





**FORETS HSS**

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## FORETS HSS – RECHERCHE PAR MATÉRIAU D'OUTIL





### Matériaux

<b>Acier rapide</b>		Un acier rapide moyennement allié qui présente une bonne usinabilité et de bonnes performances. L'acier rapide présente des caractéristiques de dureté, de ténacité et de résistance à l'usure qui en font un bon choix pour une large gamme d'applications, notamment pour les forets et les tarauds.
<b>Acier rapide au cobalt</b>		Cet acier rapide contient du cobalt pour une dureté à chaud accrue. La composition du HSCo apporte une bonne combinaison de ténacité et de dureté. Il présente une bonne usinabilité et une bonne résistance à l'usure. Il convient donc à la production de forets, de tarauds, de fraises et d'alésoirs.






### Carbures

<b>Carbure et Acier rapide</b>		Le carbure et l'acier rapide sont généralement combinés grâce à un alliage de brasage à haute température qui sert d'interface. La partie coupante en carbure monobloc assure une haute résistance à la compression, une dureté et une résistance à l'usure élevée, et le corps en acier rapide apporte une bonne résistance à la flexion et ténacité.
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### Traitements superficiels

<b>Brillant (non revêtu)</b>		La finition brillante (surface non revêtue) facilite le glissement des copeaux dans les matériaux non-ferreux ou doux, les plastiques et les matériaux composites, tout en préservant le tranchant des arêtes de coupe.
<b>Combinaison brillant et traitement vapeur</b>		La combinaison de la finition brillante et du traitement vapeur apporte des avantages concrets : la surface plus poreuse de l'oxyde bleu attire et retient le fluide de coupe dans le trou tandis que la surface brillante facilite l'évacuation des copeaux. Cette combinaison s'obtient par meulage de la surface brillante après traitement vapeur.
<b>Traitement vapeur</b>		Le traitement vapeur apporte une finition de surface bleue particulièrement adhérente pour retenir le fluide de coupe et éviter que les copeaux ne se collent à l'outil. Il contribue donc à lutter contre la formation d'arêtes rapportées. Le traitement vapeur peut être appliqué sur n'importe quel outil brillant, mais il apporte de meilleurs résultats sur les forets et les tarauds.
<b>Finition bronze</b>		La finition bronze est créée par une couche fine et régulière d'oxyde de bronze sur toute la surface de l'outil. Similaire au traitement vapeur, elle évite que les copeaux ne se collent à l'outil et facilite l'évacuation des copeaux. Cette finition peut être appliquée à tous les outils brillants et peut être combinée avec le traitement vapeur (pour certains outils).

### Revêtements de surface

<b>Brillant et TiN (revêtement de pointe)</b>		Le nitrure de titane est un revêtement céramique de couleur or appliqué par dépôt physique en phase vapeur (PVD). Une dureté élevée, associée à un faible frottement, permet d'augmenter la durée de vie des outils ou d'améliorer les performances de coupe par rapport à des outils non revêtus.
<b>Nitrure de titane (TiN)</b>		Le nitrure de titane est un revêtement céramique de couleur or appliqué par dépôt physique en phase vapeur (PVD). Une dureté élevée, associée à un faible frottement, permet d'augmenter la durée de vie des outils ou d'améliorer les performances de coupe par rapport à des outils non revêtus.
<b>Nitrure de titane aluminium (TiAlN, TiAlN-Top et X-CEED)</b>	 	Le nitrure de titane aluminium est un revêtement céramique multi-couche appliqué par procédé PVD. Il confère une ténacité et une stabilité à l'oxydation élevées. Ces propriétés en font un matériau idéal pour des vitesses et avances plus élevées, tout en améliorant la durée de vie des outils. Le TiAlN est utilisé dans le perçage, le taraudage et le fraisage. Il peut également convenir aux usinages sans refroidissement. Le revêtement TiAlN-Top est identique au TiAlN, mais il subit un traitement après revêtement pour lisser les imperfections, améliorer le flux de copeaux et réduire la formation d'arêtes rapportées.
<b>Alcrona (Alcrona-Top)</b>		Les revêtements de la famille Alcrona (AlCrN) sont en nitrure de chrome aluminium ; ils sont principalement utilisés pour les fraises. Les deux propriétés spécifiques de ces revêtements sont une grande dureté à chaud et une résistance à l'oxydation élevée. Appliquées aux outils destinés à des usinages sous fortes contraintes mécaniques et thermiques, ces propriétés se traduisent par une résistance supérieure à l'usure. Plusieurs niveaux ou versions particulières de ces revêtements sont disponibles pour divers outils et applications.

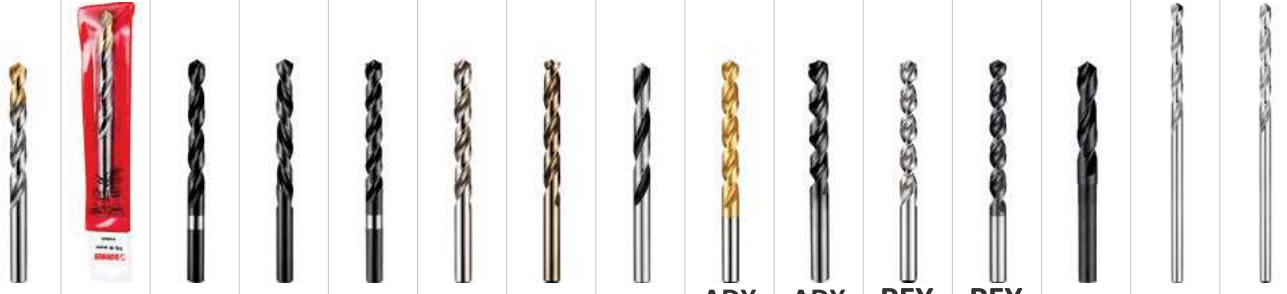


Code de matériau du corps (BMC)		HSS-E	HSS	HSS	HSS	HSS	HSS	HSS-E	HSS-E	HSS	HSS HM	HSS-E	HSS-E	HSS-E
Groupe standard de base (BSG)			DIN 1897	DIN 1897	DIN 1897	DIN 1897	DIN ANSI	DIN 1897	DIN 1897	DIN 1897	DIN 8037	DIN 1899	DIN ANSI	DIN ANSI
Rapport longueur utile diamètre (ULDR)		1×D	1.25×D	1×D	1.5×D	2.5×D	2.5×D	2.5×D	2.5×D	2.5×D	2.5×D	2.5×D	3×D	3×D
Angle d'application		180°	120°	90°/120°	120°	135°	135°	130°	135°	130°	118°	118°	130°	130°
Revêtement														
Queue														
Forme d'hélice														
Sens (direction de coupe)														
Propriété d'alimentation en liquide de coupe (CSP)														
									ADX			PFX	PFX	
Code de famille de produits		A723	A119	A122	A123	A120	A022	A620	A117	A520	A124	A720	A920	A921
		6.00 - 8.00	3.30 - 5.10	6.00 - 20.00	3/32 - 1/4	0.50 - 25.00	0.50 - 16.00	2.50 - 13.00	1.00 - 13.00	3.00 - 13.00	3.00 - 16.00	0.15 - 1.40	1.00 - 20.00	2.50 - 16.00
P	P1	■	■	■	■	■	■	■	■	■	■	■	■	■
	P2	■	■	■	■	■	■	■	■	■	■	■	■	■
	P3	■	■	■	■	■	■	■	■	■	■	■	■	■
	P4	■	■	■	■	■	■	■	■	■	■	■	■	■
M	M1		■	■	■	■	■	■	■	■	■	■	■	■
	M2		■	■	■	■	■	■	■	■	■	■	■	■
	M3		■	■	■	■	■	■	■	■	■	■	■	■
	M4		■	■	■	■	■	■	■	■	■	■	■	■
K	K1			■	■	■	■	■	■	■	■	■	■	■
	K2			■	■	■	■	■	■	■	■	■	■	■
	K3			■	■	■	■	■	■	■	■	■	■	■
	K4			■	■	■	■	■	■	■	■	■	■	■
	K5			■	■	■	■	■	■	■	■	■	■	■
N	N1		■	■	■	■	■	■	■	■	■	■	■	■
	N2		■	■	■	■	■	■	■	■	■	■	■	■
	N3		■	■	■	■	■	■	■	■	■	■	■	■
	N4		■	■	■	■	■	■	■	■	■	■	■	■
	N5													
S	S1		■	■	■	■	■	■	■	■	■	■	■	■
	S2		■	■	■	■	■	■	■	■	■	■	■	■
	S3		■	■	■	■	■	■	■	■	■	■	■	■
	S4		■	■	■	■	■	■	■	■	■	■	■	■
H	H1													
	H2													
	H3													
	H4													

■ Utilisation principale    ■ Utilisation possible



HSS	HSS	HSS	HSS	HSS	HSS-E	HSS-E	HSS HM	HSS	HSS-E	HSS-E	HSS-E	HSS	HSS	HSS	
DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DORNER	DIN ANSI	DIN ANSI	DORNER	NAS 907	NAS 907
4xD	4xD	4xD	4xD	4xD	4xD	4xD	4xD	4xD	4xD	5xD	6xD	6xD	4xD	4xD	4xD
118°	118°	118°	118°	135°	130°	135°	118°	130°	130°	130°	130°	130°	118°	135°	118°
TiN-Tip	TiN-Tip	ST	ST	ST	Bright	Bronze	Bright ST	TiN	TiAlN Top	Bright	Alcrona Top	ST	Bright	Bright	Bright
λ20-35°	λ20-35°	λ20-35°	λ20-35°	λ>35°	VA	λ20-35°	λ20-35°	λ32-40°	λ>35°	λ>35°	λ>35°	λ20-35°	λ20-35°	λ20-35°	λ20-35°
R	R	R	L	R	R	R	R	R	R	R	R	R	R	R	R























































ADX ADX PFX PFX

A002	A002S	A100	A101	A108	A147	A777	A160	A510	A553	A900	A901	A170	A243	A244
1.00 - 16.00	2.00 - 13.00	0.20 - 20.00	1.00 - 12.00	1.00 - 16.00	0.30 - 15.0	0.30 - 16.00	4.00 - 16.00	3.00 - 14.00	5.00 - 20.00	1.00 - 20.00	1.50 - 16.00	13.00 - 1.1/2	3/32 - 1/4	1/8 - 1/4
96	98	99	103	104	106	108	110	111	113	114	116	118	120	121

P1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K5	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N5	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
H1															
H2															
H3															
H4															

■ Utilisation principale    ■ Utilisation possible



Code de matériau du corps (BMC)		HSS	HSS-E	HSS-E	HSS	HSS-E	HSS-E	HSS-E	HSS	HSS	HSS-E	HSS HM	HSS	HSS
Groupe standard de base (BSG)		DIN 340	DIN ANSI	DIN ANSI	BS 328	DIN 1869-1	DIN 1869-2	DIN 1869-3	DIN 345	DIN 345	DIN 345	DIN 345	DIN 341	DIN 1870(1)
Rapport longueur utile diamètre (ULDR)		6×D	10×D	10×D	10×D	15×D	20×D	25×D	4×D	4×D	4×D	4×D	6×D	10×D
Angle d'application		118°	130°	130°	118°	130°	130°	130°	118°	118°	118°	118°	118°	118°
Revêtement		ST	Bright	Alcrona Top	ST	Bright	Bright	Bright	ST	TiN	Bronze	Bright ST	ST	ST
Queue														
Forme d'hélice		$\lambda > 20-35^\circ$	$\lambda > 35^\circ$	$\lambda > 35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 35^\circ$	$\lambda > 35^\circ$	$\lambda > 35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 20-35^\circ$	$\lambda > 20-35^\circ$
Sens (direction de coupe)														
Propriété d'alimentation en liquide de coupe (CSP)														
Code de famille de produits		<b>A110</b>	<b>A940</b>	<b>A941</b>	<b>A125</b>	<b>A976</b>	<b>A977</b>	<b>A978</b>	<b>A130</b>	<b>A530</b>	<b>A730</b>	<b>A166</b>	<b>A350</b>	<b>A345</b>
		0.50 - 1"	1.00 - 20.00	1.00 - 16.00	1.40 - 1"	1.50 - 14.00	1.50 - 14.00	3.00 - 10.00	3.00 - 50.80	8.50 - 40.00	10.00 - 32.00	10.00 - 33.00	5.00 - 50.00	8.00 - 50.00
		 122	 124	 126	 128	 130	 132	 133	 134	 140	 141	 143	 144	 146
<b>P</b>	P1	■	■	■	■	■	■	■	■	■	■	■	■	■
	P2	■	■	■	■	■	■	■	■	■	■	■	■	■
	P3	■	■	■	■	■	■	■	■	■	■	■	■	■
	P4	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>M</b>	M1	■	■	■	■	■	■	■	■	■	■	■	■	■
	M2	■	■	■	■	■	■	■	■	■	■	■	■	■
	M3	■	■	■	■	■	■	■	■	■	■	■	■	■
	M4	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>K</b>	K1	■	■	■	■	■	■	■	■	■	■	■	■	■
	K2	■	■	■	■	■	■	■	■	■	■	■	■	■
	K3	■	■	■	■	■	■	■	■	■	■	■	■	■
	K4	■	■	■	■	■	■	■	■	■	■	■	■	■
	K5	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>N</b>	N1	■	■	■	■	■	■	■	■	■	■	■	■	■
	N2	■	■	■	■	■	■	■	■	■	■	■	■	■
	N3	■	■	■	■	■	■	■	■	■	■	■	■	■
	N4	■	■	■	■	■	■	■	■	■	■	■	■	■
	N5	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>S</b>	S1	■	■	■	■	■	■	■	■	■	■	■	■	■
	S2	■	■	■	■	■	■	■	■	■	■	■	■	■
	S3	■	■	■	■	■	■	■	■	■	■	■	■	■
	S4	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>H</b>	H1													
	H2													
	H3													
	H4													

■ Utilisation principale    ■ Utilisation possible



	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS-E	HSS-E	HSS	HSS	HSS	HSS-E
	DIN 1870(1)	DIN 1870(2)	DIN 8374	DIN 8376	DIN 8377	DORNER	DORNER	DIN 333A	DIN 333A	DIN 333A	DIN 333A	DIN 333R	DORNER	BS 328	DIN 333A
	15xD	20xD	4xD	4xD	4xD	2.5xD	2.5xD	1xD	1xD	1xD	1xD	1xD	1xD	1xD	1xD
	130°	130°	90°	180°	180°	90°	180°	60°	60°	60°	60°	R	60°	60°	60°
	Bright ST	Bright ST	ST	ST	ST	ST	ST	Bright	TN	Bright	TiAlN	Bright	Bright	Bright	Bright
	$\lambda > 35^\circ$	$\lambda > 35^\circ$	$\lambda 20-35^\circ$	$\lambda 20-35^\circ$	$\lambda 20-35^\circ$										
	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	A951	A952	A400	A402	A405	A412	A413	A200	A205	A206	A266	A210	A201	A225	A237
	10.00 - 30.00	8.00 - 40.00	M3 - M10	M3 - M10	M6 - M18	M3 - M10	M3 - M10	0.50 - 12.50	1.00 - 5.00	1.00 - 5.00	1.00 - 5.00	0.50 - 10.00	0.63 - 6.00	3/64 - 5/16	1.60 - 10.00
	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162
P1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
P4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
M4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
K5	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
N5															
S1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
S4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
H1															
H2															
H3															
H4															

■ Utilisation principale    □ Utilisation possible



		HSS-E	HSS-E	HSS	HSS	HSS	HSS	HSS
		DIN 333R	DORMER	DIN ANSI	DIN 338	DIN 338	DIN 338	DIN 338
Code de matériau du corps (BMC)		HSS-E	HSS-E	HSS	HSS	HSS	HSS	HSS
Groupe standard de base (BSG)		DIN 333R	DORMER	DIN ANSI	DIN 338	DIN 338	DIN 338	DIN 338
Rapport longueur utile diamètre (ULDR)		1xD	1xD	2.5xD	4xD	4xD	4xD	4xD
Angle d'application		R	60°	135°	118°	118°	118°	118°
Revêtement		Bright	Bright	TiN-Tip	TiN-Tip	TiN-Tip	TiN-Tip	TiN-Tip
Queue		H						
Forme d'hélice				λ 20-35°	λ 20-35°	λ 20-35°	λ 20-35°	λ 20-35°
Sens (direction de coupe)		R	R	R	R	R	R	R
Propriété d'alimentation en liquide de coupe (CSP)								
Code de famille de produits		A238	A242	A088	A095	A087	A094	A089
		1.60 - 8.00	1.00 - 5.00	Set	Set	Set	Set	Set
		163	164	165	165	166	166	167
<b>P</b>	P1	■	■					
	P2	■	■					
	P3	■	■					
	P4	■	■					
<b>M</b>	M1	■	■					
	M2	■	■					
	M3	■	■					
	M4	■	■					
<b>K</b>	K1	■	■					
	K2	■	■					
	K3	■	■					
	K4	■	■					
	K5	■	■					
<b>N</b>	N1	■	■					
	N2	■	■					
	N3	■	■					
	N4	■	■					
	N5	■	■					
<b>S</b>	S1	■	■					
	S2	■	■					
	S3	■	■					
	S4	■	■					
<b>H</b>	H1							
	H2							
	H3							
	H4							

■ Utilisation principale    ■ Utilisation possible

- HSS
- DIN 338
- 4xD
- 118°
- TiN-Tip
- 
- 20-35°
- R

- HSS
- DIN 338
- 4xD
- 118°
- TiN-Tip
- 
- 20-35°
- R

- HSS
- DIN 338
- 4xD
- 118°
- ST
- 
- 20-35°
- R

- HSS
- DIN 338
- 4xD
- 118°
- ST
- 
- 20-35°
- R



	A099	A099	A199	A080	A190
	Set	Drillboy	Set	Set	Set
	📖 168	📖 168	📖 169	📖 169	📖 170
P1					
P2					
P3					
P4					
M1					
M2					
M3					
M4					
K1					
K2					
K3					
K4					
K5					
N1					
N2					
N3					
N4					
N5					
S1					
S2					
S3					
S4					
H1					
H2					
H3					
H4					





Code de matériau du corps (BMC)  
 Groupe standard de base (BSG)  
 Rapport longueur utile diamètre (ULDR)  
 Angle d'application  
 Revêtement  
 Queue  
 Forme d'hélice  
 Sens (direction de coupe)  
 Propriété d'alimentation en liquide de coupe (CSP)



Code de famille de produits

A191

A191

A188

A295

A296

M150

M151

Set

Set

Set

Set

Set

171

171

172

172

173

173

174

<b>P</b>	P1						
	P2						
	P3						
	P4						
<b>M</b>	M1						
	M2						
	M3						
	M4						
<b>K</b>	K1						
	K2						
	K3						
	K4						
	K5						
<b>N</b>	N1						
	N2						
	N3						
	N4						
	N5						
<b>S</b>	S1						
	S2						
	S3						
	S4						
<b>H</b>	H1						
	H2						
	H3						
	H4						

■ Utilisation principale    ▣ Utilisation possible



M152

174

- P1
- P2
- P3
- P4
- M1
- M2
- M3
- M4
- K1
- K2
- K3
- K4
- K5
- N1
- N2
- N3
- N4
- N5
- S1
- S2
- S3
- S4
- H1
- H2
- H3
- H4

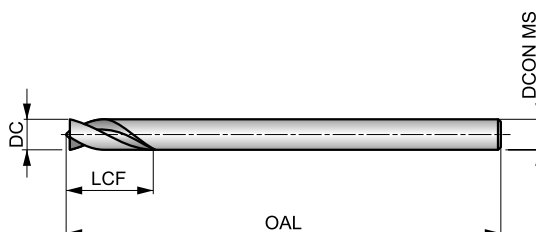


# A723



## Foret pour points de soudure en HSS-E (5% cobalt), finition avec traitement bronze

Foret doté d'une lèvre et d'une pointe saillante spécialement conçues pour enlever ou «désagréger» les zones soudées par points, généralement utilisé pour enlever les soudures dans un atelier de réparation de véhicules. La goujure courte le rend plus robuste et moins susceptible de se briser lorsqu'il est utilisé dans un appareil portatif. La finition avec traitement bronze est une fine couche d'oxyde et une indication pour le cobalt.



HSS-E	DORMER	1xD
Bronze		20-35°
R	DC h8	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 D	<b>P1.2</b> ■ 37 D	<b>P1.3</b> ■ 38 D	<b>P2.1</b> ■ 28 D	<b>P2.2</b> ■ 25 C	<b>P3.1</b> ■ 20 C	<b>P3.2</b> ■ 20 C	<b>P4.1</b> ■ 20 C
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Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A7236.0X66	6.00	0.2362	18.0	66.0	6.00
A7236.0X93	6.00	0.2362	18.0	93.0	6.00
A7238.0X79	8.00	0.3150	24.0	79.0	8.00
A7238.0X117	8.00	0.3150	24.0	117.0	8.00

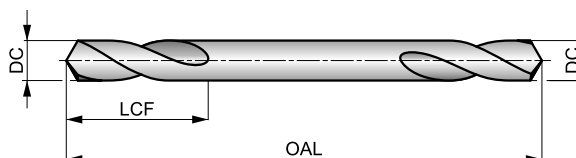


# A119



## Foret court à double pointe en HSS, finition avec traitement vapeur

Foret court à double extrémité conçu pour percer des trous dans la tôle. Possibilité d'utiliser les deux extrémités, ce qui double la durée de vie de l'outil. Pointe conventionnelle à 120° pour faciliter l'auto-centrage. Convient pour percer de nombreux matériaux. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil.



HSS	DIN 1897	1.25xD
120°	ST	
20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 31 C	<b>P1.2</b> ■ 34 C	<b>P1.3</b> ■ 35 C	<b>P2.1</b> ■ 26 C	<b>P2.2</b> ■ 23 C	<b>P2.3</b> ■ 20 C	<b>P3.1</b> ■ 12 C	<b>P3.2</b> ■ 9 C	<b>P3.3</b> ■ 8 C	<b>P4.1</b> ■ 7 C	<b>P4.2</b> ■ 6 C	<b>P4.3</b> ■ 5 A	<b>M1.1</b> ■ 21 A	<b>M1.2</b> ■ 17 A
<b>M2.1</b> ■ 18 A	<b>M2.2</b> ■ 15 A	<b>M3.1</b> ■ 8 C	<b>M3.2</b> ■ 7 C	<b>M3.3</b> ■ 6 C	<b>M4.1</b> ■ 10 A	<b>N1.1</b> ■ 33 C	<b>N1.2</b> ■ 25 C	<b>N1.3</b> ■ 17 C	<b>N2.1</b> ■ 46 C	<b>N2.2</b> ■ 42 C	<b>N2.3</b> ■ 30 C	<b>N3.1</b> ■ 56 C	<b>N3.2</b> ■ 33 C
<b>N3.3</b> ■ 17 A	<b>N4.1</b> ■ 30 I	<b>N4.2</b> ■ 35 C	<b>S1.1</b> ■ 27 A	<b>S1.2</b> ■ 12 A	<b>S1.3</b> ■ 7 A	<b>S2.1</b> ■ 5 C	<b>S2.2</b> ■ 4 C	<b>S3.1</b> ■ 4 C	<b>S3.2</b> ■ 3 C	<b>S4.1</b> ■ 3 C	<b>S4.2</b> ■ 2 C		

Foret pour perçage de tôles.

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
A1193.3	3.30	0.1299	11.0	49.0	3.30
A1193.6	3.60	0.1417	12.0	52.0	3.60
A1194.1	4.10	0.1614	14.0	55.0	4.10
A1194.2	4.20	0.1654	14.0	55.0	4.20
A1194.9	4.90	0.1929	17.0	62.0	4.90
A1195.1	5.10	0.2008	17.0	62.0	5.10

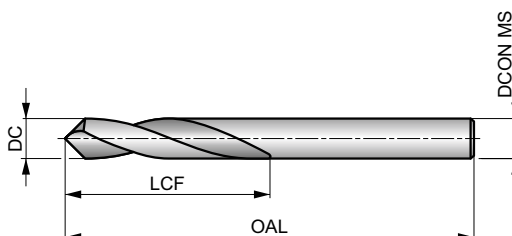


# A122



## Foret à pointer en HSS, finition brillante

Foret utilisable pour créer un trou dans le matériau à percer afin de s'assurer que le point de départ est précis. Conçu avec un angle de pointe de 90° ou 120°, ce qui vous donne deux options de pointage. Finition de surface brillante. Convient pour le perçage de nombreux matériaux.



HSS	DIN 1897	1xD
90°/120°	Bright	
$\lambda$ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 36 E	<b>P1.2</b> ■ 40 E	<b>P1.3</b> ■ 41 E	<b>P2.1</b> ■ 31 E	<b>P2.2</b> ■ 27 C	<b>P2.3</b> ■ 24 C	<b>P3.1</b> ■ 21 C	<b>P3.2</b> ■ 17 C	<b>P3.3</b> ■ 14 C	<b>P4.1</b> ■ 12 C	<b>P4.2</b> ■ 10 C	<b>P4.3</b> ■ 9 B	<b>M1.1</b> ■ 22 C	<b>M1.2</b> ■ 19 C
<b>M2.1</b> ■ 20 C	<b>M2.2</b> ■ 16 C	<b>M3.1</b> ■ 10 D	<b>M3.2</b> ■ 9 D	<b>M3.3</b> ■ 8 D	<b>M4.1</b> ■ 10 B	<b>K1.1</b> ■ 32 E	<b>K1.2</b> ■ 24 C	<b>K1.3</b> ■ 18 C	<b>K2.1</b> ■ 25 C	<b>K2.2</b> ■ 20 C	<b>K2.3</b> ■ 16 B	<b>K3.1</b> ■ 22 C	<b>K3.2</b> ■ 17 C
<b>K3.3</b> ■ 13 B	<b>K4.1</b> ■ 20 C	<b>K4.2</b> ■ 15 C	<b>K4.3</b> ■ 11 B	<b>K4.4</b> ■ 10 B	<b>K4.5</b> ■ 8 B	<b>K5.1</b> ■ 23 C	<b>K5.2</b> ■ 17 C	<b>K5.3</b> ■ 13 B	<b>N1.1</b> ■ 33 E	<b>N1.2</b> ■ 25 E	<b>N1.3</b> ■ 17 E	<b>N2.1</b> ■ 46 D	<b>N2.2</b> ■ 42 D
<b>N2.3</b> ■ 30 D	<b>N3.1</b> ■ 56 D	<b>N3.2</b> ■ 33 E	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 F	<b>N4.2</b> ■ 35 E	<b>N4.3</b> ■ 17 D	<b>S1.1</b> ■ 27 C	<b>S1.2</b> ■ 12 B	<b>S1.3</b> ■ 7 A	<b>S2.1</b> ■ 11 C	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 8 C	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 6 C	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A1226.0X90	6.00	0.2362	30.0	66.0	6.00
A1226.0X120	6.00	0.2362	30.0	66.0	6.00
A1228.0X90	8.00	0.3150	33.0	79.0	8.00
A1228.0X120	8.00	0.3150	33.0	79.0	8.00
A12210.0X90	10.00	0.3937	35.0	89.0	10.00
A12210.0X120	10.00	0.3937	35.0	89.0	10.00
A12212.0X90	12.00	0.4724	40.0	102.0	12.00
A12212.0X120	12.00	0.4724	40.0	102.0	12.00
A12216.0X90	16.00	0.6299	40.0	115.0	16.00
A12216.0X120	16.00	0.6299	40.0	115.0	16.00
A12220.0X90	20.00	0.7874	55.0	131.0	20.00
A12220.0X120	20.00	0.7874	55.0	131.0	20.00

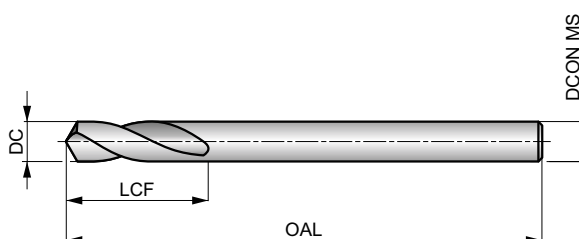


# A123



## Foret extra-court en HSS, finition avec traitement vapeur, pour tôle

Foret spécialement conçu pour le perçage des matériaux fins et de la tôle. Sa pointe à 120° et sa finition avec traitement vapeur empêche le matériau de la pièce de coller aux arêtes de coupe, ce qui donne une meilleure finition du trou et un diamètre plus précis. Convient pour le perçage dans de nombreux matériaux.



HSS	DIN 1897	1.5×D
120°	ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 36 E	<b>P1.2</b> ■ 40 E	<b>P1.3</b> ■ 41 E	<b>P2.1</b> ■ 31 E	<b>P2.2</b> ■ 27 C	<b>P2.3</b> ■ 24 C	<b>P3.1</b> ■ 21 C	<b>P3.2</b> ■ 17 C	<b>P3.3</b> ■ 14 C	<b>P4.1</b> ■ 12 C	<b>P4.2</b> ■ 10 C	<b>P4.3</b> ■ 9 B	<b>M1.1</b> ■ 22 C	<b>M1.2</b> ■ 19 C
<b>M2.1</b> ■ 20 C	<b>M2.2</b> ■ 16 C	<b>M3.1</b> ■ 10 D	<b>M3.2</b> ■ 9 D	<b>M3.3</b> ■ 8 D	<b>M4.1</b> ■ 10 B	<b>N1.1</b> ■ 33 E	<b>N1.2</b> ■ 25 E	<b>N1.3</b> ■ 17 E	<b>N2.1</b> ■ 46 D	<b>N2.2</b> ■ 42 D	<b>N2.3</b> ■ 30 D	<b>N3.1</b> ■ 56 D	<b>N3.2</b> ■ 33 E
<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 F	<b>N4.2</b> ■ 35 E	<b>N4.3</b> ■ 17 D	<b>S1.1</b> ■ 27 C	<b>S1.2</b> ■ 12 B	<b>S1.3</b> ■ 17 A	<b>S2.1</b> ■ 11 C	<b>S2.2</b> ■ 16 A	<b>S3.1</b> ■ 8 C	<b>S3.2</b> ■ 4 A	<b>S4.1</b> ■ 6 C	<b>S4.2</b> ■ 3 A	

Foret pour perçage de tôles.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1233/32S	3/32	2.38	0.0937	14.0	43.0	2.38
A1232.5S	–	2.50	0.0984	14.0	43.0	2.50
A1233.0S	–	3.00	0.1181	16.0	46.0	3.00
A1231/8S	1/8	3.18	0.1252	18.0	49.0	3.18
A1233.2S	–	3.20	0.1260	18.0	49.0	3.20
A1233.3S	–	3.30	0.1299	18.0	49.0	3.30
A1233.5S	–	3.50	0.1378	18.0	52.0	3.50
A1233.7S	–	3.70	0.1457	18.0	52.0	3.70
A1235/32S	5/32	3.97	0.1563	18.0	55.0	3.97
A1234.0S	–	4.00	0.1575	18.0	55.0	4.00
A1234.1S	–	4.10	0.1614	18.0	55.0	4.10
A1234.2S	–	4.20	0.1654	18.0	55.0	4.20
A1234.5S	–	4.50	0.1772	18.0	58.0	4.50
A1233/16S	3/16	4.76	0.1875	18.0	62.0	4.76
A1234.8S	–	4.80	0.1890	18.0	62.0	4.80
A1234.9S	–	4.90	0.1929	18.0	62.0	4.90
A1235.0S	–	5.00	0.1969	18.0	62.0	5.00
A1235.5S	–	5.50	0.2165	18.0	66.0	5.50
A1237/32S	7/32	5.56	0.2188	18.0	66.0	5.56
A1236.0S	–	6.00	0.2362	18.0	66.0	6.00
A1231/4S	1/4	6.35	0.2500	19.0	70.0	6.35

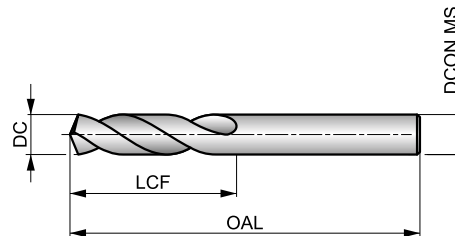


# A120



## Foret extra-court en HSS, finition avec traitement vapeur

Foret polyvalent avec finition traitement vapeur. Sa pointe à 135° avec affûtage en croix réduit les forces lors du perçage et empêche le foret de dérapier sur la surface du matériau. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. Convient pour le perçage manuel et mécanique de nombreux matériaux.



HSS	DIN 1897	2.5×D
135°	ST	
λ20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 36 J	<b>P1.2</b> ■ 40 J	<b>P1.3</b> ■ 41 J	<b>P2.1</b> ■ 31 J	<b>P2.2</b> ■ 27 G	<b>P2.3</b> ■ 24 F	<b>P3.1</b> ■ 21 G	<b>P3.2</b> ■ 17 G	<b>P3.3</b> ■ 14 F	<b>P4.1</b> ■ 12 G	<b>P4.2</b> ■ 10 F	<b>P4.3</b> ■ 9 E	<b>M1.1</b> ■ 22 F	<b>M1.2</b> ■ 19 F
<b>M2.1</b> ■ 20 F	<b>M2.2</b> ■ 16 F	<b>M3.1</b> ■ 10 H	<b>M3.2</b> ■ 9 H	<b>M3.3</b> ■ 8 H	<b>M4.1</b> ■ 10 D	<b>K1.1</b> ■ 32 J	<b>K1.2</b> ■ 24 G	<b>K1.3</b> ■ 18 G	<b>K2.1</b> ■ 25 F	<b>K2.2</b> ■ 20 F	<b>K2.3</b> ■ 16 F	<b>K3.1</b> ■ 22 F	<b>K3.2</b> ■ 17 F
<b>K3.3</b> ■ 13 F	<b>K4.1</b> ■ 20 F	<b>K4.2</b> ■ 15 F	<b>K4.3</b> ■ 11 F	<b>K4.4</b> ■ 10 F	<b>K4.5</b> ■ 8 F	<b>K5.1</b> ■ 23 F	<b>K5.2</b> ■ 17 F	<b>K5.3</b> ■ 13 F	<b>N1.1</b> ■ 33 K	<b>N1.2</b> ■ 25 K	<b>N1.3</b> ■ 17 J	<b>N2.1</b> ■ 46 I	<b>N2.2</b> ■ 42 I
<b>N2.3</b> ■ 30 I	<b>N3.1</b> ■ 64 I	<b>N3.2</b> ■ 38 J	<b>N3.3</b> ■ 19 H	<b>N4.1</b> ■ 30 K	<b>N4.2</b> ■ 35 I	<b>N4.3</b> ■ 17 G	<b>S1.1</b> ■ 27 G	<b>S1.2</b> ■ 16 E	<b>S1.3</b> ■ 8 C	<b>S2.1</b> ■ 11 F	<b>S2.2</b> ■ 6 B	<b>S3.1</b> ■ 8 F	<b>S3.2</b> ■ 4 B
<b>S4.1</b> ■ 6 F	<b>S4.2</b> ■ 3 B												

DC <= 1mm Brillant; avec pointe 118° pour DC <= 2.9mm et >= 13.0mm.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A120.5	-	0.50	0.0197	3.0	20.0	0.50
A120.6	-	0.60	0.0236	3.5	21.0	0.60
A120.7	-	0.70	0.0276	4.5	23.0	0.70
A1201/32	1/32	0.79	0.0313	5.0	24.0	0.79
A120.8	-	0.80	0.0315	5.0	24.0	0.80
A120.9	-	0.90	0.0354	5.5	25.0	0.90
A1201.0	-	1.00	0.0394	6.0	26.0	1.00
A1201.1	-	1.10	0.0433	7.0	28.0	1.10
A1203/64	3/64	1.19	0.0469	8.0	30.0	1.19
A1201.2	-	1.20	0.0472	8.0	30.0	1.20
A1201.3	-	1.30	0.0512	8.0	30.0	1.30
A1201.4	-	1.40	0.0551	9.0	32.0	1.40
A1201.5	-	1.50	0.0591	9.0	32.0	1.50
A1201/16	1/16	1.59	0.0625	10.0	34.0	1.59
A1201.6	-	1.60	0.0630	10.0	34.0	1.60
A1201.7	-	1.70	0.0669	10.0	34.0	1.70
A1201.8	-	1.80	0.0709	11.0	36.0	1.80
A1201.9	-	1.90	0.0748	11.0	36.0	1.90
A1205/64	5/64	1.98	0.0781	12.0	38.0	1.98
A1202.0	-	2.00	0.0787	12.0	38.0	2.00
A1202.1	-	2.10	0.0827	12.0	38.0	2.10
A1202.2	-	2.20	0.0866	13.0	40.0	2.20
A1202.25	-	2.25	0.0886	13.0	40.0	2.25

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1202.3	-	2.30	0.0906	13.0	40.0	2.30
A1203/32	3/32	2.38	0.0938	14.0	43.0	2.38
A1202.4	-	2.40	0.0945	14.0	43.0	2.40
A1202.5	-	2.50	0.0984	14.0	43.0	2.50
A1202.6	-	2.60	0.1024	14.0	43.0	2.60
A1202.65	-	2.65	0.1043	14.0	43.0	2.65
A1202.7	-	2.70	0.1063	16.0	46.0	2.70
A1207/64	7/64	2.78	0.1094	16.0	46.0	2.78
A1202.8	-	2.80	0.1102	16.0	46.0	2.80
A1202.9	-	2.90	0.1142	16.0	46.0	2.90
A1203.0	-	3.00	0.1181	16.0	46.0	3.00
A1203.1	-	3.10	0.1220	18.0	49.0	3.10
A1201/8	1/8	3.18	0.1252	18.0	49.0	3.18
A1203.2	-	3.20	0.1260	18.0	49.0	3.20
A1203.25	-	3.25	0.1280	18.0	49.0	3.25
A1203.3	-	3.30	0.1299	18.0	49.0	3.30
A1203.4	-	3.40	0.1339	20.0	52.0	3.40
A1203.5	-	3.50	0.1378	20.0	52.0	3.50
A1209/64	9/64	3.57	0.1406	20.0	52.0	3.57
A1203.6	-	3.60	0.1417	20.0	52.0	3.60
A1203.7	-	3.70	0.1457	20.0	52.0	3.70
A1203.8	-	3.80	0.1496	22.0	55.0	3.80
A1203.9	-	3.90	0.1535	22.0	55.0	3.90



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1205/32	5/32	3.97	0.1563	22.0	55.0	3.97
A1204.0	–	4.00	0.1575	22.0	55.0	4.00
A1204.1	–	4.10	0.1614	22.0	55.0	4.10
A1204.2	–	4.20	0.1654	22.0	55.0	4.20
A1204.3	–	4.30	0.1693	24.0	58.0	4.30
A12011/64	11/64	4.37	0.1719	24.0	58.0	4.37
A1204.4	–	4.40	0.1732	24.0	58.0	4.40
A1204.5	–	4.50	0.1772	24.0	58.0	4.50
A1204.6	–	4.60	0.1811	24.0	58.0	4.60
A1204.7	–	4.70	0.1850	24.0	58.0	4.70
A1203/16	3/16	4.76	0.1875	26.0	62.0	4.76
A1204.8	–	4.80	0.1890	26.0	62.0	4.80
A1204.9	–	4.90	0.1929	26.0	62.0	4.90
A1205.0	–	5.00	0.1969	26.0	62.0	5.00
A1205.1	–	5.10	0.2008	26.0	62.0	5.10
A12013/64	13/64	5.16	0.2031	26.0	62.0	5.16
A1205.2	–	5.20	0.2047	26.0	62.0	5.20
A1205.3	–	5.30	0.2087	26.0	62.0	5.30
A1205.4	–	5.40	0.2126	28.0	66.0	5.40
A1205.5	–	5.50	0.2165	28.0	66.0	5.50
A1207/32	7/32	5.56	0.2188	28.0	66.0	5.56
A1205.6	–	5.60	0.2205	28.0	66.0	5.60
A1205.7	–	5.70	0.2244	28.0	66.0	5.70
A1205.8	–	5.80	0.2283	28.0	66.0	5.80
A1205.9	–	5.90	0.2323	28.0	66.0	5.90
A12015/64	15/64	5.95	0.2344	28.0	66.0	5.95
A1206.0	–	6.00	0.2362	28.0	66.0	6.00
A1206.1	–	6.10	0.2402	31.0	70.0	6.10
A1206.2	–	6.20	0.2441	31.0	70.0	6.20
A1206.3	–	6.30	0.2480	31.0	70.0	6.30
A1201/4	1/4	6.35	0.2500	31.0	70.0	6.35
A1206.4	–	6.40	0.2520	31.0	70.0	6.40
A1206.5	–	6.50	0.2559	31.0	70.0	6.50
A1206.6	–	6.60	0.2598	31.0	70.0	6.60
A1206.7	–	6.70	0.2638	31.0	70.0	6.70
A1206.8	–	6.80	0.2677	34.0	74.0	6.80
A1206.9	–	6.90	0.2717	34.0	74.0	6.90
A1207.0	–	7.00	0.2756	34.0	74.0	7.00
A1207.1	–	7.10	0.2795	34.0	74.0	7.10
A1209/32	9/32	7.14	0.2813	34.0	74.0	7.14
A1207.2	–	7.20	0.2835	34.0	74.0	7.20
A1207.3	–	7.30	0.2874	34.0	74.0	7.30
A1207.4	–	7.40	0.2913	34.0	74.0	7.40
A1207.5	–	7.50	0.2953	34.0	74.0	7.50
A1207.6	–	7.60	0.2992	37.0	79.0	7.60
A1207.7	–	7.70	0.3031	37.0	79.0	7.70
A1207.8	–	7.80	0.3071	37.0	79.0	7.80
A1207.9	–	7.90	0.3110	37.0	79.0	7.90
A1205/16	5/16	7.94	0.3125	37.0	79.0	7.94
A1208.0	–	8.00	0.3150	37.0	79.0	8.00
A1208.1	–	8.10	0.3189	37.0	79.0	8.10
A1208.2	–	8.20	0.3228	37.0	79.0	8.20
A1208.3	–	8.30	0.3268	37.0	79.0	8.30
A1208.4	–	8.40	0.3307	37.0	79.0	8.40
A1208.5	–	8.50	0.3346	37.0	79.0	8.50
A1208.6	–	8.60	0.3386	40.0	84.0	8.60
A1208.7	–	8.70	0.3425	40.0	84.0	8.70
A12011/32	11/32	8.73	0.3438	40.0	84.0	8.73
A1208.8	–	8.80	0.3465	40.0	84.0	8.80
A1208.9	–	8.90	0.3504	40.0	84.0	8.90
A1209.0	–	9.00	0.3543	40.0	84.0	9.00
A1209.1	–	9.10	0.3583	40.0	84.0	9.10
A1209.2	–	9.20	0.3622	40.0	84.0	9.20
A1209.3	–	9.30	0.3661	40.0	84.0	9.30
A1209.4	–	9.40	0.3701	40.0	84.0	9.40

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1209.5	–	9.50	0.3740	40.0	84.0	9.50
A1203/8	3/8	9.52	0.3750	43.0	89.0	9.52
A1209.6	–	9.60	0.3780	43.0	89.0	9.60
A1209.7	–	9.70	0.3819	43.0	89.0	9.70
A1209.8	–	9.80	0.3858	43.0	89.0	9.80
A1209.9	–	9.90	0.3898	43.0	89.0	9.90
A12010.0	–	10.00	0.3937	43.0	89.0	10.00
A12010.1	–	10.10	0.3976	43.0	89.0	10.10
A12010.2	–	10.20	0.4016	43.0	89.0	10.20
A12010.3	–	10.30	0.4055	43.0	89.0	10.30
A12013/32	13/32	10.32	0.4063	43.0	89.0	10.32
A12010.4	–	10.40	0.4094	43.0	89.0	10.40
A12010.5	–	10.50	0.4134	43.0	89.0	10.50
A12010.6	–	10.60	0.4173	43.0	89.0	10.60
A12010.7	–	10.70	0.4213	47.0	95.0	10.70
A12010.8	–	10.80	0.4252	47.0	95.0	10.80
A12010.9	–	10.90	0.4291	47.0	95.0	10.90
A12011.0	–	11.00	0.4331	47.0	95.0	11.00
A12011.1	–	11.10	0.4370	47.0	95.0	11.10
A1207/16	7/16	11.11	0.4375	47.0	95.0	11.11
A12011.2	–	11.20	0.4409	47.0	95.0	11.20
A12011.3	–	11.30	0.4449	47.0	95.0	11.30
A12011.5	–	11.50	0.4528	47.0	95.0	11.50
A12011.6	–	11.60	0.4567	47.0	95.0	11.60
A12011.7	–	11.70	0.4606	47.0	95.0	11.70
A12011.8	–	11.80	0.4646	47.0	95.0	11.80
A12011.9	–	11.90	0.4685	51.0	102.0	11.90
A12012.0	–	12.00	0.4724	51.0	102.0	12.00
A12012.1	–	12.10	0.4764	51.0	102.0	12.10
A12012.2	–	12.20	0.4803	51.0	102.0	12.20
A12012.5	–	12.50	0.4921	51.0	102.0	12.50
A1201/2	1/2	12.70	0.5000	51.0	102.0	12.70
A12013.0	–	13.00	0.5118	51.0	102.0	13.00
A12013.5	–	13.50	0.5315	54.0	107.0	13.50
A12014.0	–	14.00	0.5512	54.0	107.0	14.00
A1209/16	9/16	14.29	0.5625	56.0	111.0	14.29
A12014.5	–	14.50	0.5709	56.0	111.0	14.50
A12015.0	–	15.00	0.5906	56.0	111.0	15.00
A12015.5	–	15.50	0.6102	58.0	115.0	15.50
A1205/8	5/8	15.88	0.6250	58.0	115.0	15.88
A12016.0	–	16.00	0.6299	58.0	115.0	16.00
A12016.5	–	16.50	0.6496	60.0	119.0	16.50
A12017.0	–	17.00	0.6693	60.0	119.0	17.00
A12011/16	11/16	17.46	0.6875	62.0	123.0	17.46
A12017.5	–	17.50	0.6890	62.0	123.0	17.50
A12018.0	–	18.00	0.7087	62.0	123.0	18.00
A12018.5	–	18.50	0.7283	64.0	127.0	18.50
A12019.0	–	19.00	0.7480	64.0	127.0	19.00
A1203/4	3/4	19.05	0.7500	66.0	131.0	19.05
A12019.5	–	19.50	0.7677	66.0	131.0	19.50
A12020.0	–	20.00	0.7874	66.0	131.0	20.00
A12020.5	–	20.50	0.8071	68.0	136.0	20.50
A12013/16	13/16	20.64	0.8125	68.0	136.0	20.64
A12021.0	–	21.00	0.8268	68.0	136.0	21.00
A12022.0	–	22.00	0.8661	70.0	141.0	22.00
A1207/8	7/8	22.22	0.8750	70.0	141.0	22.22
A12023.0	–	23.00	0.9055	72.0	146.0	23.00
A12015/16	15/16	23.81	0.9375	75.0	151.0	23.81
A12024.0	–	24.00	0.9449	75.0	151.0	24.00
A12025.0	–	25.00	0.9843	75.0	151.0	25.00



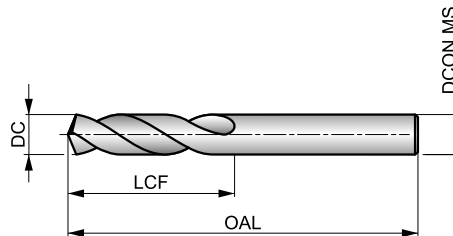


# A022



## Foret extra-court en HSS, revêtement TiN en pointe

Foret polyvalent doté d'une pointe spéciale à 135° avec affûtage en croix conçue pour faciliter l'auto-centrage lors du perçage à la main et sur machines, ce qui permet d'obtenir un trou plus précis et une meilleure qualité de finition. Convient pour le perçage de nombreux matériaux. Le revêtement TiN en pointe améliore les performances et prolonge la durée de vie de l'outil.



HSS	DIN ANSI	2.5×D
135°	TiN-Tip	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 K	<b>P1.2</b> ■ 37 K	<b>P1.3</b> ■ 38 K	<b>P2.1</b> ■ 28 K	<b>P2.2</b> ■ 25 I	<b>P2.3</b> ■ 22 G	<b>P3.1</b> ■ 24 H	<b>P3.2</b> ■ 19 H	<b>P3.3</b> ■ 16 G	<b>P4.1</b> ■ 14 H	<b>P4.2</b> ■ 12 G	<b>P4.3</b> ▣ 10 E	<b>M1.1</b> ■ 21 G	<b>M1.2</b> ■ 17 G
<b>M2.1</b> ■ 18 G	<b>M2.2</b> ■ 15 G	<b>M3.1</b> ▣ 9 I	<b>M3.2</b> ▣ 8 I	<b>M3.3</b> ▣ 7 I	<b>M4.1</b> ▣ 9 E	<b>K1.1</b> ■ 32 K	<b>K1.2</b> ■ 24 I	<b>K1.3</b> ■ 18 I	<b>K2.1</b> ■ 25 G	<b>K2.2</b> ■ 20 G	<b>K2.3</b> ▣ 16 G	<b>K3.1</b> ■ 22 G	<b>K3.2</b> ■ 17 G
<b>K3.3</b> ▣ 13 G	<b>K4.1</b> ■ 20 G	<b>K4.2</b> ■ 15 G	<b>K4.3</b> ▣ 11 G	<b>K4.4</b> ▣ 10 G	<b>K4.5</b> ▣ 8 G	<b>K5.1</b> ■ 23 G	<b>K5.2</b> ■ 17 G	<b>K5.3</b> ▣ 13 G	<b>N1.1</b> ■ 40 F	<b>N1.2</b> ■ 30 F	<b>N1.3</b> ■ 20 K	<b>N2.1</b> ■ 49 J	<b>N2.2</b> ■ 44 J
<b>N2.3</b> ■ 32 J	<b>N3.1</b> ▣ 16 I	<b>N3.2</b> ▣ 38 K	<b>N3.3</b> ▣ 19 H	<b>N4.1</b> ▣ 30 K	<b>N4.2</b> ▣ 35 I	<b>N4.3</b> ▣ 17 G	<b>S1.1</b> ■ 25 I	<b>S1.2</b> ▣ 14 F	<b>S1.3</b> ▣ 8 C	<b>S2.1</b> ▣ 11 F	<b>S2.2</b> ▣ 16 B	<b>S3.1</b> ▣ 8 F	<b>S3.2</b> ▣ 4 B
<b>S4.1</b> ▣ 16 F	<b>S4.2</b> ▣ 13 B												

DC < 2mm Brillant; DC >= 2mm revêtu TiN en pointe avec affûtage en croix.  
Les produits de cette série sont également disponibles en coffret. Voir A088.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A022.5	—	0.50	0.0197	3.0	20.0	0.50
A022.6	—	0.60	0.0236	3.5	21.0	0.60
A022.7	—	0.70	0.0276	4.5	23.0	0.70
A0221/32	1/32	0.79	0.0313	13.0	35.0	0.79
A022.8	—	0.80	0.0315	5.0	24.0	0.80
A022.9	—	0.90	0.0354	5.5	25.0	0.90
A0221.0	—	1.00	0.0394	6.0	26.0	1.00
A0221.1	—	1.10	0.0433	7.0	28.0	1.10
A0223/64	3/64	1.19	0.0469	13.0	35.0	1.19
A0221.2	—	1.20	0.0472	8.0	30.0	1.20
A0221.3	—	1.30	0.0512	8.0	30.0	1.30
A0221.4	—	1.40	0.0551	9.0	32.0	1.40
A0221.5	—	1.50	0.0591	9.0	32.0	1.50
A0221/16	1/16	1.59	0.0625	16.0	41.0	1.59
A0221.6	—	1.60	0.0630	10.0	34.0	1.60
A0221.7	—	1.70	0.0669	10.0	34.0	1.70
A0221.8	—	1.80	0.0709	11.0	36.0	1.80
A0221.9	—	1.90	0.0748	11.0	36.0	1.90
A0225/64	5/64	1.98	0.0781	17.0	43.0	1.98
A0222.0	—	2.00	0.0787	12.0	38.0	2.00
A0222.1	—	2.10	0.0827	12.0	38.0	2.10
A0222.2	—	2.20	0.0866	13.0	40.0	2.20

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A0222.25	—	2.25	0.0886	13.0	40.0	2.25
A0222.3	—	2.30	0.0906	13.0	40.0	2.30
A0223/32	3/32	2.38	0.0938	20.0	45.0	2.38
A0222.4	—	2.40	0.0945	14.0	43.0	2.40
A0222.5	—	2.50	0.0984	14.0	43.0	2.50
A0222.6	—	2.60	0.1024	14.0	43.0	2.60
A0222.65	—	2.65	0.1043	14.0	43.0	2.65
A0222.7	—	2.70	0.1063	16.0	46.0	2.70
A0227/64	7/64	2.78	0.1094	22.0	47.0	2.78
A0222.8	—	2.80	0.1102	16.0	46.0	2.80
A0222.9	—	2.90	0.1142	16.0	46.0	2.90
A0223.0	—	3.00	0.1181	16.0	46.0	3.00
A0223.1	—	3.10	0.1220	18.0	49.0	3.10
A0221/8	1/8	3.18	0.1250	23.0	49.0	3.18
A0223.2	—	3.20	0.1260	18.0	49.0	3.20
A0223.25	—	3.25	0.1280	18.0	49.0	3.25
A0223.3	—	3.30	0.1299	18.0	49.0	3.30
A0223.4	—	3.40	0.1339	20.0	52.0	3.40
A0223.5	—	3.50	0.1378	20.0	52.0	3.50
A0229/64	9/64	3.57	0.1406	25.0	50.0	3.57
A0223.6	—	3.60	0.1417	20.0	52.0	3.60
A0223.7	—	3.70	0.1457	20.0	52.0	3.70



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A0223.8	–	3.80	0.1496	22.0	55.0	3.80
A0223.9	–	3.90	0.1535	22.0	55.0	3.90
A0225/32	5/32	3.97	0.1563	26.0	53.0	3.97
A0224.0	–	4.00	0.1575	22.0	55.0	4.00
A0224.1	–	4.10	0.1614	22.0	55.0	4.10
A0224.2	–	4.20	0.1654	22.0	55.0	4.20
A0224.3	–	4.30	0.1693	24.0	58.0	4.30
A02211/64	11/64	4.37	0.1719	28.0	55.0	4.37
A0224.4	–	4.40	0.1732	24.0	58.0	4.40
A0224.5	–	4.50	0.1772	24.0	58.0	4.50
A0224.6	–	4.60	0.1811	24.0	58.0	4.60
A0224.7	–	4.70	0.1850	24.0	58.0	4.70
A0223/16	3/16	4.76	0.1875	30.0	57.0	4.76
A0224.8	–	4.80	0.1890	26.0	62.0	4.80
A0224.9	–	4.90	0.1929	26.0	62.0	4.90
A0225.0	–	5.00	0.1969	26.0	62.0	5.00
A0225.1	–	5.10	0.2008	26.0	62.0	5.10
A02213/64	13/64	5.16	0.2031	31.0	58.0	5.16
A0225.2	–	5.20	0.2047	26.0	62.0	5.20
A0225.3	–	5.30	0.2087	26.0	62.0	5.30
A0225.4	–	5.40	0.2126	28.0	66.0	5.40
A0225.5	–	5.50	0.2165	28.0	66.0	5.50
A0227/32	7/32	5.56	0.2188	33.0	61.0	5.56
A0225.6	–	5.60	0.2205	28.0	66.0	5.60
A0225.7	–	5.70	0.2244	28.0	66.0	5.70
A0225.8	–	5.80	0.2283	28.0	66.0	5.80
A0225.9	–	5.90	0.2323	28.0	66.0	5.90
A02215/64	15/64	5.95	0.2344	34.0	63.0	5.95
A0226.0	–	6.00	0.2362	28.0	66.0	6.00
A0226.1	–	6.10	0.2402	31.0	70.0	6.10
A0226.2	–	6.20	0.2441	31.0	70.0	6.20
A0226.3	–	6.30	0.2480	31.0	70.0	6.30
A0221/4	1/4	6.35	0.2500	36.0	65.0	6.35
A0226.4	–	6.40	0.2520	31.0	70.0	6.40
A0226.5	–	6.50	0.2559	31.0	70.0	6.50
A0226.6	–	6.60	0.2598	31.0	70.0	6.60
A0226.7	–	6.70	0.2638	31.0	70.0	6.70
A0226.8	–	6.80	0.2677	34.0	74.0	6.80
A0226.9	–	6.90	0.2717	34.0	74.0	6.90
A0227.0	–	7.00	0.2756	34.0	74.0	7.00
A0227.1	–	7.10	0.2795	34.0	74.0	7.10
A0229/32	9/32	7.14	0.2813	40.0	70.0	7.14
A0227.2	–	7.20	0.2835	34.0	74.0	7.20
A0227.3	–	7.30	0.2874	34.0	74.0	7.30
A0227.4	–	7.40	0.2913	34.0	74.0	7.40
A0227.5	–	7.50	0.2953	34.0	74.0	7.50
A0227.6	–	7.60	0.2992	37.0	79.0	7.60
A0227.7	–	7.70	0.3031	37.0	79.0	7.70
A0227.8	–	7.80	0.3071	37.0	79.0	7.80
A0227.9	–	7.90	0.3110	37.0	79.0	7.90
A0225/16	5/16	7.94	0.3125	43.0	73.0	7.94
A0228.0	–	8.00	0.3150	37.0	79.0	8.00
A0228.1	–	8.10	0.3189	37.0	79.0	8.10
A0228.2	–	8.20	0.3228	37.0	79.0	8.20

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A0228.3	–	8.30	0.3268	37.0	79.0	8.30
A0228.4	–	8.40	0.3307	37.0	79.0	8.40
A0228.5	–	8.50	0.3346	37.0	79.0	8.50
A0228.6	–	8.60	0.3386	40.0	84.0	8.60
A0228.7	–	8.70	0.3425	40.0	84.0	8.70
A02211/32	11/32	8.73	0.3438	45.0	78.0	8.73
A0228.8	–	8.80	0.3465	40.0	84.0	8.80
A0228.9	–	8.90	0.3504	40.0	84.0	8.90
A0229.0	–	9.00	0.3543	40.0	84.0	9.00
A0229.1	–	9.10	0.3583	40.0	84.0	9.10
A0229.2	–	9.20	0.3622	40.0	84.0	9.20
A0229.3	–	9.30	0.3661	40.0	84.0	9.30
A0229.4	–	9.40	0.3701	40.0	84.0	9.40
A0229.5	–	9.50	0.3740	40.0	84.0	9.50
A0223/8	3/8	9.52	0.3750	48.0	81.0	9.52
A0229.6	–	9.60	0.3780	43.0	89.0	9.60
A0229.7	–	9.70	0.3819	43.0	89.0	9.70
A0229.8	–	9.80	0.3858	43.0	89.0	9.80
A0229.9	–	9.90	0.3898	43.0	89.0	9.90
A02210.0	–	10.00	0.3937	43.0	89.0	10.00
A02210.1	–	10.10	0.3976	43.0	89.0	10.10
A02210.2	–	10.20	0.4016	43.0	89.0	10.20
A02210.3	–	10.30	0.4055	43.0	89.0	10.30
A02213/32	13/32	10.32	0.4063	51.0	86.0	10.32
A02210.4	–	10.40	0.4094	43.0	89.0	10.40
A02210.5	–	10.50	0.4134	43.0	89.0	10.50
A02210.6	–	10.60	0.4173	43.0	89.0	10.60
A02210.7	–	10.70	0.4213	47.0	95.0	10.70
A02210.8	–	10.80	0.4252	47.0	95.0	10.80
A02210.9	–	10.90	0.4291	47.0	95.0	10.90
A02211.0	–	11.00	0.4331	47.0	95.0	11.00
A02211.1	–	11.10	0.4370	47.0	95.0	11.10
A0227/16	7/16	11.11	0.4375	54.0	89.0	11.11
A02211.2	–	11.20	0.4409	47.0	95.0	11.20
A02211.3	–	11.30	0.4449	47.0	95.0	11.30
A02211.5	–	11.50	0.4528	47.0	95.0	11.50
A02211.6	–	11.60	0.4567	47.0	95.0	11.60
A02211.7	–	11.70	0.4606	47.0	95.0	11.70
A02211.8	–	11.80	0.4646	47.0	95.0	11.80
A02211.9	–	11.90	0.4685	51.0	102.0	11.90
A02212.0	–	12.00	0.4724	51.0	102.0	12.00
A02212.1	–	12.10	0.4764	51.0	102.0	12.10
A02212.2	–	12.20	0.4803	51.0	102.0	12.20
A02212.5	–	12.50	0.4921	51.0	102.0	12.50
A0221/2	1/2	12.70	0.5000	60.0	98.0	12.70
A02213.0	–	13.00	0.5118	51.0	102.0	13.00
A02213.5	–	13.50	0.5315	54.0	107.0	13.50
A02214.0	–	14.00	0.5512	54.0	107.0	14.00
A0229/16	9/16	14.29	0.5625	67.0	105.0	14.29
A02214.5	–	14.50	0.5709	56.0	111.0	14.50
A02215.0	–	15.00	0.5906	56.0	111.0	15.00
A02215.5	–	15.50	0.6102	58.0	115.0	15.50
A0225/8	5/8	15.88	0.6250	73.0	111.0	15.88
A02216.0	–	16.00	0.6299	58.0	115.0	16.00

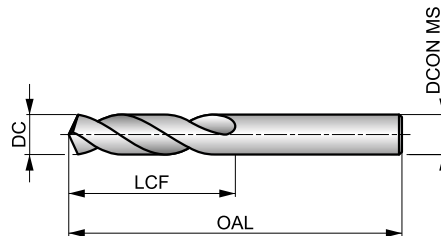


# A620



## Foret extra-court en HSS-E (5% cobalt), finition avec traitement bronze

Foret avec un angle de pointe à 130° qui facilite l'auto-centrage et réduit les forces de coupe. La finition avec traitement bronze est une fine couche d'oxyde et c'est une indication pour le cobalt. Convient pour percer de nombreux matériaux. Ne doit pas être utilisé dans des appareils portatifs.



