suttontools

HSS DRILLS

▪ Stub Series ▪ Jobber Series ▪ Long Series
▪ Extra Long Series ▪ Spotting

ISO	VDI	Material Group	Sutton	
P	A	Steel	N	UNI
M	R	Stainless Steel	VA	
K	F	Cast Iron	GG	
N	N	Non-Ferrous Metals, Aluminiums & Coppers	Al W	
S	S	Titaniums & Super Alloys	Ti	Ni
H	H	Hard Materials (≥ 45 HRC)	H	

^ VDI 3323 material groups can also be determined by referring to the material cross reference listing in the application guide at the back of this catalogue.

	D101	D102	D103	D179	D109	D163	D165	D168	D182	D180	D169
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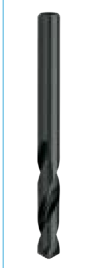
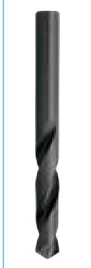
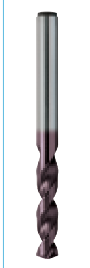
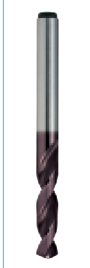
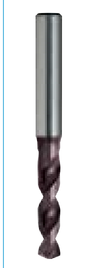
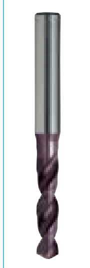
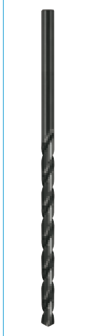
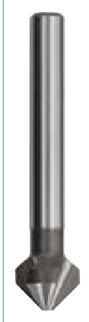
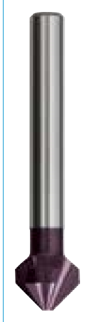
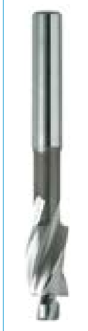
Catalogue Code	D101	D102	D103	D179	D109	D163	D165	D168	D182	D180	D169
Material	HSS				HSS Co	HSS Co	HSS Co	SPM	HSS Co	HSS	HSS Co
Surface Finish	*Brt*	*Blu*	*TiN*	*TiAlN Tip*	*Colour Tmp*	*TiAlN*	*TiAlN*	*TiAlN*	*TiAlN*	*TiAlN Tip*	*TiAlN*
Sutton Designation	N				Hard Mat.	NH	WN	UNI	NH	VA	VA
Standard	DIN 338				DIN 338	DIN 338	DIN 338	~ DIN 338	-	~ DIN 338	
Depth of Cut	≤ 5xØ				≤ 5xØ	≤ 5xØ	≤ 5xØ	≤ 5xØ	≤ 5xØ	≤ 3xØ	≤ 5xØ
Shank Tolerance	h9				-	h9	h9	h7	-	h9	h7

ISO	VDI^ 3323	Material		Condition	HB	N/mm²	D101	D102	D103	D179	D109	D163	D165	D168	D182	D180	D169
P	1	Steel - Non-alloy, cast & free cutting	~ 0.15 %C	A	125	440	●	●	●	●		●	●	●	●	●	●
	2		~ 0.45 %C	A	190	640	●	●	●	●		●	●	●	●	●	○
	3			QT	250	840	○	●	●	●	●	●	●	●	●	○	○
	4		~ 0.75 %C	A	270	910	○	●	●	●	○	●	●	●	●	○	○
	5			QT	300	1010		○	○	○	●	●	○	●	○		
	6	Steel - Low alloy & cast < 5% of alloying elements		A	180	610	●	●	●	●		●	●	●	●	●	○
	7			QT	275	930	○	●	●	●	●	●	○	●	●	○	○
	8			QT	300	1010		○	○	○	●	●	○	●	○		
	9			QT	350	1180		○	○	○	○	○		○	○		
	10	Steel - High alloy, cast & tool		A	200	680	○	●	●	●	○	●	○	●	○		
	11			HT	325	1100		○	○	○	○	○		○	○		
	12	Steel - Corrosion resistant & cast	Ferritic / Martensitic	A	200	680			○	○		○		●	●	○	●
	13		Martensitic	QT	240	810		○	○	○		○		●	○	○	○
M	14.1	Stainless Steel	Austenitic	AH	180	610		○	○	○	○	○	○	○	○	●	●
	14.2		Duplex		250	840		○	○	○	○		○	○	○	●	●
	14.3		Precipitation Hardening		250	840				○		○		●	●	○	●
K	15	Cast Iron - Grey (GG)	Ferritic / Pearlitic		180	610	○	○	●	●	○	●		●	●		
	16		Pearlitic		260	880		○	○	○	○	●		●	●		
	17	Cast Iron - Nodular (GGG)	Ferritic		160	570	○	○	●	●	○	●		●	●		
	18		Pearlitic		250	840		○	○	○	○	●		●	●		
	19	Cast Iron - Malleable	Ferritic		130	460		○	●	●	○	●		●	●		
	20		Pearlitic		230	780		○	○	○	○	●		●	●		
N	21	Aluminum & Magnesium - wrought alloy	Non Heat Treatable		60	210	●	○					●	○	○	●	○
	22		Heat Treatable	AH	100	360	●	○					●	○	○	●	○
	23	Aluminum & Magnesium - cast alloy ≤12% Si	Non Heat Treatable		75	270	○		○	○		○	●	●	●	●	○
	24		Heat Treatable	AH	90	320	○		○	○		●	●	●	●	●	○
	25	Al & Mg - cast alloy >12% Si	Non Heat Treatable		130	460	○		○	○		●	○	●	○		
	26	Copper & Cu alloys (Brass/Bronze)	Free cutting, Pb > 1%		110	390	○		○	○		○	●	○	○	○	○
	27		Brass (CuZn, CuSnZn)		90	320	○		○	○	●	○	○	●	●		
	28		Bronze (CuSn)		100	360	○		○	○			●	●	●	○	○
	29	Non-metallic - Thermosetting & fiber-reinforced plastics					○	○	○	○		○	○	○	○	○	
	30	Non-metallic - Hard rubber, wood etc.															
S	31	High temp. alloys	Fe based	A	200	680									○		
	32			AH	280	950									○		
	33		Ni / Co based	A	250	840								○	○		
	34			AH	350	1180									○		
	35			C	320	1080									○		
	36	Titanium & Ti alloys	CP Titanium		400 MPa										○		
	37.1		Alpha alloys		860 MPa									○	○		○
	37.2		Alpha / Beta alloys	A	960 MPa										○		○
	37.3			AH	1170 MPa										○		
	37.4		Beta alloys	A	830 MPa										○		○
	37.5			AH	1400 MPa										○		
H	38.1	Hardened steel		HT	45 HRC						○			○	○		
	38.2			HT	55 HRC												
	39.1			HT	58 HRC												
	39.2			HT	62 HRC												
	40	Cast Iron	Chilled	C	400	1350	○	○	○	○	○	●		●	●		
	41			HT	55 HRC												

Condition: **A** (Annealed), **AH** (Age Hardened), **C** (Cast), **HT** (Hardened & Tempered), **QT** (Quenched & Tempered)

● Optimal ○ Effective

107	109	111	114	116	119	123	128	148	148	149	VDI 3323	ISO
												
D186	D100	D151	D177	D155	D153	D113	D171	C107	C108	C100		
HSS	HSS	HSS Co	HSS Co	SPM	HSS Co	HSS	HSS Co	HSS Co		HSS Co		
Blu	*Blu*	*TiAlN*	*TiAlN*	*TiAlN*	*TiAlN*	*Blu*	*TiAlN*	*Brt*	*TiAlN*	*Brt*		
N	N	NH	WN	UNI	VA	N	NH	N	UNI	N		
DIN 1897	ANSI B94-11	DIN 1897	DIN 1897	~ DIN 1897		ANSI B94-11	DIN 340	DIN 335		DIN 373		
≤ 3xØ	≤ 3xØ	≤ 3xØ	≤ 3xØ	≤ 3xØ	≤ 3xØ	8xØ	8xØ	-		-		
-	-	h9	h9	h7	h7	h9	h9	h9		h6		
●	●	●	●	●	●	●	●	●	●	●	1	P
●	●	●	●	●	○	●	●	●	●	●	2	
●	●	●	●	●	○	●	●	●	●	○	3	
●	●	●	●	●	○	●	●	●	●	○	4	
○	○	●	○	●			●	○	●	○	5	
●	●	●	●	●	○	●	●	●	●	●	6	
●	●	●	○	●	○	○	●	●	●	○	7	
○	○	●	○	●			●	○	●	○	8	
		○		○			○		○	○	9	
●	●	●	○	●		○	●	○	●	○	10	
		○		○			○		○	○	11	
		○		●	●		○	○	●	○	12	
		○		○	○		○		●	○	13	
○	○	○	○	○	●	○	○	●	●	○	14.1	M
○	○	○	○	○	●			●	●	○	14.2	
		●	○	●	●		○	○	●	○	14.3	
○	○	●		●		○	●	●	●	●	15	K
○	○	●		●		○	●	○	●	○	16	
○	○	●		●		○	●	●	●	○	17	
○	○	●		●		○	●	●	●	○	18	
○	○	●		●		○	●	○	●	○	19	
○	○	●		●		○	●		●	○	20	
○	○		●	○	●	○		●	○	○	21	N
○	○		●	○	●	○		●	○	○	22	
		●	●	●	●		○	●	●	○	23	
		●	●	●	●		●	●	●	○	24	
		●	○				●	○	●		25	
		○	●	○	●		○	●	●	○	26	
		○	○	●			○	○	●		27	
		○	●	○	●			○	●	○	28	
○	○	○	○	○	○		○	○	○		29	
											30	
								○	○		31	S
								○	○		32	
				○				○	○		33	
									○		34	
									○		35	
								○	○		36	
				○	○			○	○		37.1	
					○			○	○		37.2	
									○		37.3	
					○			○	○		37.4	
									○		37.5	
				○							38.1	H
											38.2	
											39.1	
											39.2	
○	○	●		●		○	●	●	●	○	40	
											41	

ISO	VDI	Material Group	Sutton	
P	A	Steel	N	
M	R	Stainless Steel	VA	UNI
K	F	Cast Iron	GG	UNI
N	N	Non-Ferrous Metals, Aluminiums & Coppers	Al W	
S	S	Titaniums & Super Alloys	Ti	Ni
H	H	Hard Materials (≥ 45 HRC)	H	

^ VDI 3323 material groups can also be determined by referring to the material cross reference listing in the application guide at the back of this catalogue.

	D194	D195	D196	D115	D141	D140	D142	D118	D120	D188
Page	130	131	132	133	137	139	141	141	142	142
Catalogue Code	D194	D195	D196	D115	D141	D140	D142	D118	D120	D188
Material	HSS Co			HSS	HSS Co	HSS	-	Alloy	HSS	
Surface Finish	TiAlN			Blu	Colour Tmp	Blu	Brt	Brt	Blu	
Sutton Designation	NH			N	Tough Materials	N	Adaptor		N	
Standard	DIN 1869-1	DIN 1869-2	DIN 1869-3	DIN 345	DIN 345	DIN 341	-		-	
Depth of Cut	≤ 10xØ	≤ 12xØ	≤ 14xØ	≤ 5xØ	≤ 5xØ	≤ 8xØ	-		≤ 5xØ	
Shank Tolerance	h9			-	-	-	-		-	

ISO	VDI^ 3323	Material		Condition	HB	N/mm²	D194	D195	D196	D115	D141	D140	D142	D118	D120	D188
P	1	Steel - Non-alloy, cast & free cutting	~ 0.15 %C	A	125	440	●	●	●	●	●	●			●	●
P	2		~ 0.45 %C	A	190	640	●	●	●	●	●	●			●	●
P	3			QT	250	840	●	●	●	○	●	○			○	○
P	4		~ 0.75 %C	A	270	910	●	●	●	○	●	○			○	○
P	5			QT	300	1010	●	●	●	○	○	○			○	○
P	6	Steel - Low alloy & cast < 5% of alloying elements		A	180	610	●	●	●	○	●	○			●	●
P	7			QT	275	930	●	●	●	○	●	○			○	○
P	8			QT	300	1010	●	●	●	○	○	○			○	○
P	9			QT	350	1180	○	○	○							
P	10	Steel - High alloy, cast & tool		A	200	680	●	●	●	○	○	○			○	○
P	11			HT	325	1100	○	○	○							
P	12	Steel - Corrosion resistant & cast	Ferritic / Martensitic	A	200	680	○	○	○		○					
P	13		Martensitic	QT	240	810	○	○	○							
M	14.1	Stainless Steel	Austenitic	AH	180	610	○	○	○	○	●	○			○	○
M	14.2		Duplex		250	840					●	○			○	○
M	14.3		Precipitation Hardening		250	840	○	○	○		○					
K	15	Cast Iron - Grey (GG)	Ferritic / Pearlitic		180	610	●	●	●	○	●	○			○	○
K	16		Pearlitic		260	880	●	●	●	○	○	○				
K	17	Cast Iron - Nodular (GGG)	Ferritic		160	570	●	●	●	○	●	○			○	○
K	18		Pearlitic		250	840	●	●	●	○	○	○				
K	19	Cast Iron - Malleable	Ferritic		130	460	●	●	●	○	●	○			○	○
K	20		Pearlitic		230	780	●	●	●	○	○	○				
N	21	Aluminum & Magnesium - wrought alloy	Non Heat Treatable		60	210					○				●	●
N	22		Heat Treatable	AH	100	360					○				●	●
N	23	Aluminum & Magnesium - cast alloy ≤12% Si	Non Heat Treatable		75	270	○	○	○		○				○	○
N	24		Heat Treatable	AH	90	320	●	●	●		○				○	○
N	25	Al & Mg - cast alloy >12% Si	Non Heat Treatable		130	460	●	●	●							
N	26	Copper & Cu alloys (Brass/Bronze)	Free cutting, Pb > 1%		110	390	○	○	○		○				○	○
N	27		Brass (CuZn, CuSnZn)		90	320	○	○	○		○				○	○
N	28		Bronze (CuSn)		100	360					○				○	○
N	29	Non-metallic - Thermosetting & fiber-reinforced plastics					○	○	○							
N	30	Non-metallic - Hard rubber, wood etc.														
S	31	High temp. alloys	Fe based	A	200	680										
S	32			AH	280	950										
S	33		Ni / Co based	A	250	840										
S	34			AH	350	1180										
S	35			C	320	1080										
S	36	Titanium & Ti alloys	CP Titanium		400 MPa											
S	37.1		Alpha alloys		860 MPa											
S	37.2		Alpha / Beta alloys	A	960 MPa											
S	37.3			AH	1170 MPa											
S	37.4		Beta alloys	A	830 MPa											
S	37.5			AH	1400 MPa											
H	38.1	Hardened steel		HT	45 HRC											
H	38.2			HT	55 HRC											
H	39.1			HT	58 HRC											
H	39.2			HT	62 HRC											
H	40	Cast Iron	Chilled	C	400	1350	●	●	●	○	●	○			○	○
H	41			HT	55 HRC											

Condition: **A** (Annealed), **AH** (Age Hardened), **C** (Cast), **HT** (Hardened & Tempered), **QT** (Quenched & Tempered)

● Optimal ○ Effective

144	145	144	145	144	145	145	146	146	147	147		
D121	D122	D127	D128	D124	D125	D130	D135	D136	D175	D176		
HSS						HSS Co	HSS		HSS Co			
Brt		*TiN*		*Blu*		*Colour Tmp*	*Brt*		*TiN*			
Non Ferrous		Tough Materials		Ferrous		Tough Steels	N		NC			
-							DIN 333	ANSI B94-11	DIN 1897			
-							-		-			
-							-		h9			
											VDI^ 3323	ISO
●	●	●	●	●	●	●	●	●	●	●	1	
●	●	●	●	●	●	●	●	●	●	●	2	
○	○	●	●	●	●	●	○	○	●	●	3	
○	○	●	●	●	●	●	○	○	●	●	4	
		○	○			○			○	○	5	
●	●	●	●	●	●	●	●	●	●	●	6	
		●	●	●	●	●			●	●	7	P
		○	○			○			○	○	8	
						○					9	
		○	○	○	○	●			○	○	10	
						○					11	
		○	○			○			○	○	12	
						○			○	○	13	
○	○	●	●	○	○	○	○	○	●	●	14.1	
○	○	○	○	○	○	○	○	○	●	●	14.2	M
		○	○						○	○	14.3	
○	○	●	●	●	●	○	○	○	●	●	15	
		○	○						○	○	16	
○	○	●	●	●	●	○	○	○	●	●	17	K
									○	○	18	
		○	○			○			○	○	19	
		○	○			○			○	○	20	
●	●	○	○				○	○	●	●	21	
●	●	○	○				○	○	●	●	22	
○	○	○	○				○	○	●	●	23	
○	○	○	○				○	○	●	●	24	
		○	○						○	○	25	
○	○	○	○				○	○	●	●	26	N
		○							○	○	27	
○	○	○	○				○	○	●	●	28	
		○	○				○	○	○	○	29	
											30	
									○	○	31	
									○	○	32	
									○	○	33	
									○	○	34	
											35	
											36	S
									○	○	37.1	
									○	○	37.2	
											37.3	
									○	○	37.4	
											37.5	
									○	○	38.1	
											38.2	
											39.1	H
											39.2	
○	○	●	●	○	○	○			○	○	40	
											41	

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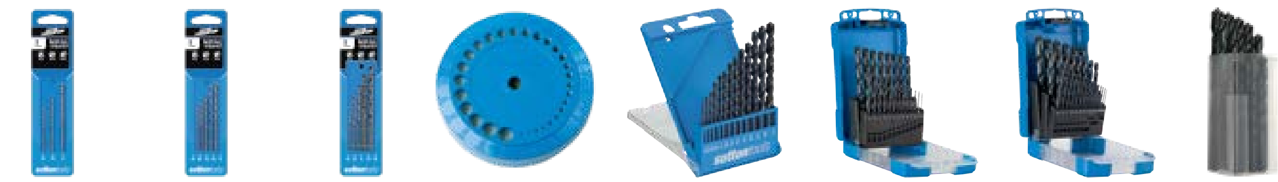
D101 SM1 | D101 SM2 | D101 SM3 | D101 MTLSM2 | D101 MTLSM3 | D101 SM30 | D101 SM41

D101 SRKM2 | D101 SRKM3 | D101 SM8 | D101 SM7

D102 SM1 | D102 SM2 | D102 SM3 | D102 SM30 | D102 SM41 | D102 SM8 | D102 SM99

D179 SM2 | D179 SM3 | D103 SM3 | D180 SM2 | D180 SM3 | D109 SM2 | D109 SM3

D101 S1 | D101 S2 | D101 S3 | D101 MTLS2 | D101 MTLS3 | D101 S30 | D101 S31



D101 SRK1 | D101 SRK2 | D101 SRK3 | D101 S7 | D102 S1 | D102 S2 | D102 S3 | D102 S8

D179 S2 | D179 S3 | D103 S3 | D109 S2 | D109 S3

suttontools

Drills Sets

- Various combinations available
- Metric and Imperial

Coffrets de Foretss
- Nombreuses combinaisons
- Metrique et Inch

Set di Punte
- Disponibile in varie comninazione
- Metrico e Pollici

Sets de Brocas
- Varias combinaciones disponibles
- Métrico e Imperial

DIN 338 | ANSI B94-11 | 5xd1

				D101	D102	D179	D103	D180	D109
Catalogue Code				D101	D102	D179	D103	D180	D109
Discount Group				A1202	A1202	A1202	A1216	A1202	A0404
Material				HSS	HSS	HSS	HSS	HSS	HSS Co
Surface Finish				Brt	Blu	TiAlN Tip	TiN	TiAlN Tip	Colour Temp
Sutton Designation				N	N	N	N	N	Tough Materials
Geometry				R30	R30	R30	R30	R40	R25
Point Type				118° Standard	118° Standard	118° Form C	118° Form A	130° Standard	135° Form C
Shank Tolerance				-	-	-	-	-	-
Size Ref.	**Range**	**Case**	**Pieces**	**Item #**	**Item #**	**Item #**	**Item #**	**Item #**	**Item #**
	Metric (DIN 338)								
SM1	1.5 – 6.5mm x 0.5 + 3.2, 4.8mm	ABS	13	D101 SM1	D102 SM1				
SM1	1.0 – 6.5mm x 0.5	ABS	12						
SM2	1.0 – 10.0mm x 0.5	ABS	19	D101 SM2	D102 SM2	D179 SM2		D180 SM2	D109 SM2
SM3	1.0 – 13.0mm x 0.5	ABS	25	D101 SM3	D102 SM3	D179 SM3	D103 SM3	D180 SM3	D109 SM3
SM8	1.0 – 3.0mm x 0.25, 3.5 – 13.0mm x 0.5	Plastic	29	D101 SM8	D102 SM8				
SM30	1.0mm – 5.9mm x 0.1	Metal	50	D101 SM30	D102 SM30	D179 SM30		D180 SM30	
SM41	6,0mm – 10.0mm x 0.1	Metal	41	D101 SM41	D102 SM41	D179 SM41		D180 SM41	
SM99	1.0 – 10.0mm x 0.1 (+ 10.5, 10.9, 11.0, 11.5, 11.9, 12.0, 12.5, 12.9, 13.0mm)	Plastic	100		D102 SM99				
	Refill Kits								
SRKM2	1.5mm – 3.5mm x 0.5mm	Tray	5	D101 SRKM2					
SRKM3	1.5, 2.0, 3.0, 4.0, 5.0mm	Tray	5	D101 SRKM3					
	Drill Stands Discount Group Z0204								
SM7	1.0 – 3.0mm x 0.25, 3.5 – 13.0mm x 0.5	Metal	1	D101 SM7					
	Imperial (ANSI B94-11)								
S1	1/16 – 1/4 x 1/64	ABS	13	D101 S1	D102 S1				
S2	1/16 – 3/8 x 1/64	ABS	21	D101 S2	D102 S2				D109 S2
S3	1/16 – 1/2 x 1/64	ABS	29	D101 S3	D102 S3	D179 S3	D103 S3		D109 S3
S8	1/16 – 1/2 x 64ths	Plastic	29		D102 S8				
S30	#1 – #60 Wire Gauge	Metal	60	D101 S30					
S31	#61 – #80 Wire Gauge	Metal	20	D101 S31					
	Refill Kits								
SRK1	1/16, 3/32, 1/8	Tray	3	D101 SRK1					
SRK2	1/16 – 1/8 x 1/64	Tray	5	D101 SRK2					
SRK3	1/16 – 3/16 x 1/32	Tray	5	D101 SRK3					
	Drill Stands Discount Group Z0204								
S7	1/16 – 1/2 x 64ths	Metal	1	D101 S7					

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D180	●	●	○	○		●	○					○	○	●	●	○						
D109			●	○	●		●	●	○	○	○			○	○		○	○	○	○	○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D179			○	○	○	○	○	○	○																	○	
D103			○	○	○	○	○	○	○																	○	
D180	●	●	●	●		○		○	○																		
D109							●															○				○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

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Drills Jobber

suttontools

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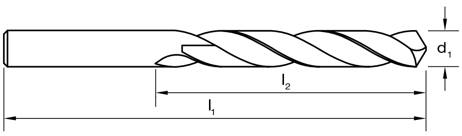
- Diseñado para máquinas y taladrado manual.

DIN 338 | ANSI B94-11 | 5xd1 | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Standard	118° Standard	118° Form A	118° Form C
Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0034	0.34	80	19	3	D101 0034	•	•	
0035	0.35		19	4	D101 0035	•	•	
0037	0.37	79	19	3	D101 0037	•	•	
0038	0.38		19	4	D101 0038	•	•	
0039	0.40	1/64	19	5	D101 0039	•		
0040	0.40		20	5	D101 0040	•	•	
0041	0.41	78	22	5	D101 0041	•	•	
0042	0.42		20	5	D101 0042	•	•	
0045	0.45		20	5	D101 0045	•	•	
0046	0.46	77	22	5	D101 0046	•	•	
0048	0.48		20	5	D101 0048	•	•	
0050	0.50		22	6	D101 0050	•	•	
0051	0.51	76	22	5	D101 0051	•	•	
0052	0.52		22	6	D101 0052	•	•	
0053	0.53	75	25	6	D101 0053	•	•	
0055	0.55		24	7	D101 0055	•	•	
0057	0.57	74	25	6	D101 0057	•	•	
0060	0.60		24	7	D101 0060	•	•	
0061	0.61	73	29	8	D101 0061	•	•	
0063	0.63	72	29	8	D101 0063	•	•	
0065	0.65		26	8	D101 0065	•	•	
0066	0.66	71	32	10	D101 0066	•	•	
0070	0.70		28	9	D101 0070	•	•	
0071	0.71	70	32	10	D101 0071	•	•	
0074	0.74	69	35	13	D101 0074	•	•	
0075	0.75		28	9	D101 0075	•	•	
0078	0.79	68	35	13	D101 0078	•	•	
0079	0.79	1/32	35	13	D101 0079	•		
0080	0.80		30	10	D101 0080	•	•	
0081	0.81	67	35	13	D101 0081	•	•	

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D101	●	●	○	○		●	○			○			
D102	●	●	●	●	○	●	●	○	○	●	○		○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D101				○		○			
D102	○	○		○	○	○	○	○	○
D103	○	○		●	○	●	○	●	○
D179	○	○	○	●	○	●	○	●	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D101	●	●	○	○	○	○	○	○	○	
D102	○	○							○	
D103			○	○	○	○	○	○	○	
D179			○	○	○	○	○	○	○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101																○	
D102																○	
D103																○	
D179																○	

P Steel | M Stainless Steel | K Cast Iron | N Non-Ferrous Metals | S Titanium & Super Alloys | H Hard Materials

● Optimal ○ Effective

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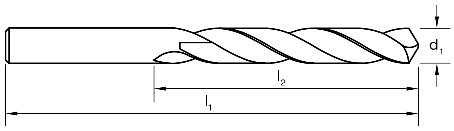

	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Standard	118° Standard	118° Form A	118° Form C
Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0084	0.84	66	35	13	D101 0084	•	•	
0085	0.85		30	10	D101 0085	•	•	
0089	0.89	65	38	16	D101 0089	•	•	
0090	0.90		32	11	D101 0090	•	•	
0091	0.91	64	38	16	D101 0091	•	•	
0094	0.94	63	38	16	D101 0094	•	•	
0095	0.95		32	11	D101 0095	•	•	
0096	0.96	62	38	16	D101 0096	•	•	
0099	0.99	61	41	17	D101 0099	•	•	
0100	1.00		34	12	D101 0100	D102 0100	D103 0100	D179 0100
0102	1.02	60	41	17	D101 0102	•	•	
0104	1.04	59	41	17	D101 0104	•	•	
0105	1.05		34	12	D101 0105	D102 0105		
0107	1.07	58	41	17	D101 0107	•		
0109	1.09	57	44	19	D101 0109	•		
0110	1.10		36	14	D101 0110	D102 0110		D179 0110
0115	1.15		36	14	D101 0115	D102 0115		
0118	1.18	56	44	19	D101 0118	•		
0119	1.19	3/64	44	19	D101 0119	D102 0119		D179 0119
0120	1.20		38	16	D101 0120	D102 0120		D179 0120
0125	1.25		38	16	D101 0125	D102 0125		
0130	1.30		38	16	D101 0130	D102 0130		D179 0130
0132	1.32	55	48	22	D101 0132	•		
0135	1.35		38	16	D101 0135	D102 0135		
0139	1.40	54	48	22	D101 0139	•		
0140	1.40		40	18	D101 0140	D102 0140		D179 0140
0145	1.45		40	18	D101 0145	D102 0145		
0150	1.50		40	18	D101 0150	D102 0150	D103 0150	D179 0150
0151	1.51	53	48	22	D101 0151	•		
0155	1.55		40	18	D101 0155	D102 0155		

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

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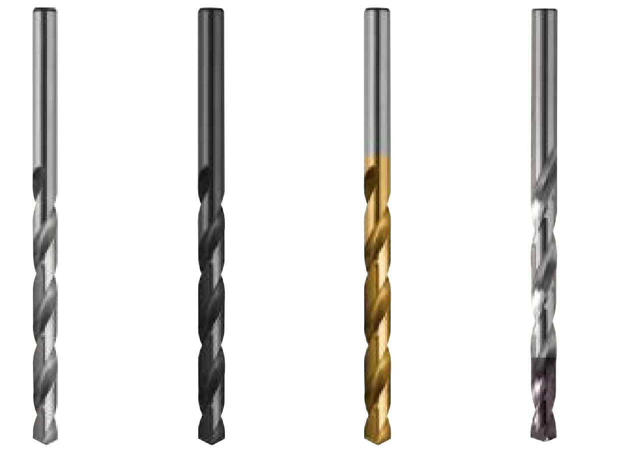

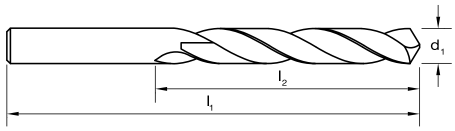

Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Standard	118° Standard	118° Form A	118° Form C
Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0159	1.59	1/16	48	22	D101 0159	D102 0159		D179 0159
0160	1.60		43	20	D101 0160	D102 0160		D179 0160
0161	1.61	52	48	22	D101 0161	•		
0165	1.65		43	20	D101 0165	D102 0165		
0170	1.70		43	20	D101 0170	D102 0170		D179 0170
0171	1.70	51	51	25	D101 0171	•		
0175	1.75		43	20	D101 0175	D102 0175		
0178	1.78	50	51	25	D101 0178	•		
0180	1.80		46	22	D101 0180	D102 0180		D179 0180
0185	1.85		46	22	D101 0185	D102 0185		
0184	1.85	49	51	25	D101 0184	•		
0190	1.90		46	22	D101 0190	D102 0190		D179 0190
0193	1.93	48	51	25	D101 0193	•		
0195	1.95		46	22	D101 0195	D102 0195		
0198	1.98	5/64	51	25	D101 0198	D102 0198		D179 0198
0199	1.99	47	51	25	D101 0199	•		
0200	2.00		49	24	D101 0200	D102 0200	D103 0200	D179 0200
0205	2.05		49	24	D101 0205	D102 0205		
0206	2.06	46	54	29	D101 0206	•		
0208	2.08	45	54	29	D101 0208	•		
0210	2.10		49	24	D101 0210	D102 0210		D179 0210
0215	2.15		49	24	D101 0215	D102 0215		
0218	2.18	44	54	29	D101 0218	•		
0220	2.20		53	27	D101 0220	D102 0220		D179 0220
0225	2.25		53	27	D101 0225	D102 0225		
0226	2.26	43	57	32	D101 0226	•		
0230	2.30		53	27	D101 0230	D102 0230		D179 0230
0235	2.35		53	27	D101 0235	D102 0235		
0237	2.37	42	57	32	D101 0237	•		
0238	2.38	3/32	57	32	D101 0238	D102 0238		D179 0238

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○		●	○			○							○		○				●	●	○	○	○	○	○	○	○																	○	
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○	○	○							○																	○	
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○			○	○	○	○	○	○	○																	○	
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○			○	○	○	○	○	○	○																	○	

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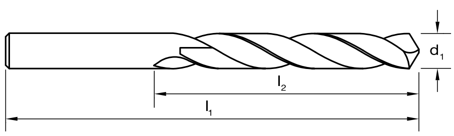
- Diseñado para máquinas y taladrado manual.

