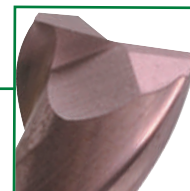


Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

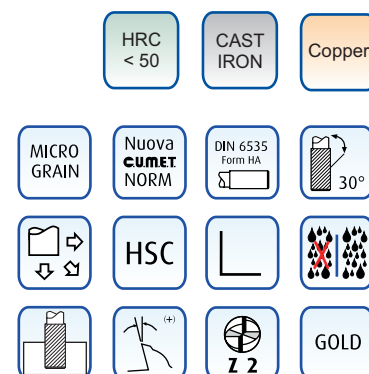
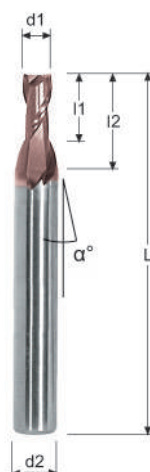
VHM - Schafffräser - Fraise carbure à bout plat

Фреза концевая твердосплавная с прямым зубом - Sk rohová fréza



CODE	d1h9 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
201.010.4	1	4	2	50	2	15°
201.010	1	6	2.5	50	2	15°
201.015.4	1.5	4	3	50	2	15°
201.015	1.5	6	4	50	2	15°
201.020.4	2	4	4	50	2	15°
201.020	2	6	6	50	2	15°
201.025	2.5	6	6	50	2	15°
201.030.4	3	4	6	50	2	15°
201.030	3	6	7	50	2	15°
201.035	3.5	6	7	50	2	15°
201.040	4	6	8	50	2	10°
201.045	4.5	6	9	50	2	10°
201.050	5	6	10	50	2	5°
201.055	5.5	6	10	50	2	5°
201.060	6	6	12	50	2	-

→ Help 198-202

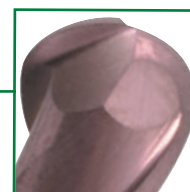


Fresa testa raggiata in metallo duro integrale

Solid carbide ball nose end mill

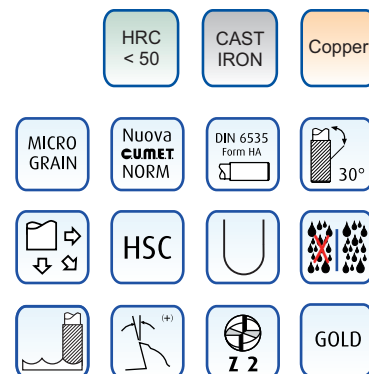
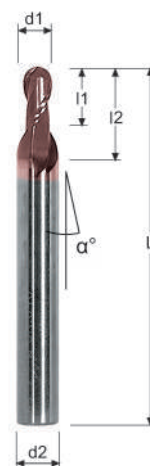
VHM - Radiusfräser - Fraise carbure à bout hémisphérique

Фреза концевая твердосплавная полусферическая - Sk kulová fréza



CODE	d1h9 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
201R.010.4	1	4	2	50	2	15°
201R.010	1	6	2.5	50	2	15°
201R.015.4	1.5	4	3	50	2	15°
201R.015	1.5	6	4	50	2	15°
201R.020.4	2	4	4	50	2	15°
201R.020	2	6	6	50	2	15°
201R.025	2.5	6	6	50	2	15°
201R.030.4	3	4	6	50	2	15°
201R.030	3	6	7	50	2	15°
201R.035	3.5	6	7	50	2	15°
201R.040	4	6	8	50	2	10°
201R.045	4.5	6	9	50	2	10°
201R.050	5	6	10	50	2	5°
201R.055	5.5	6	10	50	2	5°
201R.060	6	6	12	50	2	-

→ Help 200



Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

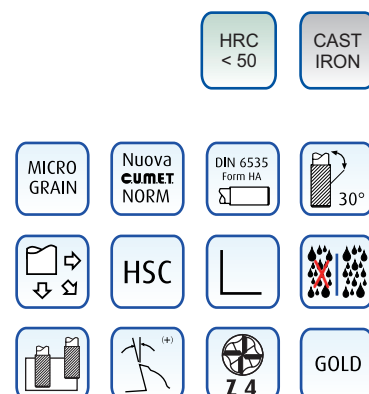
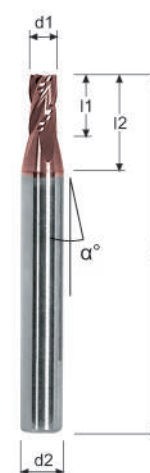
VHM - Schafffräser - Fraise carbure à bout plat

Фреза концевая твердосплавная с прямым зубом - Sk rohová fréza



CODE	d1h9 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
401.010.4	1	4	2	50	2	15°
401.010	1	6	2.5	50	4	15°
401.015.4	1.5	4	3	50	2	15°
401.015	1.5	6	4	50	4	15°
401.020.4	2	4	5	50	4	15°
401.020	2	6	6	50	4	15°
401.025	2.5	6	6	50	4	15°
401.030.4	3	4	7	50	2	15°
401.030	3	6	7	50	4	15°
401.035	3.5	6	7	50	4	15°
401.040	4	6	8	50	4	10°
401.045	4.5	6	9	50	4	10°
401.050	5	6	10	50	4	5°
401.055	5.5	6	10	50	4	5°
401.060	6	6	12	50	4	-

→ Help 200-202

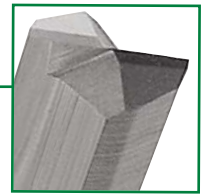


Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Schaftfräser - Fraise carbure à bout plat

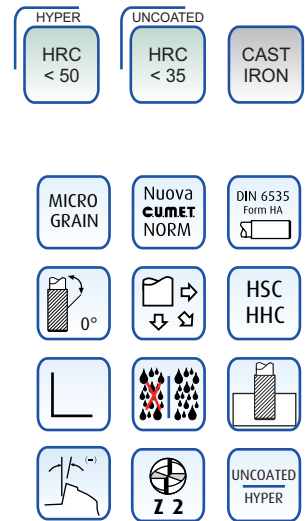
Фреза концевая твердосплавная с прямым зубом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
200D.010	200DT.010	1	3	2.5	40	2
200D.015	200DT.015	1.5	3	4	40	2
200D.020	200DT.020	2	3	6	40	2
200D.025	200DT.025	2.5	3	6	40	2
200D.030	200DT.030	3	3	8	40	2
200D.035	200DT.035	3.5	3.5	10	40	2
200D.040	200DT.040	4	4	10	50	2
200D.045	200DT.045	4.5	4.5	10	50	2
200D.050	200DT.050	5	5	12	50	2
200D.060	200DT.060	6	6	12	50	2
200D.070	200DT.070	7	7	16	60	2
200D.080	200DT.080	8	8	20	60	2
200D.090	200DT.090	9	9	20	70	2
200D.100	200DT.100	10	10	22	70	2
200D.120	200DT.120	12	12	25	75	2
200D.140	200DT.140	14	14	30	85	2
200D.160	200DT.160	16	16	30	85	2
200D.200	200DT.200	20	20	40	100	2

