

VHM K05-K20	35°	HSC
AlTiN Coating		
HRc 65		

Ball nose end mills, long shank
For HSC of tool steels, hard cast materials, tempered and hardened steels 45 - 65 HRc

Kugelkopffräser, langer schaft
Für die HSC von Werkzeugstählen, harten Gusswerkstoffen, gehärtetem und vergütetem Stählen mit Härten von 45 - 65 HRc

Example: Order code HBL5 235 010-02104

d-Code	d x L x D	H
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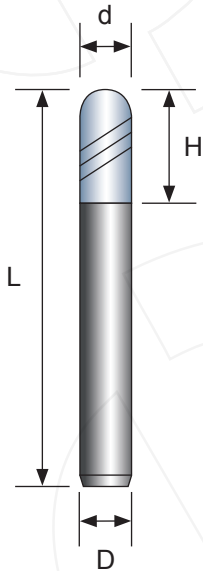


Hard-cut

P	HRc < 24	
	HRc 24 - 35	○
	HRc > 35	◎
H	HRc 45 - 55	◎
	HRc 56 - 60	◎
	HRc > 60	○
M	Stainless steel	
K	Cast iron	○
N	Copper alloy	
S	Titanium alloy	
	High-temperature alloy	

010-02104	R0.5 x L 75 x C 4	2.0	◇	
015-03104	R0.75 x L 75 x C 4	3.0	◇	
020-04106	R1.0 x L 75 x C 6	4.0	●	
020-04306	R1.0 x L100 x C 6	4.0	◇	
030-06106	R1.5 x L 75 x C 6	6.0	●	
030-06306	R1.5 x L100 x C 6	6.0	◇	
040-08104	R2.0 x L 75 x C 4	8.0	●	
040-08306	R2.0 x L100 x C 6	8.0	●	
050-10106	R2.5 x L 75 x C 6	10.0	●	
050-10306	R2.5 x L100 x C 6	10.0	●	
060-12106	R3.0 x L 75 x C 6	12.0	●	●
060-12306	R3.0 x L100 x C 6	12.0	●	●
060-12506	R3.0 x L150 x C 6	12.0	◇	◇
080-16108	R4.0 x L 75 x C 8	16.0	●	◇
080-16308	R4.0 x L100 x C 8	16.0	●	●
080-16508	R4.0 x L150 x C 8	16.0	◇	◇
100-20310	R5.0 x L100 x C10	20.0	●	●
100-20510	R5.0 x L150 x C10	20.0	◇	◇
120-24312	R6.0 x L100 x C12	24.0	●	●
120-24512	R6.0 x L150 x C12	24.0	◇	◇

Cutting data, P43 - P44



Tolerance / Toleranz

Range	Diameter
1 ≤ d < 8	0 / -0.02
8 ≤ d < 18	0 / -0.03