



One Stop Solution ...

Solid Carbide Milling Cutter



EndMill

- # Solid Carbide Carbide End Mills
- # 4 Flute, 2 Flute
- # New updated TiSiN Coated for General Use on materials up to 55HRC.
- # Performs well on Steel, Cast Iron, Copper, Mould Steel and 304/316 Stainless Steels.



Ball Nose

- # Solid Carbide Carbide Ball Nose
- # 4 Flute, 2 Flute Ball Nose
- # New updated TiSiN Coated for General Use on materials up to 55HRC.
- # Performs well on Steel, Cast Iron, Copper, Mould Steel and 304/316 Stainless Steels.



EndMill - Aluminium

- # 3 Flute & 2 Flute
- # Aluminium / Plastics
- # 45° Helix

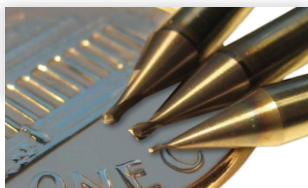


Roughing Endmill



Solid Carbide Drill

- # Through Coolant
- (3 XD, 5 X D)



Micro EndMill

- # Micro Carbide 2 Flute End Mill ALTIN Coated
- # 0.2 mm - 0.9 mm
- # 4 mm
- # 50 mm OAL

Turning & Milling Carbide Inserts

WIDIA 



Tool Holding



ER Collet Chuck

- # Tapper - BT / BBT / SK / CAT / ISO
- # Standard, Long, Extra Long
- # ER11, ER16, ER20, ER25, ER32, ER40



Side Lock Holder

- # Tapper - BT / BBT / SK / CAT / ISO
- # Standard, Long
- # 16mm / 20mm / 25mm / 32mm / 40mm / 50mm



Face Mill Arbour Holder

- # Tapper - BT / BBT / SK / CAT / ISO
- # Standard, Long
- # 16mm / 22mm / 27mm / 32mm



ER Tapping Chuck

- # Tapper - BT / BBT / SK / CAT / ISO
- # Minimum Length Compensation Tapping Chucks
- # +/-0.5mm Compression & Expansion
- # High Concentricity Enables High Speed Tapping



Drill Chuck

- # Tapper - BT / BBT / SK / CAT / ISO
- # Economy Drill Chuck for General Engineering Applications

*All Tapper Available : 30, 40, 50

Tool Holding



Morse Taper Adaptor

BT 30, BT 40, BT 50

SK 30, SK 40, SK 50

For Tools with Morse Taper Shank & Tang



Hydrogrip Holder

BT 40, BT 50



Cylindrical Collect Chuck

ER8 / ER11 / ER16 / ER20 / ER25 / ER32 / ER40

A Type Hex Nuts

M Type Nuts / UM Type Nuts



Shrink Fit Holder

BT 40, BT 50 , HSK

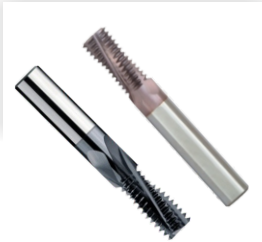


HSK Adaptor

HSK 63A

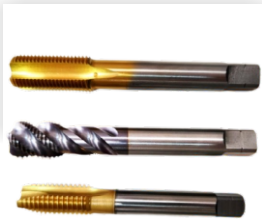
ER / SLA / ARBOUR

Threading Tools



Solid Carbide – Thread Mill

Metric - Metric Fine - UNC - UNF - BSP

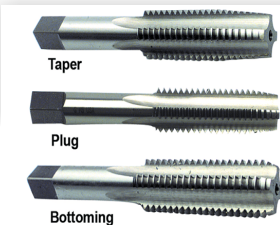


Machine Tap – HSSE

Metric - BSP - BSW - UNC - UNF

Spiral & Straight Tap

Forming Tap



HSS Hand Taps

Metric - BSP - BSW - UNC - UNF



Taper Thread Mill (Surgical Tools)