DIN 338 | ANSI B94-11 | 5xd$_1$ | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A > 4mm†	118° Form A > 4mm†	118° Form A	118° Form C
Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d$_1$ (h8) mm	d$_1$ (h8) gauge	l$_1$	l$_2$	Item #	Item #	Item #	Item #
0240	**2.40**		57	30	D101 0240	D102 0240		D179 0240
0244	2.44	**41**	60	35	D101 0244	•		
0245	**2.45**		57	30	D101 0245	D102 0245		
0249	2.49	**40**	60	35	D101 0249	•		
0250	**2.50**		57	30	D101 0250	D102 0250	D103 0250	D179 0250
0253	2.53	**39**	60	35	D101 0253	•		
0255	**2.55**		57	30	D101 0255	D102 0255		
0258	2.58	**38**	64	37	D101 0258	•		
0260	**2.60**		57	30	D101 0260	D102 0260		D179 0260
0264	2.64	**37**	64	37	D101 0264	•		
0265	**2.65**		57	30	D101 0265	D102 0265		
0270	**2.70**		61	33	D101 0270	D102 0270		D179 0270
0271	2.70	**36**	64	37	D101 0271	•		
0275	**2.75**		61	33	D101 0275	D102 0275		
0278	2.78	**7/64**	67	38	D101 0278	D102 0278		D179 0278
0279	2.79	**35**	67	38	D101 0279	•		
0280	**2.80**		61	33	D101 0280	D102 0280		D179 0280
0282	2.82	**34**	67	38	D101 0282	•		
0285	**2.85**		61	33	D101 0285	D102 0285		
0287	2.87	**33**	67	38	D101 0287	•		
0290	**2.90**		61	33	D101 0290	D102 0290		D179 0290
0294	2.95	**32**	70	41	D101 0294	•		
0295	**2.95**		61	33	D101 0295	D102 0295		
0300	**3.00**		61	33	D101 0300	D102 0300	D103 0300	D179 0300
0305	3.05	**31**	70	41	D101 0305	•		
0310	**3.10**		65	36	D101 0310	D102 0310		D179 0310
0318	3.18	**1/8**	70	41	D101 0318	D102 0318		D179 0318
0320	**3.20**		65	36	D101 0320	D102 0320		D179 0320
0325	**3.25**		65	36	•	•		
0326	3.26	**30**	70	41	D101 0326	•		

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○		●	○			○							○		○				●	●	○	○	○	○	○	○	○																	○	
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○	○	○							○																	○	
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○			○	○	○	○	○	○	○																	○	
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○			○	○	○	○	○	○	○																	○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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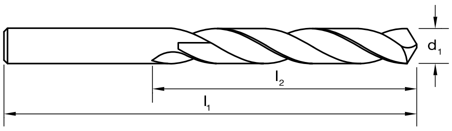
DIN 338 | ANSI B94-11 | $5xd_1$ | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0330	**3.30**		65	36	D101 0330	D102 0330		D179 0330
0340	**3.40**		70	39	D101 0340	D102 0340		D179 0340
0345	3.45	**29**	73	44	D101 0345	•		
0350	**3.50**		70	39	D101 0350	D102 0350	D103 0350	D179 0350
0356	3.57	**28**	73	44	D101 0356	•		
0357	3.57	**9/64**	73	44	D101 0357	D102 0357		D179 0357
0360	**3.60**		70	39	D101 0360	D102 0360		D179 0360
0366	3.66	**27**	76	48	D101 0366	•		
0370	**3.70**		70	39	D101 0370	D102 0370		D179 0370
0373	3.73	**26**	76	48	D101 0373	•		
0375	**3.75**		75	43	•	D102 0375		
0379	3.80	**25**	76	48	D101 0379	•		
0380	**3.80**		75	43	D101 0380	D102 0380		D179 0380
0386	3.86	**24**	79	51	D101 0386	•		
0390	**3.90**		75	43	D101 0390	D102 0390		D179 0390
0391	3.91	**23**	79	51	D101 0391	•		
0397	3.97	**5/32**	79	51	D101 0397	D102 0397		D179 0397
0399	3.99	**22**	79	51	D101 0399	•		
0400	**4.00**		75	43	D101 0400	D102 0400	D103 0400	D179 0400
0404	4.04	**21**	83	54	D101 0404	•		
0409	4.09	**20**	83	54	D101 0409	•		
0410	**4.10**		75	43	D101 0410	D102 0410		D179 0410
0420	**4.20**		75	43	D101 0420	D102 0420		D179 0420
0422	4.22	**19**	83	54	D101 0422	•		
0425	**4.25**		75	43	•	D102 0425		
0430	**4.30**		80	47	D101 0430	D102 0430		D179 0430
0431	4.30	**18**	83	54	D101 0431	•		
0437	4.37	**11/64**	83	54	D101 0437	D102 0437		D179 0437
0439	4.39	**17**	86	56	D101 0439	•		
0440	**4.40**		80	47	D101 0440	D102 0440		D179 0440

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

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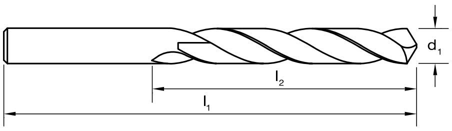
DIN 338 | ANSI B94-11 | 5xd₁ | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Standard	118° Standard	118° Form A†	118° Form C
Order Quantity	Bulk 10 (5 > 7.5mm)	Bulk 10 (5 > 7.5mm)	1	Bulk 10 (5 > 7.5mm)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0449	4.50	16	86	56	D101 0449	•		
0450	4.50		80	47	D101 0450	D102 0450	D103 0450	D179 0450
0457	4.57	15	86	56	D101 0457	•		
0460	4.60		80	47	D101 0460	D102 0460		D179 0460
0462	4.62	14	86	56	D101 0462	•		
0469	4.70	13	89	59	D101 0469	•		
0470	4.70		80	47	D101 0470	D102 0470		D179 0470
0475	4.75		80	47	•	D102 0475		
0476	4.76	3/16	89	59	D101 0476	D102 0476		D179 0476
0480	4.80		86	52	D101 0480	D102 0480		D179 0480
0481	4.80	12	89	59	D101 0481	•		
0485	4.85	11	89	59	D101 0485	•		
0490	4.90		86	52	D101 0490	D102 0490		D179 0490
0491	4.91	10	92	62	D101 0491	•		
0498	4.98	9	92	62	D101 0498	•		
0500	5.00		86	52	D101 0500	D102 0500	D103 0500	D179 0500
0506	5.05	8	92	62	D101 0506	•		
0510	5.10		86	52	D101 0510	D102 0510		D179 0510
0511	5.10	7	92	62	D101 0511	•		
0516	5.16	13/64	92	62	D101 0516	D102 0516		D179 0516
0518	5.18	6	95	64	D101 0518	•		
0520	5.20		86	52	D101 0520	D102 0520		D179 0520
0522	5.22	5	95	64	D101 0522	•		
0525	5.25		86	52	•	D102 0525		
0530	5.30		86	52	D101 0530	D102 0530		D179 0530
0531	5.31	4	95	64	D101 0531	•		
0540	5.40		93	57	D101 0540	D102 0540		D179 0540
0541	5.41	3	95	64	D101 0541	•		
0550	5.50		93	57	D101 0550	D102 0550	D103 0550	D179 0550
0556	5.56	7/32	95	64	D101 0556	D102 0556		D179 0556

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D101	●	●	○	○		●	○			○			
D102	●	●	●	●	○	●	●	○	○	●	○		○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D101				○		○			
D102	○	○		○	○	○	○	○	○
D103	○	○		●	○	●	○	●	○
D179	○	○	○	●	○	●	○	●	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D101	●	●	○	○	○	○	○	○	○	
D102	○	○							○	
D103			○	○	○	○	○	○	○	
D179			○	○	○	○	○	○	○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101																○	
D102																○	
D103																○	
D179																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

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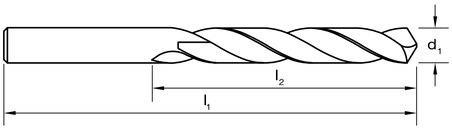
DIN 338 · ANSI B94-11 · 5xd1 · A · C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	5 (1 > 13mm)	5 (1 > 13mm)	1	5 (1 > 13mm)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0560	5.60		93	57	D101 0560	D102 0560		D179 0560
0561	5.61	2	98	67	D101 0561	•		
0570	5.70		93	57	D101 0570	D102 0570		D179 0570
0575	5.75		93	57	•	D102 0575		
0579	5.79	1	98	67	D101 0579	•		
0580	5.80		93	57	D101 0580	D102 0580		D179 0580
0590	5.90		93	57	D101 0590	D102 0590		D179 0590
0595	5.95	15/64	98	67	D101 0595	D102 0595		D179 0595
0600	6.00		93	57	D101 0600	D102 0600	D103 0600	D179 0600
0610	6.10		101	63	D101 0610	D102 0610		D179 0610
0620	6.20		101	63	D101 0620	D102 0620		D179 0620
0625	6.25		101	63	•	D102 0625		
0630	6.30		101	63	D101 0630	D102 0630		D179 0630
0635	6.35	1/4	102	70	D101 0635	D102 0635		D179 0635
0640	6.40		101	63	D101 0640	D102 0640		D179 0640
0650	6.50		101	63	D101 0650	D102 0650	D103 0650	D179 0650
0660	6.60		101	63	D101 0660	D102 0660		D179 0660
0670	6.70		101	63	D101 0670	D102 0670		D179 0670
0675	6.75		109	69		D102 0675		
0676	6.75	17/64	105	73	D101 0676	D102 0676		D179 0676
0680	6.80		109	69	D101 0680	D102 0680		D179 0680
0690	6.90		109	69	D101 0690	D102 0690		D179 0690
0700	7.00		109	69	D101 0700	D102 0700	D103 0700	D179 0700
0710	7.10		109	69	D101 0710	D102 0710		D179 0710
0714	7.14	9/32	108	75	D101 0714	D102 0714		D179 0714
0720	7.20		109	69	D101 0720	D102 0720		D179 0720
0725	7.25		109	69	•	D102 0725		
0730	7.30		109	69	D101 0730	D102 0730		D179 0730
0740	7.40		109	69	D101 0740	D102 0740		D179 0740
0750	7.50		109	69	D101 0750	D102 0750	D103 0750	D179 0750

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

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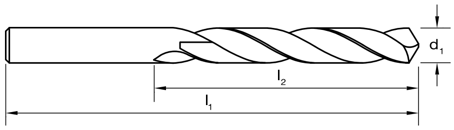
DIN 338 | ANSI B94-11 | 5xd1 | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	1	1	1	1

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0754	7.54	19/64	111	78	D101 0754	D102 0754		D179 0754
0760	7.60		117	75	D101 0760	D102 0760		D179 0760
0770	7.70		117	75	D101 0770	D102 0770		D179 0770
0775	7.75		117	75	•	D102 0775		
0780	7.80		117	75	D101 0780	D102 0780		D179 0780
0790	7.90		117	75	D101 0790	D102 0790		D179 0790
0794	7.94	5/16	114	81	D101 0794	D102 0794		D179 0794
0800	8.00		117	75	D101 0800	D102 0800	D103 0800	D179 0800
0810	8.10		117	75	D101 0810	D102 0810		D179 0810
0820	8.20		117	75	D101 0820	D102 0820		D179 0820
0825	8.25		117	75	•	D102 0825		
0830	8.30		117	75	D101 0830	D102 0830		D179 0830
0833	8.33	21/64	117	84	D101 0833	D102 0833		D179 0833
0840	8.40		117	75	D101 0840	D102 0840		D179 0840
0850	8.50		117	75	D101 0850	D102 0850	D103 0850	D179 0850
0860	8.60		125	81	D101 0860	D102 0860		D179 0860
0870	8.70		125	81	D101 0870	D102 0870		D179 0870
0873	8.73	11/32	121	87	D101 0873	D102 0873		D179 0873
0875	8.75		125	81	•	D102 0875		
0880	8.80		125	81	D101 0880	D102 0880		D179 0880
0890	8.90		125	81	D101 0890	D102 0890		D179 0890
0900	9.00		125	81	D101 0900	D102 0900	D103 0900	D179 0900
0910	9.10		125	81	D101 0910	D102 0910		D179 0910
0913	9.13	23/64	124	89	D101 0913	D102 0913		D179 0913
0920	9.20		125	81	D101 0920	D102 0920		D179 0920
0925	9.25		125	81	•	D102 0925		
0930	9.30		125	81	D101 0930	D102 0930		D179 0930
0940	9.40		125	81	D101 0940	D102 0940		D179 0940
0950	9.50		125	81	D101 0950	D102 0950	D103 0950	D179 0950
0953	9.52	3/8	127	92	D101 0953	D102 0953		D179 0953

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

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Drills Jobber

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- General purpose drill
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Punte da trapano
- Punta Universale
- Nocciolo assottigliato per facilitare la foratura
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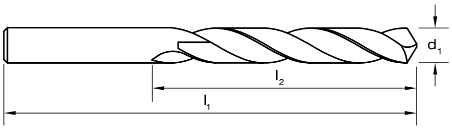
Brocas Jobber
- Taladro de uso general
- Punta reducida para penetración más fácil.
- División de punta para penetración más fácil.
- Diseñado para máquinas y taladrado manual.

DIN 338 | ANSI B94-11 | 5xd₁ | A | C



Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	5 (1 > 13mm)	5 (1 > 13mm)	1	5 (1 > 13mm)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
0960	9.60		133	87	D101 0960	D102 0960		D179 0960
0970	9.70		133	87	D101 0970	D102 0970		D179 0970
0975	9.75		133	87	•	D102 0975		
0980	9.80		133	87	D101 0980	D102 0980		D179 0980
0990	9.90		133	87	D101 0990	D102 0990		D179 0990
0992	9.92	25/64	130	95	D101 0992	D102 0992		D179 0992
1000	10.00		133	87	D101 1000	D102 1000	D103 1000	D179 1000
1010	10.10		133	87	D101 1010	D102 1010		D179 1010
1020	10.20		133	87	D101 1020	D102 1020		D179 1020
1025	10.25		133	87	•	D102 1025		
1030	10.30		133	87	D101 1030	D102 1030		D179 1030
1032	10.32	13/32	133	98	D101 1032	D102 1032		D179 1032
1040	10.40		133	87	D101 1040	D102 1040		D179 1040
1050	10.50		133	87	D101 1050	D102 1050	D103 1050	D179 1050
1060	10.60		133	87	D101 1060	D102 1060		D179 1060
1070	10.70		142	94	D101 1070	D102 1070		D179 1070
1072	10.72	27/64	137	100	D101 1072	D102 1072		D179 1072
1075	10.75		142	94	•	D102 1075		
1080	10.80		142	94	D101 1080	D102 1080		D179 1080
1090	10.90		142	94	D101 1090	D102 1090		D179 1090
1100	11.00		142	94	D101 1100	D102 1100	D103 1100	D179 1100
1110	11.10		142	94	D101 1110	D102 1110		D179 1110
1111	11.11	7/16	140	103	D101 1111	D102 1111		D179 1111
1120	11.20		142	94	D101 1120	D102 1120		D179 1120
1125	11.25		142	94	•	D102 1125		
1130	11.30		142	94	D101 1130	D102 1130		D179 1130
1140	11.40		142	94	D101 1140	D102 1140		D179 1140
1150	11.50		142	94	D101 1150	D102 1150	D103 1150	D179 1150
1151	11.51	29/64	143	106	D101 1151	D102 1151		D179 1151
1160	11.60		142	94	D101 1160	D102 1160		D179 1160

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

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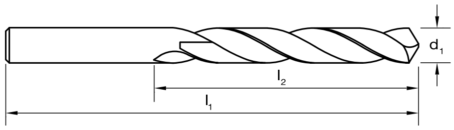
DIN 338 · ANSI B94-11 · 5xd1 · A · C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	1	1	1	1

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
1170	11.70		142	94	D101 1170	D102 1170		D179 1170
1175	11.75		142	94	•	D102 1175		
1180	11.80		142	94	D101 1180	D102 1180		D179 1180
1190	11.90		142	94	D101 1190	D102 1190		D179 1190
1191	11.91	15/32	146	110	D101 1191	D102 1191		D179 1191
1200	12.00		151	101	D101 1200	D102 1200	D103 1200	D179 1200
1210	12.10		151	101	D101 1210	D102 1210		D179 1210
1220	12.20		151	101	D101 1220	D102 1220		D179 1220
1225	12.25		151	101	•	D102 1225		
1230	12.30		151	101	D101 1230	D102 1230		D179 1230
1231	12.30	31/64	149	111	D101 1231	D102 1231		D179 1231
1240	12.40		151	101	D101 1240	D102 1240		D179 1240
1250	12.50		151	101	D101 1250	D102 1250		D179 1250
1260	12.60		151	101	D101 1260	D102 1260		D179 1260
1269	12.70	1/2	152	114	D101 1269	D102 1269		D179 1269
1270	12.70		151	101	D101 1270	D102 1270		D179 1270
1275	12.75		151	101	•	D102 1275		
1280	12.80		151	101	D101 1280	D102 1280		D179 1280
1290	12.90		151	101	D101 1290	D102 1290		D179 1290
1300	13.00		151	101	D101 1300	D102 1300	D103 1300	D179 1300
1310	13.10	33/64	151	101	•	D102 1310		D179 1310
1320	13.20		151	101	•	D102 1320		
1349	13.49	17/32	160	108	•	D102 1349		D179 1349
1350	13.50		160	108		D102 1350		D179 1350
1380	13.80		160	108	•	D102 1380		
1389	13.89	35/64	160	108	•	D102 1389		
1400	14.00		160	108	•	D102 1400		D179 1400
1425	14.25		169	114	•	D102 1425		
1429	14.29	9/16	169	114	•	D102 1429		D179 1429
1450	14.50		169	114	•	D102 1450		D179 1450

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D101	●	●	○	○		●	○			○							○		○			
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○	○	○	○	○	○																	○	
D102	○	○							○																	○	
D103			○	○	○	○	○	○	○																	○	
D179			○	○	○	○	○	○	○																	○	

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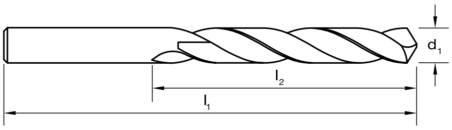
DIN 338 | ANSI B94-11 | 5xd1 | A | C



	D101	D102	D103	D179
Catalogue Code	D101	D102	D103	D179
Discount Group	A0402	A0402	A0420	A0402
Material	HSS	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN	TiAlN Tip
Sutton Designation	N	N	N	N
Geometry	R30	R30	R30	R30
Point Type	118° Form A†	118° Form A†	118° Form A†	118° Form C
Order Quantity	5 (1 > 13mm)	5 (1 > 13mm)	1	5 (1 > 13mm)

Size Ref.	d_1 (h8) mm	gauge	l_1	l_2	Item #	Item #	Item #	Item #
1468	14.68	37/64	169	114	•	D102 1468		
1475	14.75		169	114	•	D102 1475		
1500	15.00		169	114	•	D102 1500		D179 1500
1508	15.08	19/32	178	120	•	D102 1508		
1525	15.25		178	120	•	D102 1525		
1548	15.48	39/64	178	120	•	D102 1548		
1550	15.50		178	120	•	D102 1550		D179 1550
1575	15.75		178	120	•	D102 1575		
1588	15.88	5/8	178	120	•	D102 1588		D179 1588
1600	16.00		178	120	•	D102 1600		D179 1600
1627	16.27	41/64	184	125	•	D102 1627		
1667	16.67	21/32	184	125	•	D102 1667		
1707	17.07	43/64	191	130	•	D102 1707		
1746	17.46	11/16	191	130	•	D102 1746		

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D101	●	●	○	○		●	○			○							○		○				●	●	○	○	○	○	○	○	○																	○	
D102	●	●	●	●	○	●	●	○	○	●	○		○	○	○		○	○	○	○	○	○	○	○							○																	○	
D103	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		●	○	●	○	●	○			○	○	○	○	○	○	○																	○	
D179	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○			○	○	○	○	○	○	○																	○	

P Steel | M Stainless Steel | K Cast Iron | N Non-Ferrous Metals | S Titanium & Super Alloys | H Hard Materials

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Drills Jobber, *Heavy Duty*

suttontools HEAVY DUTY COBALT

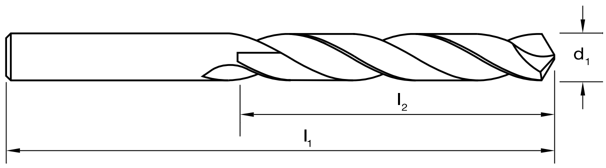
- Heavy duty design
- Cobalt content ensures high abrasion resistance
- Suitable for hard materials up to 850N/mm²
- Self centring 135° split point

Foretss queue cylindrique haute résistance
- Outils pour haute résistance
- Hss- Cobalt pour les aciers à haute résistance, résisistance à l'abrasion
- Utilisable dans les aciers jusqu'à 850N/mm²
- Auto centrant avec sa pointe et son affûtage 135°

Punte da trapano, Heavy Duty
- Design resistente
- Contiene Cobalto per assicurare alta resistenza all'abrasione
- Ideale per materiali duri fino a 850N/mm²
- Auto centraggio con elica a 135°

Brocas Jobber, Trabajos Pesados
- Diseño robusto
- Contenido en cobalto, que garantiza una alta resistencia a la abrasión.
- Adecuado para materiales duros de hasta 850N/mm²
- Punta autocentrante de 135 °

DIN 338 | ANSI B94-11 | 5xd₁

Catalogue Code	D109
Discount Group	A0404
Material	HSS Co
Surface Finish	*Colour Temp*
Sutton Designation	**Hard Materials**
Geometry	R25
Point Type	135° Form C > 3/32*
Order Quantity	10

Size Ref.	d_1 (h8) mm	d_1 (h8) inch	l_1	l_2	Item #
0100	**1.00***		34	12	D109 0100
0110	**1.10***		36	14	D109 0110
0120	**1.20***		38	16	D109 0120
0130	**1.30***		38	16	D109 0130
0140	**1.40***		40	18	D109 0140
0150	**1.50***		40	18	D109 0150
0159	1.59*	**1/16**	48	22	D109 0159
0160	**1.60***		43	20	D109 0160
0170	**1.70***		43	20	D109 0170
0180	**1.80***		46	22	D109 0180
0190	**1.90***		46	22	D109 0190
0200	**2.00***		49	24	D109 0200
0210	**2.10***		49	24	D109 0210
0220	**2.20***		53	27	D109 0220
0230	**2.30***		53	27	D109 0230
0238	2.38*	**3/32**	57	32	D109 0238
0240	**2.40***		57	30	D109 0240
0250	**2.50**		57	30	D109 0250
0260	**2.60**		57	30	D109 0260
0270	**2.70**		61	33	D109 0270
0280	**2.80**		61	33	D109 0280
0290	**2.90**		61	33	D109 0290
0300	**3.00**		61	33	D109 0300
0310	**3.10**		65	36	D109 0310
0318	3.18	**1/8**	70	41	D109 0318
0320	**3.20**		65	36	D109 0320
0330	**3.30**		65	36	D109 0330
0340	**3.40**		70	39	D109 0340
0350	**3.50**		70	39	D109 0350
0357	3.57	**9/64**	73	44	D109 0357
0360	**3.60**		70	39	D109 0360
0370	**3.70**		70	39	D109 0370
0380	**3.80**		75	43	D109 0380
0390	**3.90**		75	43	D109 0390
0397	3.97	**5/32**	79	51	D109 0397
0400	**4.00**		75	43	D109 0400
0410	**4.10**		75	43	D109 0410
0420	**4.20**		75	43	D109 0420
0430	**4.30**		80	47	D109 0430
0437	4.37	**11/64**	83	54	D109 0437
0440	**4.40**		80	47	D109 0440
0450	**4.50**		80	47	D109 0450
0460	**4.60**		80	47	D109 0460
0470	**4.70**		80	47	D109 0470
0476	4.76	**3/16**	89	59	D109 0476
0480	**4.80**		86	52	D109 0480
0490	**4.90**		86	52	D109 0490
0500	**5.00**		86	52	D109 0500
0510	**5.10**		86	52	D109 0510
0516	5.16	**13/64**	92	62	D109 0516
0520	**5.20**		86	52	D109 0520
0530	**5.30**		86	52	D109 0530
0540	**5.40**		93	57	D109 0540
0550	**5.50**		93	57	D109 0550
0556	5.56	**7/32**	95	64	D109 0556
0560	**5.60**		93	57	D109 0560

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D109			●	○	●		●	●	○	○	○		

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D109	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D109							●			

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D109												○				○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

* Standard 135° point below 3/32"

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Jobber, *Heavy Duty*

suttontools

HEAVY DUTY COBALT

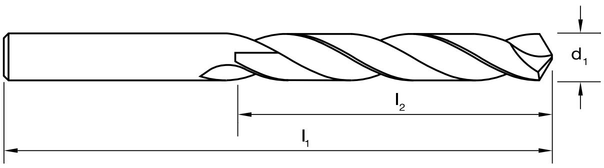
- Heavy duty design
- Cobalt content ensures high abrasion resistance
- Suitable for hard materials up to 850N/mm²
- Self centring 135° split point

Foretss queue cylindrique haute résistance
- Outils pour haute résistance
- Hss- Cobalt pour les aciers à haute résistance, résisistance à l'abrasion
- Utilisable dans les aciers jusqu'à 850N/mm²
- Auto centrant avec sa pointe et son affûtage 135°

Punte da trapano, Heavy Duty
- Design resistente
- Contiene Cobalto per assicurare alta resistenza all'abrasione
- Ideale per materiali duri fino a 850N/mm²
- Auto centraggio con elica a 135°

Brocas Jobber, Trabajos Pesados
- Diseño robusto
- Contenido en cobalto, que garantiza una alta resistencia a la abrasión.
- Adecuado para materiales duros de hasta 850N/mm²
- Punta autocentrante de 135 °

DIN 338 | ANSI B94-11 | 5xd$_1$



Catalogue Code	D109
Discount Group	A0404
Material	HSS Co
Surface Finish	*Colour Temp*
Sutton Designation	**Hard Materials**
Geometry	R25
Point Type	135° Form C
Order Quantity	10 (5 > 7.5mm)

Size Ref.	d$_1$ (h8) mm	inch	l$_1$	l$_2$	Item #
0570	**5.70**		93	57	D109 0570
0580	**5.80**		93	57	D109 0580
0590	**5.90**		93	57	D109 0590
0595	5.95	**15/64**	98	67	D109 0595
0600	**6.00**		93	57	D109 0600
0610	**6.10**		101	63	D109 0610
0620	**6.20**		101	63	D109 0620
0630	**6.30**		101	63	D109 0630
0635	6.35	**1/4**	102	70	D109 0635
0640	**6.40**		101	63	D109 0640
0650	**6.50**		101	63	D109 0650
0660	**6.60**		101	63	D109 0660
0670	**6.70**		101	63	D109 0670
0676	6.75	**17/64**	105	73	D109 0676
0680	**6.80**		109	69	D109 0680
0690	**6.90**		109	69	D109 0690
0700	**7.00**		109	69	D109 0700
0710	**7.10**		109	69	D109 0710
0714	7.14	**9/32**	108	75	D109 0714
0720	**7.20**		109	69	D109 0720
0730	**7.30**		109	69	D109 0730
0740	**7.40**		109	69	D109 0740
0750	**7.50**		109	69	D109 0750
0754	7.54	**19/64**	111	78	D109 0754
0760	**7.60**		117	75	D109 0760
0770	**7.70**		117	75	D109 0770
0780	**7.80**		117	75	D109 0780
0790	**7.90**		117	75	D109 0790

Size Ref.	d$_1$ (h8) mm	inch	l$_1$	l$_2$	Item #
0794	7.94	**5/16**	114	81	D109 0794
0800	**8.00**		117	75	D109 0800
0810	**8.10**		117	75	D109 0810
0820	**8.20**		117	75	D109 0820
0830	**8.30**		117	75	D109 0830
0833	8.33	**21/64**	117	84	D109 0833
0840	**8.40**		117	75	D109 0840
0850	**8.50**		117	75	D109 0850
0860	**8.60**		125	81	D109 0860
0870	**8.70**		125	81	D109 0870
0873	8.73	**11/32**	121	87	D109 0873
0880	**8.80**		125	81	D109 0880
0890	**8.90**		125	81	D109 0890
0900	**9.00**		125	81	D109 0900
0910	**9.10**		125	81	D109 0910
0913	9.13	**23/64**	124	89	D109 0913
0920	**9.20**		125	81	D109 0920
0930	**9.30**		125	81	D109 0930
0940	**9.40**		125	81	D109 0940
0950	**9.50**		125	81	D109 0950
0953	9.52	**3/8**	127	92	D109 0953
0960	**9.60**		133	87	D109 0960
0970	**9.70**		133	87	D109 0970
0980	**9.80**		133	87	D109 0980
0990	**9.90**		133	87	D109 0990
0992	9.92	**25/64**	130	95	D109 0992
1000	**10.00**		133	87	D109 1000
1010	**10.10**		133	87	D109 1010

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D109			●	○	●		●	●	○	○	○		

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D109	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D109							●			

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D109											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D109	○				○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, *Heavy Duty*

suttontools

HEAVY DUTY COBALT

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- Suitable for hard materials up to 850N/mm²
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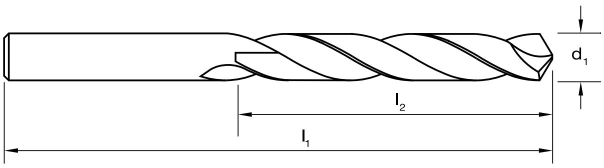
- Outils pour haute résistance
- Hss- Cobalt pour les aciers à haute résistance, résisistance à l'abrasion
- Utilisable dans les aciers jusqu'à 850N/mm²
- Auto centrant avec sa pointe et son affûtage 135°

Punte da trapano, Heavy Duty
- Design resistente
- Contiene Cobalto per assicurare alta resistenza all'abrasione
- Ideale per materiali duri fino a 850N/mm²
- Auto centraggio con elica a 135°

Brocas Jobber, Trabajos Pesados
- Diseño robusto
- Contenido en cobalto, que garantiza una alta resistencia a la abrasión.
- Adecuado para materiales duros de hasta 850N/mm²
- Punta autocentrante de 135 °

DIN 338 | ANSI B94-11 | 5xd₁



Catalogue Code	D109
Discount Group	A0404
Material	HSS Co
Surface Finish	*Colour Temp*
Sutton Designation	**Hard Materials**
Geometry	R25
Point Type	135° Form C
Order Quantity	10 (5 > 7.5mm)

Size Ref.	d_1 (h8) mm	inch	l_1	l_2	Item #
1020	**10.20**		133	87	D109 1020
1030	**10.30**		133	87	D109 1030
1032	10.32	**13/32**	133	98	D109 1032
1040	**10.40**		133	87	D109 1040
1050	**10.50**		133	87	D109 1050
1060	**10.60**		133	87	D109 1060
1070	**10.70**		142	94	D109 1070
1072	10.72	**27/64**	137	100	D109 1072
1080	**10.80**		142	94	D109 1080
1090	**10.90**		142	94	D109 1090
1100	**11.00**		142	94	D109 1100
1111	11.11	**7/16**	140	103	D109 1111
1110	**11.10**		142	94	D109 1110
1120	**11.20**		142	94	D109 1120
1130	**11.30**		142	94	D109 1130
1140	**11.40**		142	94	D109 1140
1150	**11.50**		142	94	D109 1150
1151	11.51	**29/64**	143	106	D109 1151
1160	**11.60**		142	94	D109 1160
1170	**11.70**		142	94	D109 1170
1180	**11.80**		142	94	D109 1180
1190	**11.90**		142	94	D109 1190
1191	11.91	**15/32**	146	110	D109 1191
1200	**12.00**		151	101	D109 1200
1210	**12.10**		151	101	D109 1210
1220	**12.20**		151	101	D109 1220
1230	**12.30**		151	101	D109 1230
1231	12.30	**31/64**	149	111	D109 1231
1240	**12.40**		151	101	D109 1240
1250	**12.50**		151	101	D109 1250
1260	**12.60**		151	101	D109 1260
1269	12.70	**1/2**	152	114	D109 1269
1270	**12.70**		151	101	D109 1270
1280	**12.80**		151	101	D109 1280
1290	**12.90**		151	101	D109 1290
1300	**13.00**		151	101	D109 1300

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D109			●	○	●		●	●	○	○	○		

ISO	M			K						N										
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D109	○	○		○	○	○	○	○	○							●			

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D109												○				○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, DHJ

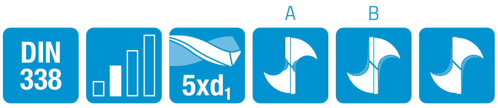
suttontools

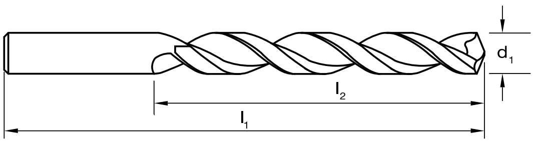
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- TiAlN for longer tool life

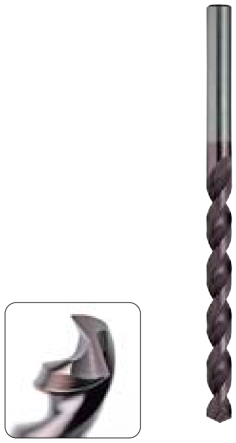
Forets queue cylindrique haute performance DHJ
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 1200N/mm²
- Affûtage 130° pour un parfait centrage
- Lèvres parabolic pour une bonne évacuation copeaux
- Revêtement TiAlN pour une meilleure durée de vie

Punte da trapano, DHJ
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- TiAlN per massimizzare vita utensile

Brocas Jobber, DHJ
- Broca de alto rendimiento
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- TiAlN para una mayor vida útil de la herramienta.







