UP100-2B-BALL NOSE

ZANHO Cutting Tools



Feature

- **Type:** 2-Flute Ball Nose (Flat Head) for 3D profiling and contouring.

- **Series:** UP100 Universal Type for high versatility and cost-effectiveness.
- **Coating: AlCrN Coating** for enhanced thermal stability and wear resistance.
- **Helix Angle: 35° Helix** optimized for stable cutting and chip removal.
- **Hardness:** Ideal for materials **up to 45 HRC** (Carbon Steel, Alloy Steel, Cast Iron).
- **Range:** Comprehensive precision sizes from R0.5 to R10.0

Descriptions

ZANHO UP100 Series Features

- 2-flute R-type milling design for profile and curved-surface machining.
- UP100-2B and UP100-2BH specifications cover standard and extended overall lengths.
- Multiple R sizes and shank diameters are available for different machining requirements.
- The specification range includes overall lengths of 50 mm, 60 mm, 75 mm, 100 mm, 150 mm and 200 mm as shown in the supplied chart.
- The supplied application chart indicates strong suitability for carbon steel and alloy steel, and suitability for cast iron.

UP100-2B Standard-Length Specifications

Order Number	Specification	D (mm)	L1 (mm)	D1 (r
UP100-2B-01002	R0.5*D4*50L*2F	1	2	4
UP100-2B-01503	R0.75*D4*50L*2F	1.5	3	4
UP100-2B-02004	R1*D4*50L*2F	2	4	4
UP100-2B-02505	R1.25*D4*50L*4F	2.5	5	4
UP100-2B-33006	R1.5*D3*50L*2F	3	6	3
UP100-2B-03006	R1.5*D4*50L*2F	3	6	4

Order Number	Specification	D (mm)	L1 (mm)	D1 (r
UP100-2B-03507	R1.75*D4*50L*2F	3.5	7	4
UP100-2B-04008	R2*D4*50L*2F	4	8	4
UP100-2B-55010	R2.5*D5*50L*2F	5	10	5
UP100-2B-05010	R2.5*D6*50L*2F	5	10	6
UP100-2B-06012	R3*D6*50L*2F	6	12	6
UP100-2B-08016	R4*D8*60L*2F	8	16	8
UP100-2B-10020	R5*D10*75L*2F	10	20	10
UP100-2B-12024	R6*D12*75L*2F	12	24	12
UP100-2B-14028	R7*D14*100L*2F	14	28	14
UP100-2B-16032	R8*D16*100L*2F	16	32	16
UP100-2B-18036	R9*D18*100L*2F	18	36	18
UP100-2B-20040	R10*D20*100L*2F	20	40	20

UP100-2BH Extended-Length Specifications

Order Number	Specification	D (mm)	L1 (mm)	D1 (
UP100-2BH-01002	R0.5*D4*75L*2F	1	2	4
UP100-2BH-01503	R0.75*D4*75L*2F	1.5	3	4
UP100-2BH-02004	R1*D4*75L*2F	2	4	4
UP100-2BH-02505	R1.25*D4*75L*2F	2.5	5	4
UP100-2BH-03006	R1.5*D4*75L*2F	3	6	4

Order Number	Specification	D (mm)	L1 (mm)	D1 (
UP100-2BH-33006	R1.5*D3*75L*2F	3	6	
UP100-2BH-33006A	R1.5*D3*100L*2F	3	6	
UP100-2BH-04008	R2*D4*75L*2F	4	8	
UP100-2BH-04008A	R2*D4*100L*2F	4	8	
UP100-2BH-55010	R2.5*D5*75L*2F	5	10	
UP100-2BH-06012	R3*D6*75L*2F	6	12	
UP100-2BH-55010A	R2.5*D5*100L*2F	5	10	
UP100-2BH-06012A	R3*D6*100L*2F	6	12	
UP100-2BH-06012B	R3*D6*150L*2F	6	12	
UP100-2BH-08016	R4*D8*75L*2F	8	16	
UP100-2BH-08016A	R4*D8*100L*2F	8	16	
UP100-2BH-08016B	R4*D8*150L*2F	8	16	
UP100-2BH-10020	R5*D10*100L*2F	10	20	1
UP100-2BH-10020A	R5*D10*150L*2F	10	20	1
UP100-2BH-12024	R6*D12*100L*2F	12	24	1
UP100-2BH-12024A	R6*D12*150L*2F	12	24	1
UP100-2BH-14028	R7*D14*150L*2F	14	28	1
UP100-2BH-16032	R8*D16*150L*2F	16	32	1
UP100-2BH-18036	R9*D18*150L*2F	18	36	1

Order Number	Specification	D (mm)	L1 (mm)	D1 (
UP100-2BH-20040	R10*D20*150L*2F	20	40	2
UP100-2BH-08016C	R4*D8*200L*2F	8	16	
UP100-2BH-10020B	R5*D10*200L*2F	10	20	1
UP100-2BH-12024B	R6*D12*200L*2F	12	24	1
UP100-2BH-16032A	R8*D16*200L*2F	16	32	1
UP100-2BH-20040A	R10*D20*200L*2F	20	40	2

Workpiece Material Applicability

Material Group	Workpiece Material	Ch
P	Carbon steel, < HRC35	V
M	Alloy steel, < HRC48	V
K	Cast iron	
N	Aluminum alloy, copper alloy, graphite / composite material	Not indica
S	Heat-resistant alloy	Not indica
H	Hardened steel, HRC48-55 / HRC55-62	Not indica

ZANHO UP100 Series R-Type Milling Solutions

Please select the appropriate order number according to the required R size, shank diameter and overall length.