

MACHINE TOOL LINE-UP

TOSHIBA MACHINE

Best Partner of Leading Industries

TOSHIBA MACHINE

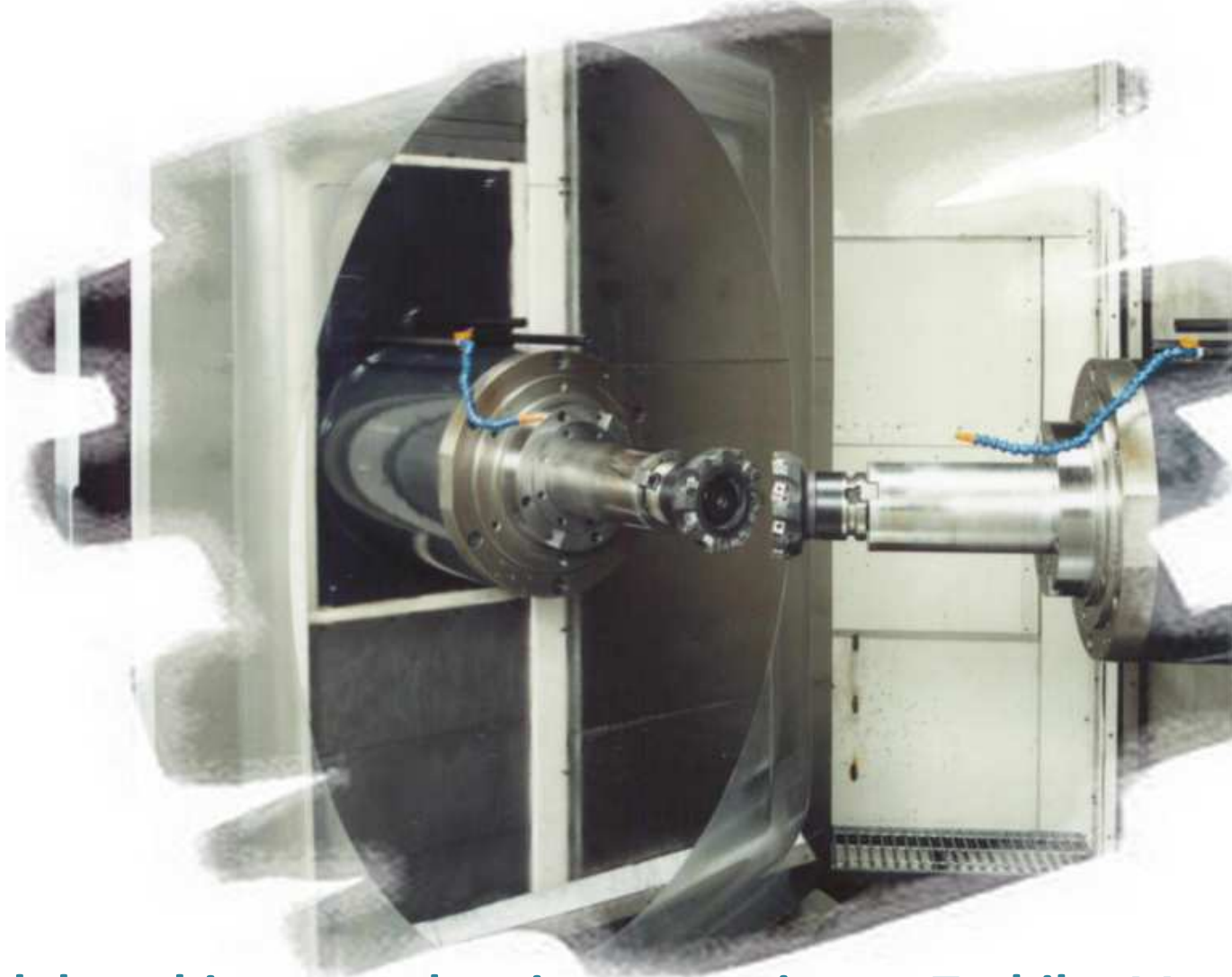
Best Partner of Leading Industries

Our machine tools produce components for key manufacturing industries worldwide.

The Machine Tool Products of TOSHIBA MACHINE manufactures the key parts of various equipment and devices related to the environmental sustainability and the environmental conservation high-quality and efficiently.



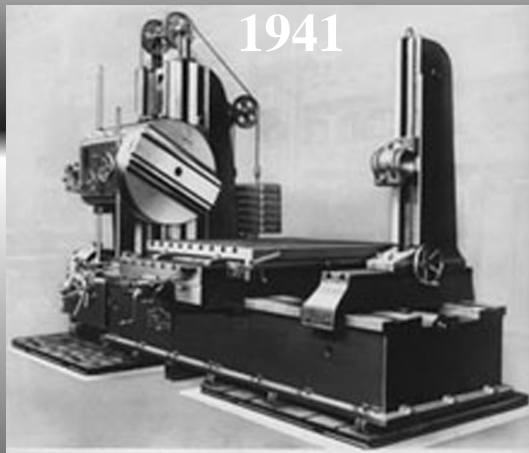
HBM LINE-UP



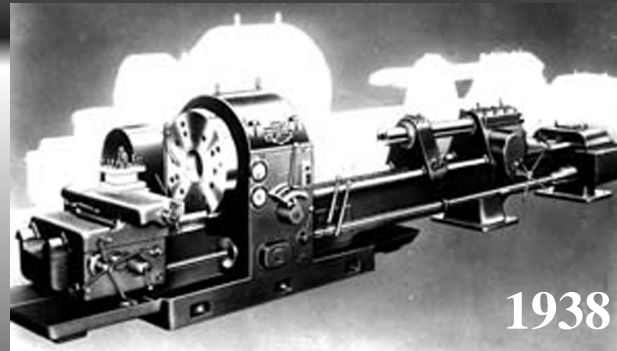
With long history and various experience, Toshiba Machine's
Horizontal Boring & Milling Machines