HSS-E	DIN 1897	2.5×D
130°	Bronze	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 H	<b>P1.2</b> ■ 45 H	<b>P1.3</b> ■ 46 H	<b>P2.1</b> ■ 34 H	<b>P2.2</b> ■ 30 G	<b>P2.3</b> ■ 27 F	<b>P3.1</b> ■ 27 G	<b>P3.2</b> ■ 21 G	<b>P3.3</b> ■ 18 F	<b>P4.1</b> ■ 16 G	<b>P4.2</b> ■ 13 F	<b>P4.3</b> ■ 11 E	<b>M1.1</b> ■ 30 F	<b>M1.2</b> ■ 26 F
<b>M2.1</b> ■ 27 F	<b>M2.2</b> ■ 22 F	<b>M3.1</b> ■ 13 H	<b>M3.2</b> ■ 11 H	<b>M3.3</b> ■ 10 H	<b>M4.1</b> ■ 15 D	<b>K1.1</b> ■ 34 K	<b>K1.2</b> ■ 25 F	<b>K1.3</b> ■ 19 F	<b>K2.1</b> ■ 27 F	<b>K2.2</b> ■ 22 F	<b>K2.3</b> ■ 18 F	<b>K3.1</b> ■ 24 F	<b>K3.2</b> ■ 18 F
<b>K3.3</b> ■ 15 F	<b>K4.1</b> ■ 22 F	<b>K4.2</b> ■ 17 F	<b>K4.3</b> ■ 12 F	<b>K4.4</b> ■ 11 F	<b>K4.5</b> ■ 9 F	<b>K5.1</b> ■ 25 F	<b>K5.2</b> ■ 19 F	<b>K5.3</b> ■ 15 F	<b>N1.1</b> ■ 40 K	<b>N1.2</b> ■ 30 K	<b>N1.3</b> ■ 20 J	<b>N2.1</b> ■ 49 I	<b>N2.2</b> ■ 44 I
<b>N2.3</b> ■ 32 I	<b>N3.1</b> ■ 68 J	<b>N3.2</b> ■ 40 K	<b>N3.3</b> ■ 20 I	<b>N4.1</b> ■ 40 L	<b>N4.2</b> ■ 32 K	<b>N4.3</b> ■ 18 I	<b>S1.1</b> ■ 30 G	<b>S1.2</b> ■ 18 F	<b>S1.3</b> ■ 10 C	<b>S2.1</b> ■ 12 F	<b>S2.2</b> ■ 8 C	<b>S3.1</b> ■ 9 F	<b>S3.2</b> ■ 6 C
<b>S4.1</b> ■ 17 F	<b>S4.2</b> ■ 5 C												

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A6202.5	2.50	0.0984	14.0	43.0	2.50
A6202.6	2.60	0.1024	14.0	43.0	2.60
A6202.7	2.70	0.1063	16.0	46.0	2.70
A6202.8	2.80	0.1102	16.0	46.0	2.80
A6202.9	2.90	0.1142	16.0	46.0	2.90
A6203.0	3.00	0.1181	16.0	46.0	3.00
A6203.1	3.10	0.1220	18.0	49.0	3.10
A6203.2	3.20	0.1260	18.0	49.0	3.20
A6203.3	3.30	0.1299	18.0	49.0	3.30
A6203.4	3.40	0.1339	20.0	52.0	3.40
A6203.5	3.50	0.1378	20.0	52.0	3.50
A6203.6	3.60	0.1417	20.0	52.0	3.60
A6203.7	3.70	0.1457	20.0	52.0	3.70
A6203.8	3.80	0.1496	22.0	55.0	3.80
A6203.9	3.90	0.1535	22.0	55.0	3.90
A6204.0	4.00	0.1575	22.0	55.0	4.00
A6204.1	4.10	0.1614	22.0	55.0	4.10
A6204.2	4.20	0.1654	22.0	55.0	4.20
A6204.3	4.30	0.1693	24.0	58.0	4.30
A6204.4	4.40	0.1732	24.0	58.0	4.40
A6204.5	4.50	0.1772	24.0	58.0	4.50
A6204.6	4.60	0.1811	24.0	58.0	4.60
A6204.7	4.70	0.1850	24.0	58.0	4.70
A6204.8	4.80	0.1890	26.0	62.0	4.80

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A6204.9	4.90	0.1929	26.0	62.0	4.90
A6205.0	5.00	0.1969	26.0	62.0	5.00
A6205.1	5.10	0.2008	26.0	62.0	5.10
A6205.2	5.20	0.2047	26.0	62.0	5.20
A6205.3	5.30	0.2087	26.0	62.0	5.30
A6205.4	5.40	0.2126	28.0	66.0	5.40
A6205.5	5.50	0.2165	28.0	66.0	5.50
A6205.6	5.60	0.2205	28.0	66.0	5.60
A6205.7	5.70	0.2244	28.0	66.0	5.70
A6205.8	5.80	0.2283	28.0	66.0	5.80
A6205.9	5.90	0.2323	28.0	66.0	5.90
A6206.0	6.00	0.2362	28.0	66.0	6.00
A6206.1	6.10	0.2402	31.0	70.0	6.10
A6206.2	6.20	0.2441	31.0	70.0	6.20
A6206.3	6.30	0.2480	31.0	70.0	6.30
A6206.4	6.40	0.2520	31.0	70.0	6.40
A6206.5	6.50	0.2559	31.0	70.0	6.50
A6206.6	6.60	0.2598	31.0	70.0	6.60
A6206.7	6.70	0.2638	31.0	70.0	6.70
A6206.8	6.80	0.2677	34.0	74.0	6.80
A6206.9	6.90	0.2717	34.0	74.0	6.90
A6207.0	7.00	0.2756	34.0	74.0	7.00
A6207.1	7.10	0.2795	34.0	74.0	7.10
A6207.2	7.20	0.2835	34.0	74.0	7.20



Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
A6207.3	7.30	0.2874	34.0	74.0	7.30
A6207.4	7.40	0.2913	34.0	74.0	7.40
A6207.5	7.50	0.2953	34.0	74.0	7.50
A6207.6	7.60	0.2992	37.0	79.0	7.60
A6207.7	7.70	0.3031	37.0	79.0	7.70
A6207.8	7.80	0.3071	37.0	79.0	7.80
A6207.9	7.90	0.3110	37.0	79.0	7.90
A6208.0	8.00	0.3150	37.0	79.0	8.00
A6208.1	8.10	0.3189	37.0	79.0	8.10
A6208.2	8.20	0.3228	37.0	79.0	8.20
A6208.3	8.30	0.3268	37.0	79.0	8.30
A6208.4	8.40	0.3307	37.0	79.0	8.40
A6208.5	8.50	0.3346	37.0	79.0	8.50
A6208.6	8.60	0.3386	40.0	84.0	8.60
A6208.7	8.70	0.3425	40.0	84.0	8.70
A6208.8	8.80	0.3465	40.0	84.0	8.80
A6208.9	8.90	0.3504	40.0	84.0	8.90
A6209.0	9.00	0.3543	40.0	84.0	9.00
A6209.1	9.10	0.3583	40.0	84.0	9.10
A6209.2	9.20	0.3622	40.0	84.0	9.20

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
A6209.3	9.30	0.3661	40.0	84.0	9.30
A6209.4	9.40	0.3701	40.0	84.0	9.40
A6209.5	9.50	0.3740	40.0	84.0	9.50
A6209.6	9.60	0.3780	43.0	89.0	9.60
A6209.7	9.70	0.3819	43.0	89.0	9.70
A6209.8	9.80	0.3858	43.0	89.0	9.80
A6209.9	9.90	0.3898	43.0	89.0	9.90
A62010.0	10.00	0.3937	43.0	89.0	10.00
A62010.2	10.20	0.4016	43.0	89.0	10.20
A62010.3	10.30	0.4055	43.0	89.0	10.30
A62010.4	10.40	0.4094	43.0	89.0	10.40
A62010.5	10.50	0.4134	43.0	89.0	10.50
A62010.8	10.80	0.4252	47.0	95.0	10.80
A62011.0	11.00	0.4331	47.0	95.0	11.00
A62011.5	11.50	0.4528	47.0	95.0	11.50
A62012.0	12.00	0.4724	51.0	102.0	12.00
A62012.2	12.20	0.4803	51.0	102.0	12.20
A62012.5	12.50	0.4921	51.0	102.0	12.50
A62012.8	12.80	0.5039	51.0	102.0	12.80
A62013.0	13.00	0.5118	51.0	102.0	13.00

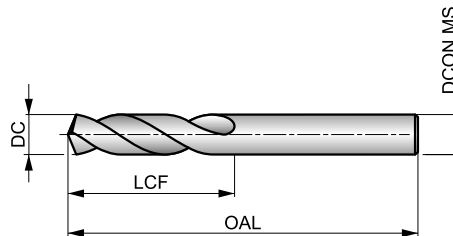


# A117



## Foret extra-court en HSS-E (8% cobalt), finition avec traitement bronze

Foret recommandé pour une utilisation dans des matériaux et des applications difficiles. sa pointe à 135° avec affûtage en croix facilite l'auto-centrage et réduit également les forces de coupe. Fiable pour produire un trou précis et une finition de qualité. La finition avec traitement bronze est une fine couche d'oxyde et c'est une indication pour le cobalt.



HSS-E	DIN 1897	2.5×D
135°	Bronze	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 H	<b>P1.2</b> ■ 45 H	<b>P1.3</b> ■ 46 H	<b>P2.1</b> ■ 34 H	<b>P2.2</b> ■ 30 G	<b>P2.3</b> ■ 27 F	<b>P3.1</b> ■ 27 G	<b>P3.2</b> ■ 21 G	<b>P3.3</b> ■ 18 F	<b>P4.1</b> ■ 16 G	<b>P4.2</b> ■ 13 F	<b>P4.3</b> ■ 11 E	<b>M1.1</b> ■ 30 F	<b>M1.2</b> ■ 26 F
<b>M2.1</b> ■ 27 F	<b>M2.2</b> ■ 22 F	<b>M3.1</b> ■ 13 H	<b>M3.2</b> ■ 11 H	<b>M3.3</b> ■ 10 H	<b>M4.1</b> ■ 15 D	<b>K1.1</b> ■ 34 K	<b>K1.2</b> ■ 25 F	<b>K1.3</b> ■ 19 F	<b>K2.1</b> ■ 27 F	<b>K2.2</b> ■ 22 F	<b>K2.3</b> ■ 18 F	<b>K3.1</b> ■ 24 F	<b>K3.2</b> ■ 18 F
<b>K3.3</b> ■ 15 F	<b>K4.1</b> ■ 22 F	<b>K4.2</b> ■ 17 F	<b>K4.3</b> ■ 12 F	<b>K4.4</b> ■ 11 F	<b>K4.5</b> ■ 9 F	<b>K5.1</b> ■ 25 F	<b>K5.2</b> ■ 19 F	<b>K5.3</b> ■ 15 F	<b>N1.1</b> ■ 35 K	<b>N1.2</b> ■ 26 K	<b>N1.3</b> ■ 18 J	<b>N2.1</b> ■ 48 I	<b>N2.2</b> ■ 43 I
<b>N2.3</b> ■ 31 I	<b>N3.1</b> ■ 68 J	<b>N3.2</b> ■ 40 K	<b>N3.3</b> ■ 20 I	<b>N4.1</b> ■ 35 M	<b>N4.2</b> ■ 28 K	<b>N4.3</b> ■ 17 I	<b>S1.1</b> ■ 30 G	<b>S1.2</b> ■ 18 F	<b>S1.3</b> ■ 10 C	<b>S2.1</b> ■ 12 F	<b>S2.2</b> ■ 8 C	<b>S3.1</b> ■ 9 F	<b>S3.2</b> ■ 6 C
<b>S4.1</b> ■ 7 F	<b>S4.2</b> ■ 5 C												

DC ≤ 1.5mm avec pointe 118°; DC < 3.00 mm 5% cobalt.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1171.0	–	1.00	0.0394	6.0	26.0	1.00
A1171.1	–	1.10	0.0433	7.0	28.0	1.10
A1171.2	–	1.20	0.0472	8.0	30.0	1.20
A1171.3	–	1.30	0.0512	8.0	30.0	1.30
A1171.4	–	1.40	0.0551	9.0	32.0	1.40
A1171.5	–	1.50	0.0591	9.0	32.0	1.50
A1171.6	–	1.60	0.0630	10.0	34.0	1.60
A1171.7	–	1.70	0.0669	10.0	34.0	1.70
A1171.8	–	1.80	0.0709	11.0	36.0	1.80
A1171.9	–	1.90	0.0748	11.0	36.0	1.90
A1172.0	–	2.00	0.0787	12.0	38.0	2.00
A1172.1	–	2.10	0.0827	12.0	38.0	2.10
A1172.2	–	2.20	0.0866	13.0	40.0	2.20
A1172.3	–	2.30	0.0906	13.0	40.0	2.30
A1172.4	–	2.40	0.0945	14.0	43.0	2.40
A1172.5	–	2.50	0.0984	14.0	43.0	2.50
A1172.6	–	2.60	0.1024	14.0	43.0	2.60
A1172.7	–	2.70	0.1063	16.0	46.0	2.70
A1172.8	–	2.80	0.1102	16.0	46.0	2.80
A1172.9	–	2.90	0.1142	16.0	46.0	2.90
A1173.0	–	3.00	0.1181	16.0	46.0	3.00
A1173.1	–	3.10	0.1220	18.0	49.0	3.10
A1171/8	1/8	3.18	0.1250	18.0	49.0	3.18

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1173.2	–	3.20	0.1260	18.0	49.0	3.20
A1173.3	–	3.30	0.1299	18.0	49.0	3.30
A1173.4	–	3.40	0.1339	20.0	52.0	3.40
A1173.5	–	3.50	0.1378	20.0	52.0	3.50
A1173.6	–	3.60	0.1417	20.0	52.0	3.60
A1173.7	–	3.70	0.1457	20.0	52.0	3.70
A1173.8	–	3.80	0.1496	22.0	55.0	3.80
A1173.9	–	3.90	0.1535	22.0	55.0	3.90
A1175/32	5/32	3.97	0.1563	22.0	55.0	3.97
A1174.0	–	4.00	0.1575	22.0	55.0	4.00
A1174.1	–	4.10	0.1614	22.0	55.0	4.10
A1174.2	–	4.20	0.1654	22.0	55.0	4.20
A1174.3	–	4.30	0.1693	24.0	58.0	4.30
A1174.4	–	4.40	0.1732	24.0	58.0	4.40
A1174.5	–	4.50	0.1772	24.0	58.0	4.50
A1174.6	–	4.60	0.1811	24.0	58.0	4.60
A1174.7	–	4.70	0.1850	24.0	58.0	4.70
A1173/16	3/16	4.76	0.1875	26.0	62.0	4.76
A1174.8	–	4.80	0.1890	26.0	62.0	4.80
A1174.9	–	4.90	0.1929	26.0	62.0	4.90
A1175.0	–	5.00	0.1969	26.0	62.0	5.00
A1175.1	–	5.10	0.2008	26.0	62.0	5.10
A1175.2	–	5.20	0.2047	26.0	62.0	5.20



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1175.3	–	5.30	0.2087	26.0	62.0	5.30
A1175.4	–	5.40	0.2126	28.0	66.0	5.40
A1175.5	–	5.50	0.2165	28.0	66.0	5.50
A1175.6	–	5.60	0.2205	28.0	66.0	5.60
A1175.7	–	5.70	0.2244	28.0	66.0	5.70
A1175.8	–	5.80	0.2283	28.0	66.0	5.80
A1175.9	–	5.90	0.2323	28.0	66.0	5.90
A1176.0	–	6.00	0.2362	28.0	66.0	6.00
A1176.1	–	6.10	0.2402	31.0	70.0	6.10
A1176.2	–	6.20	0.2441	31.0	70.0	6.20
A1176.3	–	6.30	0.2480	31.0	70.0	6.30
A1171/4	1/4	6.35	0.2500	31.0	70.0	6.35
A1176.4	–	6.40	0.2520	31.0	70.0	6.40
A1176.5	–	6.50	0.2559	31.0	70.0	6.50
A1176.6	–	6.60	0.2598	31.0	70.0	6.60
A1176.7	–	6.70	0.2638	31.0	70.0	6.70
A1176.8	–	6.80	0.2677	34.0	74.0	6.80
A1176.9	–	6.90	0.2717	34.0	74.0	6.90
A1177.0	–	7.00	0.2756	34.0	74.0	7.00
A1177.1	–	7.10	0.2795	34.0	74.0	7.10
A1177.2	–	7.20	0.2835	34.0	74.0	7.20
A1177.3	–	7.30	0.2874	34.0	74.0	7.30
A1177.4	–	7.40	0.2913	34.0	74.0	7.40
A1177.5	–	7.50	0.2953	34.0	74.0	7.50
A1177.6	–	7.60	0.2992	37.0	79.0	7.60
A1177.7	–	7.70	0.3031	37.0	79.0	7.70
A1177.8	–	7.80	0.3071	37.0	79.0	7.80
A1177.9	–	7.90	0.3110	37.0	79.0	7.90
A1175/16	5/16	7.94	0.3125	37.0	79.0	7.94

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1178.0	–	8.00	0.3150	37.0	79.0	8.00
A1178.1	–	8.10	0.3189	37.0	79.0	8.10
A1178.2	–	8.20	0.3228	37.0	79.0	8.20
A1178.3	–	8.30	0.3268	37.0	79.0	8.30
A1178.4	–	8.40	0.3307	37.0	79.0	8.40
A1178.5	–	8.50	0.3346	37.0	79.0	8.50
A1178.6	–	8.60	0.3386	40.0	84.0	8.60
A1178.7	–	8.70	0.3425	40.0	84.0	8.70
A1178.8	–	8.80	0.3465	40.0	84.0	8.80
A1178.9	–	8.90	0.3504	40.0	84.0	8.90
A1179.0	–	9.00	0.3543	40.0	84.0	9.00
A1179.1	–	9.10	0.3583	40.0	84.0	9.10
A1179.2	–	9.20	0.3622	40.0	84.0	9.20
A1179.3	–	9.30	0.3661	40.0	84.0	9.30
A1179.4	–	9.40	0.3701	40.0	84.0	9.40
A1179.5	–	9.50	0.3740	40.0	84.0	9.50
A1173/8	3/8	9.52	0.3750	43.0	89.0	9.52
A1179.6	–	9.60	0.3780	43.0	89.0	9.60
A1179.7	–	9.70	0.3819	43.0	89.0	9.70
A1179.8	–	9.80	0.3858	43.0	89.0	9.80
A1179.9	–	9.90	0.3898	43.0	89.0	9.90
A11710.0	–	10.00	0.3937	43.0	89.0	10.00
A11710.2	–	10.20	0.4016	43.0	89.0	10.20
A11710.5	–	10.50	0.4134	43.0	89.0	10.50
A11711.0	–	11.00	0.4331	47.0	95.0	11.00
A11711.5	–	11.50	0.4528	47.0	95.0	11.50
A11712.0	–	12.00	0.4724	51.0	102.0	12.00
A1171/2	1/2	12.70	0.5000	51.0	102.0	12.70
A11713.0	–	13.00	0.5118	51.0	102.0	13.00



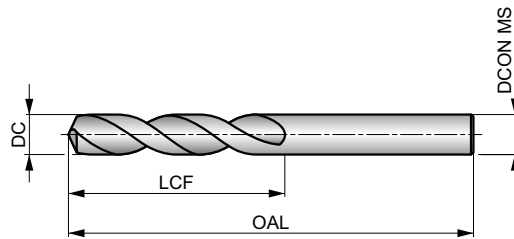
# A520



## Foret extra-court ADX en HSS, revêtement TiN

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H9). Sa pointe amincie à 130° facilite l'auto-centrage et réduit les efforts de coupe. Ce foret doit être utilisé sur des machines CNC uniquement. Le revêtement TiN prolonge la durée de vie de l'outil.

## ADX



HSS	DIN 1897	2.5×D
130°	TiN	
λ 32-40°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 53 M	<b>P1.2</b> ■ 59 M	<b>P1.3</b> ■ 61 M	<b>P2.1</b> ■ 45 M	<b>P2.2</b> ■ 40 K	<b>P2.3</b> ■ 35 G	<b>P3.1</b> ■ 31 I	<b>P3.2</b> ■ 25 I	<b>P3.3</b> ■ 21 G	<b>P4.1</b> ■ 19 I	<b>P4.2</b> ■ 16 G	<b>P4.3</b> ■ 13 E	<b>M1.1</b> ■ 41 I	<b>M1.2</b> ■ 35 I
<b>M2.1</b> ■ 37 I	<b>M2.2</b> ■ 30 I	<b>M3.1</b> ■ 19 I	<b>M3.2</b> ■ 16 I	<b>M3.3</b> ■ 14 I	<b>M4.1</b> ■ 20 G	<b>K1.1</b> ■ 48 M	<b>K1.2</b> ■ 36 K	<b>K1.3</b> ■ 27 K	<b>K2.1</b> ■ 37 J	<b>K2.2</b> ■ 30 J	<b>K2.3</b> ■ 24 F	<b>K3.1</b> ■ 33 J	<b>K3.2</b> ■ 25 J
<b>K3.3</b> ■ 20 F	<b>K4.1</b> ■ 30 J	<b>K4.2</b> ■ 23 J	<b>K4.3</b> ■ 17 F	<b>K4.4</b> ■ 14 F	<b>K4.5</b> ■ 12 F	<b>K5.1</b> ■ 34 J	<b>K5.2</b> ■ 26 J	<b>K5.3</b> ■ 20 F	<b>N1.1</b> ■ 55 I	<b>N1.2</b> ■ 41 I	<b>N1.3</b> ■ 28 M	<b>N2.1</b> ■ 57 K	<b>N2.2</b> ■ 51 K
<b>N2.3</b> ■ 37 K	<b>N3.1</b> ■ 85 K	<b>N3.2</b> ■ 50 I	<b>N3.3</b> ■ 25 E	<b>N4.1</b> ■ 65 G	<b>N4.2</b> ■ 50 G	<b>N4.3</b> ■ 35 F	<b>S1.1</b> ■ 34 I	<b>S1.2</b> ■ 20 G	<b>S1.3</b> ■ 4 B	<b>S2.1</b> ■ 15 G	<b>S2.2</b> ■ 10 E	<b>S3.1</b> ■ 11 G	<b>S3.2</b> ■ 7 E
<b>S4.1</b> ■ 9 G	<b>S4.2</b> ■ 6 E												

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A5203.0	–	3.00	0.1181	16.0	46.0	3.00
A5203.1	–	3.10	0.1220	18.0	49.0	3.10
A5201/8	1/8	3.18	0.1250	18.0	49.0	3.18
A5203.2	–	3.20	0.1260	18.0	49.0	3.20
A5203.3	–	3.30	0.1299	18.0	49.0	3.30
A5203.4	–	3.40	0.1339	20.0	52.0	3.40
A5203.5	–	3.50	0.1378	20.0	52.0	3.50
A5209/64	9/64	3.57	0.1406	20.0	52.0	3.57
A5203.6	–	3.60	0.1417	20.0	52.0	3.60
A5203.7	–	3.70	0.1457	20.0	52.0	3.70
A5203.8	–	3.80	0.1496	22.0	55.0	3.80
A5203.9	–	3.90	0.1535	22.0	55.0	3.90
A5205/32	5/32	3.97	0.1563	22.0	55.0	3.97
A5204.0	–	4.00	0.1575	22.0	55.0	4.00
A5204.1	–	4.10	0.1614	22.0	55.0	4.10
A5204.2	–	4.20	0.1654	22.0	55.0	4.20
A5204.3	–	4.30	0.1693	24.0	58.0	4.30
A52011/64	11/64	4.37	0.1719	24.0	58.0	4.37
A5204.4	–	4.40	0.1732	24.0	58.0	4.40
A5204.5	–	4.50	0.1772	24.0	58.0	4.50
A5204.6	–	4.60	0.1811	24.0	58.0	4.60
A5204.7	–	4.70	0.1850	24.0	58.0	4.70
A5203/16	3/16	4.76	0.1875	26.0	62.0	4.76
A5204.8	–	4.80	0.1890	26.0	62.0	4.80

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A5204.9	–	4.90	0.1929	26.0	62.0	4.90
A5205.0	–	5.00	0.1969	26.0	62.0	5.00
A5205.1	–	5.10	0.2008	26.0	62.0	5.10
A52013/64	13/64	5.16	0.2031	26.0	62.0	5.16
A5205.2	–	5.20	0.2047	26.0	62.0	5.20
A5205.3	–	5.30	0.2087	26.0	62.0	5.30
A5205.4	–	5.40	0.2126	28.0	66.0	5.40
A5205.5	–	5.50	0.2165	28.0	66.0	5.50
A5207/32	7/32	5.56	0.2188	28.0	66.0	5.56
A5205.6	–	5.60	0.2205	28.0	66.0	5.60
A5205.7	–	5.70	0.2244	28.0	66.0	5.70
A5205.8	–	5.80	0.2283	28.0	66.0	5.80
A5205.9	–	5.90	0.2323	28.0	66.0	5.90
A52015/64	15/64	5.95	0.2344	28.0	66.0	5.95
A5206.0	–	6.00	0.2362	28.0	66.0	6.00
A5206.1	–	6.10	0.2402	31.0	70.0	6.10
A5206.2	–	6.20	0.2441	31.0	70.0	6.20
A5206.3	–	6.30	0.2480	31.0	70.0	6.30
A5201/4	1/4	6.35	0.2500	31.0	70.0	6.35
A5206.4	–	6.40	0.2520	31.0	70.0	6.40
A5206.5	–	6.50	0.2559	31.0	70.0	6.50
A5206.6	–	6.60	0.2598	31.0	70.0	6.60
A5206.7	–	6.70	0.2638	31.0	70.0	6.70
A52017/64	17/64	6.75	0.2656	34.0	74.0	6.75



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A5206.8	–	6.80	0.2677	34.0	74.0	6.80
A5206.9	–	6.90	0.2717	34.0	74.0	6.90
A5207.0	–	7.00	0.2756	34.0	74.0	7.00
A5207.1	–	7.10	0.2795	34.0	74.0	7.10
A5209/32	9/32	7.14	0.2813	34.0	74.0	7.14
A5207.2	–	7.20	0.2835	34.0	74.0	7.20
A5207.3	–	7.30	0.2874	34.0	74.0	7.30
A5207.4	–	7.40	0.2913	34.0	74.0	7.40
A5207.5	–	7.50	0.2953	34.0	74.0	7.50
A52019/64	19/64	7.54	0.2969	37.0	79.0	7.54
A5207.6	–	7.60	0.2992	37.0	79.0	7.60
A5207.7	–	7.70	0.3031	37.0	79.0	7.70
A5207.8	–	7.80	0.3071	37.0	79.0	7.80
A5207.9	–	7.90	0.3110	37.0	79.0	7.90
A5205/16	5/16	7.94	0.3125	37.0	79.0	7.94
A5208.0	–	8.00	0.3150	37.0	79.0	8.00
A5208.1	–	8.10	0.3189	37.0	79.0	8.10
A5208.2	–	8.20	0.3228	37.0	79.0	8.20
A5208.3	–	8.30	0.3268	37.0	79.0	8.30
A52021/64	21/64	8.33	0.3281	37.0	79.0	8.33
A5208.4	–	8.40	0.3307	37.0	79.0	8.40
A5208.5	–	8.50	0.3346	37.0	79.0	8.50
A5208.6	–	8.60	0.3386	40.0	84.0	8.60
A5208.7	–	8.70	0.3425	40.0	84.0	8.70
A52011/32	11/32	8.73	0.3438	40.0	84.0	8.73
A5208.8	–	8.80	0.3465	40.0	84.0	8.80
A5208.9	–	8.90	0.3504	40.0	84.0	8.90
A5209.0	–	9.00	0.3543	40.0	84.0	9.00
A5209.1	–	9.10	0.3583	40.0	84.0	9.10
A52023/64	23/64	9.13	0.3594	40.0	84.0	9.13
A5209.2	–	9.20	0.3622	40.0	84.0	9.20
A5209.3	–	9.30	0.3661	40.0	84.0	9.30
A5209.4	–	9.40	0.3701	40.0	84.0	9.40
A5209.5	–	9.50	0.3740	40.0	84.0	9.50
A5203/8	3/8	9.52	0.3750	43.0	89.0	9.52
A5209.6	–	9.60	0.3780	43.0	89.0	9.60
A5209.7	–	9.70	0.3819	43.0	89.0	9.70
A5209.8	–	9.80	0.3858	43.0	89.0	9.80
A5209.9	–	9.90	0.3898	43.0	89.0	9.90

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A52025/64	25/64	9.92	0.3906	43.0	89.0	9.92
A52010.0	–	10.00	0.3937	43.0	89.0	10.00
A52010.1	–	10.10	0.3976	43.0	89.0	10.10
A52010.2	–	10.20	0.4016	43.0	89.0	10.20
A52010.3	–	10.30	0.4055	43.0	89.0	10.30
A52013/32	13/32	10.32	0.4063	43.0	89.0	10.32
A52010.4	–	10.40	0.4094	43.0	89.0	10.40
A52010.5	–	10.50	0.4134	43.0	89.0	10.50
A52010.6	–	10.60	0.4173	43.0	89.0	10.60
A52010.7	–	10.70	0.4213	47.0	95.0	10.70
A52027/64	27/64	10.72	0.4219	47.0	95.0	10.72
A52010.8	–	10.80	0.4252	47.0	95.0	10.80
A52010.9	–	10.90	0.4291	47.0	95.0	10.90
A52011.0	–	11.00	0.4331	47.0	95.0	11.00
A52011.1	–	11.10	0.4370	47.0	95.0	11.10
A5207/16	7/16	11.11	0.4375	47.0	95.0	11.11
A52011.2	–	11.20	0.4409	47.0	95.0	11.20
A52011.3	–	11.30	0.4449	47.0	95.0	11.30
A52011.4	–	11.40	0.4488	47.0	95.0	11.40
A52011.5	–	11.50	0.4528	47.0	95.0	11.50
A52029/64	29/64	11.51	0.4531	47.0	95.0	11.51
A52011.6	–	11.60	0.4567	47.0	95.0	11.60
A52011.7	–	11.70	0.4606	47.0	95.0	11.70
A52011.8	–	11.80	0.4646	47.0	95.0	11.80
A52011.9	–	11.90	0.4685	51.0	102.0	11.90
A52015/32	15/32	11.91	0.4688	51.0	102.0	11.91
A52012.0	–	12.00	0.4724	51.0	102.0	12.00
A52012.1	–	12.10	0.4764	51.0	102.0	12.10
A52012.2	–	12.20	0.4803	51.0	102.0	12.20
A52012.3	–	12.30	0.4843	51.0	102.0	12.30
A52031/64	31/64	12.30	0.4844	51.0	102.0	12.30
A52012.4	–	12.40	0.4882	51.0	102.0	12.40
A52012.5	–	12.50	0.4921	51.0	102.0	12.50
A52012.6	–	12.60	0.4961	51.0	102.0	12.60
A52012.7	–	12.70	0.5000	51.0	102.0	12.70
A5201/2	1/2	12.70	0.5000	51.0	102.0	12.70
A52012.8	–	12.80	0.5039	51.0	102.0	12.80
A52012.9	–	12.90	0.5079	51.0	102.0	12.90
A52013.0	–	13.00	0.5118	51.0	102.0	13.00





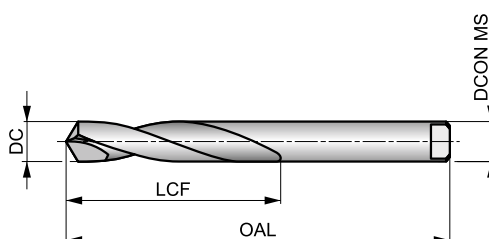
# A124

**DORMER**



## Foret extra-court en HSS, finition avec traitement vapeur, avec pointe en carbure brasée

Foret à pointe en carbure brasée offrant les performances élevées d'un foret en carbure monobloc grâce à son corps en HSS moins cassant. Sa pointe à 118° à 4 facettes facilite l'auto-centrage ce qui en fait un choix économique. Il peut être utilisé sur des machines conventionnelles et CNC. La finition avec traitement vapeur retient le fluide de coupe.



HSS HM	DIN 8037	2.5×D
118°	Bright ST	
λ 10-20°	R	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P2.3</b> ■ 40 C	<b>P3.3</b> ■ 40 C	<b>P4.2</b> ■ 30 C	<b>P4.3</b> ■ 24 A	<b>M3.1</b> ■ 41 C	<b>M3.2</b> ■ 35 C	<b>M3.3</b> ■ 32 C	<b>M4.1</b> ■ 35 C	<b>K1.1</b> ■ 55 C	<b>K1.2</b> ■ 41 C	<b>K1.3</b> ■ 31 C	<b>K2.1</b> ■ 49 C	<b>K2.2</b> ■ 40 C	<b>K2.3</b> ■ 32 A
<b>K3.1</b> ■ 44 C	<b>K3.2</b> ■ 33 C	<b>K3.3</b> ■ 27 A	<b>K4.1</b> ■ 40 C	<b>K4.2</b> ■ 30 C	<b>K4.3</b> ■ 22 A	<b>K4.4</b> ■ 19 A	<b>K4.5</b> ■ 16 A	<b>K5.1</b> ■ 46 C	<b>K5.2</b> ■ 34 C	<b>K5.3</b> ■ 27 A	<b>N3.1</b> ■ 119 E	<b>N3.2</b> ■ 170 G	<b>N4.2</b> ■ 60 E
<b>S1.1</b> ■ 40 A	<b>S1.2</b> ■ 35 A	<b>S1.3</b> ■ 25 A	<b>S2.1</b> ■ 33 A	<b>S2.2</b> ■ 28 A	<b>S3.1</b> ■ 25 A	<b>S3.2</b> ■ 20 A	<b>S4.1</b> ■ 20 A	<b>S4.2</b> ■ 16 A					

Tenon selon DIN 1809.

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A1243.0	3.00	0.1181	20.0	50.0	3.00
A1243.2	3.20	0.1260	25.0	56.0	3.20
A1243.5	3.50	0.1378	25.0	56.0	3.50
A1244.0	4.00	0.1575	25.0	56.0	4.00
A1244.2	4.20	0.1654	28.0	63.0	4.20
A1244.5	4.50	0.1772	28.0	63.0	4.50
A1244.8	4.80	0.1890	28.0	63.0	4.80
A1245.0	5.00	0.1969	28.0	63.0	5.00
A1245.2	5.20	0.2047	32.0	71.0	5.20
A1245.5	5.50	0.2165	32.0	71.0	5.50
A1245.8	5.80	0.2283	32.0	71.0	5.80
A1246.0	6.00	0.2362	32.0	71.0	6.00
A1246.5	6.50	0.2559	32.0	71.0	6.50
A1246.8	6.80	0.2677	40.0	80.0	6.80
A1247.0	7.00	0.2756	40.0	80.0	7.00

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A1247.5	7.50	0.2953	40.0	80.0	7.50
A1248.0	8.00	0.3150	40.0	80.0	8.00
A1248.5	8.50	0.3346	50.0	90.0	8.50
A1249.0	9.00	0.3543	50.0	90.0	9.00
A1249.5	9.50	0.3740	50.0	90.0	9.50
A12410.0	10.00	0.3937	56.0	100.0	10.00
A12410.5	10.50	0.4134	56.0	100.0	10.50
A12411.0	11.00	0.4331	56.0	100.0	11.00
A12411.5	11.50	0.4528	63.0	112.0	11.50
A12412.0	12.00	0.4724	63.0	112.0	12.00
A12413.0	13.00	0.5118	63.0	112.0	13.00
A12414.0	14.00	0.5512	71.0	125.0	14.00
A12415.0	15.00	0.5906	71.0	125.0	15.00
A12416.0	16.00	0.6299	80.0	140.0	16.00

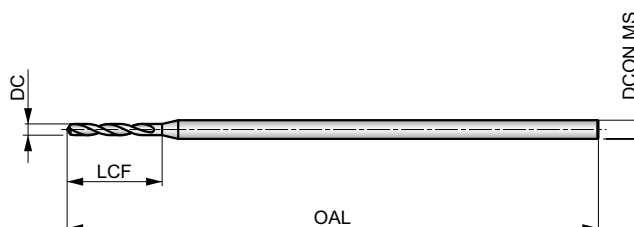


# A720



## Micro-foret en HSS-E (5% cobalt), finition brillante

Micro foret de très petits diamètres allant de 0,15 mm à 1,40 mm. Pour faciliter la tenue de l'outil, tous les forets ont un diamètre de queue de 1,00 mm ou 1,50 mm. Les forets ont tous une pointe à 118° à 4 facettes qui facilite l'auto-centrage et réduit les forces de coupe.



HSS-E	DIN 1899	2.5×D
118°	Bright	
20-35°	R	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 36 A	<b>P1.2</b> ■ 40 A	<b>P1.3</b> ■ 41 A	<b>P2.1</b> ■ 31 A	<b>P2.2</b> ■ 27 A	<b>P2.3</b> ■ 24 A	<b>P3.1</b> ■ 25 A	<b>P3.2</b> ■ 20 A	<b>P3.3</b> ■ 17 A	<b>P4.1</b> ■ 15 A	<b>P4.2</b> ■ 13 A	<b>P4.3</b> ■ 10 A	<b>M1.1</b> ■ 30 A	<b>M1.2</b> ■ 26 A
<b>M2.1</b> ■ 27 A	<b>M2.2</b> ■ 22 A	<b>M3.1</b> ■ 12 A	<b>M3.2</b> ■ 10 A	<b>M3.3</b> ■ 9 A	<b>M4.1</b> ■ 15 A	<b>K1.1</b> ■ 30 A	<b>K1.2</b> ■ 22 A	<b>K1.3</b> ■ 17 A	<b>K2.1</b> ■ 25 A	<b>K2.2</b> ■ 20 A	<b>K2.3</b> ■ 16 A	<b>K3.1</b> ■ 22 A	<b>K3.2</b> ■ 17 A
<b>K3.3</b> ■ 13 A	<b>K4.1</b> ■ 20 A	<b>K4.2</b> ■ 15 A	<b>K4.3</b> ■ 11 A	<b>K4.4</b> ■ 10 A	<b>K4.5</b> ■ 8 A	<b>K5.1</b> ■ 23 A	<b>K5.2</b> ■ 17 A	<b>K5.3</b> ■ 13 A	<b>N1.1</b> ■ 35 A	<b>N1.2</b> ■ 26 A	<b>N1.3</b> ■ 18 A	<b>N2.1</b> ■ 42 A	<b>N2.2</b> ■ 37 A
<b>N2.3</b> ■ 27 A	<b>N3.1</b> ■ 68 A	<b>N3.2</b> ■ 40 A	<b>N3.3</b> ■ 20 A	<b>N4.1</b> ■ 48 A	<b>N4.2</b> ■ 25 A	<b>S1.1</b> ■ 23 A	<b>S1.2</b> ■ 17 A	<b>S1.3</b> ■ 8 A	<b>S2.1</b> ■ 9 A	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 7 A	<b>S3.2</b> ■ 4 A	<b>S4.1</b> ■ 5 A
<b>S4.2</b> ■ 3 A													

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A720.15	0.15	0.0059	1.0	25.0	1.00
A720.16	0.16	0.0063	1.4	25.0	1.00
A720.17	0.17	0.0067	1.4	25.0	1.00
A720.18	0.18	0.0070	1.4	25.0	1.00
A720.2	0.20	0.0079	1.8	25.0	1.00
A720.22	0.22	0.0087	1.8	25.0	1.00
A720.25	0.25	0.0098	2.2	25.0	1.00
A720.27	0.27	0.0106	2.2	25.0	1.00
A720.28	0.28	0.0110	2.2	25.0	1.00
A720.3	0.30	0.0118	2.2	25.0	1.00
A720.35	0.35	0.0138	2.8	25.0	1.00
A720.38	0.38	0.0150	2.8	25.0	1.00
A720.39	0.39	0.0154	3.6	25.0	1.00
A720.4	0.40	0.0157	3.6	25.0	1.00
A720.45	0.45	0.0177	3.6	25.0	1.00
A720.5	0.50	0.0197	4.0	25.0	1.00

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A720.55	0.55	0.0217	4.5	25.0	1.00
A720.6	0.60	0.0236	4.5	25.0	1.00
A720.62	0.62	0.0244	5.0	25.0	1.00
A720.65	0.65	0.0256	5.0	25.0	1.00
A720.7	0.70	0.0276	5.6	25.0	1.00
A720.75	0.75	0.0295	5.6	25.0	1.00
A720.8	0.80	0.0315	6.3	25.0	1.50
A720.85	0.85	0.0335	6.3	25.0	1.50
A720.9	0.90	0.0354	7.1	25.0	1.50
A720.95	0.95	0.0374	7.1	25.0	1.50
A7201.0	1.00	0.0394	8.0	25.0	1.50
A7201.05	1.05	0.0413	8.0	25.0	1.50
A7201.1	1.10	0.0433	9.0	25.0	1.50
A7201.2	1.20	0.0472	10.0	25.0	1.50
A7201.3	1.30	0.0512	10.0	25.0	1.50
A7201.4	1.40	0.0551	11.2	25.0	1.50



# A920

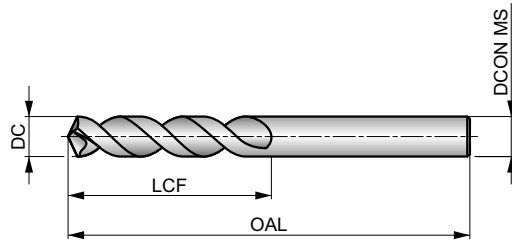


## Foret extra-court PFX en HSS-E (5% cobalt), finition brillante

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Sa pointe auto-centrante à 130° et la conception spéciale de sa goujure parabolique permettent de percer des trous profonds en une seule passe. Convient à de nombreux matériaux.



## PFX



HSS-E	DIN ANSI	3xD
130°	Bright	
$\lambda > 35^\circ$	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 42 J	<b>P1.2</b> ■ 47 J	<b>P1.3</b> ■ 49 J	<b>P2.1</b> ■ 36 J	<b>P2.2</b> ■ 32 I	<b>P2.3</b> ■ 28 E	<b>P3.1</b> ■ 34 I	<b>P3.2</b> ■ 27 I	<b>P3.3</b> ■ 23 E	<b>P4.1</b> ■ 20 I	<b>P4.2</b> ■ 17 E	<b>P4.3</b> ■ 14 E	<b>M1.1</b> ■ 21 F	<b>M1.2</b> ■ 17 F
<b>M2.1</b> ■ 18 F	<b>M2.2</b> ■ 15 F	<b>M3.1</b> ■ 8 F	<b>M3.2</b> ■ 7 F	<b>M3.3</b> ■ 6 F	<b>M4.1</b> ■ 9 D	<b>K1.1</b> ■ 34 L	<b>K1.2</b> ■ 25 L	<b>K1.3</b> ■ 19 L	<b>K2.1</b> ■ 32 L	<b>K2.2</b> ■ 26 L	<b>K2.3</b> ■ 21 J	<b>K3.1</b> ■ 28 L	<b>K3.2</b> ■ 22 L
<b>K3.3</b> ■ 17 J	<b>K4.1</b> ■ 26 L	<b>K4.2</b> ■ 20 L	<b>K4.3</b> ■ 14 J	<b>K4.4</b> ■ 12 J	<b>K4.5</b> ■ 10 J	<b>K5.1</b> ■ 30 L	<b>K5.2</b> ■ 22 L	<b>K5.3</b> ■ 17 J	<b>N1.1</b> ■ 75 L	<b>N1.2</b> ■ 56 L	<b>N1.3</b> ■ 38 N	<b>N2.1</b> ■ 62 N	<b>N2.2</b> ■ 55 N
<b>N2.3</b> ■ 40 N	<b>N3.1</b> ■ 112 J	<b>N3.2</b> ■ 66 J	<b>N3.3</b> ■ 33 H	<b>N4.1</b> ■ 55 J	<b>N4.2</b> ■ 40 H	<b>S1.1</b> ■ 30 G	<b>S1.2</b> ■ 18 G	<b>S1.3</b> ■ 10 C	<b>S2.1</b> ■ 12 G	<b>S2.2</b> ■ 8 E	<b>S3.1</b> ■ 9 G	<b>S3.2</b> ■ 6 E	<b>S4.1</b> ■ 7 G
<b>S4.2</b> ■ 5 E													

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9201.0	–	1.00	0.0394	6.0	26.0	1.00
A9201.1	–	1.10	0.0433	7.0	28.0	1.10
A9203/64	3/64	1.19	0.0469	13.0	35.0	1.19
A9201.2	–	1.20	0.0472	8.0	30.0	1.20
A9201.25	–	1.25	0.0492	8.0	30.0	1.25
A9201.3	–	1.30	0.0512	8.0	30.0	1.30
A9201.35	–	1.35	0.0531	9.0	32.0	1.35
A9201.4	–	1.40	0.0551	9.0	32.0	1.40
A9201.5	–	1.50	0.0591	9.0	32.0	1.50
A9201.55	–	1.55	0.0610	10.0	34.0	1.55
A9201/16	1/16	1.59	0.0625	16.0	41.0	1.59
A9201.6	–	1.60	0.0630	10.0	34.0	1.60
A9201.7	–	1.70	0.0669	10.0	34.0	1.70
A9201.75	–	1.75	0.0689	11.0	36.0	1.75
A9201.8	–	1.80	0.0709	11.0	36.0	1.80
A9201.9	–	1.90	0.0748	11.0	36.0	1.90
A9205/64	5/64	1.98	0.0781	17.0	43.0	1.98
A9202.0	–	2.00	0.0787	12.0	38.0	2.00
A9202.1	–	2.10	0.0827	12.0	38.0	2.10
A9202.15	–	2.15	0.0846	13.0	40.0	2.15
A9202.2	–	2.20	0.0866	13.0	40.0	2.20
A9202.3	–	2.30	0.0906	13.0	40.0	2.30
A9202.35	–	2.35	0.0925	14.0	43.0	2.35
A9203/32	3/32	2.38	0.0938	19.0	41.0	2.38

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9202.4	–	2.40	0.0945	14.0	43.0	2.40
A9202.5	–	2.50	0.0984	14.0	43.0	2.50
A9202.6	–	2.60	0.1024	14.0	43.0	2.60
A9202.7	–	2.70	0.1063	16.0	46.0	2.70
A9207/64	7/64	2.78	0.1094	21.0	46.0	2.78
A9202.8	–	2.80	0.1102	16.0	46.0	2.80
A9202.9	–	2.90	0.1142	16.0	46.0	2.90
A9203.0	–	3.00	0.1181	16.0	46.0	3.00
A9203.1	–	3.10	0.1220	18.0	49.0	3.10
A9201/8	1/8	3.18	0.1250	22.0	48.0	3.18
A9203.2	–	3.20	0.1260	18.0	49.0	3.20
A9203.3	–	3.30	0.1299	18.0	49.0	3.30
A9203.4	–	3.40	0.1339	20.0	52.0	3.40
A9203.5	–	3.50	0.1378	20.0	52.0	3.50
A9209/64	9/64	3.57	0.1406	24.0	49.0	3.57
A9203.6	–	3.60	0.1417	20.0	52.0	3.60
A9203.7	–	3.70	0.1457	20.0	52.0	3.70
A9203.8	–	3.80	0.1496	22.0	55.0	3.80
A9203.9	–	3.90	0.1535	22.0	55.0	3.90
A9205/32	5/32	3.97	0.1563	25.0	52.0	3.97
A9204.0	–	4.00	0.1575	22.0	55.0	4.00
A9204.1	–	4.10	0.1614	22.0	55.0	4.10
A9204.2	–	4.20	0.1654	22.0	55.0	4.20
A9204.3	–	4.30	0.1693	24.0	58.0	4.30



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A92011/64	11/64	4.37	0.1719	27.0	54.0	4.37
A9204.4	–	4.40	0.1732	24.0	58.0	4.40
A9204.5	–	4.50	0.1772	24.0	58.0	4.50
A9204.6	–	4.60	0.1811	24.0	58.0	4.60
A9204.7	–	4.70	0.1850	24.0	58.0	4.70
A9203/16	3/16	4.76	0.1875	29.0	56.0	4.76
A9204.8	–	4.80	0.1890	26.0	62.0	4.80
A9204.9	–	4.90	0.1929	26.0	62.0	4.90
A9205.0	–	5.00	0.1969	26.0	62.0	5.00
A9205.1	–	5.10	0.2008	26.0	62.0	5.10
A92013/64	13/64	5.16	0.2031	30.0	57.0	5.16
A9205.2	–	5.20	0.2047	26.0	62.0	5.20
A9205.3	–	5.30	0.2087	26.0	62.0	5.30
A9205.4	–	5.40	0.2126	28.0	66.0	5.40
A9205.5	–	5.50	0.2165	28.0	66.0	5.50
A9207/32	7/32	5.56	0.2188	32.0	60.0	5.56
A9205.6	–	5.60	0.2205	28.0	66.0	5.60
A9205.7	–	5.70	0.2244	28.0	66.0	5.70
A9205.8	–	5.80	0.2283	28.0	66.0	5.80
A9205.9	–	5.90	0.2323	28.0	66.0	5.90
A92015/64	15/64	5.95	0.2344	33.0	62.0	5.95
A9206.0	–	6.00	0.2362	28.0	66.0	6.00
A9206.1	–	6.10	0.2402	31.0	70.0	6.10
A9206.2	–	6.20	0.2441	31.0	70.0	6.20
A9206.3	–	6.30	0.2480	31.0	70.0	6.30
A9201/4	1/4	6.35	0.2500	35.0	64.0	6.35
A9206.4	–	6.40	0.2520	31.0	70.0	6.40
A9206.5	–	6.50	0.2559	31.0	70.0	6.50
A9206.6	–	6.60	0.2598	31.0	70.0	6.60
A9206.7	–	6.70	0.2638	31.0	70.0	6.70
A92017/64	17/64	6.75	0.2656	37.0	67.0	6.75
A9206.8	–	6.80	0.2677	34.0	74.0	6.80
A9206.9	–	6.90	0.2717	34.0	74.0	6.90
A9207.0	–	7.00	0.2756	34.0	74.0	7.00
A9207.1	–	7.10	0.2795	34.0	74.0	7.10
A9209/32	9/32	7.14	0.2813	38.0	68.0	7.14
A9207.2	–	7.20	0.2835	34.0	74.0	7.20
A9207.3	–	7.30	0.2874	34.0	74.0	7.30
A9207.4	–	7.40	0.2913	34.0	74.0	7.40
A9207.5	–	7.50	0.2953	34.0	74.0	7.50
A92019/64	19/64	7.54	0.2969	40.0	70.0	7.54
A9207.6	–	7.60	0.2992	37.0	79.0	7.60
A9207.7	–	7.70	0.3031	37.0	79.0	7.70
A9207.8	–	7.80	0.3071	37.0	79.0	7.80
A9207.9	–	7.90	0.3110	37.0	79.0	7.90
A9205/16	5/16	7.94	0.3125	41.0	71.0	7.94
A9208.0	–	8.00	0.3150	37.0	79.0	8.00
A9208.1	–	8.10	0.3189	37.0	79.0	8.10
A9208.2	–	8.20	0.3228	37.0	79.0	8.20
A9208.3	–	8.30	0.3268	37.0	79.0	8.30
A92021/64	21/64	8.33	0.3281	43.0	75.0	8.33
A9208.4	–	8.40	0.3307	37.0	79.0	8.40
A9208.5	–	8.50	0.3346	37.0	79.0	8.50
A9208.6	–	8.60	0.3386	40.0	84.0	8.60
A9208.7	–	8.70	0.3425	40.0	84.0	8.70
A92011/32	11/32	8.73	0.3438	43.0	76.0	8.73
A9208.8	–	8.80	0.3465	40.0	84.0	8.80
A9208.9	–	8.90	0.3504	40.0	84.0	8.90
A9209.0	–	9.00	0.3543	40.0	84.0	9.00
A9209.1	–	9.10	0.3583	40.0	84.0	9.10
A92023/64	23/64	9.13	0.3594	44.0	78.0	9.13
A9209.2	–	9.20	0.3622	40.0	84.0	9.20

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9209.3	–	9.30	0.3661	40.0	84.0	9.30
A9209.4	–	9.40	0.3701	40.0	84.0	9.40
A9209.5	–	9.50	0.3740	40.0	84.0	9.50
A9203/8	3/8	9.52	0.3750	46.0	79.0	9.52
A9209.6	–	9.60	0.3780	43.0	89.0	9.60
A9209.7	–	9.70	0.3819	43.0	89.0	9.70
A9209.8	–	9.80	0.3858	43.0	89.0	9.80
A9209.9	–	9.90	0.3898	43.0	89.0	9.90
A92025/64	25/64	9.92	0.3906	48.0	83.0	9.92
A92010.0	–	10.00	0.3937	43.0	89.0	10.00
A92010.2	–	10.20	0.4016	43.0	89.0	10.20
A92010.3	–	10.30	0.4055	43.0	89.0	10.30
A92013/32	13/32	10.32	0.4063	49.0	84.0	10.32
A92010.5	–	10.50	0.4134	43.0	89.0	10.50
A92027/64	27/64	10.72	0.4219	51.0	86.0	10.72
A92010.8	–	10.80	0.4252	47.0	95.0	10.80
A92011.0	–	11.00	0.4331	47.0	95.0	11.00
A9207/16	7/16	11.11	0.4375	52.0	87.0	11.11
A92011.5	–	11.50	0.4528	47.0	95.0	11.50
A92029/64	29/64	11.51	0.4531	54.0	90.0	11.51
A92011.8	–	11.80	0.4646	47.0	95.0	11.80
A92015/32	15/32	11.91	0.4688	54.0	92.0	11.91
A92012.0	–	12.00	0.4724	51.0	102.0	12.00
A92012.2	–	12.20	0.4803	51.0	102.0	12.20
A92031/64	31/64	12.30	0.4844	56.0	94.0	12.30
A92012.5	–	12.50	0.4921	51.0	102.0	12.50
A9201/2	1/2	12.70	0.5000	57.0	95.0	12.70
A92013.0	–	13.00	0.5118	51.0	102.0	13.00
A92033/64	33/64	13.10	0.5156	60.0	98.0	13.10
A92013.5	–	13.50	0.5315	54.0	107.0	13.50
A92035/64	35/64	13.89	0.5469	64.0	102.0	13.89
A92014.0	–	14.00	0.5512	54.0	107.0	14.00
A9209/16	9/16	14.29	0.5625	64.0	102.0	14.29
A92014.5	–	14.50	0.5709	56.0	111.0	14.50
A92037/64	37/64	14.68	0.5781	67.0	105.0	14.68
A92014.75	–	14.75	0.5807	56.0	111.0	14.75
A92015.0	–	15.00	0.5906	56.0	111.0	15.00
A92019/32	19/32	15.08	0.5938	67.0	105.0	15.08
A92039/64	39/64	15.48	0.6094	70.0	108.0	15.48
A92015.5	–	15.50	0.6102	58.0	115.0	15.50
A9205/8	5/8	15.88	0.6250	70.0	108.0	15.88
A92016.0	–	16.00	0.6299	58.0	115.0	16.00
A92041/64	41/64	16.27	0.6406	73.0	114.0	16.27
A92016.5	–	16.50	0.6496	60.0	119.0	16.50
A92021/32	21/32	16.67	0.6563	73.0	114.0	16.67
A92016.75	–	16.75	0.6594	60.0	119.0	16.75
A92017.0	–	17.00	0.6693	60.0	119.0	17.00
A92043/64	43/64	17.07	0.6719	73.0	117.0	17.07
A92011/16	11/16	17.46	0.6875	73.0	117.0	17.46
A92017.5	–	17.50	0.6890	62.0	123.0	17.50
A92045/64	45/64	17.86	0.7031	76.0	121.0	17.86
A92018.0	–	18.00	0.7087	62.0	123.0	18.00
A92023/32	23/32	18.26	0.7188	76.0	121.0	18.26
A92018.5	–	18.50	0.7283	64.0	127.0	18.50
A92047/64	47/64	18.65	0.7344	79.0	127.0	18.65
A92019.0	–	19.00	0.7480	64.0	127.0	19.00
A9203/4	3/4	19.05	0.7500	79.0	127.0	19.05
A92049/64	49/64	19.45	0.7656	83.0	130.0	19.45
A92019.5	–	19.50	0.7677	66.0	131.0	19.50
A92025/32	25/32	19.84	0.7813	83.0	130.0	19.84
A92020.0	–	20.00	0.7874	66.0	131.0	20.00



# A921

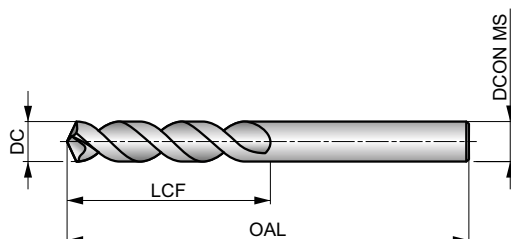


## Foret extra-court PFX en HSS-E (5% cobalt), revêtement Alcrona

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Il possède une pointe auto-centrante à 130° et une conception spéciale de goujure parabolique. Convient à de nombreux matériaux. Le revêtement Alcrona-TOP améliore les performances et prolonge la durée de vie de l'outil.



