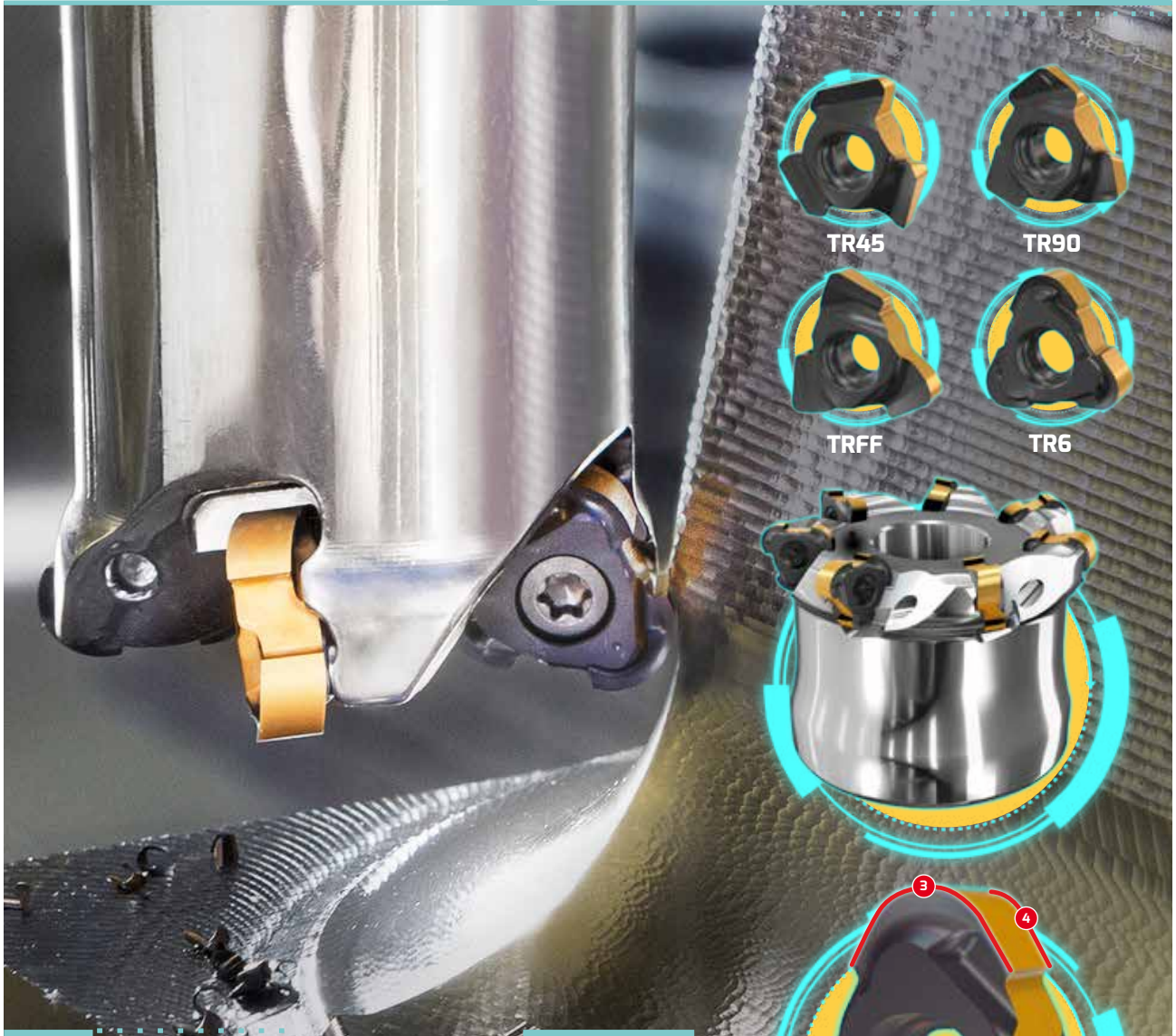


TOR6MILL

PROFILING

Profile Milling 16-80 mm Diameters Radius Master



Radial Profile Insert for Die & Mold and General Applications



High Positive
Rake Angle



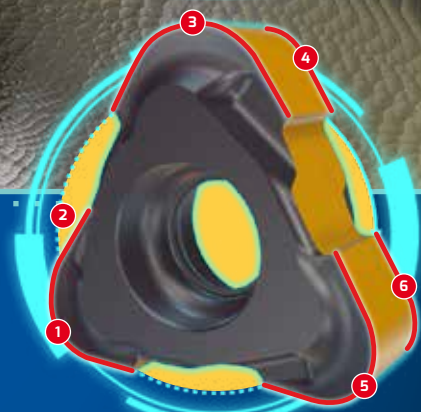
Innovative Insert
Design



Variety of
Cutting Geometries



Cost Effective
Insert

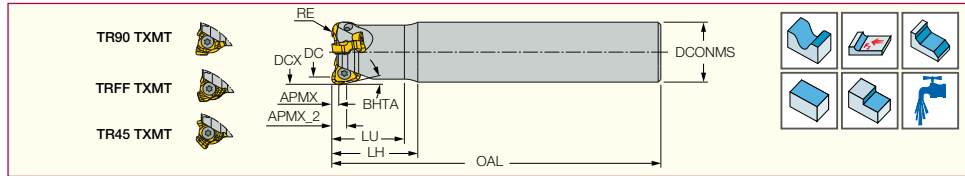


Double Sided Inserts with
6 Round Cutting Edges

LOGIQMILL
ISCAR CHESS LINES

TR6 ER

Multifunction Endmills that can Carry Four Different Insert Geometries



Designation	DCX	DC	APMX	APMX ₂ ⁽¹⁾	RE	CICT ⁽²⁾	LU	LH	DCONMS	BHTA	OAL	WT ⁽³⁾	Insert
TR6 ER D16-50-2-C16-07	16.00	14.00	1.00	2.00	1.00	2	46.5	50.0	16.00	21.0	100.00	0.12	TR6 TNCU 070210
TR6 ER D20-60-4-C20-07	20.00	18.00	1.00	2.00	1.00	4	56.5	60.0	20.00	21.0	120.00	0.22	TR6 TNCU 070210
TR6 ER D25-70-5-C25-07	25.00	23.00	1.00	2.00	1.00	5	65.5	70.0	25.00	21.0	140.00	0.42	TR6 TNCU 070210
TR6 ER D32-80-6-C32-07	32.00	30.00	1.00	2.00	1.00	6	75.5	80.0	32.00	21.0	160.00	0.82	TR6 TNCU 070210
TR6 ER D25-70-3-C25-10	25.00	20.00	2.50	4.20	2.50	3	65.0	70.0	25.00	20.5	140.00	0.41	TR6 TNCU 100425
TR6 ER D32-80-4-C32-10	32.00	27.00	2.50	4.20	2.50	4	75.0	80.0	32.00	20.5	160.00	0.81	TR6 TNCU 100425

• Note: The data refers to TR6 TNCU 070210 and TR6 TNCU 100425 master inserts, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

Spare Parts

Designation	Screw	Key
TR6 ER D16-50-2-C16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D20-60-4-C20-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25-70-5-C25-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D32-80-6-C32-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25-70-3-C25-10	SR 10508600	T-9/51
TR6 ER D32-80-4-C32-10	SR 10508600	T-9/51

