

TX55 Series

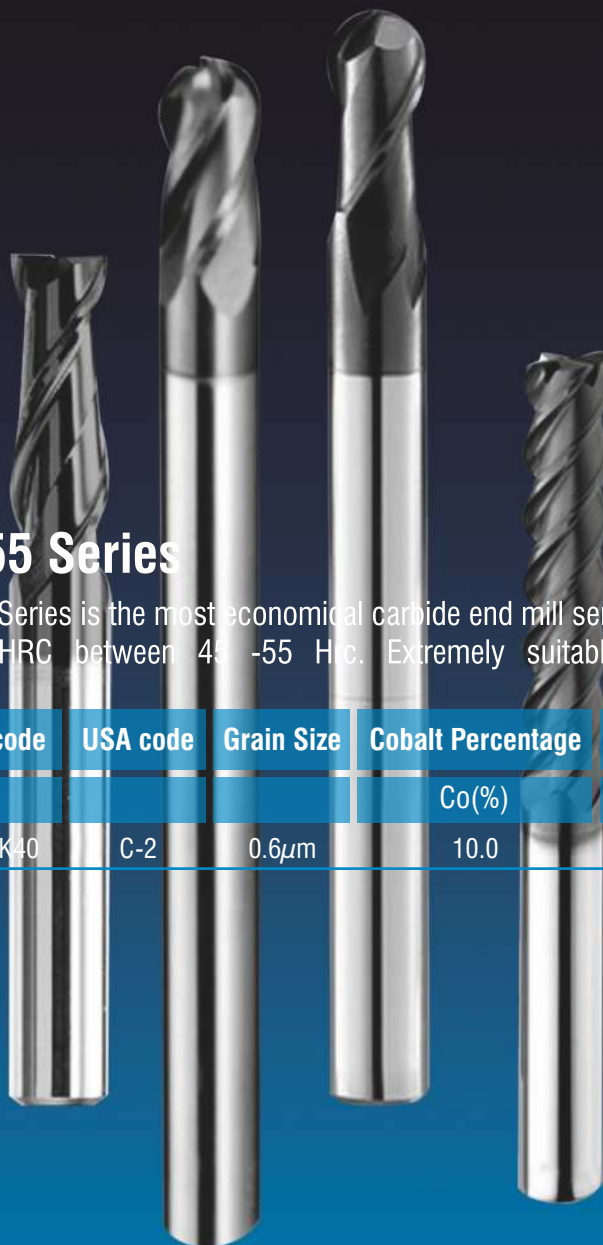
Solid Carbide Precision Tool



TX55 Series

TX55 Series is the most economical carbide end mill series used for machining of material with HRC between 45 -55 Hrc. Extremely suitable for Die & Mold Application.

ISO code	USA code	Grain Size	Cobalt Percentage		Density	Hardness		
				Co(%)		g/cm ³	HV10	HV30
K20-K40	C-2	0.6 μ m		10.0	14.35	1630	1580	92.1



