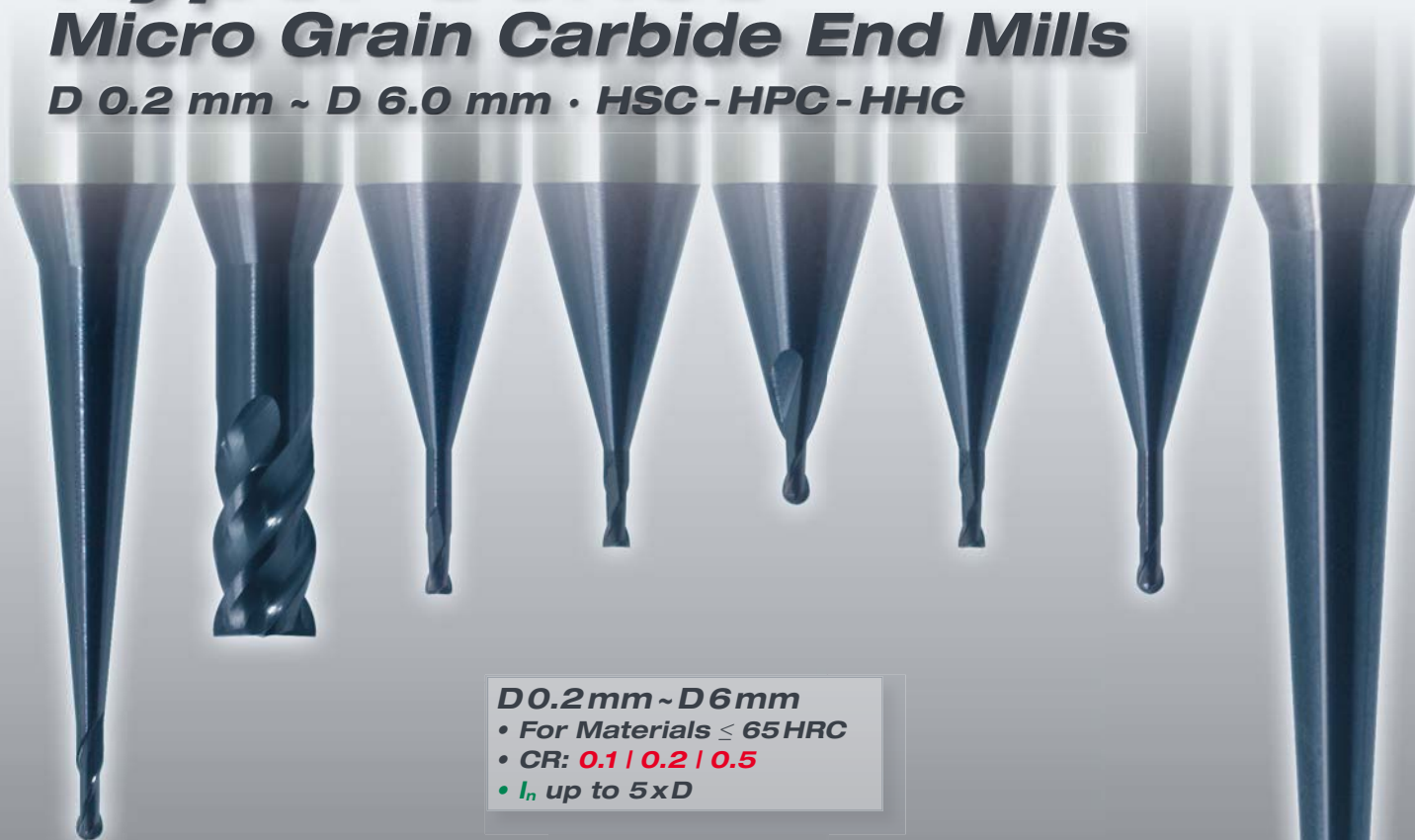


Hyper Series

Micro Grain Carbide End Mills

D 0.2 mm ~ D 6.0 mm • HSC - HPC - HHC



D 0.2 mm ~ D 6 mm
• For Materials $\leq 65\text{HRC}$
• CR: **0.1 | 0.2 | 0.5**
• l_n up to $5 \times D$