TOSHIBA MACHINE

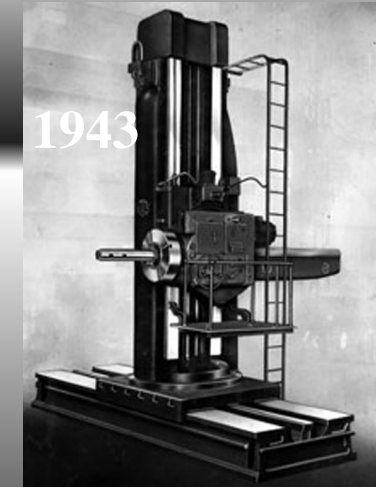
HISTORY



1941

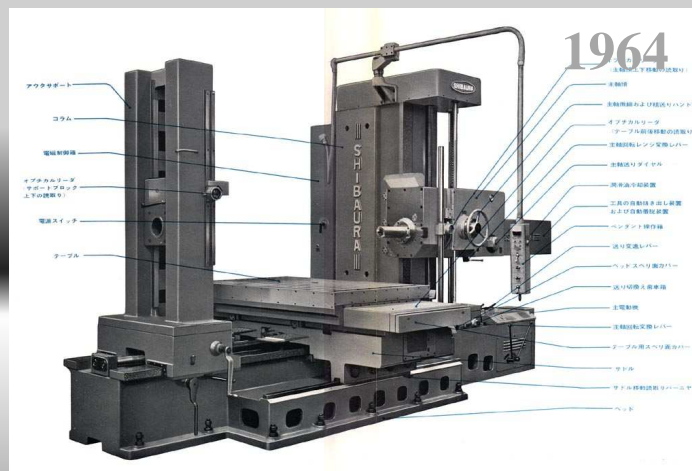


1938

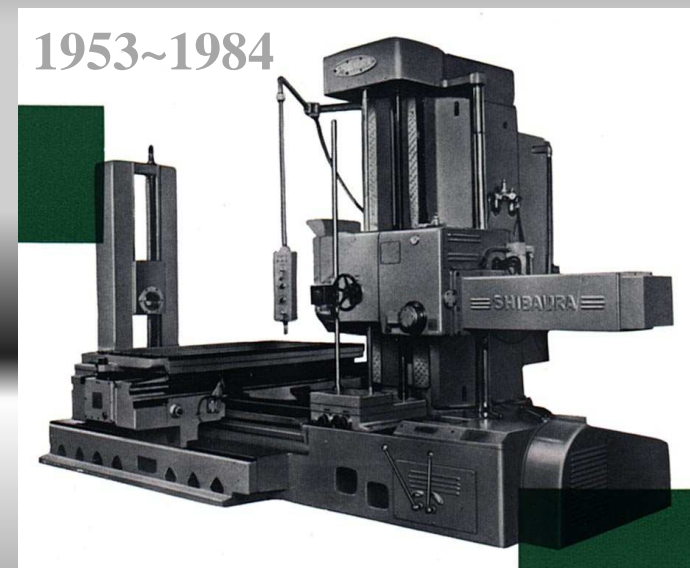


1943

With long history and various experience, Toshiba Machine's Horizontal Boring & Milling Machines



1964



1953~1984

TOSHIBA MACHINE



BTD SERIES



BTH SERIES

TOSHIBA MACHINE



BP SERIES



BF/BSF
SERIES

BTD-200QH



**BEST
SMALL HBM
IN MARKET**

Main machine specifications (standard)				BTD-200QH	
				Standard	with APC
Travel	X-axis travel (Cross movement of table)	mm (in)		1 500 (59)	
	Y-axis travel (Vertical movement of spindle head)	mm (in)		1 200 (47.2)	1 000 (39.3)
	Z-axis travel (Longitudinal movement of table)	mm (in)		700 (27.5)	
	W-axis travel (Quill extension)	mm (in)		400 (15.7)	
	Distance from table surface to spindle centerline	mm (in)		0~1 200 (0~47.2)	
	Distance from table centerline to spindle gage plane	mm (in)		450~1 150 (17.7~45.2)	
Table	Table working surface	mm (in)		1 000×1 200 (39.3×47.2)	
	Table loading capacity	kg (lbs)		4 000 (8 800)	3 500 (7 700)
	Table surface configuration (Pitch of T-slots: 160 mm)	mm (in)		6 T-slots, size 22, pitch 160 (size 0.86, pitch 6.2)	
	Minimum table indexing angle	deg		0.0001°	
Spindle	Rotating spindle diameter	mm (in)		110 (4.9)	
	Extended quill diameter	mm (in)		200 (7.8)	
	Spindle speed	min ⁻¹		20~3 000 [15~5 000]	
	Number of spindle speed ranges			1 range [2 ranges]	
	Type of spindle taper hole			7/24 taper No.50	
Feedrate	Spindle bearing inner diameter	mm (in)		110 (4.9)	
	Rapid traverse rate	X,Y,Z	mm/min (ipm)	12 000 (472.4)	
		W	mm/min (ipm)	5 000 (196.8)	
		B	deg/min	1 080	
	Feedrate	X,Y,Z	mm/min (ipm)	1~6 000 (0.039~236.2)	

TOSHIBA MACHINE



BTD SERIES

**BEST
SELLER HBM
IN MARKET**

Machine Specifications		BTD-110H.R16
Travel		
X-axis travel (Cross movement of table)	mm (in)	2 000 (78.7)
Y-axis travel (Vertical movement of spindle head)	mm (in)	1 500 (59.1)
Z-axis travel (Longitudinal movement of table)	mm (in)	1 450 (57.1)
W-axis travel (Spindle extension)	mm (in)	500 (19.7)
Distance from table surface to spindle center	mm (in)	0~1 500 (59.1)
Distance from table center to milling spindle gauge plane	mm (in)	550~2 000
Table		
Table working surface	mm (in)	1 400 x 1 600 (55.1x63)
Table loading capacity	kg (lbs)	6 300 (13 860)
Table surface configuration(Pitch of T-slots 160mm,size22mm)		9T-slots
Spindle		
Spindle diameter	mm (in)	110 (4.3)
Spindle speed range	min ⁻¹	5~3 000
Feedrate		
Rapid traverse rate	X,Y, Z	mm/min (ipm) 12 000 (472.4)
	W	mm/min (ipm) 5 000 (196.9)
	B	deg/min 720
Feedrate	X,Y, Z	mm/min (ipm) 1 ~6 000 (0.04~236.2)
Automatic tool changer (ATC)		
Type of tool shank		MAS BT50
Tool storage capacity		38 (60, 90, 120)
Spindle drive motor		
(30min./cont.rating)	kW (HP)	AC15/11 (AC20/15)
Machine size		
Machine height	mm (in)	4 000 (157.5)
Floor space	mm (in)	5 130 x 6 310 (202x248.4)
Mass of machine (including NC equipment)	kg (lbs)	28 000 (61 600)

TOSHIBA MACHINE

OUR SOLUTION OF LARGE PART MACHINING

MACHINE SPECIFICATIONS				BP-130•R22	BP150•R22
TRAVEL	X-axis travel (Cross movement of table)	mm (in)		4 640 (160)	
	Y-axis travel (Vertical movement of spindle head)	mm (in)		2 540 (100)	
	Z-axis travel (Longitudinal movement of table)	mm (in)		1 524 (60)	
	W-axis travel (Spindle extension)	mm (in)		711 (28)	
	Distance from table surface to spindle center	mm (in)		0 to 2 540 (0 to 100)	
	Distance from table center to milling spindle gage plane	mm (in)		812.8 to 2336.8 (32 to 92)	609.6 to 2133.6 (24 to 84)
TABLE	Table working surface	mm (in)		1 800 x 2 200 (70.8 x 86.8)	
	Table loading capacity	kg (lbs)		20 000 (44,000)	
	Table surface configuration	mm		11 T-slots, size 22	
	Pitch of T-slots 160mm (6.3in)	(in)		(11 T-slots, size 0.87)	
	Minimum table indexing angle (B-axis)	degree		0.0001	
SPINDLE	Spindle diameter	mm (in)		130 (5.1)	150 (5.9)
	Spindle speed range	min ⁻¹		5 to 2 500	
	Milling spindle nose diameter	mm (in)		250 (9.8)	
	Type of spindle taper holder			ISO 50	
FEEDRATE	Rapid traverse rate	X, Y, Z	mm/min (ipm)	10 000 (393)	
		W	mm/min (ipm)	5 000 (196)	
		B	deg/min	500	
	Feedrate	X, Y, Z	mm/min (ipm)	1 to 6 000 (0.04 to 236.2)	