TX Star 4 / 2 (≤ 55 HRC)
Flat End Mills - Regular Series

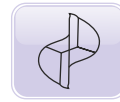
Article No.		Dimension (mm)					AT-coated
4 Flute	2 Flute	\varnothing d1	\varnothing d2 h10	L2 h6	L1		
TX4-SEM 4010	TX4-SEM 2010	1	4	3	50	■	
TX4-SEM 4015	TX4-SEM 2015	1.5	4	4	50	■	
TX4-SEM 4020	TX4-SEM 2020	2	4	5	50	■	
TX4-SEM 4025	TX4-SEM 2025	2.5	4	7	50	■	
TX4-SEM 4030	TX4-SEM 2030	3	4	9	50	■	
TX3-SEM 4030	TX3-SEM 2030	3	3	9	50	■	
TX4-SEM 4040	TX4-SEM 2040	4	4	11	50	■	
TX6-SEM 4030	TX6-SEM 2030	3	6	9	50	■	
TX6-SEM 4040	TX6-SEM 2040	4	6	11	50	■	
TX6-SEM 4045	TX6-SEM 2045	4.5	6	11	50	■	
TX6-SEM 4050	TX6-SEM 2050	5	6	13	50	■	
TX6-SEM 4060	TX6-SEM 2060	6	6	16	50	■	
TX8-SEM 4070	TX8-SEM 2070	7	8	18	60	■	
TX8-SEM 4080	TX8-SEM 2080	8	8	20	60	■	
TX10-SEM 4090	TX10-SEM 2090	9	10	23	75	■	
TX10-SEM 4100	TX10-SEM 2100	10	10	25	75	■	
TX10-SEM 4100 (FL30)	TX10-SEM 2100 (FL30)	10	10	30	75	■	
TX12-SEM 4120	TX12-SEM 2120	12	12	30	75	■	
TX16-SEM 4130	TX16-SEM 2130	13	16	35	100	■	
TX16-SEM 4140	TX16-SEM 2140	14	16	35	100	■	
TX16-SEM 4150	TX16-SEM 2150	15	16	38	100	■	
TX16-SEM 4160	TX16-SEM 2160	16	16	40	100	■	
TX20-SEM 4180	TX20-SEM 2180	18	20	40	100	■	
TX20-SEM 4200	TX20-SEM 2200	20	20	45	100	■	

■ Available EX stock / subject to prior sale
MG - Micron Grade

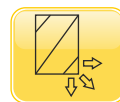


TX
55
Series

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 > 60	

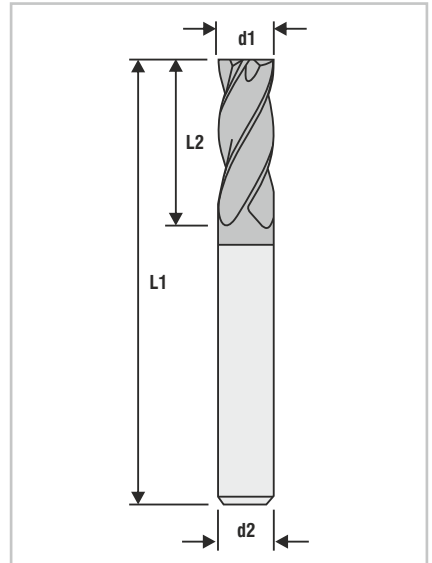


AT
COATING



λ 35°

MG
0.6μm



Tolerance	
Diameter	Range
$1 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03
$18 \leq d$	0 / -0.04

FLAT
End Mills

TX
55
Series

TX Star 4 LS (≤55 HRC)
Flat End Mills - Long Shank Series



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

Article No.	Dimension (mm)					
	4 Flute	Ø d1	Ø d2 h10	L2 h6	L1	AT-coated
TX3-SEM 4030 LS 75		3	3	9	75	■
TX4-SEM 4030 LS 75		3	4	9	75	■
TX4-SEM 4040 LS 75		4	4	11	75	■
TX4-SEM 4040 LS 100		4	4	11	100	■
TX6-SEM 4030 LS 75		3	6	9	75	■
TX6-SEM 4040 LS 75		4	6	11	75	■
TX6-SEM 4050 LS 75		5	6	13	75	■
TX6-SEM 4060 LS 75		6	6	16	75	■
TX6-SEM 4040 LS 100		4	6	11	100	■
TX6-SEM 4060 LS 100		6	6	16	100	■
TX8-SEM 4080 LS 75		8	8	20	75	■
TX8-SEM 4080 LS 100		8	8	20	100	■
TX10-SEM 4100 LS 100		10	10	25	100	■
TX10-SEM 4100 LS 150		10	10	25	150	■
TX12-SEM 4120 LS 100		12	12	30	100	■
TX12-SEM 4120 LS 150		12	12	30	150	■
TX16-SEM 4160 LS 150		16	16	40	150	■
TX20-SEM 4200 LS 150		20	20	45	150	■



