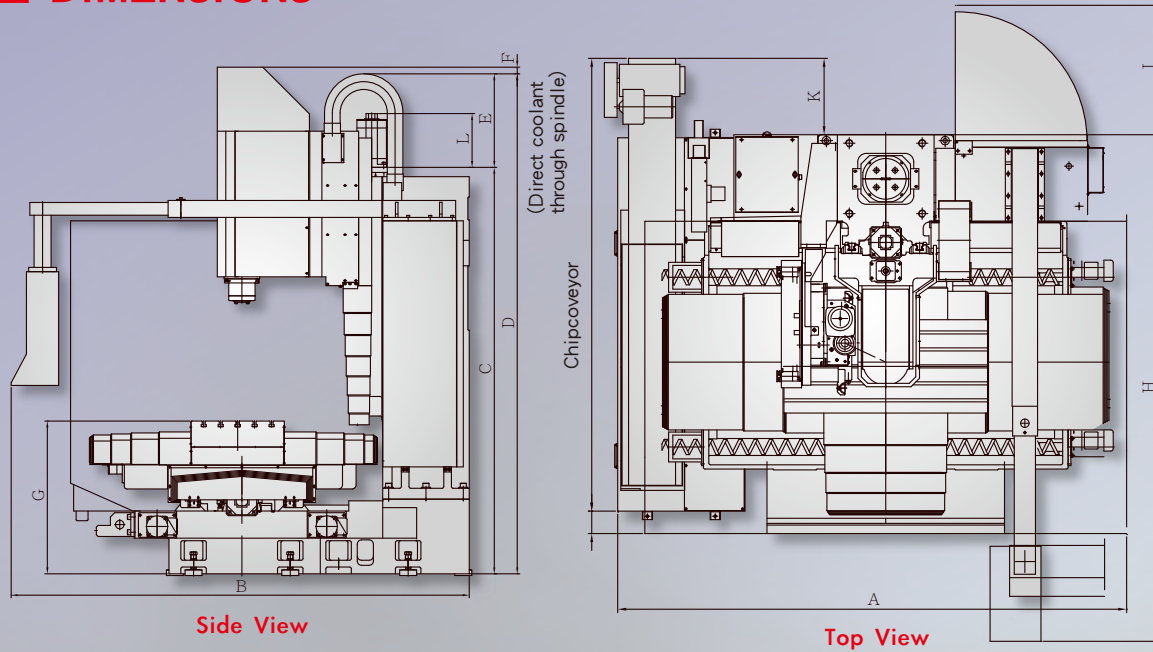


DIMENSIONS



	A	B	C	D	E	F	G	H	I	J	K	L
ER-1263	3200	2700	2395	2946	551	82	900	2985	724	2668	450	243
ER-1363	3400	2700	2395	3046	405	82	900	2985	724	2668	450	243
ER-1680	4000	2980	2670	3155	485	82	870	3265	680	2834	406	317
ER-1886	4500	3150	2700	3185	485	82	870	3435	680	2834	406	317
ER-2210	5300	3700	3050	3500	450	82	970	3745	639	2834	154	391



2210L / 2210B
 1886L / 1886B
New 1680L / 1680B
 1363L / 1363AB
 1263L / 1263A

Strength & Durability-

Increase your profitability with superbly manufactured machine tools from Everricho



Vertical Machine Center

**PRECISION
 POWER
 RELIABLE**



DUAL TYPE CHIP SCREW
FULL SUPPORT FOR WORK TABLE AND SADDLE



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Dealer :

FMS-A6020214 886-4-23583111

ER-VMC-2210L (Three axes linear ways)

2210B (Three axes box ways)

2210LB (X/Y axes linear ways)

(Z axis ways)

- X.Y.Z Stroke : 2200 x 1000 x 900 mm
- Table size : 2200 x 1000 mm

- The life of wide linear guideway is multiple times longer than the narrow linear way

