

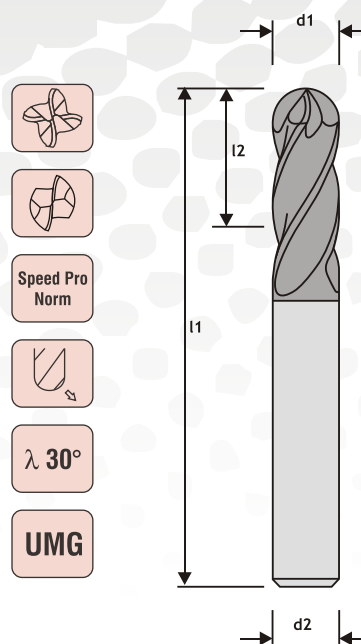
## BM Star (65 HRC) Ball Nose End Mills - Regular Series

**Type :** Works standard regular series, right-hand cutting, straight shank, CNC radius on face cutting lips  $R = 1/2 d \pm 0,02$

**Design Features :** 2 fluted / 4 fluted centre cutting, helix angle  $30^\circ$ , CNC grinding

**Application :** High performance end mills for slot milling and form copying. For milling of cast iron, malleable cast iron, steel, steel casting, heat-resisting steel and plastics in design and profile manufacturing.

▲ For Speed & Feed chart refer page 39



### BM Star (65 HRC) Ball Nose End Mills Regular Series

Article No.		Dimension (mm)				Uncoated	TiAlN Coated
2 Flute	4 Flute	$\varnothing d1$ h10	$\varnothing d2$ h6	l2	l1		
SH-SBM2010	SH-SBM4010	1	3	4	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2015	SH-SBM4015	1.5	3	5	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2020	SH-SBM4020	2	3	6	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2025	SH-SBM4025	2.5	3	9	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2030	SH-SBM4030	3	3	12	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2035	SH-SBM4035	3.5	4	12	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2040	SH-SBM4040	4	4	14	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2050	SH-SBM4050	5	5	16	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2060	SH-SBM4060	6	6	19	57	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2080	SH-SBM4080	8	8	20	63	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2100	SH-SBM4100	10	10	22	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2120	SH-SBM4120	12	12	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2140	SH-SBM4140	14	14	32	89	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2160	SH-SBM4160	16	16	32	89	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2180	SH-SBM4180	18	18	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2200	SH-SBM4200	20	20	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SBM2250	H-SBM4250	25	25	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>

■ Available ex stock / subject to prior sale

□ Delivery time on request - mention  if uncoated in the article no. eg. **SH-SBM-U-4010**

**UMG** Ultra Micron Grade

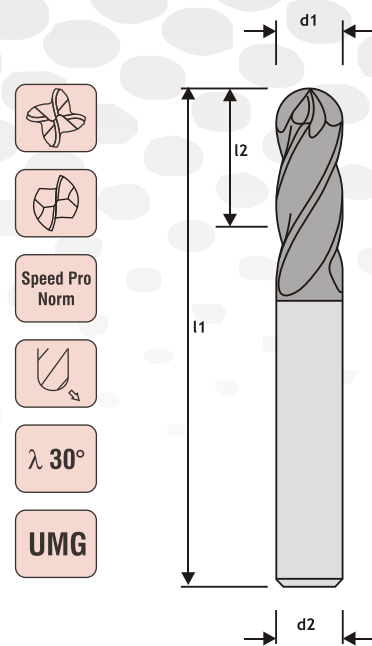
## BM Star (65 HRC) Ball Nose End Mills - Extra Long Series

**Type :** Works standard extra long series, right hand cutting, straight shank, CNC radius on face cutting lips  $R = 1/2 d \pm 0,02$

**Design Features :** 2 fluted / 4 fluted centre cutting, helix angle  $30^\circ$ , CNC grinding

**Application :** High performance end mills for slot milling and form copying. for milling of cast iron, malleable cast iron, steel, steel casting, heat-resisting steel and plastics in design and profile manufacturing.