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Ball Type



D



Hyper Ball
HYPB



0.2 – 6 mm



3

Hyper Ball Long Neck
HPBLN



0.5 – 6 mm



4

Square Type



Hyper Square
HYPS



0.2 – 6 mm

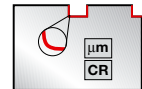


5

Hyper Square Corner Radius
HYPS-00



0.5 – 3 mm



7

Hyper Square Long Neck
HPSLN



0.5 – 6 mm

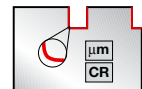


8

Hyper Square Long Neck Corner Radius
HPSLN-00



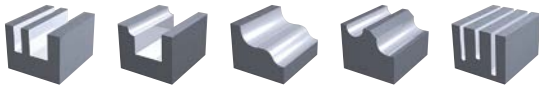
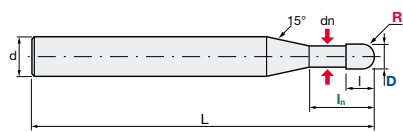
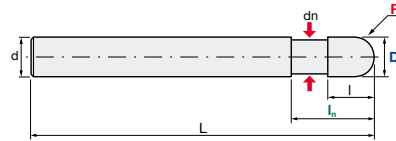
0.5 – 4 mm



9

HYPB | Hyper Ball

V max High Speed	▽▽ Semi-Finishing	▽▽▽ Finishing	HRC 65	Rib. Miniature	No. of Teeth 2
----------------------------	-----------------------------	-------------------------	------------------	-----------------------	--------------------------


A

B


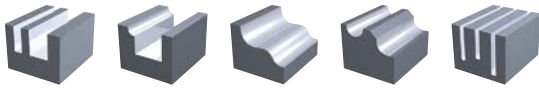
Carbide Micro Grain	C Century Coating	Rake Angle Positive
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Helix Angle	R Tol. [mm]	d Tol.
30°	+/- 0.007	0/-0.005mm

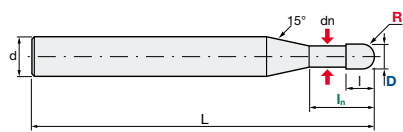
ID Code	Item Code	Z	R	D	I _n	I	dn	L	d	Type
CC086	HYPB-2002C	2	0.1	0.2	-	0.3	-	50	6	A
CC087	HYPB-2003C		0.15	0.3		0.4				
CC026	HYPB-2004C		0.2	0.4		0.5				
CC088	HYPB-2005C		0.25	0.5	1.6	0.6	0.45			
CC027	HYPB-2006C		0.3	0.6	1.7	0.7	0.55			
CC089	HYPB-2008C		0.4	0.8	2.5	1	0.75			
CC028	HYPB-2010C		0.5	1	3.3	1.3	0.95			
CC090	HYPB-2012C		0.6	1.2	3.5	1.5	1.15			
CC091	HYPB-2014C		0.7	1.4	3.8	1.8	1.35			
CC029	HYPB-2015C		0.75	1.5	4.9	1.9	1.45			
CC092	HYPB-2016C		0.8	1.6	5	2	1.55			
CC093	HYPB-2018C		0.9	1.8	5.3	2.3	1.75			
CC030	HYPB-2020C		1	2	5.5	2.5	1.95			
CC094	HYPB-2025C		1.25	2.5	6	3	2.4			
CC031	HYPB-2030C		1.5	3	8	4	2.9			
CC095	HYPB-2035C		1.75	3.5	8.5	4.5	3.4			
CC032	HYPB-2040C		2	4	10	5	3.9			
CC033	HYPB-2050C		2.5	5	11	6	4.9			
CC034	HYPB-2060C		3	6	12.5	7.5	5.9			B

HPBLN | Hyper Ball Long Neck

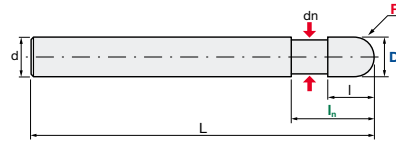
V max High Speed	▽▽ Semi-Finishing	▽▽▽ Finishing	HRC 65	Rib. Miniature	No. of Teeth 2
----------------------------	-----------------------------	-------------------------	------------------	-----------------------	--------------------------



A



B



Carbide Micro Grain	C Century Coating	Rake Angle Positive
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Helix Angle	R Tol. [mm]	d Tol.
30°	+/- 0.007	0/-0.005mm

