



WELE MECHATRONIC CO., LTD

(http://www.welegroup.com)

HEADQUARTERS:

No.458, Shinsing Rd., Hukou Town, Hsin-Chu County 303, Taiwan TEL : +886-3-696-0360 (rep.) FAX : +886-3-696-0370

TAICHUNG BRANCH:

WELE MECHATRONIC (SU-ZHOU) CO., LTD.

No. 16, Fuhua Rd., Changshu Economic Development Zone, Changshu City, Jiangsu Province, China 215513 TEL : +86-512-5229-7868 FAX : +86-512-5229-7866 SALES: 150-5141-3969,150-5141-3981

DISTRIBUTOR





No.600, Sec. 4, Sanfeng Rd., Houli Dist., Taichung City 421, Taiwan TEL : +886-4-2558-0762 FAX : +886-4-2558-2334





Website



GENERAL





WELE Profile

(37%)

- Established: 2007 June 11
- Paid-in Capital: NT\$ 693M (US\$ 23.1M)
- Majoring Investor:
- JTEKT Co.,
- WELE Investment Co.,
- Managing Group, Employees (63%)
- President: Mr. Yong-Chang Kuan
- Certification: ISO9001, ISO14001, CE (TÜV Rheinland)
- Factory:
- Hsinchu Head Quater (17,500 m²)
- Taichung Branch (18,000 m²)
- Suzhou Factory, China (17,000m²)

Mile Stone

2007/06/11	"WELE Mechatronic Co., Ltd" registered by major shareholder, WELE Investment. The president, Mr. Yong-Chang Kuan, also as General Manager with paid-in capital of US\$ 2.8 million by WELE investment Co.
2007/07/03	WELE opened at No.53, Chung-Tai Rd., Chu-Pei city, Hsin-chu county, and registered WELE Logo as WELE
2007/10/27	WELE's Head quarter and Hsin-Chu factory had opening with total 103 employees at No.458, Shinsing Rd., Hukou town, Hsin-chu county.
2007/12/01	WELE Taichung #2 factory opened and established at No.206, Sec.1, Guofong Rd., Fong-Yuan Dist., Taichung City.
2008/01/16	WELE's President, Mr. Yong-Chang Kuan and JTEKT President, Mr. Motohiko Yokoyama both signed the cooperation agreement in the JTEKT headquarter in Nagoya, Japan.
2008/01/23	WELE first AA machining centers: AA1165 & AA1365, under TOYODA brand officially exhibited at Global Technical Fair by JTKET in Nagoya, Japan.
2008/01/31	WELE applied for capital increase to US\$ 24 million with paid-in capital US\$ 22 million. WELE investment Co. possess 60% stock ownership (US\$13.4 million) and JTEKT has 40% stock ownership (US\$ 8.6 million).
2009/03/03	UG550 won the Grand Champion Award in Research and Innovation at the category of Machining Center in TIMTOS 2009.
2011/03/02	WELE HB-430F, Horizontal Boring and Milling Machining Center won the Taiwan Machine Tools Industry Award 2011 for "Eminence Award" in Research and Innovation at Category of Machining Center.
	WELE VTC2500H, Vertical Multi-Tasking Turning Center won the Taiwan Machine Tools Industry Award 2011 for "Supreme Excellence Award" in Research and Innovation at all category.
2011/09/19	WELE firstly join the EMO Hannover 2011 (9/19 thru 9/24 2011) and exhibited the machines RB- 312 & UG800 as WELE brand.
2012/12/31	Reached to US\$ 90 million annual turnover.
2013/03/04	WELE Taichung Branch opens at No.356, Sanfeng Rd., Houli Dist., Taichung City.
2013/03/06	WELE MT-16, Bridge type Multi-Milling-Turning Center won the Taiwan Machine Tools Industry Award 2013 for "Supreme Excellence Award" in Research and Innovation at all category.
2013/09/16	WELE MT-16W attend EMO 2013 (09/16 thru 09/23) in Hannover, Germany.
2014/12/19	The new WELE Suzhou factory opens at No.16, Fuhua Rd., Changshu Economic Develop Zone, Changshu City, Jiangsu Province, Zip 215513, P.R. China.
2015/10/05	WELE firstly join the EMO Milano 2015 (5th to 10th October 2015) and exhibited the machines DL-321 as WELE brand.
2016/09/12	WELE attend IMTS in Chicago, USA.
2017/03/06	WELE Overseas Dealer Meeting & Openhouse.
2017/03/07	WELE attend TIMTOS in Taipei. (New models: DG-320U, HMC500, HL200YS)
2017/09/18	WELE attend EMO 2017 (09/18 thru 09/23) in Hannover, Germany.
2019/03/03	WELE Overseas Dealer Meeting and attended TIMTOS in Taipei and HMC630 was announced.
2019/09/16	WELE attended EMO (09/16-09/21) in Hannover, Germany and exhibits HMC630.
2020/03/17	Construction starting ceremony for Headquarter & Hsinchu factory.
2022/11/26	HMC500 + PPS C5 got the 2023 Taiwan Excellence Award.