BP SERIES

TOSHIBA MACHINE

BTH SERIES

**HIGH-RIGIDITY HIGH-
ACCURACY
HIGH-SPEED**



Main specifications				BTH-130.R24	
Travel	X-axis traverse (Cross movement of table)	mm [in]		3 000 [118]	
	Y-axis traverse (Vertical movement of spindle head)	mm [in]		2 300 [90.5]	
	Z-axis traverse (Longitudinal movement of table)	mm [in]		1 500 (60)	
	W-axis traverse (Spindle extension)	mm [in]		700 (28)	
	Distance from table surface to spindle center	mm [in]		900 to 2 400 (35.4 to 95.4)	
	Distance from table center to milling spindle gauge plane	mm [in]		0 to 2 300 [0 to 90.5]	
Table	Table working surface	mm [in]		2 000 x 2 400 [78.7 x 94.4]	
	Table loading capacity	kg [lbs]		20 000 [44 000]	
	Table surface configuration	mm [in]		9-Tslot, size 22, pitch 160[size 0.86, pitch 6.2]	
Spindle	Spindle diameter	mm [in]		130 [5.1]	
	Spindle speed range (op)	min ⁻¹		5 to 2 500 (6 to 4 000)	
Feedrate	Rapid feed rate	X,Y,Z	mm/min [ipm]	14 000 [551.1]	
		W	mm/min [ipm]	5 000 [196.8]	
		B	deg/min	500	
	Feedrate		mm/min [ipm]	1 to 7 000 [0.04 to 275.5]	
Automatic tool changer	Type of tool shank			MAS BT50	
	Tool storage capacity			38	
Spindle drive motor	(30min./cont.rating)		kW [HP]	AC22/18.5 [AC30/25] (AC30/22[AC40/30])	
Machine size	Machine height	mm [in]		5 060 [199.2]	
	Floor space	mm [in]		7 250 x 6 950 [285.4 x 273.6]	
	Mass of machine (including NC equipment)	kg [lbs]		45 000 [99 000]	
Accuracy	Positioning accuracy	X,Y,Z	mm [in]	±0.016 [±0.00063] per full length	
		W	mm [in]	±0.012 [±0.00047] per full length	
	Repeatability	X,Y,Z	mm [in]	±0.007 [±0.00027]	
		W	mm [in]	±0.008 [±0.00031]	
Machine color	Exterior painting (Urethane)			R4-383 (Munsell 5Y8.4/0.5) N2.5	

TOSHIBA MACHINE

BF/BSF SERIES

FLOOR TYPE HBM
FOR EXTRA-LARGE
PARTS



Angle head



Facing head



Universal head



TOSHIBA MACHINE

HMC LINE-UP

BMC series



BMC-1000(5)



BM-U series

With long history and various experience, Stable, powerful and precise, Toshiba Machine's Horizontal Machining Centre

TOSHIBA MACHINE

BMC series

Horizontal Machining centre for heavy duty cutting



Machine specification		BMC-800	BMC-1000
Travel	X-axis travel Pallet cross	1250mm	1600mm
	Y-axis travel S; spindle head vertical	1000mm	1250mm
	Z-axis travel Column longitudinal	900mm	1200mm
	Distance from spindle centre to table top	75 to 1075mm	75 to 1325mm
	Distance from spindle nose to table centre	200 to 1100mm	200 to 1400mm
Pallet	Pallet size	800x800mm	1000x1000mm
	Pallet loading capacity	2000kg	2500kg
	Pallet surface	24-M16 Tap	36-M20 Tap
	Pallet indexing	Every one degree	Every one degree
Spindle	Spindle speed	15 to 5000rpm	15 to 5000rpm
	Spindle speed range	2 steps	2 steps
	Type of spindle taper hole	ISO NO.50 taper	ISO NO.50 taper
	Spindle bearing inner diameter	100mm	100mm
	Spindle drive motor	AC 22/18.5kW	AC 22/18.5 kW

TOSHIBA MACHINE

BMC-1000(5)

Horizontal Machining Centre with 5-axis machining



Machine specification			BMC-1000(5)
Travel	X-axis travel	Pallet cross	1500mm
	Y-axis travel	S; spindle head vertical	1500mm
	Z-axis travel	Column longitudinal	1250mm
	A-axis	Tilting angle (Tilting angle of pallet)	10 to -100 degree
	B-axis	Rotating angle (Rotating angle of pallet)	360 degree
	Pallet horizontal (A=0 degree)		
		Distance from pallet surface to spindle centre (Y)	-550 to +950mm
		Distance from pallet centre to spindle gauge line (Z)	250 to 1500mm
	Pallet vertical (A=-90 degree)		
		Distance from pallet surface to spindle centre (Y)	-550 to +950mm
		Distance from pallet centre to spindle gauge line (Z)	50 to 1300mm
Pallet	Pallet size		1000x1000mm
	Pallet loading capacity		
		Pallet horizontal	2500kg
		Loading moment (Pallet tilted)	4900 N-m
	Pallet surface		36-M20 tap
	Locating method of work piece		Edge-locator
Spindle	Spindle speed range		15 to 5000 rpm
	Type of spindle taper hole		7/24 taper NO.50
	Spindle drive motor		22/18.5 kW
	Optional feature for heavy duty cutting		30/22kW

TOSHIBA MACHINE

NEW

BM-series

Horizontal Machining Centre with 5-axis machining

BM-U series



Main Specifications			BM Series		
			800	1000 Basic	1250
Travel	X-axis travel (Longitudinal)	mm	1 800		
	Y-axis travel (Vertical)	mm	1 600		
	Z-axis travel (Cross)	mm	1 600		
	W-axis travel (Cross)	mm	300		
Pallet	Pallet working surface	mm	800×1 000	1 000×1 000	1 250×1 250
	Pallet loading capacity	kg	3 000		
	Minimum table indexing	deg	1 (sequence:0.001)		
Spindle	Spindle speed	min ⁻¹	20 ~ 10 000		
Motor	Spindle drive	Kw	AC 30/22		

TOSHIBA MACHINE

VTL LINE-UP

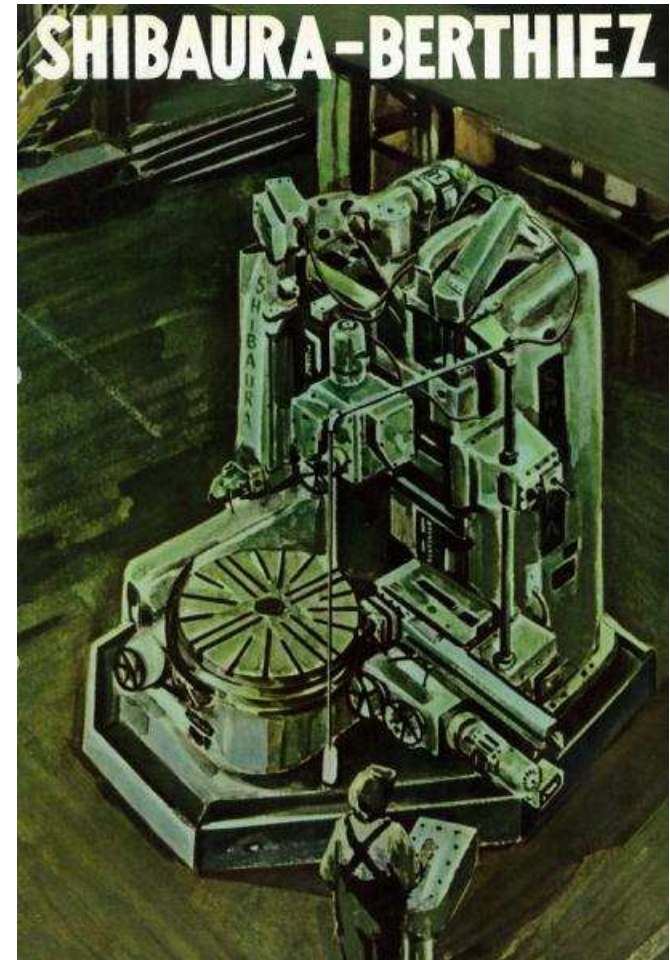
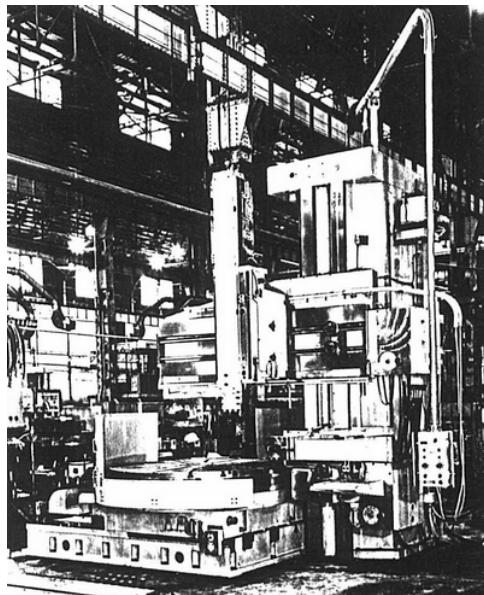


Toshiba Machine's wide line-up of Vertical Boring and Turning Mills is provided to satisfy various needs of machining.