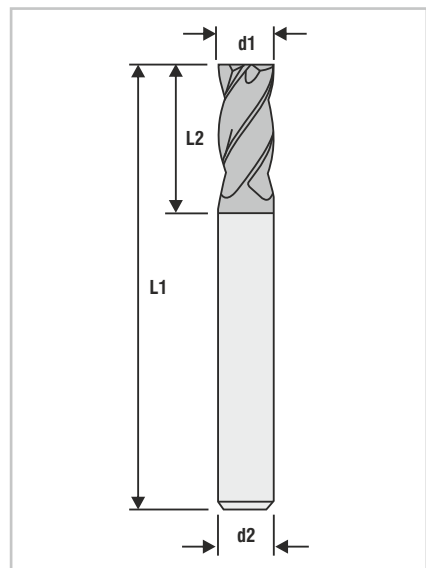
LS
SERIES

AT
COATING



λ 35°

MG
0.6µm



Tolerance	
Diameter	Range
3 ≤ d < 8	0 / -0.02
8 ≤ d < 18	0 / -0.03
18 ≤ d	0 / -0.04

■ Available EX stock / subject to prior sale
MG - Micron Grade

FLAT
End Mills

TX Star 2 (≤ 55 HRC) LS

Flat End Mills - Long Shank Series

Article No.	Dimension (mm)					AT-coated
	2 Flute	\varnothing d1	\varnothing d2 h10	L2 h6	L1	
TX3-SEM 2030 LS 75		3	3	9	75	■
TX4-SEM 2030 LS 75		3	4	9	75	■
TX4-SEM 2040 LS 75		4	4	11	75	■
TX4-SEM 2040 LS 100		4	4	11	100	■
TX6-SEM 2030 LS 75		3	6	9	75	■
TX6-SEM 2040 LS 75		4	6	11	75	■
TX6-SEM 2050 LS 75		5	6	13	75	■
TX6-SEM 2060 LS 75		6	6	16	75	■
TX6-SEM 2040 LS 100		4	6	11	100	■
TX6-SEM 2060 LS 100		6	6	16	100	■
TX8-SEM 2080 LS 75		8	8	20	75	■
TX8-SEM 2080 LS 100		8	8	20	100	■
TX10-SEM 2100 LS 100		10	10	25	100	■
TX10-SEM 2100 LS 150		10	10	25	150	■
TX12-SEM 2120 LS 100		12	12	30	100	■
TX12-SEM 2120 LS 150		12	12	30	150	■
TX16-SEM 2160 LS 150		16	16	40	150	■
TX20-SEM 2200 LS 150		20	20	45	150	■

■ Available ex stock / subject to prior sale
MG - Micron Grade



TX
55
 Series

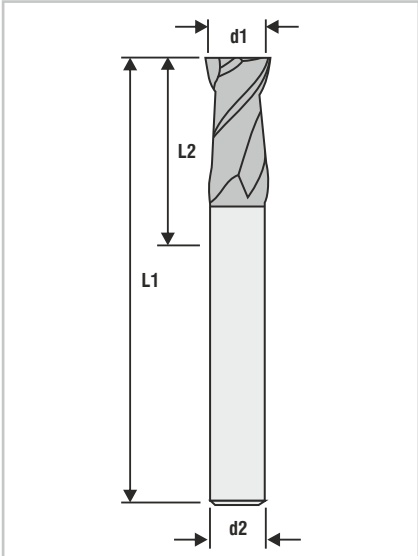
Steel	$R_m < 850$	■
	$R_m 850-1300$	■
	$R_m 1300-1500$	■
M	Stainless Steel	□
K	Cast Iron	■
N	Copper	□
S	Titanium	■
Hardened Steel	HRC 48-55	■
	HRC 56-60	□
	HRC > 60	□







