

EPP **Epoch Power Mill**

An Innovation in Multifunction End Mill Design

Micro Grain Carbide - TiAlN Century Coated



D3mm ~ D20mm

- ***For Materials ≤ 60 HRC***
- ***Corner Radius Types:***
CR 0.2 | 0.3 | 0.5 | 1.0
1.5 | 2.0

EPPS | Epoch Power Mill Short

Q max
High Efficient

▽
Roughing

▽▽
Semi-Finishing

▽▽▽
Finishing

HRC
60

No. of Teeth
4



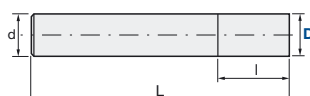
B



A



B



Carbide
Micro Grain

C
Century Coating

Rake Angle
Positive



Helix Angle	D Tol. [mm]	d Tol.
43°	D1~D6 : 0/-0.015 D8~D20: 0/-0.02	h6

ID Code	Item Code	Z	D	I	L	d	Type
EP229	EPPS-4030	4	3	4.5	60	6	A
EP230	EPPS-4040		4	6			
EP231	EPPS-4050		5	7.5			
EP232	EPPS-4060		6	9			
EP233	EPPS-4080		8	12	75	8	B
EP234	EPPS-4100		10	15	80	10	
EP235	EPPS-4120		12	18	100	12	
EP236	EPPS-4160		16	24	110	16	
EP237	EPPS-4200		20	30	125	20	

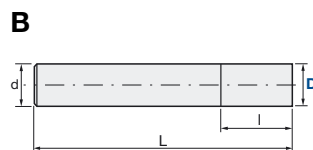
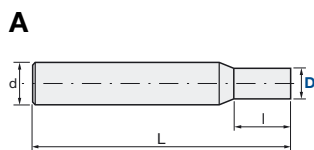
Cutting Conditions | Schnittwerte | Condizioni di taglio | Condiciones de Corte | Conditions de coupe | Valores de corte:

D3 – D20

p. 11

EPP | Epoch Power Mill

Q max High Efficient	▽ Roughing	▽▽ Semi-Finishing	▽▽▽ Finishing	HRC 60	No. of Teeth 4
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Carbide Micro Grain	C Century Coating	Rake Angle Positive
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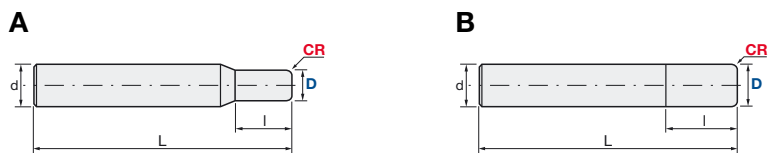
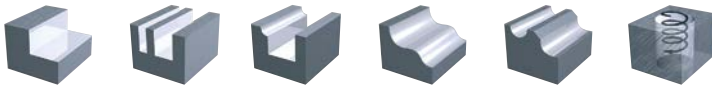


Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D6: 0/-0.015 D8~D20: 0/-0.02	h6

ID Code	Item Code	Z	D	I	L	d	Type
EP031	EPP-4030	4	3	8	60	6	A
EP032	EPP-4040		4	11			
EP033	EPP-4050		5	13			
EP034	EPP-4060		6				
EP035	EPP-4080		8	19	75	8	B
EP036	EPP-4100		10	22	80	10	
EP037	EPP-4120		12	26	100	12	
EP038	EPP-4160		16	32	110	16	

EPP-00 | Epoch Power Mill Corner Radius

Q max High Efficient	▽ Roughing	▽▽ Semi-Finishing	▽▽▽ Finishing	HRC 60	No. of Teeth 4
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Carbide Micro Grain	C Century Coating	Rake Angle Positive
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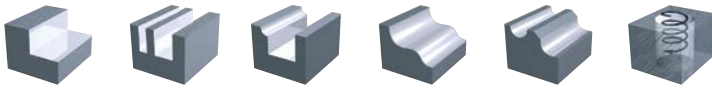


Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D6: 0/-0.015 D8~D20: 0/-0.02	h6