TOSHIBA MACHINE

TOSHIBA MACHINE VTL LINE-UP

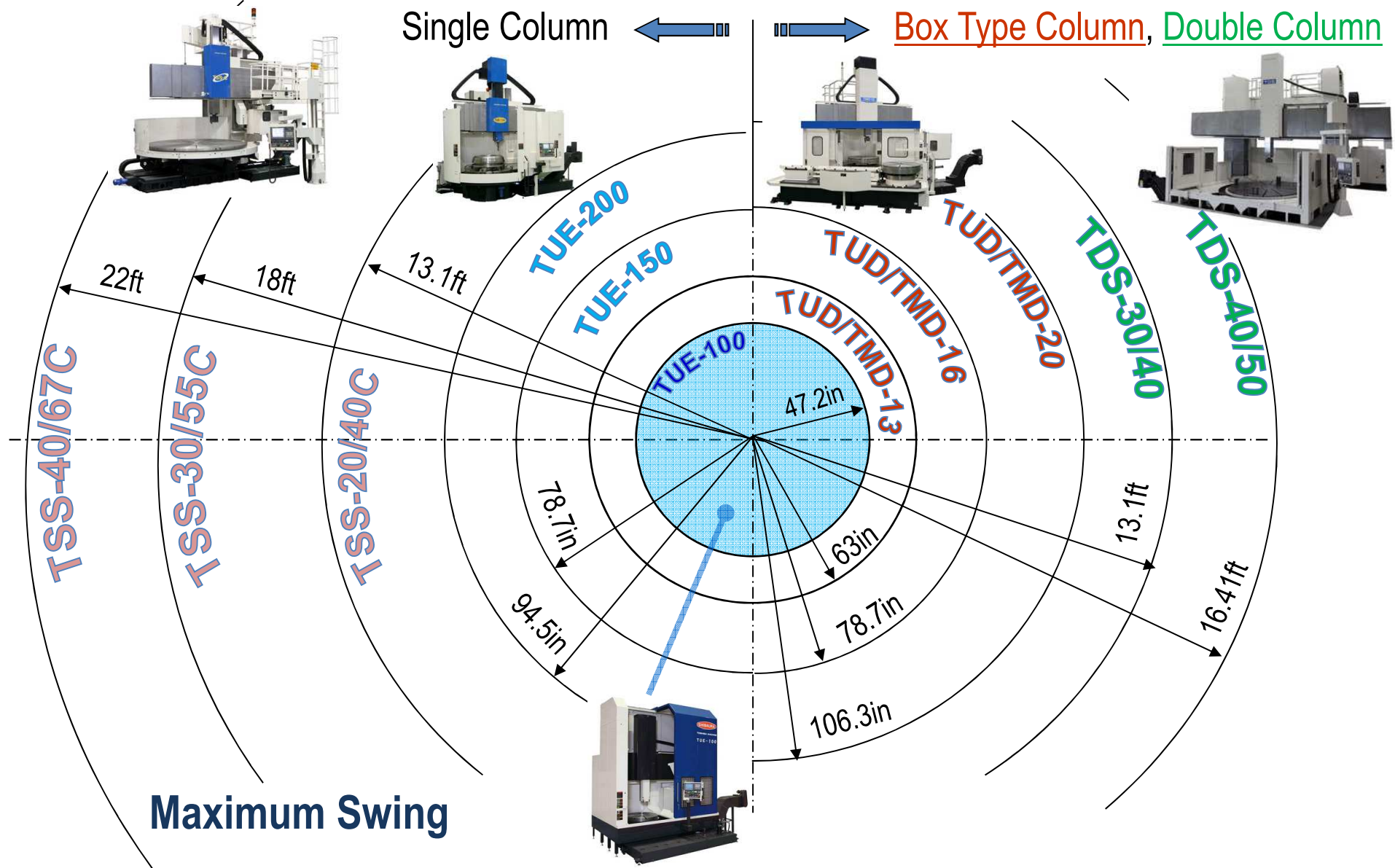
In 1955 BERTHIEZ's technical cooperation
(**Shibaura Engineering Works Co., Ltd.** at the time)
since **2600** VTL machines about making experience
and **60** years of tradition.