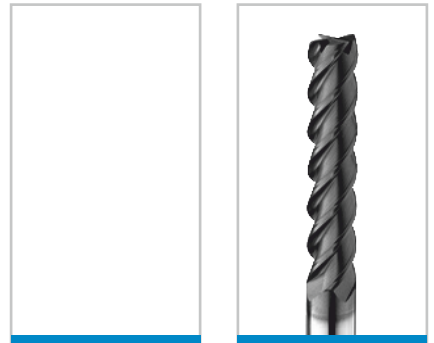

FLAT
 End Mills



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

TX
55
Series

TX Star 4 (≤ 55 HRC) LF
Flat End Mills - Long Flute Series



	Steel	
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 > 60	

Article No.	Dimension (mm)					
	4 Flute	$\varnothing d1$	$\varnothing d2$ h10 h6	L2	L1	AT-coated
TX3-SEM 4030 LF 75		3	3	12	75	■
TX4-SEM 4030 LF 75		3	4	12	75	■
TX4-SEM 4040 LF 75		4	4	15	75	■
TX6-SEM 4050 LF 75		5	6	20	75	■
TX6-SEM 4060 LF 75		6	6	25	75	■
TX6-SEM 4060 LF 100		6	6	30	100	■
TX8-SEM 4080 LF 100		8	8	40	100	■
TX10-SEM 4100 LF 100		10	10	45	100	■
TX12-SEM 4120 LF 100		12	12	50	100	■
TX16-SEM 4160 LF 150		16	16	75	150	■
TX16-SEM 4160 LF 150-SP		16	16	60	150	■
TX20-SEM 4200 LF 150-SP		20	20	90	150	■
TX20-SEM 4200 LF 200-SP		20	20	90	200	■
TX20-SEM 4200 LF 200		20	20	100	200	■

FLAT
End Mills



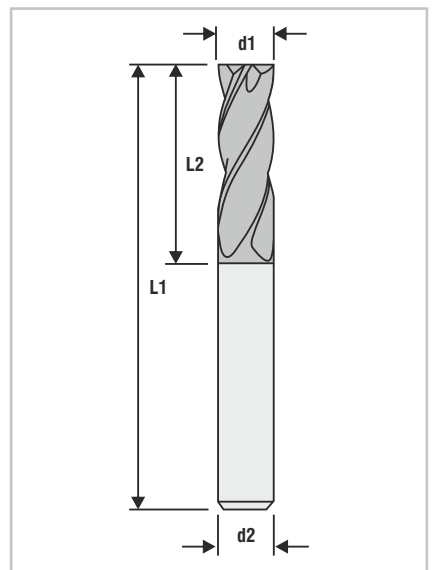
LF
SERIES

AT
COATING



λ **35°**

MG
0.6 μ m



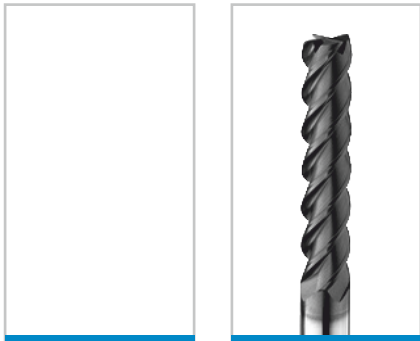
Tolerance	
Diameter	Range
$3 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03
$18 \leq d$	0 / -0.04

■ Available ex stock / subject to prior sale
MG - Micron Grade

TX Star 4 (≤ 55 HRC) LF
Flat End Mills - Long Flute- Series - SPECIAL

Article No.	Dimension (mm)					
	4 Flute	\emptyset d1	\emptyset d2 h10	L2 h6	L1	AT-coated
TX4-SEM4010 LF 50		1	4	7	50	■
TX4-SEM4015 LF 50		1.5	4	9	50	■
TX4-SEM4020 LF 50		2	4	12	50	■
TX4-SEM4025 LF 50		2.5	4	12	50	■
TX6-SEM4030 LF 60		3	6	15	60	■
TX6-SEM4035 LF 60		3.5	6	15	60	■
TX6-SEM4040 LF 75		4	6	20	75	■
TX6-SEM4045 LF 75		4.5	6	20	75	■
TX6-SEM4050 LF 75 (FL25)		5	6	25	75	■
TX6-SEM4055 LF 75 (FL25)		5.5	6	25	75	■
TX6-SEM4060 LF 75 (FL30)		6	6	30	75	■