ID Code	Item Code	Z	CR	D	I	L	d	Type
EP041	EPP-4030-02	4	0.2	3	8	60	6	A
EP042	EPP-4030-05		0.5					
EP043	EPP-4040-02		0.2	4	11			
EP044	EPP-4040-05		0.5					
EP045	EPP-4040-10		1	5	13			
EP046	EPP-4050-02		0.2					
EP047	EPP-4050-05		0.5	6	13			
EP048	EPP-4050-10		1					
EP049	EPP-4060-03		0.3					
EP050	EPP-4060-05		0.5					
EP051	EPP-4060-10		1					
EP052	EPP-4060-15		1.5					
EP053	EPP-4080-03		0.3	8	19	75	8	B
EP054	EPP-4080-05		0.5					
EP055	EPP-4080-10		1					
EP056	EPP-4080-15		1.5					
EP057	EPP-4080-20		2					

EPP-00 | Epoch Power Mill Corner Radius

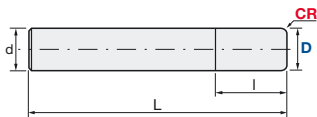
Q max High Efficient	▽ Roughing	▽▽ Semi-Finishing	▽▽▽ Finishing	HRC 60	No. of Teeth 4
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B



B



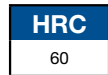
Carbide Micro Grain	C Century Coating	Rake Angle Positive
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Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D6: 0/-0.015 D8~D20: 0/-0.02	h6

ID Code	Item Code	Z	CR	D	I	L	d	Type
EP058	EPP-4100-05	4	0.5	10	22	80	10	B
EP059	EPP-4100-10		1					
EP060	EPP-4100-15		1.5					
EP061	EPP-4100-20		2					
EP062	EPP-4120-05		0.5	12	26	100	12	
EP063	EPP-4120-10		1					
EP146	EPP-4120-15		1.5					
EP147	EPP-4120-20		2					
EP148	EPP-4160-10		1	16	32	110	16	
EP149	EPP-4160-15		1.5					
EP150	EPP-4160-20		2					
EP151	EPP-4160-30		3					

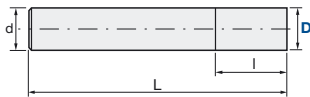
EPPL | Epoch Power Mill Long



B



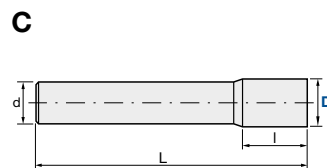
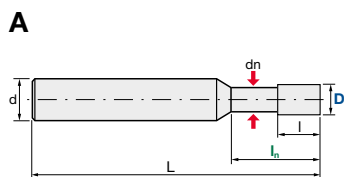
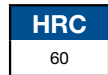
B



Helix Angle	D Tol. [mm]	d Tol.
43°	D6: 0/-0.015 D8~D20: 0/-0.02	h6

ID Code	Item Code	Z	D	l	L	d	Type
EP238	EPPL-4060	4	6	25	70	6	B
EP239	EPPL-4080		8	35	90	8	
EP240	EPPL-4100		10	45	100	10	
EP241	EPPL-4120		12	55	120	12	
EP242	EPPL-4160		16	65	135	16	
EP243	EPPL-4200		20	75	155	20	

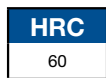
EPPLS | Epoch Power Mill Long Shank



Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D5: 0/-0.015	h6
	D7~D17: 0/-0.02	

ID Code	Item Code	Z	D	ln	l	dn	L	d	Type
EP156	EPPLS-4030	4	3	10.5	4.5	2.9	80	6	A
EP157	EPPLS-4040		4	14	6	3.8			
EP158	EPPLS-4050		5	17.5	7.5	4.8	100		
EP159	EPPLS-4070		7		9		120		
EP160	EPPLS-4090		9	-	12	-	135	8	C
EP161	EPPLS-4110		11		15		150	10	
EP162	EPPLS-4130		13		18		160	12	
EP163	EPPLS-4170		17		24		180	16	

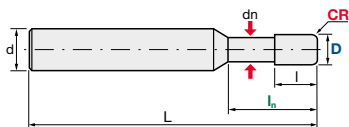
EPPLS-00 | Epoch Power Mill Long Shank Corner Radius



C



A



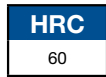
C



Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D5: 0/-0.015 D7~D17: 0/-0.02	h6

ID Code	Item Code	Z	CR	D	I _n	I	dn	L	d	Type				
EP164	EPPLS-4030-02	4	0.2	3	10.5	4.5	2.9	80	6	A				
EP165	EPPLS-4030-05		0.5											
EP166	EPPLS-4040-02		0.2	4	14	6	3.8	100						
EP167	EPPLS-4040-05		0.5											
EP168	EPPLS-4050-02		0.2	5	17.5	7.5	4.8	120						
EP169	EPPLS-4050-05		0.5											
EP170	EPPLS-4070-03		0.3	7	-	9	-	135	8	C				
EP171	EPPLS-4070-05		0.5											
EP172	EPPLS-4070-10		1	9		12		150						
EP173	EPPLS-4090-05		0.5											
EP174	EPPLS-4090-10		1	11		15		150	10					
EP175	EPPLS-4090-15		1.5											
EP176	EPPLS-4110-05		0.5											
EP177	EPPLS-4110-10		1											
EP178	EPPLS-4110-15		1.5											