## PFX



HSS-E	DIN ANSI	3xD
130°	Alcrona Top	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 70 M	<b>P1.2</b> ■ 79 M	<b>P1.3</b> ■ 81 M	<b>P2.1</b> ■ 60 M	<b>P2.2</b> ■ 53 J	<b>P2.3</b> ■ 47 G	<b>P3.1</b> ■ 56 J	<b>P3.2</b> ■ 45 J	<b>P3.3</b> ■ 38 G	<b>P4.1</b> ■ 33 J	<b>P4.2</b> ■ 28 G	<b>P4.3</b> ■ 23 G	<b>M1.1</b> ■ 23 F	<b>M1.2</b> ■ 20 F
<b>M2.1</b> ■ 21 F	<b>M2.2</b> ■ 17 F	<b>M3.1</b> ■ 10 F	<b>M3.2</b> ■ 9 F	<b>M3.3</b> ■ 8 F	<b>M4.1</b> ■ 11 D	<b>K1.1</b> ■ 53 L	<b>K1.2</b> ■ 39 L	<b>K1.3</b> ■ 29 L	<b>K2.1</b> ■ 52 L	<b>K2.2</b> ■ 42 L	<b>K2.3</b> ■ 33 J	<b>K3.1</b> ■ 46 L	<b>K3.2</b> ■ 35 L
<b>K3.3</b> ■ 28 J	<b>K4.1</b> ■ 42 L	<b>K4.2</b> ■ 32 L	<b>K4.3</b> ■ 23 J	<b>K4.4</b> ■ 20 J	<b>K4.5</b> ■ 17 J	<b>K5.1</b> ■ 48 L	<b>K5.2</b> ■ 36 L	<b>K5.3</b> ■ 28 J	<b>S1.1</b> ■ 48 I	<b>S1.2</b> ■ 29 I	<b>S1.3</b> ■ 16 E	<b>S2.1</b> ■ 19 I	<b>S2.2</b> ■ 14 G
<b>S3.1</b> ■ 14 I	<b>S3.2</b> ■ 10 G	<b>S4.1</b> ■ 11 I	<b>S4.2</b> ■ 8 G										

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9212.5	–	2.50	0.0984	14.0	43.0	2.50
A9212.6	–	2.60	0.1024	14.0	43.0	2.60
A9212.7	–	2.70	0.1063	16.0	46.0	2.70
A9217/64	7/64	2.78	0.1094	21.0	46.0	2.78
A9212.9	–	2.90	0.1142	16.0	46.0	2.90
A9213.0	–	3.00	0.1181	16.0	46.0	3.00
A9213.1	–	3.10	0.1220	18.0	49.0	3.10
A9211/8	1/8	3.18	0.1250	22.0	48.0	3.18
A9213.2	–	3.20	0.1260	18.0	49.0	3.20
A9213.3	–	3.30	0.1299	18.0	49.0	3.30
A9213.4	–	3.40	0.1339	20.0	52.0	3.40
A9213.5	–	3.50	0.1378	20.0	52.0	3.50
A9219/64	9/64	3.57	0.1406	24.0	49.0	3.57
A9213.6	–	3.60	0.1417	20.0	52.0	3.60
A9213.7	–	3.70	0.1457	20.0	52.0	3.70
A9213.8	–	3.80	0.1496	22.0	55.0	3.80
A9213.9	–	3.90	0.1535	22.0	55.0	3.90
A9215/32	5/32	3.97	0.1563	25.0	52.0	3.97
A9214.0	–	4.00	0.1575	22.0	55.0	4.00
A9214.1	–	4.10	0.1614	22.0	55.0	4.10
A9214.2	–	4.20	0.1654	22.0	55.0	4.20
A9214.3	–	4.30	0.1693	24.0	58.0	4.30
A92111/64	11/64	4.37	0.1719	27.0	54.0	4.37
A9214.4	–	4.40	0.1732	24.0	58.0	4.40
A9214.5	–	4.50	0.1772	24.0	58.0	4.50
A9214.6	–	4.60	0.1811	24.0	58.0	4.60

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9214.7	–	4.70	0.1850	24.0	58.0	4.70
A9213/16	3/16	4.76	0.1875	29.0	56.0	4.76
A9214.8	–	4.80	0.1890	26.0	62.0	4.80
A9214.9	–	4.90	0.1929	26.0	62.0	4.90
A9215.0	–	5.00	0.1969	26.0	62.0	5.00
A9215.1	–	5.10	0.2008	26.0	62.0	5.10
A92113/64	13/64	5.16	0.2031	30.0	57.0	5.16
A9215.2	–	5.20	0.2047	26.0	62.0	5.20
A9215.3	–	5.30	0.2087	26.0	62.0	5.30
A9215.4	–	5.40	0.2126	28.0	66.0	5.40
A9215.5	–	5.50	0.2165	28.0	66.0	5.50
A9217/32	7/32	5.56	0.2188	32.0	60.0	5.56
A9215.6	–	5.60	0.2205	28.0	66.0	5.60
A9215.7	–	5.70	0.2244	28.0	66.0	5.70
A9215.8	–	5.80	0.2283	28.0	66.0	5.80
A9215.9	–	5.90	0.2323	28.0	66.0	5.90
A92115/64	15/64	5.95	0.2344	33.0	62.0	5.95
A9216.0	–	6.00	0.2362	28.0	66.0	6.00
A9216.1	–	6.10	0.2402	31.0	70.0	6.10
A9216.2	–	6.20	0.2441	31.0	70.0	6.20
A9216.3	–	6.30	0.2480	31.0	70.0	6.30
A9211/4	1/4	6.35	0.2500	35.0	64.0	6.35
A9216.4	–	6.40	0.2520	31.0	70.0	6.40
A9216.5	–	6.50	0.2559	31.0	70.0	6.50
A9216.6	–	6.60	0.2598	31.0	70.0	6.60
A9216.7	–	6.70	0.2638	31.0	70.0	6.70



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A92117/64	17/64	6.75	0.2656	37.0	67.0	6.75
A9216.8	–	6.80	0.2677	34.0	74.0	6.80
A9216.9	–	6.90	0.2717	34.0	74.0	6.90
A9217.0	–	7.00	0.2756	34.0	74.0	7.00
A9217.1	–	7.10	0.2795	34.0	74.0	7.10
A9219/32	9/32	7.14	0.2813	38.0	68.0	7.14
A9217.2	–	7.20	0.2835	34.0	74.0	7.20
A9217.3	–	7.30	0.2874	34.0	74.0	7.30
A9217.4	–	7.40	0.2913	34.0	74.0	7.40
A9217.5	–	7.50	0.2953	34.0	74.0	7.50
A92119/64	19/64	7.54	0.2969	40.0	70.0	7.54
A9217.6	–	7.60	0.2992	37.0	79.0	7.60
A9217.7	–	7.70	0.3031	37.0	79.0	7.70
A9217.8	–	7.80	0.3071	37.0	79.0	7.80
A9217.9	–	7.90	0.3110	37.0	79.0	7.90
A9215/16	5/16	7.94	0.3125	41.0	71.0	7.94
A9218.0	–	8.00	0.3150	37.0	79.0	8.00
A9218.1	–	8.10	0.3189	37.0	79.0	8.10
A9218.2	–	8.20	0.3228	37.0	79.0	8.20
A9218.3	–	8.30	0.3268	37.0	79.0	8.30
A92121/64	21/64	8.33	0.3281	43.0	75.0	8.33
A9218.4	–	8.40	0.3307	37.0	79.0	8.40
A9218.5	–	8.50	0.3346	37.0	79.0	8.50
A9218.6	–	8.60	0.3386	40.0	84.0	8.60
A9218.7	–	8.70	0.3425	40.0	84.0	8.70
A92111/32	11/32	8.73	0.3438	43.0	76.0	8.73
A9218.8	–	8.80	0.3465	40.0	84.0	8.80
A9218.9	–	8.90	0.3504	40.0	84.0	8.90
A9219.0	–	9.00	0.3543	40.0	84.0	9.00
A9219.1	–	9.10	0.3583	40.0	84.0	9.10
A92123/64	23/64	9.13	0.3594	44.0	78.0	9.13
A9219.2	–	9.20	0.3622	40.0	84.0	9.20
A9219.3	–	9.30	0.3661	40.0	84.0	9.30
A9219.4	–	9.40	0.3701	40.0	84.0	9.40
A9219.5	–	9.50	0.3740	40.0	84.0	9.50
A9213/8	3/8	9.52	0.3750	46.0	79.0	9.52
A9219.6	–	9.60	0.3780	43.0	89.0	9.60

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9219.7	–	9.70	0.3819	43.0	89.0	9.70
A9219.8	–	9.80	0.3858	43.0	89.0	9.80
A9219.9	–	9.90	0.3898	43.0	89.0	9.90
A92125/64	25/64	9.92	0.3906	48.0	83.0	9.92
A92110.0	–	10.00	0.3937	43.0	89.0	10.00
A92110.2	–	10.20	0.4016	43.0	89.0	10.20
A92110.3	–	10.30	0.4055	43.0	89.0	10.30
A92113/32	13/32	10.32	0.4063	49.0	84.0	10.32
A92110.5	–	10.50	0.4134	43.0	89.0	10.50
A92127/64	27/64	10.72	0.4219	51.0	86.0	10.72
A92110.8	–	10.80	0.4252	47.0	95.0	10.80
A92111.0	–	11.00	0.4331	47.0	95.0	11.00
A9217/16	7/16	11.11	0.4375	52.0	87.0	11.11
A92111.5	–	11.50	0.4528	47.0	95.0	11.50
A92129/64	29/64	11.51	0.4531	54.0	90.0	11.51
A92111.8	–	11.80	0.4646	47.0	95.0	11.80
A92115/32	15/32	11.91	0.4688	54.0	92.0	11.91
A92112.0	–	12.00	0.4724	51.0	102.0	12.00
A92131/64	31/64	12.30	0.4844	56.0	94.0	12.30
A92112.5	–	12.50	0.4921	51.0	102.0	12.50
A9211/2	1/2	12.70	0.5000	57.0	95.0	12.70
A92113.0	–	13.00	0.5118	51.0	102.0	13.00
A92133/64	33/64	13.10	0.5156	60.0	98.0	13.10
A92113.5	–	13.50	0.5315	54.0	107.0	13.50
A92135/64	35/64	13.89	0.5469	64.0	102.0	13.89
A92114.0	–	14.00	0.5512	54.0	107.0	14.00
A9219/16	9/16	14.29	0.5625	64.0	102.0	14.29
A92114.5	–	14.50	0.5709	56.0	111.0	14.50
A92137/64	37/64	14.68	0.5781	67.0	105.0	14.68
A92114.75	–	14.75	0.5807	56.0	111.0	14.75
A92115.0	–	15.00	0.5906	56.0	111.0	15.00
A92119/32	19/32	15.08	0.5938	67.0	105.0	15.08
A92139/64	39/64	15.48	0.6094	70.0	108.0	15.48
A92115.5	–	15.50	0.6102	58.0	115.0	15.50
A9215/8	5/8	15.88	0.6250	70.0	108.0	15.88
A92116.0	–	16.00	0.6299	58.0	115.0	16.00

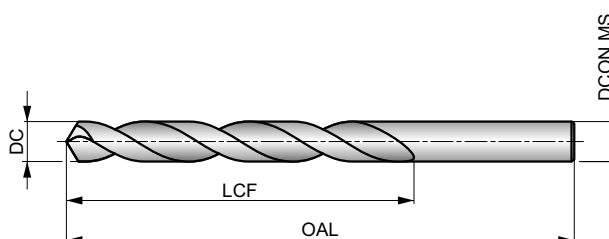


# A002



## Foret court en HSS, revêtement TiN en pointe

Foret polyvalent pour le perçage à la main et sur machines. Une pointe spéciale à 118° avec affûtage en croix aide à l'auto-centrage du foret lors du perçage à la main et fournit un trou de taille plus précise. Convient à de nombreux matériaux. Le revêtement TiN en pointe améliore les performances et prolonge la durée de vie de l'outil.



HSS	DIN 338	4xD
118°	TiN-Tip	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 46 J	<b>P1.2</b> ■ 52 J	<b>P1.3</b> ■ 54 J	<b>P2.1</b> ■ 40 J	<b>P2.2</b> ■ 35 F	<b>P2.3</b> ■ 31 F	<b>P3.1</b> ■ 27 F	<b>P3.2</b> ■ 21 F	<b>P3.3</b> ■ 18 F	<b>P4.1</b> ■ 16 F	<b>P4.2</b> ■ 13 F	<b>P4.3</b> ■ 11 E	<b>M1.1</b> ■ 27 F	<b>M1.2</b> ■ 23 F
<b>M2.1</b> ■ 24 F	<b>M2.2</b> ■ 20 F	<b>M3.1</b> ■ 14 G	<b>M3.2</b> ■ 12 G	<b>M3.3</b> ■ 11 G	<b>M4.1</b> ■ 16 C	<b>K1.1</b> ■ 40 J	<b>K1.2</b> ■ 30 E	<b>K1.3</b> ■ 22 E	<b>K2.1</b> ■ 34 E	<b>K2.2</b> ■ 28 E	<b>K2.3</b> ■ 22 E	<b>K3.1</b> ■ 30 E	<b>K3.2</b> ■ 23 E
<b>K3.3</b> ■ 19 E	<b>K4.1</b> ■ 28 E	<b>K4.2</b> ■ 21 E	<b>K4.3</b> ■ 16 E	<b>K4.4</b> ■ 13 E	<b>K4.5</b> ■ 11 E	<b>K5.1</b> ■ 32 E	<b>K5.2</b> ■ 24 E	<b>K5.3</b> ■ 19 E	<b>N1.1</b> ■ 41 K	<b>N1.2</b> ■ 31 K	<b>N1.3</b> ■ 21 J	<b>N2.1</b> ■ 51 I	<b>N2.2</b> ■ 46 I
<b>N2.3</b> ■ 33 I	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 I	<b>N4.2</b> ■ 50 H	<b>N4.3</b> ■ 35 F	<b>S1.1</b> ■ 23 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 9 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 7 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 2 A												

DC < 2mm Brillant; DC >= 2mm revêtu TiN en pointe avec affûtage en croix.  
Les produits de cette série sont également disponibles en coffret. Voir A087, A089, A094, A095 ou A099.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A0021.0	—	1.00	0.0394	12.0	34.0	1.00
A0021.1	—	1.10	0.0433	14.0	36.0	1.10
A0023/64	3/64	1.19	0.0469	16.0	38.0	1.19
A0021.2	—	1.20	0.0472	16.0	38.0	1.20
A0021.3	—	1.30	0.0512	16.0	38.0	1.30
A0021.4	—	1.40	0.0551	18.0	40.0	1.40
A0021.5	—	1.50	0.0591	18.0	40.0	1.50
A0021/16	1/16	1.59	0.0625	20.0	43.0	1.59
A0021.6	—	1.60	0.0630	20.0	43.0	1.60
A0021.7	—	1.70	0.0669	20.0	43.0	1.70
A0021.8	—	1.80	0.0709	22.0	46.0	1.80
A0021.9	—	1.90	0.0748	22.0	46.0	1.90
A0025/64	5/64	1.98	0.0781	24.0	49.0	1.98
A0022.0	—	2.00	0.0787	24.0	49.0	2.00
A0022.1	—	2.10	0.0827	24.0	49.0	2.10
A0022.2	—	2.20	0.0866	27.0	53.0	2.20
A0022.3	—	2.30	0.0906	27.0	53.0	2.30
A0023/32	3/32	2.38	0.0938	30.0	57.0	2.38
A0022.4	—	2.40	0.0945	30.0	57.0	2.40
A0022.5	—	2.50	0.0984	30.0	57.0	2.50
A0022.6	—	2.60	0.1024	30.0	57.0	2.60
A0022.7	—	2.70	0.1063	33.0	61.0	2.70
A0027/64	7/64	2.78	0.1094	33.0	61.0	2.78
A0022.8	—	2.80	0.1102	33.0	61.0	2.80

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A0022.9	—	2.90	0.1142	33.0	61.0	2.90
A0023.0	—	3.00	0.1181	33.0	61.0	3.00
A0023.1	—	3.10	0.1220	36.0	65.0	3.10
A0021/8	1/8	3.18	0.1250	36.0	65.0	3.18
A0023.2	—	3.20	0.1260	36.0	65.0	3.20
A0023.25	—	3.25	0.1280	36.0	65.0	3.25
A0023.3	—	3.30	0.1299	36.0	65.0	3.30
A0023.4	—	3.40	0.1339	39.0	70.0	3.40
A0023.5	—	3.50	0.1378	39.0	70.0	3.50
A0029/64	9/64	3.57	0.1406	39.0	70.0	3.57
A0023.6	—	3.60	0.1417	39.0	70.0	3.60
A0023.7	—	3.70	0.1457	39.0	70.0	3.70
A0023.8	—	3.80	0.1496	43.0	75.0	3.80
A0023.9	—	3.90	0.1535	43.0	75.0	3.90
A0025/32	5/32	3.97	0.1563	43.0	75.0	3.97
A0024.0	—	4.00	0.1575	43.0	75.0	4.00
A0024.1	—	4.10	0.1614	43.0	75.0	4.10
A0024.2	—	4.20	0.1654	43.0	75.0	4.20
A0024.3	—	4.30	0.1693	47.0	80.0	4.30
A00211/64	11/64	4.37	0.1719	47.0	80.0	4.37
A0024.4	—	4.40	0.1732	47.0	80.0	4.40
A0024.5	—	4.50	0.1772	47.0	80.0	4.50
A0024.6	—	4.60	0.1811	47.0	80.0	4.60
A0024.7	—	4.70	0.1850	47.0	80.0	4.70



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A0023/16	3/16	4.76	0.1875	52.0	86.0	4.76
A0024.8	–	4.80	0.1890	52.0	86.0	4.80
A0024.9	–	4.90	0.1929	52.0	86.0	4.90
A0025.0	–	5.00	0.1969	52.0	86.0	5.00
A0025.1	–	5.10	0.2008	52.0	86.0	5.10
A00213/64	13/64	5.16	0.2031	52.0	86.0	5.16
A0025.2	–	5.20	0.2047	52.0	86.0	5.20
A0025.3	–	5.30	0.2087	52.0	86.0	5.30
A0025.4	–	5.40	0.2126	57.0	93.0	5.40
A0025.5	–	5.50	0.2165	57.0	93.0	5.50
A0027/32	7/32	5.56	0.2188	57.0	93.0	5.56
A0025.6	–	5.60	0.2205	57.0	93.0	5.60
A0025.7	–	5.70	0.2244	57.0	93.0	5.70
A0025.8	–	5.80	0.2283	57.0	93.0	5.80
A0025.9	–	5.90	0.2323	57.0	93.0	5.90
A00215/64	15/64	5.95	0.2344	57.0	93.0	5.95
A0026.0	–	6.00	0.2362	57.0	93.0	6.00
A0026.1	–	6.10	0.2402	63.0	101.0	6.10
A0026.2	–	6.20	0.2441	63.0	101.0	6.20
A0026.3	–	6.30	0.2480	63.0	101.0	6.30
A0021/4	1/4	6.35	0.2500	63.0	101.0	6.35
A0026.4	–	6.40	0.2520	63.0	101.0	6.40
A0026.5	–	6.50	0.2559	63.0	101.0	6.50
A0026.6	–	6.60	0.2598	63.0	101.0	6.60
A0026.7	–	6.70	0.2638	63.0	101.0	6.70
A00217/64	17/64	6.75	0.2656	69.0	109.0	6.75
A0026.8	–	6.80	0.2677	69.0	109.0	6.80
A0026.9	–	6.90	0.2717	69.0	109.0	6.90
A0027.0	–	7.00	0.2756	69.0	109.0	7.00
A0027.1	–	7.10	0.2795	69.0	109.0	7.10
A0029/32	9/32	7.14	0.2813	69.0	109.0	7.14
A0027.2	–	7.20	0.2835	69.0	109.0	7.20
A0027.3	–	7.30	0.2874	69.0	109.0	7.30
A0027.4	–	7.40	0.2913	69.0	109.0	7.40
A0027.5	–	7.50	0.2953	69.0	109.0	7.50
A00219/64	19/64	7.54	0.2969	75.0	117.0	7.54
A0027.6	–	7.60	0.2992	75.0	117.0	7.60
A0027.7	–	7.70	0.3031	75.0	117.0	7.70
A0027.8	–	7.80	0.3071	75.0	117.0	7.80
A0027.9	–	7.90	0.3110	75.0	117.0	7.90
A0025/16	5/16	7.94	0.3125	75.0	117.0	7.94
A0028.0	–	8.00	0.3150	75.0	117.0	8.00
A0028.1	–	8.10	0.3189	75.0	117.0	8.10
A0028.2	–	8.20	0.3228	75.0	117.0	8.20
A0028.3	–	8.30	0.3268	75.0	117.0	8.30
A00221/64	21/64	8.33	0.3281	75.0	117.0	8.33
A0028.4	–	8.40	0.3307	75.0	117.0	8.40
A0028.5	–	8.50	0.3346	75.0	117.0	8.50
A0028.6	–	8.60	0.3386	81.0	125.0	8.60
A0028.7	–	8.70	0.3425	81.0	125.0	8.70
A00211/32	11/32	8.73	0.3438	81.0	125.0	8.73
A0028.8	–	8.80	0.3465	81.0	125.0	8.80
A0028.9	–	8.90	0.3504	81.0	125.0	8.90
A0029.0	–	9.00	0.3543	81.0	125.0	9.00
A0029.1	–	9.10	0.3583	81.0	125.0	9.10
A00223/64	23/64	9.13	0.3594	81.0	125.0	9.13
A0029.2	–	9.20	0.3622	81.0	125.0	9.20
A0029.3	–	9.30	0.3661	81.0	125.0	9.30
A0029.4	–	9.40	0.3701	81.0	125.0	9.40
A0029.5	–	9.50	0.3740	81.0	125.0	9.50
A0023/8	3/8	9.52	0.3750	87.0	133.0	9.52
A0029.6	–	9.60	0.3780	87.0	133.0	9.60
A0029.7	–	9.70	0.3819	87.0	133.0	9.70
A0029.8	–	9.80	0.3858	87.0	133.0	9.80
A0029.9	–	9.90	0.3898	87.0	133.0	9.90
A00225/64	25/64	9.92	0.3906	87.0	133.0	9.92
A00210.0	–	10.00	0.3937	87.0	133.0	10.00

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A00210.1	–	10.10	0.3976	87.0	133.0	10.10
A00210.2	–	10.20	0.4016	87.0	133.0	10.20
A00210.3	–	10.30	0.4055	87.0	133.0	10.30
A00213/32	13/32	10.32	0.4063	87.0	133.0	10.32
A00210.4	–	10.40	0.4094	87.0	133.0	10.40
A00210.5	–	10.50	0.4134	87.0	133.0	10.50
A00210.6	–	10.60	0.4173	87.0	133.0	10.60
A00210.7	–	10.70	0.4213	94.0	142.0	10.70
A00227/64	27/64	10.72	0.4219	94.0	142.0	10.72
A00210.8	–	10.80	0.4252	94.0	142.0	10.80
A00210.9	–	10.90	0.4291	94.0	142.0	10.90
A00211.0	–	11.00	0.4331	94.0	142.0	11.00
A00211.1	–	11.10	0.4370	94.0	142.0	11.10
A0027/16	7/16	11.11	0.4375	94.0	142.0	11.11
A00211.2	–	11.20	0.4409	94.0	142.0	11.20
A00211.3	–	11.30	0.4449	94.0	142.0	11.30
A00211.4	–	11.40	0.4488	94.0	142.0	11.40
A00211.5	–	11.50	0.4528	94.0	142.0	11.50
A00229/64	29/64	11.51	0.4531	94.0	142.0	11.51
A00211.6	–	11.60	0.4567	94.0	142.0	11.60
A00211.7	–	11.70	0.4606	94.0	142.0	11.70
A00211.8	–	11.80	0.4646	94.0	142.0	11.80
A00211.9	–	11.90	0.4685	101.0	151.0	11.90
A00215/32	15/32	11.91	0.4688	101.0	151.0	11.91
A00212.0	–	12.00	0.4724	101.0	151.0	12.00
A00212.1	–	12.10	0.4764	101.0	151.0	12.10
A00212.2	–	12.20	0.4803	101.0	151.0	12.20
A00212.3	–	12.30	0.4843	101.0	151.0	12.30
A00231/64	31/64	12.30	0.4844	101.0	151.0	12.30
A00212.4	–	12.40	0.4882	101.0	151.0	12.40
A00212.5	–	12.50	0.4921	101.0	151.0	12.50
A00212.6	–	12.60	0.4961	101.0	151.0	12.60
A00212.7	–	12.70	0.5000	101.0	151.0	12.70
A0021/2	1/2	12.70	0.5000	101.0	151.0	12.70
A00212.8	–	12.80	0.5039	101.0	151.0	12.80
A00212.9	–	12.90	0.5079	101.0	151.0	12.90
A00213.0	–	13.00	0.5118	101.0	151.0	13.00
A00233/64	33/64	13.10	0.5156	101.0	151.0	13.10
A00213.1	–	13.10	0.5157	101.0	151.0	13.10
A00213.2	–	13.20	0.5197	101.0	151.0	13.20
A00213.25	–	13.25	0.5217	108.0	160.0	13.25
A00213.3	–	13.30	0.5236	108.0	160.0	13.30
A00213.4	–	13.40	0.5276	108.0	160.0	13.40
A00217/32	17/32	13.49	0.5313	108.0	160.0	13.49
A00213.5	–	13.50	0.5315	108.0	160.0	13.50
A00213.6	–	13.60	0.5354	108.0	160.0	13.60
A00213.7	–	13.70	0.5394	108.0	160.0	13.70
A00213.75	–	13.75	0.5413	108.0	160.0	13.75
A00213.8	–	13.80	0.5433	108.0	160.0	13.80
A00235/64	35/64	13.89	0.5469	108.0	160.0	13.89
A00213.9	–	13.90	0.5472	108.0	160.0	13.90
A00214.0	–	14.00	0.5512	108.0	160.0	14.00
A00214.25	–	14.25	0.5610	114.0	169.0	14.25
A0029/16	9/16	14.29	0.5625	114.0	169.0	14.29
A00214.5	–	14.50	0.5709	114.0	169.0	14.50
A00237/64	37/64	14.68	0.5781	114.0	169.0	14.68
A00214.75	–	14.75	0.5807	114.0	169.0	14.75
A00215.0	–	15.00	0.5906	114.0	169.0	15.00
A00219/32	19/32	15.08	0.5938	120.0	178.0	15.08
A00215.25	–	15.25	0.6004	120.0	178.0	15.25
A00239/64	39/64	15.48	0.6094	120.0	178.0	15.48
A00215.5	–	15.50	0.6102	120.0	178.0	15.50
A00215.75	–	15.75	0.6201	120.0	178.0	15.75
A0025/8	5/8	15.88	0.6250	120.0	178.0	15.88
A00216.0	–	16.00	0.6299	120.0	178.0	16.00



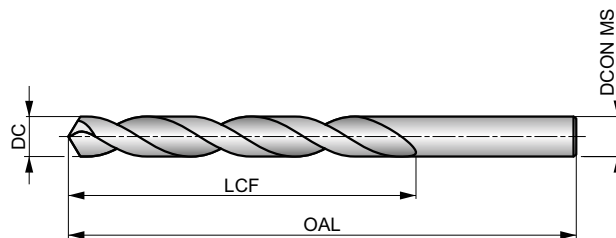


# A002S



## Foret court en HSS, revêtement TiN en pointe

Foret polyvalent pour le perçage à la main et sur machines, il est vendu à l'unité ou par 2 pièces (dia <=5 mm). Une pointe spéciale à 118° avec affûtage en croix aide à l'auto-centrage du foret lors du perçage à la main et fournit un trou de taille plus précise. Convient à de nombreux matériaux. Le revêtement TiN en pointe améliore les performances et prolonge la durée de vie de l'outil.



HSS	DIN 338	4xD
118°	TiN-Tip	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 46 J	<b>P1.2</b> ■ 52 J	<b>P1.3</b> ■ 54 J	<b>P2.1</b> ■ 40 J	<b>P2.2</b> ■ 35 F	<b>P2.3</b> ■ 31 F	<b>P3.1</b> ■ 27 F	<b>P3.2</b> ■ 21 F	<b>P3.3</b> ■ 18 F	<b>P4.1</b> ■ 16 F	<b>P4.2</b> ■ 13 F	<b>P4.3</b> ■ 11 E	<b>M1.1</b> ■ 27 F	<b>M1.2</b> ■ 23 F
<b>M2.1</b> ■ 24 F	<b>M2.2</b> ■ 20 F	<b>M3.1</b> ■ 14 G	<b>M3.2</b> ■ 12 G	<b>M3.3</b> ■ 11 G	<b>M4.1</b> ■ 16 C	<b>K1.1</b> ■ 40 J	<b>K1.2</b> ■ 30 E	<b>K1.3</b> ■ 22 E	<b>K2.1</b> ■ 34 E	<b>K2.2</b> ■ 28 E	<b>K2.3</b> ■ 22 E	<b>K3.1</b> ■ 30 E	<b>K3.2</b> ■ 23 E
<b>K3.3</b> ■ 19 E	<b>K4.1</b> ■ 28 E	<b>K4.2</b> ■ 21 E	<b>K4.3</b> ■ 16 E	<b>K4.4</b> ■ 13 E	<b>K4.5</b> ■ 11 E	<b>K5.1</b> ■ 32 E	<b>K5.2</b> ■ 24 E	<b>K5.3</b> ■ 19 E	<b>N1.1</b> ■ 41 K	<b>N1.2</b> ■ 31 K	<b>N1.3</b> ■ 21 J	<b>N2.1</b> ■ 51 I	<b>N2.2</b> ■ 46 I
<b>N2.3</b> ■ 33 I	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 I	<b>N4.2</b> ■ 50 H	<b>N4.3</b> ■ 35 F	<b>S1.1</b> ■ 23 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 9 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 7 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 2 A												

DC <= 5mm vendu par 2.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A002S2.0	-	2.00	0.0787	24.0	49.0	2.00
A002S2.5	-	2.50	0.0984	30.0	57.0	2.50
A002S3.0	-	3.00	0.1181	33.0	61.0	3.00
A002S1/8	1/8	3.18	0.1250	36.0	65.0	3.18
A002S3.2	-	3.20	0.1260	36.0	65.0	3.20
A002S3.3	-	3.30	0.1299	36.0	65.0	3.30
A002S3.5	-	3.50	0.1378	39.0	70.0	3.50
A002S5/32	5/32	3.97	0.1563	43.0	75.0	3.97
A002S4.0	-	4.00	0.1575	43.0	75.0	4.00
A002S4.1	-	4.10	0.1614	43.0	75.0	4.10
A002S4.2	-	4.20	0.1654	43.0	75.0	4.20
A002S4.5	-	4.50	0.1772	47.0	80.0	4.50
A002S3/16	3/16	4.76	0.1875	52.0	86.0	4.76
A002S5.0	-	5.00	0.1969	52.0	86.0	5.00
A002S13/64	13/64	5.16	0.2031	52.0	86.0	5.16
A002S5.5	-	5.50	0.2165	57.0	93.0	5.50
A002S7/32	7/32	5.56	0.2188	57.0	93.0	5.56
A002S6.0	-	6.00	0.2362	57.0	93.0	6.00
A002S1/4	1/4	6.35	0.2500	63.0	101.0	6.35
A002S6.5	-	6.50	0.2559	63.0	101.0	6.50

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A002S17/64	17/64	6.75	0.2656	69.0	109.0	6.75
A002S6.8	-	6.80	0.2677	69.0	109.0	6.80
A002S7.0	-	7.00	0.2756	69.0	109.0	7.00
A002S7.5	-	7.50	0.2953	69.0	109.0	7.50
A002S5/16	5/16	7.94	0.3125	75.0	117.0	7.94
A002S8.0	-	8.00	0.3150	75.0	117.0	8.00
A002S8.2	-	8.20	0.3228	75.0	117.0	8.20
A002S8.5	-	8.50	0.3346	75.0	117.0	8.50
A002S9.0	-	9.00	0.3543	81.0	125.0	9.00
A002S9.5	-	9.50	0.3740	81.0	125.0	9.50
A002S3/8	3/8	9.52	0.3750	87.0	133.0	9.52
A002S10.0	-	10.00	0.3937	87.0	133.0	10.00
A002S10.2	-	10.20	0.4016	87.0	133.0	10.20
A002S10.5	-	10.50	0.4134	87.0	133.0	10.50
A002S11.0	-	11.00	0.4331	94.0	142.0	11.00
A002S11.5	-	11.50	0.4528	94.0	142.0	11.50
A002S12.0	-	12.00	0.4724	101.0	151.0	12.00
A002S12.5	-	12.50	0.4921	101.0	151.0	12.50
A002S1/2	1/2	12.70	0.5000	101.0	151.0	12.70
A002S13.0	-	13.00	0.5118	101.0	151.0	13.00

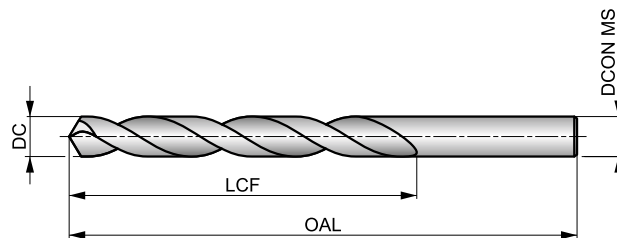


# A100



## Foret court en HSS, finition avec traitement vapeur

Un excellent foret polyvalent avec une pointe conventionnelle de 118° qui offre de la résistance et est facile à réaffûter, ce qui le rend très rentable. Utilisable pour le perçage manuel et sur machines. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient à de nombreux matériaux.



HSS	DIN 338	4xD
118°	ST	
20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 H	<b>P1.2</b> ■ 37 H	<b>P1.3</b> ■ 38 H	<b>P2.1</b> ■ 28 H	<b>P2.2</b> ■ 25 F	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 9 C	<b>K1.1</b> ■ 30 H	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 59 H	<b>N3.2</b> ■ 35 I	<b>N3.3</b> ■ 18 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 23 E	<b>S1.2</b> ■ 12 D	<b>S1.3</b> ■ 16 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 2 A												

DC ≤ 1mm; 3/64"; N60. Brillant.

Les produits de cette série sont également disponibles en coffret. Voir A190, A191 ou A199.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)	Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A100.2	—	0.20	0.0079	2.5	19.0	0.20	A100.6	—	0.60	0.0236	7.0	24.0	0.60
A100.25	—	0.25	0.0098	3.0	19.0	0.25	A100N73	N73	0.61	0.0240	8.0	26.0	0.61
A100.3	—	0.30	0.0118	3.0	19.0	0.30	A100.62	—	0.62	0.0244	8.0	26.0	0.62
A100.32	—	0.32	0.0126	4.0	19.0	0.32	A100N72	N72	0.64	0.0250	8.0	26.0	0.64
A100N80	N80	0.34	0.0135	4.0	19.0	0.34	A100.65	—	0.65	0.0256	8.0	26.0	0.65
A100.35	—	0.35	0.0138	4.0	19.0	0.35	A100N71	N71	0.66	0.0260	8.0	26.0	0.66
A100N79	N79	0.37	0.0145	4.0	19.0	0.37	A100.68	—	0.68	0.0268	9.0	28.0	0.68
A100.38	—	0.38	0.0150	4.0	19.0	0.38	A100.7	—	0.70	0.0276	9.0	28.0	0.70
A1001/64	1/64	0.40	0.0156	5.0	20.0	0.40	A100N70	N70	0.71	0.0280	9.0	28.0	0.71
A100.4	—	0.40	0.0157	5.0	20.0	0.40	A100.72	—	0.72	0.0283	9.0	28.0	0.72
A100N78	N78	0.41	0.0160	5.0	20.0	0.41	A100N69	N69	0.74	0.0292	9.0	28.0	0.74
A100.42	—	0.42	0.0165	5.0	20.0	0.42	A100.75	—	0.75	0.0295	9.0	28.0	0.75
A100.45	—	0.45	0.0177	5.0	20.0	0.45	A100.78	—	0.78	0.0307	10.0	30.0	0.78
A100N77	N77	0.46	0.0180	5.0	20.0	0.46	A1001/32	1/32	0.79	0.0313	10.0	30.0	0.79
A100.48	—	0.48	0.0189	5.0	20.0	0.48	A100N68	N68	0.79	0.0310	10.0	30.0	0.79
A100.5	—	0.50	0.0197	6.0	22.0	0.50	A100.8	—	0.80	0.0315	10.0	30.0	0.80
A100N76	N76	0.51	0.0200	6.0	22.0	0.51	A100N67	N67	0.81	0.0320	10.0	30.0	0.81
A100.52	—	0.52	0.0205	6.0	22.0	0.52	A100.82	—	0.82	0.0323	10.0	30.0	0.82
A100N75	N75	0.53	0.0210	6.0	22.0	0.53	A100N66	N66	0.84	0.0330	10.0	30.0	0.84
A100.55	—	0.55	0.0217	7.0	24.0	0.55	A100.85	—	0.85	0.0335	10.0	30.0	0.85
A100N74	N74	0.57	0.0225	7.0	24.0	0.57	A100.88	—	0.88	0.0346	11.0	32.0	0.88
A100.58	—	0.58	0.0228	7.0	24.0	0.58	A100N65	N65	0.89	0.0350	11.0	32.0	0.89



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A100.9	—	0.90	0.0354	11.0	32.0	0.90
A100N64	N64	0.91	0.0360	11.0	32.0	0.91
A100.92	—	0.92	0.0362	11.0	32.0	0.92
A100N63	N63	0.94	0.0370	11.0	32.0	0.94
A100.95	—	0.95	0.0374	11.0	32.0	0.95
A100N62	N62	0.97	0.0380	12.0	34.0	0.97
A100.98	—	0.98	0.0386	12.0	34.0	0.98
A100N61	N61	0.99	0.0390	12.0	34.0	0.99
A1001.0	—	1.00	0.0394	12.0	34.0	1.00
A100N60	N60	1.02	0.0400	12.0	34.0	1.02
A100N59	N59	1.04	0.0410	12.0	34.0	1.04
A1001.05	—	1.05	0.0413	12.0	34.0	1.05
A100N58	N58	1.07	0.0420	14.0	36.0	1.07
A100N57	N57	1.09	0.0430	14.0	36.0	1.09
A1001.1	—	1.10	0.0433	14.0	36.0	1.10
A1001.15	—	1.15	0.0453	14.0	36.0	1.15
A100N56	N56	1.18	0.0465	14.0	36.0	1.18
A1003/64	3/64	1.19	0.0469	16.0	38.0	1.19
A1001.2	—	1.20	0.0472	16.0	38.0	1.20
A1001.25	—	1.25	0.0492	16.0	38.0	1.25
A1001.3	—	1.30	0.0512	16.0	38.0	1.30
A100N55	N55	1.32	0.0520	16.0	38.0	1.32
A1001.35	—	1.35	0.0531	18.0	40.0	1.35
A1001.4	—	1.40	0.0551	18.0	40.0	1.40
A100N54	N54	1.40	0.0550	18.0	40.0	1.40
A1001.45	—	1.45	0.0571	18.0	40.0	1.45
A1001.5	—	1.50	0.0591	18.0	40.0	1.50
A100N53	N53	1.51	0.0595	20.0	43.0	1.51
A1001.55	—	1.55	0.0610	20.0	43.0	1.55
A1001/16	1/16	1.59	0.0625	20.0	43.0	1.59
A1001.6	—	1.60	0.0630	20.0	43.0	1.60
A100N52	N52	1.61	0.0635	20.0	43.0	1.61
A1001.65	—	1.65	0.0650	20.0	43.0	1.65
A1001.7	—	1.70	0.0669	20.0	43.0	1.70
A100N51	N51	1.70	0.0670	22.0	46.0	1.70
A1001.75	—	1.75	0.0689	22.0	46.0	1.75
A100N50	N50	1.78	0.0700	22.0	46.0	1.78
A1001.8	—	1.80	0.0709	22.0	46.0	1.80
A1001.85	—	1.85	0.0728	22.0	46.0	1.85
A100N49	N49	1.85	0.0730	22.0	46.0	1.85
A1001.9	—	1.90	0.0748	22.0	46.0	1.90
A100N48	N48	1.93	0.0760	24.0	49.0	1.93
A1001.95	—	1.95	0.0768	24.0	49.0	1.95
A1005/64	5/64	1.98	0.0781	24.0	49.0	1.98
A100N47	N47	1.99	0.0785	24.0	49.0	1.99
A1002.0	—	2.00	0.0787	24.0	49.0	2.00
A1002.05	—	2.05	0.0807	24.0	49.0	2.05
A100N46	N46	2.06	0.0810	24.0	49.0	2.06
A100N45	N45	2.08	0.0820	24.0	49.0	2.08
A1002.1	—	2.10	0.0827	24.0	49.0	2.10
A1002.15	—	2.15	0.0846	27.0	53.0	2.15
A100N44	N44	2.18	0.0860	27.0	53.0	2.18
A1002.2	—	2.20	0.0866	27.0	53.0	2.20
A1002.25	—	2.25	0.0886	27.0	53.0	2.25
A100N43	N43	2.26	0.0890	27.0	53.0	2.26
A1002.3	—	2.30	0.0906	27.0	53.0	2.30
A1002.35	—	2.35	0.0925	27.0	53.0	2.35
A1003/32	3/32	2.38	0.0938	30.0	57.0	2.38
A100N42	N42	2.38	0.0935	30.0	57.0	2.38
A1002.4	—	2.40	0.0945	30.0	57.0	2.40
A100N41	N41	2.44	0.0960	30.0	57.0	2.44
A1002.45	—	2.45	0.0965	30.0	57.0	2.45

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A100N40	N40	2.49	0.0980	30.0	57.0	2.49
A1002.5	—	2.50	0.0984	30.0	57.0	2.50
A100N39	N39	2.53	0.0995	30.0	57.0	2.53
A1002.55	—	2.55	0.1004	30.0	57.0	2.55
A100N38	N38	2.58	0.1015	30.0	57.0	2.58
A1002.6	—	2.60	0.1024	30.0	57.0	2.60
A100N37	N37	2.64	0.1040	30.0	57.0	2.64
A1002.65	—	2.65	0.1043	30.0	57.0	2.65
A1002.7	—	2.70	0.1063	33.0	61.0	2.70
A100N36	N36	2.71	0.1065	33.0	61.0	2.71
A1002.75	—	2.75	0.1083	33.0	61.0	2.75
A1007/64	7/64	2.78	0.1094	33.0	61.0	2.78
A100N35	N35	2.79	0.1100	33.0	61.0	2.79
A1002.8	—	2.80	0.1102	33.0	61.0	2.80
A100N34	N34	2.82	0.1110	33.0	61.0	2.82
A1002.85	—	2.85	0.1122	33.0	61.0	2.85
A100N33	N33	2.87	0.1130	33.0	61.0	2.87
A1002.9	—	2.90	0.1142	33.0	61.0	2.90
A1002.95	—	2.95	0.1161	33.0	61.0	2.95
A100N32	N32	2.95	0.1160	33.0	61.0	2.95
A1003.0	—	3.00	0.1181	33.0	61.0	3.00
A100N31	N31	3.05	0.1200	36.0	65.0	3.05
A1003.1	—	3.10	0.1220	36.0	65.0	3.10
A1003.15	—	3.15	0.1240	36.0	65.0	3.15
A1001/8	1/8	3.18	0.1250	36.0	65.0	3.18
A1003.2	—	3.20	0.1260	36.0	65.0	3.20
A1003.25	—	3.25	0.1280	36.0	65.0	3.25
A100N30	N30	3.26	0.1285	36.0	65.0	3.26
A1003.3	—	3.30	0.1299	36.0	65.0	3.30
A1003.4	—	3.40	0.1339	39.0	70.0	3.40
A100N29	N29	3.45	0.1360	39.0	70.0	3.45
A1003.5	—	3.50	0.1378	39.0	70.0	3.50
A1009/64	9/64	3.57	0.1406	39.0	70.0	3.57
A100N28	N28	3.57	0.1405	39.0	70.0	3.57
A1003.6	—	3.60	0.1417	39.0	70.0	3.60
A100N27	N27	3.66	0.1440	39.0	70.0	3.66
A1003.7	—	3.70	0.1457	39.0	70.0	3.70
A100N26	N26	3.73	0.1470	39.0	70.0	3.73
A1003.75	—	3.75	0.1476	39.0	70.0	3.75
A1003.8	—	3.80	0.1496	43.0	75.0	3.80
A100N25	N25	3.80	0.1495	43.0	75.0	3.80
A100N24	N24	3.86	0.1520	43.0	75.0	3.86
A1003.9	—	3.90	0.1535	43.0	75.0	3.90
A100N23	N23	3.91	0.1540	43.0	75.0	3.91
A1005/32	5/32	3.97	0.1563	43.0	75.0	3.97
A100N22	N22	3.99	0.1570	43.0	75.0	3.99
A1004.0	—	4.00	0.1575	43.0	75.0	4.00
A100N21	N21	4.04	0.1590	43.0	75.0	4.04
A100N20	N20	4.09	0.1610	43.0	75.0	4.09
A1004.1	—	4.10	0.1614	43.0	75.0	4.10
A1004.2	—	4.20	0.1654	43.0	75.0	4.20
A100N19	N19	4.22	0.1660	43.0	75.0	4.22
A1004.25	—	4.25	0.1673	43.0	75.0	4.25
A1004.3	—	4.30	0.1693	47.0	80.0	4.30
A100N18	N18	4.31	0.1695	47.0	80.0	4.31
A10011/64	11/64	4.37	0.1719	47.0	80.0	4.37
A100N17	N17	4.39	0.1730	47.0	80.0	4.39
A1004.4	—	4.40	0.1732	47.0	80.0	4.40
A1004.5	—	4.50	0.1772	47.0	80.0	4.50
A100N16	N16	4.50	0.1770	47.0	80.0	4.50
A100N15	N15	4.57	0.1800	47.0	80.0	4.57
A1004.6	—	4.60	0.1811	47.0	80.0	4.60



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A100N14	N14	4.62	0.1820	47.0	80.0	4.62
A1004.7	–	4.70	0.1850	47.0	80.0	4.70
A100N13	N13	4.70	0.1850	47.0	80.0	4.70
A1004.75	–	4.75	0.1870	47.0	80.0	4.75
A1003/16	3/16	4.76	0.1875	52.0	86.0	4.76
A1004.8	–	4.80	0.1890	52.0	86.0	4.80
A100N12	N12	4.80	0.1890	52.0	86.0	4.80
A100N11	N11	4.85	0.1910	52.0	86.0	4.85
A1004.9	–	4.90	0.1929	52.0	86.0	4.90
A100N10	N10	4.92	0.1935	52.0	86.0	4.92
A100N9	N9	4.98	0.1960	52.0	86.0	4.98
A1005.0	–	5.00	0.1969	52.0	86.0	5.00
A100N8	N8	5.06	0.1990	52.0	86.0	5.06
A1005.1	–	5.10	0.2008	52.0	86.0	5.10
A100N7	N7	5.11	0.2010	52.0	86.0	5.11
A10013/64	13/64	5.16	0.2031	52.0	86.0	5.16
A100N6	N6	5.18	0.2040	52.0	86.0	5.18
A1005.2	–	5.20	0.2047	52.0	86.0	5.20
A100N5	N5	5.22	0.2055	52.0	86.0	5.22
A1005.25	–	5.25	0.2067	52.0	86.0	5.25
A1005.3	–	5.30	0.2087	52.0	86.0	5.30
A100N4	N4	5.31	0.2090	57.0	93.0	5.31
A1005.4	–	5.40	0.2126	57.0	93.0	5.40
A100N3	N3	5.41	0.2130	57.0	93.0	5.41
A1005.5	–	5.50	0.2165	57.0	93.0	5.50
A1007/32	7/32	5.56	0.2188	57.0	93.0	5.56
A1005.6	–	5.60	0.2205	57.0	93.0	5.60
A100N2	N2	5.61	0.2210	57.0	93.0	5.61
A1005.7	–	5.70	0.2244	57.0	93.0	5.70
A1005.75	–	5.75	0.2264	57.0	93.0	5.75
A100N1	1	5.79	0.2280	57.0	93.0	5.79
A1005.8	–	5.80	0.2283	57.0	93.0	5.80
A1005.9	–	5.90	0.2323	57.0	93.0	5.90
A100A	A	5.94	0.2340	57.0	93.0	5.94
A10015/64	15/64	5.95	0.2344	57.0	93.0	5.95
A1006.0	–	6.00	0.2362	57.0	93.0	6.00
A100B	B	6.03	0.2380	63.0	101.0	6.03
A1006.1	–	6.10	0.2402	63.0	101.0	6.10
A100C	C	6.15	0.2420	63.0	101.0	6.15
A1006.2	–	6.20	0.2441	63.0	101.0	6.20
A1006.25	–	6.25	0.2461	63.0	101.0	6.25
A100D	D	6.25	0.2460	63.0	101.0	6.25
A1006.3	–	6.30	0.2480	63.0	101.0	6.30
A1001/4	1/4	6.35	0.2500	63.0	101.0	6.35
A100E	E	6.35	0.2500	63.0	101.0	6.35
A1006.4	–	6.40	0.2520	63.0	101.0	6.40
A1006.5	–	6.50	0.2559	63.0	101.0	6.50
A100F	F	6.53	0.2570	63.0	101.0	6.53
A1006.6	–	6.60	0.2598	63.0	101.0	6.60
A100G	G	6.63	0.2610	63.0	101.0	6.63
A1006.7	–	6.70	0.2638	63.0	101.0	6.70
A10017/64	17/64	6.75	0.2656	69.0	109.0	6.75
A1006.75	–	6.75	0.2657	69.0	109.0	6.75
A100H	H	6.76	0.2660	69.0	109.0	6.76
A1006.8	–	6.80	0.2677	69.0	109.0	6.80
A1006.9	–	6.90	0.2717	69.0	109.0	6.90
A100I	I	6.91	0.2720	69.0	109.0	6.91
A1007.0	–	7.00	0.2756	69.0	109.0	7.00
A100J	J	7.04	0.2770	69.0	109.0	7.04
A1007.1	–	7.10	0.2795	69.0	109.0	7.10
A1009/32	9/32	7.14	0.2813	69.0	109.0	7.14
A100K	K	7.14	0.2810	69.0	109.0	7.14

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1007.2	–	7.20	0.2835	69.0	109.0	7.20
A1007.25	–	7.25	0.2854	69.0	109.0	7.25
A1007.3	–	7.30	0.2874	69.0	109.0	7.30
A100L	L	7.37	0.2900	69.0	109.0	7.37
A1007.4	–	7.40	0.2913	69.0	109.0	7.40
A100M	M	7.49	0.2949	69.0	109.0	7.49
A1007.5	–	7.50	0.2953	69.0	109.0	7.50
A10019/64	19/64	7.54	0.2969	75.0	117.0	7.54
A1007.6	–	7.60	0.2992	75.0	117.0	7.60
A100N	N	7.67	0.3020	75.0	117.0	7.67
A1007.7	–	7.70	0.3031	75.0	117.0	7.70
A1007.75	–	7.75	0.3051	75.0	117.0	7.75
A1007.8	–	7.80	0.3071	75.0	117.0	7.80
A1007.9	–	7.90	0.3110	75.0	117.0	7.90
A1005/16	5/16	7.94	0.3125	75.0	117.0	7.94
A1008.0	–	8.00	0.3150	75.0	117.0	8.00
A100O	O	8.03	0.3160	75.0	117.0	8.03
A1008.1	–	8.10	0.3189	75.0	117.0	8.10
A1008.2	–	8.20	0.3228	75.0	117.0	8.20
A100P	P	8.20	0.3230	75.0	117.0	8.20
A1008.25	–	8.25	0.3248	75.0	117.0	8.25
A1008.3	–	8.30	0.3268	75.0	117.0	8.30
A10021/64	21/64	8.33	0.3281	75.0	117.0	8.33
A1008.4	–	8.40	0.3307	75.0	117.0	8.40
A100Q	Q	8.43	0.3320	75.0	117.0	8.43
A1008.5	–	8.50	0.3346	75.0	117.0	8.50
A1008.6	–	8.60	0.3386	81.0	125.0	8.60
A100R	R	8.61	0.3390	81.0	125.0	8.61
A1008.7	–	8.70	0.3425	81.0	125.0	8.70
A10011/32	11/32	8.73	0.3438	81.0	125.0	8.73
A1008.75	–	8.75	0.3445	81.0	125.0	8.75
A1008.8	–	8.80	0.3465	81.0	125.0	8.80
A100S	S	8.84	0.3480	81.0	125.0	8.84
A1008.9	–	8.90	0.3504	81.0	125.0	8.90
A1009.0	–	9.00	0.3543	81.0	125.0	9.00
A100T	T	9.09	0.3580	81.0	125.0	9.09
A1009.1	–	9.10	0.3583	81.0	125.0	9.10
A10023/64	23/64	9.13	0.3594	81.0	125.0	9.13
A1009.2	–	9.20	0.3622	81.0	125.0	9.20
A1009.25	–	9.25	0.3642	81.0	125.0	9.25
A1009.3	–	9.30	0.3661	81.0	125.0	9.30
A100U	U	9.35	0.3680	81.0	125.0	9.35
A1009.4	–	9.40	0.3701	81.0	125.0	9.40
A1009.5	–	9.50	0.3740	81.0	125.0	9.50
A1003/8	3/8	9.52	0.3750	87.0	133.0	9.52
A100V	V	9.58	0.3770	87.0	133.0	9.58
A1009.6	–	9.60	0.3780	87.0	133.0	9.60
A1009.7	–	9.70	0.3819	87.0	133.0	9.70
A1009.75	–	9.75	0.3839	87.0	133.0	9.75
A1009.8	–	9.80	0.3858	87.0	133.0	9.80
A100W	W	9.80	0.3860	87.0	133.0	9.80
A1009.9	–	9.90	0.3898	87.0	133.0	9.90
A10025/64	25/64	9.92	0.3906	87.0	133.0	9.92
A10010.0	–	10.00	0.3937	87.0	133.0	10.00
A100X	X	10.08	0.3970	87.0	133.0	10.08
A10010.1	–	10.10	0.3976	87.0	133.0	10.10
A10010.2	–	10.20	0.4016	87.0	133.0	10.20
A10010.25	–	10.25	0.4035	87.0	133.0	10.25
A100Y	Y	10.26	0.4040	87.0	133.0	10.26
A10010.3	–	10.30	0.4055	87.0	133.0	10.30
A10013/32	13/32	10.32	0.4063	87.0	133.0	10.32
A10010.4	–	10.40	0.4094	87.0	133.0	10.40



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
<b>A100Z</b>	Z	10.49	0.4130	87.0	133.0	10.49
<b>A10010.5</b>	–	10.50	0.4134	87.0	133.0	10.50
<b>A10010.6</b>	–	10.60	0.4173	87.0	133.0	10.60
<b>A10010.7</b>	–	10.70	0.4213	94.0	142.0	10.70
<b>A10027/64</b>	27/64	10.72	0.4219	94.0	142.0	10.72
<b>A10010.75</b>	–	10.75	0.4232	94.0	142.0	10.75
<b>A10010.8</b>	–	10.80	0.4252	94.0	142.0	10.80
<b>A10010.9</b>	–	10.90	0.4291	94.0	142.0	10.90
<b>A10011.0</b>	–	11.00	0.4331	94.0	142.0	11.00
<b>A10011.1</b>	–	11.10	0.4370	94.0	142.0	11.10
<b>A1007/16</b>	7/16	11.11	0.4375	94.0	142.0	11.11
<b>A10011.2</b>	–	11.20	0.4409	94.0	142.0	11.20
<b>A10011.25</b>	–	11.25	0.4429	94.0	142.0	11.25
<b>A10011.3</b>	–	11.30	0.4449	94.0	142.0	11.30
<b>A10011.4</b>	–	11.40	0.4488	94.0	142.0	11.40
<b>A10011.5</b>	–	11.50	0.4528	94.0	142.0	11.50
<b>A10029/64</b>	29/64	11.51	0.4531	94.0	142.0	11.51
<b>A10011.6</b>	–	11.60	0.4567	94.0	142.0	11.60
<b>A10011.7</b>	–	11.70	0.4606	94.0	142.0	11.70
<b>A10011.75</b>	–	11.75	0.4626	94.0	142.0	11.75
<b>A10011.8</b>	–	11.80	0.4646	94.0	142.0	11.80
<b>A10011.9</b>	–	11.90	0.4685	101.0	151.0	11.90
<b>A10015/32</b>	15/32	11.91	0.4688	101.0	151.0	11.91
<b>A10012.0</b>	–	12.00	0.4724	101.0	151.0	12.00
<b>A10012.1</b>	–	12.10	0.4764	101.0	151.0	12.10
<b>A10012.2</b>	–	12.20	0.4803	101.0	151.0	12.20
<b>A10012.25</b>	–	12.25	0.4823	101.0	151.0	12.25
<b>A10012.3</b>	–	12.30	0.4843	101.0	151.0	12.30
<b>A10031/64</b>	31/64	12.30	0.4844	101.0	151.0	12.30
<b>A10012.4</b>	–	12.40	0.4882	101.0	151.0	12.40
<b>A10012.5</b>	–	12.50	0.4921	101.0	151.0	12.50
<b>A10012.6</b>	–	12.60	0.4961	101.0	151.0	12.60
<b>A10012.7</b>	–	12.70	0.5000	101.0	151.0	12.70
<b>A1001/2</b>	1/2	12.70	0.5000	101.0	151.0	12.70
<b>A10012.75</b>	–	12.75	0.5020	101.0	151.0	12.75
<b>A10012.8</b>	–	12.80	0.5039	101.0	151.0	12.80
<b>A10012.9</b>	–	12.90	0.5079	101.0	151.0	12.90
<b>A10013.0</b>	–	13.00	0.5118	101.0	151.0	13.00
<b>A10033/64</b>	33/64	13.10	0.5156	101.0	151.0	13.10

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
<b>A10013.1</b>	–	13.10	0.5157	101.0	151.0	13.10
<b>A10013.2</b>	–	13.20	0.5197	101.0	151.0	13.20
<b>A10013.25</b>	–	13.25	0.5217	108.0	160.0	13.25
<b>A10013.3</b>	–	13.30	0.5236	108.0	160.0	13.30
<b>A10013.4</b>	–	13.40	0.5276	108.0	160.0	13.40
<b>A10017/32</b>	17/32	13.49	0.5313	108.0	160.0	13.49
<b>A10013.5</b>	–	13.50	0.5315	108.0	160.0	13.50
<b>A10013.6</b>	–	13.60	0.5354	108.0	160.0	13.60
<b>A10013.7</b>	–	13.70	0.5394	108.0	160.0	13.70
<b>A10013.75</b>	–	13.75	0.5413	108.0	160.0	13.75
<b>A10013.8</b>	–	13.80	0.5433	108.0	160.0	13.80
<b>A10035/64</b>	35/64	13.89	0.5469	108.0	160.0	13.89
<b>A10013.9</b>	–	13.90	0.5472	108.0	160.0	13.90
<b>A10014.0</b>	–	14.00	0.5512	108.0	160.0	14.00
<b>A10014.25</b>	–	14.25	0.5610	114.0	169.0	14.25
<b>A1009/16</b>	9/16	14.29	0.5625	114.0	169.0	14.29
<b>A10014.5</b>	–	14.50	0.5709	114.0	169.0	14.50
<b>A10037/64</b>	37/64	14.68	0.5781	114.0	169.0	14.68
<b>A10014.75</b>	–	14.75	0.5807	114.0	169.0	14.75
<b>A10015.0</b>	–	15.00	0.5906	114.0	169.0	15.00
<b>A10019/32</b>	19/32	15.08	0.5938	120.0	178.0	15.08
<b>A10015.25</b>	–	15.25	0.6004	120.0	178.0	15.25
<b>A10039/64</b>	39/64	15.48	0.6094	120.0	178.0	15.48
<b>A10015.5</b>	–	15.50	0.6102	120.0	178.0	15.50
<b>A10015.75</b>	–	15.75	0.6201	120.0	178.0	15.75
<b>A1005/8</b>	5/8	15.88	0.6250	120.0	178.0	15.88
<b>A10016.0</b>	–	16.00	0.6299	120.0	178.0	16.00
<b>A10041/64</b>	41/64	16.27	0.6406	125.0	184.0	16.27
<b>A10016.5</b>	–	16.50	0.6496	125.0	184.0	16.50
<b>A10021/32</b>	21/32	16.67	0.6563	125.0	184.0	16.67
<b>A10017.0</b>	–	17.00	0.6693	125.0	184.0	17.00
<b>A10043/64</b>	43/64	17.07	0.6719	130.0	191.0	17.07
<b>A10011/16</b>	11/16	17.46	0.6875	130.0	191.0	17.46
<b>A10017.5</b>	–	17.50	0.6890	130.0	191.0	17.50
<b>A10018.0</b>	–	18.00	0.7087	130.0	191.0	18.00
<b>A10018.5</b>	–	18.50	0.7283	135.0	198.0	18.50
<b>A10019.0</b>	–	19.00	0.7480	135.0	198.0	19.00
<b>A10019.5</b>	–	19.50	0.7677	140.0	205.0	19.50
<b>A10020.0</b>	–	20.00	0.7874	140.0	205.0	20.00

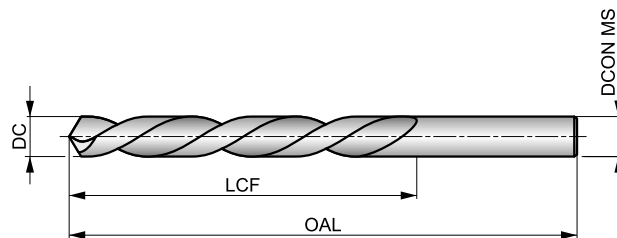


# A101



## Foret court à gauche en HSS, finition avec traitement vapeur

Foret polyvalent à gauche avec finition traitement vapeur pour le perçage à la main et sur machines. La pointe conventionnelle à 118° est résistante et facile à réaffûter ce qui la rend très rentable. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. Convient pour le perçage de nombreux matériaux.



HSS	DIN 338	4xD
118°	ST	
20-35°	L	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 H	<b>P1.2</b> ■ 37 H	<b>P1.3</b> ■ 38 H	<b>P2.1</b> ■ 28 H	<b>P2.2</b> ■ 25 F	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 9 C	<b>K1.1</b> ■ 30 H	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 59 H	<b>N3.2</b> ■ 35 I	<b>N3.3</b> ■ 18 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 23 E	<b>S1.2</b> ■ 12 D	<b>S1.3</b> ■ 16 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 2 A												

DC <= 3mm Brillant.