Ball Screw and the size of Linear Way

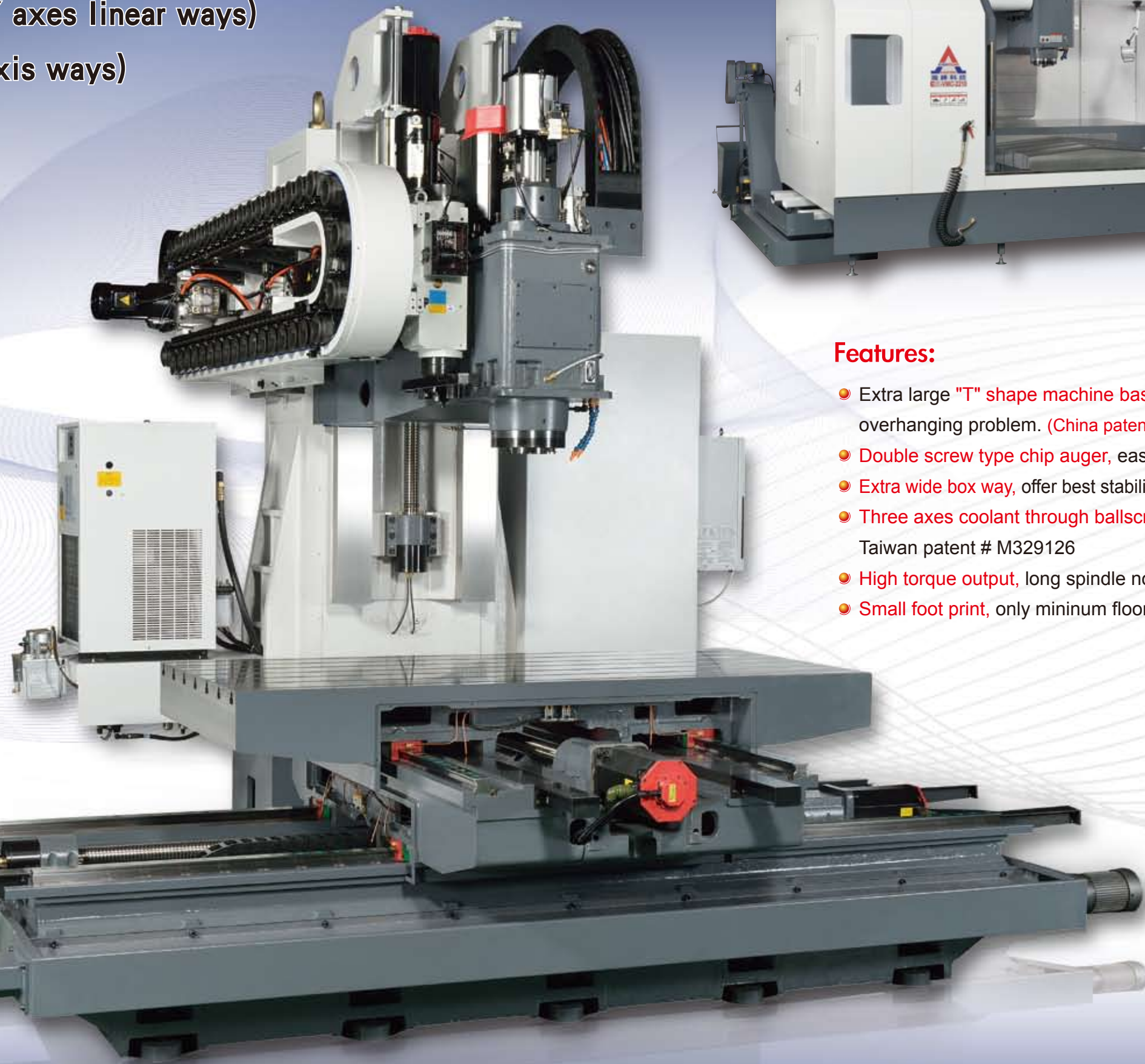
	Outer Diameter of Ball Screw	Precision	Size of Linear Way	Precision
VMC-2210	X axis ψ 63	C3	55	P
	Y axis ψ 63	C3	55	P
	Z axis ψ 63	C3	55	P
VMC-1886	X axis ψ 45	C3	55	P
	Y axis ψ 45	C3	45	P
	Z axis ψ 45	C3	45	P
VMC-1363	X axis ψ 45	C3	45	P
	Y axis ψ 45	C3	45	P
	Z axis ψ 45	C3	45	P