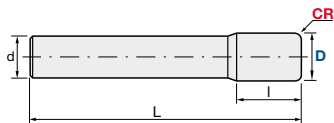
EPPLS-00 | Epoch Power Mill Long Shank Corner Radius



C



C



Helix Angle	D Tol. [mm]	d Tol.
43°	D3~D5: 0/-0.015 D7~D17: 0/-0.02	h6

ID Code	Item Code	Z	CR	D	I	L	d	Type
EP179	EPPLS-4130-05	4	0.5	13	18	160	12	C
EP180	EPPLS-4130-10		1					
EP182	EPPLS-4130-20		2					
EP183	EPPLS-4170-10		1	17	24	180	16	
EP184	EPPLS-4170-15		1.5					
EP185	EPPLS-4170-20		2					

MATERIAL CLASSIFICATION:

- I. Carbon Steels, Construction Steels
up to 200HB (~700 N/mm²)
- II. Alloy Steels, Case Hardening Steels,
Heat Treatable Steels
200~300HB (~1,000 N/mm²)
- III. Alloy Steels
30~45HRC (~1,400 N/mm²)
- IV. Tool Steels (hot & cold), Hardened Steels
45~55HRC (~2,000 N/mm²)
- V. Tool Steels (cold), Hardened Steels, HSS
55~70HRC (2,000 N/mm² ~)
- VI. Stainless Steels
20~40HRC (800~1,200 N/mm²)
- VII. Heat Resisting Steels, Titanium,
Nickel & Cobalt Alloys, incl. Inconel
25~60HRC (850~2,180 N/mm²)
- VIII. Cast Irons (GG), Ductile Cast Iron (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Aluminium, Copper Alloys, incl. Brass

MATERIALKLASSIFIKATION:

- I. Kohlenstoffstähle, Baustähle
bis 200HB (~700 N/mm²)
- II. Legierte Stähle, Einsatzstähle,
Hitzebehandelbare Stähle
200~300HB (~1.000 N/mm²)
- III. Legierte Stähle
30~45HRC (~1.400 N/mm²)
- IV. Werkzeugstähle (warm & kalt), Gehärtete Stähle
45~55HRC (~2.000 N/mm²)
- V. Werkzeugstähle (kalt), Gehärtete Stähle, HSS
55~70HRC (2.000 N/mm² ~)
- VI. Rostfreie Stähle
20~40HRC (800~1.200 N/mm²)
- VII. Hitzebeständige Stähle,
Titan, Nickel & Kobalt Legierungen, inkl. Inconel
25~60HRC (850~2.180 N/mm²)
- VIII. Gusseisen (GG), Schmiedbares Gusseisen (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Aluminium, Kupfer-Legierungen, inkl. Bronze

CLASSIFICATION POUR LES MATIERES:

- I. Acier au carbone, Acier de construction
jusqu'à 200HB (~700 N/mm²)
- II. Acier allié, Acier coulé,
200~300HB (~1.000 N/mm²)
- III. Acier allié
30~45HRC (~1.400 N/mm²)
- IV. Acier à outil, Acier traité
45~55HRC (~2.000 N/mm²)
- V. Acier à outil, Acier traité, Acier rapide
55~70HRC (2.000 N/mm² ~)
- VI. Acier inoxydable
20~40HRC (800~1.200 N/mm²)
- VII. Acier résistant à la chaleur, Titane,
Nickel et alliage, Inconel
25~60HRC (850~2.180 N/mm²)
- VIII. Fonte malléable (GG), Fonte sphéroïdale (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Aluminium et alliage de cuivre, Laiton

CLASIFICACION DE MATERIAL:

- I. Acero, Acero de construcción
hasta 200HB (~700 N/mm²)
- II. Acero aleado, Acero de cementación,
Acero termo-tratable
200~300HB (~1.000 N/mm²)
- III. Acero aleado
30~45HRC (~1.400 N/mm²)
- IV. Acero de herramienta (frio & caliente),
Acero endurecido
45~55HRC (~2.000 N/mm²)
- V. Acero de herramienta (frio), Acero endurecido,
Acero rápido
55~70HRC (2.000 N/mm² ~)
- VI. Acero inoxidable
20~40HRC (800~1.200 N/mm²)
- VII. Acero termo-resistente,
Aleaciones exóticas (Ti, Ni, Co)
25~60HRC (850~2.180 N/mm²)
- VIII. Fundición (GG), Fundición maleable (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Aleaciones de aluminio y cobre, Latón

CLASSIFICAZIONE DEL MATERIALE:

- I. acciaio al carbonio, acciaio da costruzione
superiore a 200HB (~700 N/mm²)
- II. acciaio legato,
acciaio flammato (tempra ad induzione)
200~300HB (~1.000 N/mm²)
- III. acciaio legato
30~45HRC (~1.400 N/mm²)
- IV. acciaio per utensile (caldo & freddo),
acciaio temprato
45~55HRC (~2.000 N/mm²)
- V. acciaio per utensile (freddo), acciaio temprato, HSS
55~70HRC (2.000 N/mm² ~)
- VI. acciaio inossidabile
20~40HRC (800~1.200 N/mm²)
- VII. acciaio resistente al calore,
Ti-, Ni-, Co-legato, Inconel
25~60HRC (850~2.180 N/mm²)
- VIII. ghisa (GG), ghisa malleabile (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Al-, Cu-legato, Ottone

CLASSIFICAÇÃO DO MATERIAL:

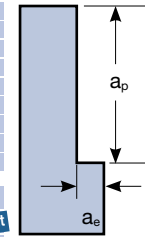
- I. Aço carbono, Aço de Construção
até 200HB (~700 N/mm²)
- II. Liga de Aço, Aço cementado, Aço endurecido
por tratamento térmico
200~300HB (~1,000 N/mm²)
- III. Liga de aço
30~45HRC (~1,400 N/mm²)
- IV. Aço para ferramentas (quente & frio), Aço temperado
45~55HRC (~2,000 N/mm²)
- V. Aço para ferramentas (frio), Aço temperado, HSS
55~70HRC (2,000 N/mm² ~)
- VI. Aço inoxidável
20~40HRC (800~1,200 N/mm²)
- VII. Aço refratário, Ligas de Titânio, Níquel & Cobalto, incluindo
Inconel 25~60HRC (850~2,180 N/mm²)
- VIII. Ferro fundido (GG), Ferro fundido dúctil (GGG)
GG~120HB (100~400 N/mm²)
GGG~240HB (350~800 N/mm²)
- IX. Ligas de Alumínio e Cobre, incluindo Bronze.



EPOCH POWER MILL | Recommended Cutting Conditions

Material Class		I			II			III			IV			V
$a_p \times a_e$ V_c		1.5D x 0.1D 150 m/min			1.5D x 0.1D 120 m/min			1.5D x 0.1D 90 m/min			1.5D x 0.05D 70 m/min			not recommended
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	15,900	0.035	2,230	12,700	0.030	1,520	9,550	0.021	800	7,430	0.015	450	
4	4	11,900	0.050	2,380	9,550	0.040	1,530	7,160	0.028	800	5,570	0.020	450	
5	4	9,550	0.065	2,480	7,640	0.055	1,680	5,730	0.035	800	4,460	0.025	450	
6	4	7,960	0.080	2,550	6,370	0.070	1,780	4,770	0.045	860	3,710	0.030	450	
8	4	5,970	0.105	2,510	4,770	0.095	1,810	3,580	0.055	790	2,790	0.040	450	
10	4	4,770	0.120	2,290	3,820	0.115	1,760	2,860	0.065	740	2,230	0.050	450	
12	4	3,980	0.130	2,070	3,180	0.120	1,530	2,390	0.075	720	1,860	0.060	450	
16	4	2,980	0.140	1,670	2,390	0.130	1,240	1,790	0.090	640	1,390	0.070	390	
20	4	2,390	0.140	1,340	1,910	0.130	990	1,430	0.090	510	1,110	0.070	310	