Wide range of machining

TOSHIBA MACHINE

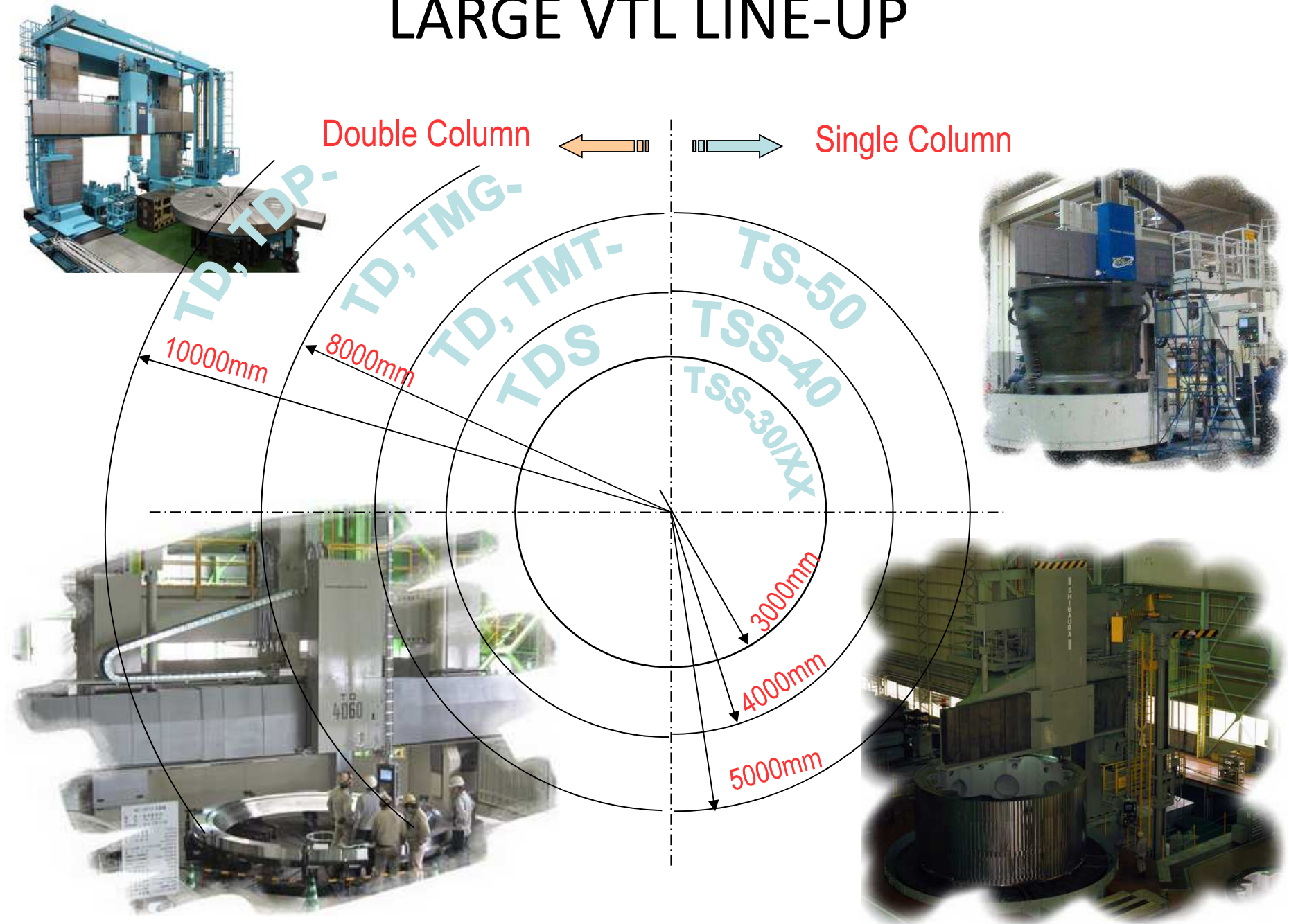
VTL LINE-UP



Wide range of machining

TOSHIBA MACHINE

LARGE VTL LINE-UP





TUE SERIES



TDS SERIES

TOSHIBA MACHINE



TUD/TMD
SERIES



TSS-C
SERIES



TUE 100

NEW VTL IN MARKET

Full- enclosure
for
high-pressure
coolant

Machine specifications (Standard)				TUE-100
Capability and capacity	Table diameter		mm[in]	1 016 [40.0]
	Maximum swing		mm[in]	1 200 [47.2]
	Maximum height from table top to ram bottom		mm[in]	1 055 [41.5]
	Maximum cutting height		mm[in]	850 [33.4]
	Maximum cutting diameter		mm[in]	1 200 [47.2]
	Maximum cutting force of ram		N[lbf]	19 600 [4 406]
	Maximum load on table		kg[lb]	2 000 [4 400]
Travel	Horizontal travel of rail head(X-axis)		mm[in]	-510 ~ 750 [-20.0 ~ 29.5]
	Vertical travel of ram(Z-axis)		mm[in]	800 [31.4]
Table	Rotation speed(2 ranges)	Low	min ⁻¹	2 ~ 150
		High	min ⁻¹	8 ~ 600
	Maximum torque		N・m[lbf・ft]	
Feed rate	Rapid traverse rate of rail head		m/min[ipm]	15 [590.5]
	Rapid traverse rate of ram		m/min[ipm]	12 [472.4]
	Feed rate		mm/min[ipm]	1 ~ 2 000 [0.04 ~ 78.7]
Ram	Type			Automatic tool clamp
	Guideways			Dual parallel
	Section	mm[in]	250 x 230 [9.84x9.06]	
Tool	Type of tool shank			7/24 taper No.50
	Type of retention knob			JIS 50 PU
	Automatic tool changer (ATC)			Tool storage capacity : 12 tools

TOSHIBA MACHINE



TUE SERIES

BEST SELLER VTL IN MARKET

Main specifications		TUE-150	TUE-200
Table diameter	mm(in)	1450(57.09)	2000(78.74)
Maximum swing	mm(in)	2000(78.74)	2400(94.09)
Maximum cutting height	mm(in)	1550(67.72)	
Maximum table load	kg(lb)	8000(17600)	15000(33070)
Vertical travel of ram	mm(in)	900(35.43)	
Table speeds	min ⁻¹ (rpm)	2-400 (Low : 2~100 High : 8~400)	2-240 (Low : 2~60 High : 8~240)
Table drive motor	kW(HP)	45 / 37(60 / 50)	

TOSHIBA MACHINE

TOSHIBA MACHINE

Machine Specifications		TSS-30/55C(S)	TSS-40/67C(S)
Table diameter	mm [in]	3 000 [118.1]	4 000 [157.48"]
Maximum swing	mm [in]	5 500 [216.5]	6 700 [263.78"]
Maximum cutting height	mm [in]	2 200 [86.6]	2 600 [102.36"]
Maximum load on table	kg [lb]	20 000 [44 092]	25 000 [55115lb]
Maximum cutting force on ram	N [lbf]	30 000 [6 744]	30 000 [66138lbf]
Horizontal travel of rail head (X-axis)	mm [in]	2 150 [84.6]	2 450 [96.46"]
Vertical travel of ram (Z-axis)	mm [in]	1 500 [59.0]	
Table speed	min ⁻¹	2~80	
Maximum table torque	N·m [lbf-ft]	45 785 [33 771]	
Spindle speed	min ⁻¹	15~1 500	
Maximum spindle torque	N·m [lbf-ft]	350 [258]	
Ram Type		Closed type	
Ram Sectional dimensions	mm [in]	250 x 250 [9.84 x 9.84]	

UNIQUE SINGLE
COLUMN FOR LARGE
PARTS
TSS-C SERIES



TOSHIBA MACHINE



LONG SELLER, 2-axis VTL
HIGH SPEC, RELIABILITY

TUD SERIES

Machine Specifications		Unit	TUD-13	TUD-16	TUD-20
Table Diameter		mm(in)	1,250(49.2)	1,600(63.0)	2,000(78.7)
Max. Swing		mm(in)	1,600(63.0)	2,000(78.7)	2,700(106.3)
Max. height from table top to ram bottom	Without APC	mm(in)	1,300(51.2)	1,550(61.0)	1,800(70.9)
	With APC	mm(in)	1,100(43.3)	1,350(51.2)	1,550(61.0)
Max. cutting height	Without APC	mm(in)	1,100(43.3)	1,350(53.1)	1,600(63.0)
	With APC	mm(in)	900(35.4)	1,150(45.3)	1,350(53.1)
Maximum cutting force of ram		N (lbf)	24,500 (5,500)	24,500 (5,500)	24,500 (5,500)
Table load on table	on the Machine	Kg(lb)	8,000 (17,600)	10,000 (22,000)	15,000 (33,000)
	on the APC	kg(lb)	4,000 (8,800)	5,000 (11,000)	7,000 (15,400)
Horizontal travel of rail head	X-axis	mm(in)	-630 to 920	805 to 1,120	-1005 to 1,370
			(-24.8 to 36.2)	(31.7 to 44.1)	(-39.6 to 53.9)
Vertical travel of ram	Z-axis	mm(in)	800(31.5)	800(31.5)	1,050(41.3)
Vertical travel of crossrail		mm(in)	500 (19.7)	500 (19.7)	750 (29.5)
Table speeds		min-1 (rpm)	2 to 450	2 to 350	2 to 250
Maximum table torque		N-m (ft-lbf)	16,775	23,065	33,100
			(12,370)	(17,010)	(24,410)

TOSHIBA MACHINE

LONG SELLER TURNING CENTRE HIGH SPEC, RELIABILITY



Machine Specifications		Unit	TMD-13	TMD-16	TMD-20
Table Diameter		mm(in)	1,250(49.2)	1,600(63.0)	2,000(78.7)
Max. Swing		mm(in)	1,600(63.0)	2,000(78.7)	2,700(106.3)
Max. height from table top to ram bottom	Without APC	mm(in)	1,300(51.2)	1,550(61.0)	1,800(70.9)
	With APC	mm(in)	1,100(43.3)	1,350(51.2)	1,550(61.0)
Max. cutting height	Without APC	mm(in)	1,100(43.3)	1,350(53.1)	1,600(63.0)
	With APC	mm(in)	900(35.4)	1,150(45.3)	1,350(53.1)
Maximum cutting force of ram		N (lbf)	24,500 (5,500)	24,500 (5,500)	24,500 (5,500)
Table load on table	on the Machine	Kg(lb)	8,000 (17,600)	10,000 (22,000)	15,000 (33,000)
	on the APC	kg(lb)	4,000 (8,800)	5,000 (11,000)	7,000 (15,400)
Horizontal travel of rail head		mm(in)	-630 to 920	805 to 1,120	-1005 to 1,370
			(-24.8 to 36.2)	(31.7 to 44.1)	(-39.6 to 53.9)
Vertical travel of ram		mm(in)	800(31.5)	800(31.5)	1,050(41.3)
Vertical travel of crossrail		mm(in)	500 (19.7)	500 (19.7)	750 (29.5)
Table speeds		min-1 (rpm)	2 to 450	2 to 350	1 to 250
Maximum table torque		N-m (ft-lbf)	16,775	23,065	33,100
			(12,370)	(17,010)	(24,410)
Spindle speed		min-1	25 to 3,000	25 to 3,000	25 to 3,000
Maximum spindle torque		N-m(ft-lbf)	420	420	420
			(310)	(310)	(310)