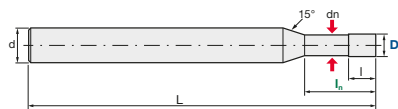
ID Code	Item Code	Z	R	D	I _n	I	dn	L	d	Type
CC138	HPBLN-2005C	2	0.25	0.5	2.5	0.6	0.45	60	6	A
CC139	HPBLN-2006C		0.3	0.6	3	0.7	0.55			
CC140	HPBLN-2008C		0.4	0.8	4	1	0.75			
CC141	HPBLN-2010C		0.5	1	5	1.3	0.95			
CC142	HPBLN-2012C		0.6	1.2	6	1.5	1.15			
CC143	HPBLN-2014C		0.7	1.4	7	1.8	1.35			
CC144	HPBLN-2015C		0.75	1.5	7.5	1.9	1.45			
CC145	HPBLN-2016C		0.8	1.6	8	2	1.55			
CC146	HPBLN-2018C		0.9	1.8	9	2.3	1.75			
CC147	HPBLN-2020C		1	2	10	2.5	1.95			
CC148	HPBLN-2025C		1.25	2.5	12.5	3	2.4	80		
CC149	HPBLN-2030C		1.5	3	15	4	2.9			
CC150	HPBLN-2035C		1.75	3.5	17.5	4.5	3.4			
CC151	HPBLN-2040C		2	4	20	5	3.9			
CC152	HPBLN-2050C		2.5	5	25	6	4.9			
CC153	HPBLN-2060C		3	6	30	7.5	5.9			
										B

HYPS | Hyper Square

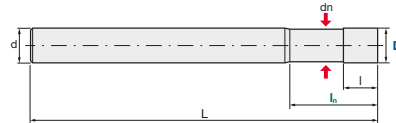
V max High Speed	▽▽▽ Finishing	HRC 65	Rib. Miniature	No. of Teeth 2
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A



B



Carbide Micro Grain	C Century Coating	Rake Angle Positive
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Helix Angle	D Tol. [mm]	d Tol.
30°	0/-0.015	0/-0.005mm

ID Code	Item Code	Z	D	I_n	I	dn	L	d	Type
CC096	HYPS-2002C	2	0.2	-	0.3	-	50	6	A
CC035	HYPS-2003C		0.3		0.4				
CC097	HYPS-2004C		0.4		0.5				
CC036	HYPS-2005C		0.5	1.6	0.6	0.45			
CC037	HYPS-2006C		0.6	1.7	0.7	0.55			
CC098	HYPS-2008C		0.8	2.5	1	0.75			
CC038	HYPS-2010C		1	3.3	1.3	0.95			
CC099	HYPS-2012C		1.2	3.5	1.5	1.15			
CC100	HYPS-2014C		1.4	3.8	1.8	1.35			
CC039	HYPS-2015C		1.5	4.9	1.9	1.45			
CC101	HYPS-2016C		1.6	5	2	1.55			
CC102	HYPS-2018C		1.8	5.3	2.3	1.75			
CC040	HYPS-2020C		2	5.5	2.5	1.95			
CC103	HYPS-2025C		2.5	6	3	2.4			
CC104	HYPS-2030C		3	8	4	2.9			
CC105	HYPS-2035C		3.5	8.5	4.5	3.4			
CC106	HYPS-2040C		4	10	5	3.9			
CC107	HYPS-2050C		5	11	6	4.9			
CC108	HYPS-2060C		6	12.5	7.5	5.9			B

HYPS-00 | Hyper Square Corner Radius

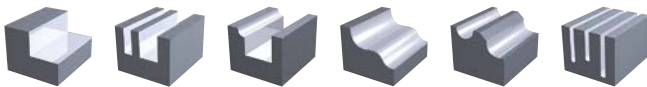
V max
High Speed

W
Finishing

HRC
65

Rib. Miniature

No. of Teeth
2



A



Carbide
Micro Grain

C
Century Coating

Rake Angle
Positive

Helix Angle	D Tol. [mm]	d Tol.
30°	0/-0.015	h5

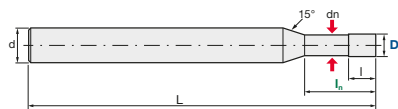
ID Code	Item Code	Z	CR	D	I _n	I	dn	L	d	Type			
CC188	HYPS-2005-01C	2	0.1	0.5	1.6	0.6	0.45	50	6	A			
CC189	HYPS-2010-02C		0.2	1	3.3	1.3	0.95						
CC190	HYPS-2015-02C			1.5	4.9	1.9	1.45						
CC191	HYPS-2020-02C		0.5	2	5.5	2.5	1.95						
CC192	HYPS-2020-05C			2.5	6	3	2.4						
CC193	HYPS-2025-02C		0.2										
CC194	HYPS-2025-05C		0.5										
CC195	HYPS-2030-02C		0.2	3	8	4	2.9						
CC196	HYPS-2030-05C		0.5										