Taper - 20°

Pitch - 0.4mm / 0.5mm / 0.3mm / 0.6mm

Thread Angle - 60° & 55°



Threading Insert

Metric ISO - 60° / UN / W / NPT / BSP

Indexable Tools



Face Mill

Ø40 - 250 mm

0°/ 45°/ 90° Shoulder Mills



End Milling Cutter

Ø12 - 40 mm



Chamfer Cutter



Center Cutter

Ø1 - 16 mm

Side Chamfer



Back Chamfer



Ball Cutter

Ø8 - 25 mm



U Drill

SPMG - Insert

2XD - 3XD - 4XD - 5XD

Ø12mm to 55 mm

Modular Vice

MV 200/300



HMC Vice

LC 125/Titan SC 125



Gripp Clamping

Titan SC 125



Gripp Accessories

Titan SC 125



Self Centric Vice

SCV 125/225



Wedge Clamp



CLAMPING DEVICE
gmt ALLMATIC
Spannsysteme

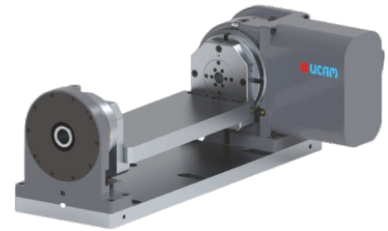
CNC Rotary Table

- # Size from Ø 180 mm / Ø 200 mm / Ø 250 mm / Ø 320 mm
- # Pneumatic / Hydraulic Clamping
- # Preloaded Axial Radial Roller Bearing
- # Gear Mechanism - Motor to Worm Shaft
- # Dual Lead Worm Gear Technology
- # Higher Clamping Torque
- # Vertical Mounting
- # Option Available with Vertical / Horizontal Mounting



Rotary Production System

- # Size from Ø 200 mm / Ø 250 mm / Ø 320 mm
- # Modular Concept Design
- # Pneumatic / Hydraulic Clamping
- # Indexing Accuracy $\pm 15''$
- # Drop in Rotary Union for Power Clamp
- # Clamps can be used without Plumbing



CNC Tilting Rotary Table

- # Size from Ø 150 mm Ø 200 mm / Ø 250 mm / Ø 320 mm
- # High grade CI Construction
- # Pneumatic / Hydraulic Clamping
- # Pre-loaded Axial Radial Roller Bearing
- # Dual Lead Worm Gear Set



Turning Machine



TL 160L

TL 160T

Swing Over Bed	mm	Ø390	Ø390
Max. Turning Dia. (upto)	mm	100*	200
Standard Turning Dia.	mm	100	140
Max. Turning Length (with Chuck)	mm	200	200
Chuck Size	mm	Ø160	Ø160
Spindle Nose	--	A2-5"	A2-5"
Spindle Power	Kw	3.7/5.5; 5.5 / 7.5; 7/9	
Rapid Traverses X & Z	M/Min.	30 (36)	30 (36)
T.S. Quill Dia. / Stroke	mm	--	70 / 70
Turret Size (Model)	BTP	--	63
CNC System	Make	Fanuc / Siemens / Mitsubishi	

TL 200

TL 2

Swing Over Bed	mm	Ø400	Ø490
Max. Turning Dia. (upto)	mm	260	320
Standard Turning Dia.	mm	160	240
Max. Turning Length (Chuck)	mm	258 (300)	435
Chuck Size	mm	Ø210 / Ø160	Ø210
Spindle Nose	--	A2-5"	A2-6"
Spindle Power	Kw	5.5 / 7.5 (7/9)	
Rapid Traverses X & Z	M/Min.	30(36)	30(36)
T.S. Quill Dia. / Stroke	mm	70 / 100	70 / 100
Turret Size (Model)	BTP	80	80
CNC System	Make	Fanuc / Siemens / Mitsubishi	