TMD SERIES

TOSHIBA MACHINE

DOUBLE COLUMN FOR LARGE PARTS



	Unit	TDS-30/40 (S)	TDS-40/50 (S)
Table Diameter	mm(in)	3 000 (118.11)	4 000 (157.48)
Max. Swing	mm(in)	4 000 (157.48)	5 000 (196.85)
Max. cutting height	mm(in)	2 500 (98.4259)	2 750 (108.268)
Table loading capacity	Kg(lb)	30 000 (13 608)	30 000 (13 608)
Table speed	min-1	150	100
C-axis Motor		servo	servo
C-axis scale		standard	standard
Spindle speed	min-1	3 000	3 000
Cross-rail Position		Step (250X8Pos.)	Step (250X8Pos.)
ATC		24 (48)	24 (48)
NC (FANUC)		FS 31i-B	FS 31i-B

TDS SERIES

DOUBLE COLUMN TYPE MACHINING CENTER

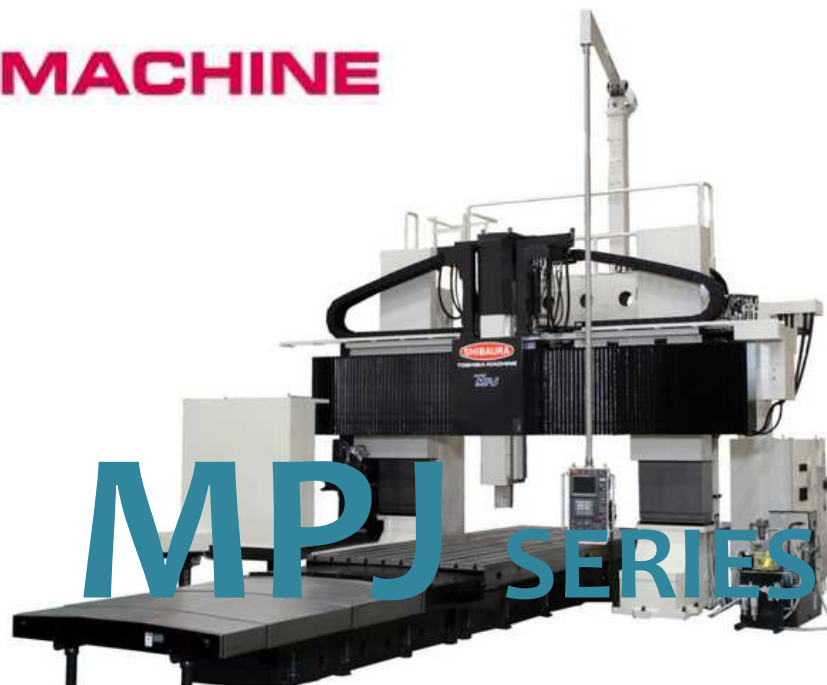


Double Column Type Machines as our mother machine provide suitable capability to make high-accuracy and large-sized components.

TOSHIBA MACHINE



TOSHIBA MACHINE





MPC-EII

SERIES

**HIGH SPEED &
HIGH
EFFICIENCY**

Machine Specifications				MPC-EII series					
Model				2140	2150	2640	2650	2660	3140
Travel	X-axis travel (table longitudinal direction)	mm(in)	4500(175.5)	5500(214.5)	4500(175.5)	5500(214.5)	6500(253.5)	4500(175.5)	
	Y-axis travel (spindle head crosswise direction)	mm(in)	2900(113.1)		3400(132.6)			3900(152.1)	
	Z-axis travel (ram vertical direction)	mm(in)	900(35.1)						
	W-axis travel (crossrail elevation)	mm (in)	1000(39.4)(5 positions available at 250mm(9.8in.)intervals) (1500(59)(7 positions available at 250mm(9.8in.)intervals))						
	Height (distance from table top face to vertical spindle nose)	mm(in)	1750(2250)(68.2(87.7))						
Distance between column (Maximum traversable distance for work piece)			2100(81.9)		2600(101.4)			3100(120.9)	
Table	Table working surface	mm (in)	1800x4000 (70.8x157.4)	1800x5000 (70.8x196.8)	2000x4000 (78.7x157.4)	2000x5000 (78.7x196.8)	2000x6000 (78.7x236.2)	2500x4000 (98.4x157.4)	
	Table loading capacity	kg(lbs)	20000(44000)			30000(66000)			
Spindle	Spindle Speed	min ⁻¹	30~4000(6000)						
	Number of spindle speed ranges		2						
	Spindle taper hole		7/24 taper No.50						
	Maximum spindle torque	N·m [kgf·m] (ft·lbf)	1528(156)(1158)						
	Spindle bearing inner diameter	mm(in)	100(3.9)						
	Cross section size	mm(in)	380x380(14.9x14.9)						
Feedrate	Rapid traverse	X/Y	mm/min(in/min)	25000(984)					
		Z	mm/min(in/min)	10000(393.7)					
		W	mm/min(in/min)	1000(39.3)					
	Feedrate	X/Y	mm/min(in/min)	1~10000(0.03~393.7)					
		Z	mm/min(in/min)	1~10000(0.03~393.7)					
ATC	Type of tool shank		MAS BT50						
	Type of retention knob		MAS P50T-1(45°)						
	Tool storage capacity	tools	36						
Machine size	Machine height	mm(in)	6490(6990)(255.5(275.1))						
	Floor space	mm (in)	6800x11000 (267.7x433)	6800x13100 (267.7x515.7)	7300x11100 (287.4x437)	7300x13100 (287.4x515.7)	7300x15100 (287.7x594.4)	7800x11100 (307x437)	
CNC system			TOSNUC 999						

Machine Specifications			MPC-EII series					
Model			3150	3160	3180	3650	3660	3680
travel	X-axis travel (table longitudinal direction)	mm(in)	5500(214.5)	6500(253.5)	8500(331.5)	5500(214.5)	6500(253.5)	9000(315.0)
	Y-axis travel (spindle head crosswise direction)	mm(in)	3900(152.1)			4400(171.6)		
	Height (distance from table top face to vertical spindle nose)	mm(in)	1750(2250) (1695(2195) In case of model 3180, 3680) (68.2(87.7) (66.1(85.6)))					
table	Table working surface	mm (in)	2500x5000 (98.4x196.8)	2500x6000 (98.4x236.2)	2700x8000 (106.2x315)	3100x5000 (122x196.8)	3100x6000 (122x236.2)	3100x8000 (122x315)
	Table loading capacity	kg(lbs)	30000(66000)		40000(88000)	30000(66000)		40000(88000)
Feedrate	Rapid traverse X,Y	mm/min(in/min)	20000(787.4)					
Machine size	Floor space	mm (in)	7800x13100 (307x515.7)	7800x15100 (307x594.4)	7800x19900 (307x783.4)	8300x13100 (326.7x515.7)	8300x15100 (326.7x594.4)	8300x19900 (326.7x783.4)