→ Help 198

*d1 ≤ ø 6 h9
d1 ≤ ø20 f7

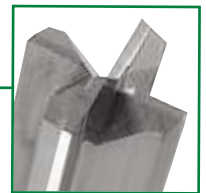


Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Schaftfräser - Fraise carbure à bout plat

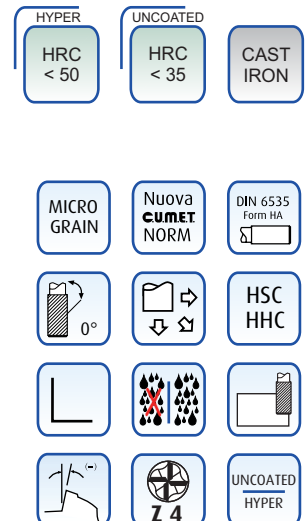
Фреза концевая твердосплавная с прямым зубом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
400D.020	400DT.020	2	3	5	40	4
400D.030	400DT.030	3	3	12	40	4
400D.040	400DT.040	4	4	16	50	4
400D.060	400DT.060	6	6	20	50	4
400D.080	400DT.080	8	8	22	60	4
400D.100	400DT.100	10	10	25	70	4
400D.120	400DT.120	12	12	27	75	4
400D.160	400DT.160	16	16	30	85	4
400D.200	400DT.200	20	20	40	100	4

→ Help 198

*d1 ≤ ø 6 h9
d1 ≤ ø20 f7



Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Gesenkräuser im Formenbau - Fraises a matrice en carbure à bout plat

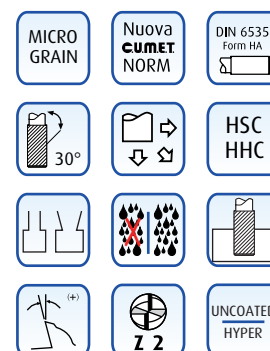
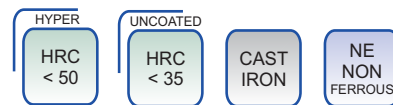
Фреза концевая твердосплавная с плоским торцом удлиненная - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	Z no.	α°
200S01075	200ST01075	1	6	1.5	15	75	2	11°
200S01575	200ST01575	1.5	6	2	15	75	2	11'
200S02075	200ST02075	2	6	3	15	75	2	9°30'
200S03075	200ST03075	3	6	6	15	75	2	9°
200S03075.1	200ST03075.1	3	6	10	20	75	2	8°30'
200S03575	200ST03575	3.5	6	10	20	75	2	6°30'
200S04075	200ST04075	4	6	10	20	75	2	6°30'
200S04075.1	200ST04075.1	4	6	15	25	75	2	6°
200S04575	200ST04575	4.5	6	10	25	75	2	2°51'
200S05075	200ST05075	5	6	12	25	75	2	2°10'
200S05075.1	200ST05075.1	5	6	18	25	75	2	4°
200S06100	200ST06100	6	6	15	-	100	2	-
200S06100.1	200ST06100.1	6	6	25	-	100	2	-
200S06150	200ST06150	6	6	20	-	150	2	-
200S06200.1	200ST06200.1	6	6	20	-	200	2	-
200S06200	200ST06200	6	8	20	80	200	2	50'
200S08100	200ST08100	8	8	20	-	100	2	-
200S08150	200ST08150	8	8	20	-	150	2	-
200S08200	200ST08200	8	8	20	-	200	2	-
200S08200.1	200ST08200.1	8	8	25	-	200	2	-
200S10100	200ST10100	10	10	25	-	100	2	-
200S10150	200ST10150	10	10	25	-	150	2	-
200S10200	200ST10200	10	10	25	-	200	2	-
200S12100	200ST12100	12	12	25	-	100	2	-
200S12150	200ST12150	12	12	25	-	150	2	-
200S12200	200ST12200	12	12	25	-	200	2	-
200S14100	200ST14100	14	14	30	-	100	2	-
200S14150	200ST14150	14	14	30	-	150	2	-
200S14200	200ST14200	14	14	30	-	200	2	-
200S16100	200ST16100	16	16	30	-	100	2	-
200S16150	200ST16150	16	16	30	-	150	2	-
200S16200	200ST16200	16	16	30	-	200	2	-
200S18200	200ST18200	18	18	30	-	200	2	-
200S20100	200ST20100	20	20	30	-	100	2	-
200S20150	200ST20150	20	20	30	-	150	2	-
200S20200	200ST20200	20	20	30	-	200	2	-

→ Help 198

*d1 ≤ ø 6 h9
d1 ≤ ø20 f7



Tutte le nostre frese standard vengono costruite con lo stesso procedimento delle frese ad alto rendimento: tolleranza del diametro di taglio h8, ottime finiture dei taglienti, controllo costante delle geometrie con sistemi ottici automatici.

All of our standard end mills are manufactured with the same process of our high performance cutters: cutting diameter tolerance h8, high flutes finishing, constant control of geometries with automatic optical systems.

Häckselgutdurchmesser h8, sehr gute Qualität von scharfen, ständige Kontrolle der Geometrie mit automatisierten optischen Systemen: Alle unsere Standard-Bohrer werden mit dem gleichen System Hochleistungsfräsen gebaut

Tous nos outils standards sont fabriqués avec le même système de coupe de nos fraises a haute performance : coupe diamètre tolérance h8, excellent finition de coupe, un suivi constant de géométries avec des systèmes optiques automatiques.

Наш стандартный инструмент производится с использованием системы высокопроизводительной резки: точность по диаметру h8, высокая точность зубьев, постоянный контроль геометрии с использованием автоматических оптических систем.

Všetchny naše standardní frézy jsou vyrobeny stejným systémem našich vysoce výkonných fréz: řezný průměr v toleranci h8, vysoká kvalita úpravy zubů, stálou kontrolu nad geometrií s automatickým optickým kontrolním systémem.