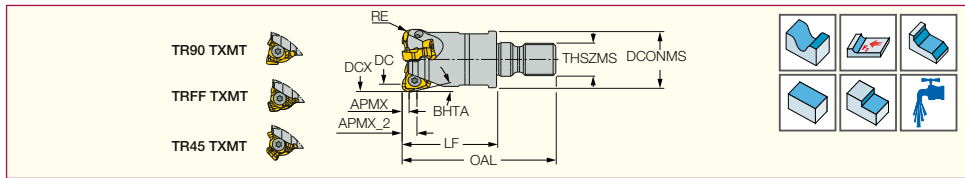
Tool	Insert	DCX	DC	APMX	LU	LH	OAL	RMPX ⁽¹⁾	For undercutting	
									APMX ₂	BHTA
TR6 ER D16-50-2-C16-07	TR6 TNCU 070205	16.0	15.0	0.5	46.4	49.9	99.9	-	1.6	17.0
	TR6 TNMU 070215		13.0	1.5	45.6	50.1	100.1	-	2.4	21.0
	TRFF TXMT 0702		12.1	0.6	46.7	50.2	100.2	1.1	-	-
	TR90 TXMT 070204		-	2.5	46.8	50.3	100.3	1.6	-	-
TR6 ER D20-60-4-C20-07	TR6 TNCU 070205	20.0	19.0	0.5	56.4	59.9	119.9	-	1.6	17.0
	TR6 TNMU 070215		17.0	1.5	56.6	60.1	120.1	-	2.4	21.0
	TRFF TXMT 0702		16.1	0.6	56.7	60.2	120.2	0.8	-	-
	TR90 TXMT 070204		-	2.5	56.8	60.3	120.3	1.2	-	-
TR6 ER D25-70-5-C25-07	TR6 TNCU 070205	25.0	24.0	1.0	65.4	69.9	139.9	-	1.6	17.0
	TR6 TNMU 070215		22.0	1.5	65.6	70.1	140.1	-	2.4	21.0
	TRFF TXMT 0702		21.1	0.6	65.7	70.2	140.2	0.6	-	-
	TR90 TXMT 070204		-	2.5	65.8	70.3	140.3	0.9	-	-
TR6 ER D32-80-6-C32-07	TR6 TNCU 070205	32.0	31.0	0.5	75.4	79.9	159.9	-	1.6	17.0
	TR6 TNMU 070215		29.0	1.5	75.6	80.1	160.1	-	2.4	21.0
	TRFF TXMT 0702		28.1	0.6	75.7	80.2	160.2	0.4	-	-
	TR90 TXMT 070204		-	2.5	75.8	80.3	160.3	0.7	-	-
TR6 ER D25-70-3-C25-10	TR6 TNCU 100405	25.0	24.0	0.5	64.52	69.52	139.52	-	1.8	17.5
	TR6 TNCU 100410		23.0	1.0	64.64	69.64	139.65	-	2.3	
	TR6 TNCU/MU 100415		22.0	1.5	64.76	69.76	139.76	-	2.7	
	TR6 TNCU 100420		21.0	2.0	64.88	69.88	139.88	-	3.5	
	TR6 TNCU 100430		19.0	3.0	65.12	70.12	140.12	-	4.5	20.5
	TRFF TXMT 1004		19.0	0.8	65.15	70.15	140.15	1.7	-	
	TR90 TXMT 100408		-	4.0	64.91	69.91	139.91	1.6	-	
TR6 ER D32-80-4-C32-10	TR45 TXMT 1004	26.8	20.6	3.0	65.12	70.12	140.12	1.4	-	
	TR6 TNCU 100405	32.0	31.0	0.5	74.52	79.52	159.52	-	1.8	17.5
	TR6 TNCU 100410		30.0	1.0	74.64	79.65	159.64	-	2.3	
	TR6 TNCU/MU 100415		29.0	1.5	74.76	79.76	159.76	-	2.7	
	TR6 TNCU 100420		28.0	2.0	74.88	79.88	159.88	-	3.5	
	TR6 TNCU 100430		26.0	3.0	75.12	80.12	160.12	-	4.5	20.5
	TRFF TXMT 1004		26.0	0.8	75.15	80.15	160.15	1.2	-	
TR90 TXMT 100408	-		4.0	74.91	79.91	159.91	1.2	-		
TR45 TXMT 1004	33.8	27.6	3.0	75.12	80.12	160.12	1.0	-		

(1) Maximum ramp down angle



TR6 ER-M

Multifunction Endmills with FLEXFIT
Threaded Adaptation that can Carry
Four Different Insert Geometries.



Designation	DCX	DC	APMX	APMX ₂ ⁽¹⁾	RE	CICT ⁽²⁾	LF	DCONMS	THSZMS	BHTA	OAL	WT ⁽³⁾	Insert
TR6 ER D16/0.63-2-M08-07	16.00	14.00	1.00	2.00	1.00	2	20.00	13.00	M08	21.0	37.50	0.03	TR6 TNCU 070210
TR6 ER D25/0.98-5-M12-07	25.00	23.00	1.00	2.00	1.00	5	30.00	21.00	M12	21.0	52.00	0.08	TR6 TNCU 070210
TR6 ER D32/1.26-6-M16-07	32.00	30.00	1.00	2.00	1.00	6	35.00	29.00	M16	21.0	60.00	0.18	TR6 TNCU 070210
TR6 ER D35/1.38-6-M16-07	35.00	33.00	1.00	2.00	1.00	6	35.00	29.00	M16	21.0	60.00	0.19	TR6 TNCU 070210
TR6 ER D25/0.98-3-M12-10	25.00	20.00	2.50	4.20	2.50	3	35.00	21.00	M12	20.5	57.00	0.06	TR6 TNCU 100425
TR6 ER D35/1.38-5-M16-10	35.00	30.00	2.50	4.20	2.50	5	35.00	29.00	M16	20.5	57.00	0.18	TR6 TNCU 100425