Turning Machine



TL 20 20 MAX 20 MAX 500

Swing Over Bed	mm	Ø490	Ø490	Ø490
Max. Turning Dia. (upto)	mm	320	320	320
Standard Turning Dia.	mm	240	240	240
Max. Turning Length (Chuck)	mm	420	435	540
Chuck Size	mm	Ø210	Ø210	Ø210
Spindle Nose	--	A2-5"	A2-6"	A2-6"
Spindle Power	Kw	5.5 / 7.5; 7.5/11; 9/11; 11/15		
Rapid Traverses X & Z	M/Min.	30	30	30
T.S. Quill Dia. / Stroke	mm	70 / 100	70 / 100	70 / 100
Turret Size (Model)	BTP	80	80	80
CNC System	Make	Fanuc / Siemens		

TL 250 TL 250-H

Swing Over Bed	mm	Ø500	Ø500
Max. Turning Dia. (upto)	mm	400 (440)	440
Standard Turning Dia.	mm	220	220
Max. Turning Length (Chuck)	mm	540	500
Chuck Size	mm	Ø210(250)	Ø250
Spindle Nose	--	A2-6"	A2-8"
Spindle Power	Kw	7.5/11; 11/15; 12/16	
Rapid Traverses X & Z	M/Min.	24	24
T.S. Quill Dia. / Stroke	mm	70 / 100	70 / 100
Turret Size (Model)	BTP	80	80
CNC System	Make	Fanuc / Siemens	



Turning Machine



		TL30ER	ER800	ER1250	ER1600
Swing Over Bed	mm	Ø600	Ø600	Ø600	Ø600
Max. Turning Dia. (upto)	mm	450(500)	450(500)	450(500)	460(500)
Standard Turning Dia.	mm	310	310	310	310
Max. Turning Length (Chuck)	mm	480	850	1200	1550
Chuck Size	mm	Ø304	Ø304	Ø304	Ø304
Spindle Nose	--	A2-8"	A2-8"	A2-8"	A2-8"
Spindle Power	Kw	11/15 (15/18), 12/16			
Rapid Traverses X & Z	M/Min.	20(30)	20(30)	20	20
T.S. Quill Dia. / Stroke	mm	90 / 120	90 / 120	120 / 120	120 / 120
Turret Size (Model)	BTP	100	100	100	100
CNC System	Make	Fanuc / Siemens			

		TL30EX800	EX1250	EX1600
Swing Over Bed	mm	Ø650	Ø650	Ø650
Max. Turning Dia. (upto)	mm	590	590	590
Standard Turning Dia.	mm	320	320	320
Max. Turning Length (Chuck)	mm	850(770)	1200	1530
Chuck Size	mm	Ø315(380)	Ø315(380)	Ø315(380)
Spindle Nose	--	A2-8"(A2-11)		
Spindle Power	Kw	15/18(18/22)		
Rapid Traverses X & Z	M/Min.	20	20	20
T.S. Quill Dia. / Stroke	mm	120/120		
Turret Size (Model)	BTP	100 (125)		
CNC System	Make	Fanuc / Siemens		



Vertical Turning Machine



VTL 550

VTL 750

Swing Over Bed	mm	Ø700	Ø800
Max. Turning Dia. (upto)	mm	550	750
Standard Turning Dia.	mm	500	600
Max. Turning Length (with Chuck)	mm	500	700
Chuck Size	mm	Ø400	Ø400(500/600)
Spindle Nose	--	A2-8"	A2-11"
Spindle Power	Kw	15/18 (18/22)	18/22 (22/26)
Rapid Traverses X & Z	M/Min.	20 / 20	20 / 20
T.S. Quill Dia. / Stroke	mm	--	--
Turret Size (Model)	BTP	125	125 (160)
CNC System	Make	Fanuc / Siemens	

Horizontal Machining Center



H550

X-Axis (Column movement)	mm	820
Y-Axis (Vertical Slide/Spindle movement)	mm	720
Z-Axis (Table movement)	mm	820
Pallet Size	mm	630 x 500
Max. Job Swing Dia.	mm	800
Spindle Power	kW	15/18.5 (18.5/22)
Cont. S1./S2.30 Min./S3 or S6 60%		
Spindle Speed - Standard (Option)	6000 (8000,10000,12000)	
Spindle Taper - Standard (Option)	BT 50 (HSK A100)	
Pallet Change Time	Sec	14
CNC System	Make	Fanuc OiMF