Fresa testa torica in metallo duro integrale

Solid carbide corner radius end mill

VHM - Torusfräser - Fraise carbure avec rayon d'angle

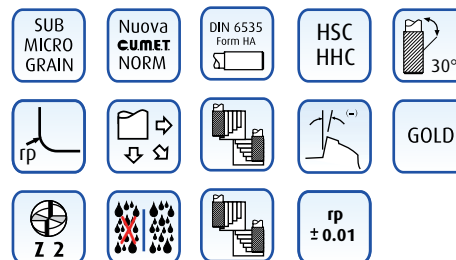
Фреза концевая твердосплавная с угловым радиусом - Sk fréza s rohovým rádiusem



CODE	*d1 mm	d2 mm	rp mm	l1 mm	L mm	Z no.
200T03100R03	3	3	0.3	10	100	2
200T04100R05	4	4	0.5	12	100	2
200T05100R05	5	5	0.5	15	100	2
200T06100R05	6	6	0.5	20	100	2
200T06100R1	6	6	1	20	100	2
200T06150R05	6	6	0.5	30	150	2
200T06150R1	6	6	1	30	150	2
200T08100R05	8	8	0.5	40	100	2
200T08100R1	8	8	1	40	100	2
200T08150R05	8	8	0.5	50	150	2
200T08150R1	8	8	1	50	150	2
200T10100R05	10	10	0.5	45	100	2
200T10100R1	10	10	1	45	100	2
200T10150R05	10	10	0.5	60	150	2
200T10150R1	10	10	1	60	150	2
200T12100R05	12	12	0.5	45	100	2
200T12100R1	12	12	1	45	100	2
200T12150R05	12	12	0.5	65	150	2
200T12150R1	12	12	1	65	150	2



HRC < 55
CAST IRON



*d1 < ø 6 h9
d1 ≤ ø12 = f7

→ 198

Fresa testa sferica in metallo duro integrale

Solid carbide ball nose end mill

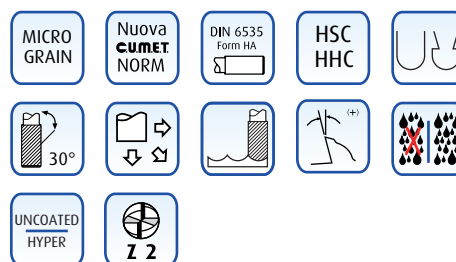
VHM - Radiusfräser im Formenbau - Fraises a matrice en carbure à bout hémisphérique

Фреза концевая твердосплавная полусферическая длинная для штампов - Sk kulová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	Z no.	α°
200SR01075	200SRT01075	1	6	1.5	15	75	2	11°
200SR01575	200SRT01575	1.5	6	2	15	75	2	11
200SR02075	200SRT02075	2	6	3	15	75	2	9°30'
200SR03075	200SRT03075	3	6	6	15	75	2	9°
200SR03075.1	200SRT03075.1	3	6	10	20	75	2	8°30'
200SR04075	200SRT04075	4	6	10	20	75	2	6°30'
200SR04075.1	200SRT04075.1	4	6	15	25	75	2	6°
200SR04575	200SRT04575	4.5	6	10	25	75	2	2°51'
200SR05075	200SRT05075	5	6	12	25	75	2	2°10'
200SR05075.1	200SRT05075.1	5	6	18	25	75	2	4°
200SR06100	200SRT06100	6	6	15	-	100	2	-
200SR06100.1	200SRT06100.1	6	6	25	-	100	2	-
200SR06150	200SRT06150	6	6	20	-	150	2	-
200SR06200.1	200SRT06200.1	6	6	20	-	200	2	-
200SR06200	200SRT06200	6	8	20	80	200	2	50'
200SR08100	200SRT08100	8	8	20	-	100	2	-
200SR08150	200SRT08150	8	8	20	-	150	2	-
200SR08200	200SRT08200	8	8	20	-	200	2	-
200SR08200.1	200SRT08200.1	8	10	20	80	200	2	43'
200SR10100	200SRT10100	10	10	25	-	100	2	-
200SR10150	200SRT10150	10	10	25	-	150	2	-
200SR10200	200SRT10200	10	10	25	-	200	2	-
200SR12100	200SRT12100	12	12	25	-	100	2	-
200SR12150	200SRT12150	12	12	25	-	150	2	-
200SR12200	200SRT12200	12	12	25	-	200	2	-
200SR14100	200SRT14100	14	14	30	-	100	2	-
200SR14150	200SRT14150	14	14	30	-	150	2	-
200SR14200	200SRT14200	14	14	30	-	200	2	-
200SR14200.1	200SRT14200.1	14	16	30	80	200	2	43'
200SR16100	200SRT16100	16	16	30	-	100	2	-
200SR16150	200SRT16150	16	16	30	-	150	2	-
200SR16200	200SRT16200	16	16	30	-	200	2	-
200SR20100	200SRT20100	20	20	30	-	100	2	-
200SR20150	200SRT20150	20	20	30	-	150	2	-
200SR20200	200SRT20200	20	20	30	-	200	2	-

HYPER
HRC < 50
UNCOATED
HRC < 35
CAST IRON
NON FERROUS



*d1 ≤ ø 6 h9
d1 ≤ ø20 f7

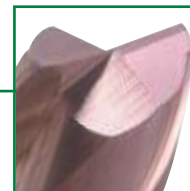
→ Help 161

Fresa testa piana in metallo duro integrale

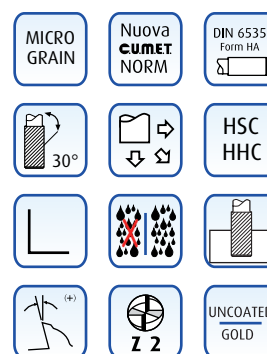
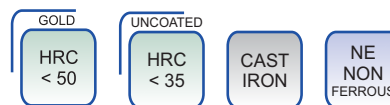
Solid carbide flat nose end mill

