

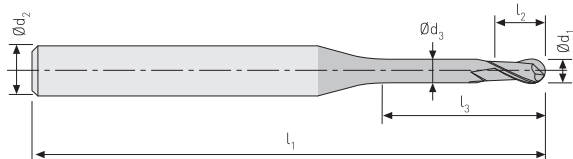
# MCR402

## Solid Carbide Ball Nose End Mills MicroCut

### Application Range

# HELIX TOOLS

- Unalloyed Steels
- Machining Steels
- Low Alloy Steels
- Stainless Steels
- Heat Resistant Materials
- Titanium and Titanium Alloys
- Cast Iron
- Hardened Materials
- Aluminium Alloys
- Copper and Copper Alloys
- Plastics
- Graphite



Tolerances		
d <sub>1</sub>	0.5	0/-0.006
d <sub>1</sub>	0.6	0/-0.010
R	0.25	±0.003
R	0.3-3.0	±0.005



Order Code	d <sub>1</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>3</sub> mm	d <sub>3</sub> mm	d <sub>2</sub> mm h6	R	z
MCR402-0050-L01 ATN	0.5	50	0.35	1	0.47	4	0.25	2
MCR402-0050-L02 ATN	0.5	50	0.35	2	0.47	4	0.25	2
MCR402-0050-L03 ATN	0.5	50	0.35	3	0.47	4	0.25	2
MCR402-0050-L04 ATN	0.5	50	0.35	4	0.47	4	0.25	2
MCR402-0050-L05 ATN	0.5	50	0.35	5	0.47	4	0.25	2
MCR402-0050-L06 ATN	0.5	50	0.35	6	0.47	4	0.25	2
MCR402-0060-L02 ATN	0.6	50	0.40	2	0.57	4	0.30	2
MCR402-0060-L04 ATN	0.6	50	0.40	4	0.57	4	0.30	2
MCR402-0060-L06 ATN	0.6	50	0.40	6	0.57	4	0.30	2
MCR402-0060-L08 ATN	0.6	50	0.40	8	0.57	4	0.30	2
MCR402-0060-L10 ATN	0.6	50	0.40	10	0.57	4	0.30	2
MCR402-0080-L02 ATN	0.8	50	0.50	2	0.77	4	0.40	2
MCR402-0080-L04 ATN	0.8	50	0.50	4	0.77	4	0.40	2
MCR402-0080-L06 ATN	0.8	50	0.50	6	0.77	4	0.40	2
MCR402-0080-L08 ATN	0.8	50	0.50	8	0.77	4	0.40	2
MCR402-0080-L10 ATN	0.8	50	0.50	10	0.77	4	0.40	2
MCR402-0100-L02 ATN	1.0	50	0.80	2	0.96	4	0.50	2
MCR402-0100-L03 ATN	1.0	50	0.80	3	0.96	4	0.50	2
MCR402-0100-L04 ATN	1.0	50	0.80	4	0.96	4	0.50	2
MCR402-0100-L07 ATN	1.0	50	0.80	7	0.96	4	0.50	2
MCR402-0100-L08 ATN	1.0	50	0.80	8	0.96	4	0.50	2
MCR402-0100-L10 ATN	1.0	50	0.80	10	0.96	4	0.50	2
MCR402-0100-L12 ATN	1.0	55	0.80	12	0.96	4	0.50	2
MCR402-0100-L14 ATN	1.0	55	0.80	14	0.96	4	0.50	2
MCR402-0100-L16 ATN	1.0	55	0.80	16	0.96	4	0.50	2
MCR402-0100-L18 ATN	1.0	60	0.80	18	0.96	4	0.50	2
MCR402-0100-L20 ATN	1.0	60	0.80	20	0.96	4	0.50	2
MCR402-0120-L08 ATN	1.2	50	1.10	8	1.15	4	0.60	2
MCR402-0120-L12 ATN	1.2	50	1.10	12	1.15	4	0.60	2
MCR402-0140-L08 ATN	1.4	50	1.30	8	1.34	4	0.70	2
MCR402-0140-L12 ATN	1.4	55	1.30	12	1.34	4	0.70	2
MCR402-0140-L16 ATN	1.4	55	1.30	16	1.34	4	0.70	2
MCR402-0150-L04 ATN	1.5	50	1.35	4	1.44	4	0.75	2
MCR402-0150-L08 ATN	1.5	50	1.35	8	1.44	4	0.75	2
MCR402-0150-L12 ATN	1.5	55	1.35	12	1.44	4	0.75	2
MCR402-0150-L16 ATN	1.5	55	1.35	16	1.44	4	0.75	2
MCR402-0150-L20 ATN	1.5	60	1.35	20	1.44	4	0.75	2
MCR402-0160-L08 ATN	1.6	50	1.40	8	1.54	4	0.80	2
MCR402-0160-L12 ATN	1.6	55	1.40	12	1.54	4	0.80	2
MCR402-0160-L16 ATN	1.6	55	1.40	16	1.54	4	0.80	2
MCR402-0160-L20 ATN	1.6	60	1.40	20	1.54	4	0.80	2
MCR402-0180-L08 ATN	1.8	50	1.60	8	1.73	4	0.90	2
MCR402-0180-L12 ATN	1.8	55	1.60	12	1.73	4	0.90	2
MCR402-0180-L16 ATN	1.8	55	1.60	16	1.73	4	0.90	2