Produit	DC	DC	LCF	OAL	DCON MS	Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)					(mm)	(mm)			
A1011.0	1.00	0.0394	12.0	34.0	1.00	A1013.2	3.20	0.1260	36.0	65.0	3.20
A1011.1	1.10	0.0433	14.0	36.0	1.10	A1013.3	3.30	0.1299	36.0	65.0	3.30
A1011.2	1.20	0.0472	16.0	38.0	1.20	A1013.5	3.50	0.1378	39.0	70.0	3.50
A1011.25	1.25	0.0492	16.0	38.0	1.25	A1013.8	3.80	0.1496	43.0	75.0	3.80
A1011.3	1.30	0.0512	16.0	38.0	1.30	A1014.0	4.00	0.1575	43.0	75.0	4.00
A1011.4	1.40	0.0551	18.0	40.0	1.40	A1014.2	4.20	0.1654	43.0	75.0	4.20
A1011.5	1.50	0.0591	18.0	40.0	1.50	A1014.5	4.50	0.1772	47.0	80.0	4.50
A1011.6	1.60	0.0630	20.0	43.0	1.60	A1014.8	4.80	0.1890	52.0	86.0	4.80
A1011.7	1.70	0.0669	20.0	43.0	1.70	A1015.0	5.00	0.1969	52.0	86.0	5.00
A1011.8	1.80	0.0709	22.0	46.0	1.80	A1015.1	5.10	0.2008	52.0	86.0	5.10
A1011.9	1.90	0.0748	22.0	46.0	1.90	A1015.2	5.20	0.2047	52.0	86.0	5.20
A1012.0	2.00	0.0787	24.0	49.0	2.00	A1015.5	5.50	0.2165	57.0	93.0	5.50
A1012.1	2.10	0.0827	24.0	49.0	2.10	A1016.0	6.00	0.2362	57.0	93.0	6.00
A1012.2	2.20	0.0866	27.0	53.0	2.20	A1016.5	6.50	0.2559	63.0	101.0	6.50
A1012.3	2.30	0.0906	27.0	53.0	2.30	A1017.0	7.00	0.2756	69.0	109.0	7.00
A1012.4	2.40	0.0945	30.0	57.0	2.40	A1017.5	7.50	0.2953	69.0	109.0	7.50
A1012.5	2.50	0.0984	30.0	57.0	2.50	A1018.0	8.00	0.3150	75.0	117.0	8.00
A1012.6	2.60	0.1024	30.0	57.0	2.60	A1018.5	8.50	0.3346	75.0	117.0	8.50
A1012.7	2.70	0.1063	33.0	61.0	2.70	A1019.0	9.00	0.3543	81.0	125.0	9.00
A1012.8	2.80	0.1102	33.0	61.0	2.80	A10110.0	10.00	0.3937	87.0	133.0	10.00
A1012.9	2.90	0.1142	33.0	61.0	2.90	A10111.0	11.00	0.4331	94.0	142.0	11.00
A1013.0	3.00	0.1181	33.0	61.0	3.00	A10112.0	12.00	0.4724	101.0	151.0	12.00

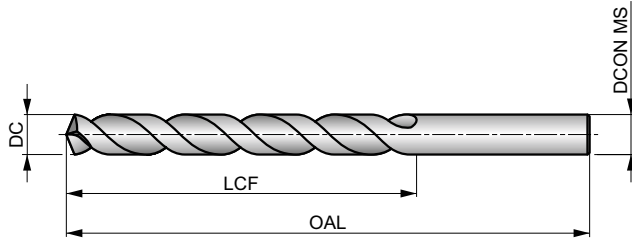


# A108



## Foret court en HSS, finition avec traitement vapeur (conçu pour l'acier inoxydable)

Foret premier choix pour le perçage de l'acier inoxydable avec des applications manuelles mais peut également être utilisé efficacement sur machines. Sa pointe à 135° avec affûtage en croix facilite l'auto-centrage et réduit les forces de coupe. La finition avec traitement vapeur aide à empêcher le matériau de la pièce de coller aux arêtes de coupe.



HSS	DIN 338	4xD
135°	ST	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> 33 I	<b>P1.2</b> 37 I	<b>P1.3</b> 38 I	<b>P2.1</b> 28 I	<b>P2.2</b> 25 G	<b>P2.3</b> 22 E	<b>P3.1</b> 19 F	<b>P3.2</b> 15 F	<b>P3.3</b> 13 E	<b>P4.1</b> 11 F	<b>P4.2</b> 10 E	<b>P4.3</b> 8 D	<b>M1.1</b> 21 E	<b>M1.2</b> 17 E
<b>M2.1</b> 18 E	<b>M2.2</b> 15 E	<b>M3.1</b> 10 G	<b>M3.2</b> 9 G	<b>M3.3</b> 8 G	<b>M4.1</b> 10 D	<b>K1.1</b> 30 H	<b>K1.2</b> 22 F	<b>K1.3</b> 17 F	<b>K2.1</b> 25 E	<b>K2.2</b> 20 E	<b>K2.3</b> 16 E	<b>K3.1</b> 22 E	<b>K3.2</b> 17 E
<b>K3.3</b> 13 E	<b>K4.1</b> 20 E	<b>K4.2</b> 15 E	<b>K4.3</b> 11 E	<b>K4.4</b> 10 E	<b>K4.5</b> 8 E	<b>K5.1</b> 23 E	<b>K5.2</b> 17 E	<b>K5.3</b> 13 E	<b>N1.1</b> 33 J	<b>N1.2</b> 25 J	<b>N1.3</b> 17 I	<b>N2.1</b> 42 H	<b>N2.2</b> 37 H
<b>N2.3</b> 27 H	<b>N3.1</b> 59 H	<b>N3.2</b> 35 I	<b>N3.3</b> 18 G	<b>N4.1</b> 30 J	<b>N4.2</b> 28 H	<b>N4.3</b> 14 F	<b>S1.1</b> 25 G	<b>S1.2</b> 16 E	<b>S1.3</b> 7 B	<b>S2.1</b> 9 G	<b>S2.2</b> 8 E	<b>S3.1</b> 7 G	<b>S3.2</b> 6 E
<b>S4.1</b> 5 G	<b>S4.2</b> 5 E												

DC > 1.5mm (1/16") avec affûtage en croix.

Les produits de cette série sont également disponibles en coffret. Voir A188.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1081.0	—	1.00	0.0394	12.0	34.0	1.00
A1081.1	—	1.10	0.0433	14.0	36.0	1.10
A1081.2	—	1.20	0.0472	16.0	38.0	1.20
A1081.3	—	1.30	0.0512	16.0	38.0	1.30
A1081.4	—	1.40	0.0551	18.0	40.0	1.40
A1081.5	—	1.50	0.0591	18.0	40.0	1.50
A1081/16	1/16	1.59	0.0625	20.0	43.0	1.59
A1081.6	—	1.60	0.0630	20.0	43.0	1.60
A1081.7	—	1.70	0.0669	20.0	43.0	1.70
A1081.8	—	1.80	0.0709	22.0	46.0	1.80
A1081.9	—	1.90	0.0748	22.0	46.0	1.90
A1085/64	5/64	1.98	0.0781	24.0	49.0	1.98
A1082.0	—	2.00	0.0787	24.0	49.0	2.00
A1082.1	—	2.10	0.0827	24.0	49.0	2.10
A1082.2	—	2.20	0.0866	27.0	53.0	2.20
A1082.3	—	2.30	0.0906	27.0	53.0	2.30
A1083/32	3/32	2.38	0.0938	30.0	57.0	2.38
A1082.4	—	2.40	0.0945	30.0	57.0	2.40
A1082.5	—	2.50	0.0984	30.0	57.0	2.50
A1082.6	—	2.60	0.1024	30.0	57.0	2.60
A1082.7	—	2.70	0.1063	33.0	61.0	2.70
A1087/64	7/64	2.78	0.1094	33.0	61.0	2.78

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1082.8	—	2.80	0.1102	33.0	61.0	2.80
A1082.9	—	2.90	0.1142	33.0	61.0	2.90
A1083.0	—	3.00	0.1181	33.0	61.0	3.00
A1083.1	—	3.10	0.1220	36.0	65.0	3.10
A1081/8	1/8	3.18	0.1250	36.0	65.0	3.18
A1083.2	—	3.20	0.1260	36.0	65.0	3.20
A1083.3	—	3.30	0.1299	36.0	65.0	3.30
A1083.4	—	3.40	0.1339	39.0	70.0	3.40
A1083.5	—	3.50	0.1378	39.0	70.0	3.50
A1089/64	9/64	3.57	0.1406	39.0	70.0	3.57
A1083.6	—	3.60	0.1417	39.0	70.0	3.60
A1083.7	—	3.70	0.1457	39.0	70.0	3.70
A1083.8	—	3.80	0.1496	43.0	75.0	3.80
A1083.9	—	3.90	0.1535	43.0	75.0	3.90
A1085/32	5/32	3.97	0.1563	43.0	75.0	3.97
A1084.0	—	4.00	0.1575	43.0	75.0	4.00
A1084.1	—	4.10	0.1614	43.0	75.0	4.10
A1084.2	—	4.20	0.1654	43.0	75.0	4.20
A1084.3	—	4.30	0.1693	47.0	80.0	4.30
A10811/64	11/64	4.37	0.1719	47.0	80.0	4.37
A1084.4	—	4.40	0.1732	47.0	80.0	4.40
A1084.5	—	4.50	0.1772	47.0	80.0	4.50



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1084.6	–	4.60	0.1811	47.0	80.0	4.60
A1084.7	–	4.70	0.1850	47.0	80.0	4.70
A1083/16	3/16	4.76	0.1875	52.0	86.0	4.76
A1084.8	–	4.80	0.1890	52.0	86.0	4.80
A1084.9	–	4.90	0.1929	52.0	86.0	4.90
A108N10	N10	4.92	0.1935	52.0	86.0	4.92
A1085.0	–	5.00	0.1969	52.0	86.0	5.00
A1085.1	–	5.10	0.2008	52.0	86.0	5.10
A10813/64	13/64	5.16	0.2031	52.0	86.0	5.16
A1085.2	–	5.20	0.2047	52.0	86.0	5.20
A1085.3	–	5.30	0.2087	52.0	86.0	5.30
A1085.4	–	5.40	0.2126	57.0	93.0	5.40
A1085.5	–	5.50	0.2165	57.0	93.0	5.50
A1087/32	7/32	5.56	0.2188	57.0	93.0	5.56
A1085.6	–	5.60	0.2205	57.0	93.0	5.60
A1085.7	–	5.70	0.2244	57.0	93.0	5.70
A1085.8	–	5.80	0.2283	57.0	93.0	5.80
A1085.9	–	5.90	0.2323	57.0	93.0	5.90
A10815/64	15/64	5.95	0.2344	57.0	93.0	5.95
A1086.0	–	6.00	0.2362	57.0	93.0	6.00
A1086.1	–	6.10	0.2402	63.0	101.0	6.10
A1086.2	–	6.20	0.2441	63.0	101.0	6.20
A1086.3	–	6.30	0.2480	63.0	101.0	6.30
A1081/4	1/4	6.35	0.2500	63.0	101.0	6.35
A1086.4	–	6.40	0.2520	63.0	101.0	6.40
A1086.5	–	6.50	0.2559	63.0	101.0	6.50
A1086.6	–	6.60	0.2598	63.0	101.0	6.60
A1086.7	–	6.70	0.2638	63.0	101.0	6.70
A10817/64	17/64	6.75	0.2656	69.0	109.0	6.75
A1086.8	–	6.80	0.2677	69.0	109.0	6.80
A1086.9	–	6.90	0.2717	69.0	109.0	6.90
A1087.0	–	7.00	0.2756	69.0	109.0	7.00
A1087.1	–	7.10	0.2795	69.0	109.0	7.10
A1089/32	9/32	7.14	0.2813	69.0	109.0	7.14
A1087.2	–	7.20	0.2835	69.0	109.0	7.20
A1087.3	–	7.30	0.2874	69.0	109.0	7.30
A1087.4	–	7.40	0.2913	69.0	109.0	7.40
A1087.5	–	7.50	0.2953	69.0	109.0	7.50
A10819/64	19/64	7.54	0.2969	75.0	117.0	7.54
A1087.6	–	7.60	0.2992	75.0	117.0	7.60
A1087.7	–	7.70	0.3031	75.0	117.0	7.70
A1087.8	–	7.80	0.3071	75.0	117.0	7.80
A1087.9	–	7.90	0.3110	75.0	117.0	7.90
A1085/16	5/16	7.94	0.3125	75.0	117.0	7.94
A1088.0	–	8.00	0.3150	75.0	117.0	8.00
A1088.1	–	8.10	0.3189	75.0	117.0	8.10
A1088.2	–	8.20	0.3228	75.0	117.0	8.20
A1088.3	–	8.30	0.3268	75.0	117.0	8.30

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A10821/64	21/64	8.33	0.3281	75.0	117.0	8.33
A1088.4	–	8.40	0.3307	75.0	117.0	8.40
A1088.5	–	8.50	0.3346	75.0	117.0	8.50
A1088.6	–	8.60	0.3386	81.0	125.0	8.60
A1088.7	–	8.70	0.3425	81.0	125.0	8.70
A10811/32	11/32	8.73	0.3438	81.0	125.0	8.73
A1088.8	–	8.80	0.3465	81.0	125.0	8.80
A1088.9	–	8.90	0.3504	81.0	125.0	8.90
A1089.0	–	9.00	0.3543	81.0	125.0	9.00
A1089.1	–	9.10	0.3583	81.0	125.0	9.10
A10823/64	23/64	9.13	0.3594	81.0	125.0	9.13
A1089.2	–	9.20	0.3622	81.0	125.0	9.20
A1089.3	–	9.30	0.3661	81.0	125.0	9.30
A1089.4	–	9.40	0.3701	81.0	125.0	9.40
A1089.5	–	9.50	0.3740	81.0	125.0	9.50
A1083/8	3/8	9.52	0.3750	87.0	133.0	9.52
A1089.6	–	9.60	0.3780	87.0	133.0	9.60
A1089.7	–	9.70	0.3819	87.0	133.0	9.70
A1089.8	–	9.80	0.3858	87.0	133.0	9.80
A1089.9	–	9.90	0.3898	87.0	133.0	9.90
A10825/64	25/64	9.92	0.3906	87.0	133.0	9.92
A10810.0	–	10.00	0.3937	87.0	133.0	10.00
A10810.2	–	10.20	0.4016	87.0	133.0	10.20
A10813/32	13/32	10.32	0.4063	87.0	133.0	10.32
A10810.5	–	10.50	0.4134	87.0	133.0	10.50
A10827/64	27/64	10.72	0.4219	94.0	142.0	10.72
A10810.8	–	10.80	0.4252	94.0	142.0	10.80
A10811.0	–	11.00	0.4331	94.0	142.0	11.00
A1087/16	7/16	11.11	0.4375	94.0	142.0	11.11
A10811.5	–	11.50	0.4528	94.0	142.0	11.50
A10829/64	29/64	11.51	0.4531	94.0	142.0	11.51
A10811.8	–	11.80	0.4646	94.0	142.0	11.80
A10815/32	15/32	11.91	0.4688	101.0	151.0	11.91
A10812.0	–	12.00	0.4724	101.0	151.0	12.00
A10812.2	–	12.20	0.4803	101.0	151.0	12.20
A10831/64	31/64	12.30	0.4844	101.0	151.0	12.30
A10812.5	–	12.50	0.4921	101.0	151.0	12.50
A1081/2	1/2	12.70	0.5000	101.0	151.0	12.70
A10812.8	–	12.80	0.5039	101.0	151.0	12.80
A10812.9	–	12.90	0.5079	101.0	151.0	12.90
A10813.0	–	13.00	0.5118	101.0	151.0	13.00
A10813.5	–	13.50	0.5315	108.0	160.0	13.50
A10814.0	–	14.00	0.5512	108.0	160.0	14.00
A10814.5	–	14.50	0.5709	114.0	169.0	14.50
A10815.0	–	15.00	0.5906	114.0	169.0	15.00
A10815.25	–	15.25	0.6004	120.0	178.0	15.25
A10815.5	–	15.50	0.6102	120.0	178.0	15.50
A10816.0	–	16.00	0.6299	120.0	178.0	16.00



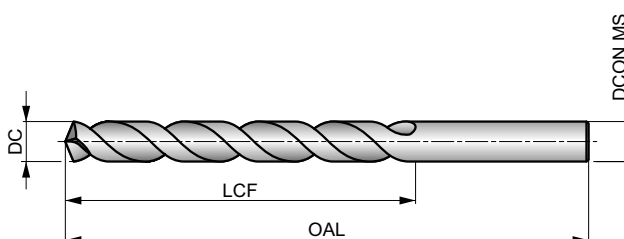


# A147



## Foret court en HSS-E (5% cobalt), finition brillante (conçu pour l'acier inoxydable)

Foret polyvalent et résistant qui répond à toutes les exigences de perçage sur machines dans les aciers inoxydables, mais qui peut également être utilisé pour les opérations à la main. Sa pointe à 130° avec affûtage en croix aide à l'auto-centrage et réduit les forces de coupe. Finition brillante.



HSS-E	DIN 338	4xD
130°	Bright	
VA	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> 133 I	<b>P1.2</b> 137 I	<b>P1.3</b> 138 I	<b>P2.1</b> 128 I	<b>P2.2</b> 125 G	<b>P2.3</b> 122 E	<b>P3.1</b> 119 F	<b>P3.2</b> 115 F	<b>P3.3</b> 113 E	<b>P4.1</b> 111 F	<b>P4.2</b> 110 E	<b>P4.3</b> 108 D	<b>M1.1</b> 21 E	<b>M1.2</b> 17 E
<b>M2.1</b> 18 E	<b>M2.2</b> 15 E	<b>M2.3</b> 13 B	<b>M3.1</b> 10 G	<b>M3.2</b> 9 G	<b>M3.3</b> 8 G	<b>M4.1</b> 10 D	<b>M4.2</b> 9 B	<b>K1.1</b> 30 H	<b>K1.2</b> 22 F	<b>K1.3</b> 17 F	<b>K2.1</b> 25 E	<b>K2.2</b> 20 E	<b>K2.3</b> 16 E
<b>K3.1</b> 22 E	<b>K3.2</b> 17 E	<b>K3.3</b> 13 E	<b>K4.1</b> 20 E	<b>K4.2</b> 15 E	<b>K4.3</b> 11 E	<b>K4.4</b> 10 E	<b>K4.5</b> 8 E	<b>K5.1</b> 23 E	<b>K5.2</b> 17 E	<b>K5.3</b> 13 E	<b>N1.1</b> 33 J	<b>N1.2</b> 25 J	<b>N1.3</b> 17 I
<b>N2.1</b> 42 H	<b>N2.2</b> 37 H	<b>N2.3</b> 27 H	<b>N3.1</b> 59 H	<b>N3.2</b> 35 I	<b>N3.3</b> 18 G	<b>N4.1</b> 30 J	<b>N4.2</b> 28 H	<b>N4.3</b> 14 F	<b>S1.1</b> 25 G	<b>S1.2</b> 16 E	<b>S1.3</b> 17 B	<b>S2.1</b> 19 G	<b>S2.2</b> 18 E
<b>S3.1</b> 7 G	<b>S3.2</b> 6 E	<b>S4.1</b> 5 G	<b>S4.2</b> 5 E										

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A147.3	-	0.30	0.0118	3.0	19.0	0.30
A147.4	-	0.40	0.0157	5.0	20.0	0.40
A147.5	-	0.50	0.0197	6.0	22.0	0.50
A147.6	-	0.60	0.0236	7.0	24.0	0.60
A147.7	-	0.70	0.0276	9.0	28.0	0.70
A147.8	-	0.80	0.0315	10.0	30.0	0.80
A147.9	-	0.90	0.0354	11.0	32.0	0.90
A1471.0	-	1.00	0.0394	12.0	34.0	1.00
A1471.1	-	1.10	0.0433	14.0	36.0	1.10
A1471.2	-	1.20	0.0472	16.0	38.0	1.20
A1471.3	-	1.30	0.0512	16.0	38.0	1.30
A1471.4	-	1.40	0.0551	18.0	40.0	1.40
A1471.5	-	1.50	0.0591	18.0	40.0	1.50
A1471/16	1/16	1.59	0.0625	20.0	43.0	1.59
A1471.6	-	1.60	0.0630	20.0	43.0	1.60
A1471.7	-	1.70	0.0669	20.0	43.0	1.70
A1471.8	-	1.80	0.0709	22.0	46.0	1.80
A1471.9	-	1.90	0.0748	22.0	46.0	1.90
A1472.0	-	2.00	0.0787	24.0	49.0	2.00
A1472.1	-	2.10	0.0827	24.0	49.0	2.10
A1472.2	-	2.20	0.0866	27.0	53.0	2.20
A1472.3	-	2.30	0.0906	27.0	53.0	2.30
A1473/32	3/32	2.38	0.0938	30.0	57.0	2.38
A1472.4	-	2.40	0.0945	30.0	57.0	2.40

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1472.5	-	2.50	0.0984	30.0	57.0	2.50
A1472.6	-	2.60	0.1024	30.0	57.0	2.60
A1472.7	-	2.70	0.1063	33.0	61.0	2.70
A1472.8	-	2.80	0.1102	33.0	61.0	2.80
A1472.9	-	2.90	0.1142	33.0	61.0	2.90
A1473.0	-	3.00	0.1181	33.0	61.0	3.00
A1473.1	-	3.10	0.1220	36.0	65.0	3.10
A1471/8	1/8	3.18	0.1250	36.0	65.0	3.18
A1473.2	-	3.20	0.1260	36.0	65.0	3.20
A1473.3	-	3.30	0.1299	36.0	65.0	3.30
A1473.4	-	3.40	0.1339	39.0	70.0	3.40
A1473.5	-	3.50	0.1378	39.0	70.0	3.50
A1473.6	-	3.60	0.1417	39.0	70.0	3.60
A1473.7	-	3.70	0.1457	39.0	70.0	3.70
A1473.8	-	3.80	0.1496	43.0	75.0	3.80
A1473.9	-	3.90	0.1535	43.0	75.0	3.90
A1475/32	5/32	3.97	0.1563	43.0	75.0	3.97
A1474.0	-	4.00	0.1575	43.0	75.0	4.00
A1474.1	-	4.10	0.1614	43.0	75.0	4.10
A1474.2	-	4.20	0.1654	43.0	75.0	4.20
A1474.3	-	4.30	0.1693	47.0	80.0	4.30
A1474.4	-	4.40	0.1732	47.0	80.0	4.40
A1474.5	-	4.50	0.1772	47.0	80.0	4.50
A1474.6	-	4.60	0.1811	47.0	80.0	4.60



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1474.7	–	4.70	0.1850	47.0	80.0	4.70
A1473/16	3/16	4.76	0.1875	52.0	86.0	4.76
A1474.8	–	4.80	0.1890	52.0	86.0	4.80
A1474.9	–	4.90	0.1929	52.0	86.0	4.90
A1475.0	–	5.00	0.1969	52.0	86.0	5.00
A1475.1	–	5.10	0.2008	52.0	86.0	5.10
A1475.2	–	5.20	0.2047	52.0	86.0	5.20
A1475.3	–	5.30	0.2087	52.0	86.0	5.30
A1475.4	–	5.40	0.2126	57.0	93.0	5.40
A1475.5	–	5.50	0.2165	57.0	93.0	5.50
A1475.6	–	5.60	0.2205	57.0	93.0	5.60
A1475.7	–	5.70	0.2244	57.0	93.0	5.70
A1475.8	–	5.80	0.2283	57.0	93.0	5.80
A1475.9	–	5.90	0.2323	57.0	93.0	5.90
A1476.0	–	6.00	0.2362	57.0	93.0	6.00
A1476.1	–	6.10	0.2402	63.0	101.0	6.10
A1476.2	–	6.20	0.2441	63.0	101.0	6.20
A1476.3	–	6.30	0.2480	63.0	101.0	6.30
A1471/4	1/4	6.35	0.2500	63.0	101.0	6.35
A1476.4	–	6.40	0.2520	63.0	101.0	6.40
A1476.5	–	6.50	0.2559	63.0	101.0	6.50
A1476.6	–	6.60	0.2598	63.0	101.0	6.60
A1476.7	–	6.70	0.2638	63.0	101.0	6.70
A1476.8	–	6.80	0.2677	69.0	109.0	6.80
A1476.9	–	6.90	0.2717	69.0	109.0	6.90
A1477.0	–	7.00	0.2756	69.0	109.0	7.00
A1477.1	–	7.10	0.2795	69.0	109.0	7.10
A1477.2	–	7.20	0.2835	69.0	109.0	7.20
A1477.3	–	7.30	0.2874	69.0	109.0	7.30
A1477.4	–	7.40	0.2913	69.0	109.0	7.40
A1477.5	–	7.50	0.2953	69.0	109.0	7.50
A1477.6	–	7.60	0.2992	75.0	117.0	7.60
A1477.7	–	7.70	0.3031	75.0	117.0	7.70
A1477.8	–	7.80	0.3071	75.0	117.0	7.80

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1477.9	–	7.90	0.3110	75.0	117.0	7.90
A1478.0	–	8.00	0.3150	75.0	117.0	8.00
A1478.1	–	8.10	0.3189	75.0	117.0	8.10
A1478.2	–	8.20	0.3228	75.0	117.0	8.20
A1478.3	–	8.30	0.3268	75.0	117.0	8.30
A1478.4	–	8.40	0.3307	75.0	117.0	8.40
A1478.5	–	8.50	0.3346	75.0	117.0	8.50
A1478.6	–	8.60	0.3386	81.0	125.0	8.60
A1478.7	–	8.70	0.3425	81.0	125.0	8.70
A1478.8	–	8.80	0.3465	81.0	125.0	8.80
A1478.9	–	8.90	0.3504	81.0	125.0	8.90
A1479.0	–	9.00	0.3543	81.0	125.0	9.00
A1479.1	–	9.10	0.3583	81.0	125.0	9.10
A1479.2	–	9.20	0.3622	81.0	125.0	9.20
A1479.3	–	9.30	0.3661	81.0	125.0	9.30
A1479.4	–	9.40	0.3701	81.0	125.0	9.40
A1479.5	–	9.50	0.3740	81.0	125.0	9.50
A1479.6	–	9.60	0.3780	87.0	133.0	9.60
A1479.7	–	9.70	0.3819	87.0	133.0	9.70
A1479.8	–	9.80	0.3858	87.0	133.0	9.80
A1479.9	–	9.90	0.3898	87.0	133.0	9.90
A14710.0	–	10.00	0.3937	87.0	133.0	10.00
A14710.2	–	10.20	0.4016	87.0	133.0	10.20
A14710.5	–	10.50	0.4134	87.0	133.0	10.50
A14711.0	–	11.00	0.4331	94.0	142.0	11.00
A14711.2	–	11.20	0.4409	94.0	142.0	11.20
A14711.5	–	11.50	0.4528	94.0	142.0	11.50
A14712.0	–	12.00	0.4724	101.0	151.0	12.00
A14712.5	–	12.50	0.4921	101.0	151.0	12.50
A14713.0	–	13.00	0.5118	101.0	151.0	13.00
A14713.5	–	13.50	0.5315	108.0	160.0	13.50
A14714.0	–	14.00	0.5512	108.0	160.0	14.00
A14714.5	–	14.50	0.5709	114.0	169.0	14.50
A14715.0	–	15.00	0.5906	114.0	169.0	15.00

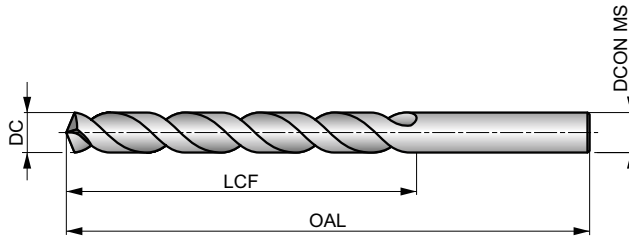


# A777



## Foret court en HSS-E (8% cobalt), finition avec traitement bronze

Foret performant produisant des trous de taille précise avec une finition de qualité dans des matériaux à haute résistance. Sa pointe avec affûtage en croix à 135° l'aide à se centrer automatiquement. La finition avec traitement bronze est une fine couche d'oxyde formée sur la surface de l'outil et indique un foret HSS-E à 8% de cobalt.



HSS-E	DIN 338	4xD
135°	Bronze	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■36 H	<b>P1.2</b> ■40 H	<b>P1.3</b> ■41 H	<b>P2.1</b> ■31 H	<b>P2.2</b> ■27 G	<b>P2.3</b> ■24 E	<b>P3.1</b> ■25 F	<b>P3.2</b> ■20 F	<b>P3.3</b> ■17 E	<b>P4.1</b> ■15 F	<b>P4.2</b> ■13 E	<b>P4.3</b> ■10 D	<b>M1.1</b> ■30 E	<b>M1.2</b> ■26 E
<b>M2.1</b> ■27 E	<b>M2.2</b> ■22 E	<b>M3.1</b> ■13 G	<b>M3.2</b> ■11 G	<b>M3.3</b> ■10 G	<b>M4.1</b> ■15 C	<b>K1.1</b> ■35 H	<b>K1.2</b> ■26 D	<b>K1.3</b> ■19 D	<b>K2.1</b> ■27 E	<b>K2.2</b> ■22 E	<b>K2.3</b> ■18 E	<b>K3.1</b> ■24 E	<b>K3.2</b> ■18 E
<b>K3.3</b> ■15 E	<b>K4.1</b> ■22 E	<b>K4.2</b> ■17 E	<b>K4.3</b> ■12 E	<b>K4.4</b> ■11 E	<b>K4.5</b> ■9 E	<b>K5.1</b> ■25 E	<b>K5.2</b> ■19 E	<b>K5.3</b> ■15 E	<b>N1.1</b> ■33 J	<b>N1.2</b> ■25 J	<b>N1.3</b> ■17 I	<b>N2.1</b> ■46 H	<b>N2.2</b> ■42 H
<b>N2.3</b> ■30 H	<b>N3.1</b> ■68 H	<b>N3.2</b> ■40 F	<b>N3.3</b> ■20 H	<b>S1.1</b> ■28 F	<b>S1.2</b> ■20 D	<b>S1.3</b> ■11 C	<b>S2.1</b> ■9 E	<b>S2.2</b> ■8 B	<b>S3.1</b> ■7 E	<b>S3.2</b> ■6 B	<b>S4.1</b> ■5 E	<b>S4.2</b> ■5 B	

NAS907J. DC <= 1.4mm avec pointe 4 facettes.

Les produits de cette série sont également disponibles en coffret. Voir A295.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)			
A777.3	—	0.30	0.0118	3.0	19.0	0.30
A777.35	—	0.35	0.0138	4.0	19.0	0.35
A777.4	—	0.40	0.0157	5.0	20.0	0.40
A777.45	—	0.45	0.0177	5.0	20.0	0.45
A777.5	—	0.50	0.0197	6.0	22.0	0.50
A777.55	—	0.55	0.0217	7.0	24.0	0.55
A777.6	—	0.60	0.0236	7.0	24.0	0.60
A777.65	—	0.65	0.0256	8.0	26.0	0.65
A777.7	—	0.70	0.0276	9.0	28.0	0.70
A777.8	—	0.80	0.0315	10.0	30.0	0.80
A777.9	—	0.90	0.0354	11.0	32.0	0.90
A777.95	—	0.95	0.0374	11.0	32.0	0.95
A7771.0	—	1.00	0.0394	12.0	34.0	1.00
A7771.1	—	1.10	0.0433	14.0	36.0	1.10
A7771.2	—	1.20	0.0472	16.0	38.0	1.20
A7771.3	—	1.30	0.0512	16.0	38.0	1.30
A7771.4	—	1.40	0.0551	18.0	40.0	1.40
A7771.5	—	1.50	0.0591	18.0	40.0	1.50
A7771/16	1/16	1.59	0.0625	20.0	43.0	1.59
A7771.6	—	1.60	0.0630	20.0	43.0	1.60
A7771.7	—	1.70	0.0669	20.0	43.0	1.70
A7771.8	—	1.80	0.0709	22.0	46.0	1.80
A7771.9	—	1.90	0.0748	22.0	46.0	1.90
A7775/64	5/64	1.98	0.0781	24.0	49.0	1.98

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)			
A7772.0	—	2.00	0.0787	24.0	49.0	2.00
A7772.1	—	2.10	0.0827	24.0	49.0	2.10
A7772.2	—	2.20	0.0866	27.0	53.0	2.20
A7772.3	—	2.30	0.0906	27.0	53.0	2.30
A7773/32	3/32	2.38	0.0938	30.0	57.0	2.38
A7772.4	—	2.40	0.0945	30.0	57.0	2.40
A7772.5	—	2.50	0.0984	30.0	57.0	2.50
A7772.6	—	2.60	0.1024	30.0	57.0	2.60
A7772.7	—	2.70	0.1063	33.0	61.0	2.70
A7777/64	7/64	2.78	0.1094	33.0	61.0	2.78
A7772.8	—	2.80	0.1102	33.0	61.0	2.80
A7772.9	—	2.90	0.1142	33.0	61.0	2.90
A7773.0	—	3.00	0.1181	33.0	61.0	3.00
A7773.1	—	3.10	0.1220	36.0	65.0	3.10
A7771/8	1/8	3.18	0.1250	36.0	65.0	3.18
A7773.2	—	3.20	0.1260	36.0	65.0	3.20
A7773.3	—	3.30	0.1299	36.0	65.0	3.30
A7773.4	—	3.40	0.1339	39.0	70.0	3.40
A7773.5	—	3.50	0.1378	39.0	70.0	3.50
A7779/64	9/64	3.57	0.1406	39.0	70.0	3.57
A7773.6	—	3.60	0.1417	39.0	70.0	3.60
A7773.7	—	3.70	0.1457	39.0	70.0	3.70
A7773.8	—	3.80	0.1496	43.0	75.0	3.80
A7773.9	—	3.90	0.1535	43.0	75.0	3.90



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A7775/32	5/32	3.97	0.1563	43.0	75.0	3.97
A7774.0	–	4.00	0.1575	43.0	75.0	4.00
A7774.1	–	4.10	0.1614	43.0	75.0	4.10
A7774.2	–	4.20	0.1654	43.0	75.0	4.20
A7774.3	–	4.30	0.1693	47.0	80.0	4.30
A77711/64	11/64	4.37	0.1719	47.0	80.0	4.37
A7774.4	–	4.40	0.1732	47.0	80.0	4.40
A7774.5	–	4.50	0.1772	47.0	80.0	4.50
A7774.6	–	4.60	0.1811	47.0	80.0	4.60
A7774.7	–	4.70	0.1850	47.0	80.0	4.70
A7773/16	3/16	4.76	0.1875	52.0	86.0	4.76
A7774.8	–	4.80	0.1890	52.0	86.0	4.80
A7774.9	–	4.90	0.1929	52.0	86.0	4.90
A7775.0	–	5.00	0.1969	52.0	86.0	5.00
A7775.1	–	5.10	0.2008	52.0	86.0	5.10
A77713/64	13/64	5.16	0.2031	52.0	86.0	5.16
A7775.2	–	5.20	0.2047	52.0	86.0	5.20
A7775.3	–	5.30	0.2087	52.0	86.0	5.30
A7775.4	–	5.40	0.2126	57.0	93.0	5.40
A7775.5	–	5.50	0.2165	57.0	93.0	5.50
A7777/32	7/32	5.56	0.2188	57.0	93.0	5.56
A7775.6	–	5.60	0.2205	57.0	93.0	5.60
A7775.7	–	5.70	0.2244	57.0	93.0	5.70
A7775.8	–	5.80	0.2283	57.0	93.0	5.80
A7775.9	–	5.90	0.2323	57.0	93.0	5.90
A77715/64	15/64	5.95	0.2344	57.0	93.0	5.95
A7776.0	–	6.00	0.2362	57.0	93.0	6.00
A7776.1	–	6.10	0.2402	63.0	101.0	6.10
A7776.2	–	6.20	0.2441	63.0	101.0	6.20
A7776.3	–	6.30	0.2480	63.0	101.0	6.30
A7771/4	1/4	6.35	0.2500	63.0	101.0	6.35
A7776.4	–	6.40	0.2520	63.0	101.0	6.40
A7776.5	–	6.50	0.2559	63.0	101.0	6.50
A7776.6	–	6.60	0.2598	63.0	101.0	6.60
A7776.7	–	6.70	0.2638	63.0	101.0	6.70
A77717/64	17/64	6.75	0.2656	69.0	109.0	6.75
A7776.8	–	6.80	0.2677	69.0	109.0	6.80
A7776.9	–	6.90	0.2717	69.0	109.0	6.90
A7777.0	–	7.00	0.2756	69.0	109.0	7.00
A7777.1	–	7.10	0.2795	69.0	109.0	7.10
A7779/32	9/32	7.14	0.2813	69.0	109.0	7.14
A7777.2	–	7.20	0.2835	69.0	109.0	7.20
A7777.3	–	7.30	0.2874	69.0	109.0	7.30
A7777.4	–	7.40	0.2913	69.0	109.0	7.40
A7777.5	–	7.50	0.2953	69.0	109.0	7.50
A77719/64	19/64	7.54	0.2969	75.0	117.0	7.54
A7777.6	–	7.60	0.2992	75.0	117.0	7.60
A7777.7	–	7.70	0.3031	75.0	117.0	7.70
A7777.8	–	7.80	0.3071	75.0	117.0	7.80
A7777.9	–	7.90	0.3110	75.0	117.0	7.90
A7775/16	5/16	7.94	0.3125	75.0	117.0	7.94
A7778.0	–	8.00	0.3150	75.0	117.0	8.00

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A7778.1	–	8.10	0.3189	75.0	117.0	8.10
A7778.2	–	8.20	0.3228	75.0	117.0	8.20
A7778.3	–	8.30	0.3268	75.0	117.0	8.30
A77721/64	21/64	8.33	0.3281	75.0	117.0	8.33
A7778.4	–	8.40	0.3307	75.0	117.0	8.40
A7778.5	–	8.50	0.3346	75.0	117.0	8.50
A7778.6	–	8.60	0.3386	81.0	125.0	8.60
A7778.7	–	8.70	0.3425	81.0	125.0	8.70
A77711/32	11/32	8.73	0.3438	81.0	125.0	8.73
A7778.8	–	8.80	0.3465	81.0	125.0	8.80
A7778.9	–	8.90	0.3504	81.0	125.0	8.90
A7779.0	–	9.00	0.3543	81.0	125.0	9.00
A7779.1	–	9.10	0.3583	81.0	125.0	9.10
A77723/64	23/64	9.13	0.3594	81.0	125.0	9.13
A7779.2	–	9.20	0.3622	81.0	125.0	9.20
A7779.3	–	9.30	0.3661	81.0	125.0	9.30
A7779.4	–	9.40	0.3701	81.0	125.0	9.40
A7779.5	–	9.50	0.3740	81.0	125.0	9.50
A7773/8	3/8	9.52	0.3750	87.0	133.0	9.52
A7779.6	–	9.60	0.3780	87.0	133.0	9.60
A7779.7	–	9.70	0.3819	87.0	133.0	9.70
A7779.8	–	9.80	0.3858	87.0	133.0	9.80
A7779.9	–	9.90	0.3898	87.0	133.0	9.90
A77725/64	25/64	9.92	0.3906	87.0	133.0	9.92
A77710.0	–	10.00	0.3937	87.0	133.0	10.00
A77710.1	–	10.10	0.3976	87.0	133.0	10.10
A77710.2	–	10.20	0.4016	87.0	133.0	10.20
A77713/32	13/32	10.32	0.4063	87.0	133.0	10.32
A77710.5	–	10.50	0.4134	87.0	133.0	10.50
A77727/64	27/64	10.72	0.4219	94.0	142.0	10.72
A77710.8	–	10.80	0.4252	94.0	142.0	10.80
A77711.0	–	11.00	0.4331	94.0	142.0	11.00
A7777/16	7/16	11.11	0.4375	94.0	142.0	11.11
A77711.2	–	11.20	0.4409	94.0	142.0	11.20
A77711.5	–	11.50	0.4528	94.0	142.0	11.50
A77729/64	29/64	11.51	0.4531	94.0	142.0	11.51
A77711.8	–	11.80	0.4646	94.0	142.0	11.80
A77715/32	15/32	11.91	0.4688	101.0	151.0	11.91
A77712.0	–	12.00	0.4724	101.0	151.0	12.00
A77712.2	–	12.20	0.4803	101.0	151.0	12.20
A77731/64	31/64	12.30	0.4844	101.0	151.0	12.30
A77712.5	–	12.50	0.4921	101.0	151.0	12.50
A7771/2	1/2	12.70	0.5000	101.0	151.0	12.70
A77712.8	–	12.80	0.5039	101.0	151.0	12.80
A77713.0	–	13.00	0.5118	101.0	151.0	13.00
A77713.5	–	13.50	0.5315	108.0	160.0	13.50
A77714.0	–	14.00	0.5512	108.0	160.0	14.00
A77714.5	–	14.50	0.5709	114.0	169.0	14.50
A77715.0	–	15.00	0.5906	114.0	169.0	15.00
A77715.5	–	15.50	0.6102	120.0	178.0	15.50
A77716.0	–	16.00	0.6299	120.0	178.0	16.00

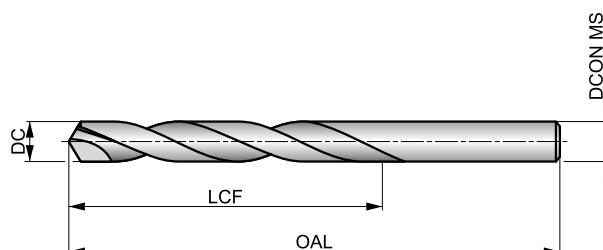


# A160



## Foret court en HSS, finition avec traitement vapeur, avec pointe en carbure brasée

Foret avec un corps en HSS et une pointe en carbure brasée donnant les performances d'un foret en carbure monobloc grâce à son corps résistant et flexible. Il possède une pointe à 118° auto-centrante à 4 facettes, ce qui en fait un choix économique pour le perçage des matériaux en fonte. Il peut être utilisé sur des machines conventionnelles et CNC.



HSS HM	DIN 338	4xD
118°	Bright ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> 73 E	<b>P1.2</b> 82 E	<b>P1.3</b> 85 E	<b>P2.1</b> 63 E	<b>P2.2</b> 55 D	<b>P2.3</b> 49 C	<b>P3.1</b> 59 D	<b>P3.2</b> 47 D	<b>P3.3</b> 40 C	<b>P4.1</b> 35 D	<b>P4.2</b> 30 C	<b>P4.3</b> 24 A	<b>M1.1</b> 55 B	<b>M1.2</b> 46 B
<b>M2.1</b> 49 B	<b>M2.2</b> 40 B	<b>M3.1</b> 41 C	<b>M3.2</b> 35 C	<b>M3.3</b> 32 C	<b>M4.1</b> 35 A	<b>K1.1</b> 50 C	<b>K1.2</b> 37 A	<b>K1.3</b> 28 A	<b>K2.1</b> 43 A	<b>K2.2</b> 35 A	<b>K2.3</b> 28 A	<b>K3.1</b> 38 A	<b>K3.2</b> 29 A
<b>K3.3</b> 24 A	<b>K4.1</b> 35 A	<b>K4.2</b> 27 A	<b>K4.3</b> 20 A	<b>K4.4</b> 17 A	<b>K4.5</b> 14 A	<b>K5.1</b> 40 A	<b>K5.2</b> 30 A	<b>K5.3</b> 23 A	<b>N1.1</b> 50 I	<b>N1.2</b> 38 I	<b>N1.3</b> 25 H	<b>N2.1</b> 62 G	<b>N2.2</b> 55 G
<b>N2.3</b> 40 G	<b>N3.1</b> 119 C	<b>N3.2</b> 70 G	<b>N3.3</b> 35 D	<b>N4.2</b> 60 E	<b>S1.1</b> 35 A	<b>S1.2</b> 35 A	<b>S1.3</b> 25 A	<b>S2.1</b> 33 A	<b>S2.2</b> 28 A	<b>S3.1</b> 25 A	<b>S3.2</b> 20 A	<b>S4.1</b> 20 A	<b>S4.2</b> 16 A

Produit	DC	DC	LCF	OAL	DCON MS
	(mm)	(inch)			
A1604.0	4.00	0.1575	43.0	75.0	4.00
A1604.5	4.50	0.1772	47.0	80.0	4.50
A1605.0	5.00	0.1969	52.0	86.0	5.00
A1605.5	5.50	0.2165	57.0	93.0	5.50
A1606.0	6.00	0.2362	57.0	93.0	6.00
A1606.5	6.50	0.2559	63.0	101.0	6.50
A1606.8	6.80	0.2677	69.0	109.0	6.80
A1607.0	7.00	0.2756	69.0	109.0	7.00
A1607.5	7.50	0.2953	69.0	109.0	7.50
A1608.0	8.00	0.3150	75.0	117.0	8.00
A1608.5	8.50	0.3346	75.0	117.0	8.50
A1609.0	9.00	0.3543	81.0	125.0	9.00
A1609.5	9.50	0.3740	81.0	125.0	9.50
A16010.0	10.00	0.3937	87.0	133.0	10.00
A16010.2	10.20	0.4016	87.0	133.0	10.20
A16010.5	10.50	0.4134	87.0	133.0	10.50
A16011.0	11.00	0.4331	94.0	142.0	11.00
A16011.5	11.50	0.4528	94.0	142.0	11.50
A16012.0	12.00	0.4724	101.0	151.0	12.00
A16013.0	13.00	0.5118	101.0	151.0	13.00
A16014.0	14.00	0.5512	108.0	160.0	14.00
A16015.0	15.00	0.5906	114.0	169.0	15.00
A16016.0	16.00	0.6299	120.0	178.0	16.00



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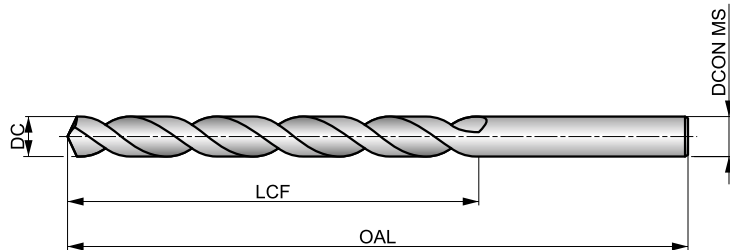


## Foret court ADX en HSS, revêtement TiN

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H9). Sa pointe amincie à 130° facilite l'auto-centrage. Ce foret doit être utilisé sur des machines CNC uniquement. Le revêtement TiN améliore les performances et prolonge la durée de vie de l'outil. Convient pour le perçage de nombreux matériaux.



## ADX



HSS	DIN 338	4xD
130°	TiN	
λ 32-40°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 53 M	<b>P1.2</b> ■ 59 M	<b>P1.3</b> ■ 61 M	<b>P2.1</b> ■ 45 M	<b>P2.2</b> ■ 40 K	<b>P2.3</b> ■ 35 F	<b>P3.1</b> ■ 31 H	<b>P3.2</b> ■ 25 H	<b>P3.3</b> ■ 21 F	<b>P4.1</b> ■ 19 H	<b>P4.2</b> ■ 16 F	<b>P4.3</b> ■ 13 D	<b>M1.1</b> ■ 38 G	<b>M1.2</b> ■ 32 G
<b>M2.1</b> ■ 34 G	<b>M2.2</b> ■ 28 G	<b>M3.1</b> ■ 16 I	<b>M3.2</b> ■ 14 I	<b>M3.3</b> ■ 13 I	<b>M4.1</b> ■ 19 G	<b>K1.1</b> ■ 42 K	<b>K1.2</b> ■ 31 J	<b>K1.3</b> ■ 23 J	<b>K2.1</b> ■ 34 J	<b>K2.2</b> ■ 28 J	<b>K2.3</b> ■ 22 F	<b>K3.1</b> ■ 30 J	<b>K3.2</b> ■ 23 J
<b>K3.3</b> ■ 19 F	<b>K4.1</b> ■ 28 J	<b>K4.2</b> ■ 21 J	<b>K4.3</b> ■ 16 F	<b>K4.4</b> ■ 13 F	<b>K4.5</b> ■ 11 F	<b>K5.1</b> ■ 32 J	<b>K5.2</b> ■ 24 J	<b>K5.3</b> ■ 19 F	<b>N1.1</b> ■ 50 G	<b>N1.2</b> ■ 38 G	<b>N1.3</b> ■ 25 M	<b>N2.1</b> ■ 48 I	<b>N2.2</b> ■ 43 I
<b>N2.3</b> ■ 31 I	<b>N3.1</b> ■ 85 I	<b>N3.2</b> ■ 50 I	<b>N3.3</b> ■ 25 D	<b>N4.1</b> ■ 65 G	<b>N4.2</b> ■ 50 G	<b>N4.3</b> ■ 35 F	<b>S1.1</b> ■ 32 G	<b>S1.2</b> ■ 20 H	<b>S1.3</b> ■ 4 B	<b>S2.1</b> ■ 12 E	<b>S2.2</b> ■ 8 E	<b>S3.1</b> ■ 9 E	<b>S3.2</b> ■ 6 E
<b>S4.1</b> ■ 7 E	<b>S4.2</b> ■ 5 E												

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A5103.0	–	3.00	0.1181	33.0	61.0	3.00
A5103.1	–	3.10	0.1220	36.0	65.0	3.10
A5101/8	1/8	3.18	0.1250	36.0	65.0	3.18
A5103.2	–	3.20	0.1260	36.0	65.0	3.20
A5103.3	–	3.30	0.1299	36.0	65.0	3.30
A5103.4	–	3.40	0.1339	39.0	70.0	3.40
A5103.5	–	3.50	0.1378	39.0	70.0	3.50
A5109/64	9/64	3.57	0.1406	39.0	70.0	3.57
A5103.6	–	3.60	0.1417	39.0	70.0	3.60
A5103.7	–	3.70	0.1457	39.0	70.0	3.70
A5103.8	–	3.80	0.1496	43.0	75.0	3.80
A5103.9	–	3.90	0.1535	43.0	75.0	3.90
A5105/32	5/32	3.97	0.1563	43.0	75.0	3.97
A5104.0	–	4.00	0.1575	43.0	75.0	4.00
A5104.1	–	4.10	0.1614	43.0	75.0	4.10
A5104.2	–	4.20	0.1654	43.0	75.0	4.20
A5104.3	–	4.30	0.1693	47.0	80.0	4.30
A51011/64	11/64	4.37	0.1719	47.0	80.0	4.37
A5104.4	–	4.40	0.1732	47.0	80.0	4.40
A5104.5	–	4.50	0.1772	47.0	80.0	4.50
A5104.6	–	4.60	0.1811	47.0	80.0	4.60
A5104.7	–	4.70	0.1850	47.0	80.0	4.70
A5103/16	3/16	4.76	0.1875	52.0	86.0	4.76
A5104.8	–	4.80	0.1890	52.0	86.0	4.80

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A5104.9	–	4.90	0.1929	52.0	86.0	4.90
A5105.0	–	5.00	0.1969	52.0	86.0	5.00
A5105.1	–	5.10	0.2008	52.0	86.0	5.10
A51013/64	13/64	5.16	0.2031	52.0	86.0	5.16
A5105.2	–	5.20	0.2047	52.0	86.0	5.20
A5105.3	–	5.30	0.2087	52.0	86.0	5.30
A5105.4	–	5.40	0.2126	57.0	93.0	5.40
A5105.5	–	5.50	0.2165	57.0	93.0	5.50
A5107/32	7/32	5.56	0.2188	57.0	93.0	5.56
A5105.6	–	5.60	0.2205	57.0	93.0	5.60
A5105.7	–	5.70	0.2244	57.0	93.0	5.70
A5105.8	–	5.80	0.2283	57.0	93.0	5.80
A5105.9	–	5.90	0.2323	57.0	93.0	5.90
A51015/64	15/64	5.95	0.2344	57.0	93.0	5.95
A5106.0	–	6.00	0.2362	57.0	93.0	6.00
A5106.1	–	6.10	0.2402	63.0	101.0	6.10
A5106.2	–	6.20	0.2441	63.0	101.0	6.20
A5106.3	–	6.30	0.2480	63.0	101.0	6.30
A5101/4	1/4	6.35	0.2500	63.0	101.0	6.35
A5106.4	–	6.40	0.2520	63.0	101.0	6.40
A5106.5	–	6.50	0.2559	63.0	101.0	6.50
A5106.6	–	6.60	0.2598	63.0	101.0	6.60
A5106.7	–	6.70	0.2638	63.0	101.0	6.70
A51017/64	17/64	6.75	0.2656	69.0	109.0	6.75



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A5106.8	—	6.80	0.2677	69.0	109.0	6.80
A5106.9	—	6.90	0.2717	69.0	109.0	6.90
A5107.0	—	7.00	0.2756	69.0	109.0	7.00
A5107.1	—	7.10	0.2795	69.0	109.0	7.10
A5109/32	9/32	7.14	0.2813	69.0	109.0	7.14
A5107.2	—	7.20	0.2835	69.0	109.0	7.20
A5107.3	—	7.30	0.2874	69.0	109.0	7.30
A5107.4	—	7.40	0.2913	69.0	109.0	7.40
A5107.5	—	7.50	0.2953	69.0	109.0	7.50
A51019/64	19/64	7.54	0.2969	75.0	117.0	7.54
A5107.6	—	7.60	0.2992	75.0	117.0	7.60
A5107.7	—	7.70	0.3031	75.0	117.0	7.70
A5107.8	—	7.80	0.3071	75.0	117.0	7.80
A5107.9	—	7.90	0.3110	75.0	117.0	7.90
A5105/16	5/16	7.94	0.3125	75.0	117.0	7.94
A5108.0	—	8.00	0.3150	75.0	117.0	8.00
A5108.1	—	8.10	0.3189	75.0	117.0	8.10
A5108.2	—	8.20	0.3228	75.0	117.0	8.20
A5108.3	—	8.30	0.3268	75.0	117.0	8.30
A51021/64	21/64	8.33	0.3281	75.0	117.0	8.33
A5108.4	—	8.40	0.3307	75.0	117.0	8.40
A5108.5	—	8.50	0.3346	75.0	117.0	8.50
A5108.6	—	8.60	0.3386	81.0	125.0	8.60
A5108.7	—	8.70	0.3425	81.0	125.0	8.70
A51011/32	11/32	8.73	0.3438	81.0	125.0	8.73
A5108.8	—	8.80	0.3465	81.0	125.0	8.80
A5108.9	—	8.90	0.3504	81.0	125.0	8.90
A5109.0	—	9.00	0.3543	81.0	125.0	9.00
A5109.1	—	9.10	0.3583	81.0	125.0	9.10
A51023/64	23/64	9.13	0.3594	81.0	125.0	9.13
A5109.2	—	9.20	0.3622	81.0	125.0	9.20
A5109.3	—	9.30	0.3661	81.0	125.0	9.30
A5109.4	—	9.40	0.3701	81.0	125.0	9.40
A5109.5	—	9.50	0.3740	81.0	125.0	9.50
A5103/8	3/8	9.52	0.3750	87.0	133.0	9.52
A5109.6	—	9.60	0.3780	87.0	133.0	9.60
A5109.7	—	9.70	0.3819	87.0	133.0	9.70
A5109.8	—	9.80	0.3858	87.0	133.0	9.80
A5109.9	—	9.90	0.3898	87.0	133.0	9.90
A51025/64	25/64	9.92	0.3906	87.0	133.0	9.92

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A51010.0	—	10.00	0.3937	87.0	133.0	10.00
A51010.1	—	10.10	0.3976	87.0	133.0	10.10
A51010.2	—	10.20	0.4016	87.0	133.0	10.20
A51010.3	—	10.30	0.4055	87.0	133.0	10.30
A51013/32	13/32	10.32	0.4063	87.0	133.0	10.32
A51010.4	—	10.40	0.4094	87.0	133.0	10.40
A51010.5	—	10.50	0.4134	87.0	133.0	10.50
A51010.6	—	10.60	0.4173	87.0	133.0	10.60
A51010.7	—	10.70	0.4213	94.0	142.0	10.70
A51027/64	27/64	10.72	0.4219	94.0	142.0	10.72
A51010.8	—	10.80	0.4252	94.0	142.0	10.80
A51010.9	—	10.90	0.4291	94.0	142.0	10.90
A51011.0	—	11.00	0.4331	94.0	142.0	11.00
A51011.1	—	11.10	0.4370	94.0	142.0	11.10
A5107/16	7/16	11.11	0.4375	94.0	142.0	11.11
A51011.2	—	11.20	0.4409	94.0	142.0	11.20
A51011.3	—	11.30	0.4449	94.0	142.0	11.30
A51011.4	—	11.40	0.4488	94.0	142.0	11.40
A51011.5	—	11.50	0.4528	94.0	142.0	11.50
A51029/64	29/64	11.51	0.4531	94.0	142.0	11.51
A51011.6	—	11.60	0.4567	94.0	142.0	11.60
A51011.7	—	11.70	0.4606	94.0	142.0	11.70
A51011.8	—	11.80	0.4646	94.0	142.0	11.80
A51011.9	—	11.90	0.4685	101.0	151.0	11.90
A51015/32	15/32	11.91	0.4688	101.0	151.0	11.91
A51012.0	—	12.00	0.4724	101.0	151.0	12.00
A51012.1	—	12.10	0.4764	101.0	151.0	12.10
A51012.2	—	12.20	0.4803	101.0	151.0	12.20
A51012.3	—	12.30	0.4843	101.0	151.0	12.30
A51031/64	31/64	12.30	0.4844	101.0	151.0	12.30
A51012.4	—	12.40	0.4882	101.0	151.0	12.40
A51012.5	—	12.50	0.4921	101.0	151.0	12.50
A51012.6	—	12.60	0.4961	101.0	151.0	12.60
A51012.7	—	12.70	0.5000	101.0	151.0	12.70
A5101/2	1/2	12.70	0.5000	101.0	151.0	12.70
A51012.8	—	12.80	0.5039	101.0	151.0	12.80
A51012.9	—	12.90	0.5079	101.0	151.0	12.90
A51013.0	—	13.00	0.5118	101.0	151.0	13.00
A51014.0	—	14.00	0.5512	108.0	160.0	14.00



# A553

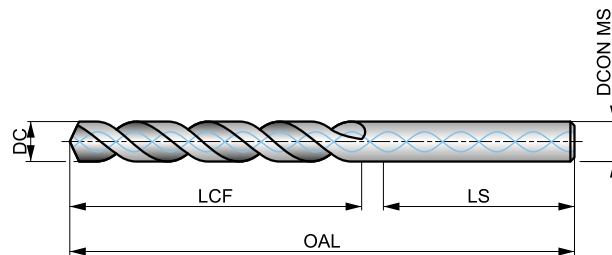


## Foret court ADX en HSS-E (5% Cobalt), revêtement TiAlN avec arrosage centralisé

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H9). Sa pointe amincie à 130° et le revêtement TiAlN Top améliorent les performances et prolongent la durée de vie de l'outil. Ce foret ne doit être utilisé que sur des machines CNC. Convient pour le perçage de nombreux matériaux.



### ADX



HSS-E	DORMER	5xD
130°	TiAlN Top	DIN 6535HA
$\lambda > 35^\circ$	R	
DC h8		

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 80 L	<b>P1.2</b> ■ 89 L	<b>P1.3</b> ■ 92 L	<b>P2.1</b> ■ 68 L	<b>P2.2</b> ■ 60 L	<b>P2.3</b> ■ 53 F	<b>P3.1</b> ■ 41 H	<b>P3.2</b> ■ 33 H	<b>P3.3</b> ■ 28 F	<b>P4.1</b> ■ 25 H	<b>P4.2</b> ■ 21 F	<b>P4.3</b> ■ 17 D	<b>M1.1</b> ■ 55 G	<b>M1.2</b> ■ 46 G
<b>M2.1</b> ■ 49 G	<b>M2.2</b> ■ 40 G	<b>M3.1</b> ■ 22 I	<b>M3.2</b> ■ 19 I	<b>M3.3</b> ■ 17 I	<b>M4.1</b> ■ 27 G	<b>K1.1</b> ■ 70 K	<b>K1.2</b> ■ 52 J	<b>K1.3</b> ■ 39 J	<b>K2.1</b> ■ 55 J	<b>K2.2</b> ■ 45 J	<b>K2.3</b> ■ 36 F	<b>K3.1</b> ■ 49 J	<b>K3.2</b> ■ 37 J
<b>K3.3</b> ■ 30 F	<b>K4.1</b> ■ 45 J	<b>K4.2</b> ■ 34 J	<b>K4.3</b> ■ 25 F	<b>K4.4</b> ■ 22 F	<b>K4.5</b> ■ 18 F	<b>K5.1</b> ■ 51 J	<b>K5.2</b> ■ 39 J	<b>K5.3</b> ■ 30 F	<b>N1.1</b> ■ 70 H	<b>N1.2</b> ■ 53 H	<b>N1.3</b> ■ 35 M	<b>N2.1</b> ■ 85 I	<b>N2.2</b> ■ 76 I
<b>N2.3</b> ■ 55 I	<b>N3.1</b> ■ 144 I	<b>N3.2</b> ■ 85 I	<b>N3.3</b> ■ 43 G	<b>N4.1</b> ■ 90 G	<b>S1.1</b> ■ 45 G	<b>S1.2</b> ■ 30 E	<b>S1.3</b> ■ 8 C	<b>S2.1</b> ■ 20 E	<b>S2.2</b> ■ 14 G	<b>S3.1</b> ■ 15 E	<b>S3.2</b> ■ 10 G	<b>S4.1</b> ■ 12 E	<b>S4.2</b> ■ 8 G

DCON MS tolérance h6.