VHM - Schafffräser - Fraise carbure à bout plat

Фреза концевая твердосплавная с плоским торцом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
200.010G1	200T.010G1	1	1	5	40	2
200.010	200T.010	1	3	2.5	40	2
200.015G15	200T.015G15	1.5	1.5	5	40	2
200.015	200T.015	1.5	3	4	40	2
200.020G2	200T.020G2	2	2	8	40	2
200.020	200T.020	2	3	6	40	2
200.025G25	200T.025G25	2.5	2.5	8	40	2
200.025	200T.025	2.5	3	6	40	2
200.030	200T.030	3	3	8	40	2
20003060	200T03060	3	3	30	60	2
20003075	200T03075	3	3	30	75	2
200.035	200T.035	3.5	3.5	10	40	2
200.040	200T.040	4	4	10	50	2
20004060	200T04060	4	4	30	60	2
20004075	200T04075	4	4	30	75	2
200.045	200T.045	4.5	4.5	10	50	2
200.050	200T.050	5	5	12	50	2
20005070	200T05070	5	5	35	70	2
20005100	200T05100	5	5	40	100	2
200.055	200T.055	5.5	5.5	12	50	2
200.060	200T.060	6	6	12	50	2
20006100	200T06100	6	6	40	100	2
20006150	200T06150	6	6	50	150	2
200.070	200T.070	7	7	16	60	2
200.080	200T.080	8	8	20	60	2
20008100	200T08100	8	8	40	100	2
20008150	200T08150	8	8	50	150	2
200.090	200T.090	9	9	20	70	2
200.100	200T.100	10	10	22	70	2
20010100	200T10100	10	10	45	100	2
20010150	200T10150	10	10	60	150	2
200.110	200T.110	11	11	22	75	2
200.120	200T.120	12	12	25	75	2
20012100	200T12100	12	12	45	100	2
20012150	200T12150	12	12	75	150	2
200.130	200T.130	13	13	25	75	2
200.140	200T.140	14	14	30	85	2
20014100	200T14100	14	14	45	100	2
20014150	200T14150	14	14	65	150	2
20014150.1	200T14150.1	14	14	75	150	2
200.150	200T.150	15	15	30	85	2
20015100	200T15100	15	15	45	100	2
200.160	200T.160	16	16	30	85	2
20016100	200T16100	16	16	45	100	2
20016150	200T16150	16	16	65	150	2
20016150.1	200T16150.1	16	16	75	150	2
200.180	200T.180	18	18	38	100	2
20018150	200T18150	18	18	50	150	2
20018150.1	200T18150.1	18	18	65	150	2
20018150.2	200T18150.2	18	18	75	150	2
200.200	200T.200	20	20	40	100	2
20020150	200T20150	20	20	55	150	2
20020150.1	200T20150.1	20	20	65	150	2
20020150.2	200T20150.2	20	20	75	150	2
200.250	200T.250	25	25	40	100	2
20025150	200T25150	25	25	65	150	2
20025150.1	200T25150.1	25	25	75	150	2



*d1 ≤ ø 6 h9
d1 ≤ ø25 f7

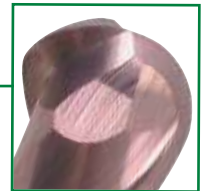
→ Help 198

Fresa testa sferica in metallo duro integrale

Solid carbide ball nose end mill

VHM - Radiusfräser - Fraise carbure à bout hémisphérique

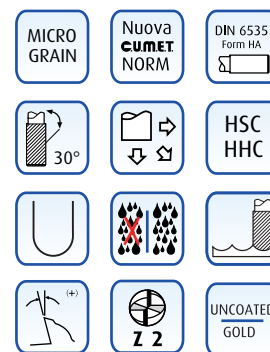
Фреза концевая твердосплавная полусферическая - Sk kulová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
200R.010G1	200RT.010G1	1	1	5	38	2
200R.010	200RT.010	1	3	2.5	40	2
200R.015G15	200RT.015G15	1.5	1.5	5	38	2
200R.015	200RT.015	1.5	3	4	40	2
200R.020G2	200RT.020G2	2	2	8	38	2
200R.020	200RT.020	2	3	6	40	2
200R.025G25	200RT.025G25	2.5	2.5	8	38	2
200R.025	200RT.025	2.5	3	6	40	2
200R.030	200RT.030	3	3	8	40	2
200RL.030	200RLT.030	3	3	30	60	2
200RL.030.1	200RLT.030.1	3	3	30	75	2
200R.035	200RT.035	3.5	3.5	10	40	2
200R.040	200RT.040	4	4	10	50	2
200RL.040	200RLT.040	4	4	30	60	2
200RL.040.1	200RLT.040.1	4	4	30	75	2
200R.045	200RT.045	4.5	4.5	10	50	2
200R.050	200RT.050	5	5	12	50	2
200RL.050	200RLT.050	5	5	35	70	2
200RL.050.1	200RLT.050.1	5	5	40	100	2
200R.055	200RT.055	5.5	5.5	12	50	2
200R.060	200RT.060	6	6	12	50	2
200RL.060	200RLT.060	6	6	40	100	2
200RL.060.1	200RLT.060.1	6	6	50	150	2
200R.070	200RT.070	7	7	16	60	2
200R.080	200RT.080	8	8	20	60	2
200RL.080	200RLT.080	8	8	40	100	2
200RL.080.1	200RLT.080.1	8	8	50	150	2
200R.090	200RT.090	9	9	20	70	2
200R.100	200RT.100	10	10	22	70	2
200RL.100	200RLT.100	10	10	45	100	2
200RL.100.1	200RLT.100.1	10	10	60	150	2
200R.110	200RT.110	11	11	22	75	2
200R.120	200RT.120	12	12	25	75	2
200RL.120	200RLT.120	12	12	45	100	2
200RL.120.1	200RLT.120.1	12	12	75	150	2
200R.130	200RT.130	13	13	25	75	2
200R.140	200RT.140	14	14	30	85	2
200RL.140	200RLT.140	14	14	45	100	2
200RL.140.1	200RLT.140.1	14	14	65	150	2
200RL.140.2	200RLT.140.2	14	14	75	150	2
200R.150	200RT.150	15	15	30	85	2
200RL.150	200RLT.150	15	15	45	100	2
200R.160	200RT.160	16	16	30	85	2
200RL.160	200RLT.160	16	16	45	100	2
200RL.160.1	200RLT.160.1	16	16	65	150	2
200RL.160.2	200RLT.160.2	16	16	75	150	2
200R.180	200RT.180	18	18	38	100	2
200RL.180	200RLT.180	18	18	50	150	2
200RL.180.1	200RLT.180.1	18	18	65	150	2
200RL.180.2	200RLT.180.2	18	18	75	150	2
200R.200	200RT.200	20	20	40	100	2
200RL.200	200RLT.200	20	20	55	150	2
200RL.200.1	200RLT.200.1	20	20	65	150	2
200RL.200.2	200RLT.200.2	20	20	75	150	2
200R.250	200RT.250	25	25	40	100	2
200RL.250	200RLT.250	25	25	65	150	2
200RL.250.1	200RLT.250.1	25	25	75	150	2

