

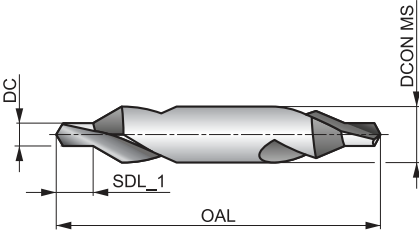


A225



HSS Centre Drill with 120° Point angle and 60° Countersink, Bright Finish

Recommended for starting a precise hole in the end of a shaft so it can be securely held prior to machining. British Standard 328. The two drilling ends give increased productivity per tool. Suitable for drilling many materials.



HSS	BS 328	1xD
60°	Bright	
R	120°	

Workpiece material group suitability, starting values for cutting speed (m/min) and feed Alpha Code. Tables with feed per revolution can be found starting from page 175.

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

Products from this series are also available in set. Please see A296.

Product	Nr.	DC	DC	SDL_1	OAL	DCONMS
		[inch]	[inch]	[inch]	[inch]	[inch]
A225BS1	BS1	3/64	0.0469	5/64 - 1/16	1.1/2	1/8
A225BS2	BS2	1/16	0.0625	3/32 - 5/64	1.3/4	3/16
A225BS3	BS3	3/32	0.0938	5/32 - 1/8	2"	1/4
A225BS4	BS4	1/8	0.1250	3/16 - 5/32	2.1/4	5/16
A225BS5	BS5	3/16	0.1875	9/32 - 1/4	2.1/2	7/16
A225BS5A	BS5A	7/32	0.2188	5/16 - 9/32	2.3/4	1/2
A225BS6	BS6	1/4	0.2500	3/8 - 5/16	3"	5/8
A225BS7	BS7	5/16	0.3125	15/32 - 13/32	3.1/2	3/4



A296



HSS Centre Drill Set

A set of five center drills which come in a handy plastic case to keep all your drills together. Recommended for starting a precise hole in the end of a shaft it can be securely held prior to machining. The two drilling ends gives increased productivity per tool.

A296200 - 118° point DIN333A, A296225 - 120° point BS328. A=Styles in Set, B=No. in Set, C=Diameters in Set.

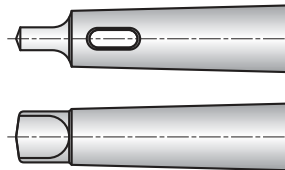
Product	Nr.	A	B	C
A296200	200	A200	5	1.00 mm, 2.00 mm, 2.50 mm, 3.15 mm, 4.00 mm
A296225	225	A225	5	BS1, BS2, BS3, BS4, BS5

M150



Morse Tapered Sleeve, Oil Toughened

Adaptor used to enable drills with smaller taper shanks to be held in machine spindles with larger morse tapers.



K= External Morse Cone; K1=Internal Morse Cone.

Product	Nr.	K = Nr.	K1 = Nr.
M1501-0	10	Nr. 1	Nr. 0
M1502-1	21	Nr. 2	Nr. 1
M1503-1	31	Nr. 3	Nr. 1
M1504-1	41	Nr. 4	Nr. 1
M1503-2	32	Nr. 3	Nr. 2
M1504-2	42	Nr. 4	Nr. 2
M1505-2	52	Nr. 5	Nr. 2
M1504-3	43	Nr. 4	Nr. 3
M1505-3	53	Nr. 5	Nr. 3
M1505-4	54	Nr. 5	Nr. 4
M1506-5	65	Nr. 6	Nr. 5