• Note: The data refers to TR6 TNCU 070210 and TR6 TNCU 100425 master inserts, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

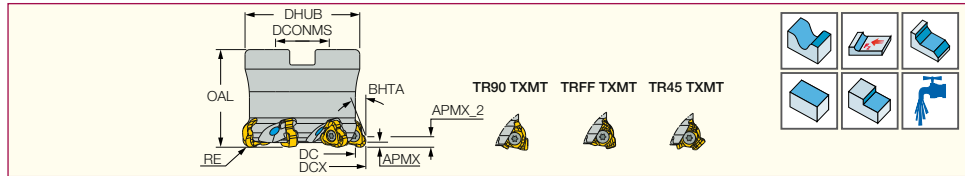
Spare Parts

Designation	Screw	Key
TR6 ER D16/0.63-2-M08-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25/0.98-5-M12-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D32/1.26-6-M16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D35/1.38-6-M16-07	SR M2.5X0.45-L6 IP7	IP-7/51
TR6 ER D25/0.98-3-M12-10	SR 10508600	T-9/51
TR6 ER D35/1.38-5-M16-10	SR 10508600	T-9/51

Tool	Insert	DCX	DC	APMX	LF	OAL	RMPX	For undercutting	
								APMX ₂	BHTA
TR6 ER D16/0.63-2-M08-07	TR6 TNCU 070205	16.0	15.0	0.5	24.9	42.4	-	1.6	17.0
	TR6 TNMU 070215		13.0	1.5	25.1	42.6	-	2.4	21.0
	TRFF TXMT 0702		12.1	0.6	25.2	47.2	1.1	-	-
	TR90 TXMT 070204		-	2.5	25.3	42.8	1.6	-	-
TR6 ER D20/0.78-4-M10-07	TR6 TNCU 070205	20.0	19.0	0.5	26.9	46.9	-	1.6	17.0
	TR6 TNMU 070215		17.0	1.5	27.1	47.1	-	2.4	21.0
	TRFF TXMT 0702		16.1	0.6	27.2	47.2	0.8	-	-
	TR90 TXMT 070204		-	2.5	27.3	47.3	1.2	-	-
TR6 ER D25/0.98-5-M12-07	TR6 TNCU 070205	25.0	24.0	0.5	29.9	51.9	-	1.6	17.0
	TR6 TNMU 070215		22.0	1.5	30.1	52.1	-	2.4	21.0
	TRFF TXMT 0702		21.1	0.6	30.2	52.2	0.6	-	-
	TR90 TXMT 070204		-	2.5	30.3	52.3	0.9	-	-
TR6 ER D32/1.26-6-M16-07	TR6 TNCU 070205	32.0	31.0	0.5	32.9	57.9	-	1.6	17.0
	TR6 TNMU 070215		29.0	1.5	33.1	58.1	-	2.4	21.0
	TRFF TXMT 0702		28.1	0.6	33.2	58.2	0.4	-	-
	TR90 TXMT 070204		-	2.5	33.3	58.3	0.7	-	-
TR6 ER D35/1.38-6-M16-07	TR6 TNCU 070205	35.0	34.0	0.5	32.9	57.9	-	1.6	17.0
	TR6 TNMU 070215		32.0	1.5	33.1	58.1	-	2.4	21.0
	TRFF TXMT 0702		31.1	0.6	33.2	58.2	0.4	-	-
	TR90 TXMT 070204		-	2.5	33.3	58.3	0.4	-	-
TR6 ER D25/0.98-3-M12-10	TR6 TNCU 100405	25.0	24.0	0.5	24.52	46.52	-	1.8	17.5
	TR6 TNCU 100410		23.0	1.0	24.64	46.64	-	2.3	-
	TR6 TNCU/MU 100415		22.0	1.5	24.76	46.76	-	2.7	-
	TR6 TNCU 100420		21.0	2.0	24.88	46.88	-	3.5	-
	TR6 TNCU 100430		19.0	3.0	25.12	47.12	-	4.5	20.5
	TRFF TXMT 1004		20.6	0.8	25.15	47.15	1.7	-	-
	TR90 TXMT 100408		-	4.0	24.91	46.91	1.6	-	-
	TR45 TXMT 1004		26.8	20.6	3.0	25.12	47.12	1.4	-
TR6 ER D32/1.26-4-M16-10	TR6 TNCU 100405	32.0	31.0	0.5	34.52	59.52	-	1.8	17.5
	TR6 TNCU 100410		30.0	1.0	34.64	59.64	-	2.3	-
	TR6 TNCU/MU 100415		29.0	1.5	34.76	59.76	-	2.7	-
	TR6 TNCU 100420		28.0	2.0	34.88	59.88	-	3.5	-
	TR6 TNCU 100430		26.0	3.0	35.12	60.12	-	4.5	20.5
	TRFF TXMT 1004		27.6	0.8	35.15	60.15	1.2	-	-
	TR90 TXMT 100408		-	4.0	34.91	59.91	1.1	-	-
	TR45 TXMT 1004		33.8	27.6	3.0	35.12	60.12	0.9	-
TR6 ER D35/1.38-5-M16-10	TR6 TNCU 100405	35.0	34.0	0.5	34.52	59.52	-	1.8	17.5
	TR6 TNCU 100410		33.0	1.0	34.64	59.64	-	2.3	-
	TR6 TNCU/MU 100415		32.0	1.5	34.76	59.76	-	2.7	-
	TR6 TNCU 100420		31.0	2.0	34.88	59.88	-	3.5	-
	TR6 TNCU 100430		29.0	3.0	35.12	60.12	-	4.5	20.5
	TRFF TXMT 1004		30.6	0.8	35.15	60.15	1.2	-	-
	TR90 TXMT 100408		-	4.0	34.91	59.91	1.1	-	-
	TR45 TXMT 1004		36.8	30.6	3.0	35.12	60.12	0.9	-