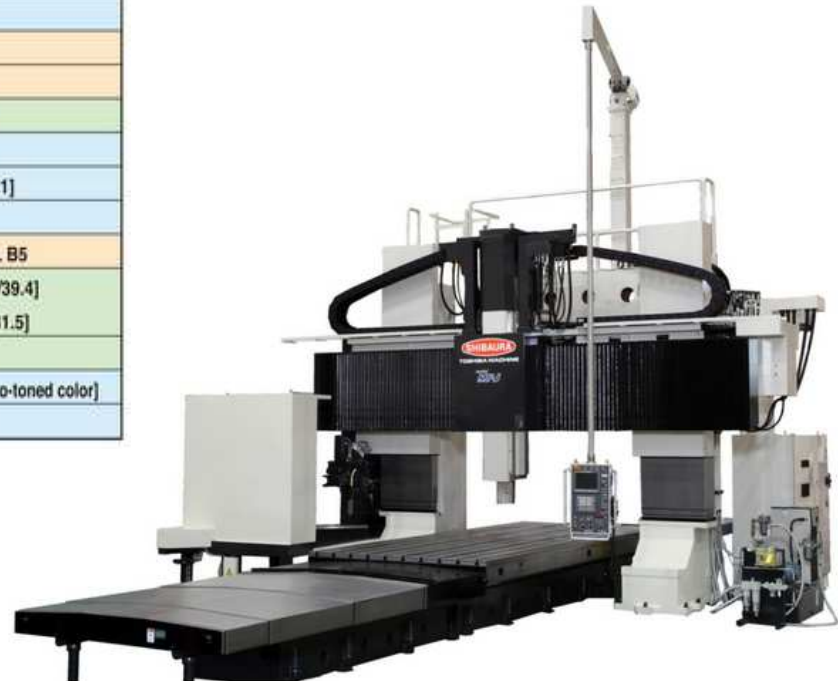
TOSHIBA MACHINE

TOSHIBA MACHINE

**FLEXIBILITY
SATISFYING
GLOBAL
DEMAND**

Machine specifications			MPJ-2650
Travel	X-axis travel (Longitudinal movement to table)	mm [in]	5 200 [204.7]
	Y-axis travel (Crosswise movement of spindle head)	mm [in]	3 000 [118.1]
	Z-axis travel (Vertical movement of ram)	mm [in]	800 [31.5]
	W-axis travel (Elevation of crossrail), 250 pitches at 5 positions	mm [in]	1 000 [39.4]
	Height (distance from table surface to vertical spindle gage plane)	mm [in]	1 850 [72.8]
	Distance between columns	mm [in]	2 600 [102.4]
Table	Table working surface	mm [in]	2 000×5 000 [78.7×196.9]
	Table loading capacity (Plain table type)	kg [lbs]	25 000 (55 000)
Spindle	Spindle speed range	min ⁻¹	30~4 000
	Type of spindle taper hole		7/24 taper No.50
	Maximum spindle torque	N·m [Ft·lb]	600 [442.9]
	Spindle bearing inner diameter	mm [in]	100 [3.9]
Spindle ram	Type		Open ram type
	Cross section size	mm [in]	380×380 [15×15]
Feedrate	Rapid traverse rate (X, Y, Z)	mm[in]/min	20 000 [787.4](X, Y) 10 000 [393.7](Z)
	Feedrate (X, Y, Z)	mm[in]/min	1~10 000 [0.04~393.7]
	Crossrail feedrate (W)	mm[in]/min	1 000 [39.4]
Tool	Type of tool shank		MAS BT50
	Type of retention knob		MAS P50T-1(45°)
Motor	Spindle drive motor (30-minute rating/cont.)	kW [hp]	AC30 [40]/22 [29.3]
Machine size	Machine height	mm [in]	6 473 [254.8]
	Floor space requirements	mm [in]	14 800×7 420 [582.7×292.1]
	Mass of machine	kg [lbs]	33 000 [72 600]
CNC system			FANUC Series 31i - MODEL B5
Accuracy	Positioning accuracy	mm [in]	X, Y-axis±0.007/1000 [±0.0003/39.4] Z-axis±0.006/800 [±0.0003/31.5]
	Repeatability	mm [in]	±0.003 [±0.0001]
Painting color	Machine exterior		R4-383 (Munsell 5Y8.4/0.5 and N2.5) [Two-toned color]
	Machine interior		Munsell10YR8/4

MPJ SERIES



MCW SERIES



UNIQUE
CROSS-RAIL
TRAVERSE

Major Specifications				MCW-4624
Travel	X-axis travel (crossrail longitudinal direction)		mm (in)	4 600 (Cutting3 500+ATC1 100)
	Y-axis travel (spindle head crosswise direction)		mm (in)	3 700 (145.7)
	Z-axis travel (ram vertical direction)		mm (in)	900 (35.4)
	Height (distance from table top surface to vertical spindle gage plane)		mm (in)	1 050 (41.3)
	Distance between columns (Maximum traversable clearance for work-piece)		mm (in)	4 580 (180.3)
Plate	Plate working surface		mm (in)	3 200 x 2 400 (126 x 94.5)
	Plate loading capacity		kg/m2 (psi)	10 000 (142 233)
Spindle	Spindle speed		min ⁻¹	30~4 000
	Spindle taper hole			7/24 taper No.50
	Maximum spindle torque		N·m	1 528
Spindle ram	Type			Ram type
	Cross-sectional size		mm(in)	380x380 (15x15)
Feedrate	Rapid traverse	(X/Y)	mm/min(ipm)	25 000 (975)
		(Z)	mm/min(ipm)	10 000 (390)
	Feedrate	(X/Y/Z)	mm/min(ipm)	1 ~10 000 (0.04~390)
Motor	Spindle motor (50%ED/continuous)		kW(HP)	AC30/22 (40/30)
Machine size	Machine height		mm(in)	4 905 (193.1)
	Floor space		mm(in)	7 900 x 8 932 (311 x 351.6)
	Mass of machine		kg(lbs)	50 000 (110 000)
CNC system				TOSNUC PX100

TOSHIBA MACHINE

TOSHIBA MACHINE

Machine Specifications		Unit	MP-2620(U)
Travel	X-axis travel (Longitudinal movement of table)	mm	2 500
	Y-axis travel (Cross movement of spindle head)	mm	3 400
	Z-axis travel (Vertical movement of ram)	mm	800
	W-axis travel (Vertical movement of crossrail)	mm	1 000 (250 pitches, 5 positions)
	C-axis travel (Table)	deg	360
	Height (Distance from table top surface to vertical spindle nose (Snout 240))	mm	1 785
	Distance between columns (Maximum width between columns where workpiece can go through)	mm	2 600
Table	Table diameter	mm	2 000
	Maximum load on table	kg	10 000
	Table speed	min ⁻¹	2~250
	Number of table speed ranges		2 ranges
	Maximum table torque	N·m	20 000 (2040kgf·m)
Spindle	Spindle speed range	min ⁻¹	40~10 000
	No. of spindle speed ranges		2 ranges
	Type of spindle taper hole		7/24 taper No.50
	Maximum spindle torque	N·m	722.7(73.7kgf·m)
	Spindle bearing bore	mm	100
Feedrate	Rapid traverse rate (DO NOT continue the rapid traverse rate operation for ten (10) minutes or over)	mm/min	X:40 000 (Table load: less than 3 000kg) :20 000 (Table load: more than 3 000kg) Y:40 000 (30m/min at both stroke end) Z:40 000 (Snout 240) :30 000 (Other attachment)
		deg/min	C:1 080 (3min ⁻¹)
	Feedrate	mm/min	X,Y,Z: 1-20 000
		deg/min	C:1-1 080 (3min ⁻¹)
Machine size	Machine height	mm	6 600
	Floor space	mm	8 500x10 000
	Mass of machine	kg	55 000