HPSLN | Hyper Square Long Neck

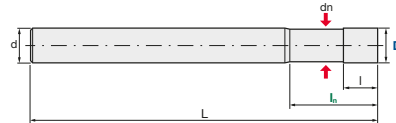
V max High Speed	VVV Finishing	HRC 65	Rib. Miniature	No. of Teeth 2
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A



B



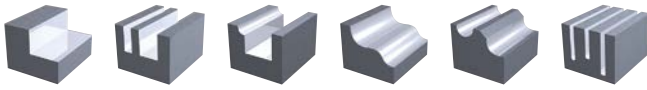
Carbide Micro Grain	C Century Coating	Rake Angle Positive
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Helix Angle	D Tol. [mm]	d Tol.
30°	0/-0.015	0/-0.005mm

ID Code	Item Code	Z	D	I _n	I	dn	L	d	Type
CC154	HPSLN-2005C	2	0.5	2.5	0.6	0.45	60	6	A
CC155	HPSLN-2006C		0.6	3	0.7	0.55			
CC156	HPSLN-2008C		0.8	4	1	0.75			
CC157	HPSLN-2010C		1	5	1.3	0.95			
CC158	HPSLN-2012C		1.2	6	1.5	1.15			
CC159	HPSLN-2014C		1.4	7	1.8	1.35			
CC160	HPSLN-2015C		1.5	7.5	1.9	1.45			
CC161	HPSLN-2016C		1.6	8	2	1.55			
CC162	HPSLN-2018C		1.8	9	2.3	1.75			
CC163	HPSLN-2020C		2	10	2.5	1.95			
CC164	HPSLN-2025C		2.5	12.5	3	2.4	80		
CC165	HPSLN-2030C		3	15	4	2.9			
CC166	HPSLN-2035C		3.5	17.5	4.5	3.4			
CC167	HPSLN-2040C		4	20	5	3.9			
CC168	HPSLN-2050C		5	25	6	4.9			
CC169	HPSLN-2060C		6	30	7.5	5.9			B

HPSLN-00 | Hyper Square Long Neck Corner Radius

V max High Speed	VVV Finishing	HRC 65	Rib. Miniature	No. of Teeth 2
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A



Carbide Micro Grain	C Century Coating	Rake Angle Neutral
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Helix Angle	D Tol. [mm]	d Tol.
30°	0/-0.015	h5

ID Code	Item Code	Z	CR	D	I _n	I	dn	L	d	Type
CC172	HPSLN-2005-01C	2	0.1	0.5	2.5	0.6	0.45	60	6	A
CC173	HPSLN-2010-02C		0.2	1	5	1.3	0.95			
CC174	HPSLN-2015-02C			1.5	7.5	1.9	1.45			
CC175	HPSLN-2020-02C		0.5	2	10	2.5	1.95			
CC176	HPSLN-2020-05C			2.5	12.5	3	2.4			
CC177	HPSLN-2025-02C		0.2							
CC178	HPSLN-2025-05C		0.5	3	15	4	2.9	80		
CC179	HPSLN-2030-02C		0.2							
CC180	HPSLN-2030-05C		0.5							

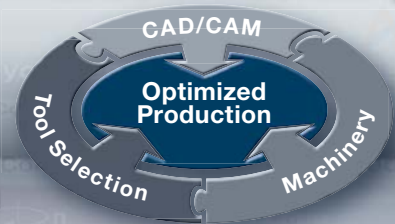


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Function Buttons
Funktions-Schaltflächen

QuickFinder Help:
Details of tools etc.
QuickFinder Hilfe:
Werkzeugdetails usw.