Catalogue Code	D163
Discount Group	A0418
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Point Form	Item #
0100†	1.0	34	13	A	D163 0100
0110†	1.1	36	15	A	D163 0110
0120†	1.2	38	17	A	D163 0120
0130†	1.3	38	17	A	D163 0130
0140†	1.4	40	19	A	D163 0140
0150†	1.5	40	19	A	D163 0150
0160†	1.6	43	21	A	D163 0160
0170†	1.7	43	21	A	D163 0170
0180†	1.8	46	23	A	D163 0180
0190†	1.9	46	23	A	D163 0190
0200†	2.0	49	24	B	D163 0200
0210†	2.1	49	24	B	D163 0210
0220†	2.2	53	28	B	D163 0220
0230†	2.3	53	28	B	D163 0230
0240†	2.4	57	31	B	D163 0240
0250†	2.5	57	31	B	D163 0250
0260†	2.6	57	31	B	D163 0260
0270†	2.7	61	34	B	D163 0270
0280†	2.8	61	34	B	D163 0280
0290†	2.9	61	34	B	D163 0290
0300	3.0	61	33		D163 0300
0310	3.1	65	36		D163 0310
0320	3.2	65	36		D163 0320
0330	3.3	65	36		D163 0330
0340	3.4	70	39		D163 0340
0350	3.5	70	39		D163 0350
0360	3.6	70	39		D163 0360
0370	3.7	70	39		D163 0370

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0380	3.8	75	43	D163 0380
0390	3.9	75	43	D163 0390
0400	4.0	75	43	D163 0400
0410	4.1	75	43	D163 0410
0420	4.2	75	43	D163 0420
0430	4.3	80	47	D163 0430
0440	4.4	80	47	D163 0440
0450	4.5	80	47	D163 0450
0460	4.6	80	47	D163 0460
0470	4.7	80	47	D163 0470
0480	4.8	86	52	D163 0480
0490	4.9	86	52	D163 0490
0500	5.0	86	52	D163 0500
0510	5.1	86	52	D163 0510
0520	5.2	86	52	D163 0520
0530	5.3	86	52	D163 0530
0540	5.4	93	57	D163 0540
0550	5.5	93	57	D163 0550
0560	5.6	93	57	D163 0560
0570	5.7	93	57	D163 0570
0580	5.8	93	57	D163 0580
0590	5.9	93	57	D163 0590
0600	6.0	93	57	D163 0600
0610	6.1	101	63	D163 0610
0620	6.2	101	63	D163 0620
0630	6.3	101	63	D163 0630
0640	6.4	101	63	D163 0640
0650	6.5	101	63	D163 0650

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D163	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D163			○	●	●	○	○		○																	●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

† Sizes <3.0 point type: 130° 4 Facet

NOTE: HB & HE shanks available, subject to lead time.

suttontools

Drills Jobber, DHJ

- High performance drill
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Punte da trapano, DHJ
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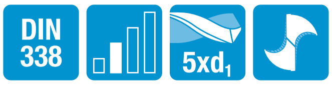

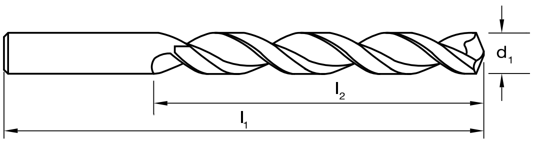

Catalogue Code	D163
Discount Group	A0418
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #	Size Ref.	d_1 (h8)	l_1	l_2	Item #
0660	**6.6**	101	63	D163 0660	0940	**9.4**	125	81	D163 0940
0670	**6.7**	101	63	D163 0670	0950	**9.5**	125	81	D163 0950
0680	**6.8**	109	69	D163 0680	0960	**9.6**	133	87	D163 0960
0690	**6.9**	109	69	D163 0690	0970	**9.7**	133	87	D163 0970
0700	**7.0**	109	69	D163 0700	0980	**9.8**	133	87	D163 0980
0710	**7.1**	109	69	D163 0710	0990	**9.9**	133	87	D163 0990
0720	**7.2**	109	69	D163 0720	1000	**10.0**	133	87	D163 1000
0730	**7.3**	109	69	D163 0730	1010	**10.1**	133	87	•
0740	**7.4**	109	69	D163 0740	1020	**10.2**	133	87	D163 1020
0750	**7.5**	109	69	D163 0750	1030	**10.3**	133	87	•
0760	**7.6**	117	75	D163 0760	1040	**10.4**	133	87	•
0770	**7.7**	117	75	D163 0770	1050	**10.5**	133	87	D163 1050
0780	**7.8**	117	75	D163 0780	1060	**10.6**	133	87	•
0790	**7.9**	117	75	D163 0790	1070	**10.7**	142	94	•
0800	**8.0**	117	75	D163 0800	1080	**10.8**	142	94	D163 1080
0810	**8.1**	117	75	D163 0810	1090	**10.9**	142	94	•
0820	**8.2**	117	75	D163 0820	1100	**11.0**	142	94	D163 1100
0830	**8.3**	117	75	D163 0830	1110	**11.1**	142	94	D163 1110
0840	**8.4**	117	75	D163 0840	1120	**11.2**	142	94	•
0850	**8.5**	117	75	D163 0850	1130	**11.3**	142	94	•
0860	**8.6**	125	81	D163 0860	1140	**11.4**	142	94	•
0870	**8.7**	125	81	D163 0870	1150	**11.5**	142	94	D163 1150
0880	**8.8**	125	81	D163 0880	1160	**11.6**	142	94	•
0890	**8.9**	125	81	D163 0890	1170	**11.7**	142	94	•
0900	**9.0**	125	81	D163 0900	1180	**11.8**	142	94	D163 1180
0910	**9.1**	125	81	D163 0910	1190	**11.9**	151	101	•
0920	**9.2**	125	81	D163 0920	1200	**12.0**	151	101	D163 1200
0930	**9.3**	125	81	D163 0930	1210	**12.1**	151	101	•

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D163	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D163			○	●	●	○	○		○																	●	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, DHJ

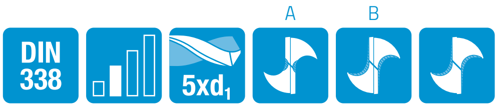
suttontools

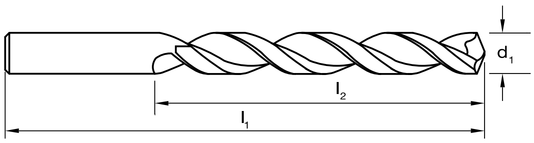
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- TiAlN for longer tool life

Forets queue cylindrique haute performance DHJ
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 1200N/mm²
- Affûtage 130° pour un parfait centrage
- Lèvres parabolic pour une bonne évacuation copeaux
- Revêtement TiAlN pour une meilleure durée de vie

Punte da trapano, DHJ
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- TiAlN per massimizzare vita utensile

Brocas Jobber, DHJ
- Broca de alto rendimiento
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- TiAlN para una mayor vida útil de la herramienta.





Catalogue Code	D163
Discount Group	A0418
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Pieces	Item #
1220	12.2	151	101		D163 1220
1230	12.3	151	101		•
1240	12.4	151	101		•
1250	12.5	151	101		D163 1250
1260	12.6	151	101		•
1270	12.7	151	101		D163 1270
1280	12.8	151	101		•
1290	12.9	151	101		•
1300	13.0	151	101		D163 1300
1350	13.5	160	108		D163 1350
1400	14.0	160	108		D163 1400
1450	14.5	169	114		D163 1450
1500	15.0	169	114		D163 1500
1550	15.5	178	120		D163 1550
1600	16.0	178	120		D163 1600

Size Ref.	d_1 (h8)	l_1	l_2	Item #

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D163	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D163	●	●	●	●	●	●			○	●	●	○	○		○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D163																●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

Drills Jobber, DXJ

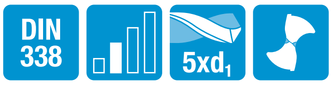
suttontools

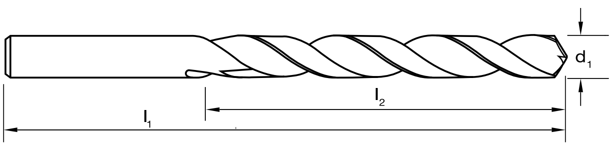
- High performance drill
- Suitable for materials up to 850N/mm²
- Special point geometry with radius cutting lips
- Produces short chips
- TiAlN for longer tool life

Forets queue cylindrique haute performance DXJ
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 850N/mm²
- Affûtage spécial avec rayon de coupe en bout
- Produit des copeaux courts
- Revêtement TiAlN pour une meilleure durée de vie

Punte da trapano, DXJ
- Punta ad alta prestazione
- Ideale per materiali fino a 850N/mm²
- Geometria di punta speciale con labbro di rinforzo tagliente
- Produce trucioli piccoli
- TiAlN per massimizzare vita utensile

Brocas Jobber, DXJ
- Broca de alto rendimiento
- Adecuado para materiales de hasta 800N/mm²
- Geometría de punta especial con labios de corte radial.
- Produce virutas cortas.
- TiAlN para una mayor vida útil de la herramienta.





Catalogue Code	D165
Discount Group	A0418
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	WN
Geometry	R35
Point Type	130° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0100	1.0	34	13	•
0150	1.5	40	19	•
0200	2.0	49	25	•
0250	2.5	57	31	•
0300	3.0	61	33	D165 0300
0310	3.1	65	36	D165 0310
0320	3.2	65	36	D165 0320
0330	3.3	65	36	D165 0330
0340	3.4	70	39	D165 0340
0350	3.5	70	39	D165 0350
0360	3.6	70	39	D165 0360
0370	3.7	70	39	D165 0370
0380	3.8	75	43	D165 0380
0390	3.9	75	43	D165 0390
0400	4.0	75	43	D165 0400
0410	4.1	75	43	D165 0410
0420	4.2	75	43	D165 0420
0430	4.3	80	47	D165 0430
0440	4.4	80	47	D165 0440
0450	4.5	80	47	D165 0450
0460	4.6	80	47	D165 0460
0470	4.7	80	47	D165 0470
0480	4.8	86	52	D165 0480
0490	4.9	86	52	D165 0490
0500	5.0	86	52	D165 0500
0510	5.1	86	52	D165 0510
0520	5.2	86	52	D165 0520
0530	5.3	86	52	D165 0530

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0540	5.4	93	57	D165 0540
0550	5.5	93	57	D165 0550
0560	5.6	93	57	D165 0560
0570	5.7	93	57	D165 0570
0580	5.8	93	57	D165 0580
0590	5.9	93	57	D165 0590
0600	6.0	93	57	D165 0600
0610	6.1	101	63	D165 0610
0620	6.2	101	63	D165 0620
0630	6.3	101	63	D165 0630
0640	6.4	101	63	D165 0640
0650	6.5	101	63	D165 0650
0660	6.6	101	63	D165 0660
0670	6.7	101	63	D165 0670
0680	6.8	109	69	D165 0680
0690	6.9	109	69	D165 0690
0700	7.0	109	69	D165 0700
0710	7.1	109	69	D165 0710
0720	7.2	109	69	D165 0720
0730	7.3	109	69	D165 0730
0740	7.4	109	69	D165 0740
0750	7.5	109	69	D165 0750
0760	7.6	117	75	D165 0760
0770	7.7	117	75	D165 0770
0780	7.8	117	75	D165 0780
0790	7.9	117	75	D165 0790
0800	8.0	117	75	D165 0800
0810	8.1	117	75	D165 0810

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D165	●	●	●	●	○	●	○	○		○				○	○							

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D165	●	●	●	●	○	●	○	●	○																		

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, DXJ

suttontools

- High performance drill
- Suitable for materials up to 850N/mm²
- Special point geometry with radius cutting lips
- Produces short chips
- TiAlN for longer tool life

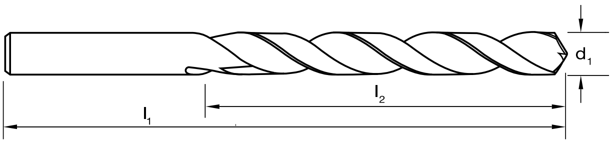
Forets queue cylindrique haute performance DXJ
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 850N/mm²
- Affûtage spécial avec rayon de coupe en bout
- Produit des copeaux courts
- Revêtement TiAlN pour une meilleure durée de vie

Punte da trapano, DXJ
- Punta ad alta prestazione
- Ideale per materiali fino a 850N/mm²
- Geometria di punta speciale con labbro di rinforzo tagliente
- Produce trucioli piccoli
- TiAlN per massimizzare vita utensile

Brocas Jobber, DXJ
- Broca de alto rendimiento
- Adecuado para materiales de hasta 800N/mm²
- Geometría de punta especial con labios de corte radial.
- Produce virutas cortas.
- TiAlN para una mayor vida útil de la herramienta.

DIN 338

5xd1



Catalogue Code	D165
Discount Group	A0418
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	WN
Geometry	R35
Point Type	130° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0820	8.2	117	75	D165 0820
0830	8.3	117	75	D165 0830
0840	8.4	117	75	D165 0840
0850	8.5	117	75	D165 0850
0860	8.6	125	81	D165 0860
0870	8.7	125	81	D165 0870
0880	8.8	125	81	D165 0880
0890	8.9	125	81	D165 0890
0900	9.0	125	81	D165 0900
0910	9.1	125	81	D165 0910
0920	9.2	125	81	D165 0920
0930	9.3	125	81	D165 0930
0940	9.4	125	81	D165 0940
0950	9.5	125	81	D165 0950
0960	9.6	133	87	D165 0960
0970	9.7	133	87	D165 0970
0980	9.8	133	87	D165 0980
0990	9.9	133	87	D165 0990
1000	10.0	133	87	D165 1000
1010	10.1	133	87	D165 1010
1020	10.2	133	87	D165 1020
1050	10.5	133	87	D165 1050
1080	10.8	133	87	D165 1080
1100	11.0	142	94	D165 1100
1110	11.1	142	94	D165 1110
1120	11.2	142	94	D165 1120
1150	11.5	142	94	D165 1150
1180	11.8	142	94	D165 1180

Size Ref.	Range			Pieces	Item #
1200	12.0	151	101		D165 1200
1220	12.2	151	101		D165 1220
1250	12.5	151	101		D165 1250
1280	12.8	151	101		D165 1280
1300	13.0	151	101		D165 1300

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D165	●	●	●	●	○	●	○	○		○				○	○	

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D165							●	●	●	●	○	●	○	●	○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D165																	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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suttontools

Drills Jobber, R40 UNI

- SPM offers superior performance
- Suitable for production drilling as an alternative to carbide drills
- Suitable for materials up to 1500N/mm²
- Point geometry ensures high strength & short chips
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance Hélice 40° universel

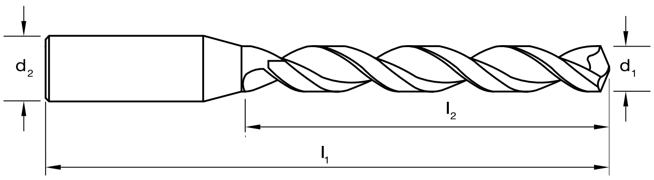
- Substrat SPM pour une meilleure performance
- Adapté à la production de masse, une alternative au foret carbure
- Utilisable dans les matériaux jusqu'à 1500N/mm² et les Super Alliages
- Affûtage 4 faces, pour un meilleur centrage, produit des copeaux courts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punta da trapano, R40 UNI

- SPM offre una prestazione superiore
- Ideale per foratura di produzione come alternativa al metallo duro
- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI

- SPM ofrece un rendimiento superior.
- Adecuado para taladrado de producción como alternativa a las brocas de metal duro.
- Adecuado para materiales de hasta 1500N/mm²
- La geometría de la punta garantiza alta resistencia y virutas cortas.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D168
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0100	1.0	41	12	3	D168 0100
0110	1.1	43	14	3	D168 0110
0120	1.2	44	16	3	D168 0120
0130	1.3	44	16	3	D168 0130
0140	1.4	46	18	3	D168 0140
0150	1.5	46	18	3	D168 0150
0160	1.6	47	20	3	D168 0160
0170	1.7	47	20	3	D168 0170
0180	1.8	49	22	3	D168 0180
0190	1.9	49	22	3	D168 0190
0200	2.0	49	24	3	D168 0200
0210	2.1	49	24	3	D168 0210
0220	2.2	53	28	3	D168 0220
0230	2.3	53	28	3	D168 0230
0240	2.4	57	31	3	D168 0240
0250	2.5	57	31	3	D168 0250
0260	2.6	57	31	3	D168 0260
0270	2.7	61	34	3	D168 0270
0280	2.8	61	34	3	D168 0280
0290	2.9	61	34	3	D168 0290
0300	3.0	61	33	3	D168 0300
0310	3.1	65	36	4	D168 0310
0320	3.2	65	36	4	D168 0320
0330	3.3	65	36	4	D168 0330
0340	3.4	70	39	4	D168 0340
0350	3.5	70	39	4	D168 0350
0360	3.6	70	39	4	D168 0360
0370	3.7	70	39	4	D168 0370

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0380	3.8	75	43	4	D168 0380
0390	3.9	75	43	4	D168 0390
0400	4.0	75	43	4	D168 0400
0410	4.1	75	43	6	D168 0410
0420	4.2	75	43	6	D168 0420
0430	4.3	80	47	6	D168 0430
0440	4.4	80	47	6	D168 0440
0450	4.5	80	47	6	D168 0450
0460	4.6	80	47	6	D168 0460
0465	4.65	80	47	6	D168 0465
0470	4.7	80	47	6	D168 0470
0480	4.8	86	52	6	D168 0480
0490	4.9	86	52	6	D168 0490
0500	5.0	86	52	6	D168 0500
0510	5.1	86	52	6	D168 0510
0520	5.2	86	52	6	D168 0520
0530	5.3	86	52	6	D168 0530
0540	5.4	93	57	6	D168 0540
0550	5.5	93	57	6	D168 0550
0555	5.55	93	57	6	D168 0555
0560	5.6	93	57	6	D168 0560
0570	5.7	93	57	6	D168 0570
0580	5.8	93	57	6	D168 0580
0590	5.9	93	57	6	D168 0590
0600	6.0	93	57	6	D168 0600
0610	6.1	101	63	8	D168 0610
0620	6.2	101	63	8	D168 0620
0630	6.3	101	63	8	D168 0630

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D168	●	●	●	●	●	●	●	●	○	●	○	●	●	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D168	○	○	●	●	●	○	●	●	○				○				○					○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, R40 UNI

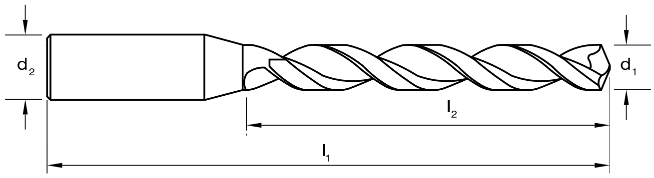
suttontools

- SPM offers superior performance
- Suitable for production drilling as an alternative to carbide drills
- Suitable for materials up to 1500N/mm²
- Point geometry ensures high strength & short chips
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance Hélice 40° universel
- Substrat SPM pour une meilleure performance
- Adapté à la production de masse, une alternative au foret carbure
- Utilisable dans les matériaux jusqu'à 1500N/mm² et les Super Alliages
- Affûtage 4 faces, pour un meilleur centrage, produit des copeaux courts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punta da trapano, R40 UNI
- SPM offre una prestazione superiore
- Ideale per foratura di produzione come alternativa al metallo duro
- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI
- SPM ofrece un rendimiento superior.
- Adecuado para taladrado de producción como alternativa a las brocas de metal duro.
- Adecuado para materiales de hasta 1500N/mm²
- La geometría de la punta garantiza alta resistencia y virutas cortas.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D168
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0640	6.4	101	63	8	D168 0640
0650	6.5	101	63	8	D168 0650
0660	6.6	101	63	8	D168 0660
0670	6.7	101	63	8	D168 0670
0680	6.8	109	69	8	D168 0680
0690	6.9	109	69	8	D168 0690
0700	7.0	109	69	8	D168 0700
0710	7.1	109	69	8	D168 0710
0720	7.2	109	69	8	D168 0720
0730	7.3	109	69	8	D168 0730
0740	7.4	109	69	8	D168 0740
0750	7.5	109	69	8	D168 0750
0760	7.6	117	75	8	D168 0760
0770	7.7	117	75	8	D168 0770
0780	7.8	117	75	8	D168 0780
0790	7.9	117	75	8	D168 0790
0800	8.0	117	75	8	D168 0800
0810	8.1	117	75	10	D168 0810
0820	8.2	117	75	10	D168 0820
0830	8.3	117	75	10	D168 0830
0840	8.4	117	75	10	D168 0840
0850	8.5	117	75	10	D168 0850
0860	8.6	125	81	10	D168 0860
0870	8.7	125	81	10	D168 0870
0880	8.8	125	81	10	D168 0880
0890	8.9	125	81	10	D168 0890
0900	9.0	125	81	10	D168 0900
0910	9.1	125	81	10	D168 0910
0920	9.2	125	81	10	D168 0920
0930	9.3	125	81	10	D168 0930
0940	9.4	125	81	10	D168 0940
0950	9.5	125	81	10	D168 0950
0955	9.55	133	87	10	D168 0955
0960	9.6	133	87	10	D168 0960
0970	9.7	133	87	10	D168 0970
0980	9.8	133	87	10	D168 0980
0990	9.9	133	87	10	D168 0990
1000	10.0	133	87	10	D168 1000
1010	10.1	133	87	10	D168 1010
1020	10.2	133	87	10	D168 1020
1030	10.3	133	87	10	D168 1030
1040	10.4	133	87	10	D168 1040
1050	10.5	133	87	10	D168 1050
1060	10.6	133	87	12	D168 1060
1070	10.7	142	94	12	D168 1070
1080	10.8	142	94	12	D168 1080
1090	10.9	142	94	12	D168 1090
1100	11.0	142	94	12	D168 1100
1110	11.1	142	94	12	D168 1110
1120	11.2	142	94	12	D168 1120
1130	11.3	142	94	12	D168 1130
1140	11.4	142	94	12	D168 1140
1150	11.5	142	94	12	D168 1150
1160	11.6	142	94	12	D168 1160
1170	11.7	142	94	12	D168 1170
1180	11.8	142	94	12	D168 1180

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D168	●	●	●	●	●	●	●	●	○	●	○	●	●

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D168	○	○	●	●	●	●	●	●	●

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D168	○	○	●	●	●	○	●	●	○	

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D168			○				○				

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D168	○				●	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

suttontools

Drills Jobber, R40 UNI

- SPM offers superior performance
- Suitable for production drilling as an alternative to carbide drills
- Suitable for materials up to 1500N/mm²
- Point geometry ensures high strength & short chips
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance Hélice 40° universel

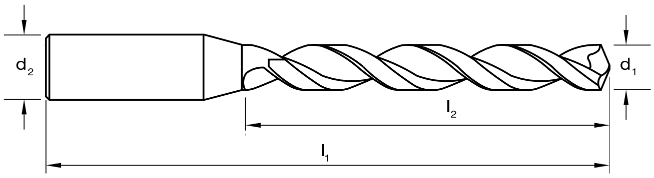
- Substrat SPM pour une meilleure performance
- Adapté à la production de masse, une alternative au foret carbure
- Utilisable dans les matériaux jusqu'à 1500N/mm² et les Super Alliages
- Affûtage 4 faces, pour un meilleur centrage, produit des copeaux courts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punta da trapano, R40 UNI

- SPM offre una prestazione superiore
- Ideale per foratura di produzione come alternativa al metallo duro
- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI

- SPM ofrece un rendimiento superior.
- Adecuado para taladrado de producción como alternativa a las brocas de metal duro.
- Adecuado para materiales de hasta 1500N/mm²
- La geometría de la punta garantiza alta resistencia y virutas cortas.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D168
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0640	6.4	101	63	8	D168 0640
0650	6.5	101	63	8	D168 0650
0660	6.6	101	63	8	D168 0660
0670	6.7	101	63	8	D168 0670
0680	6.8	109	69	8	D168 0680
0690	6.9	109	69	8	D168 0690
0700	7.0	109	69	8	D168 0700
0710	7.1	109	69	8	D168 0710
0720	7.2	109	69	8	D168 0720
0730	7.3	109	69	8	D168 0730
0740	7.4	109	69	8	D168 0740
0750	7.5	109	69	8	D168 0750
0760	7.6	117	75	8	D168 0760
0770	7.7	117	75	8	D168 0770
0780	7.8	117	75	8	D168 0780
0790	7.9	117	75	8	D168 0790
0800	8.0	117	75	8	D168 0800
0810	8.1	117	75	10	D168 0810
0820	8.2	117	75	10	D168 0820
0830	8.3	117	75	10	D168 0830
0840	8.4	117	75	10	D168 0840
0850	8.5	117	75	10	D168 0850
0860	8.6	125	81	10	D168 0860
0870	8.7	125	81	10	D168 0870
0880	8.8	125	81	10	D168 0880
0890	8.9	125	81	10	D168 0890
0900	9.0	125	81	10	D168 0900
0910	9.1	125	81	10	D168 0910

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0920	9.2	125	81	10	D168 0920
0930	9.3	125	81	10	D168 0930
0940	9.4	125	81	10	D168 0940
0950	9.5	125	81	10	D168 0950
0955	9.55	133	87	10	D168 0955
0960	9.6	133	87	10	D168 0960
0970	9.7	133	87	10	D168 0970
0980	9.8	133	87	10	D168 0980
0990	9.9	133	87	10	D168 0990
1000	10.0	133	87	10	D168 1000
1010	10.1	133	87	10	D168 1010
1020	10.2	133	87	10	D168 1020
1030	10.3	133	87	10	D168 1030
1040	10.4	133	87	10	D168 1040
1050	10.5	133	87	10	D168 1050
1060	10.6	133	87	12	D168 1060
1070	10.7	142	94	12	D168 1070
1080	10.8	142	94	12	D168 1080
1090	10.9	142	94	12	D168 1090
1100	11.0	142	94	12	D168 1100
1110	11.1	142	94	12	D168 1110
1120	11.2	142	94	12	D168 1120
1130	11.3	142	94	12	D168 1130
1140	11.4	142	94	12	D168 1140
1150	11.5	142	94	12	D168 1150
1160	11.6	142	94	12	D168 1160
1170	11.7	142	94	12	D168 1170
1180	11.8	142	94	12	D168 1180

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D168	●	●	●	●	●	●	●	●	○	●	○	●	●	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D168	○	○	●	●	●	○	●	●	○				○				○					○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Jobber, R40 UNI

suttontools

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Forets queue cylindrique haute performance Hélice 40° universel
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- Revêtement TiAIN pour une meilleure durée de vie

Punta da trapano, R40 UNI
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- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAIN per massimizzare vita utensile

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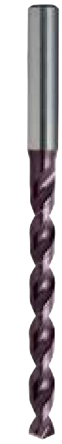
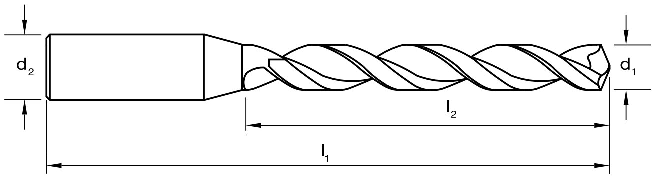
- Mango de mayor precisión.
- TiAIN para una mayor vida útil de la herramienta.