Message from the President

WELE Mechatronic Co., Ltd. was founded and formed from the initial concepts of "The investors and labors cooperate together." & "Tolerating mutually is the way to grow." We keep our own philosophy to construct the foundation of our long term and continuous operational entrepreneur. WELE local shareholders own 64% share and accepts the rest of 36% share by the JTEKT group (including TOYODA KOKI) who is sub-group of TOYOTA car maker.



WELE majority managing team members were derived from Mechanical Industrial Research Laboratory of Industrial technology Research Institute in Taiwan who had been working in the Machine Tool business operation for more than

25-year experience. WELE managing team is well-known in Taiwan machine tool industry of developing big size bridge machine and as the professional machine tool builder with advanced technology.

WELE has successfully developed more than 60 high level models of new products, including big bridge machines working range between 600mm and 18000mm in X direction, 500mm and 6000mm in Y direction with five sides, five axes, high speed machining functions and horizontal boring function. Especially the UG series five axes machining center won the excellent award in the machining center category of 2009 Taiwan Machine Tools development and innovation contest. And again, in the 2011 Taiwan Machine Tools Development and Innovation Contest, our own development: VTC series (Vertical Turning Center) and HB series (Horizontal Boring Machine), won the supreme excellence award and eminence award. In 2013, the vertical milling and turning center MT16W won the Supreme excellence award again.

When WELE announced those series of "five side family", "five axes family", and "high speed group" of various high level machine tools in the market, we well received and met the demanding diversities from various technology needed industrious customers. We sincerely appreciated you all very much.

WELE insists on our own philosophy with professional managing team achieving our core value to face the varied markets. WELE's excellent ability is to offer our customers the reliable products and innovative technology with rich and experimental service resources. WELE will always be your best partner. Thank you.