TR6 FR

Multifunction Face Mills that can Carry Four Different Insert Geometries



Designation	DCX	DC	APMX	APMX ₂ (1)	RE	CICT(2)	DCONMS	Arbor	DHUB	BHTA	OAL	WT(3)	Insert
TR6 FR D40-06-16-10	40.00	35.00	2.50	4.20	2.50	6	16.00	A	32.00	20.5	37.00	0.14	TR6 TNCU 100425
TR6 FR D42-06-16-10	42.00	37.00	2.50	4.20	2.50	6	16.00	A	32.00	20.5	37.00	0.15	TR6 TNCU 100425
TR6 FR D50-07-22-10	50.00	45.00	2.50	4.20	2.50	7	22.00	A	47.00	20.5	40.00	0.29	TR6 TNCU 100425
TR6 FR D52-07-22-10	52.00	47.00	2.50	4.20	2.50	7	22.00	A	47.00	20.5	40.00	0.33	TR6 TNCU 100425
TR6 FR D63-08-22-10	63.00	58.00	2.50	4.20	2.50	8	22.00	A	48.00	20.5	40.00	0.42	TR6 TNCU 100425
TR6 FR D66-08-22-10	66.00	61.00	2.50	4.20	2.50	8	22.00	A	48.00	20.5	40.00	0.46	TR6 TNCU 100425
TR6 FR D80-10-27-10	80.00	75.00	2.50	4.20	2.50	10	27.00	A	60.00	20.5	50.00	0.91	TR6 TNCU 100425

• Note: The data refers to TR6 TNCU 100425 master insert, for other insert radii and geometries refer to the table below

(1) For undercutting (2) Number of inserts (3) Item weight

Spare Parts



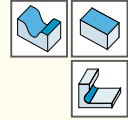
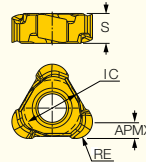
Designation	Screw	Key	Screw 1
TR6 FR D40-06-16-10	SR 10508600	T-9/51	SR M8X25DIN912*
TR6 FR D42-06-16-10	SR 10508600	T-9/51	SR M8X25DIN912
TR6 FR D50-07-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D52-07-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D63-08-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D66-08-22-10	SR 10508600	T-9/51	SR M10X25 DIN912
TR6 FR D80-10-27-10	SR 10508600	T-9/51	SR M12X30DIN912