Catalogue Code	D168
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
1190	11.9	151	101	12	D168 1190
1200	12.0	151	101	12	D168 1200
1210	12.1	151	101	12	D168 1210
1220	12.2	151	101	12	D168 1220
1230	12.3	151	101	12	D168 1230
1240	12.4	151	101	12	D168 1240
1250	12.5	151	101	12	D168 1250
1260	12.6	151	101	12	D168 1260
1270	12.7	151	101	12	D168 1270
1280	12.8	151	101	12	D168 1280
1290	12.9	151	101	12	D168 1290
1300	13.0	151	101	12	D168 1300
1350	13.5	160	108	16	D168 1350
1400	14.0	160	108	16	D168 1400
1450	14.5	169	114	16	D168 1450
1500	15.0	169	114	16	D168 1500
1550	15.5	178	120	16	D168 1550
1600	16.0	178	120	16	D168 1600
1650	16.5	184	125	20	D168 1650
1700	17.0	184	125	20	D168 1700
1750	17.5	191	130	20	D168 1750
1800	18.0	191	130	20	D168 1800
1850	18.5	198	135	20	D168 1850
1900	19.0	198	135	20	D168 1900
1950	19.5	205	140	20	D168 1950
2000	20.0	205	140	20	D168 2000

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D168	●	●	●	●	●	●	●	●	○	●	○	●	●	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D168	○	○	●	●	●	○	●	●	○				○				○					○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

suttontools

Drills Jobber, R40 UNI, IK

- Alternative to carbide where application lacks rigidity
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- For use in CNC machines with through spindle coolant supply
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- TiAlN for longer tool life

Forets queue cylindrique haute performance Hélice 40° universel, arrosage central

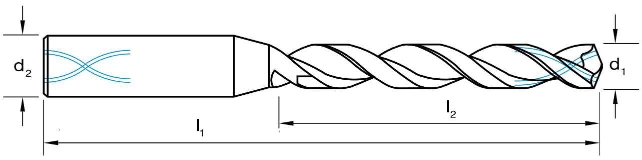
- Alternative au carbure, adapté au manque de stabilité
- Arrosage interne pour une meilleure évacuaton copeaux
- Utilisation sur machine CN avec arrosage centre broche
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punte da trapano, R40 UNI, IK

- Alternativa al metello duro in caso di scarsa rigidità
- Reffrigerazione diretta sul tagliente per aiutare l'evaquazione truciolo
- Usare su CNC su mandrino con passaggio di refrigerazione interna
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI, IK

- Alternativa al metal duro, donde la aplicación carece de rigidez
- Refrigeración interior, directamente al filo de corte, para ayudar a evacuar la viruta del agujero
- Para uso en máquinas CNC con suministro de refrigeración a través del husillo
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D182
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40 IK
Point Type	130° 4 Facet Form B
Shank Form (DIN 1835)	Form E

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0500	5.0	82	44	6	D182 0500
0510	5.1	82	44	6	•
0520	5.2	82	44	6	D182 0520
0530	5.3	82	44	6	•
0540	5.4	82	44	6	•
0550	5.5	82	44	6	D182 0550
0560	5.6	82	44	6	•
0570	5.7	82	44	6	•
0580	5.8	82	44	6	D182 0580
0590	5.9	82	44	6	D182 0590
0600	6.0	82	44	6	D182 0600
0610	6.1	91	53	8	•
0620	6.2	91	53	8	•
0630	6.3	91	53	8	•
0640	6.4	91	53	8	•
0650	6.5	91	53	8	D182 0650
0660	6.6	91	53	8	•
0670	6.7	91	53	8	D182 0670
0680	6.8	91	53	8	D182 0680
0690	6.9	91	53	8	•
0700	7.0	91	53	8	D182 0700
0710	7.1	91	53	8	•
0720	7.2	91	53	8	D182 0720
0730	7.3	91	53	8	•
0740	7.4	91	53	8	•
0750	7.5	91	53	8	D182 0750
0760	7.6	91	53	8	•
0770	7.7	91	53	8	•

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0780	7.8	91	53	8	D182 0780
0790	7.9	91	53	8	•
0800	8.0	91	53	8	D182 0800
0810	8.1	103	61	10	D182 0810
0820	8.2	103	61	10	D182 0820
0830	8.3	103	61	10	•
0840	8.4	103	61	10	•
0850	8.5	103	61	10	D182 0850
0860	8.6	103	61	10	D182 0860
0870	8.7	103	61	10	D182 0870
0880	8.8	103	61	10	D182 0880
0890	8.9	103	61	10	•
0900	9.0	103	61	10	D182 0900
0910	9.1	103	61	10	•
0920	9.2	103	61	10	•
0930	9.3	103	61	10	D182 0930
0940	9.4	103	61	10	•
0950	9.5	103	61	10	D182 0950
0960	9.6	103	61	10	D182 0960
0970	9.7	103	61	10	•
0980	9.8	103	61	10	•
0990	9.9	103	61	10	D182 0990
1000	10.0	103	61	10	D182 1000
1020	10.2	122	75	12	D182 1020
1050	10.5	122	75	12	D182 1050
1100	11.0	122	75	12	D182 1100
1150	11.5	122	75	12	D182 1150
1200	12.0	122	75	12	D182 1200

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D182	●	●	●	●	○	●	●	○	○	○	○	●	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D182	○	○	●	●	○	○	●	●	○		○	○	○	○	○	○	○	○	○	○	○	○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

Drills Jobber, R40 UNI, IK

suttontools

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- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
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Punte da trapano, R40 UNI, IK

- Alternativa al metello duro in caso di scarsa rigidità
- Reffrigerazione diretta sul tagliente per aiutare l'evaquazione truciolo
- Usare su CNC su mandrino con passaggio di refrigerazione interna
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI, IK

- Alternativa al metal duro, donde la aplicación carece de rigidez
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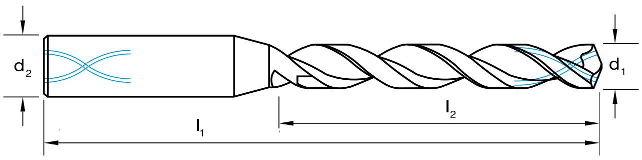

Catalogue Code	D182
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40 IK
Point Type	130° 4 Facet Form B
Shank Form (DIN 1835)	Form E

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
1250	12.5	134	87	14	D182 1250
1300	13.0	134	87	14	D182 1300
1350	13.5	134	87	14	D182 1350
1400	14.0	134	87	14	D182 1400
1450	14.5	150	100	16	D182 1450
1500	15.0	150	100	16	D182 1500
1550	15.5	150	100	16	D182 1550
1600	16.0	150	100	16	D182 1600
1650	16.5	162	122	18	D182 1650
1700	17.0	162	122	18	D182 1700
1750	17.5	162	122	18	D182 1750
1800	18.0	162	122	18	D182 1800
1850	18.5	176	124	20	D182 1850
1900	19.0	176	124	20	D182 1900
1950	19.5	176	124	20	D182 1950
2000	20.0	176	124	20	D182 2000
2050	20.5	207	145	25	D182 2050
2100	21.0	207	145	25	D182 2100
2150	21.5	207	145	25	D182 2150
2200	22.0	207	145	25	D182 2200
2250	22.5	207	145	25	D182 2250
2300	23.0	207	145	25	D182 2300
2350	23.5	207	145	25	D182 2350
2400	24.0	207	145	25	D182 2400

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D182	●	●	●	●	○	●	●	○	○	○	○	●	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D182	○	○	●	●	○	○	●	●	○		○	○	○	○	○	○	○	○	○	○	○	○				●	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

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Drills Jobber, R40, *InOx*

suttontools

INOX STAINLESS STEEL

watch the video

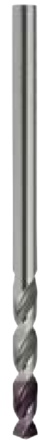
- Short flute length jobber drill
- Cost effective solution for austenitic stainless steels and soft materials
- Unique stepped core for excellent penetration
- TiAlN tip for good wear resistance

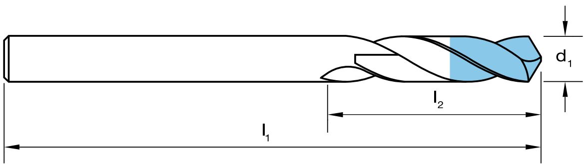
Forets queue cylindrique, Hélice 40°, Inox
- Courte longueur taillée
- Solution économique et performante pour les inox et matériaux tendres
- Affûtage et design pour une pénétration facile
- Revêtement TiAlN tip en bout pour une meilleure résistance

Punte da trapano, R40, InOx
- Punta dal tagliente corto
- Soluzione economica per acciai inossidabili , austinitici e materiali morbidi
- Formazione del nocciolo a gradini che la rende unica con prestazioni eccellenti
- TiAlN per garantire un'ottima resistenza all'usura

Brocas Jobber, R40 UNI, InOx
- Longitud jobber de hélice corta
- Solución rentable para aceros inoxidables austeníticos y materiales blandos.
- Núcleo escalonado para una excelente penetración.
- Punta TiAlN para mayor resistencia al desgaste.

~DIN 338 | 3xd1





Catalogue Code	D180
Discount Group	A0402
Material	HSS
Surface Finish	*TiAlN Tip*
Sutton Designation	VA
Geometry	R40
Point Type	130°
Order Quantity	10 (5 > 7.5mm)

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0100	**1.0**		34	7	D180 0100
0110	**1.1**		36	8	D180 0110
0120	**1.2**		38	9	D180 0120
0130	**1.3**		38	9	D180 0130
0140	**1.4**		40	10	D180 0140
0150	**1.5**		40	10	D180 0150
0160	**1.6**		43	11	D180 0160
0170	**1.7**		43	11	D180 0170
0180	**1.8**		46	12	D180 0180
0190	**1.9**		46	12	D180 0190
0200	**2.0**		49	13	D180 0200
0210	**2.1**		49	13	D180 0210
0220	**2.2**		53	15	D180 0220
0230	**2.3**		53	15	D180 0230
0240	**2.4**		57	16	D180 0240
0250	**2.5**		57	16	D180 0250
0260	**2.6**		57	16	D180 0260
0270	**2.7**		61	18	D180 0270
0280	**2.8**		61	18	D180 0280
0290	**2.9**		61	18	D180 0290
0300	**3.0**		61	18	D180 0300
0310	**3.1**		65	20	D180 0310
0318	3.18	**1/8**	65	20	•
0320	**3.2**		65	20	D180 0320
0325	**3.25**		65	20	D180 0325
0330	**3.3**		65	20	D180 0330
0340	**3.4**		70	22	D180 0340
0350	**3.5**		70	22	D180 0350
0357	3.57	**9/64**	70	22	•
0360	**3.6**		70	22	D180 0360

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0370	**3.7**		70	22	D180 0370
0375	**3.75**		75	25	D180 0375
0380	**3.8**		75	25	D180 0380
0390	**3.9**		75	25	D180 0390
0397	3.97	**5/32**	75	25	•
0400	**4.0**		75	25	D180 0400
0410	**4.1**		75	25	D180 0410
0420	**4.2**		75	25	D180 0420
0425	**4.25**		75	25	D180 0425
0430	4.3		80	28	D180 0430
0437	4.37	**11/64**	80	28	•
0440	**4.4**		80	28	D180 0440
0450	**4.5**		80	28	D180 0450
0460	**4.6**		80	28	D180 0460
0470	**4.7**		80	28	D180 0470
0475	**4.75**		80	28	D180 0475
0476	4.76	**3/16**	86	32	•
0480	**4.8**		86	32	D180 0480
0490	**4.9**		86	32	D180 0490
0500	**5.0**		86	32	D180 0500
0510	**5.1**		86	32	D180 0510
0516	5.16	**13/64**	86	32	•
0520	**5.2**		86	32	D180 0520
0525	**5.25**		86	32	D180 0525
0530	**5.3**		86	32	D180 0530
0540	**5.4**		93	36	D180 0540
0550	**5.5**		93	36	D180 0550
0556	5.56	**7/32**	93	36	•
0560	**5.6**		93	36	D180 0560
0570	**5.7**		93	36	D180 0570

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D180	●	●	○	○		●	○					○	○	●	●	○						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D180	●	●	●	●		○		○	○																		

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

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watch the video

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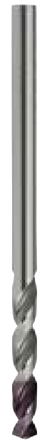
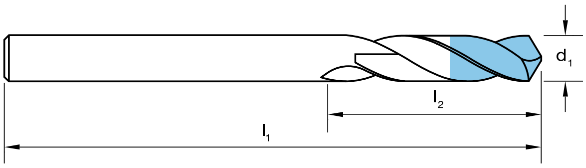
~DIN 338

3xd1





Catalogue Code	D180
Discount Group	A0402
Material	HSS
Surface Finish	*TiAlN Tip*
Sutton Designation	VA
Geometry	R40
Point Type	130°
Order Quantity	5

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0575	5.75		93	36	D180 0575
0580	5.8		93	36	D180 0580
0590	5.9		93	36	D180 0590
0595	5.95	15/64	93	36	•
0600	6.0		93	36	D180 0600
0610	6.1		101	40	D180 0610
0620	6.2		101	40	D180 0620
0625	6.25		101	40	D180 0625
0630	6.3		101	40	D180 0630
0635	6.35	1/4	101	40	•
0640	6.4		101	40	D180 0640
0650	6.5		101	40	D180 0650
0660	6.6		101	40	D180 0660
0670	6.7		101	40	D180 0670
0675	6.75	17/64	101	40	D180 0675
0680	6.8		109	45	D180 0680
0690	6.9		109	45	D180 0690
0700	7.0		109	45	D180 0700
0710	7.1		109	45	D180 0710
0714	7.14	9/32	109	45	•
0720	7.2		109	45	D180 0720
0725	7.25		109	45	D180 0725
0730	7.3		109	45	D180 0730
0740	7.4		109	45	D180 0740
0750	7.5		109	45	D180 0750
0754	7.54	19/64	117	51	•
0760	7.6		117	51	D180 0760
0770	7.7		117	51	D180 0770
0775	7.75		117	51	D180 0775
0780	7.8		117	51	D180 0780

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0790	7.9		117	51	D180 0790
0794	7.94	5/16	117	51	•
0800	8.0		117	51	D180 0800
0810	8.1		117	51	D180 0810
0820	8.2		117	51	D180 0820
0825	8.25		117	51	D180 0825
0830	8.3		117	51	D180 0830
0833	8.33	21/64	117	51	•
0840	8.4		117	51	D180 0840
0850	8.5		117	51	D180 0850
0860	8.6		125	51	D180 0860
0870	8.7		125	57	D180 0870
0873	8.73	11/32	125	57	•
0875	8.75		125	57	D180 0875
0880	8.8		125	57	D180 0880
0890	8.9		125	57	D180 0890
0900	9.0		125	57	D180 0900
0910	9.1		125	57	D180 0910
0913	9.13	23/64	125	57	•
0920	9.2		125	57	D180 0920
0925	9.25		125	57	D180 0925
0930	9.3		125	57	D180 0930
0940	9.4		125	57	D180 0940
0950	9.5		125	57	D180 0950
0953	9.53	3/8	133	63	•
0960	9.6		133	63	D180 0960
0970	9.7		133	63	D180 0970
0975	9.75		133	63	D180 0975
0980	9.8		133	63	D180 0980
0990	9.9		133	63	D180 0990

VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D180	●	●	○	○		●	○					○	○	●	●	○						

VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D180	●	●	●	●		○		○	○																		

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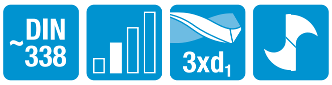

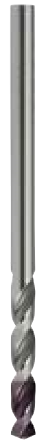

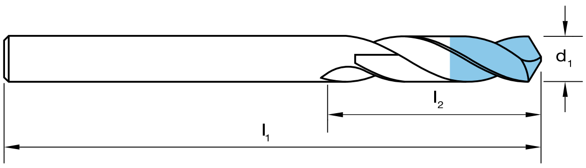

Catalogue Code	D180
Discount Group	A0402
Material	HSS
Surface Finish	*TiAlN Tip*
Sutton Designation	VA
Geometry	R40
Point Type	130°
Order Quantity	10 (5 > 7.5mm)

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0992	9.92 **25/64**	133	63	•
1000	**10.0**	133	63	D180 1000
1010	**10.1**	133	63	D180 1010
1020	**10.2**	133	63	D180 1020
1025	**10.25**	133	63	D180 1025
1030	**10.3**	133	63	D180 1030
1032	10.32 **13/32**	133	63	•
1040	**10.4**	133	63	D180 1040
1050	**10.5**	133	63	D180 1050
1060	**10.6**	133	63	D180 1060
1070	**10.7**	142	71	D180 1070
1072	10.72 **27/64**	142	71	•
1075	**10.75**	142	71	D180 1075
1080	**10.8**	142	71	D180 1080
1090	**10.9**	142	71	D180 1090
1100	**11.0**	142	71	D180 1100
1110	**11.1**	142	71	D180 1110
1111	11.11 **7/16**	142	71	•
1120	**11.2**	142	71	D180 1120
1125	**11.25**	142	71	D180 1125
1130	**11.3**	142	71	D180 1130
1140	**11.4**	142	71	D180 1140
1150	**11.5**	142	71	D180 1150
1151	11.51 **29/64**	142	71	•
1160	**11.6**	142	71	D180 1160
1170	**11.7**	142	71	D180 1170
1175	**11.75**	142	71	D180 1175
1180	**11.8**	142	71	D180 1180
1190	**11.9**	142	78	D180 1190
1191	11.91 **15/32**	151	78	•

Size Ref.	d_1 (h8)	l_1	l_2	Item #
1200	**12.0**	151	78	D180 1200
1210	**12.1**	151	78	D180 1210
1220	**12.2**	151	78	D180 1220
1225	**12.25**	151	78	D180 1225
1230	**12.3**	151	78	D180 1230
1230	12.3 **31/64**	151	78	•
1240	**12.4**	151	78	D180 1240
1250	**12.5**	151	78	D180 1250
1260	**12.6**	151	78	D180 1260
1270	**12.7**	151	78	D180 1270
1270	12.7 **1/2**	151	78	•
1275	**12.75**	151	78	D180 1275
1280	**12.8**	151	78	D180 1280
1290	**12.9**	151	78	D180 1290
1300	**13.0**	151	78	D180 1300

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D180	●	●	○	○		●	○					○	○	●	●	○						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D180	●	●	●	●		○		○	○																		

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Drills Jobber, R40 VA, *Black Magic*

watch the video

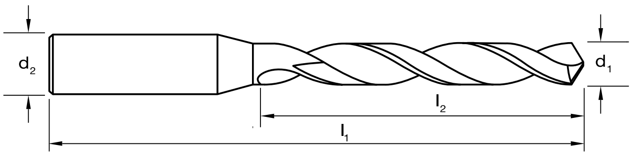
suttontools
BLACKMAGIC

- High performance drill
- Excellent solution for austenitic stainless steels and most long chipping materials
- Optimised geometry ensures no work hardening and high productivity
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance Hélice 40° VA, Black Magic
- Forets Haute Performance
- Excellente sollution pour les Inox et matériaux à copeaux longs
- Géométrie optimisée pour réduire les efforts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- TiAlN for longer tool life

Punte da trapano, R40 VA, Black Magic
- Punta ad alta prestazione
- eccellente soluzione per acciai inossidalili e materiale di scarsa truciolabilità
- Geometria ottimizzata per lavorare intensamente ad alta produttività
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Jobber, R40 UNI, VA, Black Magic
- Broca de alto rendimiento.
- Excelente solución para aceros inoxidables austeníticos y la mayoría de los materiales de viruta larga.
- La geometría optimizada que garantiza una alta productividad.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D169
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet Form C
Shank Tolerance	h7

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Item #
0200	2.0		49	24	3	130°	D169 0200
0210	2.1		49	24	3	130°	D169 0210
0220	2.2		53	28	3	130°	D169 0220
0230	2.3		53	28	3	130°	D169 0230
0240	2.4		57	31	3	130°	D169 0240
0250	2.5		57	31	3	130°	D169 0250
0260	2.6		57	31	3	130°	D169 0260
0270	2.7		61	34	3	130°	D169 0270
0280	2.8		61	34	3	130°	D169 0280
0290	2.9		61	34	3	130°	D169 0290
0300	3.0		61	33	3	130°	D169 0300
0310	3.1		65	36	4	130°	D169 0310
0318	3.18	1/8	65	36	4	130°	D169 0318
0320	3.2		65	36	4	130°	D169 0320
0330	3.3		65	36	4	130°	D169 0330
0340	3.4		70	39	4	130°	D169 0340
0350	3.5		70	39	4	130°	D169 0350
0357	3.57	9/64	70	39	4	130°	D169 0357
0360	3.6		70	39	4	130°	D169 0360
0370	3.7		70	39	4	130°	D169 0370
0380	3.8		75	43	4	130°	D169 0380
0390	3.9		75	43	4	130°	D169 0390
0397	3.97	5/32	75	43	4	130°	D169 0397
0400	4.0		75	43	4	130°	D169 0400
0410	4.1		75	43	6	120°	D169 0410
0420	4.2		75	43	6	120°	D169 0420
0430	4.3		80	47	6	120°	D169 0430
0437	4.37	11/64	80	47	6	120°	D169 0437

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Item #
0440	4.4		80	47	6	120°	D169 0440
0450	4.5		80	47	6	120°	D169 0450
0460	4.6		80	47	6	120°	D169 0460
0465	4.65		80	47	6	120°	D169 0465
0470	4.7		80	47	6	120°	D169 0470
0476	4.76	3/16	86	52	6	120°	D169 0476
0480	4.8		86	52	6	120°	D169 0480
0490	4.9		86	52	6	120°	D169 0490
0500	5.0		86	52	6	120°	D169 0500
0510	5.1		86	52	6	120°	D169 0510
0516	5.16	13/64	86	52	6	120°	D169 0516
0520	5.2		86	52	6	120°	D169 0520
0530	5.3		86	52	6	120°	D169 0530
0540	5.4		93	57	6	120°	D169 0540
0550	5.5		93	57	6	120°	D169 0550
0555	5.55		93	57	6	120°	D169 0555
0556	5.56	7/32	93	57	6	120°	D169 0556
0560	5.6		93	57	6	120°	D169 0560
0570	5.7		93	57	6	120°	D169 0570
0580	5.8		93	57	6	120°	D169 0580
0590	5.9		93	57	6	120°	D169 0590
0595	5.95	15/64	93	57	6	120°	D169 0595
0600	6.0		93	57	6	120°	D169 0600
0610	6.1		101	63	8	120°	D169 0610
0620	6.2		101	63	8	120°	D169 0620
0630	6.3		101	63	8	120°	D169 0630
0635	6.35	1/4	101	63	8	120°	D169 0635
0640	6.4		101	63	8	120°	D169 0640

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D169	●	○	○	○		○	○					●	○	●	●	●

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D169							○	○	○	○		○		○		

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D169							○	○		○							

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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BLACKMAGIC

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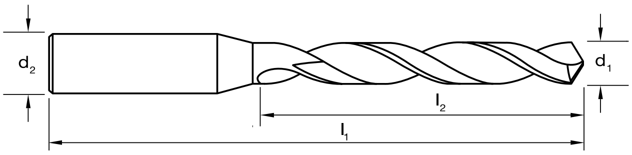

Catalogue Code	D169
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet Form C
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #
0650	**6.5**	101	63	8	120°		D169 0650
0660	**6.6**	101	63	8	120°		D169 0660
0670	**6.7**	101	63	8	120°		D169 0670
0676	6.75 **17/64**	109	69	8	120°		D169 0676
0680	**6.8**	109	69	8	120°		D169 0680
0690	**6.9**	109	69	8	120°		D169 0690
0700	**7.0**	109	69	8	120°		D169 0700
0710	**7.1**	109	69	8	120°		D169 0710
0714	7.14 **9/32**	109	69	8	120°		D169 0714
0720	**7.2**	109	69	8	120°		D169 0720
0730	**7.3**	109	69	8	120°		D169 0730
0740	**7.4**	109	69	8	120°		D169 0740
0750	**7.5**	109	69	8	120°		D169 0750
0754	7.54 **19/64**	117	75	8	120°		D169 0754
0755	**7.55**	117	75	8	120°		D169 0755
0760	**7.6**	117	75	8	120°		D169 0760
0770	**7.7**	117	75	8	120°		D169 0770
0780	**7.8**	117	75	8	120°		D169 0780
0790	**7.9**	117	75	8	120°		D169 0790
0794	7.94 **5/16**	117	75	8	120°		D169 0794
0800	**8.0**	117	75	8	120°		D169 0800
0810	**8.1**	117	75	10	120°		D169 0810
0820	**8.2**	117	75	10	120°		D169 0820
0830	**8.3**	117	75	10	120°		D169 0830
0833	8.33 **21/64**	117	75	10	120°		D169 0833
0840	**8.4**	117	75	10	120°		D169 0840
0850	**8.5**	117	75	10	120°		D169 0850
0860	**8.6**	125	81	10	120°		D169 0860

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #
0870	**8.7**	125	81	10	120°		D169 0870
0873	8.73 **11/32**	125	81	10	120°		D169 0873
0880	**8.8**	125	81	10	120°		D169 0880
0890	**8.9**	125	81	10	120°		D169 0890
0900	**9.0**	125	81	10	120°		D169 0900
0910	**9.1**	125	81	10	120°		D169 0910
0913	9.13 **23/64**	125	81	10	120°		D169 0913
0920	**9.2**	125	81	10	120°		D169 0920
0930	**9.3**	125	81	10	120°		D169 0930
0940	**9.4**	125	81	10	120°		D169 0940
0950	**9.5**	125	81	10	120°		D169 0950
0953	9.52 **3/8**	133	87	10	120°		D169 0953
0955	**9.55**	133	87	10	120°		D169 0955
0960	**9.6**	133	87	10	120°		D169 0960
0970	**9.7**	133	87	10	120°		D169 0970
0980	**9.8**	133	87	10	120°		D169 0980
0990	**9.9**	133	87	10	120°		D169 0990
0992	9.92 **25/64**	133	87	10	120°		D169 0992
1000	**10.0**	133	87	10	120°		D169 1000
1010	**10.1**	133	87	10	120°		D169 1010
1020	**10.2**	133	87	10	120°		D169 1020
1030	**10.3**	133	87	10	120°		D169 1030
1032	10.32 **13/32**	133	87	10	120°		D169 1032
1040	**10.4**	133	87	10	120°		D169 1040
1050	**10.5**	133	87	10	120°		D169 1050
1060	**10.6**	133	87	12	120°		D169 1060
1070	**10.7**	142	94	12	120°		D169 1070
1072	10.72 **27/64**	142	94	12	120°		D169 1072

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D169	●	○	○	○		○	○					●	○

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D169	●	●	●						

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D169	○	○	○	○		○		○		

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D169							○	○		○	

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D169						

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

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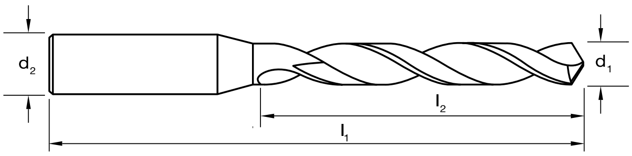

Catalogue Code	D169
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet Form C
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #
1080	**10.8**	142	94	12	120°		D169 1080
1090	**10.9**	142	94	12	120°		D169 1090
1100	**11.0**	142	94	12	120°		D169 1100
1110	**11.1**	142	94	12	120°		D169 1110
1111	11.11 **7/16**	142	94	12	120°		D169 1111
1120	**11.2**	142	94	12	120°		D169 1120
1130	**11.3**	142	94	12	120°		D169 1130
1140	**11.4**	142	94	12	120°		D169 1140
1150	**11.5**	142	94	12	120°		D169 1150
1151	11.51 **29/64**	142	94	12	120°		D169 1151
1160	**11.6**	142	94	12	120°		D169 1160
1170	**11.7**	142	94	12	120°		D169 1170
1180	**11.8**	142	94	12	120°		D169 1180
1190	**11.9**	151	94	12	120°		D169 1190
1191	11.91 **15/32**	151	101	12	120°		D169 1191
1200	**12.0**	151	101	12	120°		D169 1200
1210	**12.1**	151	101	12	120°		D169 1210
1220	**12.2**	151	101	12	120°		D169 1220
1230	**12.3**	151	101	12	120°		D169 1230
1231	12.3 **31/64**	151	101	12	120°		D169 1231
1240	**12.4**	151	101	12	120°	C	D169 1240
1250	**12.5**	151	101	12	120°	C	D169 1250
1260	**12.6**	151	101	12	120°	C	D169 1260
1270	**12.7**	151	101	12	120°	C	D169 1270
1269	12.7 **1/2**	151	101	12	120°	C	D169 1269
1280	**12.8**	151	101	12	120°	C	D169 1280
1290	**12.9**	151	101	12	120°	C	D169 1290
1300	**13.0**	151	101	12	120°	C	D169 1300
1350	**13.5**	160	108	16	120°	A	D169 1350
1400	**14.0**	160	108	16	120°	A	D169 1400
1450	**14.5**	169	114	16	120°	A	D169 1450
1500	**15.0**	169	114	16	120°	A	D169 1500
1550	**15.5**	178	120	16	120°	A	D169 1550
1600	**16.0**	178	120	16	120°	A	D169 1600
1650	**16.5**	184	125	20	120°	A	D169 1650
1700	**17.0**	184	125	20	120°	A	D169 1700
1750	**17.5**	191	130	20	120°	A	D169 1750
1800	**18.0**	191	130	20	120°	A	D169 1800
1850	**18.5**	198	135	20	120°	A	D169 1850
1900	**19.0**	198	135	20	120°	A	D169 1900
1950	**19.5**	205	140	20	120°	A	D169 1950
2000	**20.0**	205	140	20	120°	A	D169 2000

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D169	●	○	○	○		○	○					●	○	●	●	●

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D169							○	○	○	○		○		○		

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D169							○	○		○							

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- Pour utilisation sur tours automatique et machines à main

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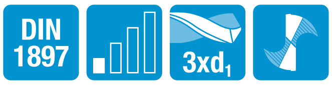

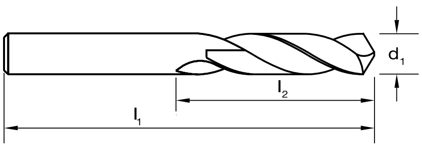

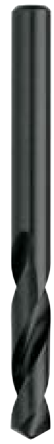

Catalogue Code	D186
Discount Group	A1002
Material	HSS
Surface Finish	*Blu*
Sutton Designation	Ferrous Materials
Geometry	R30
Point Type	118° Form C >3mm
Order Quantity	Bulk 10 (5 > 7.5mm)

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0100	1.0	26	6	D186 0100
0110	1.1	28	7	D186 0110
0120	1.2	30	8	D186 0120
0130	1.3	30	8	D186 0130
0140	1.4	32	9	D186 0140
0150	1.5	32	9	D186 0150
0160	1.6	34	10	D186 0160
0170	1.7	34	10	D186 0170
0180	1.8	36	11	D186 0180
0190	1.9	36	11	D186 0190
0200	2.0	38	12	D186 0200
0210	2.1	40	13	D186 0210
0220	2.2	40	13	D186 0220
0230	2.3	40	13	D186 0230
0240	2.4	43	14	D186 0240
0250	2.5	43	14	D186 0250
0260	2.6	43	14	D186 0260
0270	2.7	46	16	D186 0270
0280	2.8	46	16	D186 0280
0290	2.9	46	16	D186 0290
0300	3.0	46	16	D186 0300
0310	3.1	49	18	D186 0310
0320	3.2	49	18	D186 0320
0330	3.3	49	18	D186 0330
0340	3.4	52	20	D186 0340
0350	3.5	52	20	D186 0350
0360	3.6	52	20	D186 0360
0370	3.7	52	20	D186 0370
0380	3.8	55	22	D186 0380
0390	3.9	55	22	D186 0390
0400	4.0	55	22	D186 0400
0410	4.1	55	22	D186 0410

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0420	4.2	55	22	D186 0420
0430	4.3	58	24	D186 0430
0440	4.4	58	24	D186 0440
0450	4.5	58	24	D186 0450
0460	4.6	58	24	D186 0460
0470	4.7	58	24	D186 0470
0480	4.8	62	26	D186 0480
0490	4.9	62	26	D186 0490
0500	5.0	62	26	D186 0500
0510	5.1	62	26	D186 0510
0520	5.2	62	26	D186 0520
0530	5.3	62	26	D186 0530
0540	5.4	66	28	D186 0540
0550	5.5	66	28	D186 0550
0560	5.6	66	28	D186 0560
0570	5.7	66	28	D186 0570
0580	5.8	66	28	D186 0580
0590	5.9	66	28	D186 0590
0600	6.0	66	28	D186 0600
0610	6.1	70	31	D186 0610
0620	6.2	70	31	D186 0620
0630	6.3	70	31	D186 0630
0640	6.4	70	31	D186 0640
0650	6.5	70	31	D186 0650
0660	6.6	70	31	D186 0660
0670	6.7	70	31	D186 0670
0680	6.8	74	34	D186 0680
0690	6.9	74	34	D186 0690
0700	7.0	74	34	D186 0700
0710	7.1	74	34	D186 0710
0720	7.2	74	34	D186 0720
0730	7.3	74	34	D186 0730

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D186	●	●	●	●	○	●	●	○		●			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D186	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D186	○	○							○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D186																○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

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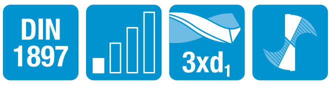

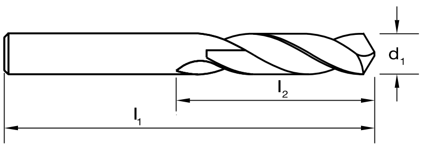

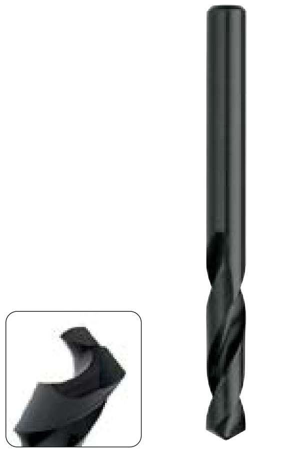

Catalogue Code	D186
Discount Group	A1002
Material	HSS
Surface Finish	*Blu*
Sutton Designation	Ferrous Materials
Geometry	R30
Point Type	118° Form C >3mm
Order Quantity	Bulk 10 (5>7.5mm)

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0740	7.4	74	34	D186 0740
0750	7.5	74	34	D186 0750
0760	7.6	79	37	D186 0760
0770	7.7	79	37	D186 0770
0780	7.8	79	37	D186 0780
0790	7.9	79	37	D186 0790
0800	8.0	79	37	D186 0800
0810	8.1	79	37	D186 0810
0820	8.2	79	37	D186 0820
0830	8.3	79	37	D186 0830
0840	8.4	79	37	D186 0840
0850	8.5	79	37	D186 0850
0860	8.6	84	40	D186 0860
0870	8.7	84	40	D186 0870
0880	8.8	84	40	D186 0880
0890	8.9	84	40	D186 0890
0900	9.0	84	40	D186 0900
0910	9.1	84	40	D186 0910
0920	9.2	84	40	D186 0920
0930	9.3	84	40	D186 0930
0940	9.4	84	40	D186 0940
0950	9.5	84	40	D186 0950
0960	9.6	89	43	D186 0960
0970	9.7	89	43	D186 0970
0980	9.8	89	43	D186 0980
0990	9.9	89	43	D186 0990
1000	10.0	89	43	D186 1000
1010	10.1	89	43	D186 1010
1020	10.2	89	43	D186 1020
1030	10.3	89	43	D186 1030
1040	10.4	89	43	D186 1040
1050	10.5	89	43	D186 1050

Size Ref.	d_1 (h8)	l_1	l_2	Item #
1060	10.6	95	47	D186 1060
1070	10.7	95	47	D186 1070
1080	10.8	95	47	D186 1080
1090	10.9	95	47	D186 1090
1100	11.0	95	47	D186 1100
1110	11.1	95	47	D186 1110
1120	11.2	95	47	D186 1120
1130	11.3	95	47	D186 1130
1140	11.4	95	47	D186 1140
1150	11.5	95	47	D186 1150
1160	11.6	95	47	D186 1160
1170	11.7	95	47	D186 1170
1180	11.8	95	47	D186 1180
1190	11.9	102	51	D186 1190
1200	12.0	102	51	D186 1200
1210	12.1	102	51	D186 1210
1220	12.2	102	51	D186 1220
1230	12.3	102	51	D186 1230
1240	12.4	102	51	D186 1240
1250	12.5	102	51	D186 1250
1260	12.6	102	51	D186 1260
1270	12.7	102	51	D186 1270
1280	12.8	102	51	D186 1280
1290	12.9	102	51	D186 1290
1300	13.0	102	51	D186 1300

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D186	●	●	●	●	○	●	●	○		●			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D186	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D186	○	○							○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D186																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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suttontools

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- Rigid twist drill
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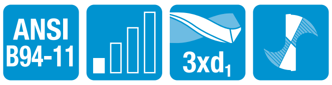
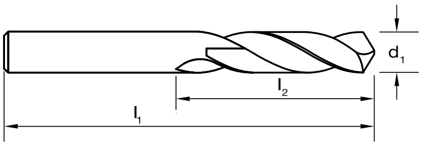
Forets queue cylindre court
- Forets rigide
- Auto centrant
- Pour utilisation sur tours automatique et machines à main

Punte Stub, Blu
- Elica punta rigida
- Geometria auto centrante
- Progettata per uso con tornio automatico e foratrice manuale

Broca Stub, Blu
- Broca helicoidal rígida
- Geometría de punta autocentrante.
- Para uso en tornos automáticos y máquinas de taladrado manuales.