■ Available ex stock / subject to prior sale
MG - Micron Grade



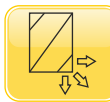
TX
55
Series

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 > 60	



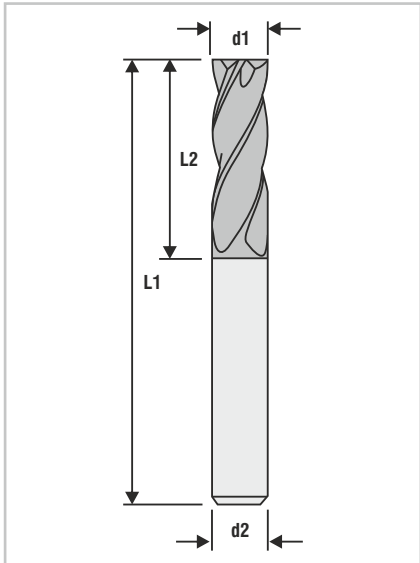
LF
SERIES

AT
COATING



λ **35°**

MG
0.6 μ m



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

FLAT
End Mills

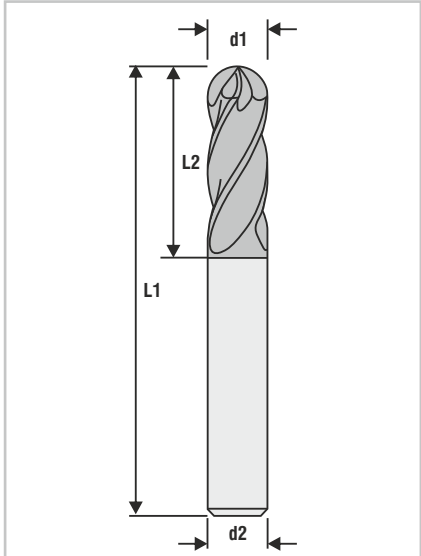
TX
55
Series

TB Star 4/2 (≤ 55 HRC)
Ball Nose End Mills - Regular Series

Article No.		Dimension (mm)					
4 Flute	2 Flute	$\varnothing d1$ h10	$\varnothing d2$ h6	L2	L1	AT-coated	
TB4-SBM 4010	TB4-SBM 2010	R0.50	4	2	50	■	
TB4-SBM 4015	TB4-SBM 2015	R0.75	4	3	50	■	
TB4-SBM 4020	TB4-SBM 2020	R1.00	4	4	50	■	
TB4-SBM 4025	TB4-SBM 2025	R1.25	4	5	50	■	
TB4-SBM 4030	TB4-SBM 2030	R1.50	4	6	50	■	
TB4-SBM 4040	TB4-SBM 2040	R2.00	4	8	50	■	
TB6-SBM 4050	TB6-SBM 2050	R2.50	6	10	50	■	
TB6-SBM 4060	TB6-SBM 2060	R3.00	6	12	50	■	
TB8-SBM 4070	TB8-SBM 2070	R3.50	8	12	60	■	
TB8-SBM 4080	TB8-SBM 2080	R4.00	8	16	60	■	
TB10-SBM 4090	TB10-SBM 2090	R4.50	10	18	75	■	
TB10-SBM 4100	TB10-SBM 2100	R5.00	10	20	75	■	
TB12-SBM 4120	TB12-SBM 2120	R6.00	12	24	75	■	
TB16-SBM 4160	TB16-SBM 2160	R8.00	16	32	100	■	
TB20-SBM 4200	TB20-SBM 2200	R10.0	20	40	100	■	



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 > 60	□



Tolerance	
Diameter	Range
$1 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03
$20 \leq d$	0 / -0.04