* Optional, should be ordered separately

Tool	Insert	DCX	DC	APMX	OAL	RMPX	For undercutting	
							APMX 2	BHTA
TR6 FR D40-06-16-10	TR6 TNCU 100405	40.0	39.0	0.5	36.52	-	1.8	17.5
	TR6 TNCU 100410		38.0	1.0	36.64	-	2.3	
	TR6 TNCU/MU 100415		37.0	1.5	36.76	-	2.7	
	TR6 TNCU 100420		36.0	2.0	36.88	-	3.5	
	TR6 TNCU 100430		34.0	3.0	37.12	-	4.5	20.5
	TRFF TXMT 1004		34.0	0.8	37.15	0.9	-	
	TR90 TXMT 100408		-	4.0	36.91	0.9	-	
	TR45 TXMT 1004		41.8	35.6	3.0	37.12	0.7	-
TR6 FR D42-06-16-10	TR6 TNCU 100405	42.0	41.0	0.5	36.52	-	1.8	17.5
	TR6 TNCU 100410		40.0	1.0	36.64	-	2.3	
	TR6 TNCU/MU 100415		39.0	1.5	36.76	-	2.7	
	TR6 TNCU 100420		38.0	2.0	36.88	-	3.5	
	TR6 TNCU 100430		36.0	3.0	37.12	-	4.5	20.5
	TRFF TXMT 1004		36.0	0.8	37.15	0.9	-	
	TR90 TXMT 100408		-	4.0	36.91	0.9	-	
	TR45 TXMT 1004		43.8	37.6	3.0	37.12	0.7	-
TR6 FR D50-07-22-10	TR6 TNCU 100405	50.0	49.0	0.5	39.52	-	1.8	17.5
	TR6 TNCU 100410		48.0	1.0	39.64	-	2.3	
	TR6 TNCU/MU 100415		47.0	1.5	39.76	-	2.7	
	TR6 TNCU 100420		46.0	2.0	39.88	-	3.5	
	TR6 TNCU 100430		44.0	3.0	40.12	-	4.5	20.5
	TRFF TXMT 1004		44.0	0.8	40.15	0.7	-	
	TR90 TXMT 100408		-	4.0	39.91	0.7	-	
	TR45 TXMT 1004		51.8	45.6	3.0	40.12	0.6	-
TR6 FR D52-07-22-10	TR6 TNCU 100405	52.0	51.0	0.5	39.52	-	1.8	17.5
	TR6 TNCU 100410		50.0	1.0	39.64	-	2.3	
	TR6 TNCU/MU 100415		49.0	1.5	39.76	-	2.7	
	TR6 TNCU 100420		48.0	2.0	39.88	-	3.5	
	TR6 TNCU 100430		46.0	3.0	40.12	-	4.5	20.5
	TRFF TXMT 1004		46.0	0.8	40.15	0.7	-	
	TR90 TXMT 100408		-	4.0	39.91	0.7	-	
	TR45 TXMT 1004		53.8	53.8	3.0	40.12	0.6	-
TR6 FR D63-08-22-10	TR6 TNCU 100405	63.0	62.0	0.5	39.52	-	1.8	17.5
	TR6 TNCU 100410		61.0	1.0	39.64	-	2.3	
	TR6 TNCU/MU 100415		60.0	1.5	39.76	-	2.7	
	TR6 TNCU 100420		59.0	2.0	39.88	-	3.5	
	TR6 TNCU 100430		57.0	3.0	40.12	-	4.5	20.5
	TRFF TXMT 1004		57.0	0.8	40.15	0.5	-	
	TR90 TXMT 100408		-	4.0	39.91	0.5	-	
	TR45 TXMT 1004		64.8	58.6	3.0	40.12	0.4	-
TR6 FR D66-08-22-10	TR6 TNCU 100405	66.0	65.0	0.5	39.52	-	1.8	17.5
	TR6 TNCU 100410		64.0	1.0	39.64	-	2.3	
	TR6 TNCU/MU 100415		63.0	1.5	39.76	-	2.7	
	TR6 TNCU 100420		62.0	2.0	39.88	-	3.5	
	TR6 TNCU 100430		60.0	3.0	40.12	-	4.5	20.5
	TRFF TXMT 1004		60.0	0.8	40.15	0.5	-	
	TR90 TXMT 100408		-	4.0	39.91	0.5	-	
	TR45 TXMT 1004		67.8	61.6	3.0	40.12	0.4	-
TR6 FR D80-10-27-10	TR6 TNCU 100405	80.0	79.0	0.5	49.52	-	1.8	17.5
	TR6 TNCU 100410		78.0	1.0	49.64	-	2.3	
	TR6 TNCU/MU 100415		77.0	1.5	49.76	-	2.7	
	TR6 TNCU 100420		76.0	2.0	49.88	-	3.5	
	TR6 TNCU 100430		74.0	3.0	50.12	-	4.5	20.5
	TRFF TXMT 1004		74.0	0.8	50.15	0.4	-	
	TR90 TXMT 100408		-	4.0	49.91	0.4	-	
	TR45 TXMT 1004		81.8	75.6	3.0	50.12	0.3	-

TR6 TNCU/MU

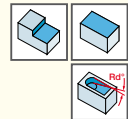
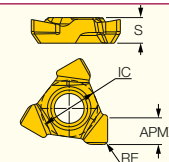
Double Sided Inserts with Six Round Cutting Edges, Available in 0.5 Up to 3.0 mm Corner Radii



Designation	Dimensions				Tough ↔ Hard				Recommended Machining Data	
	RE	APMX	IC	S	IC882	IC830	IC808	IC908	a _p (mm)	f _z (mm/t)
TR6 TNCU 070205	0.50	0.50	5.30	2.80		•	•		0.20-0.50	0.10-0.30
TR6 TNCU 070210	1.00	1.00	5.30	2.80		•	•		0.20-1.00	0.10-0.30
TR6 TNMU 070215	1.50	1.50	5.30	2.80		•	•		0.20-1.50	0.10-0.30
TR6 TNCU 100405	0.50	0.50	7.30	4.20	•	•	•		0.20-0.50	0.10-0.30
TR6 TNCU 100410	1.00	1.00	7.30	4.20	•	•	•		0.20-1.00	0.10-0.30
TR6 TNCU 100415	1.50	1.50	7.30	4.20	•	•	•		0.20-1.50	0.10-0.30
TR6 TNMU 100415	1.50	1.50	7.30	4.20	•	•	•		0.20-1.50	0.10-0.30
TR6 TNCU 100420	2.00	2.00	7.30	4.20	•	•	•		0.20-2.00	0.10-0.30
TR6 TNCU 100425	2.50	2.50	7.30	4.20	•	•	•	•	0.20-2.50	0.10-0.30
TR6 TNCU 100430	3.00	3.00	7.30	4.20	•	•	•		0.20-3.00	0.10-0.30

TR90 TXMT

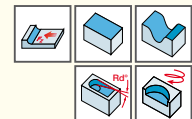
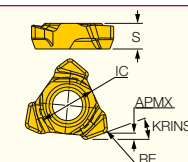
Single Sided Insert with Three Cutting Edges for 90° Shoulder and Face Milling



Designation	Dimensions				Tough ↔ Hard		Recommended Machining Data	
	APMX	RE	IC	S	IC830	IC808	a _p (mm)	f _z (mm/t)
TR90 TXMT 070204	2.50	0.40	5.30	2.40	•	•	0.50-2.50	0.10-0.20
TR90 TXMT 100408	4.00	0.80	7.30	3.90	•	•	0.90-4.00	0.10-0.20

TRFF TXMT

Single Sided Insert with Three Cutting Edges for High Feed Machining

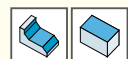
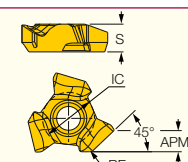


Designation	Dimensions						Tough ↔ Hard		Recommended Machining Data	
	APMX	RE	R ₀ ⁽¹⁾	IC	S	KRINS ⁽²⁾	IC830	IC808	a _p (mm)	f _z (mm/t)
TRFF TXMT 0702	0.60	0.50	1.00	5.30	2.40	18.0	•	•	0.20-0.60	0.50-0.80
TRFF TXMT 1004	0.80	0.70	1.40	7.30	3.90	17.0	•	•	0.20-0.80	0.70-1.20

⁽¹⁾ Radius for programming ⁽²⁾ Edge angle related to the wiper

TR45 TXMT

Single Sided Inserts with Three Cutting Edges for 45° Chamfering and Face Milling



Designation	Dimensions				Tough ↔ Hard		Recommended Machining Data	
	APMX	RE	IC	S	IC830	IC808	a _p (mm)	f _z (mm/t)
TR45 TXMT 1004	3.00	0.40	7.30	3.90	•	•	1.00-3.00	0.20-0.40