Produit	DC		LCF	OAL	LS	DCON MS	Produit	DC		LCF	OAL	LS	DCON MS
	(mm)	(inch)						(mm)	(inch)				
A5535.0	5.00	0.1969	36.0	79.0	36.0	6.00	A55311.3	11.30	0.4449	94.0	150.0	45.0	12.00
A5535.2	5.20	0.2047	38.0	79.0	36.0	6.00	A55311.5	11.50	0.4528	94.0	150.0	45.0	12.00
A5535.5	5.50	0.2165	40.0	79.0	36.0	6.00	A55312.0	12.00	0.4724	94.0	150.0	45.0	12.00
A5536.0	6.00	0.2362	43.0	79.0	36.0	6.00	A55312.5	12.50	0.4921	101.0	160.0	45.0	14.00
A5536.3	6.30	0.2480	46.0	87.0	36.0	8.00	A55313.0	13.00	0.5118	101.0	160.0	45.0	14.00
A5536.5	6.50	0.2559	47.0	87.0	36.0	8.00	A55313.5	13.50	0.5315	101.0	160.0	45.0	14.00
A5536.8	6.80	0.2677	48.0	87.0	36.0	8.00	A55314.0	14.00	0.5512	101.0	160.0	45.0	14.00
A5536.9	6.90	0.2717	48.0	87.0	36.0	8.00	A55314.25	14.25	0.5610	108.0	170.0	48.0	16.00
A5537.0	7.00	0.2756	48.0	87.0	36.0	8.00	A55314.5	14.50	0.5709	108.0	170.0	48.0	16.00
A5537.4	7.40	0.2913	54.0	94.0	36.0	8.00	A55315.0	15.00	0.5906	108.0	170.0	48.0	16.00
A5537.5	7.50	0.2953	54.0	94.0	36.0	8.00	A55315.25	15.25	0.6004	108.0	170.0	48.0	16.00
A5538.0	8.00	0.3150	58.0	94.0	36.0	8.00	A55315.5	15.50	0.6102	108.0	170.0	48.0	16.00
A5538.5	8.50	0.3346	75.0	130.0	40.0	10.00	A55316.0	16.00	0.6299	108.0	170.0	48.0	16.00
A5538.7	8.70	0.3425	75.0	130.0	40.0	10.00	A55316.5	16.50	0.6496	125.0	190.0	48.0	18.00
A5539.0	9.00	0.3543	75.0	130.0	40.0	10.00	A55317.0	17.00	0.6693	125.0	190.0	48.0	18.00
A5539.5	9.50	0.3740	75.0	130.0	40.0	10.00	A55317.5	17.50	0.6890	130.0	190.0	48.0	18.00
A55310.0	10.00	0.3937	75.0	130.0	40.0	10.00	A55317.75	17.75	0.6988	130.0	190.0	48.0	18.00
A55310.2	10.20	0.4016	87.0	150.0	45.0	12.00	A55318.0	18.00	0.7087	130.0	190.0	48.0	18.00
A55310.3	10.30	0.4055	87.0	150.0	45.0	12.00	A55319.0	19.00	0.7480	135.0	200.0	50.0	20.00
A55310.5	10.50	0.4134	87.0	150.0	45.0	12.00	A55319.25	19.25	0.7579	140.0	200.0	50.0	20.00
A55311.0	11.00	0.4331	94.0	150.0	45.0	12.00	A55320.0	20.00	0.7874	140.0	200.0	50.0	20.00





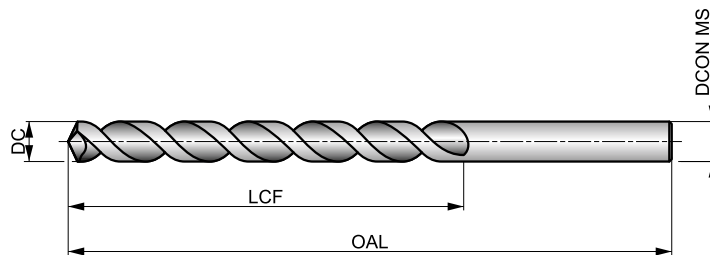
# A900



## Foret court PFX en HSS-E (5% cobalt), finition brillante

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Sa pointe auto-centrante à 130° et la conception spéciale de sa goujure parabolique permettent de percer des trous profonds en une seule passe. Convient à de nombreux matériaux.

## PFX



HSS-E	DIN ANSI	6xD
130°	Bright	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 34 H	<b>P1.2</b> ■ 39 H	<b>P1.3</b> ■ 40 H	<b>P2.1</b> ■ 30 H	<b>P2.2</b> ■ 26 H	<b>P2.3</b> ■ 23 E	<b>P3.1</b> ■ 31 H	<b>P3.2</b> ■ 25 H	<b>P3.3</b> ■ 21 E	<b>P4.1</b> ■ 19 H	<b>P4.2</b> ■ 16 E	<b>P4.3</b> ■ 13 E	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 8 E	<b>M3.2</b> ■ 7 E	<b>M3.3</b> ■ 6 E	<b>M4.1</b> ■ 9 C	<b>K1.1</b> ■ 24 J	<b>K1.2</b> ■ 18 J	<b>K1.3</b> ■ 13 J	<b>K2.1</b> ■ 23 J	<b>K2.2</b> ■ 19 J	<b>K2.3</b> ■ 15 I	<b>K3.1</b> ■ 21 J	<b>K3.2</b> ■ 16 J
<b>K3.3</b> ■ 13 I	<b>K4.1</b> ■ 19 J	<b>K4.2</b> ■ 14 J	<b>K4.3</b> ■ 11 I	<b>K4.4</b> ■ 9 I	<b>K4.5</b> ■ 8 I	<b>K5.1</b> ■ 22 J	<b>K5.2</b> ■ 16 J	<b>K5.3</b> ■ 13 I	<b>N1.1</b> ■ 60 J	<b>N1.2</b> ■ 45 J	<b>N1.3</b> ■ 30 N	<b>N2.1</b> ■ 62 N	<b>N2.2</b> ■ 55 N
<b>N2.3</b> ■ 40 N	<b>N3.1</b> ■ 90 H	<b>N3.2</b> ■ 53 I	<b>N3.3</b> ■ 27 G	<b>N4.1</b> ■ 55 I	<b>N4.2</b> ■ 40 G	<b>S1.1</b> ■ 22 E	<b>S1.2</b> ■ 15 E	<b>S1.3</b> ■ 6 C	<b>S2.1</b> ■ 9 G	<b>S2.2</b> ■ 8 C	<b>S3.1</b> ■ 7 G	<b>S3.2</b> ■ 6 C	<b>S4.1</b> ■ 5 G
<b>S4.2</b> ■ 5 C													

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9001.0	-	1.00	0.0394	12.0	34.0	1.00
A9001.1	-	1.10	0.0433	14.0	36.0	1.10
A9003/64	3/64	1.19	0.0469	19.0	44.0	1.19
A9001.2	-	1.20	0.0472	16.0	38.0	1.20
A9001.25	-	1.25	0.0492	16.0	36.0	1.25
A9001.3	-	1.30	0.0512	16.0	38.0	1.30
A9001.4	-	1.40	0.0551	18.0	40.0	1.40
A9001.5	-	1.50	0.0591	18.0	40.0	1.50
A9001.55	-	1.55	0.0610	20.0	43.0	1.55
A9001/16	1/16	1.59	0.0625	22.0	48.0	1.59
A9001.6	-	1.60	0.0630	20.0	43.0	1.60
A9001.7	-	1.70	0.0669	20.0	43.0	1.70
A9001.75	-	1.75	0.0689	22.0	46.0	1.75
A9001.8	-	1.80	0.0709	22.0	46.0	1.80
A9001.9	-	1.90	0.0748	22.0	46.0	1.90
A9005/64	5/64	1.98	0.0781	25.0	51.0	1.98
A9002.0	-	2.00	0.0787	24.0	49.0	2.00
A9002.1	-	2.10	0.0827	24.0	49.0	2.10
A9002.15	-	2.15	0.0846	27.0	53.0	2.15
A9002.2	-	2.20	0.0866	27.0	53.0	2.20
A9002.3	-	2.30	0.0906	27.0	53.0	2.30
A9003/32	3/32	2.38	0.0937	32.0	57.0	2.38
A9002.4	-	2.40	0.0945	30.0	57.0	2.40
A9002.5	-	2.50	0.0984	30.0	57.0	2.50

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9002.6	-	2.60	0.1024	30.0	57.0	2.60
A9002.7	-	2.70	0.1063	33.0	61.0	2.70
A9007/64	7/64	2.78	0.1094	38.0	67.0	2.78
A9002.8	-	2.80	0.1102	33.0	61.0	2.80
A9002.9	-	2.90	0.1142	33.0	61.0	2.90
A9003.0	-	3.00	0.1181	33.0	61.0	3.00
A9003.1	-	3.10	0.1220	36.0	65.0	3.10
A9001/8	1/8	3.18	0.1250	41.0	70.0	3.18
A9003.2	-	3.20	0.1260	36.0	65.0	3.20
A9003.3	-	3.30	0.1299	36.0	65.0	3.30
A9003.4	-	3.40	0.1339	39.0	70.0	3.40
A9003.5	-	3.50	0.1378	39.0	70.0	3.50
A9009/64	9/64	3.57	0.1406	44.0	73.0	3.57
A9003.6	-	3.60	0.1417	39.0	70.0	3.60
A9003.7	-	3.70	0.1457	39.0	70.0	3.70
A9003.8	-	3.80	0.1496	43.0	75.0	3.80
A9003.9	-	3.90	0.1535	43.0	75.0	3.90
A9005/32	5/32	3.97	0.1563	51.0	79.0	3.97
A9004.0	-	4.00	0.1575	43.0	75.0	4.00
A9004.1	-	4.10	0.1614	43.0	75.0	4.10
A9004.2	-	4.20	0.1654	43.0	75.0	4.20
A9004.3	-	4.30	0.1693	47.0	80.0	4.30
A90011/64	11/64	4.37	0.1719	54.0	83.0	4.37
A9004.4	-	4.40	0.1732	47.0	80.0	4.40



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9004.5	–	4.50	0.1772	47.0	80.0	4.50
A9004.6	–	4.60	0.1811	47.0	80.0	4.60
A9004.7	–	4.70	0.1850	47.0	80.0	4.70
A9003/16	3/16	4.76	0.1875	59.0	89.0	4.76
A9004.8	–	4.80	0.1890	52.0	86.0	4.80
A9004.9	–	4.90	0.1929	52.0	86.0	4.90
A9005.0	–	5.00	0.1969	52.0	86.0	5.00
A9005.1	–	5.10	0.2008	52.0	86.0	5.10
A90013/64	13/64	5.16	0.2031	62.0	92.0	5.16
A9005.2	–	5.20	0.2047	52.0	86.0	5.20
A9005.3	–	5.30	0.2087	52.0	86.0	5.30
A9005.4	–	5.40	0.2126	57.0	93.0	5.40
A9005.5	–	5.50	0.2165	57.0	93.0	5.50
A9007/32	7/32	5.56	0.2188	64.0	95.0	5.56
A9005.6	–	5.60	0.2205	57.0	93.0	5.60
A9005.7	–	5.70	0.2244	57.0	93.0	5.70
A9005.8	–	5.80	0.2283	57.0	93.0	5.80
A9005.9	–	5.90	0.2323	57.0	93.0	5.90
A90015/64	15/64	5.95	0.2344	67.0	98.0	5.95
A9006.0	–	6.00	0.2362	57.0	93.0	6.00
A9006.1	–	6.10	0.2402	63.0	101.0	6.10
A9006.2	–	6.20	0.2441	63.0	101.0	6.20
A9006.3	–	6.30	0.2480	63.0	101.0	6.30
A9001/4	1/4	6.35	0.2500	70.0	102.0	6.35
A9006.4	–	6.40	0.2520	63.0	101.0	6.40
A9006.5	–	6.50	0.2559	63.0	101.0	6.50
A9006.6	–	6.60	0.2598	63.0	101.0	6.60
A9006.7	–	6.70	0.2638	63.0	101.0	6.70
A90017/64	17/64	6.75	0.2656	73.0	105.0	6.75
A9006.8	–	6.80	0.2677	69.0	109.0	6.80
A9006.9	–	6.90	0.2717	69.0	109.0	6.90
A9007.0	–	7.00	0.2756	69.0	109.0	7.00
A9007.1	–	7.10	0.2795	69.0	109.0	7.10
A9009/32	9/32	7.14	0.2813	75.0	108.0	7.14
A9007.2	–	7.20	0.2835	69.0	109.0	7.20
A9007.3	–	7.30	0.2874	69.0	109.0	7.30
A9007.4	–	7.40	0.2913	69.0	109.0	7.40
A9007.5	–	7.50	0.2953	69.0	109.0	7.50
A90019/64	19/64	7.54	0.2969	78.0	111.0	7.54
A9007.6	–	7.60	0.2992	75.0	117.0	7.60
A9007.7	–	7.70	0.3031	75.0	117.0	7.70
A9007.8	–	7.80	0.3071	75.0	117.0	7.80
A9007.9	–	7.90	0.3110	75.0	117.0	7.90
A9005/16	5/16	7.94	0.3125	81.0	114.0	7.94
A9008.0	–	8.00	0.3150	75.0	117.0	8.00
A9008.1	–	8.10	0.3189	75.0	117.0	8.10
A9008.2	–	8.20	0.3228	75.0	117.0	8.20
A9008.3	–	8.30	0.3268	75.0	117.0	8.30
A90021/64	21/64	8.33	0.3281	84.0	117.0	8.33
A9008.4	–	8.40	0.3307	75.0	117.0	8.40
A9008.5	–	8.50	0.3346	75.0	117.0	8.50
A9008.6	–	8.60	0.3386	81.0	125.0	8.60
A9008.7	–	8.70	0.3425	81.0	125.0	8.70
A90011/32	11/32	8.73	0.3438	87.0	121.0	8.73
A9008.8	–	8.80	0.3465	81.0	125.0	8.80
A9008.9	–	8.90	0.3504	81.0	125.0	8.90
A9009.0	–	9.00	0.3543	81.0	125.0	9.00
A9009.1	–	9.10	0.3583	81.0	125.0	9.10
A90023/64	23/64	9.13	0.3594	89.0	124.0	9.13
A9009.2	–	9.20	0.3622	81.0	125.0	9.20

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9009.3	–	9.30	0.3661	81.0	125.0	9.30
A9009.4	–	9.40	0.3701	81.0	125.0	9.40
A9009.5	–	9.50	0.3740	81.0	125.0	9.50
A9003/8	3/8	9.52	0.3750	92.0	127.0	9.52
A9009.6	–	9.60	0.3780	87.0	133.0	9.60
A9009.7	–	9.70	0.3819	87.0	133.0	9.70
A9009.8	–	9.80	0.3858	87.0	133.0	9.80
A9009.9	–	9.90	0.3898	87.0	133.0	9.90
A90025/64	25/64	9.92	0.3906	95.0	130.0	9.92
A90010.0	–	10.00	0.3937	87.0	133.0	10.00
A90010.2	–	10.20	0.4016	87.0	133.0	10.20
A90010.3	–	10.30	0.4055	87.0	133.0	10.30
A90013/32	13/32	10.32	0.4063	98.0	133.0	10.32
A90010.4	–	10.40	0.4094	87.0	133.0	10.40
A90010.5	–	10.50	0.4134	87.0	133.0	10.50
A90027/64	27/64	10.72	0.4219	100.0	137.0	10.72
A90010.8	–	10.80	0.4252	94.0	142.0	10.80
A90011.0	–	11.00	0.4331	94.0	142.0	11.00
A9007/16	7/16	11.11	0.4375	103.0	140.0	11.11
A90011.5	–	11.50	0.4528	94.0	142.0	11.50
A90029/64	29/64	11.51	0.4531	106.0	143.0	11.51
A90011.8	–	11.80	0.4646	94.0	142.0	11.80
A90015/32	15/32	11.91	0.4688	110.0	146.0	11.91
A90012.0	–	12.00	0.4724	101.0	151.0	12.00
A90031/64	31/64	12.30	0.4844	111.0	149.0	12.30
A90012.5	–	12.50	0.4921	101.0	151.0	12.50
A9001/2	1/2	12.70	0.5000	101.0	151.0	12.70
A90013.0	–	13.00	0.5118	101.0	151.0	13.00
A90033/64	33/64	13.10	0.5156	122.0	168.0	13.10
A90013.5	–	13.50	0.5315	108.0	160.0	13.50
A90035/64	35/64	13.89	0.5469	122.0	168.0	13.89
A90014.0	–	14.00	0.5512	108.0	160.0	14.00
A9009/16	9/16	14.29	0.5625	122.0	168.0	14.29
A90014.5	–	14.50	0.5709	114.0	169.0	14.50
A90037/64	37/64	14.68	0.5781	122.0	168.0	14.68
A90015.0	–	15.00	0.5906	114.0	169.0	15.00
A90019/32	19/32	15.08	0.5938	132.0	181.0	15.08
A90039/64	39/64	15.48	0.6094	132.0	181.0	15.48
A90015.5	–	15.50	0.6102	120.0	178.0	15.50
A9005/8	5/8	15.88	0.6250	132.0	181.0	15.88
A90016.0	–	16.00	0.6299	120.0	178.0	16.00
A90041/64	41/64	16.27	0.6406	132.0	181.0	16.27
A90016.5	–	16.50	0.6496	125.0	184.0	16.50
A90021/32	21/32	16.67	0.6563	132.0	181.0	16.67
A90017.0	–	17.00	0.6693	125.0	184.0	17.00
A90043/64	43/64	17.07	0.6719	143.0	194.0	17.07
A90011/16	11/16	17.46	0.6875	143.0	194.0	17.46
A90017.5	–	17.50	0.6890	130.0	191.0	17.50
A90045/64	45/64	17.86	0.7031	130.0	191.0	17.86
A90018.0	–	18.00	0.7087	130.0	191.0	18.00
A90023/32	23/32	18.26	0.7188	130.0	191.0	18.26
A90018.5	–	18.50	0.7283	135.0	198.0	18.50
A90047/64	47/64	18.65	0.7344	135.0	198.0	18.65
A90019.0	–	19.00	0.7480	135.0	198.0	19.00
A9003/4	3/4	19.05	0.7500	135.0	198.0	19.05
A90049/64	49/64	19.45	0.7656	135.0	198.0	19.45
A90019.5	–	19.50	0.7677	140.0	205.0	19.50
A90025/32	25/32	19.84	0.7813	140.0	205.0	19.84
A90020.0	–	20.00	0.7874	140.0	205.0	20.00



# A901

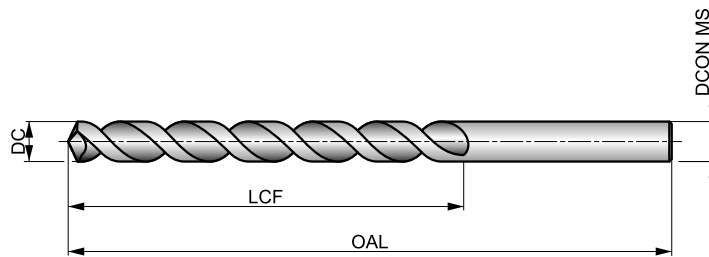


## Foret court PFX en HSS-E (5% Cobalt), revêtement Alcrona

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Il possède une pointe à 130° et une conception spéciale de goujure parabolique. Convient à de nombreux matériaux. Le revêtement Alcrona-TOP améliore les performances et prolonge la durée de vie de l'outil.



## PFX



HSS-E	DIN ANSI	6xD
130°	Alcrona Top	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 58 J	<b>P1.2</b> ■ 65 J	<b>P1.3</b> ■ 68 J	<b>P2.1</b> ■ 50 J	<b>P2.2</b> ■ 44 I	<b>P2.3</b> ■ 39 G	<b>P3.1</b> ■ 49 I	<b>P3.2</b> ■ 39 I	<b>P3.3</b> ■ 33 G	<b>P4.1</b> ■ 29 I	<b>P4.2</b> ■ 25 G	<b>P4.3</b> ■ 20 G	<b>M1.1</b> ■ 23 E	<b>M1.2</b> ■ 20 E
<b>M2.1</b> ■ 21 E	<b>M2.2</b> ■ 17 E	<b>M3.1</b> ■ 10 E	<b>M3.2</b> ■ 9 E	<b>M3.3</b> ■ 8 E	<b>M4.1</b> ■ 11 C	<b>K1.1</b> ■ 58 I	<b>K1.2</b> ■ 43 I	<b>K1.3</b> ■ 32 I	<b>K2.1</b> ■ 42 J	<b>K2.2</b> ■ 34 J	<b>K2.3</b> ■ 27 I	<b>K3.1</b> ■ 37 J	<b>K3.2</b> ■ 28 J
<b>K3.3</b> ■ 23 I	<b>K4.1</b> ■ 34 J	<b>K4.2</b> ■ 26 J	<b>K4.3</b> ■ 19 I	<b>K4.4</b> ■ 16 I	<b>K4.5</b> ■ 14 I	<b>K5.1</b> ■ 39 J	<b>K5.2</b> ■ 29 J	<b>K5.3</b> ■ 23 I	<b>S1.1</b> ■ 35 G	<b>S1.2</b> ■ 24 G	<b>S1.3</b> ■ 10 E	<b>S2.1</b> ■ 15 I	<b>S2.2</b> ■ 14 E
<b>S3.1</b> ■ 11 I	<b>S3.2</b> ■ 10 E	<b>S4.1</b> ■ 9 I	<b>S4.2</b> ■ 8 E										

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9011.5	–	1.50	0.0591	18.0	40.0	1.50
A9011.55	–	1.55	0.0610	20.0	43.0	1.55
A9011/16	1/16	1.59	0.0625	22.0	48.0	1.59
A9011.6	–	1.60	0.0630	20.0	43.0	1.60
A9011.75	–	1.75	0.0689	22.0	46.0	1.75
A9011.8	–	1.80	0.0709	22.0	46.0	1.80
A9011.9	–	1.90	0.0748	22.0	46.0	1.90
A9015/64	5/64	1.98	0.0781	25.0	51.0	1.98
A9012.0	–	2.00	0.0787	24.0	49.0	2.00
A9012.1	–	2.10	0.0827	24.0	49.0	2.10
A9012.15	–	2.15	0.0846	27.0	53.0	2.15
A9013/32	3/32	2.38	0.0937	32.0	57.0	2.38
A9012.4	–	2.40	0.0945	30.0	57.0	2.40
A9012.5	–	2.50	0.0984	30.0	57.0	2.50
A9012.6	–	2.60	0.1024	30.0	57.0	2.60
A9012.7	–	2.70	0.1063	33.0	61.0	2.70
A9017/64	7/64	2.78	0.1094	38.0	67.0	2.78
A9012.9	–	2.90	0.1142	33.0	61.0	2.90
A9013.0	–	3.00	0.1181	33.0	61.0	3.00
A9013.1	–	3.10	0.1220	36.0	65.0	3.10
A9011/8	1/8	3.18	0.1250	41.0	70.0	3.18
A9013.2	–	3.20	0.1260	36.0	65.0	3.20
A9013.3	–	3.30	0.1299	36.0	65.0	3.30
A9013.4	–	3.40	0.1339	39.0	70.0	3.40
A9013.5	–	3.50	0.1378	39.0	70.0	3.50
A9013.6	–	3.60	0.1417	39.0	70.0	3.60

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9019/64	9/64	3.57	0.1406	44.0	73.0	3.57
A9013.7	–	3.70	0.1457	39.0	70.0	3.70
A9013.8	–	3.80	0.1496	43.0	75.0	3.80
A9013.9	–	3.90	0.1535	43.0	75.0	3.90
A9015/32	5/32	3.97	0.1563	51.0	79.0	3.97
A9014.0	–	4.00	0.1575	43.0	75.0	4.00
A9014.1	–	4.10	0.1614	43.0	75.0	4.10
A9014.2	–	4.20	0.1654	43.0	75.0	4.20
A9014.3	–	4.30	0.1693	47.0	80.0	4.30
A90111/64	11/64	4.37	0.1719	54.0	83.0	4.37
A9014.4	–	4.40	0.1732	47.0	80.0	4.40
A9014.5	–	4.50	0.1772	47.0	80.0	4.50
A9014.6	–	4.60	0.1811	47.0	80.0	4.60
A9014.7	–	4.70	0.1850	47.0	80.0	4.70
A9013/16	3/16	4.76	0.1875	59.0	89.0	4.76
A9014.8	–	4.80	0.1890	52.0	86.0	4.80
A9014.9	–	4.90	0.1929	52.0	86.0	4.90
A9015.0	–	5.00	0.1969	52.0	86.0	5.00
A9015.1	–	5.10	0.2008	52.0	86.0	5.10
A90113/64	13/64	5.16	0.2031	62.0	92.0	5.16
A9015.2	–	5.20	0.2047	52.0	86.0	5.20
A9015.3	–	5.30	0.2087	52.0	86.0	5.30
A9015.4	–	5.40	0.2126	57.0	93.0	5.40
A9015.5	–	5.50	0.2165	57.0	93.0	5.50
A9017/32	7/32	5.56	0.2188	64.0	95.0	5.56
A9015.6	–	5.60	0.2205	57.0	93.0	5.60



Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9015.7	–	5.70	0.2244	57.0	93.0	5.70
A9015.8	–	5.80	0.2283	57.0	93.0	5.80
A9015.9	–	5.90	0.2323	57.0	93.0	5.90
A90115/64	15/64	5.95	0.2344	67.0	98.0	5.95
A9016.0	–	6.00	0.2362	57.0	93.0	6.00
A9016.1	–	6.10	0.2402	63.0	101.0	6.10
A9016.2	–	6.20	0.2441	63.0	101.0	6.20
A9016.3	–	6.30	0.2480	63.0	101.0	6.30
A9011/4	1/4	6.35	0.2500	70.0	102.0	6.35
A9016.4	–	6.40	0.2520	63.0	101.0	6.40
A9016.5	–	6.50	0.2559	63.0	101.0	6.50
A9016.6	–	6.60	0.2598	63.0	101.0	6.60
A9016.7	–	6.70	0.2638	63.0	101.0	6.70
A90117/64	17/64	6.75	0.2656	73.0	105.0	6.75
A9016.8	–	6.80	0.2677	69.0	109.0	6.80
A9016.9	–	6.90	0.2717	69.0	109.0	6.90
A9017.0	–	7.00	0.2756	69.0	109.0	7.00
A9017.1	–	7.10	0.2795	69.0	109.0	7.10
A9019/32	9/32	7.14	0.2813	75.0	108.0	7.14
A9017.2	–	7.20	0.2835	69.0	109.0	7.20
A9017.3	–	7.30	0.2874	69.0	109.0	7.30
A9017.4	–	7.40	0.2913	69.0	109.0	7.40
A9017.5	–	7.50	0.2953	69.0	109.0	7.50
A90119/64	19/64	7.54	0.2969	78.0	111.0	7.54
A9017.6	–	7.60	0.2992	75.0	117.0	7.60
A9017.7	–	7.70	0.3031	75.0	117.0	7.70
A9017.8	–	7.80	0.3071	75.0	117.0	7.80
A9017.9	–	7.90	0.3110	75.0	117.0	7.90
A9015/16	5/16	7.94	0.3125	81.0	114.0	7.94
A9018.0	–	8.00	0.3150	75.0	117.0	8.00
A9018.1	–	8.10	0.3189	75.0	117.0	8.10
A9018.2	–	8.20	0.3228	75.0	117.0	8.20
A9018.3	–	8.30	0.3268	75.0	117.0	8.30
A90121/64	21/64	8.33	0.3281	84.0	117.0	8.33
A9018.4	–	8.40	0.3307	75.0	117.0	8.40
A9018.5	–	8.50	0.3346	75.0	117.0	8.50
A9018.6	–	8.60	0.3386	81.0	125.0	8.60
A9018.7	–	8.70	0.3425	81.0	125.0	8.70
A90111/32	11/32	8.73	0.3438	87.0	121.0	8.73
A9018.8	–	8.80	0.3465	81.0	125.0	8.80
A9018.9	–	8.90	0.3504	81.0	125.0	8.90
A9019.0	–	9.00	0.3543	81.0	125.0	9.00
A9019.1	–	9.10	0.3583	81.0	125.0	9.10

Produit	DC	DC	DC	LCF	OAL	D CON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A90123/64	23/64	9.13	0.3594	89.0	124.0	9.13
A9019.2	–	9.20	0.3622	81.0	125.0	9.20
A9019.3	–	9.30	0.3661	81.0	125.0	9.30
A9019.4	–	9.40	0.3701	81.0	125.0	9.40
A9019.5	–	9.50	0.3740	81.0	125.0	9.50
A9013/8	3/8	9.52	0.3750	92.0	127.0	9.52
A9019.6	–	9.60	0.3780	87.0	133.0	9.60
A9019.7	–	9.70	0.3819	87.0	133.0	9.70
A9019.8	–	9.80	0.3858	87.0	133.0	9.80
A9019.9	–	9.90	0.3898	87.0	133.0	9.90
A90125/64	25/64	9.92	0.3906	95.0	130.0	9.92
A90110.0	–	10.00	0.3937	87.0	133.0	10.00
A90110.2	–	10.20	0.4016	87.0	133.0	10.20
A90110.3	–	10.30	0.4055	87.0	133.0	10.30
A90113/32	13/32	10.32	0.4063	98.0	133.0	10.32
A90110.4	–	10.40	0.4094	87.0	133.0	10.40
A90110.5	–	10.50	0.4134	87.0	133.0	10.50
A90127/64	27/64	10.72	0.4219	100.0	137.0	10.72
A90110.8	–	10.80	0.4252	94.0	142.0	10.80
A90111.0	–	11.00	0.4331	94.0	142.0	11.00
A9017/16	7/16	11.11	0.4375	103.0	140.0	11.11
A90111.5	–	11.50	0.4528	94.0	142.0	11.50
A90129/64	29/64	11.51	0.4531	106.0	143.0	11.51
A90111.8	–	11.80	0.4646	94.0	142.0	11.80
A90115/32	15/32	11.91	0.4688	110.0	146.0	11.91
A90112.0	–	12.00	0.4724	101.0	151.0	12.00
A90131/64	31/64	12.30	0.4844	111.0	149.0	12.30
A90112.5	–	12.50	0.4921	101.0	151.0	12.50
A9011/2	1/2	12.70	0.5000	101.0	151.0	12.70
A90113.0	–	13.00	0.5118	101.0	151.0	13.00
A90133/64	33/64	13.10	0.5156	122.0	168.0	13.10
A90113.5	–	13.50	0.5315	108.0	160.0	13.50
A90135/64	35/64	13.89	0.5469	122.0	168.0	13.89
A90114.0	–	14.00	0.5512	108.0	160.0	14.00
A9019/16	9/16	14.29	0.5625	122.0	168.0	14.29
A90114.5	–	14.50	0.5709	114.0	169.0	14.50
A90137/64	37/64	14.68	0.5781	122.0	168.0	14.68
A90115.0	–	15.00	0.5906	114.0	169.0	15.00
A90119/32	19/32	15.08	0.5938	132.0	181.0	15.08
A90139/64	39/64	15.48	0.6094	132.0	181.0	15.48
A90115.5	–	15.50	0.6102	120.0	178.0	15.50
A9015/8	5/8	15.88	0.6250	132.0	181.0	15.88
A90116.0	–	16.00	0.6299	120.0	178.0	16.00

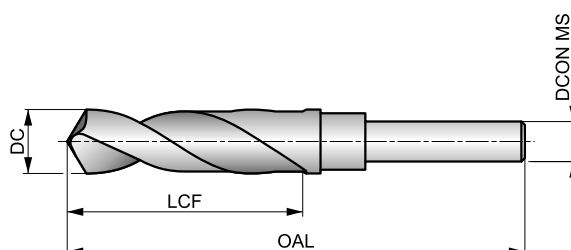


# A170



## Foret en HSS à queue réduite, finition avec traitement vapeur

Foret à queue cylindrique de 1/2 pouce (12,7 mm) permettant, même avec un grand diamètre de coupe, d'être serré dans des outils électriques conventionnels et portatifs. Une pointe à 118° facilite le réaffûtage. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient pour percer de nombreux matériaux.



HSS	DORMER	4xD
118°	ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 H	<b>P1.2</b> ■ 37 H	<b>P1.3</b> ■ 38 H	<b>P2.1</b> ■ 28 H	<b>P2.2</b> ■ 25 F	<b>P2.3</b> ■ 22 D	<b>P3.1</b> ■ 19 E	<b>P3.2</b> ■ 15 E	<b>P3.3</b> ■ 13 D	<b>P4.1</b> ■ 11 E	<b>P4.2</b> ■ 10 D	<b>P4.3</b> ■ 8 C	<b>M1.1</b> ■ 21 D	<b>M1.2</b> ■ 17 D
<b>M2.1</b> ■ 18 D	<b>M2.2</b> ■ 15 D	<b>M3.1</b> ■ 8 F	<b>M3.2</b> ■ 7 F	<b>M3.3</b> ■ 6 F	<b>M4.1</b> ■ 7 B	<b>K1.1</b> ■ 27 H	<b>K1.2</b> ■ 20 E	<b>K1.3</b> ■ 15 E	<b>K2.1</b> ■ 23 D	<b>K2.2</b> ■ 19 D	<b>K2.3</b> ■ 15 D	<b>K3.1</b> ■ 21 D	<b>K3.2</b> ■ 16 D
<b>K3.3</b> ■ 13 D	<b>K4.1</b> ■ 19 D	<b>K4.2</b> ■ 14 D	<b>K4.3</b> ■ 11 D	<b>K4.4</b> ■ 9 D	<b>K4.5</b> ■ 8 D	<b>K5.1</b> ■ 22 D	<b>K5.2</b> ■ 16 D	<b>K5.3</b> ■ 13 D	<b>N1.1</b> ■ 33 I	<b>N1.2</b> ■ 25 I	<b>N1.3</b> ■ 17 H	<b>N2.1</b> ■ 42 G	<b>N2.2</b> ■ 37 G
<b>N2.3</b> ■ 27 G	<b>N3.1</b> ■ 56 G	<b>N3.2</b> ■ 33 H	<b>N3.3</b> ■ 17 F	<b>N4.1</b> ■ 30 I	<b>N4.2</b> ■ 28 G	<b>N4.3</b> ■ 14 E	<b>S1.1</b> ■ 17 E	<b>S1.2</b> ■ 9 C	<b>S1.3</b> ■ 5 A	<b>S2.1</b> ■ 5 D	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 D	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 D	<b>S4.2</b> ■ 2 A												

Produit	DC	DC	DC	LCF	OAL	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(inch)	(inch)	(mm)	(mm)	
A17013.0	-	13.00	0.5118	-	-	83.0	156.0	12,7
A17033/64	33/64	13.10	0.5156	3.1/8	6"	-	-	12,7
A17017/32	17/32	13.49	0.5313	3.1/8	6"	-	-	12,7
A17013.5	-	13.50	0.5315	-	-	83.0	156.0	12,7
A17035/64	35/64	13.89	0.5469	3.1/8	6"	-	-	12,7
A17014.0	-	14.00	0.5512	-	-	83.0	156.0	12,7
A1709/16	9/16	14.29	0.5625	3.1/8	6"	-	-	12,7
A17014.5	-	14.50	0.5709	-	-	83.0	156.0	12,7
A17037/64	37/64	14.68	0.5781	3.1/8	6"	-	-	12,7
A17015.0	-	15.00	0.5906	-	-	83.0	156.0	12,7
A17019/32	19/32	15.08	0.5938	3.1/8	6"	-	-	12,7
A17039/64	39/64	15.48	0.6094	3.1/8	6"	-	-	12,7
A17015.5	-	15.50	0.6102	-	-	83.0	156.0	12,7
A1705/8	5/8	15.88	0.6250	3.1/8	6"	-	-	12,7
A17016.0	-	16.00	0.6299	-	-	84.0	157.0	12,7
A17041/64	41/64	16.27	0.6406	3.1/8	6"	-	-	12,7
A17016.5	-	16.50	0.6496	-	-	84.0	157.0	12,7
A17021/32	21/32	16.67	0.6563	3.1/8	6"	-	-	12,7
A17017.0	-	17.00	0.6693	-	-	84.0	157.0	12,7
A17043/64	43/64	17.07	0.6719	3.1/8	6"	-	-	12,7
A17011/16	11/16	17.46	0.6875	3.1/8	6"	-	-	12,7
A17017.5	-	17.50	0.6890	-	-	84.0	157.0	12,7
A17045/64	45/64	17.86	0.7031	3.1/8	6"	-	-	12,7
A17018.0	-	18.00	0.7087	-	-	84.0	157.0	12,7



Produit	DC	DC	DC	LCF	OAL	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(inch)	(inch)	(mm)	(mm)	(mm)
A17023/32	23/32	18.26	0.7188	3.1/8	6"	–	–	12,7
A17018.5	–	18.50	0.7283	–	–	84.0	157.0	12,7
A17047/64	47/64	18.65	0.7344	3.1/8	6"	–	–	12,7
A17019.0	–	19.00	0.7480	–	–	84.0	157.0	12,7
A1703/4	3/4	19.05	0.7500	3.1/8	6"	–	–	12,7
A17049/64	49/64	19.45	0.7656	3"	6"	–	–	12,7
A17019.5	–	19.50	0.7677	–	–	81.0	158.0	12,7
A17025/32	25/32	19.84	0.7813	3"	6"	–	–	12,7
A17020.0	–	20.00	0.7874	–	–	81.0	158.0	12,7
A17051/64	51/64	20.24	0.7969	3"	6"	–	–	12,7
A17013/16	13/16	20.64	0.8125	3"	6"	–	–	12,7
A17021.0	–	21.00	0.8268	–	–	82.0	158.0	12,7
A17053/64	53/64	21.03	0.8281	3"	6"	–	–	12,7
A17027/32	27/32	21.43	0.8437	3"	6"	–	–	12,7
A17055/64	55/64	21.83	0.8594	3"	6"	–	–	12,7
A17022.0	–	22.00	0.8661	–	–	82.0	158.0	12,7
A1707/8	7/8	22.22	0.8750	3"	6"	–	–	12,7
A17057/64	57/64	22.62	0.8906	3"	6"	–	–	12,7
A17023.0	–	23.00	0.9055	–	–	82.0	158.0	12,7
A17029/32	29/32	23.02	0.9063	3"	6"	–	–	12,7
A17059/64	59/64	23.42	0.9219	3"	6"	–	–	12,7
A17015/16	15/16	23.81	0.9375	3"	6"	–	–	12,7
A17024.0	–	24.00	0.9449	–	–	83.0	159.0	12,7
A17061/64	61/64	24.21	0.9531	3"	6"	–	–	12,7
A17031/32	31/32	24.61	0.9688	3"	6"	–	–	12,7
A17025.0	–	25.00	0.9843	–	–	83.0	159.0	12,7
A17063/64	63/64	25.00	0.9844	3"	6"	–	–	12,7
A1701	1"	25.40	1.0000	3"	6"	–	–	12,7
A1701.1/32	1.1/32	26.19	1.0313	3"	6"	–	–	12,7
A1701.1/16	1.1/16	26.99	1.0625	3"	6"	–	–	12,7
A1701.7/64	1.7/64	28.18	1.1094	3"	6"	–	–	12,7
A1701.1/8	1.1/8	28.58	1.1250	3"	6"	–	–	12,7
A1701.9/64	1.9/64	28.97	1.1406	3"	6"	–	–	12,7
A1701.5/32	1.5/32	29.37	1.1563	3"	6"	–	–	12,7
A1701.3/16	1.3/16	30.16	1.1875	3"	6"	–	–	12,7
A1701.7/32	1.7/32	30.96	1.2188	3"	6"	–	–	12,7
A1701.1/4	1.1/4	31.75	1.2500	3"	6"	–	–	12,7
A1701.5/16	1.5/16	33.34	1.3125	3"	6"	–	–	12,7
A1701.3/8	1.3/8	34.93	1.3750	3"	6"	–	–	12,7
A1701.7/16	1.7/16	36.51	1.4375	3"	6"	–	–	12,7
A1701.1/2	1.1/2	38.10	1.5000	3"	6"	–	–	12,7

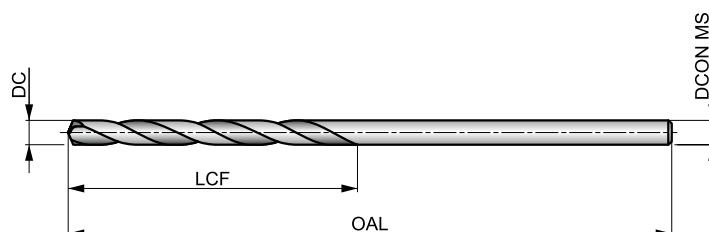


# A243



## Foret aéronautique série longue en HSS, finition brillante

Foret à la norme standard NAS907 équipé d'une pointe à 135° avec affûtage en croix qui facilite l'auto-centrage et empêche la pointe du foret de déraiper sur la surface du matériau. La grande longueur totale combinée à une courte longueur de goujure en fait un outil idéal pour le perçage dans les zones difficiles à atteindre et convient à de nombreux matériaux.



HSS	NAS 907	4xD
135°	Bright	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P2.2</b> ▣ 25 F	<b>P2.3</b> ▣ 22 E	<b>P3.1</b> ▣ 19 F	<b>P3.2</b> ▣ 15 F	<b>P3.3</b> ▣ 13 E	<b>P4.1</b> ▣ 11 F	<b>P4.2</b> ▣ 10 E	<b>P4.3</b> ▣ 8 D	<b>M1.1</b> ▣ 21 E	<b>M1.2</b> ▣ 17 E	<b>M2.1</b> ▣ 18 E	<b>M2.2</b> ▣ 15 E	<b>M3.1</b> ▣ 9 G	<b>M3.2</b> ▣ 8 G
<b>M3.3</b> ▣ 7 G	<b>M4.1</b> ▣ 9 C	<b>K1.1</b> ▣ 30 I	<b>K1.2</b> ▣ 22 F	<b>K1.3</b> ▣ 17 F	<b>K2.1</b> ▣ 25 E	<b>K2.2</b> ▣ 20 E	<b>K2.3</b> ▣ 16 E	<b>K3.1</b> ▣ 22 E	<b>K3.2</b> ▣ 17 E	<b>K3.3</b> ▣ 13 E	<b>K4.1</b> ▣ 20 E	<b>K4.2</b> ▣ 15 E	<b>K4.3</b> ▣ 11 E
<b>K4.4</b> ▣ 10 E	<b>K4.5</b> ▣ 8 E	<b>K5.1</b> ▣ 23 E	<b>K5.2</b> ▣ 17 E	<b>K5.3</b> ▣ 13 E	<b>N3.1</b> ▣ 27 H	<b>S1.1</b> ▣ 23 F	<b>S1.2</b> ▣ 12 D	<b>S1.3</b> ▣ 6 B	<b>S2.1</b> ▣ 8 E	<b>S2.2</b> ▣ 4 A	<b>S3.1</b> ▣ 6 E	<b>S3.2</b> ▣ 3 A	<b>S4.1</b> ▣ 5 E
<b>S4.2</b> ▣ 2 A													

OAL 6" soit 150 mm.

Produit	DC (inch)	DC (inch)	LCF (inch)	OAL (inch)	DCON MS (inch)
A2433/32X6	3/32	0.0938	1.1/4	6"	0.0938
A243N40X6	N40	0.0980	1.3/8	6"	0.0980
A2431/8X6	1/8	0.1250	1.5/8	6"	0.1250
A243N30X6	N30	0.1285	1.5/8	6"	0.1285
A2435/32X6	5/32	0.1563	2"	6"	0.1563
A243N21X6	N21	0.1590	2.1/8	6"	0.1590

Produit	DC (inch)	DC (inch)	LCF (inch)	OAL (inch)	DCON MS (inch)
A243N20X6	N20	0.1610	2.1/8	6"	0.1610
A2433/16X6	3/16	0.1875	2.5/16	6"	0.1875
A243N11X6	N11	0.1910	2.5/16	6"	0.1910
A243N10X6	N10	0.1935	2.7/16	6"	0.1935
A2431/4X6	1/4	0.2500	2.3/4	6"	0.2500

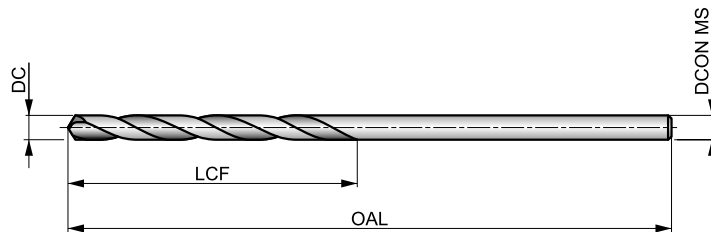


# A244



## Foret aéronautique série longue en HSS, finition brillante

Foret à la norme standard NAS907 équipé d'une pointe à 118° avec affûtage en croix qui facilite l'auto-centrage et empêche la pointe du foret de dérapier sur la surface du matériau. La grande longueur totale combinée à une courte longueur de goujure en fait un outil idéal pour le perçage dans les zones difficiles à atteindre et convient à de nombreux matériaux.



HSS	NAS 907	4xD
118°	Bright	
20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P2.2</b> ■ 25 F	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E	<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G
<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 9 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E	<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E
<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N3.1</b> ■ 27 H	<b>S1.1</b> ■ 23 F	<b>S1.2</b> ■ 12 D	<b>S1.3</b> ■ 6 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 3 A	<b>S4.1</b> ■ 5 E
<b>S4.2</b> ■ 12 A													

OAL 6" soit 150 mm.

Produit	DC	DC	LCF	OAL	DCON MS
	(inch)	(inch)	(inch)	(inch)	(inch)
A2441/8X6	1/8	0.1250	1.5/8	6"	0.1250
A2445/32X6	5/32	0.1563	2"	6"	0.1563
A2443/16X6	3/16	0.1875	2.5/16	6"	0.1875
A2441/4X6	1/4	0.2500	2.3/4	6"	0.2500



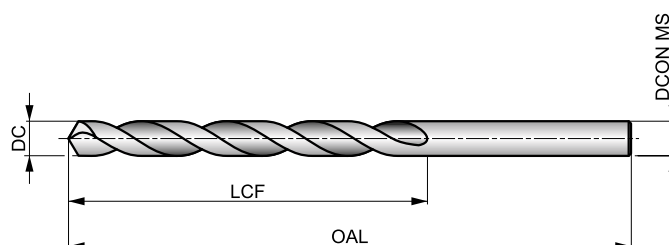


# A110



## Foret série longue en HSS, finition avec traitement vapeur

Foret pour perçage de trous plus profonds. Sa pointe conventionnelle à 118° offre de la résistance et est facile à réaffûter ce qui la rend très économique. Convient pour percer de nombreux matériaux. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Pour le perçage manuel et sur machines.



HSS	DIN 340	6xD
118°	ST	
λ20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 27 G	<b>P1.2</b> ■ 30 G	<b>P1.3</b> ■ 31 G	<b>P2.1</b> ■ 23 G	<b>P2.2</b> ■ 20 E	<b>P2.3</b> ■ 18 D	<b>P3.1</b> ■ 13 E	<b>P3.2</b> ■ 11 E	<b>P3.3</b> ■ 9 D	<b>P4.1</b> ■ 8 E	<b>P4.2</b> ■ 7 D	<b>P4.3</b> ■ 5 B	<b>M1.1</b> ■ 14 D	<b>M1.2</b> ■ 12 D
<b>M2.1</b> ■ 12 D	<b>M2.2</b> ■ 10 D	<b>M3.1</b> ■ 7 F	<b>M3.2</b> ■ 6 F	<b>M3.3</b> ■ 5 F	<b>M4.1</b> ■ 4 B	<b>K1.1</b> ■ 28 H	<b>K1.2</b> ■ 21 E	<b>K1.3</b> ■ 16 E	<b>K2.1</b> ■ 18 D	<b>K2.2</b> ■ 15 D	<b>K2.3</b> ■ 12 D	<b>K3.1</b> ■ 16 D	<b>K3.2</b> ■ 12 D
<b>K3.3</b> ■ 10 D	<b>K4.1</b> ■ 15 D	<b>K4.2</b> ■ 11 D	<b>K4.3</b> ■ 8 D	<b>K4.4</b> ■ 7 D	<b>K4.5</b> ■ 6 D	<b>K5.1</b> ■ 17 D	<b>K5.2</b> ■ 13 D	<b>K5.3</b> ■ 10 D	<b>N1.1</b> ■ 32 I	<b>N1.2</b> ■ 24 I	<b>N1.3</b> ■ 16 H	<b>N2.1</b> ■ 42 G	<b>N2.2</b> ■ 37 G
<b>N2.3</b> ■ 27 G	<b>N3.1</b> ■ 54 G	<b>N3.2</b> ■ 32 H	<b>N3.3</b> ■ 16 E	<b>N4.1</b> ■ 35 I	<b>N4.2</b> ■ 26 G	<b>N4.3</b> ■ 12 E	<b>S1.1</b> ■ 17 E	<b>S1.2</b> ■ 9 C	<b>S1.3</b> ■ 4 A	<b>S2.1</b> ■ 5 D	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 D	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 D	<b>S4.2</b> ■ 2 A												

DC <= 1mm; 1/16" Brillant.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A110.5	-	0.50	0.0197	12.0	32.0	0.50
A110.6	-	0.60	0.0236	15.0	35.0	0.60
A110.7	-	0.70	0.0276	21.0	42.0	0.70
A1101/32	1/32	0.79	0.0313	25.0	46.0	0.79
A110.8	-	0.80	0.0315	25.0	46.0	0.80
A110.9	-	0.90	0.0354	29.0	51.0	0.90
A1101.0	-	1.00	0.0394	33.0	56.0	1.00
A1101.1	-	1.10	0.0433	37.0	60.0	1.10
A1101.2	-	1.20	0.0472	41.0	65.0	1.20
A1101.3	-	1.30	0.0512	41.0	65.0	1.30
A1101.4	-	1.40	0.0551	45.0	70.0	1.40
A1101.5	-	1.50	0.0591	45.0	70.0	1.50
A1101/16	1/16	1.59	0.0625	50.0	76.0	1.59
A1101.6	-	1.60	0.0630	50.0	76.0	1.60
A1101.7	-	1.70	0.0669	50.0	76.0	1.70
A1101.75	-	1.75	0.0689	53.0	80.0	1.75
A1101.8	-	1.80	0.0709	53.0	80.0	1.80
A1101.9	-	1.90	0.0748	53.0	80.0	1.90
A1105/64	5/64	1.98	0.0781	56.0	85.0	1.98
A1102.0	-	2.00	0.0787	56.0	85.0	2.00
A1102.05	-	2.05	0.0807	56.0	85.0	2.05
A1102.1	-	2.10	0.0827	56.0	85.0	2.10
A1102.2	-	2.20	0.0866	59.0	90.0	2.20
A1102.25	-	2.25	0.0886	59.0	90.0	2.25

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1102.3	-	2.30	0.0906	59.0	90.0	2.30
A1103/32	3/32	2.38	0.0938	62.0	95.0	2.38
A1102.4	-	2.40	0.0945	62.0	95.0	2.40
A1102.5	-	2.50	0.0984	62.0	95.0	2.50
A1102.6	-	2.60	0.1024	62.0	95.0	2.60
A1102.7	-	2.70	0.1063	66.0	100.0	2.70
A1107/64	7/64	2.78	0.1094	66.0	100.0	2.78
A1102.8	-	2.80	0.1102	66.0	100.0	2.80
A1102.9	-	2.90	0.1142	66.0	100.0	2.90
A1103.0	-	3.00	0.1181	66.0	100.0	3.00
A1103.1	-	3.10	0.1220	69.0	106.0	3.10
A1101/8	1/8	3.18	0.1250	69.0	106.0	3.18
A1103.2	-	3.20	0.1260	69.0	106.0	3.20
A1103.25	-	3.25	0.1280	69.0	106.0	3.25
A1103.3	-	3.30	0.1299	69.0	106.0	3.30
A1103.4	-	3.40	0.1339	73.0	112.0	3.40
A1103.5	-	3.50	0.1378	73.0	112.0	3.50
A1109/64	9/64	3.57	0.1406	73.0	112.0	3.57
A1103.6	-	3.60	0.1417	73.0	112.0	3.60
A1103.7	-	3.70	0.1457	73.0	112.0	3.70
A1103.75	-	3.75	0.1476	73.0	112.0	3.75
A1103.8	-	3.80	0.1496	78.0	119.0	3.80
A1103.9	-	3.90	0.1535	78.0	119.0	3.90
A1105/32	5/32	3.97	0.1563	78.0	119.0	3.97



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1104.0	–	4.00	0.1575	78.0	119.0	4.00
A1104.1	–	4.10	0.1614	78.0	119.0	4.10
A1104.2	–	4.20	0.1654	78.0	119.0	4.20
A1104.25	–	4.25	0.1673	78.0	119.0	4.25
A1104.3	–	4.30	0.1693	82.0	126.0	4.30
A11011/64	11/64	4.37	0.1719	82.0	126.0	4.37
A1104.4	–	4.40	0.1732	82.0	126.0	4.40
A1104.5	–	4.50	0.1772	82.0	126.0	4.50
A1104.6	–	4.60	0.1811	82.0	126.0	4.60
A1104.7	–	4.70	0.1850	82.0	126.0	4.70
A1104.75	–	4.75	0.1870	82.0	126.0	4.75
A1103/16	3/16	4.76	0.1875	87.0	132.0	4.76
A1104.8	–	4.80	0.1890	87.0	132.0	4.80
A1104.9	–	4.90	0.1929	87.0	132.0	4.90
A1105.0	–	5.00	0.1969	87.0	132.0	5.00
A1105.1	–	5.10	0.2008	87.0	132.0	5.10
A11013/64	13/64	5.16	0.2031	87.0	132.0	5.16
A1105.2	–	5.20	0.2047	87.0	132.0	5.20
A1105.25	–	5.25	0.2067	87.0	132.0	5.25
A1105.3	–	5.30	0.2087	87.0	132.0	5.30
A1105.4	–	5.40	0.2126	91.0	139.0	5.40
A1105.5	–	5.50	0.2165	91.0	139.0	5.50
A1107/32	7/32	5.56	0.2188	91.0	139.0	5.56
A1105.6	–	5.60	0.2205	91.0	139.0	5.60
A1105.7	–	5.70	0.2244	91.0	139.0	5.70
A1105.75	–	5.75	0.2264	91.0	139.0	5.75
A1105.8	–	5.80	0.2283	91.0	139.0	5.80
A1105.9	–	5.90	0.2323	91.0	139.0	5.90
A11015/64	15/64	5.95	0.2344	91.0	139.0	5.95
A1106.0	–	6.00	0.2362	91.0	139.0	6.00
A1106.1	–	6.10	0.2402	97.0	148.0	6.10
A1106.2	–	6.20	0.2441	97.0	148.0	6.20
A1106.25	–	6.25	0.2461	97.0	148.0	6.25
A1106.3	–	6.30	0.2480	97.0	148.0	6.30
A1101/4	1/4	6.35	0.2500	97.0	148.0	6.35
A1106.4	–	6.40	0.2520	97.0	148.0	6.40
A1106.5	–	6.50	0.2559	97.0	148.0	6.50
A1106.6	–	6.60	0.2598	97.0	148.0	6.60
A1106.7	–	6.70	0.2638	97.0	148.0	6.70
A11017/64	17/64	6.75	0.2656	102.0	156.0	6.75
A1106.75	–	6.75	0.2657	102.0	156.0	6.75
A1106.8	–	6.80	0.2677	102.0	156.0	6.80
A1106.9	–	6.90	0.2717	102.0	156.0	6.90
A1107.0	–	7.00	0.2756	102.0	156.0	7.00
A1107.1	–	7.10	0.2795	102.0	156.0	7.10
A1109/32	9/32	7.14	0.2813	102.0	156.0	7.14
A1107.2	–	7.20	0.2835	102.0	156.0	7.20
A1107.25	–	7.25	0.2854	102.0	156.0	7.25
A1107.3	–	7.30	0.2874	102.0	156.0	7.30
A1107.4	–	7.40	0.2913	102.0	156.0	7.40
A1107.5	–	7.50	0.2953	102.0	156.0	7.50
A1107.6	–	7.60	0.2992	109.0	165.0	7.60
A1107.7	–	7.70	0.3031	109.0	165.0	7.70
A1107.75	–	7.75	0.3051	109.0	165.0	7.75
A1107.8	–	7.80	0.3071	109.0	165.0	7.80
A1107.9	–	7.90	0.3110	109.0	165.0	7.90
A1105/16	5/16	7.94	0.3125	109.0	165.0	7.94
A1108.0	–	8.00	0.3150	109.0	165.0	8.00
A1108.1	–	8.10	0.3189	109.0	165.0	8.10
A1108.2	–	8.20	0.3228	109.0	165.0	8.20
A1108.25	–	8.25	0.3248	109.0	165.0	8.25
A1108.3	–	8.30	0.3268	109.0	165.0	8.30
A1108.4	–	8.40	0.3307	109.0	165.0	8.40
A1108.5	–	8.50	0.3346	109.0	165.0	8.50
A1108.6	–	8.60	0.3386	115.0	175.0	8.60

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1108.7	–	8.70	0.3425	115.0	175.0	8.70
A11011/32	11/32	8.73	0.3438	115.0	175.0	8.73
A1108.75	–	8.75	0.3445	115.0	175.0	8.75
A1108.8	–	8.80	0.3465	115.0	175.0	8.80
A1108.9	–	8.90	0.3504	115.0	175.0	8.90
A1109.0	–	9.00	0.3543	115.0	175.0	9.00
A1109.1	–	9.10	0.3583	115.0	175.0	9.10
A1109.2	–	9.20	0.3622	115.0	175.0	9.20
A1109.25	–	9.25	0.3642	115.0	175.0	9.25
A1109.3	–	9.30	0.3661	115.0	175.0	9.30
A1109.4	–	9.40	0.3701	115.0	175.0	9.40
A1109.5	–	9.50	0.3740	115.0	175.0	9.50
A1103/8	3/8	9.52	0.3750	121.0	184.0	9.52
A1109.6	–	9.60	0.3780	121.0	184.0	9.60
A1109.7	–	9.70	0.3819	121.0	184.0	9.70
A1109.75	–	9.75	0.3839	121.0	184.0	9.75
A1109.8	–	9.80	0.3858	121.0	184.0	9.80
A1109.9	–	9.90	0.3898	121.0	184.0	9.90
A11010.0	–	10.00	0.3937	121.0	184.0	10.00
A11010.1	–	10.10	0.3976	121.0	184.0	10.10
A11010.2	–	10.20	0.4016	121.0	184.0	10.20
A11010.25	–	10.25	0.4035	121.0	184.0	10.25
A11010.3	–	10.30	0.4055	121.0	184.0	10.30
A11013/32	13/32	10.32	0.4063	121.0	184.0	10.32
A11010.5	–	10.50	0.4134	121.0	184.0	10.50
A11010.75	–	10.75	0.4232	128.0	195.0	10.75
A11010.8	–	10.80	0.4252	128.0	195.0	10.80
A11011.0	–	11.00	0.4331	128.0	195.0	11.00
A1107/16	7/16	11.11	0.4375	128.0	195.0	11.11
A11011.25	–	11.25	0.4429	128.0	195.0	11.25
A11011.4	–	11.40	0.4488	128.0	195.0	11.40
A11011.5	–	11.50	0.4528	128.0	195.0	11.50
A11011.75	–	11.75	0.4626	128.0	195.0	11.75
A11012.0	–	12.00	0.4724	134.0	205.0	12.00
A11012.1	–	12.10	0.4764	134.0	205.0	12.10
A11012.25	–	12.25	0.4823	134.0	205.0	12.25
A11012.5	–	12.50	0.4921	134.0	205.0	12.50
A1101/2	1/2	12.70	0.5000	134.0	205.0	12.70
A11013.0	–	13.00	0.5118	134.0	205.0	13.00
A11017/32	17/32	13.49	0.5313	140.0	214.0	13.49
A11013.5	–	13.50	0.5315	140.0	214.0	13.50
A11014.0	–	14.00	0.5512	140.0	214.0	14.00
A1109/16	9/16	14.29	0.5625	144.0	220.0	14.29
A11014.5	–	14.50	0.5709	144.0	220.0	14.50
A11015.0	–	15.00	0.5906	144.0	220.0	15.00
A11015.5	–	15.50	0.6102	149.0	227.0	15.50
A1105/8	5/8	15.88	0.6250	149.0	227.0	15.88
A11016.0	–	16.00	0.6299	149.0	227.0	16.00
A11016.5	–	16.50	0.6496	154.0	235.0	16.50
A11017.0	–	17.00	0.6693	154.0	235.0	17.00
A11011/16	11/16	17.46	0.6875	158.0	241.0	17.46
A11017.5	–	17.50	0.6890	158.0	241.0	17.50
A11018.0	–	18.00	0.7087	158.0	241.0	18.00
A11018.5	–	18.50	0.7283	162.0	247.0	18.50
A11019.0	–	19.00	0.7480	162.0	247.0	19.00
A1103/4	3/4	19.05	0.7500	166.0	254.0	19.05
A11019.5	–	19.50	0.7677	166.0	254.0	19.50
A11020.0	–	20.00	0.7874	166.0	254.0	20.00
A11021.0	–	21.00	0.8268	171.0	261.0	21.00
A11022.0	–	22.00	0.8661	176.0	268.0	22.00
A1107/8	7/8	22.22	0.8750	176.0	268.0	22.22
A11015/16	15/16	23.81	0.9375	185.0	282.0	23.81
A1101	1"	25.40	1.0000	190.0	290.0	25.40



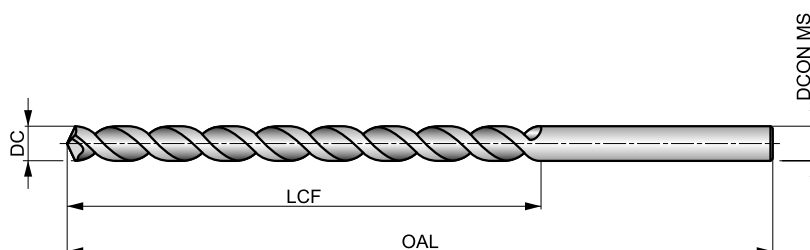
# A940



## Foret série longue PFX en HSS-E (5% cobalt), finition brillante

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Sa pointe auto-centrante à 130° et la conception spéciale de sa goujure parabolique permettent de percer des trous très profonds en une seule passe. Convient à de nombreux matériaux.