■ Available ex stock / subject to prior sale
MG - Micron Grade

BALL
End Mills

TB Star 4 (≤ 55 HRC) LS

Ball Nose End Mills - Long Shank Series

Article No.	Dimension (mm)					AT-coated
	4 Flute	\varnothing d1 h10	\varnothing d2 h6	L2	L1	
TB4-SBM 4020 LS 75		R1.00	4	4	75	■
TB3-SBM 4030 LS 75		R1.50	3	6	75	■
TB4-SBM 4030 LS 75		R1.50	4	6	75	■
TB4-SBM 4040 LS 75		R2.00	4	8	75	■
TB4-SBM 4040 LS 100		R2.00	4	8	100	■
TB5-SBM 4050 LS 75		R2.50	5	10	75	■
TB5-SBM 4050 LS 100		R2.50	5	10	100	■
TB6-SBM 4020 LS 75		R1.00	6	4	75	■
TB6-SBM 4030 LS 75		R1.50	6	6	75	■
TB6-SBM 4040 LS 75		R2.00	6	8	75	■
TB6-SBM 4050 LS 75		R2.50	6	10	75	■
TB6-SBM 4060 LS 75		R3.00	6	12	75	■
TB6-SBM 4040 LS 100		R2.00	6	8	100	■
TB6-SBM 4050 LS 100		R2.50	6	10	100	■
TB6-SBM 4060 LS 100		R3.00	6	12	100	■
TB6-SBM 4060 LS 150		R3.00	6	12	150	■
TB8-SBM 4080 LS 75		R4.00	8	16	75	■
TB8-SBM 4080 LS 100		R4.00	8	16	100	■
TB10-SBM 4100 LS 100		R5.00	10	20	100	■
TB10-SBM 4100 LS 150		R5.00	10	20	150	■
TB12-SBM 4120 LS 100		R6.00	12	24	100	■
TB12-SBM 4120 LS 150		R6.00	12	24	150	■
TB16-SBM 4160 LS 150		R8.00	16	32	150	■
TB20-SBM 4200 LS 150		R10.0	20	40	150	■

■ Available ex stock / subject to prior sale
MG - Micron Grade

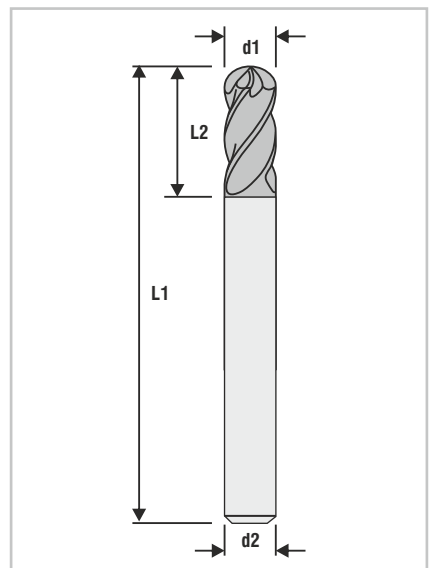


TX
55
 Series

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 > 60	□



BALL
 End Mills



Tolerance	
Diameter	Range
$1 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03
$20 \leq d$	0 / -0.04

TX Cornstar (≤ 55 HRC)