y.c. Knan

WELE MECHATRONIC CO., LTD We lead the way by a new business model



WELE MECHATRONIC CO., LTD



R&D Core Value Advanced Technology, Modular Design

ARC SE





ACREASE ALL ADDRESS OF





الككالة إكالي

WELE MECHATRONIC CO., LTD



WELE Own-developed iSmartune **Function Application**



	Preparing Side	ing Side Internet Internet Internet	

WELE MECHATRONIC CO., LTD



WELE MECHATRONIC CO., LTD



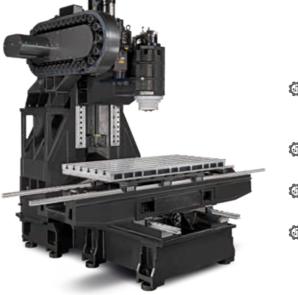
MACHINING CENTER

AA65 | AA80 | AA90



ITEM	UNIT	AA965	AA1165	AA1365	AA1565
X travel (Left & Right)	mm (in)	900 (35.4)	1100 (43.3)	1300 (51.2)	1500 (59.1)
Y travel (In & Out)	mm (in)		(25.6)		
Z travel (Up & Down)	mm (in)		600 (23.6)	
Table size (X Direction)	mm (in)	1100 (43.3)	1300 (51.2)	1450 (57.1)	1650 (65)
Table size (Y Direction)	mm (in)		650 (25.6)	
Table load capacity	kg (lb)	900 (1984)	1100 (2425)	1300 (2866)	1500 (3307)
ITEM	UNIT	AA1480		680	AA1880
X travel (Left & Right)	mm (in)	1400 (55.1)	1600	0 (63)	1800 (70.9)
Y travel (In & Out)	mm (in)		800	(31.5)	
Z travel (Up & Down)	mm (in)	700 (27.6)	800	(31.5)	800 (31.5)
Table size (X Direction)	mm (in)	1550 (61)	1750	(68.9)	1950 (76.8)
Table size (Y Direction)	mm (in)		800	(31.5)	
Table load capacity	kg (lb)	1800 (3968)	2000	(4409)	2200 (4850)
ITEM	UNIT	AA1890	AA2	090	AA2590
X travel (Left & Right)	mm (in)	1800 (70.9)	2000	(78.7)	2500 (98.4)
Y travel (In & Out)	mm (in)		900	(35.4)	
Z travel (Up & Down)	mm (in)		900	(35.4)	
Table size (X Direction)	mm (in)	1950 (76.8)	2150	(84.6)	2650 (104.3)
Table size (Y Direction)	mm (in)		900	(35.4)	
Table load capacity	kg (lb)	2000 (4409)	2200	(4850)	3000 (6614)





ITEM	UNIT	AQ850	AQ1050	AQ1265	AQ1465	AQ1665
X travel (Left & Right)	mm (in)	800 (31.5)	1020 (40.2)	1200 (47.2)	1400 (55.1)	1600 (63)
Y travel (In & Out)	mm (in)	510 (20.1)		650 (25.6)	
Z travel (Up & Down)	mm (in)	510 (20.1)		610 (24)		
Table size (X Direction)	mm (in)	1000 (39.4)	1200 (47.2)	1400 (55.1)	1600 (63)	1750 (68.9)
Table size (Y Direction)	mm (in)	510 (20.1)		650 (25.6)	
Table load capacity	kg (lb)	500 (1102)	600 (1323)	1000 (2205)	1000 (2205)	1000 (2205)

- Developed for high performance axial movement by ball/roller guide way, high response on feed system and higher spindle speed with 10000rpm or more.
- Well arrangement for light alloy material cutting and aluminum application.
- Y axis available to up to 650mm & X axis available to up from 1200mm to 1600mm.
- 48m/min rapid feed movement is to provide high response on this field.



FIVE AXES MACHINING CENTER

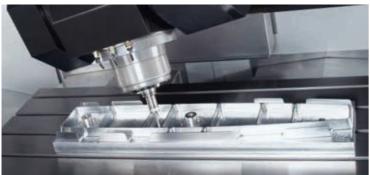
UA series



• UA2090

- Bobust design for 5 axes simultaneous application jobs for aerospace parts machining.
- High rigid design of AB tilting head with max torques of 4950Nm/3650ft-lb on A axis and 7960Nm/5870ft-lb on B axis.
- Dual driven feed system on Y axis provides heavy movement performance.





ITEM	UNIT	UA2090	UA2590
X travel (Left & Right)	mm (in)	2000 (78.7)	2500 (98.4)
Y travel (In & Out)	mm (in)	900 (3	35.4)
Z travel (Up & Down)	mm (in)	900 (3	5.4)
A travel (Rotating)		\pm 30 $^{\circ}$ (BBT50)	, 40° (BBT40)
B travel (Tilting)		\pm 30 $^{\circ}$ (BBT50)	, 40° (BBT40)
Clamping area	mm (in)	2150x900 (84.6x35.4)	2650x900 (104.3x35.4)
Table load	Nm (lb)	2200 (4400)	2500 (5500)
Spindle Speed/Torque	rpm (Nm/ft-lb)	8000 (600	/ 132.2)
Spindle Speed/Torque	rpm (Nm/ft-lb)	12000 (42	0 / 92.5)



- Ocmpact design for 5 sides & 5 axes simultaneous application jobs: Aerospace and general parts machining.
- Overhead moving gantry by twin driving system on Y axis.
- Own developed Trunion AC table provide max torque of 6000Nm on A, 2000Nm on C axis.
- Max. tool capacity of 60 is optional available.
- Heidenhain and FANUC controller both available on this field.

