

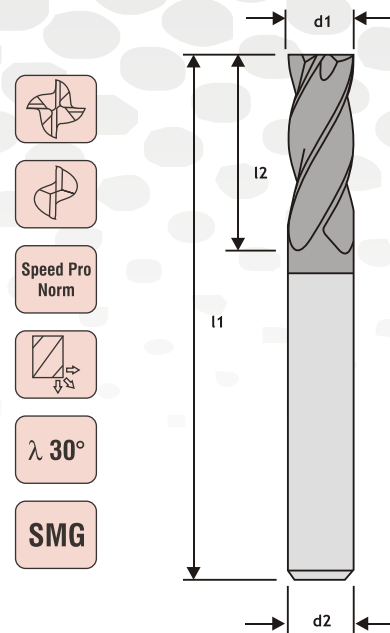
FM Star (45 HRC) Flat End Mills - Regular Series

Type : N, right-hand cutting, straight shank according to DIN 6535 HA

Design Features : 2 fluted / 4 fluted centre cutting, helix angle 30°, CNC grinding

Application : Standard end mills for periphery and form milling. For milling of steel and steel castings (< 900 N/mm²), as well as non-ferrous metals and plastics.

▲ For Speed & Feed chart refer page 38



FM Star (45 HRC) Flat End Mills - Regular Series

Article No.		Dimension (mm)				Uncoated	TiAlN Coated
2 Flute	4 Flute	$\varnothing d_1$ h10	$\varnothing d_2$ h6	l2	l1		
H-SEM2010	H-SEM4010	1	3	4	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2015	H-SEM4015	1.5	3	5	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2020	H-SEM4020	2	3	6	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2025	H-SEM4025	2.5	3	9	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2030	H-SEM4030	3	3	12	38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2035	H-SEM4035	3.5	4	12	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2040	H-SEM4040	4	4	14	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2050	H-SEM4050	5	5	16	50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2060	H-SEM4060	6	6	19	57	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2080	H-SEM4080	8	8	20	63	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2100	H-SEM4100	10	10	22	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2120	H-SEM4120	12	12	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2140	H-SEM4140	14	14	32	89	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2160	H-SEM4160	16	16	32	89	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2180	H-SEM4180	18	18	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2200	H-SEM4200	20	20	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2250	H-SEM4250	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. **H-SEM-U-4010**

SMG Sub Micron Grade

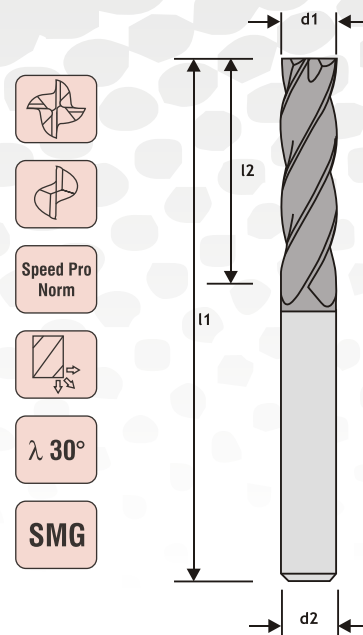
FM Star (45 HRC) Flat End Mills - Extra Long Series

Type : N, right-hand cutting, straight shank according to DIN 6535 HA, extra long

Design Features : 2 fluted / 4 fluted centre cutting, helix angle 30°, CNC grinding

Application : Standard end mills for periphery and form milling. For milling of steel, steel castings, titanium and titanium alloy, non-ferrous metals and plastics.

▲ For Speed & Feed chart refer page 38



FM Star (45 HRC) Flat End Mills Extra Long Series

Article No.		Dimension (mm)					
2 Flute	4 Flute	Ø d1 h10	Ø d2 h6	l2	l1	Uncoated	TiAlN Coated
H-SEM2030L	H-SEM4030L	3	3	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2040L	H-SEM4040L	4	4	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2050L	H-SEM4050L	5	5	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2060L	H-SEM4060L	6	6	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2080L	H-SEM4080L	8	8	25	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2100L	H-SEM4100L	10	10	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2120L	H-SEM4120L	12	12	50	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2140L	H-SEM4140L	14	14	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2160L	H-SEM4160L	16	16	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2180L	H-SEM4180L	18	18	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2200L	H-SEM4200L	20	20	75	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2250L	H-SEM4250L	25	25	75	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. **H-SEM-U-4030L**

SMG Sub Micron Grade

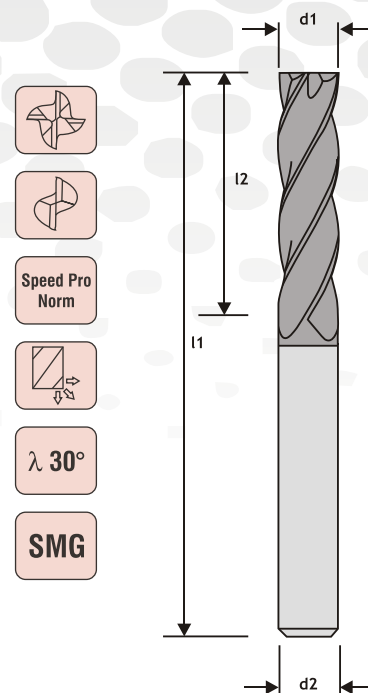
FM Star (45 HRC) Flat End Mills - Deep Reach + XL Series

Type : N, right-hand cutting, straight shank according to DIN 6535 HA, Deep Reach

Design Features : 2 fluted / 4 fluted centre cutting, helix angle 30°, CNC grinding

Application : Standard end mills for periphery and form milling. For milling of steel, steel castings, titanium and titanium alloy, non-ferrous metals and plastics.

▲ For Speed & Feed chart refer page 38



FM Star (45 HRC) Flat End Mills Deep Reach + XL Series

Article No.		Dimension (mm)				Uncoated	TiAlN Coated
2 Flute	4 Flute	Ø d1 h10	Ø d2 h6	l2	l1		
H-SEM2030DR	H-SEM4030DR	3	3	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2040DR	H-SEM4040DR	4	4	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2050DR	H-SEM4050DR	5	5	12	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2060DR	H-SEM4060DR	6	6	25	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2060DRXL	H-SEM4060DRXL	6	6	25	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2080DR	H-SEM4080DR	8	8	25	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2080DRXL	H-SEM4080DRXL	8	8	25	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2100DR	H-SEM4100DR	10	10	38	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2120DR	H-SEM4120DR	12	12	38	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2120DRXL	H-SEM4120DRXL	12	12	38	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2140DR	H-SEM4140DR	14	14	38	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2160DR	H-SEM4160DR	16	16	38	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2180DR	H-SEM4180DR	18	18	40	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2200DR	H-SEM4200DR	20	20	40	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H-SEM2250DR	H-SEM4250DR	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. **H-SEM-U-4030DR**

SMG Sub Micron Grade