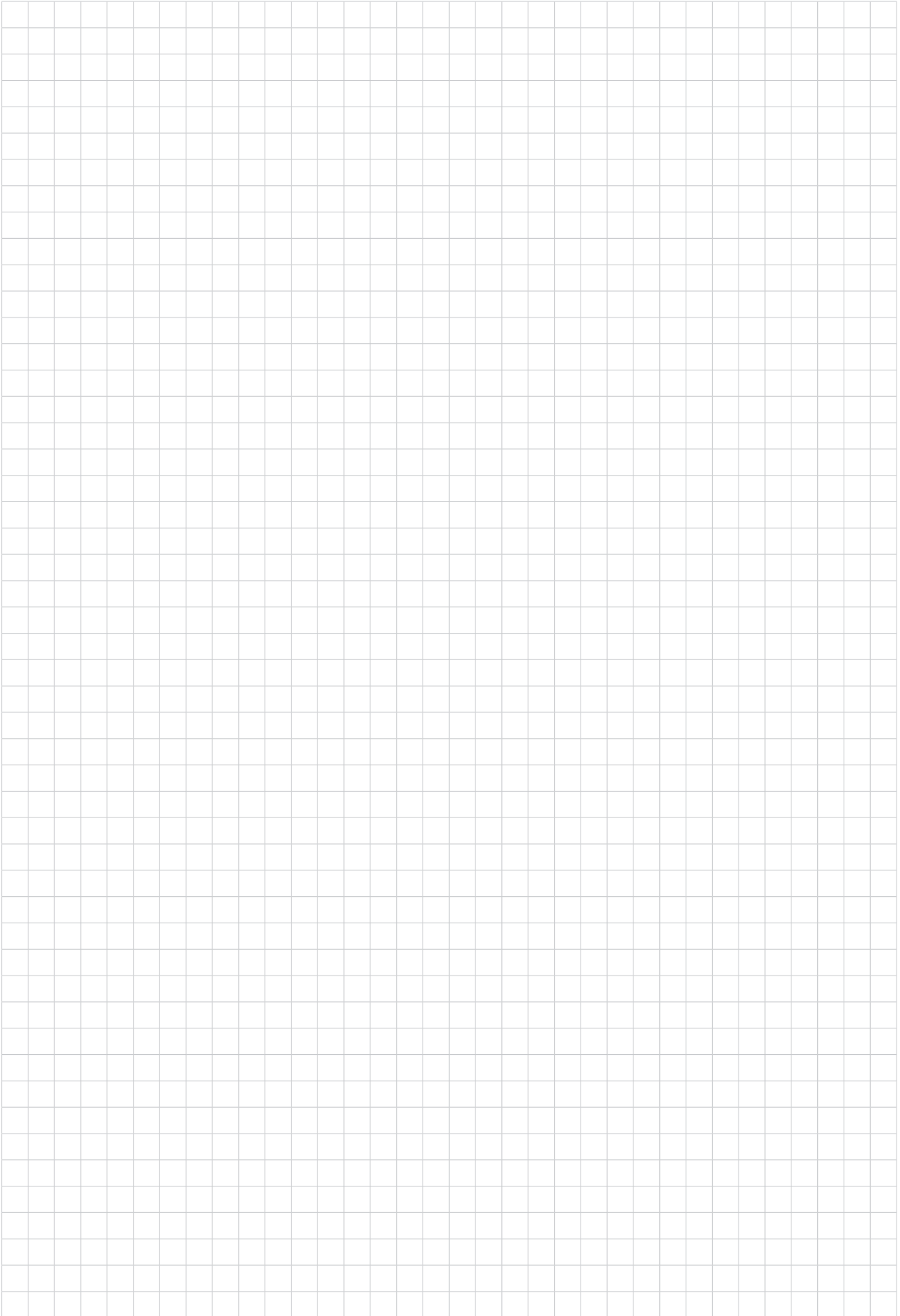
Filtering by contour shape
Gefiltert nach Bearbeitungs-Kontur