## PFX



HSS-E	DIN ANSI	10xD
130°	Bright	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 F	<b>P1.2</b> ■ 33 F	<b>P1.3</b> ■ 34 F	<b>P2.1</b> ■ 25 F	<b>P2.2</b> ■ 22 G	<b>P2.3</b> ■ 19 C	<b>P3.1</b> ■ 25 G	<b>P3.2</b> ■ 20 G	<b>P3.3</b> ■ 17 C	<b>P4.1</b> ■ 15 G	<b>P4.2</b> ■ 13 C	<b>P4.3</b> ■ 10 C	<b>M1.1</b> ■ 21 C	<b>M1.2</b> ■ 17 C
<b>M2.1</b> ■ 18 C	<b>M2.2</b> ■ 15 C	<b>M3.1</b> ■ 8 E	<b>M3.2</b> ■ 7 E	<b>M3.3</b> ■ 6 E	<b>M4.1</b> ■ 9 B	<b>K2.1</b> ■ 20 I	<b>K2.2</b> ■ 16 I	<b>K2.3</b> ■ 13 H	<b>K3.1</b> ■ 17 I	<b>K3.2</b> ■ 13 I	<b>K3.3</b> ■ 11 H	<b>K4.1</b> ■ 16 I	<b>K4.2</b> ■ 12 I
<b>K4.3</b> ■ 9 H	<b>K4.4</b> ■ 8 H	<b>K4.5</b> ■ 6 H	<b>K5.1</b> ■ 18 I	<b>K5.2</b> ■ 14 I	<b>K5.3</b> ■ 11 H	<b>N1.1</b> ■ 53 H	<b>N1.2</b> ■ 40 H	<b>N1.3</b> ■ 27 N	<b>N2.1</b> ■ 62 N	<b>N2.2</b> ■ 55 N	<b>N2.3</b> ■ 40 N	<b>N3.1</b> ■ 119 G	<b>N3.2</b> ■ 70 F
<b>N3.3</b> ■ 35 F	<b>N4.1</b> ■ 55 H	<b>N4.2</b> ■ 40 F	<b>S1.1</b> ■ 18 E	<b>S1.2</b> ■ 13 C	<b>S1.3</b> ■ 6 C								

DC >= 9.6mm moins de 10xD.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9401.0	-	1.00	0.0394	33.0	56.0	1.00
A9401.1	-	1.10	0.0433	37.0	60.0	1.10
A9403/64	3/64	1.19	0.0469	29.0	57.0	1.19
A9401.2	-	1.20	0.0472	41.0	65.0	1.20
A9401.3	-	1.30	0.0512	41.0	65.0	1.30
A9401.4	-	1.40	0.0551	45.0	70.0	1.40
A9401.5	-	1.50	0.0591	45.0	70.0	1.50
A9401/16	1/16	1.59	0.0625	44.0	76.0	1.59
A9401.6	-	1.60	0.0630	50.0	76.0	1.60
A9401.7	-	1.70	0.0669	50.0	76.0	1.70
A9401.8	-	1.80	0.0709	53.0	80.0	1.80
A9401.9	-	1.90	0.0748	53.0	80.0	1.90
A9405/64	5/64	1.98	0.0781	51.0	95.0	1.98
A9402.0	-	2.00	0.0787	56.0	85.0	2.00
A9402.1	-	2.10	0.0827	56.0	85.0	2.10
A9402.2	-	2.20	0.0866	59.0	90.0	2.20
A9402.3	-	2.30	0.0906	59.0	90.0	2.30
A9403/32	3/32	2.38	0.0938	57.0	108.0	2.38
A9402.4	-	2.40	0.0945	62.0	95.0	2.40
A9402.5	-	2.50	0.0984	62.0	95.0	2.50
A9402.6	-	2.60	0.1024	62.0	95.0	2.60
A9402.7	-	2.70	0.1063	66.0	100.0	2.70
A9407/64	7/64	2.78	0.1094	64.0	117.0	2.78
A9402.8	-	2.80	0.1102	66.0	100.0	2.80
A9402.9	-	2.90	0.1142	66.0	100.0	2.90

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9403.0	-	3.00	0.1181	66.0	100.0	3.00
A9403.1	-	3.10	0.1220	69.0	106.0	3.10
A9401/8	1/8	3.18	0.1250	70.0	130.0	3.18
A9403.2	-	3.20	0.1260	69.0	106.0	3.20
A9403.3	-	3.30	0.1299	69.0	106.0	3.30
A9403.4	-	3.40	0.1339	73.0	112.0	3.40
A9403.5	-	3.50	0.1378	73.0	112.0	3.50
A9409/64	9/64	3.57	0.1406	76.0	137.0	3.57
A9403.6	-	3.60	0.1417	73.0	112.0	3.60
A9403.7	-	3.70	0.1457	73.0	112.0	3.70
A9403.8	-	3.80	0.1496	78.0	119.0	3.80
A9403.9	-	3.90	0.1535	78.0	119.0	3.90
A9405/32	5/32	3.97	0.1563	76.0	137.0	3.97
A9404.0	-	4.00	0.1575	78.0	119.0	4.00
A9404.1	-	4.10	0.1614	78.0	119.0	4.10
A9404.2	-	4.20	0.1654	78.0	119.0	4.20
A9404.3	-	4.30	0.1693	82.0	126.0	4.30
A94011/64	11/64	4.37	0.1719	86.0	146.0	4.37
A9404.4	-	4.40	0.1732	82.0	126.0	4.40
A9404.5	-	4.50	0.1772	82.0	126.0	4.50
A9404.6	-	4.60	0.1811	82.0	126.0	4.60
A9404.7	-	4.70	0.1850	82.0	126.0	4.70
A9403/16	3/16	4.76	0.1875	86.0	146.0	4.76
A9404.8	-	4.80	0.1890	87.0	132.0	4.80
A9404.9	-	4.90	0.1929	87.0	132.0	4.90



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9405.0	–	5.00	0.1969	87.0	132.0	5.00
A9405.1	–	5.10	0.2008	87.0	132.0	5.10
A94013/64	13/64	5.16	0.2031	92.0	152.0	5.16
A9405.2	–	5.20	0.2047	87.0	132.0	5.20
A9405.3	–	5.30	0.2087	87.0	132.0	5.30
A9405.4	–	5.40	0.2126	91.0	139.0	5.40
A9405.5	–	5.50	0.2165	91.0	139.0	5.50
A9407/32	7/32	5.56	0.2188	92.0	152.0	5.56
A9405.6	–	5.60	0.2205	91.0	139.0	5.60
A9405.7	–	5.70	0.2244	91.0	139.0	5.70
A9405.8	–	5.80	0.2283	91.0	139.0	5.80
A9405.9	–	5.90	0.2323	91.0	139.0	5.90
A94015/64	15/64	5.95	0.2344	95.0	156.0	5.95
A9406.0	–	6.00	0.2362	91.0	139.0	6.00
A9406.1	–	6.10	0.2402	97.0	148.0	6.10
A9406.2	–	6.20	0.2441	97.0	148.0	6.20
A9406.3	–	6.30	0.2480	97.0	148.0	6.30
A9401/4	1/4	6.35	0.2500	95.0	156.0	6.35
A9406.4	–	6.40	0.2520	97.0	148.0	6.40
A9406.5	–	6.50	0.2559	97.0	148.0	6.50
A9406.6	–	6.60	0.2598	97.0	148.0	6.60
A9406.7	–	6.70	0.2638	97.0	148.0	6.70
A94017/64	17/64	6.75	0.2656	98.0	159.0	6.75
A9406.8	–	6.80	0.2677	102.0	156.0	6.80
A9406.9	–	6.90	0.2717	102.0	156.0	6.90
A9407.0	–	7.00	0.2756	102.0	156.0	7.00
A9407.1	–	7.10	0.2795	102.0	156.0	7.10
A9409/32	9/32	7.14	0.2813	98.0	159.0	7.14
A9407.2	–	7.20	0.2835	102.0	156.0	7.20
A9407.3	–	7.30	0.2874	102.0	156.0	7.30
A9407.4	–	7.40	0.2913	102.0	156.0	7.40
A9407.5	–	7.50	0.2953	102.0	156.0	7.50
A94019/64	19/64	7.54	0.2969	102.0	162.0	7.54
A9407.6	–	7.60	0.2992	109.0	165.0	7.60
A9407.7	–	7.70	0.3031	109.0	165.0	7.70
A9407.8	–	7.80	0.3071	109.0	165.0	7.80
A9407.9	–	7.90	0.3110	109.0	165.0	7.90
A9405/16	5/16	7.94	0.3125	102.0	162.0	7.94
A9408.0	–	8.00	0.3150	109.0	165.0	8.00
A9408.1	–	8.10	0.3189	109.0	165.0	8.10
A9408.2	–	8.20	0.3228	109.0	165.0	8.20
A9408.3	–	8.30	0.3268	109.0	165.0	8.30
A94021/64	21/64	8.33	0.3281	105.0	165.0	8.33
A9408.4	–	8.40	0.3307	109.0	165.0	8.40
A9408.5	–	8.50	0.3346	109.0	165.0	8.50
A9408.6	–	8.60	0.3386	115.0	175.0	8.60
A9408.7	–	8.70	0.3425	115.0	175.0	8.70
A94011/32	11/32	8.73	0.3438	105.0	165.0	8.73
A9408.8	–	8.80	0.3465	115.0	175.0	8.80
A9408.9	–	8.90	0.3504	115.0	175.0	8.90
A9409.0	–	9.00	0.3543	115.0	175.0	9.00
A9409.1	–	9.10	0.3583	115.0	175.0	9.10
A94023/64	23/64	9.13	0.3594	108.0	171.0	9.13
A9409.2	–	9.20	0.3622	115.0	175.0	9.20
A9409.3	–	9.30	0.3661	115.0	175.0	9.30
A9409.4	–	9.40	0.3701	115.0	175.0	9.40

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9409.5	–	9.50	0.3740	115.0	175.0	9.50
A9403/8	3/8	9.52	0.3750	108.0	171.0	9.52
A9409.6	–	9.60	0.3780	121.0	184.0	9.60
A9409.7	–	9.70	0.3819	121.0	184.0	9.70
A9409.8	–	9.80	0.3858	121.0	184.0	9.80
A9409.9	–	9.90	0.3898	121.0	184.0	9.90
A94025/64	25/64	9.92	0.3906	111.0	178.0	9.92
A94010.0	–	10.00	0.3937	121.0	184.0	10.00
A94010.2	–	10.20	0.4016	121.0	184.0	10.20
A94010.3	–	10.30	0.4055	121.0	184.0	10.30
A94013/32	13/32	10.32	0.4063	111.0	178.0	10.32
A94010.5	–	10.50	0.4134	121.0	184.0	10.50
A94027/64	27/64	10.72	0.4219	117.0	184.0	10.72
A94011.0	–	11.00	0.4331	128.0	195.0	11.00
A9407/16	7/16	11.11	0.4375	117.0	184.0	11.11
A94011.2	–	11.20	0.4409	128.0	195.0	11.20
A94011.5	–	11.50	0.4528	128.0	195.0	11.50
A94029/64	29/64	11.51	0.4531	121.0	190.0	11.51
A94011.8	–	11.80	0.4646	128.0	195.0	11.80
A94015/32	15/32	11.91	0.4688	121.0	190.0	11.91
A94012.0	–	12.00	0.4724	134.0	205.0	12.00
A94012.2	–	12.20	0.4803	134.0	205.0	12.20
A94031/64	31/64	12.30	0.4844	121.0	197.0	12.30
A94012.5	–	12.50	0.4921	134.0	205.0	12.50
A9401/2	1/2	12.70	0.5000	121.0	197.0	12.70
A94013.0	–	13.00	0.5118	134.0	205.0	13.00
A94033/64	33/64	13.10	0.5156	121.0	203.0	13.10
A94017/32	17/32	13.49	0.5313	121.0	203.0	13.49
A94013.5	–	13.50	0.5315	140.0	214.0	13.50
A94035/64	35/64	13.89	0.5469	124.0	210.0	13.89
A94014.0	–	14.00	0.5512	140.0	214.0	14.00
A9409/16	9/16	14.29	0.5625	124.0	210.0	14.29
A94014.5	–	14.50	0.5709	144.0	220.0	14.50
A94037/64	37/64	14.68	0.5781	124.0	222.0	14.68
A94015.0	–	15.00	0.5906	144.0	220.0	15.00
A94019/32	19/32	15.08	0.5938	124.0	222.0	15.08
A94039/64	39/64	15.48	0.6094	124.0	222.0	15.48
A94015.5	–	15.50	0.6102	149.0	227.0	15.50
A9405/8	5/8	15.88	0.6250	124.0	222.0	15.88
A94016.0	–	16.00	0.6299	149.0	227.0	16.00
A94041/64	41/64	16.27	0.6406	130.0	229.0	16.27
A94016.5	–	16.50	0.6496	154.0	235.0	16.50
A94021/32	21/32	16.67	0.6563	130.0	229.0	16.67
A94017.0	–	17.00	0.6693	154.0	235.0	17.00
A94043/64	43/64	17.07	0.6719	137.0	235.0	17.07
A94011/16	11/16	17.46	0.6875	137.0	235.0	17.46
A94017.5	–	17.50	0.6890	158.0	241.0	17.50
A94045/64	45/64	17.86	0.7031	143.0	241.0	17.86
A94018.0	–	18.00	0.7087	158.0	241.0	18.00
A94023/32	23/32	18.26	0.7188	143.0	241.0	18.26
A94047/64	47/64	18.65	0.7344	149.0	248.0	18.65
A94019.0	–	19.00	0.7480	162.0	247.0	19.00
A9403/4	3/4	19.05	0.7500	149.0	248.0	19.05
A94049/64	49/64	19.45	0.7656	152.0	251.0	19.45
A94025/32	25/32	19.84	0.7813	152.0	251.0	19.84
A94020.0	–	20.00	0.7874	166.0	254.0	20.00



# A941

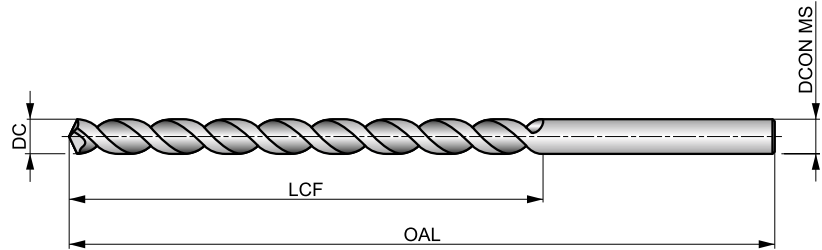


## Foret série longue PFX en HSS-E (5% cobalt), revêtement Alcrona

Foret haute performance capable de produire des trous de haute qualité et précis à des vitesses et des avances élevées (tolérance de trou H10). Il possède une pointe auto-centrante à 130° et une conception spéciale de goujure parabolique. Convient à de nombreux matériaux. Le revêtement Alcrona-TOP améliore les performances et prolonge la durée de vie de l'outil.



### PFX



HSS-E	DIN ANSI	10xD
130°	Alcrona Top	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 48 G	<b>P1.2</b> ■ 53 G	<b>P1.3</b> ■ 55 G	<b>P2.1</b> ■ 41 G	<b>P2.2</b> ■ 36 G	<b>P2.3</b> ■ 32 D	<b>P3.1</b> ■ 34 G	<b>P3.2</b> ■ 27 G	<b>P3.3</b> ■ 23 D	<b>P4.1</b> ■ 20 G	<b>P4.2</b> ■ 17 D	<b>P4.3</b> ■ 14 D	<b>M1.1</b> ■ 23 C	<b>M1.2</b> ■ 20 C
<b>M2.1</b> ■ 21 C	<b>M2.2</b> ■ 17 C	<b>M3.1</b> ■ 10 E	<b>M3.2</b> ■ 9 E	<b>M3.3</b> ■ 8 E	<b>M4.1</b> ■ 11 B	<b>K1.1</b> ■ 36 I	<b>K1.2</b> ■ 27 I	<b>K1.3</b> ■ 20 I	<b>K2.1</b> ■ 37 I	<b>K2.2</b> ■ 30 I	<b>K2.3</b> ■ 24 H	<b>K3.1</b> ■ 33 I	<b>K3.2</b> ■ 25 I
<b>K3.3</b> ■ 20 H	<b>K4.1</b> ■ 30 I	<b>K4.2</b> ■ 23 I	<b>K4.3</b> ■ 17 H	<b>K4.4</b> ■ 14 H	<b>K4.5</b> ■ 12 H	<b>K5.1</b> ■ 34 I	<b>K5.2</b> ■ 26 I	<b>K5.3</b> ■ 20 H	<b>S1.1</b> ■ 25 F	<b>S1.2</b> ■ 18 D	<b>S1.3</b> ■ 18 D		

DC >= 9.6mm moins de 10xD.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)			
A9411.0	-	1.00	0.0394	33.0	56.0	1.00
A9413/64	3/64	1.19	0.0469	29.0	57.0	1.19
A9411.5	-	1.50	0.0591	45.0	70.0	1.50
A9411/16	1/16	1.59	0.0625	44.0	76.0	1.59
A9415/64	5/64	1.98	0.0781	51.0	95.0	1.98
A9412.0	-	2.00	0.0787	56.0	85.0	2.00
A9413/32	3/32	2.38	0.0938	57.0	108.0	2.38
A9412.5	-	2.50	0.0984	62.0	95.0	2.50
A9417/64	7/64	2.78	0.1094	64.0	117.0	2.78
A9413.0	-	3.00	0.1181	66.0	100.0	3.00
A9413.1	-	3.10	0.1220	69.0	106.0	3.10
A9411/8	1/8	3.18	0.1250	70.0	130.0	3.18
A9413.2	-	3.20	0.1260	69.0	106.0	3.20
A9413.3	-	3.30	0.1299	69.0	106.0	3.30
A9413.4	-	3.40	0.1339	73.0	112.0	3.40
A9413.5	-	3.50	0.1378	73.0	112.0	3.50
A9419/64	9/64	3.57	0.1406	76.0	137.0	3.57
A9413.6	-	3.60	0.1417	73.0	112.0	3.60
A9413.7	-	3.70	0.1457	73.0	112.0	3.70
A9413.8	-	3.80	0.1496	78.0	119.0	3.80
A9413.9	-	3.90	0.1535	78.0	119.0	3.90
A9415/32	5/32	3.97	0.1563	76.0	137.0	3.97
A9414.0	-	4.00	0.1575	78.0	119.0	4.00
A9414.1	-	4.10	0.1614	78.0	119.0	4.10
A9414.2	-	4.20	0.1654	78.0	119.0	4.20
A9414.3	-	4.30	0.1693	82.0	126.0	4.30
A94111/64	11/64	4.37	0.1719	86.0	146.0	4.37

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)			
A9414.4	-	4.40	0.1732	82.0	126.0	4.40
A9414.5	-	4.50	0.1772	82.0	126.0	4.50
A9414.6	-	4.60	0.1811	82.0	126.0	4.60
A9414.7	-	4.70	0.1850	82.0	126.0	4.70
A9413/16	3/16	4.76	0.1875	86.0	146.0	4.76
A9414.8	-	4.80	0.1890	87.0	132.0	4.80
A9414.9	-	4.90	0.1929	87.0	132.0	4.90
A9415.0	-	5.00	0.1969	87.0	132.0	5.00
A9415.1	-	5.10	0.2008	87.0	132.0	5.10
A94113/64	13/64	5.16	0.2031	92.0	152.0	5.16
A9415.2	-	5.20	0.2047	87.0	132.0	5.20
A9415.3	-	5.30	0.2087	87.0	132.0	5.30
A9415.4	-	5.40	0.2126	91.0	139.0	5.40
A9415.5	-	5.50	0.2165	91.0	139.0	5.50
A9417/32	7/32	5.56	0.2188	92.0	152.0	5.56
A9415.6	-	5.60	0.2205	91.0	139.0	5.60
A9415.7	-	5.70	0.2244	91.0	139.0	5.70
A9415.8	-	5.80	0.2283	91.0	139.0	5.80
A9415.9	-	5.90	0.2323	91.0	139.0	5.90
A94115/64	15/64	5.95	0.2344	95.0	156.0	5.95
A9416.0	-	6.00	0.2362	91.0	139.0	6.00
A9416.1	-	6.10	0.2402	97.0	148.0	6.10
A9416.2	-	6.20	0.2441	97.0	148.0	6.20
A9416.3	-	6.30	0.2480	97.0	148.0	6.30
A9411/4	1/4	6.35	0.2500	95.0	156.0	6.35
A9416.4	-	6.40	0.2520	97.0	148.0	6.40
A9416.5	-	6.50	0.2559	97.0	148.0	6.50



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9416.6	–	6.60	0.2598	97.0	148.0	6.60
A9416.7	–	6.70	0.2638	97.0	148.0	6.70
A94117/64	17/64	6.75	0.2656	98.0	159.0	6.75
A9416.8	–	6.80	0.2677	102.0	156.0	6.80
A9416.9	–	6.90	0.2717	102.0	156.0	6.90
A9417.0	–	7.00	0.2756	102.0	156.0	7.00
A9417.1	–	7.10	0.2795	102.0	156.0	7.10
A9419/32	9/32	7.14	0.2813	98.0	159.0	7.14
A9417.2	–	7.20	0.2835	102.0	156.0	7.20
A9417.3	–	7.30	0.2874	102.0	156.0	7.30
A9417.4	–	7.40	0.2913	102.0	156.0	7.40
A9417.5	–	7.50	0.2953	102.0	156.0	7.50
A94119/64	19/64	7.54	0.2969	102.0	162.0	7.54
A9417.6	–	7.60	0.2992	109.0	165.0	7.60
A9417.7	–	7.70	0.3031	109.0	165.0	7.70
A9417.8	–	7.80	0.3071	109.0	165.0	7.80
A9417.9	–	7.90	0.3110	109.0	165.0	7.90
A9415/16	5/16	7.94	0.3125	102.0	162.0	7.94
A9418.0	–	8.00	0.3150	109.0	165.0	8.00
A9418.1	–	8.10	0.3189	109.0	165.0	8.10
A9418.2	–	8.20	0.3228	109.0	165.0	8.20
A9418.3	–	8.30	0.3268	109.0	165.0	8.30
A94121/64	21/64	8.33	0.3281	105.0	165.0	8.33
A9418.4	–	8.40	0.3307	109.0	165.0	8.40
A9418.5	–	8.50	0.3346	109.0	165.0	8.50
A9418.6	–	8.60	0.3386	115.0	175.0	8.60
A9418.7	–	8.70	0.3425	115.0	175.0	8.70
A94111/32	11/32	8.73	0.3438	105.0	165.0	8.73
A9418.8	–	8.80	0.3465	115.0	175.0	8.80
A9418.9	–	8.90	0.3504	115.0	175.0	8.90
A9419.0	–	9.00	0.3543	115.0	175.0	9.00
A9419.1	–	9.10	0.3583	115.0	175.0	9.10
A94123/64	23/64	9.13	0.3594	108.0	171.0	9.13
A9419.2	–	9.20	0.3622	115.0	175.0	9.20
A9419.3	–	9.30	0.3661	115.0	175.0	9.30
A9419.4	–	9.40	0.3701	115.0	175.0	9.40
A9419.5	–	9.50	0.3740	115.0	175.0	9.50
A9413/8	3/8	9.52	0.3750	108.0	171.0	9.52

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9419.6	–	9.60	0.3780	121.0	184.0	9.60
A9419.7	–	9.70	0.3819	121.0	184.0	9.70
A9419.8	–	9.80	0.3858	121.0	184.0	9.80
A9419.9	–	9.90	0.3898	121.0	184.0	9.90
A94125/64	25/64	9.92	0.3906	111.0	178.0	9.92
A94110.0	–	10.00	0.3937	121.0	184.0	10.00
A94110.2	–	10.20	0.4016	121.0	184.0	10.20
A94110.3	–	10.30	0.4055	121.0	184.0	10.30
A94113/32	13/32	10.32	0.4063	111.0	178.0	10.32
A94110.5	–	10.50	0.4134	121.0	184.0	10.50
A94127/64	27/64	10.72	0.4219	117.0	184.0	10.72
A94111.0	–	11.00	0.4331	128.0	195.0	11.00
A9417/16	7/16	11.11	0.4375	117.0	184.0	11.11
A94111.2	–	11.20	0.4409	128.0	195.0	11.20
A94111.5	–	11.50	0.4528	128.0	195.0	11.50
A94129/64	29/64	11.51	0.4531	121.0	190.0	11.51
A94111.8	–	11.80	0.4646	128.0	195.0	11.80
A94115/32	15/32	11.91	0.4688	121.0	190.0	11.91
A94112.0	–	12.00	0.4724	134.0	205.0	12.00
A94112.2	–	12.20	0.4803	134.0	205.0	12.20
A94131/64	31/64	12.30	0.4844	121.0	197.0	12.30
A94112.5	–	12.50	0.4921	134.0	205.0	12.50
A9411/2	1/2	12.70	0.5000	121.0	197.0	12.70
A94113.0	–	13.00	0.5118	134.0	205.0	13.00
A94133/64	33/64	13.10	0.5156	121.0	203.0	13.10
A94113.5	–	13.50	0.5315	140.0	214.0	13.50
A94135/64	35/64	13.89	0.5469	124.0	210.0	13.89
A94114.0	–	14.00	0.5512	140.0	214.0	14.00
A9419/16	9/16	14.29	0.5625	124.0	210.0	14.29
A94114.5	–	14.50	0.5709	144.0	220.0	14.50
A94137/64	37/64	14.68	0.5781	124.0	222.0	14.68
A94115.0	–	15.00	0.5906	144.0	220.0	15.00
A94119/32	19/32	15.08	0.5938	124.0	222.0	15.08
A94139/64	39/64	15.48	0.6094	124.0	222.0	15.48
A94115.5	–	15.50	0.6102	149.0	227.0	15.50
A9415/8	5/8	15.88	0.6250	124.0	222.0	15.88
A94116.0	–	16.00	0.6299	149.0	227.0	16.00

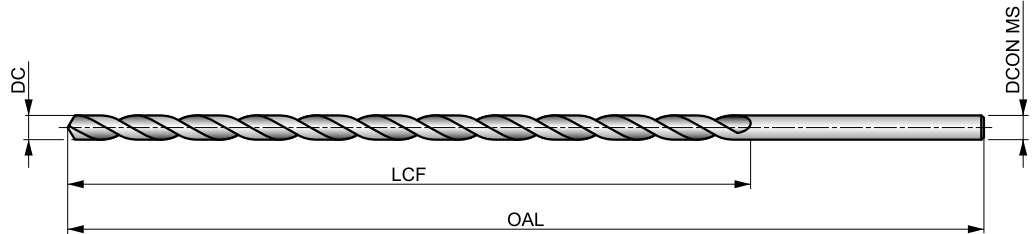


# A125



## Foret série extra-longue en HSS, finition avec traitement vapeur

Foret avec finition traitement vapeur recommandé pour les trous très profonds ou difficilement accessibles. Pointe conventionnelle à 118° offrant de la résistance et permettant d'économiser sur les affûtages simples. Convient à de nombreux matériaux. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. Moins adapté au perçage à la main.



HSS	BS 328	10×D
118°	ST	
λ20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 21 E	<b>P1.2</b> ■ 24 E	<b>P1.3</b> ■ 25 E	<b>P2.1</b> ■ 18 E	<b>P2.2</b> ■ 16 C	<b>P2.3</b> ■ 14 A	<b>P3.1</b> ■ 9 C	<b>P3.2</b> ■ 7 C	<b>P3.3</b> ■ 6 A	<b>P4.1</b> ■ 5 C	<b>P4.2</b> ■ 4 A	<b>P4.3</b> ■ 4 A	<b>M1.1</b> ■ 12 C	<b>M1.2</b> ■ 10 C
<b>M2.1</b> ■ 11 C	<b>M2.2</b> ■ 9 C	<b>M3.1</b> ■ 5 E	<b>M3.2</b> ■ 4 E	<b>M3.3</b> ■ 4 E	<b>M4.1</b> ■ 8 A	<b>K1.1</b> ■ 22 G	<b>K1.2</b> ■ 16 D	<b>K1.3</b> ■ 12 D	<b>K2.1</b> ■ 16 C	<b>K2.2</b> ■ 13 C	<b>K2.3</b> ■ 10 C	<b>K3.1</b> ■ 14 C	<b>K3.2</b> ■ 11 C
<b>K3.3</b> ■ 9 C	<b>K4.1</b> ■ 13 C	<b>K4.2</b> ■ 10 C	<b>K4.3</b> ■ 7 C	<b>K4.4</b> ■ 6 C	<b>K4.5</b> ■ 5 C	<b>K5.1</b> ■ 15 C	<b>K5.2</b> ■ 11 C	<b>K5.3</b> ■ 9 C	<b>N1.1</b> ■ 24 H	<b>N1.2</b> ■ 18 H	<b>N1.3</b> ■ 12 G	<b>N2.1</b> ■ 34 F	<b>N2.2</b> ■ 30 F
<b>N2.3</b> ■ 22 F	<b>N3.1</b> ■ 56 F	<b>N3.2</b> ■ 33 G	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 H	<b>N4.2</b> ■ 26 F	<b>N4.3</b> ■ 10 D	<b>S1.1</b> ■ 11 D	<b>S1.2</b> ■ 9 B	<b>S1.3</b> ■ 5 A	<b>S2.1</b> ■ 5 C	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 C	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 C	<b>S4.2</b> ■ 2 A												

DC ≤ 2.2mm; 5/64" Brillant.

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1251.4X160	-	1.40	0.0551	100.0	160.0	1.40
A1251.5X125	-	1.50	0.0591	80.0	125.0	1.50
A1251.5X160	-	1.50	0.0591	100.0	160.0	1.50
A1251/16X125	1/16	1.59	0.0625	80.0	125.0	1.59
A1251/16X160	1/16	1.59	0.0625	100.0	160.0	1.59
A1251.8X160	-	1.80	0.0709	100.0	160.0	1.80
A1255/64X125	5/64	1.98	0.0781	80.0	125.0	1.98
A1255/64X160	5/64	1.98	0.0781	100.0	160.0	1.98
A1252.0X125	-	2.00	0.0787	80.0	125.0	2.00
A1252.0X160	-	2.00	0.0787	100.0	160.0	2.00
A1252.2X160	-	2.20	0.0866	100.0	160.0	2.20
A1253/32X125	3/32	2.38	0.0938	80.0	125.0	2.38
A1253/32X160	3/32	2.38	0.0938	100.0	160.0	2.38
A1252.5X125	-	2.50	0.0984	80.0	125.0	2.50
A1252.5X160	-	2.50	0.0984	100.0	160.0	2.50
A1257/64X125	7/64	2.78	0.1094	80.0	125.0	2.78
A1257/64X160	7/64	2.78	0.1094	100.0	160.0	2.78
A1253.0X160	-	3.00	0.1181	100.0	160.0	3.00
A1253.0X200	-	3.00	0.1181	150.0	200.0	3.00
A1253.0X250	-	3.00	0.1181	200.0	250.0	3.00
A1251/8X160	1/8	3.18	0.1252	100.0	160.0	3.18
A1251/8X200	1/8	3.18	0.1252	150.0	200.0	3.18
A1251/8X250	1/8	3.18	0.1252	200.0	250.0	3.18
A1251/8X315	1/8	3.18	0.1252	250.0	310.0	3.18
A1253.3X160	-	3.30	0.1299	100.0	160.0	3.30
A1253.5X160	-	3.50	0.1378	100.0	160.0	3.50

Produit	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1253.5X200	-	3.50	0.1378	150.0	200.0	3.50
A1253.5X250	-	3.50	0.1378	200.0	250.0	3.50
A1259/64X160	9/64	3.57	0.1406	100.0	160.0	3.57
A1259/64X200	9/64	3.57	0.1406	150.0	200.0	3.57
A1259/64X315	9/64	3.57	0.1406	250.0	310.0	3.57
A1255/32X160	5/32	3.97	0.1563	100.0	160.0	3.97
A1255/32X200	5/32	3.97	0.1563	150.0	200.0	3.97
A1255/32X250	5/32	3.97	0.1563	200.0	250.0	3.97
A1255/32X315	5/32	3.97	0.1563	250.0	310.0	3.97
A1254.0X160	-	4.00	0.1575	100.0	160.0	4.00
A1254.0X200	-	4.00	0.1575	150.0	200.0	4.00
A1254.0X250	-	4.00	0.1575	200.0	250.0	4.00
A1254.0X315	-	4.00	0.1575	250.0	310.0	4.00
A12511/64X160	11/64	4.37	0.1719	100.0	160.0	4.37
A12511/64X200	11/64	4.37	0.1719	150.0	200.0	4.37
A12511/64X315	11/64	4.37	0.1719	250.0	310.0	4.37
A1254.5X160	-	4.50	0.1772	100.0	160.0	4.50
A1254.5X200	-	4.50	0.1772	150.0	200.0	4.50
A1254.5X250	-	4.50	0.1772	200.0	250.0	4.50
A1254.5X315	-	4.50	0.1772	250.0	310.0	4.50
A1253/16X160	3/16	4.76	0.1875	100.0	160.0	4.76
A1253/16X200	3/16	4.76	0.1875	150.0	200.0	4.76
A1253/16X250	3/16	4.76	0.1875	200.0	250.0	4.76
A1253/16X315	3/16	4.76	0.1875	250.0	310.0	4.76
A1253/16X400	3/16	4.76	0.1875	300.0	400.0	4.76
A1255.0X160	-	5.00	0.1969	100.0	160.0	5.00



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1255.0X200	–	5.00	0.1969	150.0	200.0	5.00
A1255.0X250	–	5.00	0.1969	200.0	250.0	5.00
A1255.0X315	–	5.00	0.1969	250.0	310.0	5.00
A1255.0X400	–	5.00	0.1969	300.0	400.0	5.00
A12513/64X200	13/64	5.16	0.2031	150.0	200.0	5.16
A12513/64X250	13/64	5.16	0.2031	200.0	250.0	5.16
A12513/64X315	13/64	5.16	0.2031	250.0	310.0	5.16
A1255.5X200	–	5.50	0.2165	150.0	200.0	5.50
A1255.5X250	–	5.50	0.2165	200.0	250.0	5.50
A1255.5X315	–	5.50	0.2165	250.0	310.0	5.50
A1257/32X200	7/32	5.56	0.2188	150.0	200.0	5.56
A1257/32X250	7/32	5.56	0.2188	200.0	250.0	5.56
A1257/32X315	7/32	5.56	0.2188	250.0	310.0	5.56
A12515/64X200	15/64	5.95	0.2344	150.0	200.0	5.95
A12515/64X250	15/64	5.95	0.2344	200.0	250.0	5.95
A12515/64X315	15/64	5.95	0.2344	250.0	310.0	5.95
A1256.0X200	–	6.00	0.2362	150.0	200.0	6.00
A1256.0X250	–	6.00	0.2362	200.0	250.0	6.00
A1256.0X315	–	6.00	0.2362	250.0	310.0	6.00
A1256.0X400	–	6.00	0.2362	300.0	400.0	6.00
A1251/4X200	1/4	6.35	0.2500	150.0	200.0	6.35
A1251/4X250	1/4	6.35	0.2500	200.0	250.0	6.35
A1251/4X315	1/4	6.35	0.2500	250.0	310.0	6.35
A1251/4X400	1/4	6.35	0.2500	300.0	400.0	6.35
A1251/4X500	1/4	6.35	0.2500	400.0	460.0	6.35
A1256.5X200	–	6.50	0.2559	150.0	200.0	6.50
A1256.5X250	–	6.50	0.2559	200.0	250.0	6.50
A1256.5X315	–	6.50	0.2559	250.0	310.0	6.50
A12517/64X200	17/64	6.75	0.2656	150.0	200.0	6.75
A12517/64X250	17/64	6.75	0.2656	200.0	250.0	6.75
A12517/64X315	17/64	6.75	0.2656	250.0	310.0	6.75
A12517/64X500	17/64	6.75	0.2656	400.0	460.0	6.75
A1257.0X200	–	7.00	0.2756	150.0	200.0	7.00
A1257.0X250	–	7.00	0.2756	200.0	250.0	7.00
A1257.0X315	–	7.00	0.2756	250.0	310.0	7.00
A1259/32X200	9/32	7.14	0.2813	150.0	200.0	7.14
A1259/32X250	9/32	7.14	0.2813	200.0	250.0	7.14
A1259/32X315	9/32	7.14	0.2813	250.0	310.0	7.14
A1259/32X500	9/32	7.14	0.2813	400.0	460.0	7.14
A1257.5X200	–	7.50	0.2953	150.0	200.0	7.50
A1257.5X250	–	7.50	0.2953	200.0	250.0	7.50
A1257.5X315	–	7.50	0.2953	250.0	310.0	7.50
A12519/64X315	19/64	7.54	0.2969	250.0	310.0	7.54
A12519/64X500	19/64	7.54	0.2969	400.0	460.0	7.54
A1255/16X200	5/16	7.94	0.3125	150.0	200.0	7.94
A1255/16X250	5/16	7.94	0.3125	200.0	250.0	7.94
A1255/16X315	5/16	7.94	0.3125	250.0	310.0	7.94
A1255/16X400	5/16	7.94	0.3125	300.0	400.0	7.94
A1255/16X500	5/16	7.94	0.3125	400.0	460.0	7.94
A1258.0X250	–	8.00	0.3150	200.0	250.0	8.00
A1258.0X315	–	8.00	0.3150	250.0	310.0	8.00
A1258.0X400	–	8.00	0.3150	300.0	400.0	8.00
A12521/64X315	21/64	8.33	0.3281	250.0	310.0	8.33
A12521/64X500	21/64	8.33	0.3281	400.0	460.0	8.33
A1258.5X250	–	8.50	0.3346	200.0	250.0	8.50
A1258.5X315	–	8.50	0.3346	250.0	310.0	8.50
A12511/32X250	11/32	8.73	0.3438	200.0	250.0	8.73
A12511/32X315	11/32	8.73	0.3438	250.0	310.0	8.73
A12511/32X400	11/32	8.73	0.3438	300.0	400.0	8.73
A12511/32X500	11/32	8.73	0.3438	400.0	460.0	8.73
A1259.0X250	–	9.00	0.3543	200.0	250.0	9.00
A1259.0X315	–	9.00	0.3543	250.0	310.0	9.00
A1259.0X400	–	9.00	0.3543	300.0	400.0	9.00
A12523/64X315	23/64	9.13	0.3594	250.0	310.0	9.13
A12523/64X500	23/64	9.13	0.3594	400.0	460.0	9.13
A1259.5X250	–	9.50	0.3740	200.0	250.0	9.50
A1259.5X315	–	9.50	0.3740	250.0	310.0	9.50
A1253/8X250	3/8	9.52	0.3750	200.0	250.0	9.52
A1253/8X315	3/8	9.52	0.3750	250.0	310.0	9.52
A1253/8X400	3/8	9.52	0.3750	300.0	400.0	9.52

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1253/8X500	3/8	9.52	0.3750	400.0	460.0	9.52
A12525/64X315	25/64	9.92	0.3906	250.0	310.0	9.92
A12525/64X500	25/64	9.92	0.3906	400.0	460.0	9.92
A12510.0X250	–	10.00	0.3937	200.0	250.0	10.00
A12510.0X315	–	10.00	0.3937	250.0	310.0	10.00
A12510.0X400	–	10.00	0.3937	300.0	400.0	10.00
A12513/32X250	13/32	10.32	0.4063	200.0	250.0	10.32
A12513/32X315	13/32	10.32	0.4063	250.0	310.0	10.32
A12513/32X500	13/32	10.32	0.4063	400.0	460.0	10.32
A12510.5X250	–	10.50	0.4134	200.0	250.0	10.50
A12510.5X315	–	10.50	0.4134	250.0	310.0	10.50
A12510.5X400	–	10.50	0.4134	300.0	400.0	10.50
A12527/64X315	27/64	10.72	0.4219	250.0	310.0	10.72
A12511.0X250	–	11.00	0.4331	200.0	250.0	11.00
A12511.0X315	–	11.00	0.4331	250.0	310.0	11.00
A12511.0X400	–	11.00	0.4331	300.0	400.0	11.00
A1257/16X250	7/16	11.11	0.4375	200.0	250.0	11.11
A1257/16X315	7/16	11.11	0.4375	250.0	310.0	11.11
A1257/16X400	7/16	11.11	0.4375	300.0	400.0	11.11
A1257/16X500	7/16	11.11	0.4375	400.0	460.0	11.11
A12529/64X315	29/64	11.51	0.4531	250.0	310.0	11.51
A12529/64X500	29/64	11.51	0.4531	400.0	460.0	11.51
A12515/32X250	15/32	11.91	0.4688	200.0	250.0	11.91
A12515/32X315	15/32	11.91	0.4688	250.0	310.0	11.91
A12515/32X500	15/32	11.91	0.4688	400.0	460.0	11.91
A12512.0X250	–	12.00	0.4724	200.0	250.0	12.00
A12512.0X315	–	12.00	0.4724	250.0	310.0	12.00
A12512.0X400	–	12.00	0.4724	300.0	400.0	12.00
A12531/64X315	31/64	12.30	0.4844	250.0	310.0	12.30
A12531/64X500	31/64	12.30	0.4844	400.0	460.0	12.30
A1251/2X250	1/2	12.70	0.5000	200.0	250.0	12.70
A1251/2X315	1/2	12.70	0.5000	250.0	310.0	12.70
A1251/2X400	1/2	12.70	0.5000	300.0	400.0	12.70
A1251/2X500	1/2	12.70	0.5000	400.0	460.0	12.70
A12513.0X315	–	13.00	0.5118	250.0	310.0	13.00
A12513.0X400	–	13.00	0.5118	300.0	400.0	13.00
A12533/64X315	33/64	13.10	0.5156	250.0	310.0	13.10
A12533/64X500	33/64	13.10	0.5156	400.0	460.0	13.10
A12517/32X315	17/32	13.49	0.5313	250.0	310.0	13.49
A12517/32X500	17/32	13.49	0.5313	400.0	460.0	13.49
A12535/64X315	35/64	13.89	0.5469	250.0	310.0	13.89
A12535/64X500	35/64	13.89	0.5469	400.0	460.0	13.89
A12514.0X315	–	14.00	0.5512	250.0	310.0	14.00
A12514.0X400	–	14.00	0.5512	300.0	400.0	14.00
A1259/16X315	9/16	14.29	0.5625	250.0	310.0	14.29
A1259/16X500	9/16	14.29	0.5625	400.0	460.0	14.29
A12537/64X315	37/64	14.68	0.5781	250.0	310.0	14.68
A12519/32X315	19/32	15.08	0.5938	250.0	310.0	15.08
A12519/32X500	19/32	15.08	0.5938	400.0	460.0	15.08
A12539/64X315	39/64	15.48	0.6094	250.0	310.0	15.48
A12539/64X500	39/64	15.48	0.6094	400.0	460.0	15.48
A1255/8X315	5/8	15.88	0.6250	250.0	310.0	15.88
A1255/8X500	5/8	15.88	0.6250	400.0	460.0	15.88
A12521/32X315	21/32	16.67	0.6563	250.0	310.0	16.67
A12521/32X500	21/32	16.67	0.6563	400.0	460.0	16.67
A12511/16X315	11/16	17.46	0.6875	250.0	310.0	17.46
A12511/16X500	11/16	17.46	0.6875	400.0	460.0	17.46
A12523/32X315	23/32	18.26	0.7188	250.0	310.0	18.26
A12523/32X500	23/32	18.26	0.7188	400.0	460.0	18.26
A1253/4X315	3/4	19.05	0.7500	250.0	310.0	19.05
A1253/4X500	3/4	19.05	0.7500	400.0	460.0	19.05
A12525/32X500	25/32	19.84	0.7813	400.0	460.0	19.84
A12513/16X500	13/16	20.64	0.8125	400.0	460.0	20.64
A1257/8X500	7/8	22.22	0.8750	400.0	460.0	22.22
A12515/16X500	15/16	23.81	0.9375	400.0	460.0	23.81
A1251X500	1"	25.40	1.0000	400.0	460.0	25.40





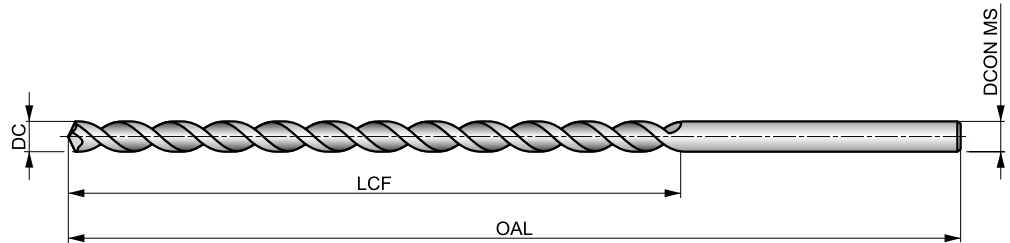
# A976



## Foret extra-long PFX en HSS-E (5% cobalt) (DIN 1869 série 1), finition brillante

Foret recommandé pour le perçage de trous très profonds ou pour les applications où une très longue portée est nécessaire. Les goujures paraboliques spécialement conçues éliminent le besoin de percer des trous profonds par petites étapes (débouillage). Pointe à 130°. Le centrage avec un foret PFX court 3xD est recommandé (pour garder la même tolérance sur DC). Convient pour le perçage de nombreux matériaux.

### PFX



HSS-E	DIN 1869-1	15×D
130°	Bright	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 C	<b>P1.2</b> ■ 33 C	<b>P1.3</b> ■ 34 C	<b>P2.1</b> ■ 25 C	<b>P2.2</b> ■ 22 C	<b>P2.3</b> ■ 19 A	<b>P3.1</b> ■ 18 C	<b>P3.2</b> ■ 14 C	<b>P3.3</b> ■ 12 A	<b>P4.1</b> ■ 11 C	<b>P4.2</b> ■ 9 A	<b>P4.3</b> ■ 7 A	<b>M1.1</b> ■ 16 B	<b>M1.2</b> ■ 14 B
<b>M2.1</b> ■ 15 B	<b>M2.2</b> ■ 12 B	<b>M3.1</b> ■ 8 C	<b>M3.2</b> ■ 7 C	<b>M3.3</b> ■ 6 C	<b>M4.1</b> ■ 8 A	<b>K2.1</b> ■ 20 C	<b>K2.2</b> ■ 16 C	<b>K2.3</b> ■ 13 A	<b>K3.1</b> ■ 17 C	<b>K3.2</b> ■ 13 C	<b>K3.3</b> ■ 11 A	<b>K4.1</b> ■ 16 C	<b>K4.2</b> ■ 12 C
<b>K4.3</b> ■ 9 A	<b>K4.4</b> ■ 8 A	<b>K4.5</b> ■ 6 A	<b>K5.1</b> ■ 18 C	<b>K5.2</b> ■ 14 C	<b>K5.3</b> ■ 11 A	<b>N3.1</b> ■ 30 D	<b>S1.1</b> ■ 15 C	<b>S1.2</b> ■ 11 A	<b>S1.3</b> ■ 5 A				

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9761.5	—	1.50	0.0591	75.0	115.0	1.50
A9762.0X125	—	2.00	0.0787	85.0	125.0	2.00
A9762.1X125	—	2.10	0.0827	85.0	125.0	2.10
A9762.2X135	—	2.20	0.0866	90.0	135.0	2.20
A9762.3X135	—	2.30	0.0906	90.0	135.0	2.30
A9762.4X140	—	2.40	0.0945	95.0	140.0	2.40
A9762.5X140	—	2.50	0.0984	95.0	140.0	2.50
A9762.6X140	—	2.60	0.1024	95.0	140.0	2.60
A9762.7X150	—	2.70	0.1063	100.0	150.0	2.70
A9762.8X150	—	2.80	0.1102	100.0	150.0	2.80
A9762.9X150	—	2.90	0.1142	100.0	150.0	2.90
A9763.0X150	—	3.00	0.1181	100.0	150.0	3.00
A9763.1X155	—	3.10	0.1220	105.0	155.0	3.10
A9761/8	1/8	3.18	0.1252	105.0	155.0	3.18
A9763.2X155	—	3.20	0.1260	105.0	155.0	3.20
A9763.3X155	—	3.30	0.1299	105.0	155.0	3.30
A9763.4X165	—	3.40	0.1339	115.0	165.0	3.40
A9763.5X165	—	3.50	0.1378	115.0	165.0	3.50
A9763.6X165	—	3.60	0.1417	115.0	165.0	3.60
A9763.7X165	—	3.70	0.1457	115.0	165.0	3.70
A9763.8X175	—	3.80	0.1496	120.0	175.0	3.80
A9763.9X175	—	3.90	0.1535	120.0	175.0	3.90
A9765/32	5/32	3.97	0.1563	120.0	175.0	3.97
A9764.0X175	—	4.00	0.1575	120.0	175.0	4.00
A9764.1X175	—	4.10	0.1614	120.0	175.0	4.10
A9764.2X175	—	4.20	0.1654	120.0	175.0	4.20
A9764.3X185	—	4.30	0.1693	125.0	185.0	4.30
A9764.4X185	—	4.40	0.1732	125.0	185.0	4.40

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9764.5X185	—	4.50	0.1772	125.0	185.0	4.50
A9764.6X185	—	4.60	0.1811	125.0	185.0	4.60
A9764.7X185	—	4.70	0.1850	125.0	185.0	4.70
A9763/16	3/16	4.76	0.1875	135.0	195.0	4.76
A9764.8X195	—	4.80	0.1890	135.0	195.0	4.80
A9764.9X195	—	4.90	0.1929	135.0	195.0	4.90
A9765.0X195	—	5.00	0.1969	135.0	195.0	5.00
A9765.1X195	—	5.10	0.2008	135.0	195.0	5.10
A9765.2X195	—	5.20	0.2047	135.0	195.0	5.20
A9765.3X195	—	5.30	0.2087	135.0	195.0	5.30
A9765.4X205	—	5.40	0.2126	140.0	205.0	5.40
A9765.5X205	—	5.50	0.2165	140.0	205.0	5.50
A9765.6X205	—	5.60	0.2205	140.0	205.0	5.60
A9765.7X205	—	5.70	0.2244	140.0	205.0	5.70
A9765.8X205	—	5.80	0.2283	140.0	205.0	5.80
A9765.9X205	—	5.90	0.2323	140.0	205.0	5.90
A9766.0X205	—	6.00	0.2362	140.0	205.0	6.00
A9766.1X215	—	6.10	0.2402	150.0	215.0	6.10
A9766.2X215	—	6.20	0.2441	150.0	215.0	6.20
A9766.3X215	—	6.30	0.2480	150.0	215.0	6.30
A9761/4	1/4	6.35	0.2500	150.0	215.0	6.35
A9766.4X215	—	6.40	0.2520	150.0	215.0	6.40
A9766.5X215	—	6.50	0.2559	150.0	215.0	6.50
A9766.6X215	—	6.60	0.2598	150.0	215.0	6.60
A9766.7X215	—	6.70	0.2638	150.0	215.0	6.70
A9766.8X225	—	6.80	0.2677	155.0	225.0	6.80
A9766.9X225	—	6.90	0.2717	155.0	225.0	6.90
A9767.0X225	—	7.00	0.2756	155.0	225.0	7.00



Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
<b>A9767.5X225</b>	–	7.50	0.2953	155.0	225.0	7.50
<b>A9765/16</b>	5/16	7.94	0.3125	165.0	240.0	7.94
<b>A9768.0X240</b>	–	8.00	0.3150	165.0	240.0	8.00
<b>A9768.5X240</b>	–	8.50	0.3346	165.0	240.0	8.50
<b>A97611/32</b>	11/32	8.73	0.3438	175.0	250.0	8.73
<b>A9769.0X250</b>	–	9.00	0.3543	175.0	250.0	9.00
<b>A9769.5X250</b>	–	9.50	0.3740	175.0	250.0	9.50
<b>A9763/8</b>	3/8	9.52	0.3750	185.0	265.0	9.52
<b>A97610.0X265</b>	–	10.00	0.3937	185.0	265.0	10.00

<sup>1)</sup> Standard Dormer.

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
<b>A97610.5</b>	–	10.50	0.4134	185.0	265.0	10.50
<b>A97611.0</b>	–	11.00	0.4331	195.0	280.0	11.00
<b>A9767/16</b>	7/16	11.11	0.4375	195.0	280.0	11.11
<b>A97611.5</b>	–	11.50	0.4528	195.0	280.0	11.50
<b>A97612.0</b>	–	12.00	0.4724	205.0	295.0	12.00
<b>A97612.5</b>	–	12.50	0.4921	205.0	295.0	12.50
<b>A9761/2</b>	1/2	12.70	0.5000	205.0	295.0	12.70
<b>A97613.0</b>	–	13.00	0.5118	205.0	295.0	13.00
<b>A97614.0<sup>1)</sup></b>	–	14.00	0.5512	215.0	310.0	14.00



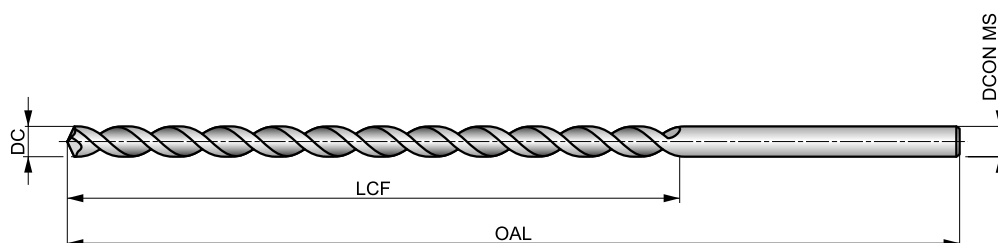
# A977



## Foret extra-long PFX en HSS-E (5% cobalt) (DIN 1869 série 2), finition brillante

Foret recommandé pour le perçage de trous très profonds et dans les applications où une très longue portée est nécessaire. Les goujures paraboliques spécialement conçues éliminent le besoin de percer des trous profonds par petites étapes (débouillage). Pointe à 130°. Le centrage avec un foret PFX court 3xD est recommandé (pour garder la même tolérance sur DC). Convient pour le perçage de nombreux matériaux.

### PFX



HSS-E	DIN 1869-2	20xD
130°	Bright	
$\lambda > 35^\circ$	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ▣29 B	<b>P1.2</b> ▣33 B	<b>P1.3</b> ▣34 B	<b>P2.1</b> ▣25 B	<b>P2.2</b> ▣22 B	<b>P2.3</b> ▣19 A	<b>P3.1</b> ▣18 B	<b>P3.2</b> ▣14 B	<b>P3.3</b> ▣12 A	<b>P4.1</b> ▣11 B	<b>P4.2</b> ▣9 A	<b>P4.3</b> ▣7 A	<b>M1.1</b> ▣16 B	<b>M1.2</b> ▣14 B
<b>M2.1</b> ▣15 B	<b>M2.2</b> ▣12 B	<b>M3.1</b> ▣8 B	<b>M3.2</b> ▣7 B	<b>M3.3</b> ▣6 B	<b>M4.1</b> ▣8 A	<b>K2.1</b> ▣20 B	<b>K2.2</b> ▣16 B	<b>K2.3</b> ▣13 A	<b>K3.1</b> ▣17 B	<b>K3.2</b> ▣13 B	<b>K3.3</b> ▣11 A	<b>K4.1</b> ▣16 B	<b>K4.2</b> ▣12 B
<b>K4.3</b> ▣9 A	<b>K4.4</b> ▣8 A	<b>K4.5</b> ▣6 A	<b>K5.1</b> ▣18 B	<b>K5.2</b> ▣14 B	<b>K5.3</b> ▣11 A	<b>N3.1</b> ▣30 C	<b>S1.1</b> ▣15 B	<b>S1.2</b> ▣11 A	<b>S1.3</b> ▣5 A				

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9771.5 <sup>1)</sup>	—	1.50	0.0591	100.0	150.0	1.50
A9771/16 <sup>1)</sup>	1/16	1.59	0.0625	100.0	150.0	1.59
A9772.0 <sup>1)</sup>	—	2.00	0.0787	110.0	160.0	2.00
A9773/32 <sup>1)</sup>	3/32	2.38	0.0938	115.0	170.0	2.38
A9773.0X190	—	3.00	0.1181	130.0	190.0	3.00
A9771/8	1/8	3.18	0.1250	135.0	200.0	3.18
A9773.5X210	—	3.50	0.1378	145.0	210.0	3.50
A9774.0X220	—	4.00	0.1575	150.0	220.0	4.00
A9774.5X235	—	4.50	0.1772	160.0	235.0	4.50
A9773/16	3/16	4.76	0.1875	170.0	245.0	4.76
A9775.0X245	—	5.00	0.1969	170.0	245.0	5.00
A9775.5X260	—	5.50	0.2165	180.0	260.0	5.50
A9776.0X260	—	6.00	0.2362	180.0	260.0	6.00
A9771/4	1/4	6.35	0.2500	190.0	275.0	6.35
A9776.5X275	—	6.50	0.2559	190.0	275.0	6.50

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A9777.0X290	—	7.00	0.2756	200.0	290.0	7.00
A9777.5X290	—	7.50	0.2953	200.0	290.0	7.50
A9778.0X305	—	8.00	0.3150	210.0	305.0	8.00
A9778.5X305	—	8.50	0.3346	210.0	305.0	8.50
A97711/32	11/32	8.73	0.3438	220.0	320.0	8.73
A9779.0X320	—	9.00	0.3543	220.0	320.0	9.00
A9779.5X320	—	9.50	0.3740	220.0	320.0	9.50
A97710.0X340	—	10.00	0.3937	235.0	340.0	10.00
A97710.5	—	10.50	0.4134	235.0	340.0	10.50
A97711.0	—	11.00	0.4331	250.0	365.0	11.00
A97711.5	—	11.50	0.4528	250.0	365.0	11.50
A97712.0	—	12.00	0.4724	260.0	375.0	12.00
A97712.5	—	12.50	0.4921	260.0	375.0	12.50
A97713.0	—	13.00	0.5118	260.0	375.0	13.00
A97714.0 <sup>1)</sup>	—	14.00	0.5512	270.0	390.0	14.00

<sup>1)</sup> Standard Dormer.



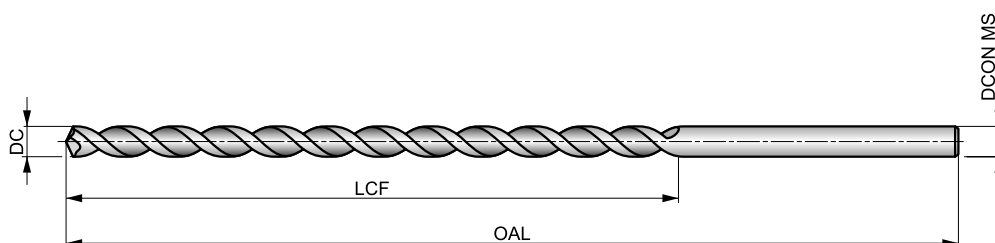
# A978



## Foret extra-long PFX en HSS-E (5% cobalt) (DIN 1869 série 3), finition brillante

Foret recommandé pour les trous extra profonds et pour les applications nécessitant une plus grande portée. Les goujures paraboliques spécialement conçues éliminent le besoin de percer des trous profonds par petites étapes (débourrage). Pointe à 130°. Le centrage avec un foret PFX court 3xD est recommandé (pour garder la même tolérance sur DC). Convient pour le perçage de nombreux matériaux.