Full range of machines all use wide roller linear way



Features:

- Extra large "T" shape machine base, no table overhanging problem. (China patent 1061900)
- Double screw type chip auger, easy chip cleaning.
- Extra wide box way, offer best stability for heavy duty cutting
- Three axes coolant through ballscrew, Taiwan patent # M329126
- High torque output, long spindle nose headstock.
- Small foot print, only minimum floor space required.



ER-VMC-1886L (Three axes linear ways)

1886B (Three axes box ways)

New

1680L / 1680B (Three axes Linear / Box ways)

1680LB (X/Y axis linear ways, Z axis box ways)

1886:

- X.Y.Z Stroke : 1800 x 860 x 700 mm
- Table size : 1800 x 860 mm

New **1680:**

- X.Y.Z Stroke : 1600 x 800 x 700 mm
- Table size : 1600 x 800 mm



ER-VMC-1363L (BT50 Three axes linear ways)

1363AB (BT50 Three axes box ways)

1263L / 1263A (BT40 Three axes linear / box ways)

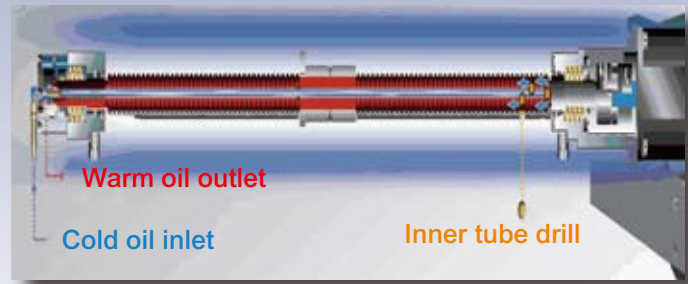
1363LB (BT50 X/Y axes linear ways, Z axis box ways)

1363:

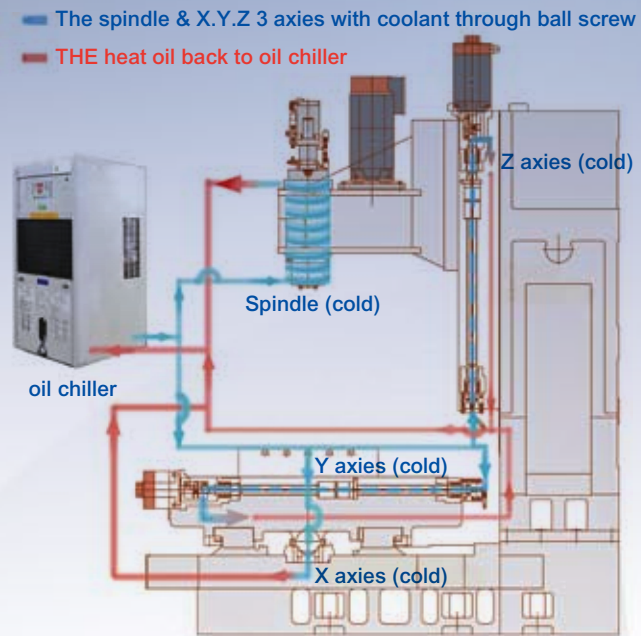
- X.Y.Z Stroke : 1300 x 630 x 600 mm
- Table size : 1450 x 600 mm