ITEM	UNIT	UG800	UG630
X travel (Left & Right)	mm (in)	800 (31.5)	640 (25.1)
Y travel (In & Out)	mm (in)	950 (37.4)	520 (20.4)
Z travel (Up & Down)	mm (in)	650 (25.6)	460 (18.1)
Swivel axis (Rotation)	degree	A axis: +30 / -120	B axis: -50/+110
C travel (Rotation)	degree	360	360
Table diameter	mm (in)	800 (31.5)	650 (25.9)
Table for divide degree	degree	0.001	0.001
Table load capacity	kg (lb)	1000 (2205)	200/300 (440/660)

WELE

- The UG630 equips with SIEMENS 840D controller.
- The B & C axis are equipped with a high gear ratio with roller cam and consist of high torque servo motor with maximum torques of 5760 Nm on B axis and 960 Nm on C axis
- The clamping force is 4,490 Nm on B axis and 2,570 Nm on C axis whenever the power is lose.
- 32 tools magazine is standard; 40,48,60 tools as optional available.



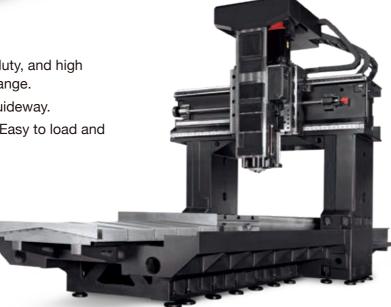
MACHINING CENTER

RB series

Developed for high precision, heavy duty, and high performance on the smallest bridge range.

WELE

- All axes are using ultra-heavy roller guideway.
- Super wide operator door (full open). Easy to load and unload the workpiece.
- Max. rapid feed up to 24m/min.



REBIE

WELE

WELE





• Above photo is SB's main structure without splash guarding system.

• RB212

ITEM	UNIT	RB-212	RB-312	SB-216(Y)(M)	SB-316(Y)(M)	SB-416(Y)(M)	
X travel (Left & Right)	mm (in)	2120 (83.5)	3060 (120.4)	2120 (83.5)	3060 (120.4)	4060 (159.8)	
Y travel (In & Out)	mm (in)	1200	(47.2)	1600 (62.9) as standard / 2300 (90.5) as option			
Z travel (Up & Down)	mm (in)	800 (31.4)	800 (31.4) as standard, 1000 (39.4) as option			
Table size (X Direction)	mm (in)	2000 (78.7)	3000 (118.1)	2000 (78.7)	3000 (118.1)	4000 (157.4)	
Table size (Y Direction)	mm (in)	1100	(43.3)		1500 (59.0)		
Table load capacity	kg (in)	3500 (7716)	4500 (9921)	8000 (17637)	10000 (22046)	12000 (26455)	

MACHINING CENTER

SB series

WELE

- The most economical equipment for 3 axes machining on this field.
- Economical multi-head exchange & storage with tool exchange function automatically upgrade to 5 sides function optional available on this series (M type).
- 5 sides work coordinate plane convert system auto attach with this optional function.
- Bridge casting made in one piece.



4+1 AXES MACHINING CENTER

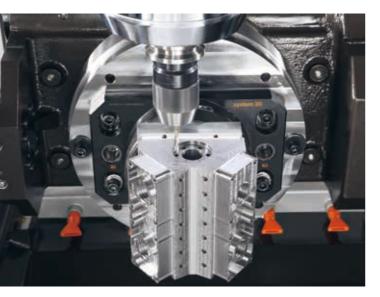
UQ series



• UQ400

- Uses WELE own design trunnion table which have backlash free mechanism for high precision provided.
- 4+1 axes machining purpose.





ITEM	UNIT	UQ400
X travel (Left & Right)	mm (in)	400 (15.7)
Y travel (In & Dut)	mm (in)	650 (25.5)
Z travel (Up & Down)	mm (in)	485 (19.0)
A axis travel (Rotate Along X axis)	degree	+30 / -120
C axis travel (Table Rotation)	degree	360
Table diameter	mm (in)	320 (12.5)



- An additional tilting head available on all sizes of LB series machines called as UB series five axes simultaneous bridge machines.
- Own design or purchased tilting head are all available as required.
- Iting angle range of $\pm 110^{\circ}$ on A axis and $\pm 360^{\circ}$ on C axis.
- Z axis travel in 800mm as STD, 1000mm, 1200mm & 1400mm available as options.
- It was a standard to the termination of termination
- Equipping with FANUC/HEIDENHAIN controllers are available in tilting head made in Germany.