→ Help 161-200

*d1 ≤ ø 6 h9
d1 ≤ ø25 f7



Fresa testa piana in metallo duro integrale

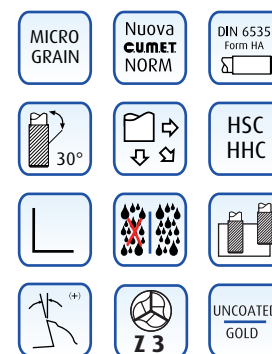
Solid carbide flat nose end mill

VHM - Schafffräser - Fraise carbure à bout plat

Фреза концевая твердосплавная с плоским торцом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
300.010	300T.010	1	3	2.5	40	3
300.015	300T.015	1.5	3	4	40	3
300.020	300T.020	2	3	5	40	3
300.025	300T.025	2.5	3	7	40	3
300.030	300T.030	3	3	12	40	3
30003060	300T03060	3	3	30	60	3
30003075	300T03075	3	3	30	75	3
300.035	300T.035	3.5	3.5	12	40	3
300.040	300T.040	4	4	16	50	3
30004060	300T04060	4	4	30	60	3
30004075	300T04075	4	4	30	75	3
300.045	300T.045	4.5	4.5	16	50	3
300.050	300T.050	5	5	20	50	3
30005070	300T05070	5	5	35	70	3
30005100	300T05100	5	5	40	100	3
300.055	300T.055	5.5	5.5	20	50	3
300.060	300T.060	6	6	20	50	3
30006100	300T06100	6	6	40	100	3
30006150	300T06150	6	6	50	150	3
300.070	300T.070	7	7	22	60	3
300.080	300T.080	8	8	22	60	3
30008100	300T08100	8	8	40	100	3
30008150	300T08150	8	8	50	150	3
300.090	300T.090	9	9	22	70	3
300.100	300T.100	10	10	25	70	3
30010100	300T10100	10	10	45	100	3
30010150	300T10150	10	10	60	150	3
300.110	300T.110	11	11	27	75	3
300.120	300T.120	12	12	27	75	3
30012100	300T12100	12	12	45	100	3
30012150	300T12150	12	12	75	150	3
300.130	300T.130	13	13	27	75	3
300.140	300T.140	14	14	30	85	3
30014100	300T14100	14	14	45	100	3
30014150	300T14150	14	14	65	150	3
30014150.1	300T14150.1	14	14	75	150	3
300.150	300T.150	15	15	30	85	3
30015100	300T15100	15	15	45	100	3
300.160	300T.160	16	16	30	85	3
30016100	300T16100	16	16	45	100	3
30016150	300T16150	16	16	65	150	3
30016150.1	300T16150.1	16	16	75	150	3
300.180	300T.180	18	18	40	100	3
30018150	300T18150	18	18	50	150	3
30018150.1	300T18150.1	18	18	65	150	3
30018150.2	300T18150.2	18	18	75	150	3
300.200	300T.200	20	20	40	100	3
30020150	300T20150	20	20	55	150	3
30020150.1	300T20150.1	20	20	65	150	3
30020150.2	300T20150.2	20	20	75	150	3
300.220	300T.220	22	22	40	100	3
300.250	300T.250	25	25	40	100	3
30025150	300T25150	25	25	65	150	3
30025150.1	300T25150.1	25	25	75	150	3



→ Help 195-196-198

*d1 ≤ ø 6 h9
d1 ≤ ø 25 f7

Fresa testa sferica in metallo duro integrale

Solid carbide ball nose end mill

VHM - Radiusfräser - Fraise carbure à bout hémisphérique

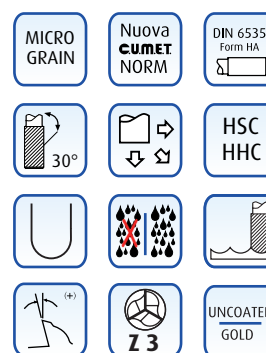
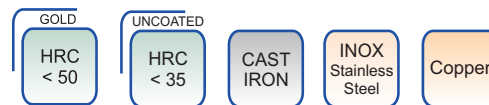
Фреза концевая твердосплавная полусферическая - Sk kulová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
300R.010	300RT.010	1	3	2.5	40	3
300R.015	300RT.015	1.5	3	4	40	3
300R.020	300RT.020	2	3	5	40	3
300R.025	300RT.025	2.5	3	7	40	3
300R.030	300RT.030	3	3	12	40	3
300RL.030	300RLT.030	3	3	30	60	3
300RL.030.1	300RLT.030.1	3	3	30	75	3
300R.035	300RT.035	3.5	3.5	12	40	3
300R.040	300RT.040	4	4	16	50	3
300RL.040	300RLT.040	4	4	30	60	3
300RL.040.1	300RLT.040.1	4	4	30	75	3
300R.045	300RT.045	4.5	4.5	16	50	3
300R.050	300RT.050	5	5	20	50	3
300RL.050	300RLT.050	5	5	35	70	3
300RL.050.1	300RLT.050.1	5	5	40	100	3
300R.055	300RT.055	5.5	5.5	20	50	3
300R.060	300RT.060	6	6	20	50	3
300RL.060	300RLT.060	6	6	40	100	3
300RL.060.1	300RLT.060.1	6	6	50	150	3
300R.070	300RT.070	7	7	22	60	3
300R.080	300RT.080	8	8	22	60	3
300RL.080	300RLT.080	8	8	40	100	3
300RL.080.1	300RLT.080.1	8	8	50	150	3
300R.090	300RT.090	9	9	22	70	3
300R.100	300RT.100	10	10	25	70	3
300RL.100	300RLT.100	10	10	45	100	3
300RL.100.1	300RLT.100.1	10	10	60	150	3
300R.110	300RT.110	11	11	27	75	3
300R.120	300RT.120	12	12	27	75	3
300RL.120	300RLT.120	12	12	45	100	3
300RL.120.1	300RLT.120.1	12	12	75	150	3
300R.130	300RT.130	13	13	27	75	3
300R.140	300RT.140	14	14	30	85	3
300RL.140	300RLT.140	14	14	45	100	3
300RL.140.1	300RLT.140.1	14	14	65	150	3
300RL.140.2	300RLT.140.2	14	14	75	150	3
300R.150	300RT.150	15	15	30	85	3
300RL.150	300RLT.150	15	15	45	100	3
300R.160	300RT.160	16	16	30	85	3
300RL.160	300RLT.160	16	16	45	100	3
300RL.160.1	300RLT.160.1	16	16	65	150	3
300RL.160.2	300RLT.160.2	16	16	75	150	3
300R.180	300RT.180	18	18	40	100	3
300RL.180	300RLT.180	18	18	50	150	3
300RL.180.1	300RLT.180.1	18	18	65	150	3
300RL.180.2	300RLT.180.2	18	18	75	150	3
300R.200	300RT.200	20	20	40	100	3
300RL.200	300RLT.200	20	20	55	150	3
300RL.200.1	300RLT.200.1	20	20	65	150	3
300RL.200.2	300RLT.200.2	20	20	75	150	3
300R.250	300RT.250	25	25	40	100	3
300RL.250	300RLT.250	25	25	55	150	3
300RL.250.1	300RLT.250.1	25	25	75	150	3

→ Help 161-200

*d1 ≤ ø 6 h9
d1 ≤ ø25 f7

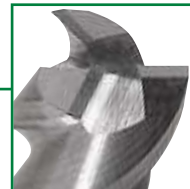


Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Schafffräser - Fraise carbure à bout plat