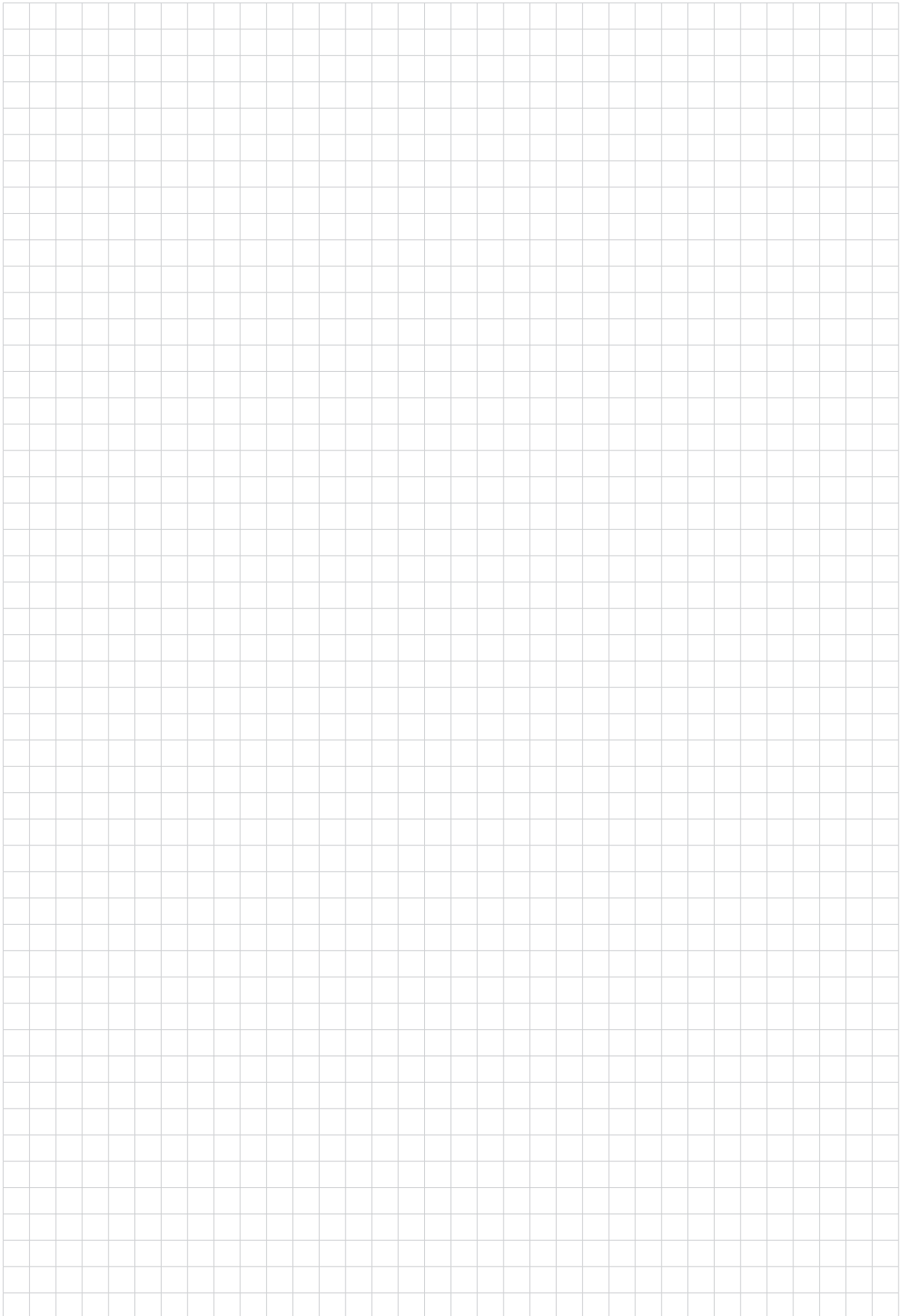
Additional search parameters
Zusätzliche Parameter-Suche

Selected product
Ausgewähltes Produkt

ID code	Item code	Z	ØD	ØH	CR	ln	s	I	Ødn	L	Ød	Grade	Inserts1	Inserts2	Inserts3
EP697	ETMP-4040-40-10	4	4	1	40	1	10	8	90	8					
EP370	ETMP-4050-12	4	5	1.2	15	1	10	70	6						
EP598	ETMP-4050-30-12	4	5	1.2	30	1	7.5	90	6						
EP599	ETMP-4050-40-12	4	5	1.2	40	1	7.5	100	8						
EP600	ETMP-4050-50-12	4	5	1.2	50	1	7.5	110	8						
EP371	ETMP-4050-15	4	6	1.5			12	90	6						
EP379	ETMLN-4050-30-15	4	6	1.5	30	1	9	5.7	75	6					
EP380	ETMLN-4050-42-15	4	6	1.5	42	1	9	5.7	90	6					
EP381	ETMLN-4050-54-15	4	6	1.5	54	1	9	5.7	100	6					
EP601	ETMP-4050-40-15	4	6	1.5	40	1	9	100	9						
EP602	ETMP-4050-55-15	4	6	1.5	55	1	9	110	8						
EP603	ETMP-4050-67-15	4	6	1.5	67	1	9	125	8						
EP372	ETMP-4050-20	4	8	2			16	100	8						
EP382	ETMLN-4050-40-20	4	8	2	40	1	12	7.6	85	8					
EP383	ETMLN-4050-55-20	4	8	2	55	1	12	7.6	100	9					
EP384	ETMLN-4080-72-20	4	8	2	72	1	12	7.6	120	8					
EP373	ETMP-4100-20	4	10	2			20		110	10					

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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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