ITEM	UNIT	UB-421Z	UB-425YZ2
X travel (Left & Right)	mm (in)	4060 (159.8)	4060 (159.8)
Y travel (In & Out)	mm (in)	2150 (84.6)	3200 (126.0)
Z travel (Up & Down)	mm (in)	1000 (39.4)	1200 (42.4)
A travel (Rotation)	degree	±110	±110
C travel (Rotation)	degree	±360	±360
Table size (X Direction)	mm (in)	4000 (157.5)	4000 (157.5)
Table size (Y Direction)	mm (in)	2000 (78.7)	2400 (94.5)
Table load capacity	kg (lb)	15000 (33000)	15000 (33000)



UB series

FIVE AXES MACHINING CENTER







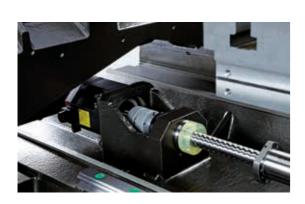


MACHINING CENTER

VQ series



• VQ1060 with caterpillar type chip conveyor(OPT)



- High speed and general machining purpose. VQ machine is suitable for aluminum parts machining.
- 🚳 3 axes uses linear ball way.
- Casting in one piece for ball screw bearing supports on all axes.



ITEM	UNIT	VQ650	VQ1060
X travel (Left & Right)	mm (in)	650 (25.6)	1020 (40.2)
Y travel (In & Out)	mm (in)	510 (20.1)	600 (23.6)
Z travel (UP & Down)	mm (in)	510 (20.1)	600 (23.6)
Table size (X direction)	mm (in)	800 (31.5)	1150 (45.3)
Table size (Y direction)	mm (in)	510 (20.1)	600 (23.6)
Table load capacity	kg (lb)	500 (1,102.3)	700 (1,543.2)



Z axis boxway design for VB machine. Bridge in one piece design.



ITEM	UNIT	VB-215	VB-315	VB-320	VB-420
X travel (Left & Right)	mm (in)	2020 (79.5)	3020 (118.9)	3020 (118.9)	4020 (158.2)
Y travel (In & Out)	mm (in)	1500	(59.1)	2000	(78.7)
Z travel (Up & Down)	mm (in)	800 (31.5)		800 (31.5)	
Table size (X direction)	mm (in)	2100 (82.7)	3100 (122)	3100 (122)	4100 (161.4)
Table size (Y direction)	mm (in)	1400	(55.1)	1800	(70.8)
Table load capacity	kg (lb)	8000 (17637)	10000 (22046)	10000 (22046)	12000 (26455)

.



MACHINING CENTER

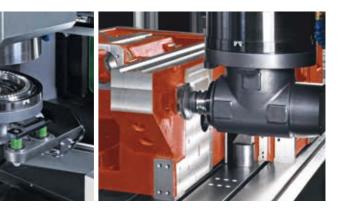


• Above photo is VB-215's main structure without splash guarding system.



- Economical multi-head exchange & storage with tool exchange function automatically upgraded to 5 sides function on this field.
- 5 side work coordinate plane convert system auto attached with this optional function as M type. Named as LB_ __M.
- Z travel with 800mm as STD; 1000mm, 1200mm & 1400mm available as an option.
- X travel can be provided up to 10 meter as required.

ITEM	UNIT	LB-321(Y)	LB-421(Y)	LB-521(Y)	LB-325(Y)	LB-425(Y)	LB-525(Y)	LB-625(Y)
X travel (Left & Right)	mm (in)	3060 (120.4)	4060 (159.8)	5060 (199.2)	3060 (120.4)	4060 (159.8)	5060 (199.2)	6060 (238.5)
Y travel (In & Out)	mm (in)	2150 (84.6)	as standard / 2800 (110.)	2) as option		2550 (110.3) as standard	/ 3200 (126.0) as option.	
Z travel (Up & Down)	mm (in)	800 (31.4) as Standard	l, 1000 (39.3), 1200 (47.2)), 1400 (55.1) as Option		800 (31.	4) as Standard, 1000 (39.3)	, 1200 (47.2), 1400 (55
Table size (X Direction)	mm (in)	3000 (118.1)	4000 (157.4)	5000 (196.8)	3000 (118.1)	4000 (157.4)	5000 (196.8)	6000 (236.2)
Table size (Y Direction)	mm (in)		2000 (78.7)			2400	(78.7)	
Table load capacity	kg (lb)	12000 (26455)	15000 (33069)	18000 (39683)	12000 (26455)	15000 (33069)	18000 (39683)	20000 (44092)