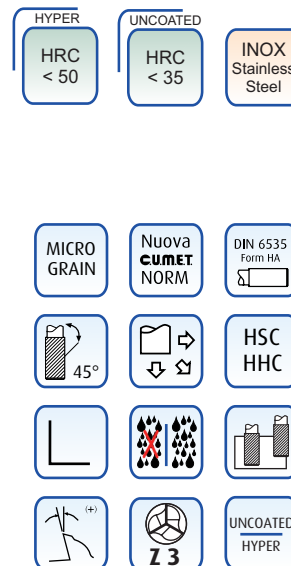
Фреза концевая твердосплавная с плоским торцом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
450.030	450T.030	3	3	10	40	3
45003060	450T03060	3	3	30	60	3
450.035	450T.035	3.5	3.5	10	40	3
450.040	450T.040	4	4	12	50	3
45004060	450T04060	4	4	30	60	3
450.045	450T.045	4.5	4.5	12	50	3
450.050	450T.050	5	5	12	50	3
45005070	450T05070	5	5	35	70	3
450.060	450T.060	6	6	16	50	3
45006100	450T06100	6	6	40	100	3
450.070	450T.070	7	7	16	60	3
450.080	450T.080	8	8	20	60	3
45008100	450T08100	8	8	40	100	3
450.090	450T.090	9	9	20	70	3
450.100	450T.100	10	10	22	70	3
45010100	450T10100	10	10	45	100	3
450.110	450T.110	11	11	22	70	3
45011100	450T11100	11	11	45	100	3
450.120	450T.120	12	12	27	75	3
45012100	450T12100	12	12	45	100	3
450.140	450T.140	14	14	27	85	3
45014100	450T14100	14	14	45	100	3
450.150	450T.150	15	15	30	85	3
450.160	450T.160	16	16	32	85	3
45016100	450T16100	16	16	45	100	3
45016150	450T16150	16	16	65	150	3
450.180	450T.180	18	18	38	100	3
450.200	450T.200	20	20	38	100	3
45020150	450T20150	20	20	65	150	3
45020150.1	450T20150.1	20	20	75	150	3

→ Help 195-196

*d1 ≤ ø 6 h9
d1 ≤ ø20 f7

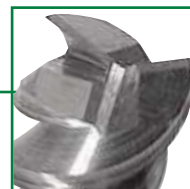


Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Schafffräser - Fraise carbure à bout plat

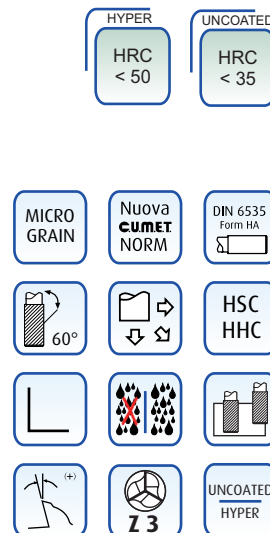
Фреза концевая твердосплавная с плоским торцом - Sk rohová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
500.030	500T.030	3	3	10	40	3
500.040	500T.040	4	4	12	50	3
50004060	500T04060	4	4	30	60	3
500.050	500T.050	5	5	12	50	3
500.060	500T.060	6	6	16	50	3
50006100	500T06100	6	6	40	100	3
500.080	500T.080	8	8	20	60	3
50008100	500T08100	8	8	40	100	3
500.100	500T.100	10	10	22	70	3
50010100	500T10100	10	10	45	100	3
500.120	500T.120	12	12	27	75	3
50012100	500T12100	12	12	45	100	3
500.150	500T.150	15	15	30	85	3
500.160	500T.160	16	16	30	85	3
50016100	500T16100	16	16	45	100	3
50016150	500T16150	16	16	65	150	3
500.180	500T.180	18	18	38	100	3
500.200	500T.200	20	20	38	100	3

→ Help 195-196

*d1 ≤ ø 6 h9
d1 ≤ ø20 f7



Fresa testa piana in metallo duro integrale

Solid carbide flat nose end mill

VHM - Schafffräser - Fraise carbure à bout plat

Фреза концевая твердосплавная с плоским торцом - Sk rohová fréza

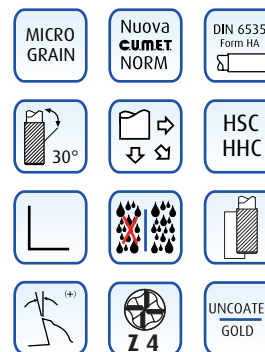


CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
400.010G1	400T.010G1	1	1	5	38	4
400.010	400T.010	1	3	2.5	40	4
400.015G15	400T.015G15	1.5	1.5	5	38	4
400.015	400T.015	1.5	3	4	40	4
400.020G2	400T.020G2	2	2	8	38	4
400.020	400T.020	2	3	5	40	4
400.025G25	400T.025G25	2.5	2.5	8	38	4
400.025	400T.025	2.5	3	7	40	4
400.030	400T.030	3	3	12	40	4
40003060	400T03060	3	3	30	60	4
40003075	400T03075	3	3	30	75	4
400.035	400T.035	3.5	3.5	12	40	4
400.040	400T.040	4	4	16	50	4
40004060	400T04060	4	4	30	60	4
40004075	400T04075	4	4	30	75	4
400.045	400T.045	4.5	4.5	16	50	4
400.050	400T.050	5	5	20	50	4
40005070	400T05070	5	5	35	70	4
40005100	400T05100	5	5	40	100	4
400.055	400T.055	5.5	5.5	20	50	4
400.060	400T.060	6	6	20	50	4
40006100	400T06100	6	6	40	100	4
40006150	400T06150	6	6	50	150	4
400.070	400T.070	7	7	22	60	4
400.080	400T.080	8	8	22	60	4
40008100	400T08100	8	8	40	100	4
40008150	400T08150	8	8	50	150	4
400.090	400T.090	9	9	22	70	4
400.100	400T.100	10	10	25	70	4
40010100	400T10100	10	10	45	100	4
40010150	400T10150	10	10	60	150	4
400.110	400T.110	11	11	27	75	4
400.120	400T.120	12	12	27	75	4
40012100	400T12100	12	12	45	100	4
40012150	400T12150	12	12	75	150	4
400.130	400T.130	13	13	27	75	4
400.140	400T.140	14	14	30	85	4
40014100	400T14100	14	14	45	100	4
40014150	400T14150	14	14	65	150	4
40014150.1	400T14150.1	14	14	75	150	4
400.150	400T.150	15	15	30	85	4
40015100	400T15100	15	15	45	100	4
400.160	400T.160	16	16	30	85	4
40016100	400T16100	16	16	45	100	4
40016150	400T16150	16	16	65	150	4
40016150.1	400T16150.1	16	16	75	150	4
400.180	400T.180	18	18	40	100	4
40018150	400T18150	18	18	50	150	4
40018150.1	400T18150.1	18	18	65	150	4
40018150.2	400T18150.2	18	18	75	150	4
400.200	400T.200	20	20	40	100	4
40020150	400T20150	20	20	55	150	4
40020150.1	400T20150.1	20	20	65	150	4
40020150.2	400T20150.2	20	20	75	150	4
400.220	400T.220	22	22	40	100	4
400.250	400T.250	25	25	40	100	4
40025150	400T25150	25	25	55	150	4
40025150.1	400T25150.1	25	25	75	150	4