Catalogue Code	D100
Discount Group	A1002
Material	HSS
Surface Finish	Blu
Sutton Designation	Ferrous Materials
Geometry	R30
Point Type	118° Form C
Order Quantity	Bulk 10 (5 > 19/64)

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0150*	**1.50**		41	16	D100 0150
0159	1.59	**1/16**	41	16	D100 0159
0198	1.98	**5/64**	43	17	D100 0198
0238	2.38	**3/32**	44	19	D100 0238
0278	2.78	**7/64**	46	21	D100 0278
0318	3.18	**1/8**	48	22	D100 0318
0357	3.57	**9/64**	49	24	D100 0357
0397	3.97	**5/32**	52	25	D100 0397
0437	4.37	**11/64**	54	27	D100 0437
0450*	**4.50**		54	27	D100 0450
0476	4.76	**3/16**	56	29	D100 0476
0500*	**5.00**		60	30	D100 0500
0516	5.16	**13/64**	57	30	D100 0516
0556	5.56	**7/32**	60	32	D100 0556
0595	5.95	**15/64**	62	33	D100 0595
0600*	**6.00**		64	34	D100 0600
0635	6.35	**1/4**	64	35	D100 0635
0676	6.76	**17/64**	67	37	D100 0676
0714	7.14	**9/32**	68	38	D100 0714
0754	7.54	**19/64**	70	40	D100 0754
0794	7.94	**5/16**	71	41	D100 0794
0833	8.33	**21/64**	75	43	D100 0833
0873	8.73	**11/32**	76	43	D100 0873
0900*	**9.00**		79	46	D100 0900
0913	9.13	**23/64**	78	48	D100 0913
0953	9.53	**3/8**	79	46	D100 0953
0992	9.92	**25/64**	83	48	D100 0992
1032	10.32	**13/32**	84	49	D100 1032
1050*	**10.50**		87	52	D100 1050
1072	10.72	**27/64**	86	51	D100 1072

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D100	●	●	●	●	○	●	●	○		●				○	○	

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D100	○	○	○	○	○	○	○	○							○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D100																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

*Not available once current stock is depleted

NOTE: HB & HE shanks available, subject to lead time.

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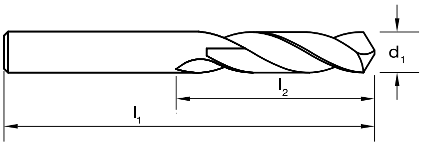
Broca Stub, Blu
- Broca helicoidal rígida
- Geometría de punta autocentrante.
- Para uso en tornos automáticos y máquinas de taladrado manuales.

ANSI B94-11

3xd1



Catalogue Code	**D100**
Discount Group	A1002
Material	**HSS**
Surface Finish	*Blu*
Sutton Designation	**Ferrous Materials**
Geometry	R30
Point Type	118° Form C
Order Quantity	Bulk 10 (5 > 19/64)

Size Ref.	d_1 (h8)		l_1	l_2	Item #
1111	11.11	**7/16**	87	52	D100 1111
1150*	**11.50**		92	54	D100 1150
1151	11.51	**29/64**	90	54	D100 1151
1191	11.91	**15/32**	92	54	D100 1191
1231	12.31	**31/64**	94	56	D100 1231
1269	12.70	**1/2**	98	59	D100 1269
					D126
0326	**3.26**	**#30**	49	24	D126 0326
0409	**4.09**	**#20**	54	27	D126 0409
0485	**4.85**	**#11**	57	30	D126 0485

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D100	●	●	●	●	○	●	●	○		●			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D100	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D100	○	○							○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D100																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

*Not available once current stock is depleted

NOTE: HB & HE shanks available, subject to lead time.

Back to index

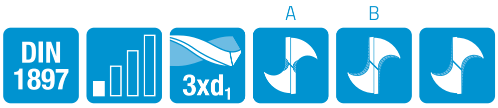
Drills Stub, CNC

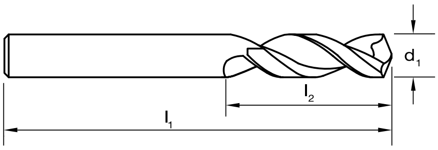
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- TiAlN for longer tool life

Forets queue cylindrique haute performance court CNC
- Forets Haute Performance
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° pour un parfait centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- TiAlN for longer tool life

Punte Stub, CNC
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- TiAlN per massimizzare vita utensile

Broca Stub, CNC
- Broca de alto rendimiento
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- TiAlN para una mayor vida útil de la herramienta.





Catalogue Code	D151
Discount Group	A1006
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130°
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Point	Item #
0100	1.0	26	6	A	D151 0100
0110	1.1	28	7	A	D151 0110
0120	1.2	30	8	A	D151 0120
0130	1.3	30	8	A	D151 0130
0140	1.4	32	9	A	D151 0140
0150	1.5	32	9	A	D151 0150
0160	1.6	34	10	A	D151 0160
0170	1.7	34	10	A	D151 0170
0180	1.8	36	11	A	D151 0180
0190	1.9	36	11	A	D151 0190
0200	2.0	38	12	B	D151 0200
0210	2.1	40	13	B	D151 0210
0220	2.2	40	13	B	D151 0220
0230	2.3	40	13	B	D151 0230
0240	2.4	43	14	B	D151 0240
0250	2.5	43	14	B	D151 0250
0260	2.6	43	14	B	D151 0260
0270	2.7	46	16	B	D151 0270
0280	2.8	46	16	B	D151 0280
0290	2.9	46	16	B	D151 0290
0300	3.0	46	16		D151 0300
0310	3.1	49	18		D151 0310
0320	3.2	49	18		D151 0320
0330	3.3	49	18		D151 0330
0340	3.4	52	20		D151 0340
0350	3.5	52	20		D151 0350
0360	3.6	52	20		D151 0360
0370	3.7	52	20		D151 0370

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0380	3.8	55	22	D151 0380
0390	3.9	55	22	D151 0390
0400	4.0	55	22	D151 0400
0410	4.1	55	22	D151 0410
0420	4.2	55	22	D151 0420
0430	4.3	58	24	D151 0430
0440	4.4	58	24	D151 0440
0450	4.5	58	24	D151 0450
0460	4.6	58	24	D151 0460
0470	4.7	58	24	D151 0470
0480	4.8	62	26	D151 0480
0490	4.9	62	26	D151 0490
0500	5.0	62	26	D151 0500
0510	5.1	62	26	D151 0510
0520	5.2	62	26	D151 0520
0530	5.3	62	26	D151 0530
0540	5.4	66	28	D151 0540
0550	5.5	66	28	D151 0550
0560	5.6	66	28	D151 0560
0570	5.7	66	28	D151 0570
0580	5.8	66	28	D151 0580
0590	5.9	66	28	D151 0590
0600	6.0	66	28	D151 0600
0610	6.1	70	31	D151 0610
0620	6.2	70	31	D151 0620
0630	6.3	70	31	D151 0630
0640	6.4	70	31	D151 0640
0650	6.5	70	31	D151 0650

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D151	●	●	●	●	●	●	●	●	○	●	○	○	○

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D151	○	○	●	●	●	●	●	●	●

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D151			●	●	●	○	○	○	○	

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D151											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D151					●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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suttontools

- High performance drill
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- Ideale per materiali fino a 1200N/mm²
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Broca Stub, CNC
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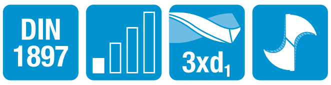

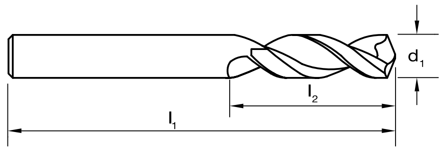

Catalogue Code	D151
Discount Group	A1006
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130°
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0660	6.6	70	31	D151 0660
0670	6.7	70	31	D151 0670
0680	6.8	74	34	D151 0680
0690	6.9	74	34	D151 0690
0700	7.0	74	34	D151 0700
0710	7.1	74	34	D151 0710
0720	7.2	74	34	D151 0720
0730	7.3	74	34	D151 0730
0740	7.4	74	34	D151 0740
0750	7.5	74	34	D151 0750
0760	7.6	79	37	D151 0760
0770	7.7	79	37	D151 0770
0780	7.8	79	37	D151 0780
0790	7.9	79	37	D151 0790
0800	8.0	79	37	D151 0800
0810	8.1	79	37	D151 0810
0820	8.2	79	37	D151 0820
0830	8.3	79	37	D151 0830
0840	8.4	79	37	D151 0840
0850	8.5	79	37	D151 0850
0860	8.6	84	40	D151 0860
0870	8.7	84	40	D151 0870
0880	8.8	84	40	D151 0880
0890	8.9	84	40	D151 0890
0900	9.0	84	40	D151 0900
0910	9.1	84	40	D151 0910
0920	9.2	84	40	D151 0920
0930	9.3	84	40	D151 0930
0940	9.4	84	40	D151 0940
0950	9.5	84	40	D151 0950
0960	9.6	89	43	D151 0960
0970	9.7	89	43	D151 0970
0980	9.8	89	43	D151 0980
0990	9.9	89	43	D151 0990
1000	10.0	89	43	D151 1000
1010	10.1	89	43	•
1020	10.2	89	43	D151 1020
1030	10.3	89	43	D151 1030
1040	10.4	89	43	D151 1040
1050	10.5	89	43	D151 1050
1060	10.6	95	47	D151 1060
1070	10.7	95	47	D151 1070
1080	10.8	95	47	D151 1080
1090	10.9	95	47	D151 1090
1100	11.0	95	47	D151 1100
1110	11.1	95	47	D151 1110
1120	11.2	95	47	•
1130	11.3	95	47	D151 1130
1140	11.4	95	47	D151 1140
1150	11.5	95	47	D151 1150
1160	11.6	95	47	•
1170	11.7	95	47	•
1180	11.8	95	47	D151 1180
1190	11.9	102	51	•
1200	12.0	102	51	D151 1200
1210	12.1	102	51	•

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D151	●	●	●	●	●	●	●	●	○	●	○	○	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D151			●	●	●	○	○	○	○																	●	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

Drills Stub, CNC

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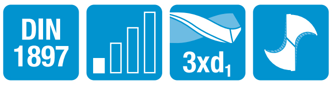
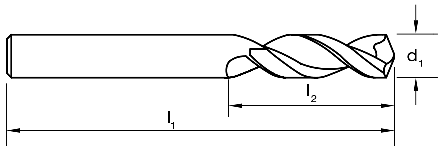




Catalogue Code	D151
Discount Group	A1006
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130°
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
1220	12.2	102	51	D151 1220
1230	12.3	102	51	•
1240	12.4	102	51	•
1250	12.5	102	51	D151 1250
1260	12.6	102	51	•
1270	12.7	102	51	D151 1270
1280	12.8	102	51	D151 1280
1290	12.9	102	51	D151 1290
1300	13.0	102	51	D151 1300
1350	13.5	107	54	D151 1350
1400	14.0	107	54	D151 1400
1450	14.5	111	56	D151 1450
1500	15.0	111	56	D151 1500
1550	15.5	115	58	D151 1550
1600	16.0	115	58	D151 1600
1650	16.5	119	60	D151 1650
1700	17.0	119	60	D151 1700
1750	17.5	123	62	D151 1750
1800	18.0	123	62	D151 1800
1850	18.5	127	64	D151 1850
1900	19.0	127	64	D151 1900
1950	19.5	131	66	D151 1950
2000	20.0	131	66	D151 2000

Size Ref.	d_1 (h8)	l_1	l_2	Pieces	Item #

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D151	●	●	●	●	●	●	●	●	○	●	○	○	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D151			●	●	●	○	○	○	○																	●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Stub, DXS

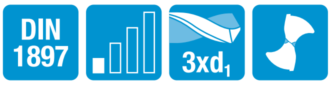
suttontools

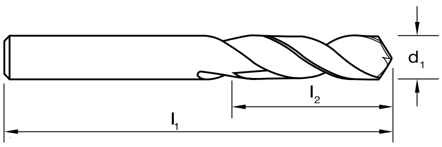
- High performance drill
- Suitable for materials up to 850N/mm²
- Special point geometry with radius cutting lips
- Produces short chips
- TiAIN for longer tool life

Forets queue cylindrique haute performance court DXS
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 850N/mm²
- Affûtage spécial avec rayon de coupe en bout
- Produit des copeaux courts
- Revêtement TiAIN pour une meilleure durée de vie

Punte Stub, DXS
- Punta ad alta prestazione
- Ideale per materiali fino a 850N/mm²
- Geometria di punta speciale con labbro di rinforzo tagliente
- Produce trucioli piccoli
- TiAIN per massimizzare vita utensile

Broca Stub, DXS
- Broca de alto rendimiento
- Adecuado para materiales de hasta 800N/mm²
- Geometría de punta especial con labios de corte radial.
- Produce virutas cortas.
- TiAIN para una mayor vida útil de la herramienta.





Catalogue Code	D177
Discount Group	A1006
Material	HSS Co
Surface Finish	TiAIN
Sutton Designation	WN
Geometry	R35
Point Type	130° Form A
Shank Tolerance	h9

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0100	1.0	26	6	D177 0100
0110	1.1	28	7	D177 0110
0120	1.2	30	8	D177 0120
0130	1.3	30	8	D177 0130
0140	1.4	32	9	D177 0140
0150	1.5	32	9	D177 0150
0160	1.6	34	10	D177 0160
0170	1.7	34	10	D177 0170
0180	1.8	36	11	D177 0180
0190	1.9	36	11	D177 0190
0200	2.0	38	12	D177 0200
0210	2.1	40	13	D177 0210
0220	2.2	40	13	D177 0220
0230	2.3	40	13	D177 0230
0240	2.4	43	14	D177 0240
0250	2.5	43	14	D177 0250
0260	2.6	43	14	D177 0260
0270	2.7	46	16	D177 0270
0280	2.8	46	16	D177 0280
0290	2.9	46	16	D177 0290
0300	3.0	46	16	D177 0300
0310	3.1	49	18	D177 0310
0320	3.2	49	18	D177 0320
0330	3.3	49	18	D177 0330
0340	3.4	52	20	D177 0340
0350	3.5	52	20	D177 0350
0360	3.6	52	20	D177 0360
0370	3.7	52	20	D177 0370
0380	3.8	55	22	D177 0380
0390	3.9	55	22	D177 0390
0400	4.0	55	22	D177 0400
0410	4.1	55	22	D177 0410

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0420	4.2	55	22	D177 0420
0430	4.3	58	24	D177 0430
0440	4.4	58	24	D177 0440
0450	4.5	58	24	D177 0450
0460	4.6	58	24	D177 0460
0470	4.7	58	24	D177 0470
0480	4.8	62	26	D177 0480
0490	4.9	62	26	D177 0490
0500	5.0	62	26	D177 0500
0510	5.1	62	26	D177 0510
0520	5.2	62	26	D177 0520
0530	5.3	62	26	D177 0530
0540	5.4	66	28	D177 0540
0550	5.5	66	28	D177 0550
0560	5.6	66	28	D177 0560
0570	5.7	66	28	D177 0570
0580	5.8	66	28	D177 0580
0590	5.9	66	28	D177 0590
0600	6.0	66	28	D177 0600
0610	6.1	70	31	D177 0610
0620	6.2	70	31	D177 0620
0630	6.3	70	31	D177 0630
0640	6.4	70	31	D177 0640
0650	6.5	70	31	D177 0650
0660	6.6	70	31	D177 0660
0670	6.7	70	31	D177 0670
0680	6.8	74	34	D177 0680
0690	6.9	74	34	D177 0690
0700	7.0	74	34	D177 0700
0710	7.1	74	34	D177 0710
0720	7.2	74	34	D177 0720
0730	7.3	74	34	D177 0730

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D177	●	●	●	●	○	●	○	○		○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D177	○	○	○						

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D177	●	●	●	●	○	●	○	●	○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D177																	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Stub, DXS

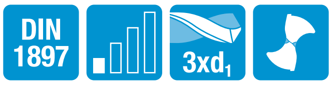
suttontools

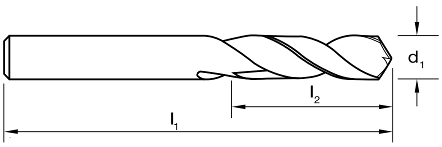
- High performance drill
- Suitable for materials up to 850N/mm²
- Special point geometry with radius cutting lips
- Produces short chips
- TiAlN for longer tool life

Broca Stub, DXS
- Broca de alto rendimiento
- Adecuado para materiales de hasta 800N/mm²
- Geometría de punta especial con labios de corte radial.
- Produce virutas cortas.
- TiAlN para una mayor vida útil de la herramienta.

Forets queue cylindrique haute performance court DXS
- Forets Haute Performance
- Utilisable dans les matériaux jusqu'à 850N/mm²
- Affûtage spécial avec rayon de coupe en bout
- Produit des copeaux courts
- Revêtement TiAlN pour une meilleure durée de vie

Punte Stub, DXS
- Punta ad alta prestazione
- Ideale per materiali fino a 850N/mm²
- Geometria di punta speciale con labbro di rinforzo tagliente
- Produce trucioli piccoli
- TiAlN per massimizzare vita utensile





Catalogue Code	D177
Discount Group	A1006
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	WN
Geometry	R35
Point Type	130° Form A
Shank Tolerance	h9

Size Ref.	d_1 (m7)	l_1	l_2	Item #
0740	7.4	74	34	D177 0740
0750	7.5	74	34	D177 0750
0760	7.6	79	37	D177 0760
0770	7.7	79	37	D177 0770
0780	7.8	79	37	D177 0780
0790	7.9	79	37	D177 0790
0800	8.0	79	37	D177 0800
0810	8.1	79	37	D177 0810
0820	8.2	79	37	D177 0820
0830	8.3	79	37	D177 0830
0840	8.4	79	37	D177 0840
0850	8.5	79	37	D177 0850
0860	8.6	84	40	D177 0860
0870	8.7	84	40	D177 0870
0880	8.8	84	40	D177 0880
0890	8.9	84	40	D177 0890
0900	9.0	84	40	D177 0900
0910	9.1	84	40	D177 0910
0920	9.2	84	40	D177 0920
0930	9.3	84	40	D177 0930
0940	9.4	84	40	D177 0940
0950	9.5	84	40	D177 0950
0960	9.6	89	43	D177 0960
0970	9.7	89	43	D177 0970
0980	9.8	89	43	D177 0980
0990	9.9	89	43	D177 0990
1000	10.0	89	43	D177 1000
1010	10.1	89	43	D177 1010
1020	10.2	89	43	D177 1020
1050	10.5	89	43	D177 1050
1080	10.8	95	47	D177 1080
1100	11.0	95	47	D177 1100

Size Ref.	Range			Pieces	Item #
1120	11.2	95	47		D177 1120
1150	11.5	95	47		D177 1150
1180	11.8	95	47		D177 1180
1200	12.0	102	51		D177 1200
1220	12.2	102	51		D177 1220
1250	12.5	102	51		D177 1250
1280	12.8	102	51		D177 1280
1300	13.0	102	51		D177 1300
1350	13.5	107	54		D177 1350
1400	14.0	107	54		D177 1400
1450	14.5	111	56		D177 1450
1500	15.0	111	56		D177 1500
1550	15.5	115	58		D177 1550
1600	16.0	115	58		D177 1600
1650	16.5	119	60		D177 1650
1700	17.0	119	60		D177 1700
1750	17.5	123	62		D177 1750
1800	18.0	123	62		D177 1800
1850	18.5	127	64		D177 1850
1900	19.0	127	64		D177 1900
1950	19.5	131	66		D177 1950
2000	20.0	131	66		D177 2000

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D177	●	●	●	●	○	●	○	○		○				○	○	○							●	●	●	●	○	●	○	●	○																		

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Stub, R40 UNI

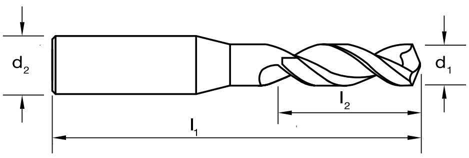
suttontools

- SPM offers superior performance
- Suitable for production drilling as an alternative to carbide drills
- Suitable for materials up to 1500N/mm²
- Point geometry ensures high strength & short chips
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance court, Hélice 40°, universel
- Substrat SPM pour une meilleure performance
- Adapté à la production de masse, une alternative au foret carbure
- Utilisable dans les matériaux jusqu'à 1500N/mm² et les Super Alliages
- Affûtage 4 faces, pour un meilleur centrage, produit des copeaux courts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punte Stub, R40 UNI
- SPM offre una prestazione superiore
- Ideale per foratura di produzione come alternativa al metallo duro
- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Broca Stub, R40 UNI
- SPM ofrece un rendimiento superior.
- Adecuado para taladrado de producción como alternativa a las brocas de metal duro.
- Adecuado para materiales de hasta 1500N/mm²
- La geometría de la punta garantiza alta resistencia y virutas cortas.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D155
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0100	1.0	38	6	3	D155 0100
0110	1.1	39	7	3	D155 0110
0120	1.2	40	8	3	D155 0120
0130	1.3	40	8	3	D155 0130
0140	1.4	41	9	3	D155 0140
0150	1.5	41	9	3	D155 0150
0160	1.6	42	10	3	D155 0160
0170	1.7	42	10	3	D155 0170
0180	1.8	43	11	3	D155 0180
0190	1.9	43	11	3	D155 0190
0200	2.0	44	12	3	D155 0200
0210	2.1	44	12	3	D155 0210
0220	2.2	45	13	3	D155 0220
0230	2.3	45	13	3	D155 0230
0240	2.4	46	14	3	D155 0240
0250	2.5	46	14	3	D155 0250
0260	2.6	46	14	3	D155 0260
0270	2.7	46	16	3	D155 0270
0280	2.8	46	16	3	D155 0280
0290	2.9	46	16	3	D155 0290
0300	3.0	46	16	3	D155 0300
0310	3.1	49	18	4	D155 0310
0320	3.2	49	18	4	D155 0320
0330	3.3	49	18	4	D155 0330
0340	3.4	52	20	4	D155 0340
0350	3.5	52	20	4	D155 0350
0360	3.6	52	20	4	D155 0360
0370	3.7	52	20	4	D155 0370

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
0380	3.8	55	22	4	D155 0380
0390	3.9	55	22	4	D155 0390
0400	4.0	55	22	4	D155 0400
0410	4.1	55	22	6	D155 0410
0420	4.2	55	22	6	D155 0420
0430	4.3	58	24	6	D155 0430
0440	4.4	58	24	6	D155 0440
0450	4.5	58	24	6	D155 0450
0460	4.6	58	24	6	D155 0460
0470	4.7	58	24	6	D155 0470
0480	4.8	62	26	6	D155 0480
0490	4.9	62	26	6	D155 0490
0500	5.0	62	26	6	D155 0500
0510	5.1	62	26	6	D155 0510
0520	5.2	62	26	6	D155 0520
0530	5.3	62	26	6	D155 0530
0540	5.4	66	28	6	D155 0540
0550	5.5	66	28	6	D155 0550
0560	5.6	66	28	6	D155 0560
0570	5.7	66	28	6	D155 0570
0580	5.8	66	28	6	D155 0580
0590	5.9	66	28	6	D155 0590
0600	6.0	66	28	6	D155 0600
0610	6.1	70	31	8	D155 0610
0620	6.2	70	31	8	D155 0620
0630	6.3	70	31	8	D155 0630
0640	6.4	70	31	8	D155 0640
0650	6.5	70	31	8	D155 0650

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D155	●	●	●	●	●	●	●	●	○	●	○	●	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D155	○	○	●	●		○	●	○	○				○				○					○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

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Punte Stub, R40 UNI

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- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
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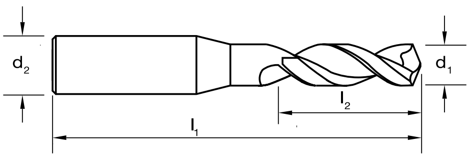
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D155
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (m7)	l_1	l_2	d_2	Item #
0660	**6.6**	70	31	8	D155 0660
0670	**6.7**	70	31	8	D155 0670
0680	**6.8**	74	34	8	D155 0680
0690	**6.9**	74	34	8	D155 0690
0700	**7.0**	74	34	8	D155 0700
0710	**7.1**	74	34	8	D155 0710
0720	**7.2**	74	34	8	D155 0720
0730	**7.3**	74	34	8	D155 0730
0740	**7.4**	74	34	8	D155 0740
0750	**7.5**	74	34	8	D155 0750
0760	**7.6**	79	37	8	D155 0760
0770	**7.7**	79	37	8	D155 0770
0780	**7.8**	79	37	8	D155 0780
0790	**7.9**	79	37	8	D155 0790
0800	**8.0**	79	37	8	D155 0800
0810	**8.1**	79	37	10	D155 0810
0820	**8.2**	79	37	10	D155 0820
0830	**8.3**	79	37	10	D155 0830
0840	**8.4**	79	37	10	D155 0840
0850	**8.5**	79	37	10	D155 0850
0860	**8.6**	84	40	10	D155 0860
0870	**8.7**	84	40	10	D155 0870
0880	**8.8**	84	40	10	D155 0880
0890	**8.9**	84	40	10	D155 0890
0900	**9.0**	84	40	10	D155 0900
0910	**9.1**	84	40	10	D155 0910
0920	**9.2**	84	40	10	D155 0920
0930	**9.3**	84	40	10	D155 0930
0940	**9.4**	84	40	10	D155 0940
0950	**9.5**	84	40	10	D155 0950
0960	**9.6**	89	43	10	D155 0960
0970	**9.7**	89	43	10	D155 0970
0980	**9.8**	89	43	10	D155 0980
0990	**9.9**	89	43	10	D155 0990
1000	**10.0**	89	43	10	D155 1000
1010	**10.1**	89	43	10	D155 1010
1020	**10.2**	89	43	10	D155 1020
1030	**10.3**	89	43	10	D155 1030
1040	**10.4**	89	43	10	D155 1040
1050	**10.5**	89	43	10	D155 1050
1060	**10.6**	95	47	12	D155 1060
1070	**10.7**	95	47	12	D155 1070
1080	**10.8**	95	47	12	D155 1080
1090	**10.9**	95	47	12	D155 1090
1100	**11.0**	95	47	12	D155 1100
1110	**11.1**	95	47	12	D155 1110
1120	**11.2**	95	47	12	D155 1120
1130	**11.3**	95	47	12	D155 1130
1140	**11.4**	95	47	12	D155 1140
1150	**11.5**	95	47	12	D155 1150
1160	**11.6**	95	47	12	D155 1160
1170	**11.7**	95	47	12	D155 1170
1180	**11.8**	95	47	12	D155 1180
1190	**11.9**	102	51	12	D155 1190
1200	**12.0**	102	51	12	D155 1200
1210	**12.1**	102	51	12	D155 1210

ISO	VDI 3323	D155
P	1	●
P	2	●
P	3	●
P	4	●
P	5	●
P	6	●
P	7	●
P	8	●
P	9	○
P	10	●
P	11	○
P	12	●
P	13	○
M	14.1	○
M	14.2	○
M	14.3	●
K	15	●
K	16	●
K	17	●
K	18	●
K	19	●
K	20	●
N	21	○
N	22	○
N	23	●
N	24	●
N	25	
N	26	○
N	27	●
N	28	○
N	29	○
N	30	
S	31	
S	32	
S	33	○
S	34	
S	35	
S	36	
S	37.1	○
S	37.2	
S	37.3	
S	37.4	
S	37.5	
H	38.1	○
H	38.2	
H	39.1	
H	39.2	
H	40	●
H	41	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Stub, R40 UNI

suttontools

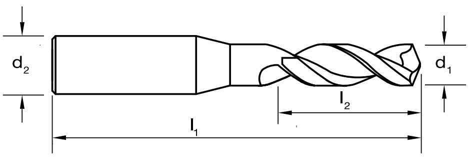
- SPM offers superior performance
- Suitable for production drilling as an alternative to carbide drills
- Suitable for materials up to 1500N/mm²
- Point geometry ensures high strength & short chips
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance court, Hélice 40°, universel
- Substrat SPM pour une meilleure performance
- Adapté à la production de masse, une alternative au foret carbure
- Utilisable dans les matériaux jusqu'à 1500N/mm² et les Super Alliages
- Affûtage 4 faces, pour un meilleur centrage, produit des copeaux courts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- Revêtement TiAlN pour une meilleure durée de vie

Punte Stub, R40 UNI
- SPM offre una prestazione superiore
- Ideale per foratura di produzione come alternativa al metallo duro
- Ideale per materiali fino a 1500N/mm²
- Geometria di punta per garantire un'elevata resistenza e trucioli corti
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Broca Stub, R40 UNI
- SPM ofrece un rendimiento superior.
- Adecuado para taladrado de producción como alternativa a las brocas de metal duro.
- Adecuado para materiales de hasta 1500N/mm²
- La geometría de la punta garantiza alta resistencia y virutas cortas.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.