 LB-533(Y)
 LB-633(Y)

 5060 (199.2)
 6060 (238.5)

 3300 (129.9) / 4000 (157.4)

 55.1) as option

 5000 (196.8)
 6000 (236.2)

 2400 (78.7)

 2)
 18000 (39683)
 20000 (44092)



CROSS RAIL UP & DOWN FIVE SIDES MACHINING CENTER

MVB series

- Special design for extra size machining purpose.
- Z travel can be extended to 1400mm (55.1in) Max. height of distance between spindle nose and table top is 2400mm (94.4in)
- Minimize the overhang of the cross-rail and spindle carriage combination to increase the rigidity of the cutting performance.
- Max length of X travel can be up to 10000mm (393.7in).
- Dismantle before shipment is necessary. Any installation assistance might cost extra.

WELE 102

ITEM	UNIT	MVB-532	MVB-632	MVB-832	MVB-539	MVB-639	
X travel (Left & Right)	mm (in)	5060 (199.2)	6060 (238.5)	8060 (317.3)	5060 (199.2)	6060 (238.5)	
Y travel (Carriage Forward & Reverse)	mm (in)	3200 (125.9)	3200 (125.9)	3200 (125.9)	3900 (153.5)	3900 (153.5)	
Z travel (Spindle Up & Down)	mm (in)		1000 (39.4)			1000	(39.4)
W travel (Cross Rail Up & Down)	mm (in)		1200 (47.2)			1200	(47.2)
Between columns	mm (in)		2600 (102.3)			3300	(129.9)
Distance between spindle & table	mm (in)		200~2400 (7.87~94.48)			200~2400 ((7.87~94.
Table size (X x Y Direction)	mm (in)	5000x2000 (196.8x78.7)	6000x2000 (236.2x78.7)	8000x2000 (314.9x78.7)	5000 x 2400 (196.8 x 94.4)	6000 x 2400 (236.2 x 94.4)	8000
Spindle Speed (Geared)	rpm		6000			60	000





MVB-839	MVB-1039
8060 (317.3)	10060 (396.1)
3900 (153.5)	3900 (153.5)
8)	

94.48) 000 x 2500 (314.9x98.4)

10000 x 2500 (314.9x98.4)



MOVING GANTRY BRIDGE MACHINING CENTER

MG / MG-U



- Moving overhead gantry bridge machine with max up to 20m in X axis and 5m in Y axis is available.
- Twin driven feed system on X axis travel up to 6000mm with ball screw; rack and pinion driven feed system available with travel 6000mm above.
- Automatic multi-head exchange and storage system, AC tilting head with 5 axes simultaneous control are all optional available on the field.
- Max. table load of 2500kg/m² is provided.
- Special foundation at the customer site is required.
- Patented backlash eliminated mechanism is applied on the X axis travel.

THE IS IN THE IS INTO THE IS INT	FANUC/HEND
- R	controllers are a
ALL ALL DESCRIPTION	tilting head made





ITEM	UNIT	MG-530	MG-630	MG-830	MG-1030	MG-640	MG-840	MG-1040	MG-650	MG-850	MG-1050	MG-1250	MG-1450	MG-1650
X travel (Left & Right)	mm (in)	5000 (196.9)	6000 (236.2)	8000 (314.9)	10000 (393.7)	6000 (236.2)	8000 (314.9)	10000 (393.7)	6000 (236.2)	8000 (314.9)	10000 (393.7)	12000 (472.4)	14000 (551.1)	16000 (629.9)
Y travel (Left & Right)	mm (in)		3000 (118.1)			4000 (157.4)				5000 (196.8)		
Z travel (Up & Down)	mm (in)	1000 (39.3) as standard, 1200 (47.2), 1400 (55.1) as option												
Table size (X Direction)	mm (in)	5000 (196.9)	6000 (236.2)	8000 (314.9)	10000 (393.7)	6000 (236.2)	8000 (314.9)	10000 (393.7)	6000 (236.2)	8000 (314.9)	10000 (393.7)	12000 (472.4)	14000 (551.1)	16000 (629.9)
Table size (Y Direction)	mm (in)	2800 (110.2)				3800 (149.6)					4800 (188.9)		
Table load capacity	kg/m² (lb/ft²)	7500 (177,933)						7500 (177,933)				7500 (1	77,933)	