MP SERIES
MULTI-PURPOSE WITH
5-AXIS AND TURNING
TABLE

LARGE SIZE CUSTOMIZED MACHINE



Our large size machine tool products are called "MOTHER MACHINE".
A good partner for large-sized components

TOSHIBA MACHINE

Example 1

Large-size Plano Milling Machine

MPA-70265

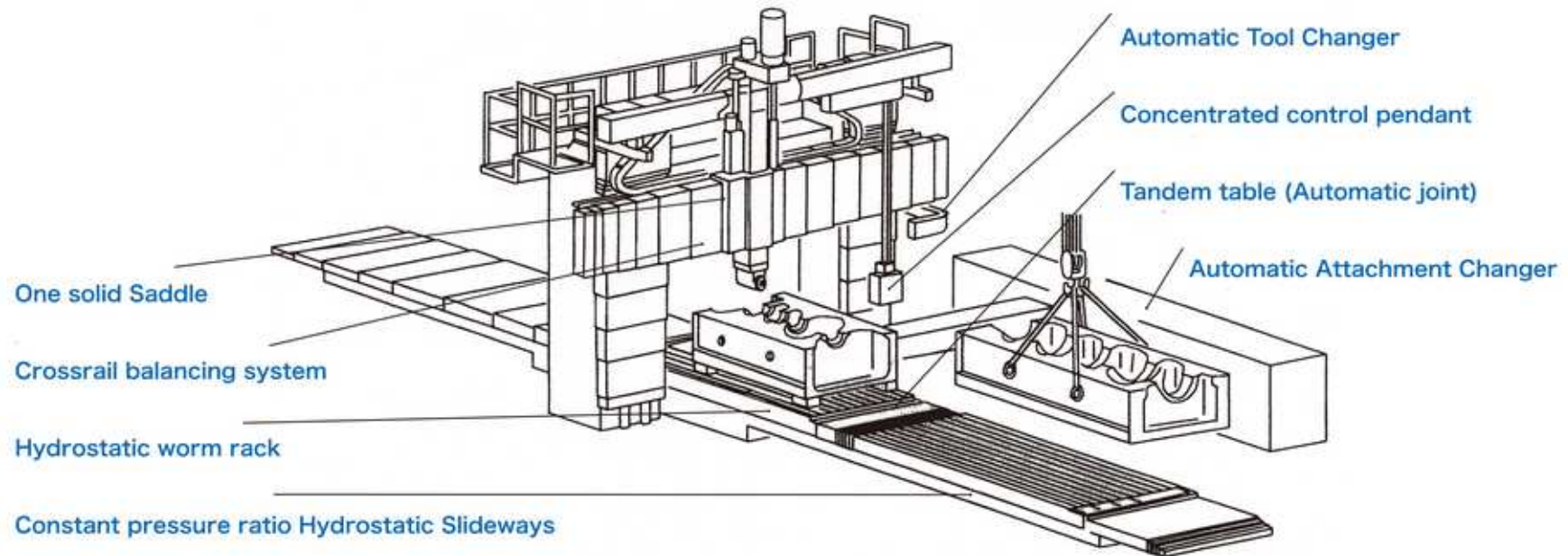


Table assembling



Adjusting



Completed



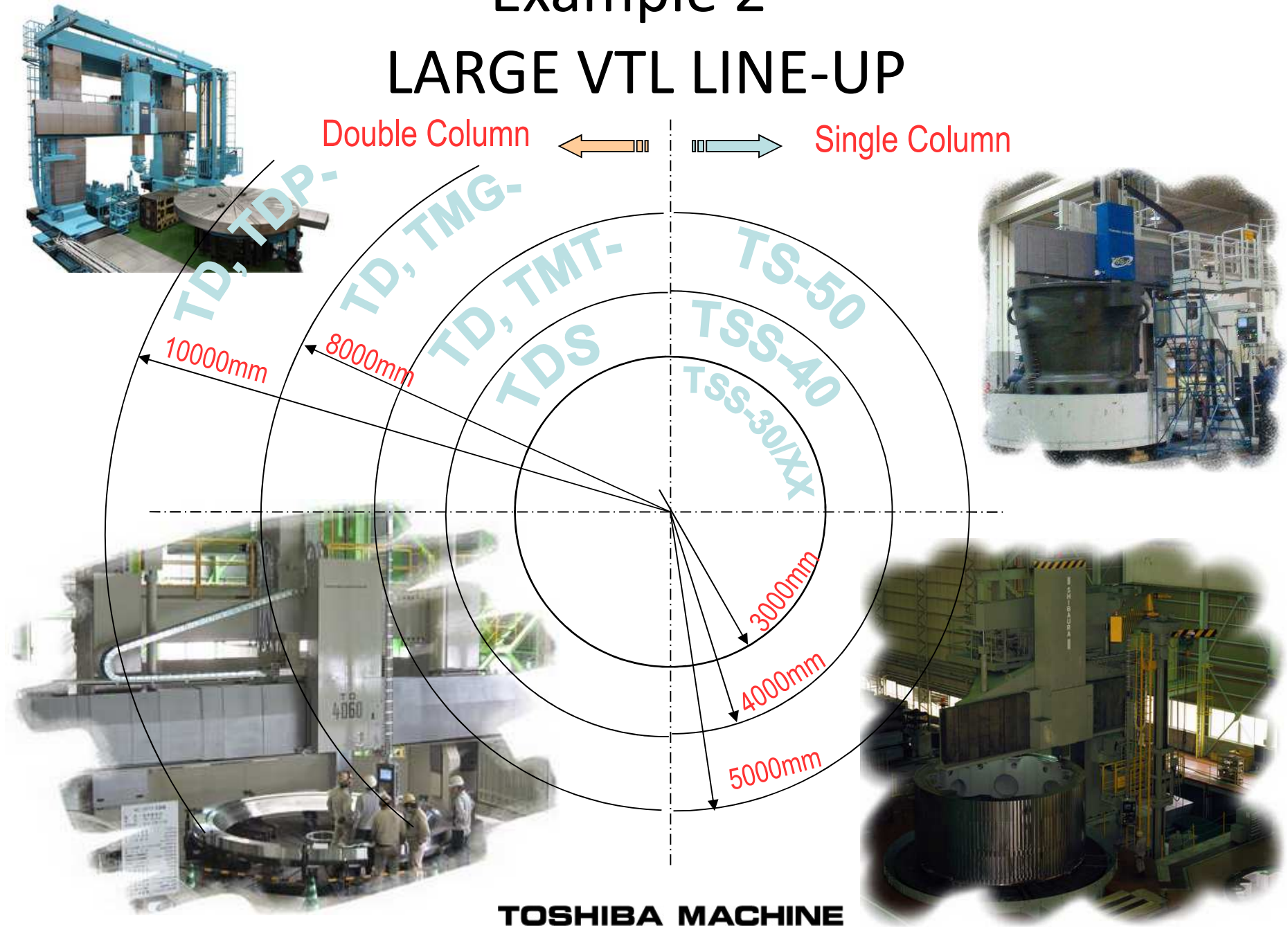
TOSHIBA MACHINE

K-M1105-6

Wide range of machining

Example 2

LARGE VTL LINE-UP



SHIBAURA

THANK YOU

TOSHIBA MACHINE

TOSHIBA MACHINE

Special arrangement for FMS line with TMD-13 & BMC-1000(5)