~DIN 1897 | 3xd₁ | h7



Catalogue Code	D155
Discount Group	A1502
Material	SPM
Surface Finish	TiAlN
Sutton Designation	UNI
Geometry	R40
Point Type	130° 4 Facet Form B
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #
1220	12.2	102	51	12	D155 1220
1230	12.3	102	51	12	D155 1230
1240	12.4	102	51	12	D155 1240
1250	12.5	102	51	12	D155 1250
1260	12.6	102	51	12	D155 1260
1270	12.7	102	51	12	D155 1270
1280	12.8	102	51	12	D155 1280
1290	12.9	102	51	12	D155 1290
1300	13.0	102	51	12	D155 1300
1350	13.5	107	54	16	D155 1350
1400	14.0	107	54	16	D155 1400
1450	14.5	111	56	16	D155 1450
1500	15.0	111	56	16	D155 1500
1550	15.5	115	58	16	D155 1550
1600	16.0	115	58	16	D155 1600
1650	16.5	119	60	20	D155 1650
1700	17.0	119	60	20	D155 1700
1750	17.5	123	62	20	D155 1750
1800	18.0	123	62	20	D155 1800
1850	18.5	127	64	20	D155 1850
1900	19.0	127	64	20	D155 1900
1950	19.5	131	66	20	D155 1950
2000	20.0	131	66	20	D155 2000

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Item #

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D155	●	●	●	●	●	●	●	●	○	●	○	●	○	○	○	●	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D155	○	○	●	●		○	●	○	○				○				○					○				●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Stub, R40 VA *Black Magic*

suttontools
BLACKMAGIC

- High performance drill
- Excellent solution for austenitic stainless steels and most long chipping materials
- Optimised geometry ensures no work hardening and high productivity
- Endmill shank for greater accuracy
- TiAlN for longer tool life

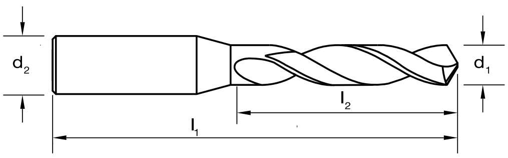
Forets queue cylindrique haute performance court, Hélice 40° VA, Black Magic
- Forets Haute Performance
- Excellente sollution pour les Inox et matériaux à copeaux longs
- Géométrie optimisée pour réduire les efforts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- TiAlN for longer tool life

Punte Stub, R40 VA Black Magic
- Punta ad alta prestazione
- Eccellente soluzione per acciai inossidalili e materiale di scarsa truciolabilità
- Geometria ottimizzata per lavorare intensamente ad alta produttività
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Stub, R40 UNI, VA, Black Magic
- Broca de alto rendimiento.
- Excelente solución para aceros inoxidables austeníticos y la mayoría de los materiales de viruta larga.
- La geometría optimizada que garantiza una alta productividad.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.

watch the video

DIN ~1897 | 3xd$_1$ | h7



Catalogue Code	D153
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Item #
0050	0.5	38	3	3	140°	D153 0050
0060	0.6	38	3.5	3	140°	D153 0060
0070	0.7	38	4.5	3	140°	D153 0070
0080	0.8	38	5	3	140°	D153 0080
0086	0.86	38	5.5	3	140°	•
0090	0.9	38	5.5	3	140°	D153 0090
0100	1.0	38	6	3	140°	D153 0100
0106	1.06	38	7	3	140°	•
0110	1.1	39	7	3	140°	D153 0110
0120	1.2	40	8	3	140°	D153 0120
0126	1.26	40	8	3	140°	•
0130	1.3	40	8	3	140°	D153 0130
0135	1.35	41	8	3	140°	•
0138	1.38	41	9	3	140°	•
0140	1.4	41	9	3	140°	D153 0140
0142	1.42	41	9	3	140°	•
0146	1.46	41	9	3	140°	•
0148	1.48	41	9	3	140°	•
0150	1.5	41	9	3	140°	D153 0150
0153	1.53	42	10	3	140°	•
0160	1.6	42	10	3	140°	D153 0160
0170	1.7	42	10	3	140°	D153 0170
0180	1.8	43	11	3	140°	D153 0180
0183	1.83	43	11	3	140°	•
0190	1.9	43	11	3	140°	D153 0190
0195	1.95	44	12	3	140°	D153 0195
0200	2.0	44	12	3	130°	D153 0200
0209	2.09	44	12	3	130°	•

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Item #
0210	2.1		44	12	3	130°	D153 0210
0220	2.2		45	13	3	130°	D153 0220
0226	2.26		45	13	3	130°	•
0230	2.3		45	13	3	130°	D153 0230
0240	2.4		46	14	3	130°	D153 0240
0250	2.5		46	14	3	130°	D153 0250
0260	2.6		46	14	3	130°	D153 0260
0270	2.7		46	16	3	130°	D153 0270
0276	2.76		46	16	3	130°	•
0280	2.8		46	16	3	130°	D153 0280
0285	2.85		46	16		130°	D153 0285
0290	2.9		46	16	3	130°	D153 0290
0300	3.0		46	16	3	130°	D153 0300
0310	3.1		49	18	4	130°	D153 0310
0318	3.18	1/8	49	18	4	130°	D153 0318
0320	3.2		49	18	4	130°	D153 0320
0330	3.3		49	18	4	130°	D153 0330
0340	3.4		52	20	4	130°	D153 0340
0350	3.5		52	20	4	130°	D153 0350
0357	3.57	9/64	52	20	4	130°	D153 0357
0360	3.6		52	20	4	130°	D153 0360
0370	3.7		52	20	4	130°	D153 0370
0378	3.78		52	20	4	130°	D153 0378
0380	3.8		55	22	4	130°	D153 0380
0390	3.9		55	22	4	130°	D153 0390
0397	3.97	5/32	55	22	4	130°	D153 0397
0400	4.0		55	22	4	130°	D153 0400
0410	4.1		55	22	6	120°	D153 0410

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D153	●	○	○	○		○	○					●	○	●	●	●						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D153	●	●	●	●		●		●	○								○	○		○							

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

Available in 0.01mm sizes up to 6.0mm on request • Available on request as special manufacture. Subject to lead time.

NOTE: HB & HE shanks available, subject to lead time.

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Drills Stub, R40 VA *Black Magic*

suttontools BLACKMAGIC

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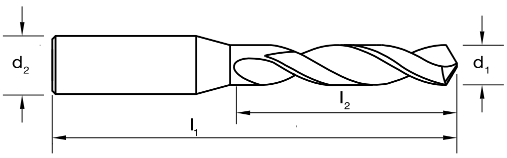
watch the video



Catalogue Code	D153
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet
Shank Tolerance	h7

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Item #
0420	4.2		55	22	6	120°	D153 0420
0430	4.3		58	24	6	120°	D153 0430
0437	4.37	11/64	58	24	6	120°	D153 0437
0440	4.4		58	24	6	120°	D153 0440
0450	4.5		58	24	6	120°	D153 0450
0460	4.6		58	24	6	120°	D153 0460
0465	4.65		58	24	6	120°	D153 0465
0470	4.7		58	24	6	120°	D153 0470
0476	4.76	3/16	62	26	6	120°	D153 0476
0478	4.78		62	26	6	120°	D153 0478
0480	4.8		62	26	6	120°	D153 0480
0490	4.9		62	26	6	120°	D153 0490
0500	5.0		62	26	6	120°	D153 0500
0505	5.05		62	26	6	120°	D153 0505
0510	5.1		62	26	6	120°	D153 0510
0516	5.16	13/64	62	26	6	120°	D153 0516
0520	5.2		62	26	6	120°	D153 0520
0530	5.3		62	26	6	120°	D153 0530
0540	5.4		66	28	6	120°	D153 0540
0550	5.5		66	28	6	120°	D153 0550
0555	5.55		66	28	6	120°	D153 0555
0556	5.56	7/32	66	28	6	120°	D153 0556
0560	5.6		66	28	6	120°	D153 0560
0565	5.65		66	28	6	120°	D153 0565
0570	5.7		66	28	6	120°	D153 0570
0580	5.8		66	28	6	120°	D153 0580
0590	5.9		66	28	6	120°	D153 0590
0595	5.95	15/64	66	28	6	120°	D153 0595

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Item #
0600	6.0		66	28	6	120°	D153 0600
0610	6.1		70	31	8	120°	D153 0610
0620	6.2		70	31	8	120°	D153 0620
0630	6.3		70	31	8	120°	D153 0630
0635	6.35	1/4	70	31	8	120°	D153 0635
0640	6.4		70	31	8	120°	D153 0640
0650	6.5		70	31	8	120°	D153 0650
0660	6.6		70	31	8	120°	D153 0660
0670	6.7		70	31	8	120°	D153 0670
0676	6.76	17/64	74	34	8	120°	D153 0676
0680	6.8		74	34	8	120°	D153 0680
0690	6.9		74	34	8	120°	D153 0690
0700	7.0		74	34	8	120°	D153 0700
0710	7.1		74	34	8	120°	D153 0710
0714	7.14	9/32	74	34	8	120°	D153 0714
0720	7.2		74	34	8	120°	D153 0720
0730	7.3		74	34	8	120°	D153 0730
0740	7.4		74	34	8	120°	D153 0740
0750	7.5		74	34	8	120°	D153 0750
0754	7.54	19/64	79	37	8	120°	D153 0754
0755	7.55		79	37	8	120°	D153 0755
0760	7.6		79	37	8	120°	D153 0760
0770	7.7		79	37	8	120°	D153 0770
0780	7.8		79	37	8	120°	D153 0780
0790	7.9		79	37	8	120°	D153 0790
0794	7.94	5/16	79	37	8	120°	D153 0794
0800	8.0		79	37	8	120°	D153 0800
0810	8.1		79	37	10	120°	D153 0810

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D153	●	○	○	○		○	○					●	○	●	●	●						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D153	●	●	●	●		●		●	○								○	○		○							

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Available in 0.01mm sizes up to 6.0mm on request

NOTE: HB & HE shanks available, subject to lead time.

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Drills Stub, R40 VA *Black Magic*

suttontools BLACKMAGIC

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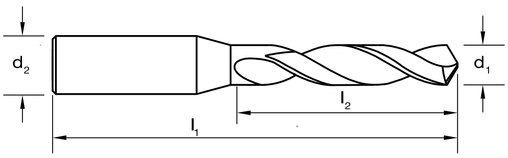
- TiAIN para una mayor vida útil de la herramienta.

watch the video

~DIN 1897 | 3xd1 | h7 | A



Catalogue Code	D153
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet
Shank Tolerance	h7

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #
0820	**8.2**	79	37	10	120°		D153 0820
0830	**8.3**	79	37	10	120°		D153 0830
0833	8.33 **21/64**	79	37	10	120°		D153 0833
0840	**8.4**	79	37	10	120°		D153 0840
0850	**8.5**	79	37	10	120°		D153 0850
0860	**8.6**	84	40	10	120°		D153 0860
0870	**8.7**	84	40	10	120°		D153 0870
0873	8.73 **11/32**	84	40	10	120°		D153 0873
0880	**8.8**	84	40	10	120°		D153 0880
0890	**8.9**	84	40	10	120°		D153 0890
0900	**9.0**	84	40	10	120°		D153 0900
0910	**9.1**	84	40	10	120°		D153 0910
0913	9.13 **23/64**	84	40	10	120°		D153 0913
0920	**9.2**	84	40	10	120°		D153 0920
0930	**9.3**	84	40	10	120°		D153 0930
0940	**9.4**	84	40	10	120°		D153 0940
0950	**9.5**	84	40	10	120°		D153 0950
0953	9.53 **3/8**	89	43	10	120°		D153 0953
0955	**9.55**	89	43	10	120°		D153 0955
0960	**9.6**	89	43	10	120°		D153 0960
0970	**9.7**	89	43	10	120°		D153 0970
0980	**9.8**	89	43	10	120°		D153 0980
0990	**9.9**	89	43	10	120°		D153 0990
0992	9.92 **25/64**	89	43	10	120°		D153 0992
1000	**10.0**	89	43	10	120°		D153 1000
1010	**10.1**	89	43	10	120°		D153 1010
1020	**10.2**	89	43	10	120°		D153 1020
1030	**10.3**	89	43	10	120°		D153 1030

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #
1032	10.32 **13/32**	89	43	10	120°		D153 1032
1040	**10.4**	89	43	10	120°		D153 1040
1050	**10.5**	89	43	10	120°		D153 1050
1060	**10.6**	89	43	12	120°		D153 1060
1070	**10.7**	95	47	12	120°		D153 1070
1072	10.72 **27/64**	95	47	12	120°		D153 1072
1080	**10.8**	95	47	12	120°		D153 1080
1090	**10.9**	95	47	12	120°		D153 1090
1100	**11.0**	95	47	12	120°		D153 1100
1110	**11.1**	95	47	12	120°		D153 1110
1111	11.11 **7/16**	95	47	12	120°		D153 1111
1120	**11.2**	95	47	12	120°		D153 1120
1125	**11.25**	95	47	12	120°		D153 1125
1130	**11.3**	95	47	12	120°		D153 1130
1140	**11.4**	95	47	12	120°		D153 1140
1150	**11.5**	95	47	12	120°		D153 1150
1151	11.51 **29/64**	95	47	12	120°		D153 1151
1160	**11.6**	95	47	12	120°		D153 1160
1170	**11.7**	95	47	12	120°		D153 1170
1180	**11.8**	95	47	12	120°		D153 1180
1190	**11.9**	102	51	12	120°		D153 1190
1191	11.91 **15/32**	102	51	12	120°		D153 1191
1200	**12.0**	102	51	12	120°		D153 1200
1210	**12.1**	102	51	12	120°		D153 1210
1220	**12.2**	102	51	12	120°		D153 1220
1230	**12.3**	102	51	12	120°		D153 1230
1231	12.3 **31/64**	102	51	12	120°		D153 1231
1240	**12.4**	102	51	12	120°		D153 1240

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D153	●	○	○	○		○	○					●	○	●	●	●						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D153	●	●	●	●		●		●	○								○	○		○							

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

Available in 0.01mm sizes up to 6.0mm on request

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Stub, R40 VA *Black Magic*

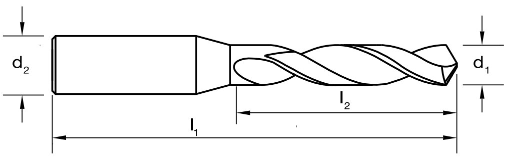
- High performance drill
- Excellent solution for austenitic stainless steels and most long chipping materials
- Optimised geometry ensures no work hardening and high productivity
- Endmill shank for greater accuracy
- TiAlN for longer tool life

Forets queue cylindrique haute performance court, Hélice 40° VA, Black Magic
- Forets Haute Performance
- Excellente sollution pour les Inox et matériaux à copeaux longs
- Géométrie optimisée pour réduire les efforts
- Queue cylindrique de plus gros diamètre pour une meilleure stabilité
- TiAlN for longer tool life

Punte Stub, R40 VA Black Magic
- Punta ad alta prestazione
- Eccellente soluzione per acciai inossidalili e materiale di scarsa truciolabilità
- Geometria ottimizzata per lavorare intensamente ad alta produttività
- Precisione gambo di attacco paritetica a Gambo Frese
- TiAlN per massimizzare vita utensile

Brocas Stub, R40 UNI, VA, Black Magic
- Broca de alto rendimiento.
- Excelente solución para aceros inoxidables austeníticos y la mayoría de los materiales de viruta larga.
- La geometría optimizada que garantiza una alta productividad.
- Mango de mayor precisión.
- TiAlN para una mayor vida útil de la herramienta.

watch the video



Catalogue Code	D153
Discount Group	A1502
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	VA
Geometry	R40
Point Type	4 Facet
Shank Tolerance	h7

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Point Angle	Form	Item #
1250	**12.5**		102	51	12	120°		D153 1250
1260	**12.6**		102	51	12	120°		D153 1260
1270	**12.7**		102	51	12	120°		D153 1270
1269	12.7	**1/2**	102	51	12	120°		D153 1269
1280	**12.8**		102	51	12	120°		D153 1280
1290	**12.9**		102	51	12	120°		D153 1290
1300	**13.0**		102	51	12	120°		D153 1300
1350	**13.5**		107	54	16	120°	A	D153 1350
1400	**14.0**		107	54	16	120°	A	D153 1400
1450	**14.5**		111	56	16	120°	A	D153 1450
1500	**15.0**		111	56	16	120°	A	D153 1500
1550	**15.5**		115	58	16	120°	A	D153 1550
1600	**16.0**		115	58	16	120°	A	D153 1600
1650	**16.5**		119	60	20	120°	A	D153 1650
1700	**17.0**		119	60	20	120°	A	D153 1700
1750	**17.5**		123	62	20	120°	A	D153 1750
1800	**18.0**		123	62	20	120°	A	D153 1800
1850	**18.5**		127	64	20	120°	A	D153 1850
1900	**19.0**		127	64	20	120°	A	D153 1900
1950	**19.5**		131	66	20	120°	A	D153 1950
2000	**20.0**		131	66	20	120°	A	D153 2000

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Point Angle	Form	Item #

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D153	●	○	○	○		○	○					●	○	●	●	●						

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D153	●	●	●	●		●		●	○								○	○		○							

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suttontools

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Forets queue cylindrique long
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Brocas serie larga
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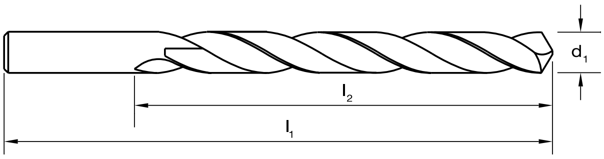
- Recomendado solo para taladradoras controladas.



Catalogue Code	**D113**
Discount Group	A0502
Material	**HSS**
Surface Finish	***Blu***
Sutton Designation	**Long Reach**
Geometry	R30
Point Type	118° Standard
Order Quantity	10

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0100	**1.00**		57	29	D113 0100
0110	**1.10**		57	29	D113 0110
0120	**1.20**		76	44	D113 0120
0130	**1.30**		76	44	D113 0130
0140	**1.40**		76	44	D113 0140
0150	**1.50**		76	44	D113 0150
0159	1.59	**1/16**	76	44	D113 0159
0160	**1.60**		95	51	D113 0160
0170	**1.70**		95	51	D113 0170
0180	**1.80**		95	51	D113 0180
0190	**1.90**		95	51	D113 0190
0198	1.98	**5/64**	95	51	D113 0198
0200	**2.00**		108	57	D113 0200
0210	**2.10**		108	57	D113 0210
0220	**2.20**		108	57	D113 0220
0230	**2.30**		108	57	D113 0230
0238	2.38	**3/32**	108	57	D113 0238
0240	**2.40**		108	57	D113 0240
0250	**2.50**		117	64	D113 0250
0260	**2.60**		117	64	D113 0260
0270	**2.70**		117	64	D113 0270
0278	2.78	**7/64**	117	64	D113 0278
0280	**2.80**		117	64	D113 0280
0290	**2.90**		117	64	D113 0290
0300	**3.00**		130	70	D113 0300
0310	**3.10**		130	70	D113 0310
0318	3.18	**1/8**	130	70	D113 0318
0320	**3.20**		130	70	D113 0320
0330	**3.30**		137	76	D113 0330
0340	**3.40**		137	76	D113 0340

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D113	●	●	●	●		●	○			○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D113	○			○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D113	○	○								

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D113											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D113					○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

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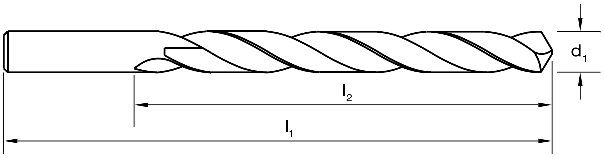

Catalogue Code	**D113**
Discount Group	A0502
Material	**HSS**
Surface Finish	***Blu***
Sutton Designation	**Long Reach**
Geometry	R30
Point Type	118° Standard
Order Quantity	10

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0350	**3.50**		137	76	D113 0350
0357	3.57	**9/64**	137	76	D113 0357
0360	**3.60**		137	76	D113 0360
0370	**3.70**		137	76	D113 0370
0380	**3.80**		137	76	D113 0380
0390	**3.90**		137	76	D113 0390
0397	3.97	**5/32**	137	76	D113 0397
0400	**4.00**		146	86	D113 0400
0410	**4.10**		146	86	D113 0410
0420	**4.20**		146	86	D113 0420
0430	**4.30**		146	86	D113 0430
0437	4.37	**11/64**	146	86	D113 0437
0440	**4.40**		146	86	D113 0440
0450	**4.50**		146	86	D113 0450
0460	**4.60**		146	86	D113 0460
0470	**4.70**		146	86	D113 0470
0476	4.76	**3/16**	146	86	D113 0476
0480	**4.80**		146	86	D113 0480
0490	**4.90**		146	86	D113 0490
0500	**5.00**		152	92	D113 0500
0510	**5.10**		152	92	D113 0510
0516	5.16	**13/64**	152	92	D113 0516
0520	**5.20**		152	92	D113 0520
0530	**5.30**		152	92	D113 0530
0540*	**5.40**		152	92	D113 0540
0550	**5.50**		152	92	D113 0550
0556	5.56	**7/32**	152	92	D113 0556
0560	**5.60**		152	92	D113 0560
0570	**5.70**		152	92	D113 0570
0580	**5.80**		152	92	D113 0580

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D113	●	●	●	●		●	○			○				○		

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D113	○	○	○	○	○	○	○	○								

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D113																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

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suttontools

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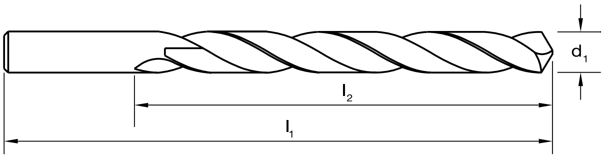

Catalogue Code	**D113**
Discount Group	A0502
Material	HSS
Surface Finish	*Blu*
Sutton Designation	**Long Reach**
Geometry	R30
Point Type	118° Standard
Order Quantity	10

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0590	**5.90**		152	92	D113 0590
0595	5.95	**15/64**	156	95	D113 0595
0600	**6.00**		156	95	D113 0600
0610	**6.10**		156	95	D113 0610
0620	**6.20**		156	95	D113 0620
0630	**6.30**		156	95	D113 0630
0635	6.35	**1/4**	156	95	D113 0635
0640	**6.40**		156	95	D113 0640
0650	**6.50**		159	98	D113 0650
0660	**6.60**		159	98	D113 0660
0670	**6.70**		159	98	D113 0670
0676	6.75	**17/64**	159	98	D113 0676
0680	**6.80**		159	98	D113 0680
0690	**6.90**		159	98	D113 0690
0700	**7.00**		159	98	D113 0700
0710	**7.10**		159	98	D113 0710
0714	7.14	**9/32**	159	98	D113 0714
0720	**7.20**		159	98	D113 0720
0730	**7.30**		159	98	D113 0730
0740	**7.40**		159	98	D113 0740
0750	**7.50**		162	102	D113 0750
0754	7.54	**19/64**	162	102	D113 0754
0760	**7.60**		162	102	D113 0760
0770*	**7.70**		162	102	D113 0770
0780	**7.80**		162	102	D113 0780
0790	**7.90**		162	102	D113 0790
0794	7.94	**5/16**	162	102	D113 0794
0800	**8.00**		165	105	D113 0800
0810	**8.10**		165	105	D113 0810
0820	**8.20**		165	105	D113 0820

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D113	●	●	●	●		●	○			○				○			○	○	○	○	○	○	○	○																								○	

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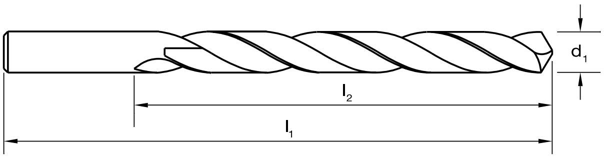

Catalogue Code	D113
Discount Group	A0502
Material	HSS
Surface Finish	Blu
Sutton Designation	Long Reach
Geometry	R30
Point Type	118° Standard
Order Quantity	10

Size Ref.	d_1 (h8)		l_1	l_2	Item #
0830	**8.30**		165	105	D113 0830
0833	8.33	**21/64**	165	105	D113 0833
0840	**8.40**		165	105	D113 0840
0850	**8.50**		165	105	D113 0850
0860	**8.60**		165	105	D113 0860
0870	**8.70**		165	105	D113 0870
0873	8.73	**11/32**	165	105	D113 0873
0880*	**8.80**		171	108	D113 0880
0890	**8.90**		171	108	D113 0890
0900	**9.00**		171	108	D113 0900
0910	**9.10**		171	108	D113 0910
0913	9.13	**23/64**	171	108	D113 0913
0920	**9.20**		171	108	D113 0920
0930*	**9.30**		171	108	D113 0930
0940	**9.40**		171	108	D113 0940
0950	**9.50**		171	108	D113 0950
0953	9.52	**3/8**	171	108	D113 0953
0960	**9.60**		171	108	D113 0960
0970	**9.70**		171	108	D113 0970
0980	**9.80**		171	108	D113 0980
0990	**9.90**		171	108	D113 0990
0992	9.92	**25/64**	178	111	D113 0992
1000	**10.00**		178	111	D113 1000
1010	**10.10**		178	111	D113 1010
1020	**10.20**		178	111	D113 1020
1030	**10.30**		178	111	D113 1030
1032	10.32	**13/32**	178	111	D113 1032
1040	**10.40**		178	111	D113 1040
1050	**10.50**		184	117	D113 1050
1060	**10.60**		184	117	D113 1060

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D113	●	●	●	●		●	○			○				○			○	○	○	○	○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D113	○	○																								○	

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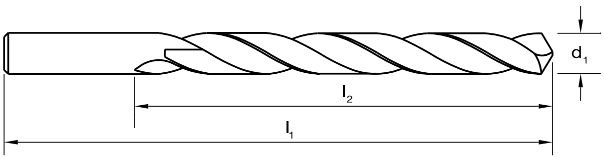

Catalogue Code	D113
Discount Group	A0502
Material	HSS
Surface Finish	Blu
Sutton Designation	Long Reach
Geometry	R30
Point Type	118° Standard
Order Quantity	10

Size Ref.	d_1 (h8)		l_1	l_2	Item #
1070	10.70		184	117	D113 1070
1072	10.72	27/64	184	117	D113 1072
1080	10.80		184	117	D113 1080
1090	10.90		184	117	D113 1090
1100	11.00		184	117	D113 1100
1110	11.10		184	117	D113 1110
1111	11.11	7/16	184	117	D113 1111
1120	11.20		184	117	D113 1120
1130	11.30		184	117	D113 1130
1140	11.40		184	117	D113 1140
1150	11.50		184	117	D113 1150
1151	11.51	29/64	191	121	D113 1151
1160	11.60		184	117	D113 1160
1170	11.70		184	117	D113 1170
1180	11.80		184	117	D113 1180
1190	11.90		184	117	D113 1190
1191	11.91	15/32	191	121	D113 1191
1200	12.00		197	121	D113 1200
1210	12.10		197	121	D113 1210
1220	12.20		197	121	D113 1220
1230	12.30		197	121	D113 1230
1231	12.30	31/64	197	121	D113 1231
1240	12.40		197	121	D113 1240
1250	12.50		197	121	D113 1250
1260	12.60		197	121	D113 1260
1269	12.70	1/2	197	121	D113 1269
1270	12.70		197	121	D113 1270
1280	12.80		203	121	D113 1280
1290	12.90		203	121	D113 1290
1300	13.00		203	121	D113 1300

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D113	●	●	●	●		●	○			○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D113	○			○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D113	○	○								

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D113											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D113					○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Long Series, DHL

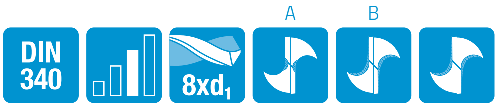
suttontools

- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- Less pecking required over standard drills
- TiAlN for longer tool life

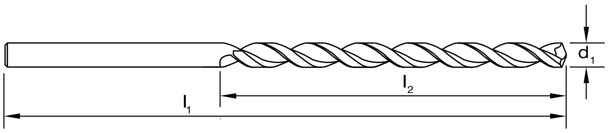
Forets queue cylindrique long, DHL
- Forets Haute performance pour perçage profond
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° et géométrie de pointe pour un meilleur centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- Perçage par pecking recommandé
- Revêtement TiAlN pour une meilleure durée de vie

Punte Serie Lunga, DHL
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- Non richiede scarico trucioli su fori standard
- TiAlN per massimizzare vita utensile

Brocas serie larga, DHL
- Broca de alto rendimiento.
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- Menos picoteos requeridos, en los taladrados estánda.r
- TiAlN para una mayor vida útil de la herramienta.



Catalogue Code	D171
Discount Group	A0508
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-



Size Ref.	d_1 (h8)	l_1	l_2	Point Form	Item #
0100†	1.0	56	33	A	D171 0100
0110†	1.1	60	37	A	D171 0110
0120†	1.2	65	41	A	D171 0120
0130†	1.3	65	41	A	D171 0130
0140†	1.4	70	45	A	D171 0140
0150†	1.5	70	45	A	D171 0150
0160†	1.6	76	50	A	D171 0160
0170†	1.7	76	50	A	D171 0170
0180†	1.8	80	53	A	D171 0180
0190†	1.9	80	53	A	D171 0190
0200†	2.0	85	56	B	D171 0200
0210†	2.1	85	56	B	D171 0210
0220†	2.2	90	59	B	D171 0220
0230†	2.3	90	59	B	D171 0230
0240†	2.4	95	62	B	D171 0240
0250†	2.5	95	62	B	D171 0250
0260†	2.6	95	62	B	D171 0260
0270†	2.7	100	66	B	D171 0270
0280†	2.8	100	66	B	D171 0280
0290†	2.9	100	66	B	D171 0290
0300	3.0	100	66		D171 0300
0310	3.1	106	69		D171 0310
0320	3.2	106	69		D171 0320
0330	3.3	106	69		D171 0330
0340	3.4	112	73		D171 0340
0350	3.5	112	73		D171 0350
0360	3.6	112	73		D171 0360
0370	3.7	112	73		D171 0370

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0380	3.8	119	78	D171 0380
0390	3.9	119	78	D171 0390
0400	4.0	119	78	D171 0400
0410	4.1	119	78	D171 0410
0420	4.2	119	78	D171 0420
0430	4.3	126	82	D171 0430
0440	4.4	126	82	D171 0440
0450	4.5	126	82	D171 0450
0460	4.6	126	82	D171 0460
0470	4.7	126	82	D171 0470
0480	4.8	132	87	D171 0480
0490	4.9	132	87	D171 0490
0500	5.0	132	87	D171 0500
0510	5.1	132	87	D171 0510
0520	5.2	132	87	D171 0520
0530	5.3	132	87	D171 0530
0540	5.4	139	91	D171 0540
0550	5.5	139	91	D171 0550
0560	5.6	139	91	D171 0560
0570	5.7	139	91	D171 0570
0580	5.8	139	91	D171 0580
0590	5.9	139	91	D171 0590
0600	6.0	139	91	D171 0600
0610	6.1	148	97	D171 0610
0620	6.2	148	97	D171 0620
0630	6.3	148	97	D171 0630
0640	6.4	148	97	D171 0640
0650	6.5	148	97	D171 0650

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D171	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D171			○	●	●	○	○		○																	●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

† Sizes <3.0 point type: 130° 4 Facet

NOTE: HB & HE shanks available, subject to lead time.