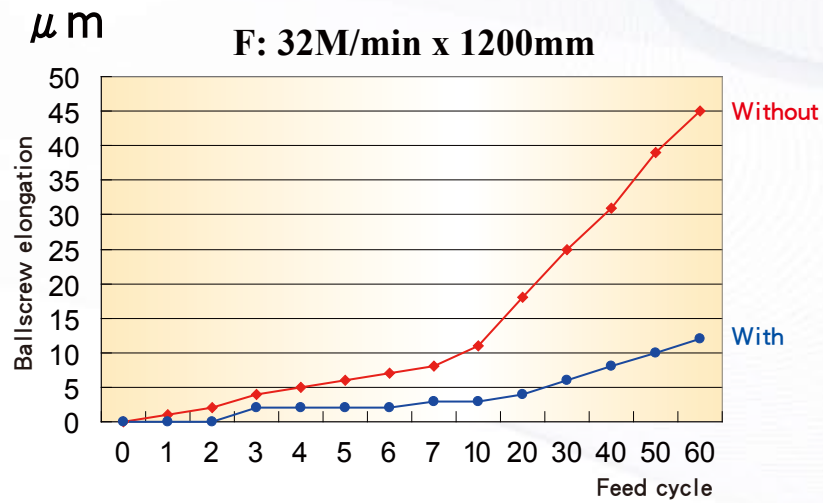
■ Coolant oil through ballscrew device



(Taiwan patent # M329126)



■ Repeated Precision of with or without coolant through ball screw



■ Coolant-through with three ball screws



■ BT-40 / BT-50 ATC Tool Magazine
24 Tools ATC Standard



■ BT-40 / BT-50 ATC Tool Magazine
(32/40 tools magazine optional)



■ Full support the saddle and work table **No Overhang**



Left



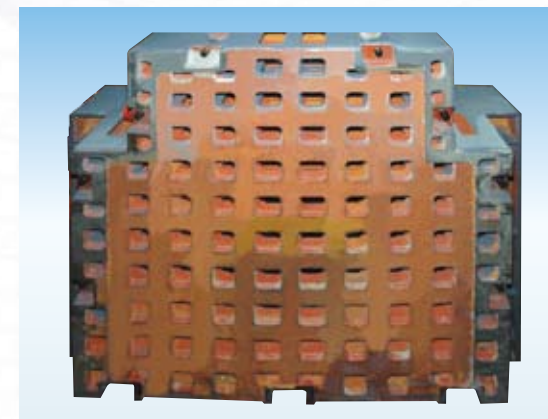
Right



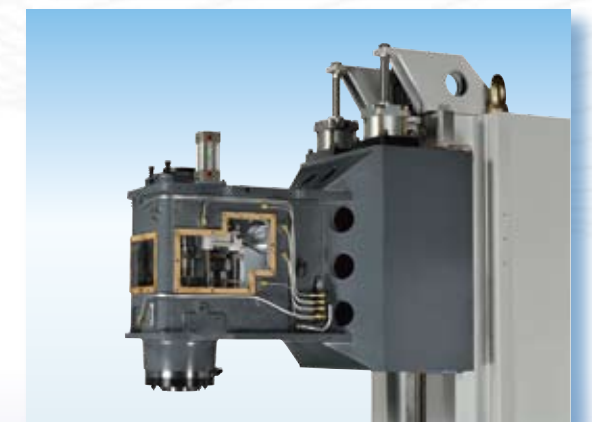
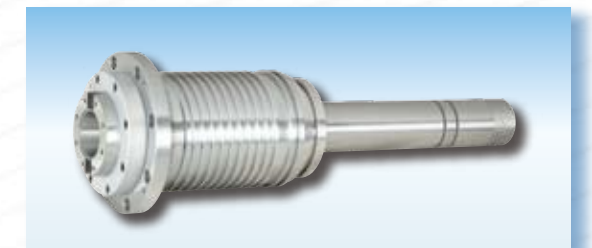
4 layers of RIB inside the Column



Broad base construction, dual type chip screw



Dual layers box type base



Gear head designed with high strength steel alloy, hardened & high precision ground.