Material Class		VI			VII			VIII			IX			
$a_p \times a_e$ V_c		1.5D x 0.05D 100 m/min			1.5D x 0.05D 50 m/min			1.5D x 0.1D 150 m/min			1.5D x 0.1D 200 m/min			
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	10,600	0.030	1,270	5,310	0.015	320	15,900	0.035	2,230	21,200	0.035	2,970	
4	4	7,960	0.040	1,270	3,980	0.020	320	11,900	0.050	2,380	15,900	0.050	3,180	
5	4	6,370	0.055	1,400	3,180	0.025	320	9,550	0.065	2,480	12,700	0.065	3,300	
6	4	5,310	0.070	1,490	2,650	0.030	320	7,960	0.080	2,550	10,600	0.080	3,390	
8	4	3,980	0.095	1,510	1,990	0.040	320	5,970	0.105	2,510	7,960	0.105	3,340	
10	4	3,180	0.120	1,530	1,590	0.050	320	4,770	0.120	2,290	6,370	0.120	3,060	
12	4	2,650	0.130	1,380	1,330	0.060	320	3,980	0.130	2,070	5,310	0.130	2,760	
16	4	1,990	0.140	1,110	990	0.070	280	2,980	0.140	1,670	3,980	0.140	2,230	
20	4	1,590	0.140	890	800	0.070	220	2,390	0.140	1,340	3,180	0.140	1,780	



Rampmilling: 2° ~ 3°

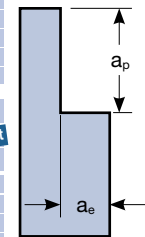
EPPLS

a_p = ~ 30% (-70%)
 a_e = ~ 70% (-30%)
r.p.m. = ~ 50%
 V_f = ~ 50%

wet cut = wet cutting is recommended

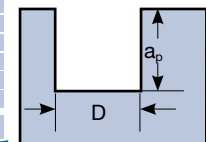
Material Class		I			II			III			IV			V
$a_p \times a_e$ V_c		1D x 0.5D 80 m/min			1D x 0.5D 70 m/min			0.5D x 0.5D 40 m/min			0.2D x 0.5D 20 m/min			not recommended
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	8,490	0.025	850	7,430	0.020	590	4,240	0.015	250	2,120	0.013	110	
4	4	6,370	0.035	890	5,570	0.030	670	3,180	0.025	320	1,590	0.018	110	
5	4	5,090	0.050	1,020	4,460	0.040	710	2,550	0.031	320	1,270	0.025	130	
6	4	4,240	0.060	1,020	3,710	0.050	740	2,120	0.038	320	1,060	0.030	130	
8	4	3,180	0.080	1,020	2,790	0.065	730	1,590	0.050	320	800	0.040	130	
10	4	2,550	0.100	1,020	2,230	0.085	760	1,270	0.063	320	640	0.050	130	
12	4	2,120	0.110	930	1,860	0.090	670	1,060	0.070	300	530	0.055	120	
16	4	1,590	0.120	760	1,390	0.100	560	800	0.080	260	400	0.060	100	
20	4	1,270	0.120	610	1,110	0.100	440	640	0.080	200	320	0.060	80	

Material Class		VI			VII			VIII			IX			
$a_p \times a_e$ V_c		0.5D x 0.5D 45 m/min			0.3D x 0.5D 30 m/min			0.5D x 0.5D 60 m/min			1D x 0.5D 150 m/min			
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	4,770	0.010	190	3,180	0.010	130	6,370	0.035	890	15,900	0.025	1,590	
4	4	3,580	0.015	210	2,390	0.015	140	4,770	0.050	950	11,900	0.035	1,670	
5	4	2,860	0.018	210	1,910	0.018	140	3,820	0.065	990	9,550	0.050	1,910	
6	4	2,390	0.025	240	1,590	0.023	150	3,180	0.080	1,020	7,960	0.060	1,910	
8	4	1,790	0.033	240	1,190	0.032	150	2,390	0.105	1,000	5,970	0.080	1,910	
10	4	1,430	0.042	240	950	0.040	150	1,910	0.135	1,030	4,770	0.100	1,910	
12	4	1,190	0.050	240	800	0.048	150	1,590	0.140	890	3,980	0.110	1,750	
16	4	900	0.060	220	600	0.055	130	1,190	0.145	690	2,980	0.120	1,430	
20	4	720	0.070	200	480	0.060	120	950	0.150	570	2,390	0.120	1,150	