GOLD
HRC < 50

UNCOATED
HRC < 35

CAST IRON



→ Help 197-198

*d1 ≤ ø 6 h9
d1 ≤ ø32 f7

Fresa testa torica in metallo duro integrale

Solid carbide corner radius end mill

VHM - Schaftfräser - Fraise carbure avec rayond'angle

Фреза концевая твердосплавная с угловым радиусом для тяжелого фрезерования

Sk fréza s rohovým rádiusem pro těžký řez

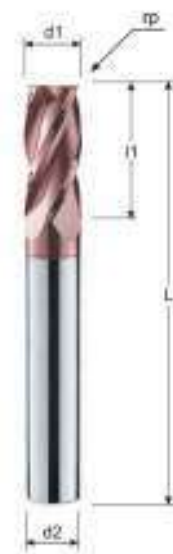


CODE	d1 mm	d2 mm	rp mm	l1 mm	L mm
400T03100R03	3	3	0.3	12	100
400T04100R05	4	4	0.5	16	100
400T05100R05	5	5	0.5	20	100
400T06100R05	6	6	0.5	20	100
400T06100R1	6	6	1	20	100
400T06150R05	6	6	0.5	30	150
400T06150R1	6	6	1	30	150
400T08100R05	8	8	0.5	40	100
400T08100R1	8	8	1	40	100
400T08150R05	8	8	0.5	50	150
400T08150R1	8	8	1	50	150
400T10100R05	10	10	0.5	45	100
400T10100R1	10	10	1	45	100
400T10150R05	10	10	0.5	60	150
400T10150R1	10	10	1	60	150
400T12100R05	12	12	0.5	45	100
400T12100R1	12	12	1	45	100
400T15150R05	12	12	0.5	65	150
400T15150R1	12	12	1	65	150

→ 197

*d1 ≤ ø 6 h9

d1 ≤ ø20 f7



Fresa testa sferica in metallo duro integrale

Solid carbide ball nose end mill

VHM - Radiusfräser - Fraise carbure à bout hémisphérique

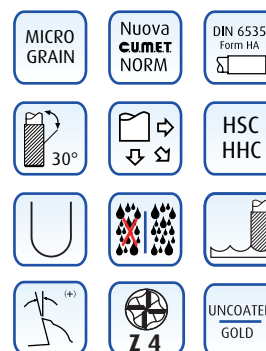
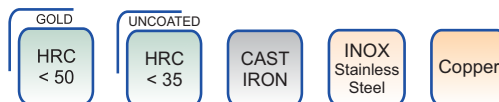
Фреза концевая твердосплавная полусферическая - Sk kulová fréza



CODE UNCOATED	CODE HYPER	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
400R.010G1	400RT.010G1	1	1	5	38	4
400R.010	400RT.010	1	3	2.5	40	4
400R.015G15	400RT.015G15	1.5	1.5	5	38	4
400R.015	400RT.015	1.5	3	4	40	4
400R.020G2	400RT.020G2	2	2	8	38	4
400R.020	400RT.020	2	3	5	40	4
400R.025G25	400RT.025G25	2.5	2.5	8	38	4
400R.025	400RT.025	2.5	3	7	40	4
400R.030	400RT.030	3	3	12	40	4
400RL.030	400RLT.030	3	3	30	60	4
400RL.030.1	400RLT.030.1	3	3	30	75	4
400R.040	400RT.040	4	4	16	50	4
400RL.040	400RLT.040	4	4	30	60	4
400RL.040.1	400RLT.040.1	4	4	30	75	4
400R.045	400RT.045	4.5	4.5	16	50	4
400R.050	400RT.050	5	5	20	50	4
400RL.050	400RLT.050	5	5	35	70	4
400RL.050.1	400RLT.050.1	5	5	40	100	4
400R.055	400RT.055	5.5	5.5	20	50	4
400R.060	400RT.060	6	6	20	50	4
400RL.060	400RLT.060	6	6	40	100	4
400RL.060.1	400RLT.060.1	6	6	50	150	4
400R.070	400RT.070	7	7	22	60	4
400R.080	400RT.080	8	8	22	60	4
400RL.080	400RLT.080	8	8	40	100	4
400RL.080.1	400RLT.080.1	8	8	50	150	4
400R.090	400RT.090	9	9	22	70	4
400R.100	400RT.100	10	10	25	70	4
400RL.100	400RLT.100	10	10	45	100	4
400RL.100.1	400RLT.100.1	10	10	60	150	4
400R.110	400RT.110	11	11	27	75	4
400R.120	400RT.120	12	12	27	75	4
400RL.120	400RLT.120	12	12	45	100	4
400RL.120.1	400RLT.120.1	12	12	75	150	4
400R.130	400RT.130	13	13	27	75	4
400R.140	400RT.140	14	14	30	85	4
400RL.140	400RLT.140	14	14	45	100	4
400RL.140.1	400RLT.140.1	14	14	65	150	4
400RL.140.2	400RLT.140.2	14	14	75	150	4
400R.150	400RT.150	15	15	30	85	4
400RL.150	400RLT.150	15	15	45	100	4
400R.160	400RT.160	16	16	30	85	4
400RL.160	400RLT.160	16	16	45	100	4
400RL.160.1	400RLT.160.1	16	16	65	150	4
400RL.160.2	400RLT.160.2	16	16	75	150	4
400R.180	400RT.180	18	18	40	100	4
400RL.180	400RLT.180	18	18	50	150	4
400RL.180.1	400RLT.180.1	18	18	65	150	4
400RL.180.2	400RLT.180.2	18	18	75	150	4
400R.200	400RT.200	20	20	40	100	4
400RL.200	400RLT.200	20	20	55	150	4
400RL.200.1	400RLT.200.1	20	20	65	150	4
400RL.200.2	400RLT.200.2	20	20	75	150	4
400R.250	400RT.250	25	25	40	100	4
400RL.250	400RLT.250	25	25	55	150	4
400RL.250.1	400RLT.250.1	25	25	75	150	4

→ Help 161-200

*d1 ≤ ø 6 h9
d1 ≤ ø25 f7



Fresa conica testa piana in metallo duro integrale

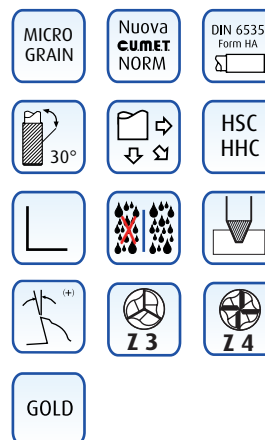
Solid carbide flat nose die tapered end mill

