HIGH SPEED STEEL

PROPERTIES

HSS - Achieves the best performance in mild steel and nonferrous materials considerably less feed force required. Extremely quiet running, optimal and smooth surface, perfect chip removal.

HSSE (Cobalt) - Provides better wear resistance in hardness and toughness compared to HSS. Longer service life and faster deburring / countersinking.

TiN coating increases the tool life for intensive use.

TiAlN increases wear resistance and improves surface finish.


HSS


HSS with TiN coating


HSSE - Cobalt


HSSE with TiAlN coating

D	d1 - max	d2	L	ordering no. HSS	ordering no. HSSE-Cobalt	ordering no. HSS TiN Coated	ordering no. TiAlN Coated
5.3	1.5	4	40	CM1103	CM1204	CM1304	CM1404
6.3	1.5	5	45	CM1106	CM1209	CM1309	CM1409
6.35	1.5	6.35	45	-	CM1210	-	CM1411
7.93	2.0	6.35	45	-	CM1214	-	CM1414
8.3	2.0	6	50	CM1110	CM1216	CM1316	CM1416
9.52	2.5	6.35	50	-	CM1219	-	CM1419
10.4	2.5	6	50	CM1113	CM1221	CM1321	CM1421
12.4	2.8	8	56	CM1115	CM1225	CM1324	CM1424
12.7	2.9	6.35	50	-	CM1227	-	CM1425
15	3.2	10	60	CM1118	CM1230	CM1328	CM1428
15.87	3.2	9.52	60	-	CM1232	-	CM1430
16.5	3.2	10	60	CM1120	CM1233	CM1331	CM1431
19.05	3.5	9.52	60	-	CM1237	-	CM1434
20.5	3.5	10	63	CM1124	CM1238	CM1335	CM1435
25	3.8	10	67	CM1128	CM1241	CM1337	CM1437
25.4	3.8	9.52	70	-	CM1243	-	CM1438
31	4.2	12	71	CM1134	CM1249	CM1344	CM1442

Lubrication is recommended while working.
All measurements are in mm unless otherwise mentioned.

SOLID CARBIDE

PROPERTIES

NogaMT 3 Flute Carbide machining countersinks are made from Solid Crabide for extra strength, the AlTiN coating gives a high thermic stability and excellent protection against heat and wear. Ideal for dry machining - high speed cut - in treated steels and dies up to 67 Rc.


Solid Carbide


Solid Carbide with AlTiN coating

D	d1 - max	d2	L	ordering no. Solid Carbide	ordering no. AlTiN Coated
6.3	1.5	5	45	CM1504	CM1604
8.3	2.0	6	50	CM1506	CM1606
10.4	2.5	6	50	CM1508	CM1608
12.4	2.8	8	56	*CM1510	*CM1610
16.5	3.2	10	60	*CM1512	*CM1612
20.5	3.5	10	63	*CM1513	*CM1613
25	3.8	10	67	*CM1514	*CM1614

* 3 flatted shank
Lubrication is recommended while working.
All measurements are in mm unless otherwise mentioned.