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suttontools

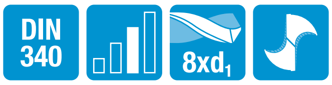
Drills Long Series, DHL

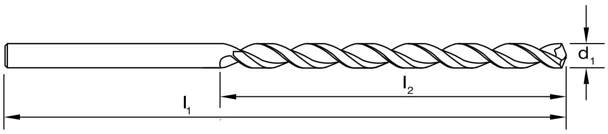
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- Less pecking required over standard drills
- TiAlN for longer tool life

Forets queue cylindrique long, DHL
- Forets Haute performance pour perçage profond
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° et géométrie de pointe pour un meilleur centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- Perçage par pecking recommandé
- Revêtement TiAlN pour une meilleure durée de vie

Punte Serie Lunga, DHL
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- Non richiede scarico trucioli su fori standard
- TiAlN per massimizzare vita utensile

Brocas serie larga, DHL
- Broca de alto rendimiento.
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- Menos picoteos requeridos, en los taladrados estánda.r
- TiAlN para una mayor vida útil de la herramienta.





Catalogue Code	D171
Discount Group	A0508
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0660	6.6	148	97	D171 0660
0670	6.7	148	97	D171 0670
0680	6.8	156	102	D171 0680
0690	6.9	156	102	D171 0690
0700	7.0	156	102	D171 0700
0710	7.1	156	102	D171 0710
0720	7.2	156	102	D171 0720
0730	7.3	156	102	D171 0730
0740	7.4	156	102	D171 0740
0750	7.5	156	102	D171 0750
0760	7.6	165	109	D171 0760
0770	7.7	165	109	D171 0770
0780	7.8	165	109	D171 0780
0790	7.9	165	109	D171 0790
0800	8.0	165	109	D171 0800
0810	8.1	165	109	D171 0810
0820	8.2	165	109	D171 0820
0830	8.3	165	109	D171 0830
0840	8.4	165	109	D171 0840
0850	8.5	165	109	D171 0850
0860	8.6	175	115	D171 0860
0870	8.7	175	115	D171 0870
0880	8.8	175	115	D171 0880
0890	8.9	175	115	D171 0890
0900	9.0	175	115	D171 0900
0910	9.1	175	115	D171 0910
0920	9.2	175	115	D171 0920
0930	9.3	175	115	D171 0930

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0940	9.4	175	115	D171 0940
0950	9.5	175	115	D171 0950
0980	9.8	184	121	D171 0980
1000	10.0	184	121	D171 1000
1020	10.2	184	121	D171 1020
1050	10.5	184	121	D171 1050
1100	11.0	195	128	D171 1100
1150	11.5	195	128	D171 1150
1200	12.0	205	134	D171 1200
1250	12.5	205	134	D171 1250
1300	13.0	205	134	D171 1300

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D171	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○	●	●	●	●	●	●

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D171			○	●	●	○	○		○																	●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Extra Long, DHXL-1

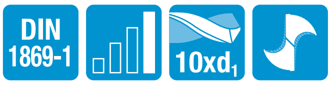
suttontools

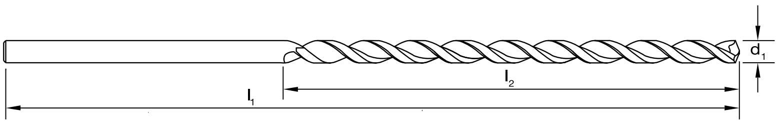
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- Less pecking required over standard drills
- TiAIN for longer tool life

Forets queue cylindrique long, DHXL-1
- Forets Haute performance pour perçage profond
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° et géométrie de pointe pour un meilleur centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- Perçage par pecking recommandé
- Revêtement TiAIN pour une meilleure durée de vie

Punte Extra Lunghe, DHXL-1
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- Non richiede scarico trucioli su fori standard
- TiAIN per massimizzare vita utensile

Brocas Extra Largas, D, DHXL-1
- Broca de alto rendimiento.
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- Menos picoteos requeridos, en los taladrados estánda.r
- TiAIN para una mayor vida útil de la herramienta.





Catalogue Code	D194
Discount Group	A0508
Material	HSS Co
Surface Finish	TiAIN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0200	2.0	125	85	D194 0200
0250	2.5	135	90	D194 0250
0300	3.0	155	105	D194 0300
0350	3.5	165	115	D194 0350
0400	4.0	175	120	D194 0400
0450	4.5	185	125	D194 0450
0500	5.0	195	135	D194 0500
0550	5.5	205	140	D194 0550
0600	6.0	205	140	D194 0600
0650	6.5	215	150	D194 0650
0700	7.0	225	155	D194 0700
0750	7.5	225	155	D194 0750
0800	8.0	240	165	D194 0800
0850	8.5	240	165	D194 0850
0900	9.0	250	175	D194 0900
0950	9.5	250	175	D194 0950
1000	10.0	265	185	D194 1000

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D194	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D194	●	●	●	●	●	●			○	●	●	○	○		○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D194																●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Extra Long, DHXL-2

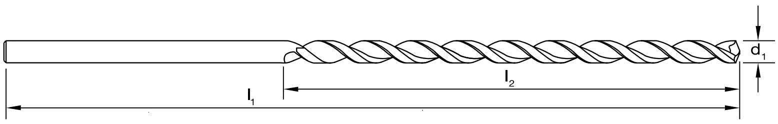
- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- Less pecking required over standard drills
- TiAIN for longer tool life

Forets queue cylindrique long, DHXL-2
- Forets Haute performance pour perçage profond
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° et géométrie de pointe pour un meilleur centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- Perçage par pecking recommandé
- Revêtement TiAIN pour une meilleure durée de vie

Punte Extra Lunghe, DHXL-2
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- Non richiede scarico trucioli su fori standard
- TiAIN per massimizzare vita utensile

Brocas Extra Largas, D, DHXL-2
- Broca de alto rendimiento.
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- Menos picoteos requeridos, en los taladrados estánda.r
- TiAIN para una mayor vida útil de la herramienta.

DIN 1869-2 | 12xd1



Catalogue Code	D195
Discount Group	A0508
Material	HSS Co
Surface Finish	TiAIN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0300	3.0	200	135	D195 0300
0350	3.5	210	145	D195 0350
0400	4.0	220	150	D195 0400
0450	4.5	235	160	D195 0450
0500	5.0	245	170	D195 0500
0550	5.5	260	180	D195 0550
0600	6.0	260	180	D195 0600
0650	6.5	275	190	D195 0650
0700	7.0	290	200	D195 0700
0750	7.5	290	200	D195 0750
0800	8.0	305	210	D195 0800
0850	8.5	305	210	D195 0850
0900	9.0	320	220	D195 0900
0950	9.5	320	220	D195 0950
1000	10.0	340	235	D195 1000

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D195	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○	●	●	●	●	●	●			○	●	●	○	○		○																	●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Extra Long, DHXL-3

suttontools

- High performance drill
- Suitable for materials up to 1200N/mm²
- Point geometry ensures high strength
- Parabolic flute design for optimal chip transportation
- Less pecking required over standard drills
- TiAlN for longer tool life

Forets queue cylindrique long, DHXL-3
- Forets Haute performance pour perçage profond
- Adaptés au matériaux jusqu'à 1200N/mm²
- Affûtage 130° et géométrie de pointe pour un meilleur centrage
- Taillage parabolique pour une meilleure évacuation copeaux.
- Perçage par pecking recommandé
- Revêtement TiAlN pour une meilleure durée de vie

Punte Extra Lunghe, DHXL-3
- Punta ad alta prestazione
- Ideale per materiali fino a 1200N/mm²
- Geometria di punta per garantire un'elevata resistenza
- Scalanatura tagliente progettato per ottima evaquazione truciolo
- Non richiede scarico trucioli su fori standard
- TiAlN per massimizzare vita utensile

Brocas Extra Largas, D, DHXL-3
- Broca de alto rendimiento.
- Adecuado para materiales de hasta 1200N/mm²
- La geometría de la punta garantiza una alta resistencia.
- Diseño de hélice parabólica para una evacuación óptima de la viruta.
- Menos picoteos requeridos, en los taladrados estánda.r
- TiAlN para una mayor vida útil de la herramienta.

DIN 1869-3

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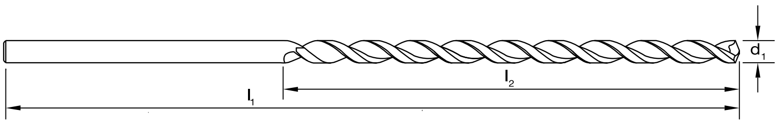


Catalogue Code	D196
Discount Group	A0508
Material	HSS Co
Surface Finish	TiAlN
Sutton Designation	NH
Geometry	R40
Point Type	130° Form B
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	Item #
0350	3.5	265	180	D196 0350
0400	4.0	280	190	D196 0400
0450	4.5	295	200	D196 0450
0500	5.0	315	210	D196 0500
0550	5.5	330	225	D196 0550
0600	6.0	330	225	D196 0600
0650	6.5	350	235	D196 0650
0700	7.0	370	250	D196 0700
0750	7.5	370	250	D196 0750
0800	8.0	390	265	D196 0800
0850	8.5	390	265	D196 0850
0900	9.0	410	280	D196 0900
0950	9.5	410	280	D196 0950
1000	10.0	430	295	D196 1000

ISO	P													M		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3
D196	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○

ISO	K						N									
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D196	●	●	●	●	●	●			○	●	●	○	○		○	

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D196																●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Morse Taper Shank

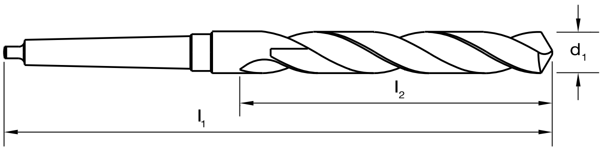
- General purpose drill
- Suitable for materials up to 900N/mm²

Forets queue cone morse
- Pour applications générales
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse
- Punta Universale
- Ideale per materiali fino a 900N/mm²

Brocas Mango Cono Morse
- Broca de uso general
- Adecuado para materiales de hasta 900N/mm²

ISO 235 | DIN 345



Catalogue Code	D115
Discount Group	A0702
Material	HSS
Surface Finish	Blu
Sutton Designation	N
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)		l_1	l_2	MT #	Item #
0318	3.18	**1/8**	117	37	1	D115 0318
0357	3.57	**9/64**	121	39	1	D115 0357
0397	3.97	**5/32**	123	43	1	D115 0397
0437	4.37	**11/64**	128	47	1	D115 0437
0476	4.76	**3/16**	133	52	1	D115 0476
0516	5.16	**13/64**	133	52	1	D115 0516
0550	**5.50**		138	57	1	D115 0550
0556	5.56	**7/32**	138	57	1	D115 0556
0595	5.95	**15/64**	138	57	1	D115 0595
0600	**6.00**		138	57	1	D115 0600
0635	6.35	**1/4**	144	63	1	D115 0635
0650	**6.50**		144	63	1	D115 0650
0676	6.75	**17/64**	144	63	1	D115 0676
0700	**7.00**		150	69	1	D115 0700
0714	7.14	**9/32**	150	69	1	D115 0714
0750	**7.50**		150	69	1	D115 0750
0754	7.54	**19/64**	156	75	1	D115 0754
0794	7.94	**5/16**	156	75	1	D115 0794
0800	**8.00**		156	75	1	D115 0800
0833	8.33	**21/64**	156	75	1	D115 0833
0850	**8.50**		156	75	1	D115 0850
0873	8.73	**11/32**	162	81	1	D115 0873
0900	**9.00**		162	81	1	D115 0900
0913	9.13	**23/64**	162	81	1	D115 0913
0950	**9.50**		162	81	1	D115 0950
0953	9.52	**3/8**	168	87	1	D115 0953
0992	9.92	**25/64**	168	87	1	D115 0992
1000	**10.00**		168	87	1	D115 1000
1032	10.32	**13/32**	168	87	1	D115 1032
1050	**10.50**		168	87	1	D115 1050
1072	10.72	**27/64**	175	94	1	D115 1072
1100	**11.00**		175	94	1	D115 1100
1111	11.11	**7/16**	175	94	1	D115 1111
1150	**11.50**		175	94	1	D115 1150
1151	11.51	**29/64**	175	94	1	D115 1151
1191	11.91	**15/32**	182	101	1	D115 1191
1200	**12.00**		182	101	1	D115 1200
1231	12.30	**31/64**	182	101	1	D115 1231
1250	**12.50**		182	101	1	D115 1250
1269	12.70	**1/2**	182	101	1	D115 1269
1300	**13.00**		182	101	1	D115 1300
1310	13.10	**33/64**	182	108	1	D115 1310
1349	13.49	**17/32**	189	108	1	D115 1349
1350	**13.50**		189	108	1	D115 1350
1389	13.89	**35/64**	189	108	1	D115 1389
1400	**14.00**		189	108	1	D115 1400
1429	14.29	**9/16**	212	114	2	D115 1429
1450	**14.50**		212	114	2	D115 1450
1468	14.68	**37/64**	212	114	2	D115 1468
1500	**15.00**		212	114	2	D115 1500
1508	15.08	**19/32**	218	120	2	D115 1508
1548	15.48	**39/64**	218	120	2	D115 1548
1550	**15.50**		218	120	2	D115 1550
1588	15.87	**5/8**	218	120	2	D115 1588
1600	**16.00**		218	120	2	D115 1600
1627	16.27	**41/64**	223	125	2	D115 1627

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D115	●	●	○	○	○	○	○	○		○				○			○	○	○	○	○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D115																										○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Morse Taper Shank

suttontools

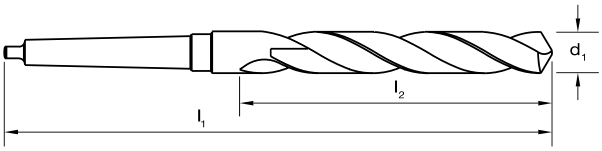
- General purpose drill
- Suitable for materials up to 900N/mm²

Forets queue cone morse
- Pour applications générales
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse
- Punta Universale
- Ideale per materiali fino a 900N/mm²

Brocas Mango Cono Morse
- Broca de uso general
- Adecuado para materiales de hasta 900N/mm²

ISO 235 | DIN 345



Catalogue Code	D115
Discount Group	A0702
Material	HSS
Surface Finish	*Blu*
Sutton Designation	**N**
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
1650	**16.50**	223	125	2	D115 1650
1667	16.67 **21/32**	223	125	2	D115 1667
1700	**17.00**	223	125	2	D115 1700
1707	17.06 **43/64**	228	130	2	D115 1707
1746	17.46 **11/16**	228	130	2	D115 1746
1750	**17.50**	228	130	2	D115 1750
1786	17.86 **45/64**	228	130	2	D115 1786
1800	**18.00**	228	130	2	D115 1800
1826	18.26 **23/32**	233	135	2	D115 1826
1850	**18.50**	233	135	2	D115 1850
1865	18.65 **47/64**	233	135	2	D115 1865
1900	**19.00**	233	135	2	D115 1900
1905	19.05 **3/4**	238	140	2	D115 1905
1945	19.45 **49/64**	238	140	2	D115 1945
1950	**19.50**	238	140	2	D115 1950
1984	19.84 **25/32**	238	140	2	D115 1984
2000	**20.00**	238	140	2	D115 2000
2024	20.24 **51/64**	243	145	2	D115 2024
2050	**20.50**	243	145	2	D115 2050
2064	20.64 **13/16**	243	145	2	D115 2064
2100	**21.00**	243	145	2	D115 2100
2103	21.03 **53/64**	243	145	2	D115 2103
2143	21.43 **27/32**	248	150	2	D115 2143
2150	**21.50**	248	150	2	D115 2150
2183	21.83 **55/64**	248	150	2	D115 2183
2200	**22.00**	248	150	2	D115 2200
2223	22.22 **7/8**	248	150	2	D115 2223
2250	**22.50**	253	155	2	D115 2250
2262	22.62 **57/64**	253	155	2	D115 2262
2300	**23.00**	253	155	2	D115 2300
2302	23.02 **29/32**	253	155	2	D115 2302
2342	23.41 **59/64**	276	155	3	D115 2342
2350	**23.50**	276	155	3	D115 2350
2381	23.81 **15/16**	281	160	3	D115 2381
2400	**24.00**	281	160	3	D115 2400
2421	24.21 **61/64**	281	160	3	D115 2421
2450	**24.50**	281	160	3	D115 2450
2461	24.61 **31/32**	281	160	3	D115 2461
2500	**25.00**	281	160	3	D115 2500
2501	25.00 **63/64**	286	165	3	D115 2501
2540	25.40 **1**	286	165	3	D115 2540
2550	**25.50**	286	165	3	D115 2550
2580	25.80 **1-1/64**	286	165	3	D115 2580
2600	**26.00**	286	165	3	D115 2600
2619	26.19 **1-1/32**	286	165	3	D115 2619
2650	**26.50**	286	165	3	D115 2650
2659	26.59 **1-3/64**	291	170	3	D115 2659
2699	26.99 **1-1/16**	291	170	3	D115 2699
2700	**27.00**	291	170	3	D115 2700
2738	27.38 **1-5/64**	291	170	3	D115 2738
2750	**27.50**	291	170	3	D115 2750
2778	27.78 **1-3/32**	291	170	3	D115 2778
2800	**28.00**	291	170	3	D115 2800
2818	28.18 **1-7/64**	296	175	3	D115 2818
2850	**28.50**	296	175	3	D115 2850
2858	28.57 **1-1/8**	296	175	3	D115 2858

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D115	●	●	○	○	○	○	○	○		○				○			○	○	○	○	○	○																										○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Morse Taper Shank

- General purpose drill
- Suitable for materials up to 900N/mm²

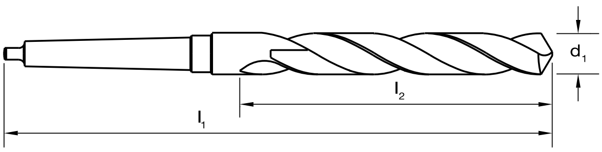
Forets queue cone morse
- Pour applications générales
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse
- Punta Universale
- Ideale per materiali fino a 900N/mm²

Brocas Mango Cono Morse
- Broca de uso general
- Adecuado para materiales de hasta 900N/mm²

ISO 235

DIN 345



Catalogue Code	D115
Discount Group	A0702
Material	HSS
Surface Finish	Blu
Sutton Designation	N
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
2897	28.97 **1-9/64**	296	175	3	D115 2897
2900	**29.00**	296	175	3	D115 2900
2937	29.36 **1-5/32**	296	175	3	D115 2937
2950	**29.50**	296	175	3	D115 2950
2977	29.77 **1-11/64**	296	175	3	D115 2977
3000	**30.00**	296	175	3	D115 3000
3016	30.16 **1-3/16**	301	180	3	D115 3016
3050	**30.50**	301	180	3	D115 3050
3056	30.56 **1-13/64**	301	180	3	D115 3056
3096	30.96 **1-7/32**	301	180	3	D115 3096
3100	**31.00**	301	180	3	D115 3100
3135	31.35 **1-15/64**	301	180	3	D115 3135
3150	**31.50**	301	180	3	D115 3150
3175	31.75 **1-1/4**	306	185	3	D115 3175
3200	**32.00**	334	185	4	D115 3200
3215*	32.15 **1-17/64**	334	185	4	D115 3215
3250	**32.50**	334	185	4	D115 3250
3300	**33.00**	334	185	4	D115 3300
3334	33.40 **1-5/16**	334	185	4	D115 3334
3350	**33.50**	334	185	4	D115 3350
3400	**34.00**	339	190	4	D115 3400
3450	**34.50**	339	190	4	D115 3450
3493	34.92 **1-3/8**	339	190	4	D115 3493
3500	**35.00**	339	190	4	D115 3500
3550	**35.50**	339	190	4	D115 3550
3600	**36.00**	344	195	4	D115 3600
3650	**36.50**	344	195	4	D115 3650
3700	**37.00**	344	195	4	D115 3700

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
3750	**37.50**	344	195	4	D115 3750
3800	**38.00**	349	200	4	D115 3800
3810	38.10 **1-1/2**	349	200	4	D115 3810
3850	**38.50**	349	200	4	D115 3850
3900	**39.00**	349	200	4	D115 3900
3950	**39.50**	349	200	4	D115 3950
4000	**40.00**	349	200	4	D115 4000
4050	**40.50**	354	205	4	D115 4050
4100	**41.00**	354	205	4	D115 4100
4128	41.27 **1-5/8**	354	205	4	D115 4128
4150	**41.50**	354	205	4	D115 4150
4200	**42.00**	354	205	4	D115 4200
4250	**42.50**	354	205	4	D115 4250
4300	**43.00**	359	210	4	D115 4300
4350	**43.50**	359	210	4	D115 4350
4400	**44.00**	359	210	4	D115 4400
4405	44.05 **1-47/64**	359	210	4	•
4445	44.45 **1-3/4**	359	210	4	D115 4445
4450	**44.50**	359	210	4	D115 4450
4485	44.85 **1-49/64**	359	210	4	•
4500	**45.00**	359	210	4	D115 4500
4550	**45.50**	364	215	4	D115 4550
4564	45.64 **1-51/64**	359	210	4	•
4600	**46.00**	364	215	4	D115 4600
4643	46.43 **1-53/64**	359	210	4	•
4650	**46.50**	364	215	4	D115 4650
4700	**47.00**	364	215	4	D115 4700
4723	47.23 **1-55/64**	359	210	4	•

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D115	●	●	○	○	○	○	○	○		○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D115	○			○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D115										

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D115																○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

*Not available once current stock is depleted

NOTE: HB & HE shanks available, subject to lead time.

Drills Morse Taper Shank

suttontools

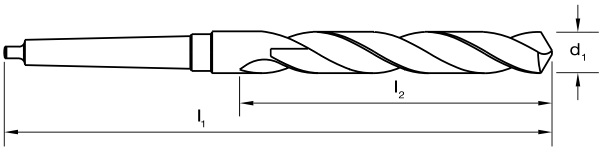
- General purpose drill
- Suitable for materials up to 900N/mm²

Forets queue cone morse
- Pour applications générales
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse
- Punta Universale
- Ideale per materiali fino a 900N/mm²

Brocas Mango Cono Morse
- Broca de uso general
- Adecuado para materiales de hasta 900N/mm²


ISO 235 | DIN 345



Catalogue Code	D115
Discount Group	A0702
Material	HSS
Surface Finish	Blu
Sutton Designation	N
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)		l_1	l_2	MT #	Item #
4750	**47.50**		364	215	4	D115 4750
4763	47.63	**1-7/8**	369	220	4	D115 4763
4800	**48.00**		369	220	4	D115 4800
4802	48.02	**1-57/64**	359	210	4	•
4850	**48.50**		369	220	4	D115 4850
4882	48.82	**1-59/64**	359	210	4	•
4900	**49.00**		369	220	4	D115 4900
4950	**49.50**		369	220	4	D115 4950
4961	49.61	**1-61/64**	359	210	4	•
5000	**50.00**		369	220	4	D115 5000
5004	50.04	**1-63/64**	359	210	4	•
5050	**50.50**		374	225	4	D115 5050
5080	50.80	**2**	374	225	4	D115 5080
5100	**51.00**		413	225	5	•
5159	51.59	**2-1/32**	413	225	5	D115 5159
5239	52.39	**2-1/16**	413	225	5	D115 5239
5398	53.98	**2-1/8**	413	225	5	D115 5398
5556	55.56	**2-3/16**	413	225	5	D115 5556
5715	57.15	**2-1/4**	413	225	5	D115 5715
5874	58.74	**2-5/16**	413	225	5	D115 5874
6033	60.32	**2-3/8**	429	241	5	D115 6033
6191	61.91	**2-7/16**	429	241	5	D115 6191
6350	63.50	**2-1/2**	432	244	5	D115 6350
6509	65.09	**2-9/16**	432	244	5	D115 6509
6668	66.67	**2-5/8**	432	244	5	D115 6668
6985	69.85	**2-3/4**	432	244	5	D115 6985
7620	76.20	**3**	432	244	5	D115 7620

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D115	●	●	○	○	○	○	○	○		○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D115	○			○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D115										

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D115											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D115					○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

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Drills Morse Taper Shank, *Heavy Duty*

suttontools

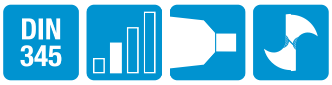
HEAVY DUTY COBALT

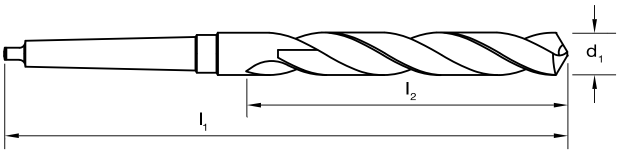
- General purpose cobalt drill
- Suitable for materials up to 1400N/mm²
- Cobalt content, ensures high abrasion resistance

Forets queue cone morse haute résistance
- Forets cobalt pour applications générales
- Adaptés au matériaux jusqu'à 1400N/mm²
- Haute résistance à l'abrasion

Punte Cono Morse, Heavy Duty
- Punta universale al cobalto
- Ideale per materiali duri fino a 850N/mm²
- Contiene Cobalto per assicurare alta resistenza all'abrasione

Brocas Mango Cono Morse, Diseño Robusto
- Broca con cobalto de uso general
- Adecuado para materiales de hasta 1400N/mm²
- Contenido de cobalto, garantiza una alta resistencia a la abrasión.





Catalogue Code	D141
Discount Group	A0702
Material	HSS Co
Surface Finish	*Colour Temp*
Sutton Designation	**Tough Materials**
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
1000	**10.00**	168	87	1	D141 1000
1050	**10.50**	168	87	1	D141 1050
1100	**11.00**	175	94	1	D141 1100
1150	**11.50**	175	94	1	D141 1150
1200	**12.00**	182	101	1	D141 1200
1250	**12.50**	182	101	1	D141 1250
1300	**13.00**	182	101	1	D141 1300
1350	**13.50**	189	108	1	D141 1350
1400	**14.00**	189	108	1	D141 1400
1450	**14.50**	212	114	2	D141 1450
1500	**15.00**	212	114	2	D141 1500
1550	**15.50**	218	120	2	D141 1550
1600	**16.00**	218	120	2	D141 1600
1650	**16.50**	223	125	2	D141 1650
1700	**17.00**	223	125	2	D141 1700
1750	**17.50**	228	130	2	D141 1750
1800	**18.00**	228	130	2	D141 1800
1850	**18.50**	233	135	2	D141 1850
1900	**19.00**	233	135	2	D141 1900
1950	**19.50**	238	140	2	D141 1950
2000	**20.00**	238	140	2	D141 2000
2050	**20.50**	243	145	2	D141 2050
2100	**21.00**	243	145	2	D141 2100
2150	**21.50**	248	150	2	D141 2150
2200	**22.00**	248	150	2	D141 2200
2250	**22.50**	253	155	2	D141 2250
2300	**23.00**	253	155	2	D141 2300
2350	**23.50**	276	155	3	D141 2350
2400	**24.00**	281	160	3	D141 2400
2450	**24.50**	281	160	3	D141 2450

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D141	●	●	●	●	○	●	●	○		○		○		●	●	○	●	○	●	○	●	○	○	○	○	○		○	○	○																		●	

P Steel **M** Stainless Steel Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Morse Taper Shank, *Heavy Duty*

suttontools

HEAVY DUTY COBALT

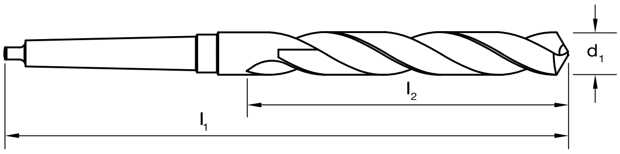
- General purpose cobalt drill
- Suitable for materials up to 1400N/mm²
- Cobalt content, ensures high abrasion resistance

Forets queue cone morse haute résistance
- Forets cobalt pour applications générales
- Adaptés au matériaux jusqu'à 1400N/mm²
- Haute résistance à l'abrasion

Punte Cono Morse, Heavy Duty
- Punta universale al cobalto
- Ideale per materiali duri fino a 850N/mm²
- Contiene Cobalto per assicurare alta resistenza all'abrasione

Brocas Mango Cono Morse, Diseño Robusto
- Broca con cobalto de uso general
- Adecuado para materiales de hasta 1400N/mm²
- Contenido de cobalto, garantiza una alta resistencia a la abrasión.

