

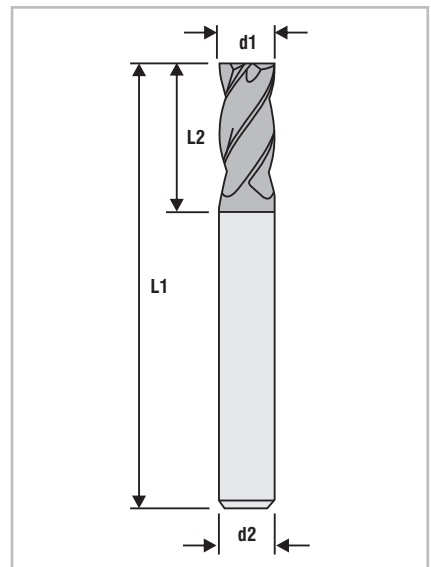
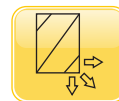
**XF Star 4 ( $\leq 60$  HRC) LS**  
Flat End Mills - Long Shank Series



**X**  
**60**  
Series

4 Flute	Dimension (mm)					
	$\varnothing d1$	$\varnothing d2$ h10	L2 h6	L1	AT-coated	
XF3-SEM 4030 LS 75	3	3	9	75	■	
XF4-SEM 4030 LS 75	3	4	9	75	■	
XF4-SEM 4040 LS 75	4	4	11	75	■	
XF4-SEM 4040 LS 100	4	4	11	100	■	
XF6-SEM 4030 LS 75	3	6	9	75	■	
XF6-SEM 4040 LS 75	4	6	11	75	■	
XF6-SEM 4050 LS 75	5	6	13	75	■	
XF6-SEM 4060 LS 75	6	6	16	75	■	
XF6-SEM 4040 LS 100	4	6	11	100	■	
XF6-SEM 4060 LS 100	6	6	16	100	■	
XF8-SEM 4080 LS 75	8	8	20	75	■	
XF8-SEM 4080 LS 100	8	8	20	100	■	
XF10-SEM 4100 LS 100	10	10	25	100	■	
XF10-SEM 4100 LS 150	10	10	25	150	■	
XF12-SEM 4120 LS 100	12	12	30	100	■	
XF12-SEM 4120 LS 150	12	12	30	150	■	
XF16-SEM 4160 LS 150	16	16	40	150	■	
XF20-SEM 4200 LS 150	20	20	45	150	■	


Steel	$R_m < 850$	■
	$R_m 850-1300$	■
	$R_m 1300-1500$	■
M	Stainless Steel	□
K	Cast Iron	■
N	Copper	□
S	Titanium	■
Hardened Steel	HRC 48-55	■
	HRC 56-60	■
	HRC > 65	



**FLAT**  
End Mills

■ Available EX stock / subject to prior sale  
**SMG** - Super-Fine Micron Grade  
**LS** - Long Shank for deep reach moulds and dies

Tolerance	
Diameter	Range
$3 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03
$18 \leq d$	0 / -0.04