### PFX



HSS-E	DIN 1869-3	25xD
130°	Bright	
$\lambda > 35^\circ$	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ▣ 29 A	<b>P1.2</b> ▣ 33 A	<b>P1.3</b> ▣ 34 A	<b>P2.1</b> ▣ 25 A	<b>P2.2</b> ▣ 22 A	<b>P2.3</b> ▣ 19 A	<b>P3.1</b> ▣ 18 A	<b>P3.2</b> ▣ 14 A	<b>P3.3</b> ▣ 12 A	<b>P4.1</b> ▣ 11 A	<b>P4.2</b> ▣ 9 A	<b>P4.3</b> ▣ 7 A	<b>M1.1</b> ▣ 16 A	<b>M1.2</b> ▣ 14 A
<b>M2.1</b> ▣ 15 A	<b>M2.2</b> ▣ 12 A	<b>M3.1</b> ▣ 8 A	<b>M3.2</b> ▣ 7 A	<b>M3.3</b> ▣ 6 A	<b>M4.1</b> ▣ 8 A	<b>K2.1</b> ▣ 20 A	<b>K2.2</b> ▣ 16 A	<b>K2.3</b> ▣ 13 A	<b>K3.1</b> ▣ 17 A	<b>K3.2</b> ▣ 13 A	<b>K3.3</b> ▣ 11 A	<b>K4.1</b> ▣ 16 A	<b>K4.2</b> ▣ 12 A
<b>K4.3</b> ▣ 9 A	<b>K4.4</b> ▣ 8 A	<b>K4.5</b> ▣ 6 A	<b>K5.1</b> ▣ 18 A	<b>K5.2</b> ▣ 14 A	<b>K5.3</b> ▣ 11 A	<b>N3.1</b> ▣ 30 B	<b>S1.1</b> ▣ 15 A	<b>S1.2</b> ▣ 11 A	<b>S1.3</b> ▣ 5 A				

Produit	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)			
A9783.0 <sup>1)</sup>	–	3.00	0.1181	160.0	240.0	3.00
A9783.5X265	–	3.50	0.1378	180.0	265.0	3.50
A9784.0X280	–	4.00	0.1575	190.0	280.0	4.00
A9784.5X295	–	4.50	0.1772	200.0	295.0	4.50
A9785.0X315	–	5.00	0.1969	210.0	315.0	5.00
A9785.5X330	–	5.50	0.2165	225.0	330.0	5.50
A9786.0X330	–	6.00	0.2362	225.0	330.0	6.00
A9781/4	1/4	6.35	0.2500	235.0	350.0	6.35
A9786.5X350	–	6.50	0.2559	235.0	350.0	6.50
A9787.0X370	–	7.00	0.2756	250.0	370.0	7.00
A9787.5X370	–	7.50	0.2953	250.0	370.0	7.50
A9788.0X390	–	8.00	0.3150	265.0	390.0	8.00
A9788.5X390	–	8.50	0.3346	265.0	390.0	8.50
A9789.0X410	–	9.00	0.3543	280.0	410.0	9.00
A9789.5X410	–	9.50	0.3740	280.0	410.0	9.50
A97810.0X430	–	10.00	0.3937	295.0	430.0	10.00

<sup>1)</sup> Standard Dormer.

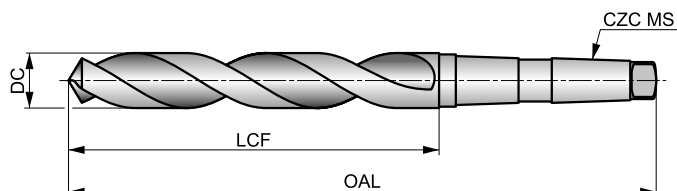


# A130



## Foret à queue cône morse en HSS, finition avec traitement vapeur

Foret polyvalent pour les grands diamètres - jusqu'à 50,80 mm (2 pouces). Sa queue conique offre une meilleure prise pour le tenir dans la machine. Sa pointe conventionnelle à 118° assure la résistance et facilite le réaffûtage. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. Convient pour le perçage de nombreux matériaux.



HSS	DIN 345	4xD
118°	ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 F	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 18 F	<b>P3.2</b> ■ 14 F	<b>P3.3</b> ■ 12 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 9 E	<b>P4.3</b> ■ 7 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 10 G	<b>M3.2</b> ■ 9 G	<b>M3.3</b> ■ 8 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 26 J	<b>N1.2</b> ■ 20 J	<b>N1.3</b> ■ 13 I	<b>N2.1</b> ■ 43 H	<b>N2.2</b> ■ 39 H
<b>N2.3</b> ■ 28 H	<b>N3.1</b> ■ 59 H	<b>N3.2</b> ■ 35 I	<b>N3.3</b> ■ 18 F	<b>N4.1</b> ■ 30 K	<b>N4.2</b> ■ 28 J	<b>N4.3</b> ■ 14 H	<b>S1.1</b> ■ 23 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 9 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 7 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 3 A												

DC > 14mm avec pointe amincie.

Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A1303.0	—	3.00	0.1181	33.0	114.0	MK 1
A1301/8	1/8	3.18	0.1252	36.0	117.0	MK 1
A1303.2	—	3.20	0.1260	36.0	117.0	MK 1
A1303.25	—	3.25	0.1280	36.0	117.0	MK 1
A1303.3	—	3.30	0.1299	36.0	117.0	MK 1
A1303.5	—	3.50	0.1378	39.0	120.0	MK 1
A1309/64	9/64	3.57	0.1406	39.0	120.0	MK 1
A1303.75	—	3.75	0.1476	39.0	120.0	MK 1
A1305/32	5/32	3.97	0.1563	43.0	124.0	MK 1
A1304.0	—	4.00	0.1575	43.0	124.0	MK 1
A1304.1	—	4.10	0.1614	43.0	124.0	MK 1
A1304.2	—	4.20	0.1654	43.0	124.0	MK 1
A1304.25	—	4.25	0.1673	43.0	124.0	MK 1
A13011/64	11/64	4.37	0.1719	47.0	128.0	MK 1
A1304.5	—	4.50	0.1772	47.0	128.0	MK 1
A1304.75	—	4.75	0.1870	52.0	128.0	MK 1
A1303/16	3/16	4.76	0.1875	52.0	133.0	MK 1
A1304.8	—	4.80	0.1890	52.0	133.0	MK 1
A1304.9	—	4.90	0.1929	52.0	133.0	MK 1
A1305.0	—	5.00	0.1969	52.0	133.0	MK 1
A1305.1	—	5.10	0.2008	52.0	133.0	MK 1
A13013/64	13/64	5.16	0.2031	52.0	133.0	MK 1
A1305.2	—	5.20	0.2047	52.0	133.0	MK 1



Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A1305.25	–	5.25	0.2067	52.0	133.0	MK 1
A1305.4	–	5.40	0.2126	57.0	138.0	MK 1
A1305.5	–	5.50	0.2165	57.0	138.0	MK 1
A1307/32	7/32	5.56	0.2188	57.0	138.0	MK 1
A1305.7	–	5.70	0.2244	57.0	138.0	MK 1
A1305.75	–	5.75	0.2264	57.0	138.0	MK 1
A1305.8	–	5.80	0.2283	57.0	138.0	MK 1
A1305.9	–	5.90	0.2323	57.0	138.0	MK 1
A13015/64	15/64	5.95	0.2344	57.0	138.0	MK 1
A1306.0	–	6.00	0.2362	57.0	138.0	MK 1
A1306.1	–	6.10	0.2402	63.0	144.0	MK 1
A1306.2	–	6.20	0.2441	63.0	144.0	MK 1
A1306.25	–	6.25	0.2461	63.0	144.0	MK 1
A1306.3	–	6.30	0.2480	63.0	144.0	MK 1
A1301/4	1/4	6.35	0.2500	63.0	144.0	MK 1
A1306.4	–	6.40	0.2520	63.0	144.0	MK 1
A1306.5	–	6.50	0.2559	63.0	144.0	MK 1
A1306.6	–	6.60	0.2598	63.0	144.0	MK 1
A1306.7	–	6.70	0.2638	63.0	144.0	MK 1
A13017/64	17/64	6.75	0.2656	69.0	150.0	MK 1
A1306.75	–	6.75	0.2657	69.0	150.0	MK 1
A1306.8	–	6.80	0.2677	69.0	150.0	MK 1
A1306.9	–	6.90	0.2717	69.0	150.0	MK 1
A1307.0	–	7.00	0.2756	69.0	150.0	MK 1
A1309/32	9/32	7.14	0.2813	69.0	150.0	MK 1
A1307.2	–	7.20	0.2835	69.0	150.0	MK 1
A1307.25	–	7.25	0.2854	69.0	150.0	MK 1
A1307.3	–	7.30	0.2874	69.0	150.0	MK 1
A1307.4	–	7.40	0.2913	69.0	150.0	MK 1
A1307.5	–	7.50	0.2953	69.0	150.0	MK 1
A13019/64	19/64	7.54	0.2969	75.0	156.0	MK 1
A1307.7	–	7.70	0.3031	75.0	156.0	MK 1
A1307.75	–	7.75	0.3051	75.0	156.0	MK 1
A1307.8	–	7.80	0.3071	75.0	156.0	MK 1
A1307.9	–	7.90	0.3110	75.0	156.0	MK 1
A1305/16	5/16	7.94	0.3125	75.0	156.0	MK 1
A1308.0	–	8.00	0.3150	75.0	156.0	MK 1
A1308.1	–	8.10	0.3189	75.0	156.0	MK 1
A1308.2	–	8.20	0.3228	75.0	156.0	MK 1
A1308.25	–	8.25	0.3248	75.0	156.0	MK 1
A1308.3	–	8.30	0.3268	75.0	156.0	MK 1
A13021/64	21/64	8.33	0.3281	75.0	156.0	MK 1
A1308.4	–	8.40	0.3307	75.0	156.0	MK 1
A1308.5	–	8.50	0.3346	75.0	156.0	MK 1
A1308.6	–	8.60	0.3386	81.0	162.0	MK 1
A1308.7	–	8.70	0.3425	81.0	162.0	MK 1
A13011/32	11/32	8.73	0.3438	81.0	162.0	MK 1
A1308.75	–	8.75	0.3445	81.0	162.0	MK 1
A1308.8	–	8.80	0.3465	81.0	162.0	MK 1
A1308.9	–	8.90	0.3504	81.0	162.0	MK 1
A1309.0	–	9.00	0.3543	81.0	162.0	MK 1
A1309.1	–	9.10	0.3583	81.0	162.0	MK 1
A13023/64	23/64	9.13	0.3594	81.0	162.0	MK 1
A1309.2	–	9.20	0.3622	81.0	162.0	MK 1
A1309.25	–	9.25	0.3642	81.0	162.0	MK 1
A1309.3	–	9.30	0.3661	81.0	162.0	MK 1
A1309.5	–	9.50	0.3740	81.0	162.0	MK 1
A1303/8	3/8	9.52	0.3750	87.0	168.0	MK 1
A1309.6	–	9.60	0.3780	87.0	168.0	MK 1
A1309.7	–	9.70	0.3819	87.0	168.0	MK 1
A1309.75	–	9.75	0.3839	87.0	168.0	MK 1
A1309.8	–	9.80	0.3858	87.0	168.0	MK 1



Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A1309.9	–	9.90	0.3898	87.0	168.0	MK 1
A13025/64	25/64	9.92	0.3906	87.0	168.0	MK 1
A13010.0	–	10.00	0.3937	87.0	168.0	MK 1
A13010.1	–	10.10	0.3976	87.0	168.0	MK 1
A13010.2	–	10.20	0.4016	87.0	168.0	MK 1
A13010.25	–	10.25	0.4035	87.0	168.0	MK 1
A13010.3	–	10.30	0.4055	87.0	168.0	MK 1
A13013/32	13/32	10.32	0.4063	87.0	168.0	MK 1
A13010.5	–	10.50	0.4134	87.0	168.0	MK 1
A13027/64	27/64	10.72	0.4219	94.0	175.0	MK 1
A13010.75	–	10.75	0.4232	94.0	175.0	MK 1
A13010.8	–	10.80	0.4252	94.0	175.0	MK 1
A13010.9	–	10.90	0.4291	94.0	175.0	MK 1
A13011.0	–	11.00	0.4331	94.0	175.0	MK 1
A13011.1	–	11.10	0.4370	94.0	175.0	MK 1
A1307/16	7/16	11.11	0.4375	94.0	175.0	MK 1
A13011.2	–	11.20	0.4409	94.0	175.0	MK 1
A13011.25	–	11.25	0.4429	94.0	175.0	MK 1
A13011.3	–	11.30	0.4449	94.0	175.0	MK 1
A13011.4	–	11.40	0.4488	94.0	175.0	MK 1
A13011.5	–	11.50	0.4528	94.0	175.0	MK 1
A13029/64	29/64	11.51	0.4531	94.0	175.0	MK 1
A13011.6	–	11.60	0.4567	94.0	175.0	MK 1
A13011.7	–	11.70	0.4606	94.0	175.0	MK 1
A13011.75	–	11.75	0.4626	94.0	175.0	MK 1
A13011.8	–	11.80	0.4646	94.0	175.0	MK 1
A13011.9	–	11.90	0.4685	101.0	182.0	MK 1
A13015/32	15/32	11.91	0.4688	101.0	182.0	MK 1
A13012.0	–	12.00	0.4724	101.0	182.0	MK 1
A13012.1	–	12.10	0.4764	101.0	182.0	MK 1
A13012.2	–	12.20	0.4803	101.0	182.0	MK 1
A13012.25	–	12.25	0.4823	101.0	182.0	MK 1
A13031/64	31/64	12.30	0.4844	101.0	182.0	MK 1
A13012.3	–	12.30	0.4843	101.0	182.0	MK 1
A13012.4	–	12.40	0.4882	101.0	182.0	MK 1
A13012.5	–	12.50	0.4921	101.0	182.0	MK 1
A13012.6	–	12.60	0.4961	101.0	182.0	MK 1
A13012.7	–	12.70	0.5000	101.0	182.0	MK 1
A1301/2	1/2	12.70	0.5000	101.0	182.0	MK 1
A13012.75	–	12.75	0.5020	101.0	182.0	MK 1
A13012.8	–	12.80	0.5039	101.0	182.0	MK 1
A13012.9	–	12.90	0.5079	101.0	182.0	MK 1
A13013.0	–	13.00	0.5118	101.0	182.0	MK 1
A13033/64	33/64	13.10	0.5156	101.0	182.0	MK 1
A13013.2	–	13.20	0.5197	101.0	182.0	MK 1
A13013.25	–	13.25	0.5217	108.0	189.0	MK 1
A13017/32	17/32	13.49	0.5313	108.0	189.0	MK 1
A13013.5	–	13.50	0.5315	108.0	189.0	MK 1
A13013.6	–	13.60	0.5354	108.0	189.0	MK 1
A13013.7	–	13.70	0.5394	108.0	189.0	MK 1
A13013.75	–	13.75	0.5413	108.0	189.0	MK 1
A13013.8	–	13.80	0.5433	108.0	189.0	MK 1
A13035/64	35/64	13.89	0.5469	108.0	189.0	MK 1
A13013.9	–	13.90	0.5472	108.0	189.0	MK 1
A13014.0	–	14.00	0.5512	108.0	189.0	MK 1
A13014.1	–	14.10	0.5551	114.0	212.0	MK 2
A13014.2	–	14.20	0.5591	114.0	212.0	MK 2
A13014.25	–	14.25	0.5610	114.0	212.0	MK 2
A1309/16	9/16	14.29	0.5625	114.0	212.0	MK 2
A13014.3	–	14.30	0.5630	114.0	212.0	MK 2
A13014.4	–	14.40	0.5669	114.0	212.0	MK 2
A13014.5	–	14.50	0.5709	114.0	212.0	MK 2



Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A13014.6	–	14.60	0.5748	114.0	212.0	MK 2
A13037/64	37/64	14.68	0.5781	114.0	212.0	MK 2
A13014.7	–	14.70	0.5787	114.0	212.0	MK 2
A13014.75	–	14.75	0.5807	114.0	212.0	MK 2
A13014.8	–	14.80	0.5827	114.0	212.0	MK 2
A13014.9	–	14.90	0.5866	114.0	212.0	MK 2
A13015.0	–	15.00	0.5906	114.0	212.0	MK 2
A13019/32	19/32	15.08	0.5938	120.0	218.0	MK 2
A13015.1	–	15.10	0.5945	120.0	218.0	MK 2
A13015.2	–	15.20	0.5984	120.0	218.0	MK 2
A13015.25	–	15.25	0.6004	120.0	218.0	MK 2
A13039/64	39/64	15.48	0.6094	120.0	218.0	MK 2
A13015.5	–	15.50	0.6102	120.0	218.0	MK 2
A13015.7	–	15.70	0.6181	120.0	218.0	MK 2
A13015.75	–	15.75	0.6201	120.0	218.0	MK 2
A13015.8	–	15.80	0.6220	120.0	218.0	MK 2
A1305/8	5/8	15.88	0.6250	120.0	218.0	MK 2
A13015.9	–	15.90	0.6260	120.0	218.0	MK 2
A13016.0	–	16.00	0.6299	120.0	218.0	MK 2
A13016.1	–	16.10	0.6339	125.0	223.0	MK 2
A13016.2	–	16.20	0.6378	125.0	223.0	MK 2
A13016.25	–	16.25	0.6398	125.0	223.0	MK 2
A13041/64	41/64	16.27	0.6406	125.0	223.0	MK 2
A13016.5	–	16.50	0.6496	125.0	223.0	MK 2
A13021/32	21/32	16.67	0.6563	125.0	223.0	MK 2
A13016.75	–	16.75	0.6594	125.0	223.0	MK 2
A13017.0	–	17.00	0.6693	125.0	223.0	MK 2
A13043/64	43/64	17.07	0.6719	130.0	228.0	MK 2
A13017.25	–	17.25	0.6791	130.0	228.0	MK 2
A13011/16	11/16	17.46	0.6875	130.0	228.0	MK 2
A13017.5	–	17.50	0.6890	130.0	228.0	MK 2
A13017.75	–	17.75	0.6988	130.0	228.0	MK 2
A13045/64	45/64	17.86	0.7031	130.0	228.0	MK 2
A13018.0	–	18.00	0.7087	130.0	228.0	MK 2
A13018.25	–	18.25	0.7185	135.0	233.0	MK 2
A13023/32	23/32	18.26	0.7188	135.0	233.0	MK 2
A13018.5	–	18.50	0.7283	135.0	233.0	MK 2
A13047/64	47/64	18.65	0.7344	135.0	233.0	MK 2
A13018.75	–	18.75	0.7382	135.0	233.0	MK 2
A13019.0	–	19.00	0.7480	135.0	233.0	MK 2
A1303/4	3/4	19.05	0.7500	140.0	238.0	MK 2
A13019.25	–	19.25	0.7579	140.0	238.0	MK 2
A13049/64	49/64	19.45	0.7656	140.0	238.0	MK 2
A13019.5	–	19.50	0.7677	140.0	238.0	MK 2
A13019.75	–	19.75	0.7776	140.0	238.0	MK 2
A13025/32	25/32	19.84	0.7813	140.0	238.0	MK 2
A13020.0	–	20.00	0.7874	140.0	238.0	MK 2
A13051/64	51/64	20.24	0.7969	145.0	243.0	MK 2
A13020.25	–	20.25	0.7972	145.0	243.0	MK 2
A13020.4	–	20.40	0.8031	145.0	243.0	MK 2
A13020.5	–	20.50	0.8071	145.0	243.0	MK 2
A13013/16	13/16	20.64	0.8125	145.0	243.0	MK 2
A13020.75	–	20.75	0.8169	145.0	243.0	MK 2
A13021.0	–	21.00	0.8268	145.0	243.0	MK 2
A13053/64	53/64	21.03	0.8281	145.0	243.0	MK 2
A13021.25	–	21.25	0.8366	150.0	248.0	MK 2
A13027/32	27/32	21.43	0.8437	150.0	248.0	MK 2
A13021.5	–	21.50	0.8465	150.0	248.0	MK 2
A13021.75	–	21.75	0.8563	150.0	248.0	MK 2
A13055/64	55/64	21.83	0.8594	150.0	248.0	MK 2
A13022.0	–	22.00	0.8661	150.0	248.0	MK 2
A1307/8	7/8	22.22	0.8750	150.0	248.0	MK 2





Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A13022.25	–	22.25	0.8760	150.0	248.0	MK 2
A13022.5	–	22.50	0.8858	155.0	253.0	MK 2
A13057/64	57/64	22.62	0.8906	155.0	253.0	MK 2
A13022.75	–	22.75	0.8957	155.0	253.0	MK 2
A13023.0	–	23.00	0.9055	155.0	253.0	MK 2
A13029/32	29/32	23.02	0.9063	155.0	253.0	MK 2
A13023.25	–	23.25	0.9154	155.0	276.0	MK 3
A13059/64	59/64	23.42	0.9219	155.0	276.0	MK 3
A13023.5	–	23.50	0.9252	155.0	276.0	MK 3
A13023.75	–	23.75	0.9350	160.0	281.0	MK 3
A13015/16	15/16	23.81	0.9375	160.0	281.0	MK 3
A13024.0	–	24.00	0.9449	160.0	281.0	MK 3
A13061/64	61/64	24.21	0.9531	160.0	281.0	MK 3
A13024.25	–	24.25	0.9547	160.0	281.0	MK 3
A13024.5	–	24.50	0.9646	160.0	281.0	MK 3
A13031/32	31/32	24.61	0.9688	160.0	281.0	MK 3
A13024.75	–	24.75	0.9744	160.0	281.0	MK 3
A13025.0	–	25.00	0.9843	160.0	281.0	MK 3
A13063/64	63/64	25.00	0.9844	160.0	286.0	MK 3
A13025.25	–	25.25	0.9941	165.0	286.0	MK 3
A1301	1"	25.40	1.0000	165.0	286.0	MK 3
A13025.5	–	25.50	1.0039	165.0	286.0	MK 3
A13025.75	–	25.75	1.0138	165.0	286.0	MK 3
A13026.0	–	26.00	1.0236	165.0	286.0	MK 3
A13026.25	–	26.25	1.0335	165.0	286.0	MK 3
A13026.5	–	26.50	1.0433	165.0	286.0	MK 3
A13026.75	–	26.75	1.0531	170.0	291.0	MK 3
A1301.1/16	1.1/16	26.99	1.0625	170.0	291.0	MK 3
A13027.0	–	27.00	1.0630	170.0	291.0	MK 3
A13027.25	–	27.25	1.0728	170.0	291.0	MK 3
A13027.5	–	27.50	1.0827	170.0	291.0	MK 3
A13027.75	–	27.75	1.0925	170.0	291.0	MK 3
A13028.0	–	28.00	1.1024	170.0	291.0	MK 3
A13028.25	–	28.25	1.1122	175.0	296.0	MK 3
A13028.5	–	28.50	1.1220	175.0	296.0	MK 3
A1301.1/8	1.1/8	28.58	1.1250	175.0	296.0	MK 3
A13028.75	–	28.75	1.1319	175.0	296.0	MK 3
A13029.0	–	29.00	1.1417	175.0	296.0	MK 3
A13029.25	–	29.25	1.1516	175.0	296.0	MK 3
A1301.5/32	1.5/32	29.37	1.1563	175.0	296.0	MK 3
A13029.5	–	29.50	1.1614	175.0	296.0	MK 3
A13029.75	–	29.75	1.1713	175.0	296.0	MK 3
A13030.0	–	30.00	1.1811	175.0	296.0	MK 3
A1301.3/16	1.3/16	30.16	1.1875	180.0	301.0	MK 3
A13030.25	–	30.25	1.1909	180.0	301.0	MK 3
A13030.5	–	30.50	1.2008	180.0	301.0	MK 3
A13030.75	–	30.75	1.2106	180.0	301.0	MK 3
A1301.7/32	1.7/32	30.96	1.2188	180.0	301.0	MK 3
A13031.0	–	31.00	1.2205	180.0	301.0	MK 3
A13031.25	–	31.25	1.2303	180.0	301.0	MK 3
A13031.5	–	31.50	1.2402	180.0	301.0	MK 3
A13031.75	–	31.75	1.2500	185.0	306.0	MK 3
A1301.1/4	1.1/4	31.75	1.2500	185.0	306.0	MK 3
A13032.0	–	32.00	1.2598	185.0	334.0	MK 4
A13032.5	–	32.50	1.2795	185.0	334.0	MK 4
A1301.9/32	1.9/32	32.54	1.2813	185.0	334.0	MK 4
A13033.0	–	33.00	1.2992	185.0	334.0	MK 4
A1301.5/16	1.5/16	33.34	1.3125	185.0	334.0	MK 4
A13033.5	–	33.50	1.3189	185.0	334.0	MK 4
A13034.0	–	34.00	1.3386	190.0	339.0	MK 4
A1301.11/32	1.11/32	34.13	1.3438	190.0	339.0	MK 4
A13034.5	–	34.50	1.3583	190.0	339.0	MK 4



Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A1301.3/8	1.3/8	34.93	1.3750	190.0	339.0	MK 4
A13035.0	–	35.00	1.3780	190.0	339.0	MK 4
A13035.5	–	35.50	1.3976	190.0	339.0	MK 4
A1301.13/32	1.13/32	35.72	1.4063	195.0	344.0	MK 4
A13036.0	–	36.00	1.4173	195.0	344.0	MK 4
A13036.5	–	36.50	1.4370	195.0	344.0	MK 4
A1301.7/16	1.7/16	36.51	1.4375	195.0	344.0	MK 4
A13037.0	–	37.00	1.4567	195.0	344.0	MK 4
A13037.5	–	37.50	1.4764	195.0	344.0	MK 4
A13038.0	–	38.00	1.4961	200.0	349.0	MK 4
A1301.1/2	1.1/2	38.10	1.5000	200.0	349.0	MK 4
A13038.5	–	38.50	1.5157	200.0	349.0	MK 4
A13039.0	–	39.00	1.5354	200.0	349.0	MK 4
A13039.5	–	39.50	1.5551	200.0	349.0	MK 4
A1301.9/16	1.9/16	39.69	1.5625	200.0	349.0	MK 4
A13040.0	–	40.00	1.5748	200.0	349.0	MK 4
A13040.5	–	40.50	1.5945	205.0	354.0	MK 4
A13041.0	–	41.00	1.6142	205.0	354.0	MK 4
A1301.5/8	1.5/8	41.28	1.6250	205.0	354.0	MK 4
A13041.5	–	41.50	1.6339	205.0	354.0	MK 4
A13042.0	–	42.00	1.6535	205.0	354.0	MK 4
A13042.5	–	42.50	1.6732	205.0	354.0	MK 4
A1301.11/16	1.11/16	42.86	1.6875	210.0	359.0	MK 4
A13043.0	–	43.00	1.6929	210.0	359.0	MK 4
A13043.5	–	43.50	1.7126	210.0	359.0	MK 4
A13044.0	–	44.00	1.7323	210.0	359.0	MK 4
A1301.3/4	1.3/4	44.45	1.7500	210.0	359.0	MK 4
A13044.5	–	44.50	1.7520	210.0	359.0	MK 4
A13045.0	–	45.00	1.7717	210.0	359.0	MK 4
A13045.5	–	45.50	1.7913	215.0	364.0	MK 4
A13046.0	–	46.00	1.8110	215.0	364.0	MK 4
A13046.5	–	46.50	1.8307	215.0	364.0	MK 4
A13047.0	–	47.00	1.8504	215.0	364.0	MK 4
A13047.5	–	47.50	1.8701	215.0	364.0	MK 4
A13048.0	–	48.00	1.8898	220.0	369.0	MK 4
A13048.5	–	48.50	1.9094	220.0	369.0	MK 4
A13049.0	–	49.00	1.9291	220.0	369.0	MK 4
A13049.5	–	49.50	1.9488	220.0	369.0	MK 4
A13050.0	–	50.00	1.9685	220.0	369.0	MK 4
A1302	2"	50.80	2.0000	225.0	374.0	MK 4

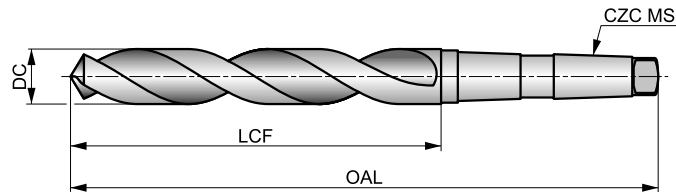


# A530



## Foret à queue cône morse en HSS, revêtement TiN

Foret à pointe conventionnelle résistante à 118° qui facilite le réaffûtage. Conception robuste offrant des performances accrues lors d'utilisations sur des machines conventionnelles. Convient pour percer de nombreux matériaux. Le revêtement TiN améliore les performances et prolonge la durée de vie de l'outil.



HSS	DIN 345	4xD
118°	TiN	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 I	<b>P1.2</b> ■ 45 I	<b>P1.3</b> ■ 46 I	<b>P2.1</b> ■ 34 I	<b>P2.2</b> ■ 30 F	<b>P2.3</b> ■ 27 E	<b>P3.1</b> ■ 29 F	<b>P3.2</b> ■ 24 F	<b>P3.3</b> ■ 20 E	<b>P4.1</b> ■ 18 F	<b>P4.2</b> ■ 15 E	<b>P4.3</b> ■ 12 D	<b>M1.1</b> ■ 33 E	<b>M1.2</b> ■ 28 E
<b>M2.1</b> ■ 29 E	<b>M2.2</b> ■ 24 E	<b>M3.1</b> ■ 15 G	<b>M3.2</b> ■ 13 G	<b>M3.3</b> ■ 12 G	<b>M4.1</b> ■ 20 C	<b>K1.1</b> ■ 36 I	<b>K1.2</b> ■ 27 E	<b>K1.3</b> ■ 20 E	<b>K2.1</b> ■ 33 E	<b>K2.2</b> ■ 27 E	<b>K2.3</b> ■ 22 E	<b>K3.1</b> ■ 29 E	<b>K3.2</b> ■ 22 E
<b>K3.3</b> ■ 18 E	<b>K4.1</b> ■ 27 E	<b>K4.2</b> ■ 21 E	<b>K4.3</b> ■ 15 E	<b>K4.4</b> ■ 13 E	<b>K4.5</b> ■ 11 E	<b>K5.1</b> ■ 31 E	<b>K5.2</b> ■ 23 E	<b>K5.3</b> ■ 18 E	<b>N1.1</b> ■ 55 I	<b>N1.2</b> ■ 41 I	<b>N1.3</b> ■ 28 I	<b>N2.1</b> ■ 54 G	<b>N2.2</b> ■ 48 G
<b>N2.3</b> ■ 35 G	<b>N3.1</b> ■ 93 G	<b>N3.2</b> ■ 55 I	<b>N3.3</b> ■ 28 G	<b>N4.1</b> ■ 50 J	<b>N4.2</b> ■ 50 H	<b>N4.3</b> ■ 35 F	<b>S1.1</b> ■ 32 F	<b>S1.2</b> ■ 18 D	<b>S1.3</b> ■ 13 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 2 A												

DC >= 14mm avec pointe amincie.

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A5308.5	8.50	0.3346	75.0	156.0	MK 1
A5309.0	9.00	0.3543	81.0	162.0	MK 1
A53010.0	10.00	0.3937	87.0	168.0	MK 1
A53010.2	10.20	0.4016	87.0	168.0	MK 1
A53010.5	10.50	0.4134	87.0	168.0	MK 1
A53011.0	11.00	0.4331	94.0	175.0	MK 1
A53011.5	11.50	0.4528	94.0	175.0	MK 1
A53011.75	11.75	0.4626	94.0	175.0	MK 1
A53012.0	12.00	0.4724	101.0	182.0	MK 1
A53012.5	12.50	0.4921	101.0	182.0	MK 1
A53013.0	13.00	0.5118	101.0	182.0	MK 1
A53013.5	13.50	0.5315	108.0	189.0	MK 1
A53014.0	14.00	0.5512	108.0	189.0	MK 1
A53014.5	14.50	0.5709	114.0	212.0	MK 2
A53015.0	15.00	0.5906	114.0	212.0	MK 2
A53015.25	15.25	0.6004	120.0	218.0	MK 2
A53015.5	15.50	0.6102	120.0	218.0	MK 2
A53016.0	16.00	0.6299	120.0	218.0	MK 2
A53016.5	16.50	0.6496	125.0	223.0	MK 2
A53017.0	17.00	0.6693	125.0	223.0	MK 2
A53017.5	17.50	0.6890	130.0	228.0	MK 2
A53018.0	18.00	0.7087	130.0	228.0	MK 2
A53018.5	18.50	0.7283	135.0	233.0	MK 2
A53019.0	19.00	0.7480	135.0	233.0	MK 2
A53019.5	19.50	0.7677	140.0	238.0	MK 2
A53020.0	20.00	0.7874	140.0	238.0	MK 2

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A53020.5	20.50	0.8071	145.0	243.0	MK 2
A53021.0	21.00	0.8268	145.0	243.0	MK 2
A53021.5	21.50	0.8465	150.0	248.0	MK 2
A53022.0	22.00	0.8661	150.0	248.0	MK 2
A53022.5	22.50	0.8858	155.0	253.0	MK 2
A53023.0	23.00	0.9055	155.0	253.0	MK 2
A53023.5	23.50	0.9252	155.0	276.0	MK 3
A53024.0	24.00	0.9449	160.0	281.0	MK 3
A53024.5	24.50	0.9646	160.0	281.0	MK 3
A53025.0	25.00	0.9843	160.0	281.0	MK 3
A53025.5	25.50	1.0039	165.0	286.0	MK 3
A53026.0	26.00	1.0236	165.0	286.0	MK 3
A53026.5	26.50	1.0433	165.0	286.0	MK 3
A53027.0	27.00	1.0630	170.0	291.0	MK 3
A53027.5	27.50	1.0827	170.0	291.0	MK 3
A53028.0	28.00	1.1024	170.0	291.0	MK 3
A53028.5	28.50	1.1220	175.0	296.0	MK 3
A53029.0	29.00	1.1417	175.0	296.0	MK 3
A53029.5	29.50	1.1614	175.0	296.0	MK 3
A53030.0	30.00	1.1811	175.0	296.0	MK 3
A53031.0	31.00	1.2205	180.0	301.0	MK 3
A53032.0	32.00	1.2598	185.0	334.0	MK 4
A53033.0	33.00	1.2992	185.0	334.0	MK 4
A53035.0	35.00	1.3780	190.0	339.0	MK 4
A53040.0	40.00	1.5748	200.0	349.0	MK 4

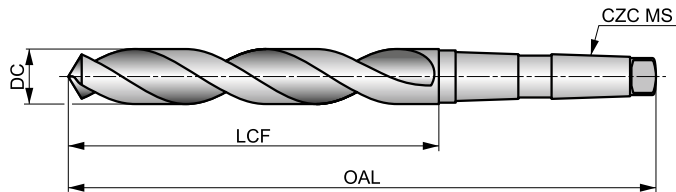


# A730



## Foret à queue cône morse en HSS-E (8% cobalt), finition avec traitement bronze

Foret recommandé pour les matériaux et les applications difficiles. La pointe à 118° est résistante et facile à réaffûter. Convient pour le perçage de nombreux matériaux. La finition avec traitement bronze est une fine couche d'oxyde et c'est une indication pour le cobalt.



HSS-E	DIN 345	4xD
118°	Bronze	
20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 36 H	<b>P1.2</b> ■ 40 H	<b>P1.3</b> ■ 41 H	<b>P2.1</b> ■ 31 H	<b>P2.2</b> ■ 27 G	<b>P2.3</b> ■ 24 E	<b>P3.1</b> ■ 25 F	<b>P3.2</b> ■ 20 F	<b>P3.3</b> ■ 17 E	<b>P4.1</b> ■ 15 F	<b>P4.2</b> ■ 13 E	<b>P4.3</b> ■ 10 D	<b>M1.1</b> ■ 33 E	<b>M1.2</b> ■ 28 E
<b>M2.1</b> ■ 29 E	<b>M2.2</b> ■ 24 E	<b>M3.1</b> ■ 13 G	<b>M3.2</b> ■ 11 G	<b>M3.3</b> ■ 10 G	<b>M4.1</b> ■ 17 C	<b>K1.1</b> ■ 35 J	<b>K1.2</b> ■ 26 G	<b>K1.3</b> ■ 19 G	<b>K2.1</b> ■ 27 E	<b>K2.2</b> ■ 22 E	<b>K2.3</b> ■ 18 E	<b>K3.1</b> ■ 24 E	<b>K3.2</b> ■ 18 E
<b>K3.3</b> ■ 15 E	<b>K4.1</b> ■ 22 E	<b>K4.2</b> ■ 17 E	<b>K4.3</b> ■ 12 E	<b>K4.4</b> ■ 11 E	<b>K4.5</b> ■ 9 E	<b>K5.1</b> ■ 25 E	<b>K5.2</b> ■ 19 E	<b>K5.3</b> ■ 15 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 46 H	<b>N2.2</b> ■ 42 H
<b>N2.3</b> ■ 30 H	<b>N3.1</b> ■ 68 H	<b>N3.2</b> ■ 40 J	<b>N3.3</b> ■ 20 L	<b>N4.1</b> ■ 35 K	<b>N4.2</b> ■ 28 J	<b>N4.3</b> ■ 20 H	<b>S1.1</b> ■ 28 G	<b>S1.2</b> ■ 20 D	<b>S1.3</b> ■ 11 C	<b>S2.1</b> ■ 9 E	<b>S2.2</b> ■ 8 B	<b>S3.1</b> ■ 7 E	<b>S3.2</b> ■ 6 B
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 5 B												

DC >= 14mm avec pointe amincie.

Produit	DC	DC	LCF	OAL	CZC MS	Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)					(mm)	(mm)			
A73010.0	10.00	0.3937	87.0	168.0	MK 1	A73016.25	16.25	0.6398	120.0	218.0	MK 2
A73010.2	10.20	0.4016	87.0	168.0	MK 1	A73016.5	16.50	0.6496	125.0	223.0	MK 2
A73010.5	10.50	0.4134	87.0	168.0	MK 1	A73017.0	17.00	0.6693	125.0	223.0	MK 2
A73010.8	10.80	0.4252	94.0	175.0	MK 1	A73017.25	17.25	0.6791	130.0	228.0	MK 2
A73011.0	11.00	0.4331	94.0	175.0	MK 1	A73017.5	17.50	0.6890	130.0	228.0	MK 2
A73011.5	11.50	0.4528	94.0	175.0	MK 1	A73017.75	17.75	0.6988	130.0	228.0	MK 2
A73011.8	11.80	0.4646	94.0	175.0	MK 1	A73018.0	18.00	0.7087	130.0	228.0	MK 2
A73012.0	12.00	0.4724	101.0	182.0	MK 1	A73018.25	18.25	0.7185	135.0	233.0	MK 2
A73012.2	12.20	0.4803	101.0	182.0	MK 1	A73018.5	18.50	0.7283	135.0	233.0	MK 2
A73012.5	12.50	0.4921	101.0	182.0	MK 1	A73018.75	18.75	0.7382	135.0	233.0	MK 2
A73012.8	12.80	0.5039	101.0	182.0	MK 1	A73019.0	19.00	0.7480	135.0	233.0	MK 2
A73013.0	13.00	0.5118	101.0	182.0	MK 1	A73019.25	19.25	0.7579	140.0	238.0	MK 2
A73013.5	13.50	0.5315	108.0	189.0	MK 1	A73019.5	19.50	0.7677	140.0	238.0	MK 2
A73013.8	13.80	0.5433	108.0	189.0	MK 1	A73019.75	19.75	0.7776	140.0	238.0	MK 2
A73014.0	14.00	0.5512	108.0	189.0	MK 1	A73020.0	20.00	0.7874	140.0	238.0	MK 2
A73014.25	14.25	0.5610	114.0	212.0	MK 2	A73020.25	20.25	0.7972	145.0	243.0	MK 2
A73014.5	14.50	0.5709	114.0	212.0	MK 2	A73020.5	20.50	0.8071	145.0	243.0	MK 2
A73014.75	14.75	0.5807	114.0	212.0	MK 2	A73020.75	20.75	0.8169	145.0	243.0	MK 2
A73015.0	15.00	0.5906	114.0	212.0	MK 2	A73021.0	21.00	0.8268	145.0	243.0	MK 2
A73015.25	15.25	0.6004	120.0	218.0	MK 2	A73021.5	21.50	0.8465	150.0	248.0	MK 2
A73015.5	15.50	0.6102	120.0	218.0	MK 2	A73022.0	22.00	0.8661	150.0	248.0	MK 2
A73015.75	15.75	0.6201	120.0	218.0	MK 2	A73022.5	22.50	0.8858	155.0	253.0	MK 2
A73016.0	16.00	0.6299	120.0	218.0	MK 2	A73023.0	23.00	0.9055	155.0	253.0	MK 2



Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)	(mm)	(mm)	
<b>A73023.5</b>	23.50	0.9252	155.0	276.0	MK 3
<b>A73024.0</b>	24.00	0.9449	160.0	281.0	MK 3
<b>A73024.5</b>	24.50	0.9646	160.0	281.0	MK 3
<b>A73025.0</b>	25.00	0.9843	160.0	281.0	MK 3
<b>A73025.5</b>	25.50	1.0039	165.0	286.0	MK 3
<b>A73026.0</b>	26.00	1.0236	165.0	286.0	MK 3
<b>A73026.5</b>	26.50	1.0433	165.0	286.0	MK 3
<b>A73027.0</b>	27.00	1.0630	170.0	291.0	MK 3

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)	(mm)	(mm)	
<b>A73027.5</b>	27.50	1.0827	170.0	291.0	MK 3
<b>A73028.0</b>	28.00	1.1024	170.0	291.0	MK 3
<b>A73028.5</b>	28.50	1.1220	175.0	296.0	MK 3
<b>A73029.0</b>	29.00	1.1417	175.0	296.0	MK 3
<b>A73030.0</b>	30.00	1.1811	175.0	296.0	MK 3
<b>A73031.0</b>	31.00	1.2205	180.0	301.0	MK 3
<b>A73032.0</b>	32.00	1.2598	185.0	334.0	MK 4

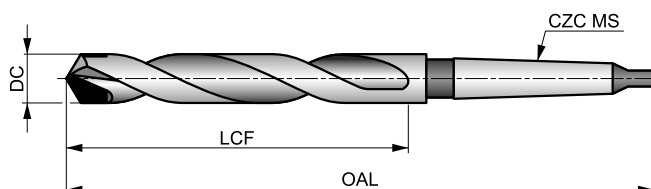


# A166



## Foret à queue cône morse en HSS, finition avec traitement vapeur, avec pointe en carbure brasée

Foret à pointe en carbure brasée offrant les performances élevées d'un foret en carbure monobloc grâce à son corps en HSS moins cassant. Sa pointe à 118° à quatre facettes facilite l'auto-centrage et est facile à réaffûter, ce qui en fait un choix économique pour le perçage de matériaux en fonte.



HSS HM	DIN 345	4xD
118°	Bright ST	
20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ▣73 E	<b>P1.2</b> ▣82 E	<b>P1.3</b> ▣85 E	<b>P2.1</b> ▣63 E	<b>P2.2</b> ▣55 D	<b>P2.3</b> ▣49 C	<b>P3.1</b> ▣59 D	<b>P3.2</b> ▣47 D	<b>P3.3</b> ▣40 C	<b>P4.1</b> ▣35 D	<b>P4.2</b> ▣30 C	<b>P4.3</b> ▣24 A	<b>M1.1</b> ▣55 B	<b>M1.2</b> ▣46 B
<b>M2.1</b> ▣49 B	<b>M2.2</b> ▣40 B	<b>M3.1</b> ▣41 C	<b>M3.2</b> ▣35 C	<b>M3.3</b> ▣32 C	<b>M4.1</b> ▣35 A	<b>K1.1</b> ▣50 C	<b>K1.2</b> ▣37 C	<b>K1.3</b> ▣28 C	<b>K2.1</b> ▣43 C	<b>K2.2</b> ▣35 C	<b>K2.3</b> ▣28 A	<b>K3.1</b> ▣38 C	<b>K3.2</b> ▣29 C
<b>K3.3</b> ▣24 A	<b>K4.1</b> ▣35 C	<b>K4.2</b> ▣27 C	<b>K4.3</b> ▣20 A	<b>K4.4</b> ▣17 A	<b>K4.5</b> ▣14 A	<b>K5.1</b> ▣40 C	<b>K5.2</b> ▣30 C	<b>K5.3</b> ▣23 A	<b>N1.1</b> ▣50 I	<b>N1.2</b> ▣38 I	<b>N1.3</b> ▣25 H	<b>N2.1</b> ▣62 G	<b>N2.2</b> ▣55 G
<b>N2.3</b> ▣40 G	<b>N3.1</b> ▣127 C	<b>N3.2</b> ▣75 G	<b>N3.3</b> ▣38 D	<b>N4.2</b> ▣60 E	<b>S1.1</b> ▣35 A	<b>S1.2</b> ▣35 A	<b>S1.3</b> ▣25 A	<b>S2.1</b> ▣33 A	<b>S2.2</b> ▣28 A	<b>S3.1</b> ▣25 A	<b>S3.2</b> ▣20 A	<b>S4.1</b> ▣20 A	<b>S4.2</b> ▣16 A

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A16610.0	10.00	0.3937	87.0	168.0	MK 1
A16610.5	10.50	0.4134	87.0	168.0	MK 1
A16611.0	11.00	0.4331	94.0	175.0	MK 1
A16611.5	11.50	0.4528	94.0	175.0	MK 1
A16612.0	12.00	0.4724	101.0	182.0	MK 1
A16613.0	13.00	0.5118	101.0	182.0	MK 1
A16613.5	13.50	0.5315	108.0	189.0	MK 1
A16614.0	14.00	0.5512	108.0	189.0	MK 1
A16615.0	15.00	0.5906	114.0	212.0	MK 2
A16616.0	16.00	0.6299	120.0	218.0	MK 2
A16617.0	17.00	0.6693	125.0	223.0	MK 2
A16617.5	17.50	0.6890	130.0	228.0	MK 2
A16618.0	18.00	0.7087	130.0	228.0	MK 2
A16619.0	19.00	0.7480	135.0	233.0	MK 2

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A16620.0	20.00	0.7874	140.0	238.0	MK 2
A16621.0	21.00	0.8268	145.0	243.0	MK 2
A16622.0	22.00	0.8661	150.0	248.0	MK 2
A16622.5	22.50	0.8858	155.0	253.0	MK 2
A16623.0	23.00	0.9055	155.0	253.0	MK 2
A16624.0	24.00	0.9449	160.0	281.0	MK 3
A16625.0	25.00	0.9843	160.0	281.0	MK 3
A16626.0	26.00	1.0236	165.0	286.0	MK 3
A16627.0	27.00	1.0630	170.0	291.0	MK 3
A16628.0	28.00	1.1024	170.0	291.0	MK 3
A16629.0	29.00	1.1417	175.0	296.0	MK 3
A16630.0	30.00	1.1811	175.0	296.0	MK 3
A16632.0	32.00	1.2598	185.0	334.0	MK 4
A16633.0	33.00	1.2992	185.0	334.0	MK 4

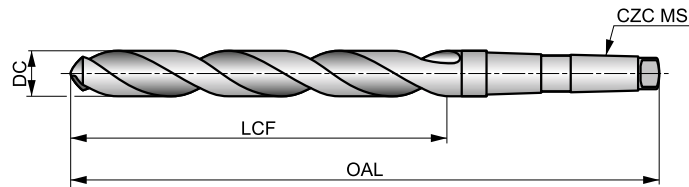


# A350



## Foret à queue cône morse série longue en HSS, finition avec traitement vapeur

Foret recommandé pour le perçage de trous profonds ou pour les applications nécessitant une portée accrue. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. L'angle de pointe à 118° est facile à réaffûter et procure de la résistance. Convient pour le perçage de nombreux matériaux.



HSS	DIN 341	6xD
118°	ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 27 I	<b>P1.2</b> ■ 30 I	<b>P1.3</b> ■ 31 I	<b>P2.1</b> ■ 23 I	<b>P2.2</b> ■ 20 G	<b>P2.3</b> ■ 18 E	<b>P3.1</b> ■ 15 F	<b>P3.2</b> ■ 12 F	<b>P3.3</b> ■ 10 E	<b>P4.1</b> ■ 9 F	<b>P4.2</b> ■ 7 E	<b>P4.3</b> ■ 6 D	<b>M1.1</b> ■ 18 E	<b>M1.2</b> ■ 15 E
<b>M2.1</b> ■ 16 E	<b>M2.2</b> ■ 13 E	<b>M3.1</b> ■ 5 G	<b>M3.2</b> ■ 4 G	<b>M3.3</b> ■ 4 G	<b>M4.1</b> ■ 8 C	<b>K1.1</b> ■ 26 I	<b>K1.2</b> ■ 19 F	<b>K1.3</b> ■ 14 F	<b>K2.1</b> ■ 22 E	<b>K2.2</b> ■ 18 E	<b>K2.3</b> ■ 14 E	<b>K3.1</b> ■ 20 E	<b>K3.2</b> ■ 15 E
<b>K3.3</b> ■ 12 E	<b>K4.1</b> ■ 18 E	<b>K4.2</b> ■ 14 E	<b>K4.3</b> ■ 10 E	<b>K4.4</b> ■ 9 E	<b>K4.5</b> ■ 7 E	<b>K5.1</b> ■ 21 E	<b>K5.2</b> ■ 15 E	<b>K5.3</b> ■ 12 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 59 H	<b>N3.2</b> ■ 35 I	<b>N3.3</b> ■ 18 F	<b>N4.1</b> ■ 35 L	<b>N4.2</b> ■ 26 J	<b>N4.3</b> ■ 12 H	<b>S1.1</b> ■ 16 F	<b>S1.2</b> ■ 19 D	<b>S1.3</b> ■ 5 B	<b>S2.1</b> ■ 5 E	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 E	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 E	<b>S4.2</b> ■ 2 A												

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A3505.0	5.00	0.1969	74.0	155.0	MK 1
A3505.5	5.50	0.2165	80.0	161.0	MK 1
A3506.0	6.00	0.2362	80.0	161.0	MK 1
A3506.7	6.70	0.2638	86.0	167.0	MK 1
A3506.8	6.80	0.2677	93.0	174.0	MK 1
A3507.0	7.00	0.2756	93.0	174.0	MK 1
A3507.5	7.50	0.2953	93.0	174.0	MK 1
A3508.0	8.00	0.3150	100.0	181.0	MK 1
A3508.4	8.40	0.3307	100.0	181.0	MK 1
A3508.5	8.50	0.3346	100.0	181.0	MK 1
A3508.75	8.75	0.3445	107.0	188.0	MK 1
A3509.0	9.00	0.3543	107.0	188.0	MK 1
A3509.5	9.50	0.3740	107.0	188.0	MK 1
A3509.8	9.80	0.3858	116.0	197.0	MK 1
A35010.0	10.00	0.3937	116.0	197.0	MK 1
A35010.2	10.20	0.4016	116.0	197.0	MK 1
A35010.5	10.50	0.4134	116.0	197.0	MK 1
A35010.7	10.70	0.4213	125.0	206.0	MK 1
A35011.0	11.00	0.4331	125.0	206.0	MK 1
A35011.5	11.50	0.4528	125.0	206.0	MK 1
A35011.75	11.75	0.4626	125.0	206.0	MK 1
A35011.8	11.80	0.4646	125.0	206.0	MK 1
A35012.0	12.00	0.4724	134.0	215.0	MK 1
A35012.5	12.50	0.4921	134.0	215.0	MK 1

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A35013.0	13.00	0.5118	134.0	215.0	MK 1
A35013.5	13.50	0.5315	142.0	223.0	MK 1
A35014.0	14.00	0.5512	142.0	223.0	MK 1
A35014.25	14.25	0.5610	147.0	245.0	MK 2
A35014.5	14.50	0.5709	147.0	245.0	MK 2
A35014.75	14.75	0.5807	147.0	245.0	MK 2
A35015.0	15.00	0.5906	147.0	245.0	MK 2
A35015.25	15.25	0.6004	153.0	251.0	MK 2
A35015.5	15.50	0.6102	153.0	251.0	MK 2
A35015.75	15.75	0.6201	153.0	251.0	MK 2
A35016.0	16.00	0.6299	153.0	251.0	MK 2
A35016.25	16.25	0.6398	159.0	257.0	MK 2
A35016.5	16.50	0.6496	159.0	257.0	MK 2
A35016.75	16.75	0.6594	159.0	257.0	MK 2
A35017.0	17.00	0.6693	159.0	257.0	MK 2
A35017.25	17.25	0.6791	165.0	263.0	MK 2
A35017.5	17.50	0.6890	165.0	263.0	MK 2
A35018.0	18.00	0.7087	165.0	263.0	MK 2
A35018.5	18.50	0.7283	171.0	269.0	MK 2
A35019.0	19.00	0.7480	171.0	269.0	MK 2
A35019.5	19.50	0.7677	177.0	275.0	MK 2
A35019.75	19.75	0.7776	177.0	275.0	MK 2
A35020.0	20.00	0.7874	177.0	275.0	MK 2
A35020.25	20.25	0.7972	184.0	282.0	MK 2



Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)	(mm)	(mm)	
<b>A35020.5</b>	20.50	0.8071	184.0	282.0	MK 2
<b>A35021.0</b>	21.00	0.8268	184.0	282.0	MK 2
<b>A35021.5</b>	21.50	0.8465	191.0	289.0	MK 2
<b>A35022.0</b>	22.00	0.8661	191.0	289.0	MK 2
<b>A35022.5</b>	22.50	0.8858	198.0	296.0	MK 2
<b>A35023.0</b>	23.00	0.9055	198.0	296.0	MK 2
<b>A35023.5</b>	23.50	0.9252	198.0	319.0	MK 3
<b>A35024.0</b>	24.00	0.9449	206.0	327.0	MK 3
<b>A35024.5</b>	24.50	0.9646	206.0	327.0	MK 3
<b>A35025.0</b>	25.00	0.9843	206.0	327.0	MK 3
<b>A35025.5</b>	25.50	1.0039	214.0	335.0	MK 3
<b>A35026.0</b>	26.00	1.0236	214.0	335.0	MK 3
<b>A35026.5</b>	26.50	1.0433	214.0	335.0	MK 3
<b>A35027.0</b>	27.00	1.0630	222.0	343.0	MK 3
<b>A35027.5</b>	27.50	1.0827	222.0	343.0	MK 3
<b>A35028.0</b>	28.00	1.1024	222.0	343.0	MK 3
<b>A35029.0</b>	29.00	1.1417	230.0	351.0	MK 3
<b>A35030.0</b>	30.00	1.1811	230.0	351.0	MK 3
<b>A35030.5</b>	30.50	1.2008	239.0	360.0	MK 3
<b>A35031.0</b>	31.00	1.2205	239.0	360.0	MK 3

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)	(mm)	(mm)	
<b>A35031.5</b>	31.50	1.2402	239.0	360.0	MK 3
<b>A35032.0</b>	32.00	1.2598	248.0	397.0	MK 4
<b>A35033.0</b>	33.00	1.2992	248.0	397.0	MK 4
<b>A35034.0</b>	34.00	1.3386	257.0	406.0	MK 4
<b>A35035.0</b>	35.00	1.3780	257.0	406.0	MK 4
<b>A35036.0</b>	36.00	1.4173	267.0	416.0	MK 4
<b>A35037.0</b>	37.00	1.4567	267.0	416.0	MK 4
<b>A35038.0</b>	38.00	1.4961	277.0	426.0	MK 4
<b>A35039.0</b>	39.00	1.5354	277.0	426.0	MK 4
<b>A35040.0</b>	40.00	1.5748	277.0	426.0	MK 4
<b>A35041.0</b>	41.00	1.6142	287.0	436.0	MK 4
<b>A35042.0</b>	42.00	1.6535	287.0	436.0	MK 4
<b>A35043.0</b>	43.00	1.6929	298.0	447.0	MK 4
<b>A35044.0</b>	44.00	1.7323	298.0	447.0	MK 4
<b>A35045.0</b>	45.00	1.7717	298.0	447.0	MK 4
<b>A35046.0</b>	46.00	1.8110	310.0	459.0	MK 4
<b>A35047.0</b>	47.00	1.8504	310.0	459.0	MK 4
<b>A35048.0</b>	48.00	1.8898	321.0	470.0	MK 4
<b>A35050.0</b>	50.00	1.9685	321.0	470.0	MK 4



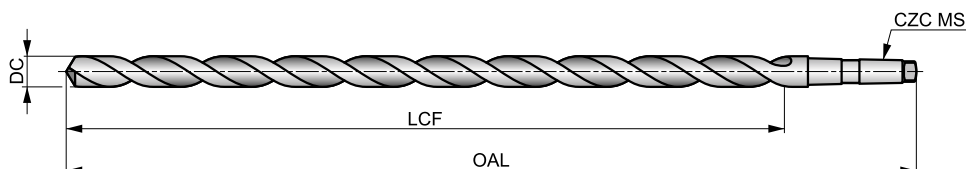


# A345



## Foret série longue à queue cône morse (DIN 1870 série 1) en HSS, finition avec traitement vapeur

Foret recommandé pour le perçage de trous très profonds ou pour les applications nécessitant une portée accrue. La pointe à 118° est facile à réaffûter et procure de la résistance. La finition avec traitement vapeur retient le liquide de coupe et empêche le collage des copeaux sur l'outil. Convient pour le perçage de nombreux matériaux.



HSS	DIN 1870(1)	10xD
118°	ST	
λ 20-35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 23 G	<b>P1.2</b> ■ 25 G	<b>P1.3</b> ■ 26 G	<b>P2.1</b> ■ 19 G	<b>P2.2</b> ■ 17 E	<b>P2.3</b> ■ 15 C	<b>P3.1</b> ■ 9 D	<b>P3.2</b> ■ 7 D	<b>P3.3</b> ■ 6 C	<b>P4.1</b> ■ 5 D	<b>P4.2</b> ■ 4 C	<b>P4.3</b> ■ 4 B	<b>M1.1</b> ■ 16 C	<b>M1.2</b> ■ 14 C
<b>M2.1</b> ■ 15 C	<b>M2.2</b> ■ 12 C	<b>M3.1</b> ■ 5 E	<b>M3.2</b> ■ 4 E	<b>M3.3</b> ■ 4 E	<b>M4.1</b> ■ 8 A	<b>K1.1</b> ■ 22 G	<b>K1.2</b> ■ 16 D	<b>K1.3</b> ■ 12 D	<b>K2.1</b> ■ 16 C	<b>K2.2</b> ■ 13 C	<b>K2.3</b> ■ 10 C	<b>K3.1</b> ■ 14 C	<b>K3.2</b> ■ 11 C
<b>K3.3</b> ■ 9 C	<b>K4.1</b> ■ 13 C	<b>K4.2</b> ■ 10 C	<b>K4.3</b> ■ 7 C	<b>K4.4</b> ■ 6 C	<b>K4.5</b> ■ 5 C	<b>K5.1</b> ■ 15 C	<b>K5.2</b> ■ 11 C	<b>K5.3</b> ■ 9 C	<b>N1.1</b> ■ 33 H	<b>N1.2</b> ■ 25 H	<b>N1.3</b> ■ 17 G	<b>N2.1</b> ■ 42 F	<b>N2.2</b> ■ 37 F
<b>N2.3</b> ■ 27 F	<b>N3.1</b> ■ 56 F	<b>N3.2</b> ■ 33 G	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 30 H	<b>N4.3</b> ■ 10 F	<b>S1.1</b> ■ 15 D	<b>S1.2</b> ■ 9 B	<b>S1.3</b> ■ 5 A	<b>S2.1</b> ■ 5 C	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 C	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 C	<b>S4.2</b> ■ 2 A												

DC > 25.4mm moins de 10xD.

Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A3458.0	–	8.00	0.3150	165.0	265.0	MK 1
A3458.5	–	8.50	0.3346	165.0	265.0	MK 1
A3459.0	–	9.00	0.3543	175.0	275.0	MK 1
A3459.5	–	9.50	0.3740	175.0	275.0	MK 1
A3453/8	3/8	9.52	0.3750	185.0	285.0	MK 1
A34510.0	–	10.00	0.3937	185.0	285.0	MK 1
A34513/32	13/32	10.32	0.4063	185.0	285.0	MK 1
A34510.5	–	10.50	0.4134	185.0	285.0	MK 1
A34511.0	–	11.00	0.4331	195.0	300.0	MK 1
A3457/16	7/16	11.11	0.4375	195.0	300.0	MK 1
A34511.5	–	11.50	0.4528	195.0	300.0	MK 1
A34529/64	29/64	11.51	0.4531	205.0	310.0	MK 1
A34512.0	–	12.00	0.4724	205.0	310.0	MK 1
A34512.5	–	12.50	0.4921	205.0	310.0	MK 1
A3451/2	1/2	12.70	0.5000	205.0	310.0	MK 1
A34513.0	–	13.00	0.5118	205.0	310.0	MK 1
A34517/32	17/32	13.49	0.5313	220.0	325.0	MK 1
A34513.5	–	13.50	0.5315	220.0	325.0	MK 1
A34514.0	–	14.00	0.5512	220.0	325.0	MK 1
A3459/16	9/16	14.29	0.5625	220.0	340.0	MK 2
A34537/64	37/64	14.68	0.5781	220.0	340.0	MK 2
A34515.0	–	15.00	0.5906	220.0	340.0	MK 2
A34539/64	39/64	15.48	0.6094	230.0	355.0	MK 2

Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
A34515.5	–	15.50	0.6102	230.0	355.0	MK 2
A3455/8	5/8	15.88	0.6250	230.0	355.0	MK 2
A34516.0	–	16.00	0.6299	230.0	355.0	MK 2
A34541/64	41/64	16.27	0.6406	230.0	355.0	MK 2
A34516.5	–	16.50	0.6496	230.0	355.0	MK 2
A34521/32	21/32	16.67	0.6563	230.0	355.0	MK 2
A34517.0	–	17.00	0.6693	230.0	355.0	MK 2
A34511/16	11/16	17.46	0.6875	245.0	370.0	MK 2
A34517.5	–	17.50	0.6890	245.0	370.0	MK 2
A34518.0	–	18.00	0.7087	245.0	370.0	MK 2
A34518.5	–	18.50	0.7283	245.0	370.0	MK 2
A34519.0	–	19.00	0.7480	245.0	370.0	MK 2
A3453/4	3/4	19.05	0.7500	260.0	385.0	MK 2
A34519.5	–	19.50	0.7677	260.0	385.0	MK 2
A34520.0	–	20.00	0.7874	260.0	385.0	MK 2
A34520.5	–	20.50	0.8071	260.0	385.0	MK 2
A34521.0	–	21.00	0.8268	260.0	385.0	MK 2
A34521.5	–	21.50	0.8465	270.0	405.0	MK 2
A34522.0	–	22.00	0.8661	270.0	405.0	MK 2
A3457/8	7/8	22.22	0.8750	270.0	405.0	MK 2
A34522.5	–	22.50	0.8858	270.0	405.0	MK 3
A34523.0	–	23.00	0.9055	270.0	405.0	MK 3
A34523.5	–	23.50	0.9252	270.0	425.0	MK 3



Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
<b>A34524.0</b>	–	24.00	0.9449	290.0	440.0	MK 3
<b>A34524.5</b>	–	24.50	0.9646	290.0	440.0	MK 3
<b>A34525.0</b>	–	25.00	0.9843	290.0	440.0	MK 3
<b>A3451</b>	1"	25.40	1.0000	290.0	440.0	MK 3
<b>A34525.5</b>	–	25.50	1.0039	290.0	440.0	MK 3
<b>A34526.0</b>	–	26.00	1.0236	290.0	440.0	MK 3
<b>A34526.5</b>	–	26.50	1.0433	290.0	440.0	MK 3
<b>A34527.0</b>	–	27.00	1.0630	305.0	460.0	MK 3
<b>A34528.0</b>	–	28.00	1.1024	305.0	460.0	MK 3
<b>A34529.0</b>	–	29.00	1.1417	305.0	460.0	MK 3
<b>A34530.0</b>	–	30.00	1.1811	305.0	460.0	MK 3
<b>A3451.1/4</b>	1.1/4	31.75	1.2500	320.0	480.0	MK 3

Produit	DC	DC	DC	LCF	OAL	CZC MS
	(inch)	(mm)	(inch)	(mm)	(mm)	
<b>A34531.0</b>	–	31.00	1.2205	320.0	480.0	MK 3
<b>A34532.0</b>	–	32.00	1.2598	320.0	505.0	MK 4
<b>A34533.0</b>	–	33.00	1.2992	320.0	505.0	MK 4
<b>A34534.0</b>	–	34.00	1.3386	340.0	530.0	MK 4
<b>A34535.0</b>	–	35.00	1.3780	340.0	530.0	MK 4
<b>A34536.0</b>	–	36.00	1.4173	340.0	530.0	MK 4
<b>A34537.0</b>	–	37.00	1.4567	340.0	530.0	MK 4
<b>A34538.0</b>	–	38.00	1.4961	360.0	555.0	MK 4
<b>A3451.1/2</b>	1.1/2	38.10	1.5000	360.0	555.0	MK 4
<b>A34539.0</b>	–	39.00	1.5354	360.0	555.0	MK 4
<b>A34540.0</b>	–	40.00	1.5748	360.0	555.0	MK 4

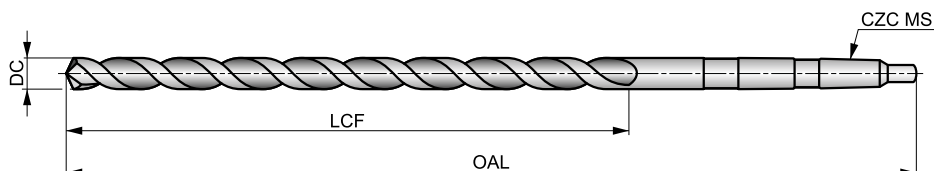


# A951



## Foret à queue cône morse (DIN 1870 série 1) série extra longue PFX en HSS, finition brillante

Foret polyvalent avec une conception spéciale de goujure parabolique pour percer des trous profonds en un seul passage. Le foret a une pointe auto-centrante à 130° (le centrage avec un foret PFX court est recommandé) de sorte que la force nécessaire pour percer le trou est réduite. Convient pour percer de nombreux matériaux.



HSS	DIN 1870(1)	15×D
130°	Bright ST	
λ > 35°	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 25 G	<b>P1.2</b> ■ 28 G	<b>P1.3</b> ■ 29 G	<b>P2.1</b> ■ 22 G	<b>P2.2</b> ■ 19 E	<b>P2.3</b> ■ 17 C	<b>P3.1</b> ■ 12 D	<b>P3.2</b> ■ 9 D	<b>P3.3</b> ■ 8 C	<b>P4.1</b> ■ 7 D	<b>P4.2</b> ■ 6 C	<b>P4.3</b> ■ 5 B	<b>M1.1</b> ■ 16 C	<b>M1.2</b> ■ 14 C
<b>M2.1</b> ■ 15 C	<b>M2.2</b> ■ 12 C	<b>M3.1</b> ■ 7 E	<b>M3.2</b> ■ 6 E	<b>M3.3</b> ■ 5 E	<b>M4.1</b> ■ 12 A	<b>K1.1</b> ■ 22 G	<b>K1.2</b> ■ 16 D	<b>K1.3</b> ■ 12 D	<b>K2.1</b> ■ 16 C	<b>K2.2</b> ■ 13 C	<b>K2.3</b> ■ 10 C	<b>K3.1</b> ■ 14 C	<b>K3.2</b> ■ 11 C
<b>K3.3</b> ■ 9 C	<b>K4.1</b> ■ 13 C	<b>K4.2</b> ■ 10 C	<b>K4.3</b> ■ 7 C	<b>K4.4</b> ■ 6 C	<b>K4.5</b> ■ 5 C	<b>K5.1</b> ■ 15 C	<b>K5.2</b> ■ 11 C	<b>K5.3</b> ■ 9 C	<b>N1.1</b> ■ 30 H	<b>N1.2</b> ■ 23 H	<b>N1.3</b> ■ 15 G	<b>N2.1</b> ■ 37 F	<b>N2.2</b> ■ 33 F
<b>N2.3</b> ■ 24 F	<b>N3.1</b> ■ 56 F	<b>N3.2</b> ■ 33 G	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 30 H	<b>N4.3</b> ■ 10 F	<b>S1.1</b> ■ 18 D	<b>S1.2</b> ■ 10 B	<b>S1.3</b> ■ 6 A	<b>S2.1</b> ■ 7 C	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 5 C	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 4 C	<b>S4.2</b> ■ 2 A												

DC >= 14.5mm moins de 15xD; DC > 23mm Brillant.

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A95110.0	10.00	0.3937	185.0	285.0	MK 1
A95111.0	11.00	0.4331	195.0	300.0	MK 1
A95112.0	12.00	0.4724	205.0	310.0	MK 1
A95112.5	12.50	0.4921	205.0	310.0	MK 1
A95113.0	13.00	0.5118	205.0	310.0	MK 1
A95113.5	13.50	0.5315	220.0	325.0	MK 1
A95114.0	14.00	0.5512	220.0	325.0	MK 1
A95114.5	14.50	0.5709	220.0	340.0	MK 2
A95115.0	15.00	0.5906	220.0	340.0	MK 2
A95115.5	15.50	0.6102	230.0	355.0	MK 2
A95116.0	16.00	0.6299	230.0	355.0	MK 2
A95116.5	16.50	0.6496	230.0	355.0	MK 2
A95117.0	17.00	0.6693	230.0	355.0	MK 2
A95117.5	17.50	0.6890	245.0	370.0	MK 2
A95118.0	18.00	0.7087	245.0	370.0	MK 2

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A95118.5	18.50	0.7283	245.0	370.0	MK 2
A95119.0	19.00	0.7480	245.0	370.0	MK 2
A95119.5	19.50	0.7677	260.0	385.0	MK 2
A95120.0	20.00	0.7874	260.0	385.0	MK 2
A95121.0	21.00	0.8268	260.0	385.0	MK 2
A95122.0	22.00	0.8661	270.0	405.0	MK 2
A95123.0	23.00	0.9055	270.0	405.0	MK 2
A95124.0	24.00	0.9449	290.0	440.0	MK 3
A95125.0	25.00	0.9843	290.0	440.0	MK 3
A95126.0	26.00	1.0236	290.0	440.0	MK 3
A95127.0	27.00	1.0630	305.0	460.0	MK 3
A95128.0	28.00	1.1024	305.0	460.0	MK 3
A95129.0	29.00	1.1417	305.0	460.0	MK 3
A95130.0	30.00	1.1811	305.0	460.0	MK 3

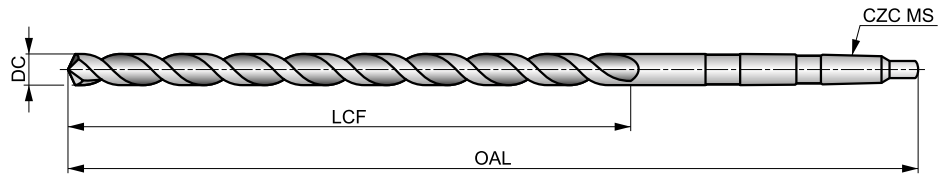


# A952



## Foret à queue cône morse (DIN 1870 série 2) série extra longue PFX en HSS, finition brillante

Foret polyvalent avec une conception spéciale de goujure parabolique pour percer des trous profonds en un seul passage. Le foret a une pointe auto-centrante à 130° (le centrage avec un foret PFX court est recommandé) de sorte que la force nécessaire pour percer le trou est réduite. Convient pour percer de nombreux matériaux.



HSS	DIN 1870(2)	20xD
130°	Bright ST	
$\lambda > 35^\circ$	R	DC h8

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 25 G	<b>P1.2</b> ■ 28 G	<b>P1.3</b> ■ 29 G	<b>P2.1</b> ■ 22 G	<b>P2.2</b> ■ 19 E	<b>P2.3</b> ■ 17 C	<b>P3.1</b> ■ 12 D	<b>P3.2</b> ■ 9 D	<b>P3.3</b> ■ 8 C	<b>P4.1</b> ■ 7 D	<b>P4.2</b> ■ 6 C	<b>P4.3</b> ■ 5 B	<b>M1.1</b> ■ 16 C	<b>M1.2</b> ■ 14 C
<b>M2.1</b> ■ 15 C	<b>M2.2</b> ■ 12 C	<b>M3.1</b> ■ 7 E	<b>M3.2</b> ■ 6 E	<b>M3.3</b> ■ 5 E	<b>M4.1</b> ■ 12 A	<b>K1.1</b> ■ 22 G	<b>K1.2</b> ■ 16 D	<b>K1.3</b> ■ 12 D	<b>K2.1</b> ■ 16 C	<b>K2.2</b> ■ 13 C	<b>K2.3</b> ■ 10 C	<b>K3.1</b> ■ 14 C	<b>K3.2</b> ■ 11 C
<b>K3.3</b> ■ 9 C	<b>K4.1</b> ■ 13 C	<b>K4.2</b> ■ 10 C	<b>K4.3</b> ■ 7 C	<b>K4.4</b> ■ 6 C	<b>K4.5</b> ■ 5 C	<b>K5.1</b> ■ 15 C	<b>K5.2</b> ■ 11 C	<b>K5.3</b> ■ 9 C	<b>N1.1</b> ■ 30 H	<b>N1.2</b> ■ 23 H	<b>N1.3</b> ■ 15 G	<b>N2.1</b> ■ 37 F	<b>N2.2</b> ■ 33 F
<b>N2.3</b> ■ 24 F	<b>N3.1</b> ■ 56 F	<b>N3.2</b> ■ 33 G	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 30 H	<b>N4.3</b> ■ 10 F	<b>S1.1</b> ■ 18 D	<b>S1.2</b> ■ 10 B	<b>S1.3</b> ■ 6 A	<b>S2.1</b> ■ 7 C	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 5 C	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 4 C	<b>S4.2</b> ■ 2 A												

DC >= 14.5mm moins de 20xD; DC > 23mm Brillant.

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A9528.0	8.00	0.3150	210.0	330.0	MK 1
A9528.5	8.50	0.3346	210.0	330.0	MK 1
A9529.0	9.00	0.3543	220.0	345.0	MK 1
A95210.0	10.00	0.3937	235.0	360.0	MK 1
A95210.5	10.50	0.4134	235.0	360.0	MK 1
A95211.0	11.00	0.4331	250.0	375.0	MK 1
A95211.5	11.50	0.4528	250.0	375.0	MK 1
A95212.0	12.00	0.4724	260.0	395.0	MK 1
A95212.5	12.50	0.4921	260.0	395.0	MK 1
A95213.0	13.00	0.5118	260.0	395.0	MK 1
A95213.5	13.50	0.5315	275.0	410.0	MK 1
A95214.0	14.00	0.5512	275.0	410.0	MK 1
A95214.5	14.50	0.5709	275.0	425.0	MK 2
A95215.0	15.00	0.5906	275.0	425.0	MK 2
A95215.5	15.50	0.6102	295.0	445.0	MK 2
A95216.0	16.00	0.6299	295.0	445.0	MK 2
A95216.5	16.50	0.6496	295.0	445.0	MK 2
A95217.0	17.00	0.6693	295.0	445.0	MK 2
A95217.5	17.50	0.6890	310.0	465.0	MK 2
A95218.0	18.00	0.7087	310.0	465.0	MK 2
A95218.5	18.50	0.7283	310.0	465.0	MK 2

Produit	DC	DC	LCF	OAL	CZC MS
	(mm)	(inch)			
A95219.0	19.00	0.7480	310.0	465.0	MK 2
A95219.5	19.50	0.7677	325.0	490.0	MK 2
A95220.0	20.00	0.7874	325.0	490.0	MK 2
A95221.0	21.00	0.8268	325.0	490.0	MK 2
A95222.0	22.00	0.8661	345.0	515.0	MK 2
A95223.0	23.00	0.9055	345.0	515.0	MK 2
A95224.0	24.00	0.9449	365.0	555.0	MK 3
A95225.0	25.00	0.9843	365.0	555.0	MK 3
A95226.0	26.00	1.0236	365.0	555.0	MK 3
A95227.0	27.00	1.0630	385.0	580.0	MK 3
A95228.0	28.00	1.1024	385.0	580.0	MK 3
A95229.0	29.00	1.1417	385.0	580.0	MK 3
A95230.0	30.00	1.1811	385.0	580.0	MK 3
A95231.0	31.00	1.2205	410.0	610.0	MK 3
A95232.0	32.00	1.2598	410.0	635.0	MK 4
A95233.0	33.00	1.2992	410.0	635.0	MK 4
A95234.0	34.00	1.3386	430.0	665.0	MK 4
A95235.0	35.00	1.3780	430.0	665.0	MK 4
A95238.0	38.00	1.4961	460.0	695.0	MK 4
A95240.0	40.00	1.5748	460.0	695.0	MK 4

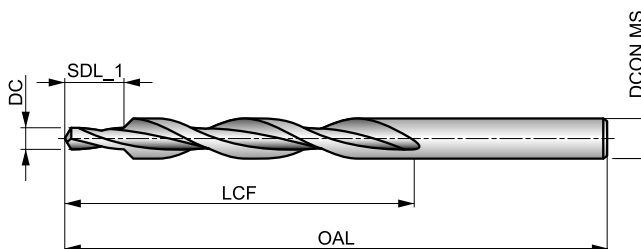


# A400



## Foret étagé en HSS, finition avec traitement vapeur

Foret polyvalent conçu pour percer des trous de passage chanfreinés pour des vis à têtes fraisées métriques standard. Pointe à 118° avec chanfrein à 90°. Convient à la fois aux machines CNC et conventionnelles. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient pour percer de nombreux matériaux.



HSS	DIN 8374	4xD
90°	ST	
λ 20-35°	R	118°

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 G	<b>P1.2</b> ■ 33 G	<b>P1.3</b> ■ 34 G	<b>P2.1</b> ■ 25 G	<b>P2.2</b> ■ 22 E	<b>P2.3</b> ■ 19 C	<b>P3.1</b> ■ 15 E	<b>P3.2</b> ■ 12 E	<b>P3.3</b> ■ 10 C	<b>P4.1</b> ■ 9 E	<b>P4.2</b> ■ 7 C	<b>P4.3</b> ■ 6 C	<b>M1.1</b> ■ 22 E	<b>M1.2</b> ■ 19 E
<b>M2.1</b> ■ 20 E	<b>M2.2</b> ■ 16 E	<b>M3.1</b> ■ 10 G	<b>M3.2</b> ■ 9 G	<b>M3.3</b> ■ 8 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 30 G	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ■ 23 E	<b>K2.2</b> ■ 19 E	<b>K2.3</b> ■ 15 C	<b>K3.1</b> ■ 21 E	<b>K3.2</b> ■ 16 E
<b>K3.3</b> ■ 13 C	<b>K4.1</b> ■ 19 E	<b>K4.2</b> ■ 14 E	<b>K4.3</b> ■ 11 C	<b>K4.4</b> ■ 9 C	<b>K4.5</b> ■ 8 C	<b>K5.1</b> ■ 22 E	<b>K5.2</b> ■ 16 E	<b>K5.3</b> ■ 13 C	<b>N1.1</b> ■ 45 E	<b>N1.2</b> ■ 34 E	<b>N1.3</b> ■ 23 E	<b>N2.1</b> ■ 49 E	<b>N2.2</b> ■ 44 E
<b>N2.3</b> ■ 32 E	<b>N3.1</b> ■ 68 E	<b>N3.2</b> ■ 40 E	<b>N3.3</b> ■ 20 E	<b>N4.1</b> ■ 130 I	<b>S1.1</b> ■ 23 E	<b>S1.2</b> ■ 14 C	<b>S1.3</b> ■ 18 A	<b>S2.1</b> ■ 8 C	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 6 C	<b>S3.2</b> ■ 4 A	<b>S4.1</b> ■ 5 C	<b>S4.2</b> ■ 3 A

Produit	TDZ	DC	DC	LCF	OAL	SDL_1	DCON MS
		(mm)	(inch)				
A400M3	M3	3.20	0.1260	57.0	93.0	9.00	6.00
A400M4	M4	4.30	0.1693	75.0	117.0	11.00	8.00
A400M5	M5	5.30	0.2087	87.0	133.0	13.00	10.00
A400M6	M6	6.40	0.2520	94.0	142.0	15.00	11.50
A400M8	M8	8.40	0.3307	114.0	169.0	19.00	15.00
A400M10	M10	10.50	0.4134	135.0	198.0	23.00	19.00

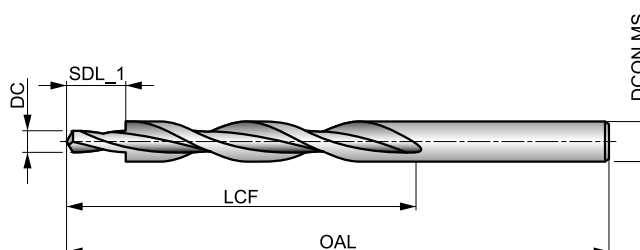


# A402



## Foret étagé en HSS, finition avec traitement vapeur

Foret polyvalent recommandé pour percer des trous de passage lamés pour les vis CHC métriques standard. Pointe à 118° avec épaulement à 180°. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient pour percer de nombreux matériaux.



HSS	DIN 8376	4xD
180°	ST	
λ 20-35°	R	118°

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 G	<b>P1.2</b> ■ 33 G	<b>P1.3</b> ■ 34 G	<b>P2.1</b> ■ 25 G	<b>P2.2</b> ■ 22 E	<b>P2.3</b> ■ 19 C	<b>P3.1</b> ■ 15 E	<b>P3.2</b> ■ 12 E	<b>P3.3</b> ■ 10 C	<b>P4.1</b> ■ 9 E	<b>P4.2</b> ■ 7 C	<b>P4.3</b> ■ 6 C	<b>M1.1</b> ■ 22 E	<b>M1.2</b> ■ 19 E
<b>M2.1</b> ■ 20 E	<b>M2.2</b> ■ 16 E	<b>M3.1</b> ■ 10 G	<b>M3.2</b> ■ 9 G	<b>M3.3</b> ■ 8 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 30 G	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ■ 23 E	<b>K2.2</b> ■ 19 E	<b>K2.3</b> ■ 15 C	<b>K3.1</b> ■ 21 E	<b>K3.2</b> ■ 16 E
<b>K3.3</b> ■ 13 C	<b>K4.1</b> ■ 19 E	<b>K4.2</b> ■ 14 E	<b>K4.3</b> ■ 11 C	<b>K4.4</b> ■ 9 C	<b>K4.5</b> ■ 8 C	<b>K5.1</b> ■ 22 E	<b>K5.2</b> ■ 16 E	<b>K5.3</b> ■ 13 C	<b>N1.1</b> ■ 45 E	<b>N1.2</b> ■ 34 E	<b>N1.3</b> ■ 23 E	<b>N2.1</b> ■ 49 E	<b>N2.2</b> ■ 44 E
<b>N2.3</b> ■ 32 E	<b>N3.1</b> ■ 68 E	<b>N3.2</b> ■ 40 E	<b>N3.3</b> ■ 20 E	<b>N4.1</b> ■ 30 I	<b>S1.1</b> ■ 23 E	<b>S1.2</b> ■ 14 C	<b>S1.3</b> ■ 8 A	<b>S2.1</b> ■ 8 C	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 6 C	<b>S3.2</b> ■ 4 A	<b>S4.1</b> ■ 5 C	<b>S4.2</b> ■ 3 A

Produit	TDZ	DC	DC	LCF	OAL	SDL_1	DCON MS
		(mm)	(inch)				
A402M3	M3	3.40	0.1339	57.0	93.0	9.00	6.00
A402M4	M4	4.50	0.1772	75.0	117.0	11.00	8.00
A402M5	M5	5.50	0.2165	87.0	133.0	13.00	10.00
A402M6	M6	6.60	0.2598	94.0	142.0	15.00	11.00
A402M8	M8	9.00	0.3543	114.0	169.0	19.00	15.00
A402M10	M10	11.00	0.4331	130.0	191.0	23.00	18.00

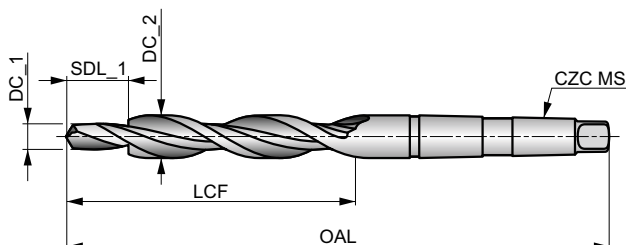


# A405



## Foret étagé à queue cône morse en HSS, finition avec traitement vapeur

Foret polyvalent recommandé pour percer des trous de passage lamés pour les vis CHC métriques standard. Pointe à 118° avec épaulement à 180°. Convient à la fois aux machines CNC et conventionnelles. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient pour percer de nombreux matériaux.



HSS	DIN 8377	4xD
180°	ST	
$\lambda$ 20-35°	R	118°

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 G	<b>P1.2</b> ■ 33 G	<b>P1.3</b> ■ 34 G	<b>P2.1</b> ■ 25 G	<b>P2.2</b> ■ 22 E	<b>P2.3</b> ■ 19 C	<b>P3.1</b> ■ 15 E	<b>P3.2</b> ■ 12 E	<b>P3.3</b> ■ 10 C	<b>P4.1</b> ■ 9 E	<b>P4.2</b> ■ 7 C	<b>P4.3</b> ■ 6 C	<b>M1.1</b> ■ 22 E	<b>M1.2</b> ■ 19 E
<b>M2.1</b> ■ 20 E	<b>M2.2</b> ■ 16 E	<b>M3.1</b> ■ 10 G	<b>M3.2</b> ■ 9 G	<b>M3.3</b> ■ 8 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 30 G	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ■ 23 E	<b>K2.2</b> ■ 19 E	<b>K2.3</b> ■ 15 C	<b>K3.1</b> ■ 21 E	<b>K3.2</b> ■ 16 E
<b>K3.3</b> ■ 13 C	<b>K4.1</b> ■ 19 E	<b>K4.2</b> ■ 14 E	<b>K4.3</b> ■ 11 C	<b>K4.4</b> ■ 9 C	<b>K4.5</b> ■ 8 C	<b>K5.1</b> ■ 22 E	<b>K5.2</b> ■ 16 E	<b>K5.3</b> ■ 13 C	<b>N1.1</b> ■ 45 E	<b>N1.2</b> ■ 34 E	<b>N1.3</b> ■ 23 E	<b>N2.1</b> ■ 49 E	<b>N2.2</b> ■ 44 E
<b>N2.3</b> ■ 32 E	<b>N3.1</b> ■ 68 E	<b>N3.2</b> ■ 40 E	<b>N3.3</b> ■ 20 E	<b>N4.1</b> ■ 30 I	<b>S1.1</b> ■ 23 E	<b>S1.2</b> ■ 14 C	<b>S1.3</b> ■ 8 A	<b>S2.1</b> ■ 8 C	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 6 C	<b>S3.2</b> ■ 4 A	<b>S4.1</b> ■ 5 C	<b>S4.2</b> ■ 3 A

Produit	TDZ	DC_1	DC_1	DC_2	LCF	OAL	SDL_1	CZC MS
		(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	
A405M6	M6	6.60	0.2598	11.00	94.0	175.0	15.00	MK 1
A405M8	M8	9.00	0.3543	15.00	114.0	212.0	19.00	MK 2
A405M10	M10	11.00	0.4331	18.00	130.0	228.0	23.00	MK 2
A405M12	M12	13.50	0.5315	20.00	140.0	238.0	27.00	MK 2
A405M14	M14	15.50	0.6102	24.00	160.0	281.0	31.00	MK 3
A405M16	M16	17.50	0.6890	26.00	165.0	286.0	35.00	MK 3
A405M18	M18	20.00	0.7874	30.00	175.0	296.0	39.00	MK 3

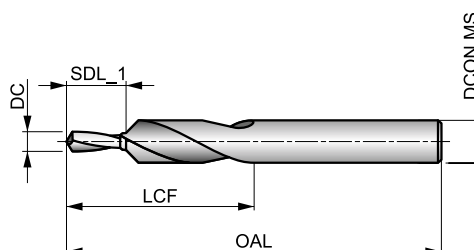


# A412



## Foret étagé en HSS, finition avec traitement vapeur

Foret conçu pour percer des trous de passage chanfreinés pour des vis à têtes fraisées métriques standard. Un angle de pointe de 118° sur le pilote de forage avec un chanfrein de 90°. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient pour percer de nombreux matériaux. Il convient aux machines CNC et conventionnelles.



HSS	DORMER	2.5×D
90°	ST	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 I	<b>P1.2</b> ■ 33 I	<b>P1.3</b> ■ 34 I	<b>P2.1</b> ■ 25 I	<b>P2.2</b> ■ 22 G	<b>P2.3</b> ▣ 19 E	<b>P3.1</b> ■ 15 G	<b>P3.2</b> ■ 12 G	<b>P3.3</b> ▣ 10 E	<b>P4.1</b> ■ 9 G	<b>P4.2</b> ▣ 7 E	<b>P4.3</b> ▣ 6 C	<b>M1.1</b> ■ 22 G	<b>M1.2</b> ■ 19 G
<b>M2.1</b> ■ 20 G	<b>M2.2</b> ■ 16 G	<b>M3.1</b> ▣ 10 I	<b>M3.2</b> ▣ 9 I	<b>M3.3</b> ▣ 8 I	<b>M4.1</b> ▣ 12 E	<b>K1.1</b> ■ 30 G	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ▣ 23 E	<b>K2.2</b> ▣ 19 E	<b>K2.3</b> ▣ 15 E	<b>K3.1</b> ▣ 21 E	<b>K3.2</b> ▣ 16 E
<b>K3.3</b> ▣ 13 E	<b>K4.1</b> ▣ 19 E	<b>K4.2</b> ▣ 14 E	<b>K4.3</b> ▣ 11 E	<b>K4.4</b> ▣ 9 E	<b>K4.5</b> ▣ 8 E	<b>K5.1</b> ▣ 22 E	<b>K5.2</b> ▣ 16 E	<b>K5.3</b> ▣ 13 E	<b>N1.1</b> ▣ 45 G	<b>N1.2</b> ▣ 34 G	<b>N1.3</b> ▣ 23 G	<b>N2.1</b> ▣ 42 G	<b>N2.2</b> ▣ 37 G
<b>N2.3</b> ▣ 27 G	<b>N3.1</b> ▣ 68 G	<b>N3.2</b> ▣ 40 G	<b>N3.3</b> ▣ 20 G	<b>N4.1</b> ▣ 30 I	<b>S1.1</b> ▣ 27 G	<b>S1.2</b> ▣ 16 E	<b>S1.3</b> ▣ 8 C	<b>S2.1</b> ▣ 11 G	<b>S2.2</b> ▣ 6 C	<b>S3.1</b> ▣ 8 G	<b>S3.2</b> ▣ 4 C	<b>S4.1</b> ▣ 6 G	<b>S4.2</b> ▣ 3 C

Produit	TDZ	DC	DC	LCF	OAL	SDL_1	DCON MS
		(mm)	(inch)				
A412M3	M3	3.40	0.1339	31.0	70.0	9.00	6.60
A412M4	M4	4.50	0.1772	40.0	84.0	11.00	9.00
A412M5	M5	5.50	0.2165	47.0	95.0	13.00	11.00
A412M6	M6	6.60	0.2598	51.0	102.0	15.00	13.00
A412M8	M8	9.00	0.3543	62.0	123.0	19.00	17.20
A412M10	M10	11.00	0.4331	70.0	141.0	23.00	21.50



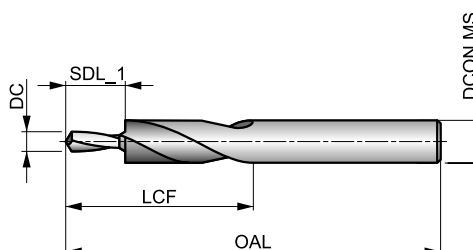


# A413



## Foret étagé en HSS, finition avec traitement vapeur

Foret polyvalent recommandé pour percer des trous de passage lamés pour les vis CHC métriques standard. Pointe à 118° avec épaulement à 180°. La finition avec traitement vapeur retient le fluide de coupe et empêche le collage des copeaux sur l'outil. Convient à la fois aux machines CNC et conventionnelles. Convient pour percer de nombreux matériaux.



HSS	DORMER	2.5xD
180°	ST	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 29 I	<b>P1.2</b> ■ 33 I	<b>P1.3</b> ■ 34 I	<b>P2.1</b> ■ 25 I	<b>P2.2</b> ■ 22 G	<b>P2.3</b> ■ 19 E	<b>P3.1</b> ■ 15 G	<b>P3.2</b> ■ 12 G	<b>P3.3</b> ■ 10 E	<b>P4.1</b> ■ 9 G	<b>P4.2</b> ■ 7 E	<b>P4.3</b> ■ 6 C	<b>M1.1</b> ■ 22 G	<b>M1.2</b> ■ 19 G
<b>M2.1</b> ■ 20 G	<b>M2.2</b> ■ 16 G	<b>M3.1</b> ■ 10 I	<b>M3.2</b> ■ 9 I	<b>M3.3</b> ■ 8 I	<b>M4.1</b> ■ 12 E	<b>K1.1</b> ■ 30 G	<b>K1.2</b> ■ 22 E	<b>K1.3</b> ■ 17 E	<b>K2.1</b> ■ 23 E	<b>K2.2</b> ■ 19 E	<b>K2.3</b> ■ 15 E	<b>K3.1</b> ■ 21 E	<b>K3.2</b> ■ 16 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 19 E	<b>K4.2</b> ■ 14 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 9 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 22 E	<b>K5.2</b> ■ 16 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 45 G	<b>N1.2</b> ■ 34 G	<b>N1.3</b> ■ 23 G	<b>N2.1</b> ■ 42 G	<b>N2.2</b> ■ 37 G
<b>N2.3</b> ■ 27 G	<b>N3.1</b> ■ 68 G	<b>N3.2</b> ■ 40 G	<b>N3.3</b> ■ 20 G	<b>N4.1</b> ■ 130 I	<b>S1.1</b> ■ 27 G	<b>S1.2</b> ■ 16 E	<b>S1.3</b> ■ 8 C	<b>S2.1</b> ■ 11 G	<b>S2.2</b> ■ 6 C	<b>S3.1</b> ■ 8 G	<b>S3.2</b> ■ 4 C	<b>S4.1</b> ■ 6 G	<b>S4.2</b> ■ 3 C

Produit	TDZ	DC	DC	LCF	OAL	SDL_1	DCON MS
		(mm)	(inch)				
A413M3	M3	3.40	0.1339	28.0	66.0	9.00	6.00
A413M4	M4	4.50	0.1772	37.0	79.0	11.00	8.00
A413M5	M5	5.50	0.2165	43.0	89.0	13.00	10.00
A413M6	M6	6.60	0.2598	47.0	95.0	15.00	11.00
A413M8	M8	9.00	0.3543	56.0	111.0	19.00	15.00
A413M10	M10	11.00	0.4331	62.0	123.0	23.00	18.00

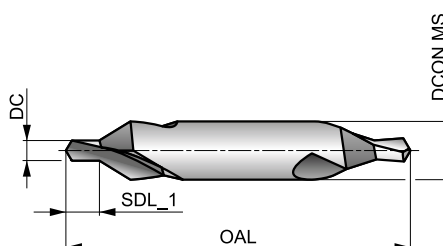


# A200



## Foret à centrer en HSS avec pointe à 118° et chanfrein à 60°, finition brillante

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Convient à de nombreux matériaux.



HSS	DIN 333A	1xD
60°	Bright	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 17 B	<b>S2.1</b> ■ 17 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Les produits de cette série sont également disponibles en coffret. Voir A296.

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
A200.5X3.15 <sup>1)</sup>	0.50	0.0197	0.9 - 0.6	25.0	3.15
A200.8X3.15 <sup>1)</sup>	0.80	0.0315	1.3 - 1.0	25.0	3.15
A2001.0X3.15	1.00	0.0394	1.7 - 1.3	31.0	3.15
A2001.25X3.15	1.25	0.0492	2.0 - 1.6	31.0	3.15
A2001.6X4.0	1.60	0.0630	2.6 - 2.0	35.0	4.00
A2002.0X5.0	2.00	0.0787	3.1 - 2.5	40.0	5.00
A2002.5X6.3	2.50	0.0984	3.8 - 3.1	45.0	6.30
A2003.15X8.0	3.15	0.1240	4.6 - 3.9	50.0	8.00
A2004.0X10.0	4.00	0.1575	5.9 - 5.0	55.0	10.00
A2005.0X12.5	5.00	0.1969	7.2 - 6.3	63.0	12.50
A2006.3X16.0	6.30	0.2480	8.9 - 8.0	71.0	16.00
A2008.0X20.0	8.00	0.3150	11.1 - 10.1	80.0	20.00
A20010.0X25.0	10.00	0.3937	13.8 - 12.8	100.0	25.00
A20012.5X31.5	12.50	0.4921	17.5 - 16.5	125.0	31.50

<sup>1)</sup> Une seule pointe.

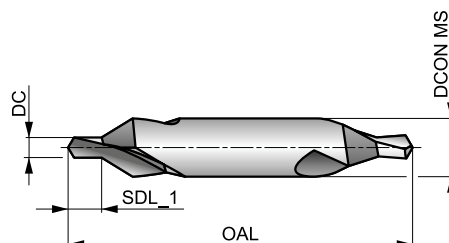
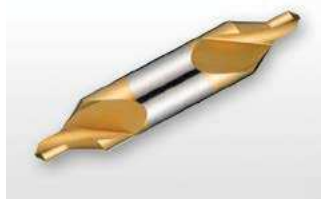


# A205

**DORMER**

## Foret à centrer en HSS avec pointe à 118° et chanfrein à 60°, revêtement TiN

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Le revêtement TiN améliore les performances et prolonge la durée de vie de l'outil. Convient pour le perçage de nombreux matériaux.



HSS	DIN 333A	1xD
60°	TiN	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 I	<b>P1.2</b> ■ 45 I	<b>P1.3</b> ■ 46 I	<b>P2.1</b> ■ 34 I	<b>P2.2</b> ■ 30 G	<b>P2.3</b> ■ 27 E	<b>P3.1</b> ■ 24 F	<b>P3.2</b> ■ 19 F	<b>P3.3</b> ■ 16 E	<b>P4.1</b> ■ 14 F	<b>P4.2</b> ■ 12 E	<b>P4.3</b> ■ 10 D	<b>M1.1</b> ■ 25 E	<b>M1.2</b> ■ 21 E
<b>M2.1</b> ■ 22 E	<b>M2.2</b> ■ 18 E	<b>M3.1</b> ■ 12 G	<b>M3.2</b> ■ 10 G	<b>M3.3</b> ■ 9 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 36 I	<b>K1.2</b> ■ 27 F	<b>K1.3</b> ■ 20 F	<b>K2.1</b> ■ 30 E	<b>K2.2</b> ■ 24 E	<b>K2.3</b> ■ 19 E	<b>K3.1</b> ■ 26 E	<b>K3.2</b> ■ 20 E
<b>K3.3</b> ■ 16 E	<b>K4.1</b> ■ 24 E	<b>K4.2</b> ■ 18 E	<b>K4.3</b> ■ 13 E	<b>K4.4</b> ■ 11 E	<b>K4.5</b> ■ 10 E	<b>K5.1</b> ■ 27 E	<b>K5.2</b> ■ 21 E	<b>K5.3</b> ■ 16 E	<b>N1.1</b> ■ 40 J	<b>N1.2</b> ■ 30 J	<b>N1.3</b> ■ 20 I	<b>N2.1</b> ■ 49 H	<b>N2.2</b> ■ 44 H
<b>N2.3</b> ■ 32 H	<b>N3.1</b> ■ 68 H	<b>N3.2</b> ■ 40 I	<b>N3.3</b> ■ 20 G	<b>N4.1</b> ■ 36 J	<b>N4.2</b> ■ 34 H	<b>N4.3</b> ■ 17 F	<b>S1.1</b> ■ 29 F	<b>S1.2</b> ■ 16 D	<b>S1.3</b> ■ 8 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 7 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 5 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 4 A												

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)			
A2051.0X3.15	1.00	0.0394	1.7 - 1.3	31.0	3.15
A2051.25X3.15	1.25	0.0492	2.0 - 1.6	31.0	3.15
A2051.6X4.0	1.60	0.0630	2.6 - 2.0	35.0	4.00
A2052.0X5.0	2.00	0.0787	3.1 - 2.5	40.0	5.00
A2052.5X6.3	2.50	0.0984	3.8 - 3.1	45.0	6.30
A2053.15X8.0	3.15	0.1240	4.6 - 3.9	50.0	8.00
A2054.0X10.0	4.00	0.1575	5.9 - 5.0	55.0	10.00
A2055.0X12.5	5.00	0.1969	7.2 - 6.3	63.0	12.50

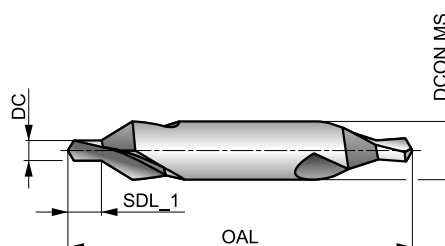


# A206



## Foret à centrer en HSS-E avec pointe à 118° et chanfrein à 60°, finition brillante

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Convient pour le perçage de nombreux matériaux.



HSS-E	DIN 333A	1xD
60°	Bright	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 I	<b>P1.2</b> ■ 45 I	<b>P1.3</b> ■ 46 I	<b>P2.1</b> ■ 34 I	<b>P2.2</b> ■ 30 G	<b>P2.3</b> ■ 27 E	<b>P3.1</b> ■ 24 F	<b>P3.2</b> ■ 19 F	<b>P3.3</b> ■ 16 E	<b>P4.1</b> ■ 14 F	<b>P4.2</b> ■ 12 E	<b>P4.3</b> ■ 10 D	<b>M1.1</b> ■ 25 E	<b>M1.2</b> ■ 21 E
<b>M2.1</b> ■ 22 E	<b>M2.2</b> ■ 18 E	<b>M3.1</b> ■ 12 G	<b>M3.2</b> ■ 10 G	<b>M3.3</b> ■ 9 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 36 I	<b>K1.2</b> ■ 27 F	<b>K1.3</b> ■ 20 F	<b>K2.1</b> ■ 30 E	<b>K2.2</b> ■ 24 E	<b>K2.3</b> ■ 19 E	<b>K3.1</b> ■ 26 E	<b>K3.2</b> ■ 20 E
<b>K3.3</b> ■ 16 E	<b>K4.1</b> ■ 24 E	<b>K4.2</b> ■ 18 E	<b>K4.3</b> ■ 13 E	<b>K4.4</b> ■ 11 E	<b>K4.5</b> ■ 10 E	<b>K5.1</b> ■ 27 E	<b>K5.2</b> ■ 21 E	<b>K5.3</b> ■ 16 E	<b>N1.1</b> ■ 40 J	<b>N1.2</b> ■ 30 J	<b>N1.3</b> ■ 20 I	<b>N2.1</b> ■ 49 H	<b>N2.2</b> ■ 44 H
<b>N2.3</b> ■ 32 H	<b>N3.1</b> ■ 68 H	<b>N3.2</b> ■ 40 I	<b>N3.3</b> ■ 20 G	<b>N4.1</b> ■ 36 J	<b>N4.2</b> ■ 34 H	<b>N4.3</b> ■ 17 F	<b>S1.1</b> ■ 29 F	<b>S1.2</b> ■ 16 D	<b>S1.3</b> ■ 18 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 7 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 5 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 4 A												

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)			
A2061.0X3.15	1.00	0.0394	1.7 - 1.3	31.0	3.15
A2061.25X3.15	1.25	0.0492	2.0 - 1.6	31.0	3.15
A2061.6X4.0	1.60	0.0630	2.6 - 2.0	35.0	4.00
A2062.0X5.0	2.00	0.0787	3.1 - 2.5	40.0	5.00
A2062.5X6.3	2.50	0.0984	3.8 - 3.1	45.0	6.30
A2063.15X8.0	3.15	0.1240	4.6 - 3.9	50.0	8.00
A2064.0X10.0	4.00	0.1575	5.9 - 5.0	55.0	10.00
A2065.0X12.5	5.00	0.1969	7.2 - 6.3	63.0	12.50

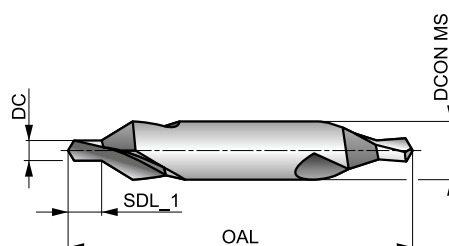


# A266

**DORMER**

## Foret à centrer en HSS-E avec pointe à 118° et chanfrein à 60°, revêtement TiAlN

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Le revêtement TiAlN améliore les performances et prolonge la durée de vie de l'outil. Convient pour le perçage de nombreux matériaux.



HSS-E	DIN 333A	1xD
60°	TiAlN	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 40 I	<b>P1.2</b> ■ 45 I	<b>P1.3</b> ■ 46 I	<b>P2.1</b> ■ 34 I	<b>P2.2</b> ■ 30 G	<b>P2.3</b> ■ 27 E	<b>P3.1</b> ■ 24 F	<b>P3.2</b> ■ 19 F	<b>P3.3</b> ■ 16 E	<b>P4.1</b> ■ 14 F	<b>P4.2</b> ■ 12 E	<b>P4.3</b> ■ 10 D	<b>M1.1</b> ■ 25 E	<b>M1.2</b> ■ 21 E
<b>M2.1</b> ■ 22 E	<b>M2.2</b> ■ 18 E	<b>M3.1</b> ■ 12 G	<b>M3.2</b> ■ 10 G	<b>M3.3</b> ■ 9 G	<b>M4.1</b> ■ 12 C	<b>K1.1</b> ■ 36 I	<b>K1.2</b> ■ 27 F	<b>K1.3</b> ■ 20 F	<b>K2.1</b> ■ 30 E	<b>K2.2</b> ■ 24 E	<b>K2.3</b> ■ 19 E	<b>K3.1</b> ■ 26 E	<b>K3.2</b> ■ 20 E
<b>K3.3</b> ■ 16 E	<b>K4.1</b> ■ 24 E	<b>K4.2</b> ■ 18 E	<b>K4.3</b> ■ 13 E	<b>K4.4</b> ■ 11 E	<b>K4.5</b> ■ 10 E	<b>K5.1</b> ■ 27 E	<b>K5.2</b> ■ 21 E	<b>K5.3</b> ■ 16 E	<b>N1.1</b> ■ 40 J	<b>N1.2</b> ■ 30 J	<b>N1.3</b> ■ 20 I	<b>N2.1</b> ■ 49 H	<b>N2.2</b> ■ 44 H
<b>N2.3</b> ■ 32 H	<b>N3.1</b> ■ 68 H	<b>N3.2</b> ■ 40 I	<b>N3.3</b> ■ 20 G	<b>N4.1</b> ■ 36 J	<b>N4.2</b> ■ 34 H	<b>N4.3</b> ■ 17 F	<b>S1.1</b> ■ 29 F	<b>S1.2</b> ■ 16 D	<b>S1.3</b> ■ 8 B	<b>S2.1</b> ■ 8 E	<b>S2.2</b> ■ 7 A	<b>S3.1</b> ■ 6 E	<b>S3.2</b> ■ 5 A
<b>S4.1</b> ■ 5 E	<b>S4.2</b> ■ 4 A												

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)			
A2661.0X3.15	1.00	0.0394	1.7 - 1.3	31.0	3.15
A2661.25X3.15	1.25	0.0492	2.0 - 1.6	31.0	3.15
A2661.6X4.0	1.60	0.0630	2.6 - 2.0	35.0	4.00
A2662.0X5.0	2.00	0.0787	3.1 - 2.5	40.0	5.00
A2662.5X6.3	2.50	0.0984	3.8 - 3.1	45.0	6.30
A2663.15X8.0	3.15	0.1240	4.6 - 3.9	50.0	8.00
A2664.0X10.0	4.00	0.1575	5.9 - 5.0	55.0	10.00
A2665.0X12.5	5.00	0.1969	7.2 - 6.3	63.0	12.50



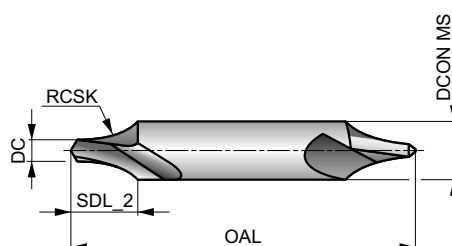
# A210

**DORMER**



## Foret à centrer en HSS avec pointe à 118° et chanfrein concave, finition brillante

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Peut être utilisé pour usiner un certain nombre de matériaux.



HSS	DIN 333R	1xD
R	Bright	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 17 B	<b>S2.1</b> ■ 17 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	SDL_2	OAL	RCSR	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
A210.5X3.15 <sup>1)</sup>	0.50	0.0197	2.6 - 2.3	25.0	2.50 - 2.00	3.15
A210.8X3.15 <sup>1)</sup>	0.80	0.0315	2.9 - 2.6	25.0	3.15 - 2.50	3.15
A2101.0X3.15	1.00	0.0394	3.3 - 3.0	31.0	3.65 - 2.90	3.15
A2101.25X3.15	1.25	0.0492	3.6 - 3.3	31.0	3.95 - 3.15	3.15
A2101.6X4.0	1.60	0.0630	4.7 - 4.2	35.0	5.00 - 4.00	4.00
A2102.0X5.0	2.00	0.0787	5.4 - 5.0	40.0	6.25 - 5.00	5.00
A2102.5X6.3	2.50	0.0984	6.8 - 6.3	45.0	7.88 - 6.30	6.30
A2103.15X8.0	3.15	0.1240	8.5 - 8.0	50.0	10.00 - 8.00	8.00
A2104.0X10.0	4.00	0.1575	10.6 - 10.0	55.0	12.50 - 10.00	10.00
A2105.0X12.5	5.00	0.1969	13.1 - 12.5	63.0	15.63 - 12.50	12.50
A2106.3X16.0	6.30	0.2480	16.6 - 16.0	71.0	20.00 - 16.00	16.00
A2108.0X20.0	8.00	0.3150	20.7 - 20.0	80.0	25.00 - 20.00	20.00
A21010.0X25.0	10.00	0.3937	25.7 - 25.0	100.0	31.25 - 25.00	25.00

<sup>1)</sup> Une seule pointe.

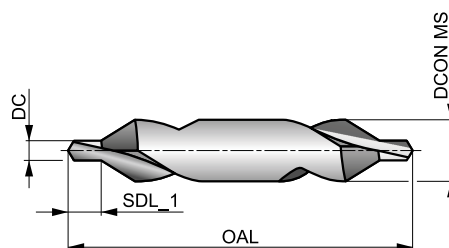


# A201

**DORMER**

## Foret à centrer en HSS avec pointe à 122° et chanfrein à 60°, finition brillante

Foret à centrer avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Convient pour le perçage de nombreux matériaux.



HSS	DORMER	1xD
60°	Bright	
R	122°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

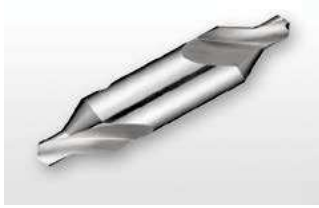
<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 7 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)			
A201.63X3.15 <sup>1)</sup>	0.63	0.0248	1.2 - 0.9	20.0	3.15
A201.75X3.5	0.75	0.0295	1.3 - 1.0	35.0	3.50
A2011.0X4.0	1.00	0.0394	2.1 - 1.5	35.0	4.00
A2011.5X5.0	1.50	0.0591	2.8 - 2.0	40.0	5.00
A2011.6X5.0	1.60	0.0630	2.4 - 2.0	40.0	5.00
A2012.0X6.0	2.00	0.0787	4.0 - 3.0	45.0	6.00
A2012.0X6.3	2.00	0.0787	2.9 - 2.5	45.0	6.30
A2012.5X8.0	2.50	0.0984	4.5 - 3.5	50.0	8.00
A2013.0X8.0	3.00	0.1181	4.4 - 3.9	50.0	8.00
A2013.0X10.0	3.00	0.1181	5.0 - 4.0	56.0	10.00
A2013.15X10.0	3.15	0.1240	4.4 - 3.9	56.0	10.00
A2014.0X12.0	4.00	0.1575	6.2 - 5.0	66.0	12.00
A2015.0X14.0	5.00	0.1969	7.7 - 6.5	78.0	14.00
A2016.0X18.0	6.00	0.2362	9.2 - 8.0	90.0	18.00

<sup>1)</sup> Une seule pointe.

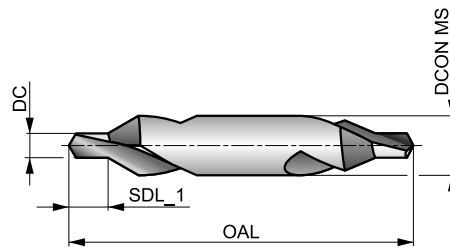


# A225



## Foret à centrer en HSS avec pointe à 120° et chanfrein à 60°, finition brillante

Foret à centrer à la norme britannique 328 avec deux extrémités de perçage qui permettent d'augmenter la productivité par outil. Convient pour le perçage de nombreux matériaux.



HSS	BS 328	1×D
60°	Bright	
R	120°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 17 B	<b>S2.1</b> ■ 17 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Les produits de cette série sont également disponibles en coffret. Voir A296.

Produit	Nr.	DC (inch)	DC (inch)	SDL_1 (inch)	OAL (inch)	D CONMS (inch)
A225BS1	BS1	3/64	0.0469	5/64 - 1/16	1.1/2	1/8
A225BS2	BS2	1/16	0.0625	3/32 - 5/64	1.3/4	3/16
A225BS3	BS3	3/32	0.0938	5/32 - 1/8	2"	1/4
A225BS4	BS4	1/8	0.1250	3/16 - 5/32	2.1/4	5/16
A225BS5	BS5	3/16	0.1875	9/32 - 1/4	2.1/2	7/16
A225BS5A	BSSA	7/32	0.2188	5/16 - 9/32	2.3/4	1/2
A225BS6	BS6	1/4	0.2500	3/8 - 5/16	3"	5/8
A225BS7	BS7	5/16	0.3125	15/32 - 13/32	3.1/2	3/4





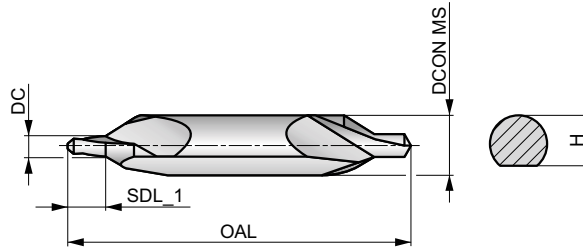
# A237

**DORMER**



## Foret à centrer en HSS-E (5% cobalt), pointe à 118°, chanfrein à 60°, finition brillante

Foret à centrer avec deux extrémités de perçage qui augmentent la productivité par outil. Il a une finition brillante et convient pour percer de nombreux matériaux.



HSS-E	DIN 333A	1xD
60°	Bright	H
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 7 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	SDL_1	OAL	DCON MS	H
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
<b>A2371.6X4.0</b>	1.60	0.0630	2.6 - 2.0	35.0	4.00	3.25 - 3.15
<b>A2372.0X5.0</b>	2.00	0.0787	3.1 - 2.5	40.0	5.00	4.20 - 4.10
<b>A2372.5X6.3</b>	2.50	0.0984	3.8 - 3.1	45.0	6.30	5.35 - 5.25
<b>A2373.15X8.0</b>	3.15	0.1240	4.6 - 3.9	50.0	8.00	6.95 - 6.85
<b>A2374.0X10.0</b>	4.00	0.1575	5.9 - 5.0	55.0	10.00	8.40 - 8.30
<b>A2375.0X12.5</b>	5.00	0.1969	7.2 - 6.3	63.0	12.50	10.95 - 10.85
<b>A2376.3X16.0</b>	6.30	0.2480	8.9 - 8.0	71.0	16.00	14.00 - 13.90
<b>A2378.0X20.0</b>	8.00	0.3150	11.1 - 10.1	80.0	20.00	17.90 - 17.80
<b>A23710.0X25.0</b>	10.00	0.3937	13.8 - 12.8	100.0	25.00	22.50 - 22.40

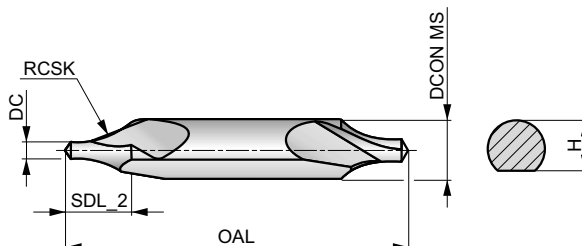


# A238



## Foret à centrer en HSS-E (5% Co), pointe à 118°, chnafrein concave, finition brillante

Foret à centrer avec deux extrémités de perçage qui augmentent la productivité par outil. Convient pour percer de nombreux matériaux. Finition brillante et peut être utilisé avec des adaptateurs de chanfreinage spéciaux.



HSS-E	DIN 333R	1xD
R	Bright	H
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 17 B	<b>S2.1</b> ■ 17 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	SDL_2	OAL	RCSK	DCON MS	H
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
A2381.6X4.0	1.60	0.0630	4.7 - 4.2	35.0	5.00 - 4.00	4.00	3.25 - 3.15
A2382.0X5.0	2.00	0.0787	5.4 - 5.0	40.0	6.25 - 5.00	5.00	4.20 - 4.10
A2382.5X6.3	2.50	0.0984	6.8 - 6.3	45.0	7.88 - 6.30	6.30	5.35 - 5.25
A2383.15X8.0	3.15	0.1240	8.5 - 8.0	50.0	10.00 - 8.00	8.00	6.95 - 6.85
A2384.0X10.0	4.00	0.1575	10.6 - 10.0	55.0	12.50 - 10.00	10.00	8.40 - 8.30
A2385.0X12.5	5.00	0.1969	13.1 - 12.5	63.0	15.63 - 12.50	12.50	10.95 - 10.85
A2386.3X16.0	6.30	0.2480	16.6 - 16.0	71.0	20.00 - 16.00	16.00	14.00 - 13.90
A2388.0X20.0	8.00	0.3150	20.7 - 20.0	80.0	25.00 - 20.00	20.00	17.90 - 17.80

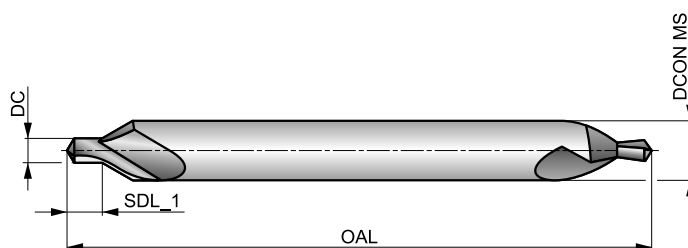


# A242

**DORMER**

## Foret à centrer long en HSS-E (5% Co), pointe à 118°, chanfrein à 60°, finition brillante

Foret à centrer avec deux extrémités de perçage qui augmentent la productivité par outil. Convient pour percer de nombreux matériaux.



HSS-E		1xD
60°	Bright	
R	118°	

Adéquation du groupe de matériaux de la pièce, valeurs de départ pour la vitesse de coupe (m/min) et code Alpha d'avance. Les tableaux d'avances par tour se trouvent à partir de la page 175.

<b>P1.1</b> ■ 33 I	<b>P1.2</b> ■ 37 I	<b>P1.3</b> ■ 38 I	<b>P2.1</b> ■ 28 I	<b>P2.2</b> ■ 25 G	<b>P2.3</b> ■ 22 E	<b>P3.1</b> ■ 19 F	<b>P3.2</b> ■ 15 F	<b>P3.3</b> ■ 13 E	<b>P4.1</b> ■ 11 F	<b>P4.2</b> ■ 10 E	<b>P4.3</b> ■ 8 D	<b>M1.1</b> ■ 21 E	<b>M1.2</b> ■ 17 E
<b>M2.1</b> ■ 18 E	<b>M2.2</b> ■ 15 E	<b>M3.1</b> ■ 9 G	<b>M3.2</b> ■ 8 G	<b>M3.3</b> ■ 7 G	<b>M4.1</b> ■ 10 C	<b>K1.1</b> ■ 30 I	<b>K1.2</b> ■ 22 F	<b>K1.3</b> ■ 17 F	<b>K2.1</b> ■ 25 E	<b>K2.2</b> ■ 20 E	<b>K2.3</b> ■ 16 E	<b>K3.1</b> ■ 22 E	<b>K3.2</b> ■ 17 E
<b>K3.3</b> ■ 13 E	<b>K4.1</b> ■ 20 E	<b>K4.2</b> ■ 15 E	<b>K4.3</b> ■ 11 E	<b>K4.4</b> ■ 10 E	<b>K4.5</b> ■ 8 E	<b>K5.1</b> ■ 23 E	<b>K5.2</b> ■ 17 E	<b>K5.3</b> ■ 13 E	<b>N1.1</b> ■ 33 J	<b>N1.2</b> ■ 25 J	<b>N1.3</b> ■ 17 I	<b>N2.1</b> ■ 42 H	<b>N2.2</b> ■ 37 H
<b>N2.3</b> ■ 27 H	<b>N3.1</b> ■ 56 H	<b>N3.2</b> ■ 33 I	<b>N3.3</b> ■ 17 G	<b>N4.1</b> ■ 30 J	<b>N4.2</b> ■ 28 H	<b>N4.3</b> ■ 14 F	<b>S1.1</b> ■ 24 F	<b>S1.2</b> ■ 13 D	<b>S1.3</b> ■ 7 B	<b>S2.1</b> ■ 7 E	<b>S2.2</b> ■ 6 A	<b>S3.1</b> ■ 5 E	<b>S3.2</b> ■ 4 A
<b>S4.1</b> ■ 4 E	<b>S4.2</b> ■ 3 A												

Produit	DC	DC	SDL_1	OAL	DCON MS
	(mm)	(inch)	(mm)	(mm)	(mm)
A2421.0X4.0	1.00	0.0394	1.7 - 1.3	100.0	4.00
A2421.5X5.0	1.50	0.0591	2.6 - 2.0	100.0	5.00
A2422.0X6.0	2.00	0.0787	3.1 - 2.5	100.0	6.00
A2422.5X8.0	2.50	0.0984	3.8 - 3.1	100.0	8.00
A2423.0X8.0	3.00	0.1181	4.6 - 3.9	100.0	8.00
A2423.0X10.0	3.00	0.1181	4.6 - 3.9	100.0	10.00
A2424.0X10.0	4.00	0.1575	5.9 - 5.0	100.0	10.00
A2424.0X12.0	4.00	0.1575	5.9 - 5.0	100.0	12.00
A2425.0X12.0	5.00	0.1969	7.2 - 6.3	100.0	12.00