HORIZONTAL BORING MILLING MACHINING CENTER

HB / HB-F



WELE



- Two kinds of spindle, Ø110mm (W travel with 500mm) and Ø130mm (W travel with 700mm) quill type and Ram type combined with quill travel, provides all kinds of applications.
- Specified Hydro-static bearing offered heaviest loaded on the index table.
- 4000rpm geared spindle with 1,076Nm/793ft-Ib offered as STD, 8000rpm built-in spindle with 600Nm/442ft-lb as Option.
- Patented backlash eliminated mechanism gives index table backlash free on the table smaller than 1600x2000mm, two servo motors convert on the table bigger than 2200x2500mm.





ITEM	UNIT	HB1416-110	HB1620-130	HB-315F	HB430-F
X travel (Left & Right)	mm (in)	2000 (78.7)	3000 (118.1)	3000 (118.1)	4000 (157.4)
Y travel (Up & Down)	mm (in)	1800 (70.8)	2100 (82.6)	1500 (59.1)	3000 (118.1)
Z travel (In & Out)	mm (in)	1300 (51.2)	1500 (59.1)	1500 (59.1)	1500 (59.1)
W travel (Quill or Ram In & Out)		500 (19.6)	700 (27.5)	800 (31.4)	800 (31.4)
B travel (Rotation)	degree	360	360	360 (OPT)	360 (OPT)
Distance btwn spindle & table edge	mm (in)	200~2000 (7.8~78.7)	80~2280 (3.1~89.7)	400 (15.7)	400 (15.7)
Distance btwn spindle & table center	mm (in)	0~1800 (0~70.8)	0~2100 (0~82.6)	700 (27.5)	700 (27.5)
Table size (X Direction)	mm (in)	1440 (56.7)	1600 (63)	2200 (86.6)	2200 (86.6)
Table size (Y Direction)	mm (in)	1600 (63)	2000 (78.7)	2500 (98.4)	2500 (98.4)
Table load capacity	kg (lb)	8000 (17637)	12000 (26455)	20000 (44092.5)	20000 (44092.5)

HB535-F	
5000 (196.8)	
3500 (137.7)	
1500 (59.1)	
800 (31.4)	
360 (OPT)	
400 (15.7)	
700 (27.5)	
2200 (86.6)	
2500 (98.4)	
20000 (44092.5)	



VERTICAL TURNING & MILLING CENTER



- Vertical Turning center equipped with threeaxis control (X, Z, W) and table indexing enable mechanism.
- Robust machine bed, double column, 260 to 320mm square ram, and curvic coupling tool adaptor for high rigidity.
- With the B-axis indexable rotation table, the single machine can functional as a vertical turning, vertical, horizontal machining center and light grinding purpose. One setup can finish whole process.
- Own developed hydro-static bearing offered heaviest loaded on the rotating table.

- Rotating table equipped with geared driven which provided 139766Nm/103086ft-lb (max.) torque at Ø2500mm table.
- Patented ATC storage can be assigned randomly as quantity needed such as angular head, grinding head, turning tool and vertical tools combination which we named "Puzzle ATC storage".
- Heavy-duty angular head enables five-sides machining with high rigidity.