Corner Radius End Mills - Regular Series

Article No.		Dimension (mm)						
4 Flute	2 Flute	$\varnothing d1$ h10	$\varnothing d2$ h6	r	L2	L1	AT-coated	
TX-CS-SEM2010-r02	TX-CS-SEM4010-r02	1	4	0.2	2	50	■	
TX-CS-SEM2020-r02	TX-CS-SEM4020-r02	2	4	0.2	4	50	■	
TX-CS-SEM2020-r05	TX-CS-SEM4020-r05	2	4	0.5	4	50	■	
TX-CS-SEM2030-r02	TX-CS-SEM4030-r02	3	4	0.2	6	50	■	
TX-CS-SEM2030-r05	TX-CS-SEM4030-r05	3	4	0.5	6	50	■	
TX-CS-SEM2030-r10	TX-CS-SEM4030-r10	3	4	1.0	6	50	■	
TX-CS-SEM2040-r02	TX-CS-SEM4040-r02	4	4	0.2	8	50	■	
TX-CS-SEM2040-r05	TX-CS-SEM4040-r05	4	4	0.5	8	50	■	
TX-CS-SEM2040-r10	TX-CS-SEM4040-r10	4	4	1.0	8	50	■	
TX-CS-SEM2050-r05	TX-CS-SEM4050-r05	5	6	0.5	10	50	■	
TX-CS-SEM2050-r10	TX-CS-SEM4050-r10	5	6	1.0	10	50	■	
TX-CS-SEM2060-r02	TX-CS-SEM4060-r02	6	6	0.2	12	50	■	
TX-CS-SEM2060-r05	TX-CS-SEM4060-r05	6	6	0.5	12	50	■	
TX-CS-SEM2060-r10	TX-CS-SEM4060-r10	6	6	1.0	12	50	■	
TX-CS-SEM2060-r1.5	TX-CS-SEM4060-r1.5	6	6	1.5	12	50	■	
TX-CS-SEM2060-r20	TX-CS-SEM4060-r20	6	6	2	12	50	■	
TX-CS-SEM2080-r05	TX-CS-SEM4080-r05	8	8	0.5	16	60	■	
TX-CS-SEM2080-r10	TX-CS-SEM4080-r10	8	8	1.0	16	60	■	
TX-CS-SEM2080-r15	TX-CS-SEM4080-r15	8	8	1.5	16	60	■	
TX-CS-SEM2080-r20	TX-CS-SEM4080-r20	8	8	2.0	16	60	■	
TX-CS-SEM2100-r05	TX-CS-SEM4100-r05	10	10	0.5	20	75	■	
TX-CS-SEM2100-r10	TX-CS-SEM4100-r10	10	10	1.0	20	75	■	
TX-CS-SEM2100-r15	TX-CS-SEM4100-r15	10	10	1.5	20	75	■	
TX-CS-SEM2100-r20	TX-CS-SEM4100-r20	10	10	2.0	20	75	■	
TX-CS-SEM2100-r25	TX-CS-SEM4100-r25	10	10	2.5	20	75	■	
TX-CS-SEM2100-r30	TX-CS-SEM4100-r30	10	10	3.0	20	75	■	
TX-CS-SEM2120-r05	TX-CS-SEM4120-r05	12	12	0.5	24	75	■	
TX-CS-SEM2120-r10	TX-CS-SEM4120-r10	12	12	1.0	24	75	■	
TX-CS-SEM2120-r15	TX-CS-SEM4120-r15	12	12	1.5	24	75	■	
TX-CS-SEM2120-r20	TX-CS-SEM4120-r20	12	12	2.0	24	75	■	
TX-CS-SEM2120-r25	TX-CS-SEM4120-r25	12	12	2.5	24	75	■	
TX-CS-SEM2120-r30	TX-CS-SEM4120-r30	12	12	3.0	24	75	■	
TX-CS-SEM4160-r05	TX-CS-SEM2160-r05	16	16	0.5	32	100	■	
TX-CS-SEM4160-r10	TX-CS-SEM2160-r10	16	16	1.0	32	100	■	
TX-CS-SEM4160-r15	TX-CS-SEM2160-r15	16	16	1.5	32	100	■	
TX-CS-SEM4160-r20	TX-CS-SEM2160-r20	16	16	2.0	32	100	■	
TX-CS-SEM4160-r25	TX-CS-SEM2160-r25	16	16	2.5	32	100	■	
TX-CS-SEM4160-r30	TX-CS-SEM2160-r30	16	16	3.0	32	100	■	

■ Available ex stock / subject to prior sale
MG - Micron Grade

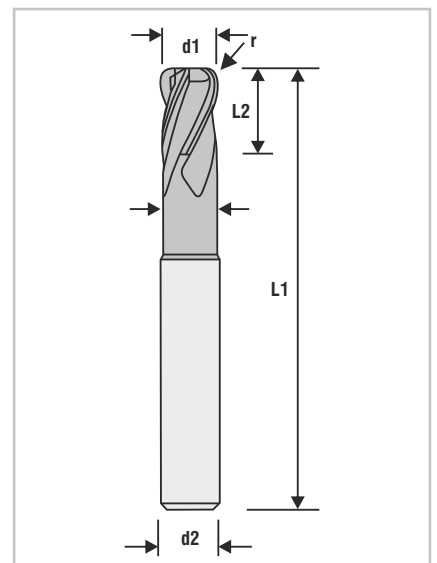


TX
55
Series

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 > 60	



CORNER
End Mills



Tolerance	
Diameter	Range
$1 \leq d < 8$	0 / -0.02
$8 \leq d < 18$	0 / -0.03