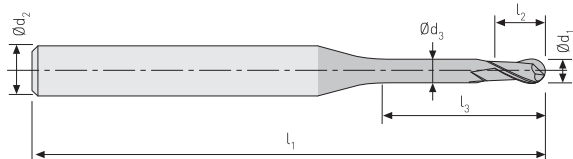
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Order Code	d <sub>1</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>3</sub> mm	d <sub>3</sub> mm	d <sub>2</sub> mm h6	R	z
MCR402-0180-L20 ATN	1.8	60	1.60	20	1.73	4	0.90	2
MCR402-0200-L03 ATN	2.0	50	1.70	3	1.92	4	1.00	2
MCR402-0200-L04 ATN	2.0	50	1.70	4	1.92	4	1.00	2
MCR402-0200-L06 ATN	2.0	50	1.70	6	1.92	4	1.00	2
MCR402-0200-L08 ATN	2.0	50	1.70	8	1.92	4	1.00	2
MCR402-0200-L10 ATN	2.0	50	1.70	10	1.92	4	1.00	2
MCR402-0200-L12 ATN	2.0	55	1.70	12	1.92	4	1.00	2
MCR402-0200-L16 ATN	2.0	55	1.70	16	1.92	4	1.00	2
MCR402-0200-L20 ATN	2.0	60	1.70	20	1.92	4	1.00	2
MCR402-0200-L25 ATN	2.0	65	1.70	25	1.92	4	1.00	2
MCR402-0200-L30 ATN	2.0	70	1.70	30	1.92	4	1.00	2
MCR402-0200-L35 ATN	2.0	75	1.70	35	1.92	4	1.00	2
MCR402-0200-L40 ATN	2.0	80	1.70	40	1.92	4	1.00	2
MCR402-0300-L08 ATN	3.0	55	2.50	8	2.88	6	1.50	2
MCR402-0300-L10 ATN	3.0	55	2.50	10	2.88	6	1.50	2
MCR402-0300-L16 ATN	3.0	60	2.50	16	2.88	6	1.50	2
MCR402-0300-L25 ATN	3.0	70	2.50	25	2.88	6	1.50	2
MCR402-0300-L30 ATN	3.0	75	2.50	30	2.88	6	1.50	2
MCR402-0300-L35 ATN	3.0	80	2.50	35	2.88	6	1.50	2
MCR402-0400-L10 ATN	4.0	55	3.00	10	3.90	6	2.00	2
MCR402-0400-L16 ATN	4.0	60	3.00	16	3.90	6	2.00	2
MCR402-0400-L25 ATN	4.0	70	3.00	25	3.90	6	2.00	2
MCR402-0400-L35 ATN	4.0	80	3.00	35	3.90	6	2.00	2
MCR402-0400-L40 ATN	4.0	80	3.00	40	3.90	6	2.00	2
MCR402-0400-L50 ATN	4.0	100	3.00	50	3.90	6	2.00	2
MCR402-0500-L25 ATN	5.0	70	3.50	25	4.90	6	2.50	2
MCR402-0500-L40 ATN	5.0	80	3.50	40	4.90	6	2.50	2
MCR402-0600-L30 ATN	6.0	75	6.00	30	5.90	6	3.00	2
MCR402-0600-L50 ATN	6.0	100	6.00	50	5.90	6	3.00	2