ITEM	UNIT	VTC1612-20	VTC-1616-20	VTC2016-24	VTC2020-24	VTC2520-30	VTC2525-30	VTC3025-35	VTC3032-35
Turning table diameter	mm (in)	1600 (62.99)	2000	(78.74)	2500 (98.43)	3000 (118.11)
Max. turning height capacity	mm (in)	1200 (4	47.24)	1600	(62.99)	2000 (78.74)	2500	98.43)
Max. swing diameter	mm (in)	2000 (78.74)	2400	(94.49)	3000 (1	118.11)	3500	137.8)
Distance from table to ram's surface	mm (in)	1400 (55.12)	1800 (70.87)	1800 (70.87)	2200 (86.61)	2200 (86.61)	2700 (106.3)	2700 (106.3)	3400 (133.86)
X axis travel	mm (in)	-810 to (-31.89 t		-1010 to (-39.76 to		-1260 t (-49.61 t	co 1680 co 66.14)		co 2000 co 78.74)
Z axis travel	mm (in)	1050 (41.34)	1050 (41.34)	1050 (41.34)	1250 (49.21)	1250 (49.21)	1500 (59.06)	1500 (59.06)	2500 (98.43)
W axis travel	mm (in)	800 (31.5)	1100 (43.31)	1200 (47.24)	1500 (59.06)	1500 (59.06)	1900 (74.8)	1900 (74.8)	2500 (98.43)



MULTI-MILLING & TURNING BRIDGE MACHINE



• MT-16 with some optional accessories.

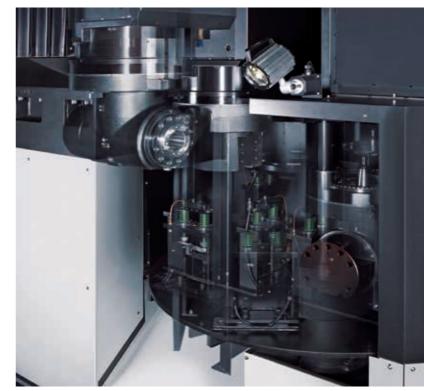
- Multi-task purpose provides various applications and demands : 5 sides milling and turning machining purposes for customers.
- MT series of all in one design concept offers multiple machining procedures: milling, turning, boring, and drilling etc.
- WELE own developed hydro-static bearing of rotary table unit provides the heavy loading and keep long term precise accuracy.
- In the rotary table's Cs axis backlash eliminated design reaches indexing in 0.001 degree incrementally.
- Automatic head/ tools exchange system well prepared for milling & turning purposes.
- Angular head storage along W axis any position: Automatic tool & head exchange available. (Only for MT-16W or MT-20W)





ITEM	UNIT	MT-16 / MT-16W	MT-20 / MT-20W		
X axis travel	mm (in)	2800 (110.2)	3200 (126.0)		
Y axis travel	mm (in)	2600 (102.4) / 3060 (120.5)	3000 (118.1) / 3500 (137.8)		
Z axis travel	mm (in)	800 (31.5)		
W axis travel	mm (in)	1000 (39.4) only for MT-16W, MT-20W			
Turning diameter	mm (in)	1600 (63.0)	2000 (78.7)		
Max. turning height	mm (in)	700 (27.6) / 1700 (66.9) o	nly for MT-16W, MT-20W		
Max. swing diameter	mm (in)	2100 (82.7)	2500 (98.4)		





Automatic head exchange system in vertical/ horizontal/ turning head.



Automatic tool exchange system in vertical/ horizontal/ turning tool.



HORIZONTAL MACHINING CENTER

HMC series





- The HMC500+PPS C5 has got the award of "Taiwan Excellence 2023".
- WELE Own developed the Pallet Pool System with additional 5 pallets (PPS C5) which has intelligent and friendly design concept.
- The operator interface has combine users 'habit and smart control as much close to users' friendly operation.



- Main structure and key components are WELE own development and manufacturing.
- Rapid federate for 60m/min and rapid tool exchanging (T to T) as 1.7 sec.

WELE

- Equipped with WELE own design high speed builtin spindle(15,000rpm).
- Available extended to FMS (Flexible Manufacturing System) for 6~10 pallets.

ITEM	UNIT	HMC500	HMC630
X axis travel (Front & Rear)	mm (in)	640 (25.2)	1050 (41.3)
Y axis travel (Up & Down)	mm (in)	610 (24)	900 (35.4)
Z axis travel (Left & Right)	mm (in)	680 (26.8)	870 (34.3)
B axis indexing	degree	0.001 degree	1 degree (STD), 0.001 degree (OPT)
Pallet size	mm (in)	500*500 (19.7*19.7)	630*630 (24.8*24.8)
Spindle speed	rpm	Built-in, 15000 rpm	Built-in, 12000 rpm

WELE

Independent Operating System



Pallet

Pool

System

Reliable & Efficiency Operating System

Friendly Operation Maintenance