■ Spindle • Work Table • Saddle



Precise head scraping for spindle



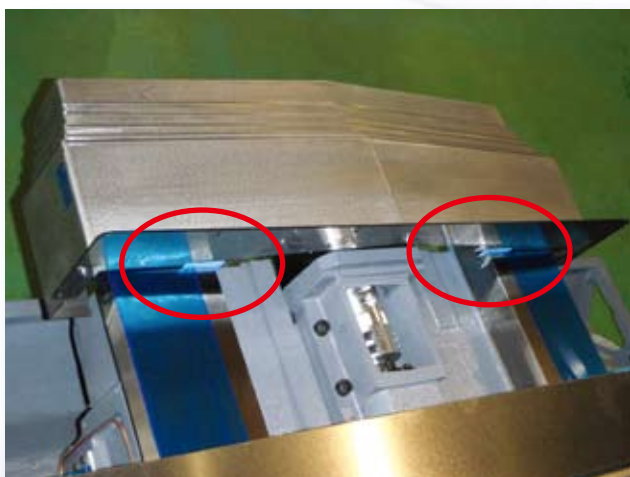
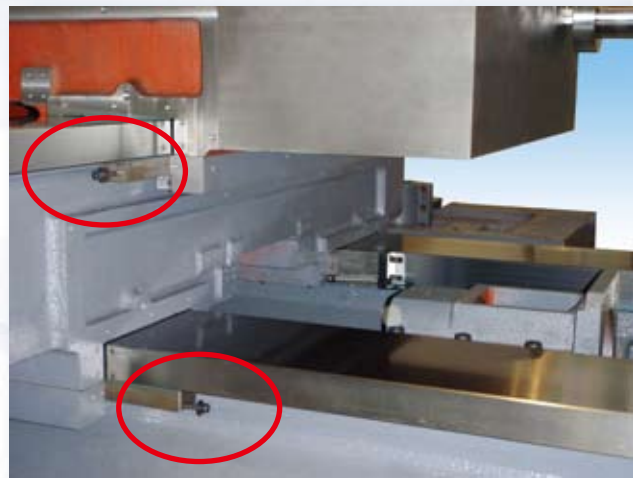
6 sliding blocks on spindle head



Reliable lubrication system



18 pieces of wedge adjusting on 3 axes avoid spindle head hanging down, saddle and work table swaying