▲ For Speed & Feed chart refer page 39



### BM Star (65 HRC) Ball Nose End Mills Extra Long Series

Article No.		Dimension (mm)					
2 Flute	4 Flute	$\varnothing d1$ h10	$\varnothing d2$ h6	l2	l1	Uncoated	TiAlN Coated
SH-SBM2030L	SH-SBM4030L	3	3	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2040L	SH-SBM4040L	4	4	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2050L	SH-SBM4050L	5	5	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2060L	SH-SBM4060L	6	6	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2080L	SH-SBM4080L	8	8	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2100L	SH-SBM4100L	10	10	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2120L	SH-SBM4120L	12	12	50	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2140L	SH-SBM4140L	14	14	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2160L	SH-SBM4160L	16	16	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2180L	SH-SBM4180L	18	18	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2200L	SH-SBM4200L	20	20	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2250L	SH-SBM4250L	25	25	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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**UMG** Ultra Micron Grade

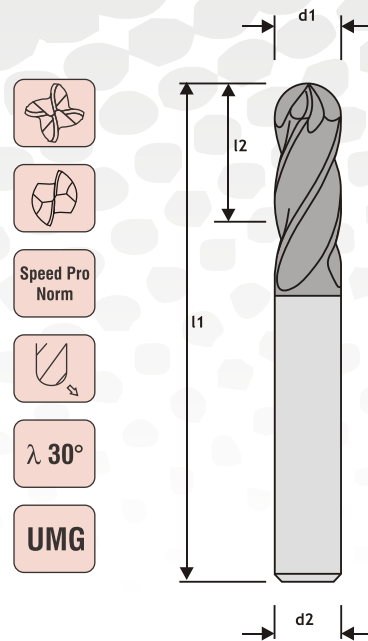
## BM Star (65 HRC) Ball Nose End Mills - Deep Reach + XL Series

**Type :** Works standard deep reach + XL series, right-hand cutting, straight shank, CNC radius on face cutting lips  $R=1/2 d \pm 0,02$

**Design Features :** 2 fluted / 4 fluted centre cutting, helix angle  $30^\circ$ , CNC grinding

**Application :** High performance end mills for slot milling and form copying. For milling of cast iron, malleable cast iron, steel, steel casting, heat-resisting steel and plastics in design and profile manufacturing.

▲ For Speed & Feed chart refer page 39



### BM Star (65 HRC) Ball Nose End Mills Deep Reach + XL Series

Article No.		Dimension (mm)					
2 Flute	4 Flute	$\varnothing d1$ h10	$\varnothing d2$ h6	l2	l1	Uncoated	TiAlN Coated
SH-SBM2030DR	SH-SBM4030DR	3	3	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2040DR	SH-SBM4040DR	4	4	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2050DR	SH-SBM4050DR	5	5	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2060DR	SH-SBM4060DR	6	6	15	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2060DRXL	SH-SBM4060DRXL	6	6	15	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2080DR	SH-SBM4080DR	8	8	25	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2080DRXL	SH-SBM4080DRXL	8	8	25	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2100DR	SH-SBM4100DR	10	10	25	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2100DRXL	SH-SBM4100DRXL	10	10	25	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2120DR	SH-SBM4120DR	12	12	25	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2120DRXL	SH-SBM4120DRXL	12	12	25	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2140DR	SH-SBM4140DR	14	14	32	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2160DR	SH-SBM4160DR	16	16	32	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2180DR	SH-SBM4180DR	18	18	40	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2200DR	SH-SBM4200DR	20	20	40	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SH-SBM2250DR	SH-SBM4250DR	25	25	40	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Available ex stock / subject to prior sale

Delivery time on request - mention  if uncoated in the article no. eg. **SH-SBM-U-4060DR**

**UMG** Ultra Micron Grade