VHM - Schaftfräser Konisch - Fraise carbure conique à bout plat

Фреза концевая твердосплавная коническая - Sk rohová fréza se zuženou stopkou



CODE	d1h8 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
300C.025.05	2.5	4	20	60	3	1/2°
300C.030.05	3	4	20	60	3	
300C.040.05	4	5	20	60	3	
300C.060.05	6	8	30	75	4	
300C.080.05	8	10	30	70	4	
300C.100.05	10	12	30	75	4	
300C.120.05	12	14	30	85	4	
300C.120.05.1	12	14	50	100	4	
300C.025.1	2.5	4	20	60	3	1°
300C.030.1	3	4	20	60	3	
300C.040.1	4	5	20	60	3	
300C.050.1	5	6	30	75	3	
300C.060.1	6	8	30	75	3	
300C.060.1L	6	8	57	120	3	
300C.080.1	8	10	30	70	4	
300C.080.1L	8	10	57	120	4	
300C.100.1	10	12	30	75	4	1-1/2°
300C.120.1	12	14	50	100	4	
300C.025.15	2.5	4	20	60	3	
300C.030.15	3	4	20	60	3	
300C.040.15	4	5	20	60	3	
300C.050.15	5	8	30	75	3	
300C.060.15	6	8	30	75	3	
300C.080.15	8	10	30	70	4	
300C.100.15	10	12	30	75	4	2°
300C.120.15	12	16	50	100	4	
300C.025.2	2.5	4	20	60	3	
300C.060.2	6	10	57	120	3	
300C.060.2L	6	12	85	150	3	
300C.070.2	7	10	40	100	3	
300C.080.2	8	10	28	100	3	
300C.080.2L	8	12	57	150	4	
300C.080.2L1	8	14	85	200	4	3°
300C.100.2	10	14	57	200	4	
300C.025.3	2.5	6	20	60	3	
300C.030.3	3	6	25	60	3	
300C.030.3L	3	8	40	75	3	
300C.040.3	4	8	30	75	3	
300C.060.3	6	10	30	70	3	
300C.060.3L	6	12	50	100	3	
300C.060.3L1	6	12	57	150	4	5°
300C.080.3	8	12	30	75	4	
300C.100.3L	10	16	50	100	4	
300C.025.5	2.5	6	20	60	3	
300C.030.5	3	10	30	70	3	
300C.030.5L	3	10	40	100	3	
300C.035.5	3.5	12	50	100	3	
300C.040.5	4	8	22	60	3	
300C.040.5L	4	10	30	70	3	
300C.050.5	5	12	40	100	3	
300C.060.5	6	12	30	75	3	
300C.060.5L	6	16	50	100	3	
300C.060.5L1	6	16	57	200	4	
300C.080.5	8	18	50	100	4	
300C.100.5	10	16	30	100	4	
300C.100.5L	10	20	50	100	4	
300C.120.5	12	18	30	100	4	



→ Help 197-198

Fresa conica testa sferica in metallo duro integrale

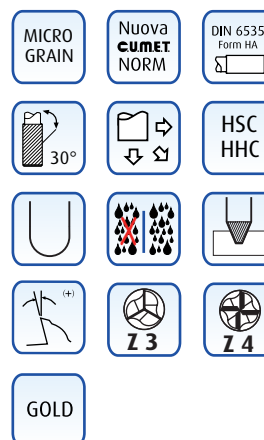
Solid carbide ball nose die tapered end mill

VHM - Radiusfräser Konisch - Fraise carbure conique à bout hémisphérique

Фреза концевая твердосплавная полусферическая коническая - Sk kulová fréza se zuženou stopkou



CODE	d1h8 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
300CR.030.05	3	4	20	60	3	1/2°
300CR.040.05	4	5	20	60	3	
300CR.050.05	5	6	30	75	3	
300CR.060.05	6	8	30	75	4	
300CR.080.05	8	10	30	70	4	
300CR.100.05	10	12	30	75	4	
300CR.120.05.1	12	14	50	100	4	1°
300CR.030.1	3	4	20	60	3	
300CR.040.1	4	5	20	60	3	
300CR.050.1	5	6	30	75	3	
300CR.060.1	6	8	30	75	3	
300CR.060.1L	6	8	57	120	3	
300CR.080.1	8	10	30	70	4	
300CR.080.1L	8	10	57	120	4	
300CR.100.1	10	12	30	75	4	
300CR.120.1	12	14	50	100	4	
300CR.160.1	16	18	55	100	4	
300CR.025.15	2.5	4	20	60	3	
300CR.030.15	3	4	20	60	3	
300CR.040.15	4	5	20	60	3	
300CR.050.15	5	8	30	75	3	
300CR.060.15	6	8	30	75	3	
300CR.080.15	8	10	30	70	4	
300CR.100.15	10	12	30	75	4	
300CR.120.15	12	16	50	100	4	2°
300CR.060.2	6	10	57	120	3	
300CR.060.2L	6	12	85	150	3	
300CR.070.2	7	10	40	100	3	
300CR.080.2	8	10	28	100	4	
300CR.080.2L	8	12	57	150	4	
300CR.080.2L1	8	14	85	200	4	
300CR.100.2	10	14	57	200	4	3°
300CR.025.3	2.5	6	20	65	3	
300CR.030.3	3	6	25	65	3	
300CR.030.3L	3	8	40	75	3	
300CR.040.3	4	8	30	75	3	
300CR.050.3	5	10	40	70	3	
300CR.060.3	6	10	30	70	3	
300CR.060.3L	6	12	50	100	3	
300CR.060.3L1	6	12	57	150	4	
300CR.080.3	8	12	30	75	4	
300CR.080.3L	8	14	50	100	4	
300CR.080.3L1	8	14	57	200	4	
300CR.100.3	10	14	30	85	4	5°
300CR.100.3L	10	16	50	100	4	
300CR.100.3L1	10	16	57	200	4	
300CR.120.3	12	18	50	100	4	
300CR.025.5	2.5	6	20	60	3	
300CR.030.5	3	10	30	70	3	
300CR.030.5L	3	10	40	100	3	
300CR.035.5	3.5	12	50	100	3	
300CR.040.5	4	8	22	60	3	
300CR.040.5L	4	10	30	70	3	
300CR.050.5	5	12	40	100	3	
300CR.060.5	6	12	30	75	3	
300CR.080.5	8	18	50	100	4	
300CR.100.5	10	16	30	100	4	
300CR.100.5L	10	20	50	100	4	
300CR.120.5	12	20	40	100	4	



→ Help 161-200