DIN 345



Catalogue Code	D141
Discount Group	A0702
Material	HSS Co
Surface Finish	*Colour Temp*
Sutton Designation	**Tough Materials**
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
2500	**25.00**	281	160	3	D141 2500
2550	**25.50**	286	165	3	D141 2550
2600	**26.00**	286	165	3	D141 2600
2650	**26.50**	286	165	3	D141 2650
2700	**27.00**	291	170	3	D141 2700
2750	**27.50**	291	170	3	D141 2750
2800	**28.00**	291	170	3	D141 2800
2850	**28.50**	296	175	3	D141 2850
2900	**29.00**	296	175	3	D141 2900
2950	**29.50**	296	175	3	D141 2950
3000	**30.00**	296	175	3	D141 3000
3050	**30.50**	301	180	3	D141 3050
3100	**31.00**	301	180	3	D141 3100
3150	**31.50**	301	180	3	D141 3150
3200	**32.00**	334	185	4	D141 3200

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D141	●	●	●	●	○	●	●	○		○		○		●	●	○	●	○	●	○	●	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D141	○	○	○	○		○	○	○																		●	

P Steel M Stainless Steel Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Morse Taper Shank, Long Series

suttontools

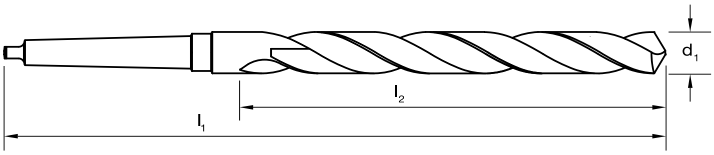
- General purpose drill
- For long reach applications
- Suitable for materials up to 900N/mm²

Forets queue cone morse, série longue
- Pour applications générales
- Pour perçages profonds
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse, Long Series
- Punta Universale
- Ideale per applicazioni di foratura lunga
- Ideale per materiali duri fino a 900N/mm²

Brocas Mango Cono Morse, Serie Larga
- Broca de uso general
- Para aplicaciones de taladrado profundo
- Adecuado para materiales de hasta 900N/mm²

DIN 341



Catalogue Code	D140
Discount Group	A0704
Material	HSS
Surface Finish	*Blu*
Sutton Designation	N
Geometry	R30
Point Type	118° Standard
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
1000	**10.00**	197	116	1	D140 1000
1050	**10.50**	197	116	1	D140 1050
1100	**11.00**	206	125	1	D140 1100
1150	**11.50**	206	125	1	D140 1150
1200	**12.00**	215	134	1	D140 1200
1250	**12.50**	215	134	1	D140 1250
1300	**13.00**	215	134	1	D140 1300
1350	**13.50**	223	142	1	D140 1350
1400	**14.00**	223	142	1	D140 1400
1450	**14.50**	245	147	2	D140 1450
1500	**15.00**	245	147	2	D140 1500
1550	**15.50**	251	153	2	D140 1550
1600	**16.00**	251	153	2	D140 1600
1650	**16.50**	257	159	2	D140 1650
1700	**17.00**	257	159	2	D140 1700
1750	**17.50**	263	165	2	D140 1750
1800	**18.00**	263	165	2	D140 1800
1850	**18.50**	269	171	2	D140 1850
1900	**19.00**	269	171	2	D140 1900
1950	**19.50**	275	177	2	D140 1950
2000	**20.00**	275	177	2	D140 2000
2050	**20.50**	282	184	2	D140 2050
2100	**21.00**	282	184	2	D140 2100
2150	**21.50**	289	191	2	D140 2150
2200	**22.00**	289	191	2	D140 2200
2250	**22.50**	296	198	2	D140 2250
2300	**23.00**	296	198	2	D140 2300
2350	**23.50**	319	198	3	D140 2350
2400	**24.00**	327	206	3	D140 2400
2450	**24.50**	327	206	3	D140 2450

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D140	●	●	○	○	○	○	○	○		○				○	○		○	○	○	○	○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D140																										○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Morse Taper Shank, Long Series

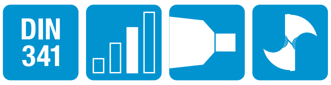
suttontools

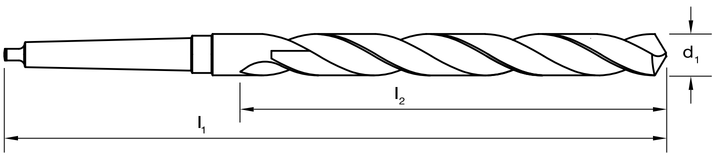
- General purpose drill
- For long reach applications
- Suitable for materials up to 900N/mm²

Forets queue cone morse, série longue
- Pour applications générales
- Pour perçages profonds
- Adaptés au matériaux jusqu'à 900N/mm²

Punte Cono Morse, Long Series
- Punta Universale
- Ideale per applicazioni di foratura lunga
- Ideale per materiali duri fino a 900N/mm²

Brocas Mango Cono Morse, Serie Larga
- Broca de uso general
- Para aplicaciones de taladrado profundo
- Adecuado para materiales de hasta 900N/mm²





Catalogue Code	**D140**
Discount Group	A0704
Material	**HSS**
Surface Finish	***Blu***
Sutton Designation	**N**
Geometry	R30
Point Type	118° Standard
Shank Tolerance	-

Size Ref.	d_1 (h8)	l_1	l_2	MT #	Item #
2500	**25.00**	327	206	3	D140 2500
2550	**25.50**	335	214	3	D140 2550
2600	**26.00**	335	214	3	D140 2600
2650	**26.50**	335	214	3	D140 2650
2700	**27.00**	343	222	3	D140 2700
2750	**27.50**	343	222	3	D140 2750
2800	**28.00**	343	222	3	D140 2800
2850	**28.50**	351	230	3	D140 2850
2900	**29.00**	351	230	3	D140 2900
2950	**29.50**	351	230	3	D140 2950
3000	**30.00**	351	230	3	D140 3000
3050	**30.50**	360	289	3	D140 3050
3100	**31.00**	360	239	3	D140 3100
3150	**31.50**	360	239	3	D140 3150
3200	**32.00**	397	248	4	D140 3200

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D140	●	●	○	○	○	○	○	○		○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D140	○	○		○	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D140										

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
D140											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
D140					○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Drills Morse Taper Accessories

Morse Taper Sleeve
- Hardened alloy steel
- Precision ground internally and externally

Drill Drift key - to eject Morse Taper drills from sleeves, sockets and machine spindles

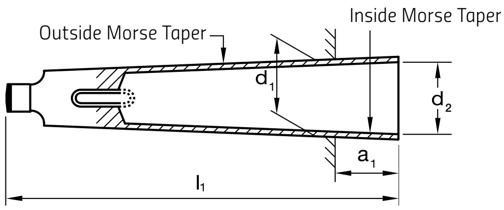
Accessoires pour Forets cône morse
Adapteurs cône morse
- Acier trempés
- Ejecteur de forets cône morse

Punte Cono Morse Accessori
Bussole riduzione
- Acciaio temprato
- Rettificato esternamente e internamente

Chiave per estrazione punta dal mandrino e dalla riduzione

Accesorios Brocas Mango Cono Morse
Mango Cono Morse
- Aleación de acero endurecido.
- Rectificado de precisión interno y externo.

Llave Drift Key: para extraer el cono morse del mango y husillo de la máquina.



Catalogue Code	D142	D118
Discount Group	A0702	A0702
Material	-	Alloyed Steel
Surface Finish	Brt	Brt
Sutton Designation	Drift	Sleeve
Geometry	-	-
Point Type	-	-
Shank Tolerance	-	-

Size Ref.	MT # (internal)	MT # (external)	d_1	l_1	a_1	d_2	Item #	Item #
0012	1	2	17.780	92	17	12.065		D118 0012
0013	1	3	23.825	99	5	12.065		D118 0013
0023	2	3	23.825	112	18	17.78		D118 0023
0014	(1)*	4	31.267	124	6.5	12.065		D118 0014
0024	2	4	31.267	124	6.5	17.78		D118 0024
0034	3	4	31.267	140	22.5	23.825		D118 0034
0015	(1)*	5	44.399	156	6.5	12.065		D118 0015
0025	(2)*	5	44.399	156	6.5	17.78		D118 0025
0035	3	5	44.399	156	6.5	23.825		D118 0035
0045	4	5	44.399	171	21.5	31.267		D118 0045
0036	3	6	63.348	218	8	23.825		D118 0036
0046	4	6	63.348	218	8	31.267		D118 0046
0056	5	6	63.348	218	8	44.399		D118 0056
MT1	MT #1 & #2						D142 MT1	
MT3	MT #3						D142 MT3	
MT4	MT #4						D142 MT4	
MT5	MT #5 & #6						D142 MT5	

*The use of sizes where inside taper is shown in brackets should be avoided wherever possible

NOTE: HB & HE shanks available, subject to lead time.

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Drills Reduced Shank

suttontools

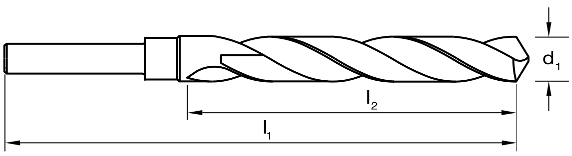
- General purpose drill with reduced shank
- Standard point geometry
- Designed for machine and hand held drilling
- Overall and flute lengths do not include drill point

Forets queue réduite
- Pour applications générales
- Affûtâge standard
- Adapté aux machines conventionnelles et à main
- Longueur utile totale l2 quotée sans la pointe

Punte Gambo Ridotto
- Punta universale con il gambo di presa ridotto
- Geometria di punta standard
- Progettata per lavorazione a macchina o manuale
- La lunghezza totale e la lunghezza tagliente non includono la geometria di punta

Brocas de Mango Reducido
- Broca de uso general con mango reducido.
- Geometría de punta estándar.
- Diseñado para máquinas y taladrado manual.
- Las longitudes totales de hélice, no incluyen punta autocentrante.

sutton



	D120	D188
Catalogue Code	D120	D188
Discount Group	A0906	A0906
Material	HSS	HSS
Surface Finish	Blu	Blu
Sutton Designation	N	N
Geometry	R30	R30
Point Type	118° Standard	118° Standard
Shank	10mm	12.5mm

Size Ref.	d_1 (h8)		l_1	l_2	Item #	Item #
1310	13.10	33/64	152	86		D188 1310
1349	13.49	17/32	152	86		D188 1349
1350	13.5		152	86		D188 1350
1389	13.89	35/64	152	86		D188 1389
1400	14.0		152	86		D188 1400
1429	14.29	9/16	152	86	D120 1429	D188 1429
1450	14.5		152	86		D188 1450
1468	14.68	37/64	152	86		D188 1468
1500	15.0		152	86		D188 1500
1508	15.08	19/32	152	86		D188 1508
1548	15.48	39/64	152	86		D188 1548
1550	15.5		152	86		D188 1550
1588	15.87	5/8	152	86	D120 1588	D188 1588
1600	16.0		152	86		D188 1600
1627	16.27	41/64	152	86		D188 1627
1650	16.5		152	86		D188 1650
1667	16.67	21/32	152	86		D188 1667
1700	17.0		152	86		D188 1700
1707	17.06	43/64	152	86		D188 1707
1746	17.46	11/16	152	86		D188 1746
1786	17.86	45/64	152	86		D188 1786
1750	17.5		152	86		D188 1750
1826	18.26	23/32	152	86		D188 1826
1865	18.65	47/64	152	86		D188 1865
1800	18.0		152	86		D188 1800
1850	18.5		152	86		D188 1850
1900	19.0		152	86		D188 1900
1905	19.05	3/4	152	86	D120 1905	D188 1905
1945	19.45	49/64	152	86		D188 1945
1950	19.5		152	86		D188 1950
1984	19.84	25/32	152	86		D188 1984
2000	20.0		152	86		D188 2000
2024	20.24	51/64	152	86		D188 2024
2050	20.5		152	86		D188 2050
2064	20.64	13/16	152	86		D188 2064
2100	21.0		152	86		D188 2100
2143	21.43	27/32	152	86		D188 2143
2150	21.5		152	86		D188 2150
2200	22.0		152	86		D188 2200
2223	22.22	7/8	152	86		D188 2223
2250	22.5		152	86		D188 2250
2262*	22.62	57/64	152	86		D188 2262
2300	23.0		152	86		D188 2300
2302	23.02	29/32	152	86		D188 2302
2350	23.5		152	86		D188 2350
2381	23.81	15/16	152	86		D188 2381
2400	24.0		152	86		D188 2400
2450	24.5		152	86		D188 2450
2461	24.61	31/32	152	86		D188 2461
2500	25.0		152	86		D188 2500
2540	25.40	1	152	86		D188 2540
2600	26.0		152	86		D188 2600
2699	26.99	1-1/16	152	86		D188 2699
2800	28.0		152	86		D188 2800
2858	28.57	1-1/8	152	86		D188 2858
3000	30.0		152	86		D188 3000

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
D120	●	●	○	○	○	●	○	○		○			
D188	●	●	○	○	○	●	○	○		○			

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
D120	○	○		○		○		○	
D188	○	○		○		○		○	

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
D120	●	●	○	○		○	○	○		
D188	●	●	○	○		○	○	○		

ISO	S											H					
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D120																○	
D188																○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

*Not available once current stock is depleted

NOTE: HB & HE shanks available, subject to lead time.

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Drills Reduced Shank

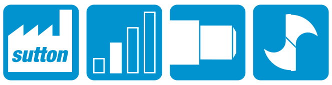
suttontools

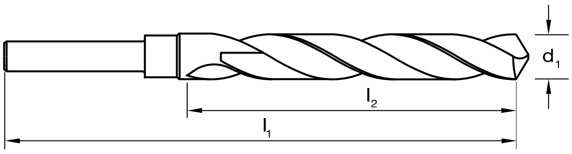
- General purpose drill with reduced shank
- Standard point geometry
- Designed for machine and hand held drilling
- Overall and flute lengths do not include drill point

Forets queue réduite
- Pour applications générales
- Affutâge standard
- Adapté aux machines conventionnelles et à main
- Longueur utile totale l2 quotée sans la pointe

Punte Gambo Ridotto
- Punta universale con il gambo di presa ridotto
- Geometria di punta standard
- Progettata per lavorazione a macchina o manuale
- La lunghezza totale e la lunghezza tagliente non includono la geometria di punta

Brocas de Mango Reducido
- Broca de uso general con mango reducido.
- Geometría de punta estándar.
- Diseñado para máquinas y taladrado manual.
- Las longitudes totales de hélice, no incluyen punta autocentrante.



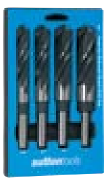


	D120	D188
Catalogue Code	D120	D188
Discount Group	A0906	A0906
Material	HSS	HSS
Surface Finish	*Blu*	*Blu*
Sutton Designation	**N**	**N**
Geometry	R30	R30
Point Type	118° Standard	118° Standard
Shank	10mm	12.5mm

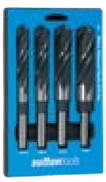
Size Ref.	d_1 (h8)		l_1	l_2	Item #	Item #
3016	30.16	**1-3/16**	152	86		D188 3016
3175	31.75	**1-1/4**	152	86		D188 3175

	Sets (Discount group A1202)	Case	Pieces	
RS4	**5/8, 3/4, 7/8, 1"**	Foam	4	D188 RS4
RS4M	**16, 18, 22, 25mm**	Foam	4	D188 RS4M
S8R	**9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"**	Plastic	8	D188 S8R
SM8R	**14, 15, 16, 16.5 , 18, 20, 22, 25mm**	Plastic	8	D188 SM8R
RS16	**17/32, 9/16,19/32, 5/8, 21/32, 11/16, 23/32, 3/4, 5/32, 13/16, 27/32, 7/8, 29/32, 15/16, 31/32, 1"**	Plastic	16	D188 RS16

Size Ref.	d_1 (h8)	l_1	l_2	Item #	Item #



D188 RS4



D188 RS4M

D188 SM8R

D188 RS16

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D120	●	●	○	○	○	●	○	○		○				○	○		○		○		○	
D188	●	●	○	○	○	●	○	○		○				○	○		○		○		○	

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D120	●	●	○	○		○	○	○																		○	
D188	●	●	○	○		○	○	○																		○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Drills Panel, Single Ended

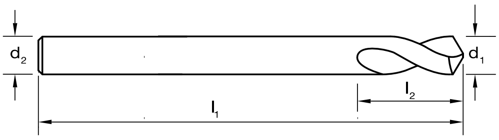
suttontools

- Rigid design for through hole drilling
- Ideal for rivet holes in sheet metal fabrication
- Recommended for shallow holes no deeper than 1-1/4 x d1

Forets court simple tête à panneaux
- Foret ridige
- Pour avant trous de rivets
- Profondeur maxi 1,25 X Dia

Punte Panello, Mono Testa
- Design Rigido per fori passanti
- Ideale per la foratura di lamiera di metallo
- Raccomandata per fori poco profondi al massimo 1-1/4 x d1

Broca Chapa, Una Puna
- Diseño rígido de doble extremo para taladrado de agujeros pasantes.
- Ideal para agujeros de remaches en la fabricación de chapa.
- Recomendado para agujeros poco profundos no más de: 1-1 / 4 x d1



Catalogue Code	D121	D124	D127
Discount Group	A0802	A0802	A0806
Material	HSS	HSS	HSS
Surface Finish	Brt	Blu	TiN
Sutton Designation	Non Ferrous	Ferrous	Tough Materials
Geometry	-	-	-
Point Type	135° Standard	135° Standard	135° Standard
Packaging & Order Quantity	Bulk (10)	Bulk (10)	1

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Rivet Size	Item #	Item #	Item #
0318	3.18	1/8	54	19	3.18	3.00	D121 0318	D124 0318	D127 0318
0326	3.26	#30	54	19	3.26	3.18 (1/8")	D121 0326	D124 0326	D127 0326
0409	4.09	#20	54	22	4.09	3.97 (5/32")	D121 0409	D124 0409	D127 0409
0485	4.85	#11	54	22	4.85	4.76 (3/16")	D121 0485	D124 0485	D127 0485
	Stub 118° Point (Discount Group A1002)						D123	D126	
0318	3.18	1/8	47	18	3.18	3.00	D123 0318		
0326	3.26	#30	49	24	3.26	3.18 (1/8")	D123 0326	D126 0326	
0409	4.09	#20	54	27	4.09	3.97 (5/32")	D123 0409	D126 0409	
0485	4.85	#11	57	30	4.85	4.76 (3/16")	D123 0485	D126 0485	

ISO	P													M			K						N										S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D121	●	●	○	○		●								○	○		○		○				●	●	○	○		○		○																		○	
D124	●	●	●	●		●	●			○				○	○		●		●																													○	
D127	●	●	●	●	○	●	●	○		○		○		●	○	○	●	○	●		○	○	○	○	○	○	○	○	○	○	○																	●	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

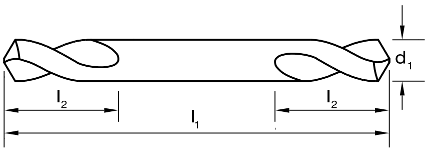
Drills Panel, Double Ended

- Double ended rigid design for through hole drilling
- Ideal for rivet holes in sheet metal fabrication
- Recommended for shallow holes no deeper than 1-1/4 x d1
- Tupoint drills require fully tightened chuck jaws

Forets courts double têtes à panneaux
- Forets double têtes rigide
- Pour avant trous de rivets
- Profondeur maxi 1,25x Dia

Punte Panello, Doppia Testa
- Design Rigido per fori passanti, a doppia testa
- Ideale per la foratura di lamiera di metallo
- Raccomandata per fori poco profondi al massimo 1-1/4 x d1
- Le punte elicoidali richiedono ganasce di serraggio completamente serrate

Broca Chapa, Dos Puna
- Diseño rígido de doble extremo para taladrado de agujeros pasantes.
- Ideal para agujeros de remaches en la fabricación de chapa.
- Recomendado para agujeros poco profundos no más de: 1-1 / 4 x d1
- Las brocas Tupoint requieren que las garras del husillo
estén totalmente apretadas.



Catalogue Code	D122	D125	D128	D130
Discount Group	A0802	A0802	A0806	A0802
Material	HSS	HSS	HSS	HSS Co
Surface Finish	Brt	Blu	TiN	Colour Temp
Sutton Designation	Non Ferrous	Ferrous	Tough Materials	Tough Steels
Geometry	-	-	-	-
Point Type	135° Standard	135° Standard	135° Standard	135° Standard
Packaging & Order Quantity	Bulk (10)	Bulk (10)	1	Bulk (10)

Size Ref.	d_1 (h8)		l_1	l_2	d_2	Rivet Size	Item #	Item #	Item #	Item #
0318	3.18	1/8	54	19	3.18	3.00	D122 0318	D125 0318	D128 0318	D130 0318
0326	3.26	#30	54	19	3.26	3.18 (1/8")	D122 0326	D125 0326	D128 0326	D130 0326
0409	4.09	#20	54	22	4.09	3.97 (5/32")	D122 0409	D125 0409	D128 0409	D130 0409
0485	4.85	#11	54	22	4.85	4.76 (3/16")	D122 0485	D125 0485	D128 0485	D130 0485

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D122	●	●	○	○		●								○	○		○		○			
D125	●	●	●	●		●	●			○				○	○		●		●			
D128	●	●	●	●	○	●	●	○		○		○		●	○	○	●	○	●		○	○
D130	●	●	●	●	○	●	●	○	○	●	○	○	○	○	○		○		○		○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D122	●	●	○	○		○		○																		○	
D125																										○	
D128	○	○	○	○	○	○	○	○	○																	●	
D130																										○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

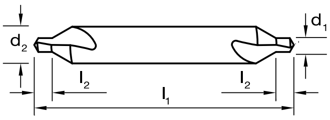
- For drilling 60° centre holes in the end of shafts
- Ensures accurate starting and centring for precision
- Refer to Carbide Drill section for VHM Centre Drills

Forets à centrer
- Foret à centre 60° pour chanfreins et centrage sur arbre
- Voir le chapitre forets carbure pour forets à centrer carbure

Punte Da Centro
- Usato per generare fori guida a 60° in testa ad alberi che verranno poi sottoposti a lavorazione sui centri
- Permette un accurato centraggio di precisione
- Fare riferimento alla sezione Trapani in metallo duro per trapani a centri VHM

Broca de Centrar
- Para puntear de centros entre ejes de 60 °
- Asegura un punteado de precisión.
- Consulte la sección Taladro de Metal duro, para las Brocas de centrar VHM.

DIN 333 | ANSI B94-11



	D135	D136
Catalogue Code	D135	D136
Discount Group	A0302	A0302
Material	HSS	HSS
Surface Finish	Brt	Brt
Sutton Designation	N	N
Geometry	A Type	Plain Type
Point Type	60°	60°
Standard	DIN 333	ANSI B94-11

Size Ref.	Type	d_1	l_1	l_2	d_2	Item #	Item #
	Type A						
0080	**0.80**	0.80	25.00	1.10	3.15	D135 0080	
0100	**1.00**	1.00	31.50	1.30	3.15	D135 0100	
0125	**1.25**	1.25	31.50	1.60	3.15	D135 0125	
0160	**1.60**	1.60	35.50	2.00	4.00	D135 0160	
0200	**2.00**	2.00	40.00	2.50	5.00	D135 0200	
0250	**2.50**	2.50	45.00	3.10	6.30	D135 0250	
0315	**3.15**	3.15	50.00	3.90	8.00	D135 0315	
0400	**4.00**	4.00	56.00	5.00	10.00	D135 0400	
0500	**5.00**	5.00	63.00	6.30	12.50	D135 0500	
0630	**6.30**	6.30	71.00	8.00	16.00	D135 0630	
0800	**8.00**	8.00	80.00	10.10	20.00	D135 0800	
1000	**10.00**	10.00	100.00	12.80	25.00	D135 1000	
	Plain Type						
0001	**# 1**	3/64	1-1/4	3/64	1/8		D136 0001
0002	**# 2**	5/64	1-7/8	5/64	3/16		D136 0002
0003	**# 3**	7/64	2	7/64	1/4		D136 0003
0004	**# 4**	1/8	2-1/8	1/8	5/16		D136 0004
0005	**# 5**	3/16	2-3/4	3/16	7/16		D136 0005
0006	**# 6**	7/32	3	7/32	1/2		D136 0006
0007	**# 7**	1/4	3-1/4	1/4	5/8		D136 0007
0008	**# 8**	5/16	3-1/2	5/16	3/4		D136 0008
	Set - 5 Pce						
SCD1	#1, #2, #3, #4 & #5						D136 SCD1

D136 SCD1

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D135	●	●	○	○		●								○	○		○		○			
D136	●	●	○	○		●								○	○		○		○			

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D135	○	○	○	○		○		○	○																		
D136	○	○	○	○		○		○	○																		

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

suttontools

Drills NC Spotting

- Precision drill for machine use
- Rigid design for "seat" position accuracy
- 90° offers hole chamfering & spotting with the one tool
- 120° for spotting, matching a typical drill point
- Only drill to the depth of the point
- Refer to Carbide Drill section for VHM Spotting Drills

Forets NC à pointer

- utilisation sur machine
- forets rigide
- 90° pour les chanfreins
- 120° pour chanfreins et avant trous de perçage pour les forets à 118°
- Voir le chapitre carbure pour les forets NC carbure

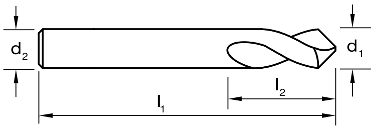
Punte Da Centro NC

- Centrino per CNC
- Progettata per accurati centraggi pre-foratura
- 90° offre possibilità di centraggio e smussatura in un unico utensile
- 120° per un centraggio accurato pre-foratura
- Utilizzare solo la profondità della punta
- Fare riferimento alle punte da centro nella sezione Punte Metallo duro

Broca de Puntear NC

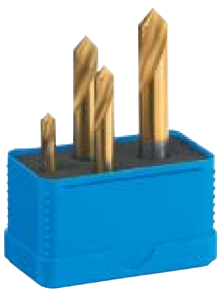
- Broca de precisión para uso en máquinas.
- Diseño rígido para una base de precisión.
- 90 ° permite puntear y avellanar con una única herramienta.
- 120 ° para base coincidiendo con la punta típica de las brocas.
- Solo taladre hasta la profundidad de la punta.
- Consulte la sección de Metal duro, para ver las brocas VHM.

DIN 1897



	D175	D176
Catalogue Code	D175	D176
Discount Group	A1124	A1124
Material	HSS Co	HSS Co
Surface Finish	TiN	TiN
Sutton Designation	NC	NC
Geometry	-	-
Point Type	90°	120°
Shank Tolerance	-	-

Size Ref.	d_1 (h8)	l_1	l_2	d_2	Pieces	Item #	Item #
0300	3.0	49	16	3.0		D175 0300	D176 0300
0400	4.0	55	22	4.0		D175 0400	D176 0400
0500	5.0	62	25	5.0		D175 0500	D176 0500
0600	6.0	66	25	6.0		D175 0600	D176 0600
0800	8.0	79	29	8.0		D175 0800	D176 0800
1000	10.0	89	32	10.0		D175 1000	D176 1000
1200	12.0	102	32	12.0		D175 1200	D176 1200
1600	16.0	115	35	16.0		D175 1600	D176 1600
2000	20.0	131	37	20.0		D175 2000	D176 2000
2500	25.0	151	37	25.0		D175 2500	D176 2500
	Sets						
0004	6.0, 8.0, 10.0 & 12.0				4	D175 0004	D176 0004
SDT5	6.0, 8.0, 10.0, 12.0 & 16.0				5	D175 SDT5	



D175 0004

D176 0004

D175 SDT5

ISO	P													M			K					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20
D175	●	●	●	●	○	●	●	○		○		○	○	●	●	○	●	○	●	○	○	○
D176	●	●	●	●	○	●	●	○		○		○	○	●	●	○	●	○	●	○	○	○

ISO	N										S											H					
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
D175	●	●	●	●	○	●	○	●	○		○	○	○	○			○	○		○		○				○	
D176	●	●	●	●	○	●	○	●	○		○	○	○	○			○	○		○		○				○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

NOTE: HB & HE shanks available, subject to lead time.

Back to index

Countersinks Three Flute, 90°, DIN 335

suttontools

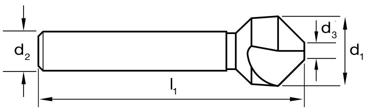
- De-burring
- Countersinking / Counterboring screw holes
- Chamfering of tapping holes
- For use in machine applications. Type N - For non-ferrous, Type UNI - For difficult to machine materials

Fraises à chanfreiner 3 dents 90°, DiN 335
- Ebavurage de trous
- Ebavurage et réalisation de fraisurage de tête de vis
- Chanfreins de trous taraudés
- Utilisations sur machines, Type N pour les matériaux non-ferrous, Type UNI pour les matériaux jusqu'à 850N/mm²

Svasatori Tre Taglienti, 90°, DIN 335
- Sbavatore
- Svasatore/ Svasatore per testa viti
- Smussatore per fori da filettare
- Per lavorazioni su macchina CN. Tipo N - Materiali non ferrosi, Tipo UNI - per materiali di difficile lavorabilità

Avellanadores de tres labios, 90°, DIN 335
- Desbarbado
- Avellanado y Biselado de agujeros
- Avellanado de agujeros para roscas.
- Para uso en aplicaciones de máquina. (Tipo N - no ferrosos), (Tipo UNI - Para materiales difíciles de mecanizar)

DIN 335



	C107	C108
Catalogue Code	C107	C108
Discount Group	A1106	A1108
Material	HSS Co	HSS Co
Surface Finish	*Brt*	*TiAlN*
Sutton Designation	N	UNI
Geometry	-	-
Point Type	90°	90°
Shank Tolerance	h9	h9

Size Ref.	d_1	Screw Head	l_1	d_2	d_3	Pieces	Item #	Item #
0430	4.3	M2	40	4	1.3		C107 0430	C108 0430
0530	5.3	M2.5	40	4	1.5		C107 0530	C108 0530
0630	6.3	M3	45	5	1.5		C107 0630	C108 0630
0730	7.3	M3.5	50	6	1.8		C107 0730	C108 0730
0800	8.0		50	6	2.0		C107 0800	C108 0800
0840	8.4	M4	50	6	2.0		C107 0840	C108 0840
0940	9.4	M5	50	6	2.2		C107 0940	C108 0940
1000	10.0		50	6	2.5		C107 1000	C108 1000
1040	10.4		50	6	2.5		C107 1040	C108 1040
1150	11.5	M6	56	8	2.8		C107 1150	C108 1150
1240	12.4		56	8	2.8		C107 1240	C108 1240
1340	13.4		56	8	2.9		C107 1340	C108 1340
1500	15.0		60	10	3.2		C107 1500	C108 1500
1650	16.5	M8	60	10	3.2		C107 1650	C108 1650
1900	19.0	M10	63	10	3.5		C107 1900	C108 1900
2050	20.5		63	10	3.5		C107 2050	C108 2050
2300	23.0		67	10	3.8		C107 2300	C108 2300
2500	25.0		67	10	3.8		C107 2500	C108 2500
3000	30.0		71	12	4.2		C107 3000	C108 3000
3100	31.0		71	12	4.2		C107 3100	C108 3100
	Set							
0004	6.3, 10.4, 16.5, 20.5					4	C107 0004	C108 0004

C107 0004

C108 0004

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
C107	●	●	●	●	○	●	●	○		○		○	
C108	●	●	●	●	●	●	●	●	○	●	○	●	●

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
C107	●	●	○	●	○	●	●	○	
C108	●	●	●	●	●	●	●	●	●

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
C107	●	●	●	●	○	●	○	○	○	
C108	○	○	●	●	●	●	●	●	○	

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
C107	○	○	○			○	○	○		○	
C108	○	○	○	○	○	○	○	○	○	○	○

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
C107					●	
C108					●	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

- **For Countersunk screws acc. to DIN 963, 964, 965, 966, 7513, 7516**
- **For Countersunk screws acc. to ISO 2009, 2010, 7046-1, 7046-2, 7047**

suttontools

Countersinks Counterbore

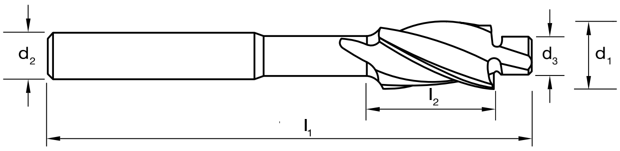
- Solid pilot style
- 3 flute design
- Right-hand cutting
- Nominal size to suit metric socket head cap screws
- Cobalt High Speed Steel enables counterboring in high alloy steels

Fraises à lamer
- Pilote intégré
- 3 dents
- Coupe à droite
- Suivant la norme des têtes de vis métriques
- Multi-matières

Svasatori Teste Brugola
- Diametro pilota
- 3 Taglienti
- Destro
- Allargatore per teste a Brugola di dimenioni metriche nominali
- HSS-Cobalto permette di lavorare acciai altamente legati

Avellanadores para tornillos allen.
- Piloto guia sólido.
- Diseño de 3 labios.
- Corte a la derecha.
- Tamaño nominal para adaptarse a tornillos métricos de cabeza allen.
- El acero rápido al cobalto permite el fresado en aceros de alta aleación.

DIN 373



Catalogue Code	C100
Discount Group	B0709
Material	HSS Co
Surface Finish	*Brt*
Sutton Designation	N
Geometry	-
Point Type	-
Shank Tolerance	h6

Size Ref.	Size	d_3	d_1	l_1	l_2	d_2	Item #
0300	**3.0**	3.2	6.0	71.0	14.0	5.0	C100 0300
0400	**4.0**	4.3	8.0	71.0	14.0	5.0	C100 0400
0500	**5.0**	5.3	10.0	80.0	18.0	8.0	C100 0500
0600	**6.0**	6.4	11.0	80.0	18.0	8.0	C100 0600
0800	**8.0**	8.4	15.0	100.0	22.0	12.5	C100 0800
1000	**10.0**	10.5	18.0	100.0	22.0	12.5	C100 1000
1200	**12.0**	13.0	20.0	100.0	22.0	12.5	C100 1200

ISO	P												
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13
C100	●	●	○	○	○	●	○	○	○	○	○	○	○

ISO	M			K					
VDI 3323	14.1	14.2	14.3	15	16	17	18	19	20
C100	○	○	○	●	○	○	○	○	○

ISO	N									
VDI 3323	21	22	23	24	25	26	27	28	29	30
C100	○	○	○	○		○		○		

ISO	S										
VDI 3323	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5
C100											

ISO	H					
VDI 3323	38.1	38.2	39.1	39.2	40	41
C100					○	

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective