

Fresa a semifinire in metallo duro integrale

Solid carbide semi-finishing end mill

VHM - Schrupp Schlichtfräser - Fraise carbure pour semifinition

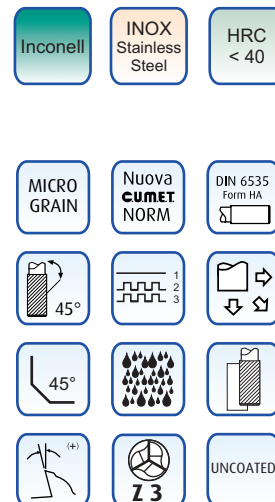
Фреза концевая твердосплавная для полужесткой обработки - Sk polodokončovací fréza



CODE	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
451.060	6	6	16	50	3
451.080	8	8	20	60	3
45108100	8	8	40	100	3
451.100	10	10	22	70	3
45110100	10	10	45	100	3
451.120	12	12	27	75	3
45112100	12	12	45	100	3
451.140	14	14	27	85	3
451.150	15	15	30	85	3
451.160	16	16	30	85	3
45116100	16	16	45	100	3
45116150	16	16	65	150	3
451.180	18	18	38	100	3
451.200	20	20	38	100	3
45120150	20	20	65	150	3

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*d1 ≤ ø 6 h9
d1 ≤ ø20 f7



Frese rompitrucolo in metallo duro itegrale

Solid carbide roughing end mill

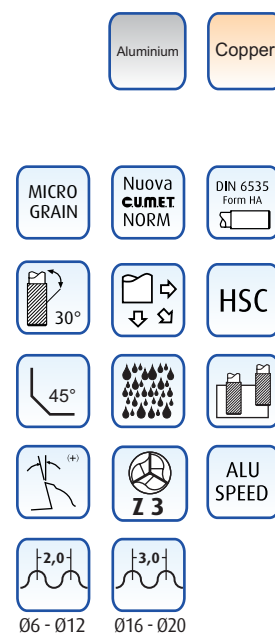
VHM-Schruppfräser - Fraise carbure à degrossir

Фреза твердосплавная концевая черновая - Sk hrubovací fréza



CODE	d1h11 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
T220206057	6	6	13	-	57	-	3
T220208063	8	8	19	-	63	-	3
T220208075	8	8	19	35	75	7.4	3
T220208075.1	8	8	28	-	75	-	3
T220210072	10	10	22	-	72	-	3
T220210080	10	10	22	43	80	9.5	3
T220210080.1	10	10	34	-	80	-	3
T220212083	12	12	26	-	83	-	3
T220212100	12	12	26	50	100	11.5	3
T220212100.1	12	12	40	-	100	-	3
T220216092	16	16	32	-	92	-	3
T220216109	16	16	32	60	109	15.5	3
T220216100	16	16	45	-	100	-	3
T220220100	20	20	40	-	100	-	3
T220220120	20	20	40	70	120	19.5	3
T220220150	20	20	65	-	150	-	3

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Fresa a grossare in metallo duro integrale

Solid carbide roughing end mill

VHM - Schruppfräser - Fraise carbure à dégrossir

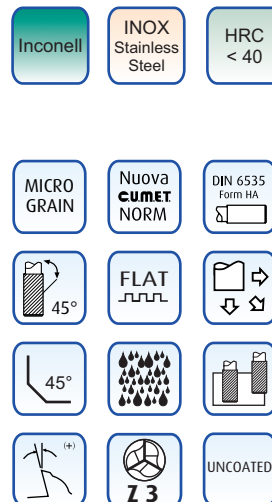
Фреза концевая твердосплавная для черновой обработки - Sk hrubovací fréza



CODE	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
452.030	3	3	10	40	3
452.035	3.5	3.5	10	40	3
452.040	4	4	12	50	3
452.045	4.5	4.5	12	50	3
452.050	5	5	12	50	3
452.060	6	6	16	50	3
452.080	8	8	20	60	3
452.090	9	9	20	70	3
452.100	10	10	22	70	3
452.110	11	11	22	70	3
452.120	12	12	27	75	3
452.140	14	14	27	85	3
452.150	15	15	30	85	3
452.160	16	16	30	85	3
452.180	18	18	38	100	3
452.200	20	20	38	100	3

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*d1 ≤ ø 6 h9
d1 ≤ ø20 f7



Fresa a grossare in metallo duro integrale

Solid carbide roughing end mill

VHM - Schruppfräser - Fraise carbure à dégrossir

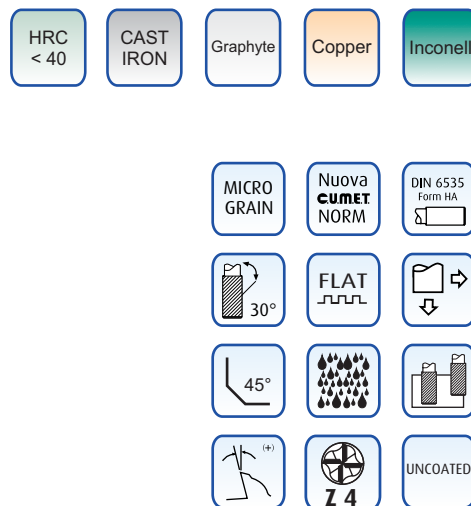
Фреза концевая твердосплавная для черновой обработки - Sk hrubovací fréza



CODE	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
T2006	6	6	20	50	4
T2006L	6	6	40	100	4
T2008	8	8	22	60	4
T2008L	8	8	40	100	4
T2010	10	10	25	70	4
T2010L	10	10	45	100	4
T2012	12	12	27	75	4
T2012L	12	12	45	100	4
T2012L.1	12	12	75	150	4
T2014	14	14	27	85	4
T2014L	14	14	45	100	4
T2014L.1	14	14	65	150	4
T2016	16	16	30	85	4
T2016L	16	16	45	100	4
T2016L.1	16	16	75	150	4
T2018	18	18	40	100	4
T2018L	18	18	65	150	4
T2018L.1	18	18	75	150	4
T2020	20	20	40	100	4
T2020L	20	20	55	150	4
T2020L.1	20	20	65	150	4
T2020L.2	20	20	75	150	4
T2025	25	25	40	100	4
T2025L	25	25	65	150	4
T2025L.1	25	25	75	150	4

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*d1 ≤ ø 6 h9
d1 ≤ ø25 f7



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VHM - Schrupp Schlichtfräser - Fraise carbure pour semifinition

Фреза концевая твердосплавная для получистой обработки - Sk polodokončovací fréza



CODE	*d1 mm	d2h6 mm	l1 mm	L mm	Z no.
T4006	6	6	20	50	4
T4006L	6	6	40	100	4
T4008	8	8	22	60	4
T4008L	8	8	40	100	4
T4010	10	10	25	70	4
T4010L	10	10	45	100	4
T4012	12	12	27	75	4
T4012L	12	12	45	100	4
T4012L.1	12	12	75	150	4
T4014	14	14	27	85	4
T4014L	14	14	45	100	4
T4014L.1	14	14	65	150	4
T4016	16	16	30	85	4
T4016L	16	16	45	100	4
T4016L.1	16	16	75	150	4
T4018	18	18	40	100	4
T4018L	18	18	65	150	4
T4018L.1	18	18	75	150	4
T4020	20	20	40	100	4
T4020L	20	20	55	150	4
T4020L.1	20	20	65	150	4
T4020L.2	20	20	75	150	4
T4025	25	25	40	100	4
T4025L	25	25	65	150	4
T4025L.1	25	25	75	150	4



HRC < 40

CAST IRON

Graphyte

Copper

Inconell

MICRO GRAIN

Nuova CUMET NORM

DIN 6535 Form HA

30°

1
2
3
4

45°

Z 4

UNCOATED

*d1 ≤ ø 6 h9
d1 ≤ ø25 f7

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Fresa rompitrucolo antivibrante in metallo duro integrale

Solid carbide anti-vibration roughing end mill

VHM - Schruppfräser Schwingungsdämpfer - Fraise carbure à dégrossir à Haute Performance

Фреза концевая твердосплавная для черновой обработки высокопроизводительная

Sk hrubovací vysoce výkonná fréza



CODE	d1h11 mm	d2h6 mm	l1 mm	L mm	Z no.
T220103050	3	6	8	50	3
T220104050	4	6	12	50	3
T220105050	5	6	15	50	3
T220106050	6	6	16	50	4
T220108060	8	8	22	60	4
T220110070	10	10	25	70	4
T220112075	12	12	27	75	4
T220116085	16	16	30	85	4
T220116100	16	16	45	100	4
T220116150	16	16	65	150	4
T220120100	20	20	40	100	4
T220120150	20	20	65	150	4



HRC < 50

CAST IRON

INOX Stainless Steel

Ti-Alloy

Ni-Alloy

MICRO GRAIN

Nuova CUMET NORM

DIN 6535 Form HA

Variable

ANTI VIBRATION

45°

Z 3

Z 4

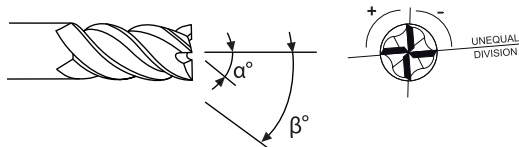
03-05

06-020

1mm

1,5

HYPER



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Fresa rompitruciolo in metallo duro integrale

Solid carbide roughing end mill

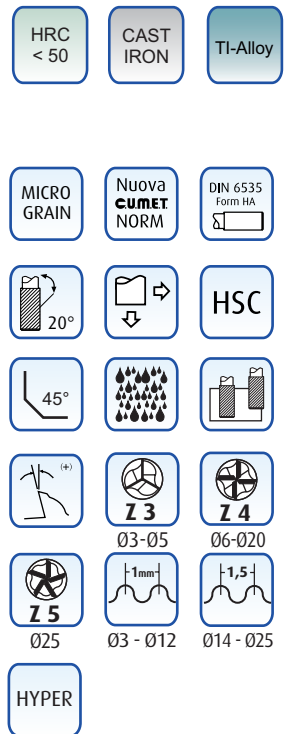
VHM - Schruppfräser - Fraise carbure profil ébauche

Фреза концевая твердосплавная для черновой обработки - Sk hrubovací fréza



CODE	d1h11 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
T220303050	3	6	8	50	3	13°
T220304050	4	6	12	50	3	14°
T220305050	5	6	15	50	3	4° 1/2
T220306050	6	6	20	50	4	-
T220306100	6	6	40	100	4	-
T220308060	8	8	22	60	4	-
T220308100	8	8	40	100	4	-
T220310070	10	10	25	70	4	-
T220310100	10	10	45	100	4	-
T220312075	12	12	27	75	4	-
T220312100	12	12	45	100	4	-
T220314085	14	14	27	85	4	-
T220314100	14	14	45	100	4	-
T220314150	14	14	65	150	4	-
T220316085	16	16	30	85	4	-
T220316100	16	16	45	100	4	-
T220316150	16	16	75	150	4	-
T220318100	18	18	40	100	4	-
T220318150	18	18	65	150	4	-
T220318150.1	18	18	75	150	4	-
T220320100	20	20	40	100	4	-
T220320150	20	20	65	150	4	-
T220320150.1	20	20	75	150	4	-
T220325100	25	25	40	100	5	-
T220325150	25	25	65	150	5	-
T220325150.1	25	25	75	150	5	-

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Fresa rompitruciolo in metallo duro integrale

Solid carbide roughing end mill

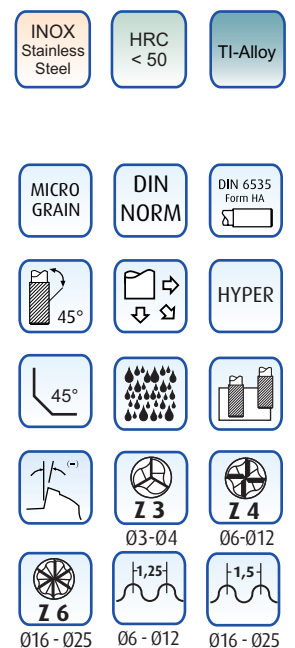
VHM - Schruppfräser - Fraise carbure profil ébauche

Фреза концевая твердосплавная для черновой обработки - Sk hrubovací fréza



CODE	d1h11 mm	d2h6 mm	l1 mm	L mm	Z no.	α°
T22040308057	3	6	8	57	3	13°
T22040412057	4	6	12	57	3	14°
T22040613057	6	6	13	57	4	4° 1/2
T22040816063	8	8	16	63	4	-
T22041022070	10	10	22	70	4	-
T22041226075	12	12	26	75	4	-
T22041632092	16	16	32	92	6	-
T22042038104	20	20	38	104	6	-
T22042545121	25	25	45	121	6	-

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Fresa rompitruciolo testa raggiata in metallo duro integrale

Solid carbide ball nose roughing end mill

VHM - Radius Schruffräser - Fraise carbure hémisphérique a profil ébauche

Фреза концевая твердосплавная для черновой обработки - Sk kulová hrubovací fréza



CODE	d1h11 mm	d2h6 mm	l1 mm	L mm	Z no.
T2204R.050	5	6	13	57	3
T2204R.060	6	6	13	57	3
T2204R.080	8	8	16	63	4
T2204R.100	10	10	22	70	4
T2204R.120	12	12	26	75	4
T2204R.140	14	14	26	85	4
T2204R.160	16	16	32	92	4
T2204R.180	18	18	32	92	4
T2204R.200	20	20	38	100	4

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	05-06	08-020
06 - 012	014 - 020	