Vertical Machining Center



S7

Table Working Surface	mm	850 x 410
Max. Table Load	Kgs.	300
X - Axis Travel	mm	710
Y - Axis Travel	mm	400
Z - Axis Travel	mm	350
Max. Spindle Speed	RPM	12000
Spindle Taper	Type	BT 30
Spindle Motor Power	Kw	3.7/5.5
Rapid Traverses X / Y / Z	M/Min.	60/60/60
No. of Tools	No.	16 (21)
CNC System	Make	Fanuc / Siemens / Mitsubishi

		VML50	VM7	VM9
Table Working Surface	mm	800 x 400	900 x 400	1000 x 500
Max. Table Load	Kgs.	400	400	500
X - Axis Travel	mm	600	700	800
Y - Axis Travel	mm	420	420	500
Z - Axis Travel	mm	450	450	500
Max. Spindle Speed	RPM	8000 (10000)		
Spindle Taper	Type	BT 40		
Spindle Motor Power	Kw	7.5/11 (9/11, 11/15)		
Rapid Traverses X / Y / Z	M/Min.	30	36 (48)	36 (42)
No. of Tools	No.	20 (24)		
CNC System	Make	Fanuc / Siemens / Mitsubishi		



Vertical Machining Center



		VML800	VM10	VM11
Table Working Surface	mm	1000 x 500	1150 x 500	1250 x 600
Max. Table Load	Kgs.	600	700	900
X - Axis Travel	mm	810	1016	1016
Y - Axis Travel	mm	510	510	610
Z - Axis Travel	mm	500	500	600
Max. Spindle Speed	RPM	8000 (10000)		
Spindle Taper	Type	BT 40 (BT 50)		
Spindle Motor Power	Kw	7.5/11 (11/15, 12/16) 11/15(15/18)		
Rapid Traverses X / Y / Z	M/Min.	30 / 30 / 20		
No. of Tools	No.	20 (24, 30)		
CNC System	Make	Fanuc / Siemens / Mitsubishi		

		VML 1270	VM 1500	VML 1800
Table Working Surface	mm	1300 x 650	1800 x 650	2000 x 800
Max. Table Load	Kgs.	1200	2000	2500
X - Axis Travel	mm	1270	1500(1650)	1800
Y - Axis Travel	mm	700	700	810
Z - Axis Travel	mm	700	700	810
Max. Spindle Speed	RPM	8000 (10000)		
Spindle Taper	Type	BT 40 (BT 50)		
Spindle Motor Power	Kw	11/15; 15/18; 18/22		
Rapid Traverses X / Y / Z	M/Min.	30	20	20
No. of Tools	No.	20 (24, 30)		
CNC System	Make	Fanuc / Siemens / Mitsubishi		



Special Accessories



Zero Point System



Angel Head

Universal Head # Angle Head # BT 40, BT 50



Steady Rest

FAR



Barfeeder

Parts



CNC Hydraulic Chuck 3 Jaws & 4 Jaws

Size in mm : 165 / 200 / 250 / 300



ER Spanner & Nut

ER16 / ER20 / ER25 / ER32 / ER40

M Type / A Type / C Type / UM Type Spanners



Locking Device

BT 30, BT 40, BT 50

HSK



Collet

ER11 / ER16 / ER20 / ER25 / ER32 / ER40

Standard & Precision Collet

ERT (Tapping) / Sealed Collects



Pull Stud

BT / SK / CAT



Sim

Sim Pin

Screw Echain Sim

Top Clamp

T - Type Spanner

(T6 - T8, T10, T15, T20)

Clamping Kit



M12 x 16 | # M12 x 18 | # M16 x 18

Tool Trolley



KE - 1

KE - 2

Probes



3D Datum Finder

Optical Surface Measurement Wireless Probe

Auto Tool Setter

Oil Skimmer with Impeller



Tramp Oil Removal & Coolant Circulation



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