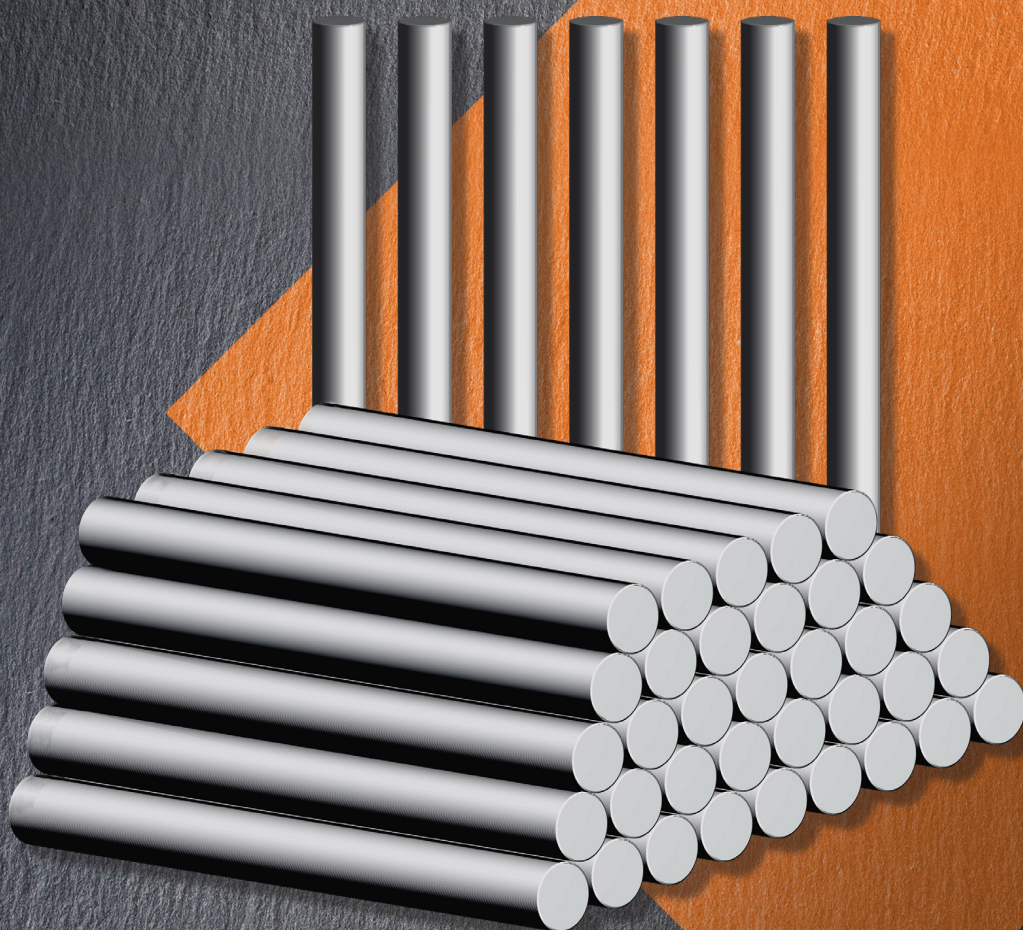




UNI-LINE

Carbide Rods for Precision Tools

UNI-LINE - PROGRAM FOR PRECISION TOOL MANUFACTURERS

PCG GmbH offers a special compact range for solid carbide round bars.

It includes essential standard dimensions for round bars L = 330 mm und fixed length with diameter „h6“ ground.

The grade of carbide used with the label UL10 is suitable for manufacturing of milling and drilling tools for universal applications.

The UNI-LINE program is limited to frequently used dimensions.

The program is characterized exceptionally through a very good price-performance ratio.

UL10 - CARBIDE GRADE FOR MULTIPLE APPLICATION

UL10 is a carbide grade with 10% Co binder and typical submicron structure.

This grade is characterized by a balanced ratio between medium hardness and good toughness.

It is suitable for machining of a large selection of materials especially in the ISO scopes of application P20-30, M20-30 and K20-30.

UL10 - GRADE SPECIFICATION

Grade	Co-Content ± 0,5 %	Density ± 0,10 g/cm ³	Hardness HV30 ±50	Hardness HRA ±0,3	TRS ±200 N/mm ²	Fracture toughness ±0,3 K _{IC}
UL10	10,0	14,40	1600	92,1	3900	10,7



UL10 - APPLICATION DATA

P		M	K		
Steel low alloy	Steel high alloy	Steel stainless	Cast iron	Nodular graphite casting	Non-ferrous metals
● ● ●	● ●	● ●	● ● ●	● ●	● ●

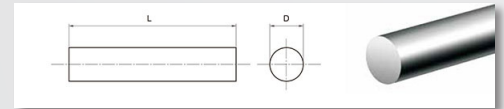
● ● ● very suitable ● ● well suitable



PROGRAM (AVAILABLE FROM STOCK)

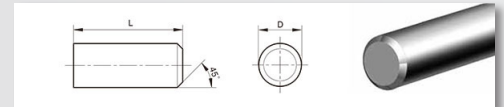
ROUND BAR Ø h6 ground, L = 330 +1,5/+0,5 mm

D h6 mm	Length (L) mm	Article No.
3,0	330	0111030330000182
4,0	330	0111040330000182
5,0	330	0111050330000182
6,0	330	0111060330000182
8,0	330	0111080330000182
10,0	330	0111100330000182
12,0	330	0111120330000182
14,0	330	0111140330000182
16,0	330	0111160330000182
18,0	330	0111180330000182
20,0	330	0111200330000182
25,0	330	0111250330000182
30,0	330	0111300330000182
32,0	330	0111320330000182



FIXED LENGTH Ø h6 ground, L = +0,8/+0,5 mm, one side chamfered

D h6 mm	Length (L) mm	Article No.
3,0	39,5	0113030039510182
4,0	50	0113040050010182
5,0	50	0113050050010182
6,0	50	0113060050010182
6,0	54	0113060054010182
6,0	57	0113060057010182
8,0	60	0113080060010182
8,0	63	0113080063010182
10,0	66	0113100066010182
10,0	72	0113100072010182
12,0	73	0113120073010182
12,0	83	0113120083010182
14,0	75	0113140075010182
14,0	83	0113140083010182
16,0	82	0113160082010182
16,0	92	0113160092010182
18,0	84	0113180084010182
18,0	92	0113180092010182
20,0	92	0113200092010182
20,0	104	0113200104010182
25,0	150	0113250150010182



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Qualitätsmanagementsystem ISO 9001

- Kundenorientierung
- Kundenzufriedenheit
- Fortlaufende Verbesserung
- System- bzw. Prozesswirksamkeit

ID 15 100 1910634

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