Material Class		I			II			III			IV			V
a_p V_c		1D 80 m/min			1D 70 m/min			0.5D 40 m/min			0.2D 20 m/min			not recommended
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	8,490	0.025	850	7,430	0.020	590	4,240	0.015	250	2,120	0.013	110	
4	4	6,370	0.035	890	5,570	0.030	670	3,180	0.025	320	1,590	0.018	110	
5	4	5,090	0.050	1,020	4,460	0.040	710	2,550	0.031	320	1,270	0.025	130	
6	4	4,240	0.060	1,020	3,710	0.050	740	2,120	0.038	320	1,060	0.030	130	
8	4	3,180	0.080	1,020	2,790	0.065	730	1,590	0.050	320	800	0.040	130	
10	4	2,550	0.100	1,020	2,230	0.085	760	1,270	0.063	320	640	0.050	130	
12	4	2,120	0.110	930	1,860	0.090	670	1,060	0.070	300	530	0.055	120	
16	4	1,590	0.120	760	1,390	0.100	560	800	0.080	260	400	0.060	100	
20	4	1,270	0.120	610	1,110	0.100	440	640	0.080	200	320	0.060	80	

Material Class		VI			VII			VIII			IX			
a_p V_c		0.5D 45 m/min			0.3D 30 m/min			0.5D 60 m/min			1D 150 m/min			
D	Z	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	r.p.m.	f_z	V_f	
3	4	4,770	0.010	190	3,180	0.010	130	6,370	0.035	890	15,900	0.025	1,590	
4	4	3,580	0.015	210	2,390	0.015	140	4,770	0.050	950	11,900	0.035	1,670	
5	4	2,860	0.018	210	1,910	0.018	140	3,820	0.065	990	9,550	0.050	1,910	
6	4	2,390	0.025	240	1,590	0.023	150	3,180	0.080	1,020	7,960	0.060	1,910	
8	4	1,790	0.033	240	1,190	0.032	150	2,390	0.105	1,000	5,970	0.080	1,910	
10	4	1,430	0.042	240	950	0.040	150	1,910	0.135	1,030	4,770	0.100	1,910	
12	4	1,190	0.050	240	800	0.048	150	1,590	0.140	890	3,980	0.110	1,750	
16	4	900	0.060	220	600	0.055	130	1,190	0.145	690	2,980	0.120	1,430	
20	4	720	0.070	200	480	0.060	120	950	0.150	570	2,390	0.120	1,150	



Rampmilling: 2° ~ 3°

Always up to date: Please check our P50 QuickFinder



Attentions on Safety

1. Cautions regarding handling

- (1) When removing the tool from its case (packaging), be careful that the tool does not pop out or is dropped. Be particularly careful regarding contact with the tool flutes.
- (2) When handling tools with sharp cutting flutes, be careful not to touch the cutting flutes directly with your bare hands.

2. Cautions regarding mounting

- (1) Before use, check the outside appearance of the tool for scratches, cracks, etc. and that it is firmly mounted in the collet chuck, etc.
- (2) When preparing for use, be sure that the inserts are firmly mounted in place and that they are firmly mounted on the arbor, etc.
- (3) If abnormal chattering, etc. occurs during use, stop the machine immediately and remove the cause of the chattering.

3. Cautions during use

- (1) Before use, confirm the dimensions and direction of rotation of the tool and milling work material.
- (2) The numerical values in the standard cutting conditions table should be used as criteria when starting new work. The cutting conditions should be adjusted as appropriate when the cutting depth is large, the rigidity of the machine being used is low, or according to the conditions of the work material.
- (3) Cutting tools are made of a hard material. During use, they may break and fly off. In addition, cutting chips may also fly off. Since there is a danger of injury to workers, fire, or eye damage from such flying pieces, a safety cover should be attached when work is performed and safety equipment such as safety goggles should be worn to create a safe environment for work.
- (4) There is a risk of fire or inflammation due to sparks, heat due to breakage, and cutting chips. Do not use where there is a risk of fire or explosion. Please caution of fire while using oil base coolant, fire prevention is necessary.
- (5) Do not use the tool for any purpose other than that for which it is intended.

4. Cautions regarding regrinding

- (1) If regrinding is not performed at the proper time, there is a risk of the tool breaking. Replace the tool with one in good condition, or perform regrinding.
- (2) Grinding dust will be created when regrinding a tool. When regrinding, be sure to attach a safety cover over the work area and wear safety clothes such as safety goggles, etc.
- (3) This product contains the specified chemical substance cobalt and its inorganic compounds. When performing regrinding or similar processing, be sure to handle the processing in accordance with the local laws and regulations regarding prevention of hazards due to specified chemical substances.

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MOLDINO Tool Engineering Europe GmbH

Itterpark 12 · 40724 Hilden · Germany · Phone +49 (0) 21 03-24 82-0 · Fax +49 (0) 21 03-24 82-30
E-Mail info@moldino.eu · Internet www.moldino.eu
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