The rolling wheel of elastic cover does not damage the sliding trace

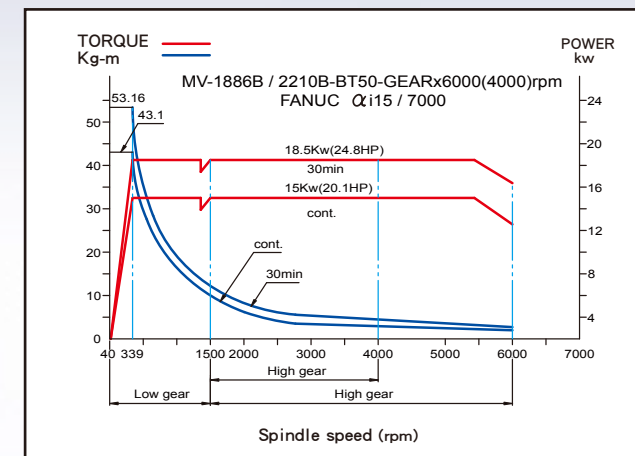


■ Cutting Report

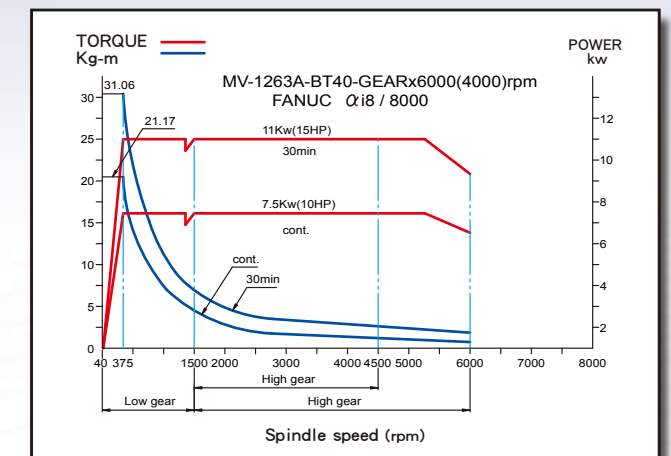
Cutting tool	Material	Tool dia.	Cutting Width x depth	Spindle speed (rpm)	Feed rate (mm/min)	Chip removal	Machine Model
Face cutter	S45C	Φ 100	85 × 5.5	560	1500	700 C.C.	2210B
Tap	AL	M3	10	1000	500	Rigid tapping error 1	BT50 Gear head

■ Spindle Construction And Motor Torque Output Chart

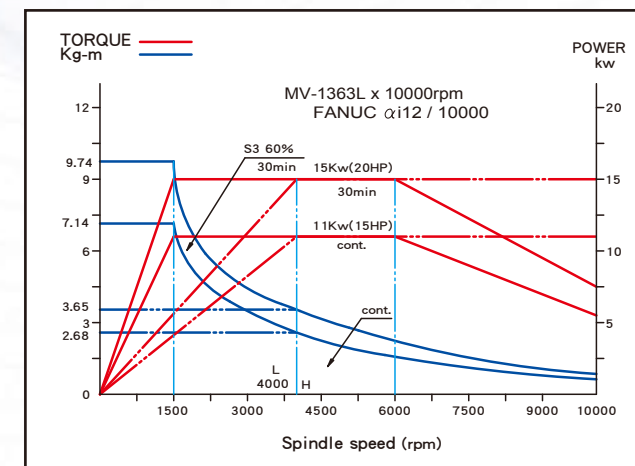
αi15-7000 BT-50# Gear



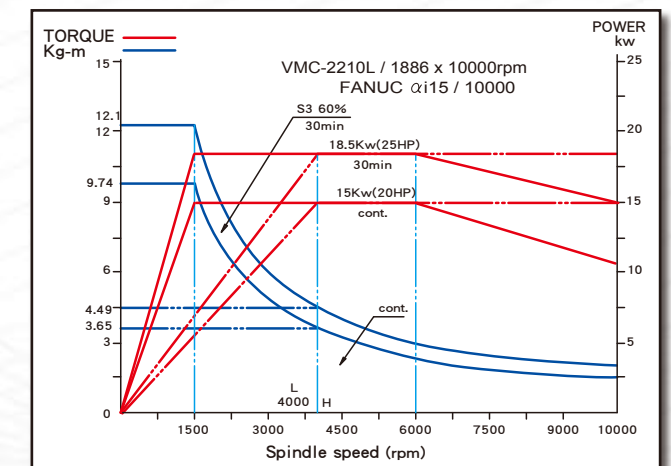
αi8-8000 BT-40# Gear



αi12-12000 Direct

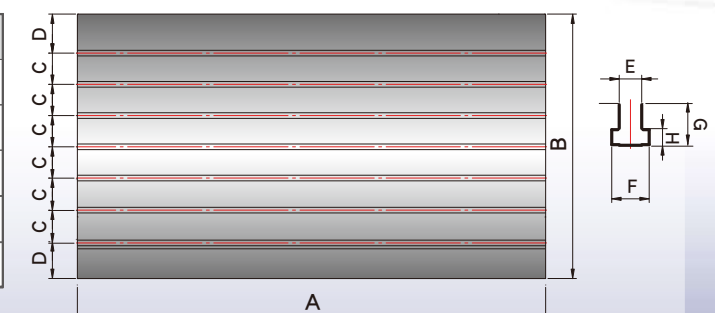


αi15-10000 Direct



■ Work Table Size (mm)

ITEM	Size	A	B	C	D	E	F	G	H	T Slot
ER-VMC-2210		2200	100	150	50	22	38	43	16	7
ER-VMC-1886		1800	860	150	130	22	30	33	12	5
ER-VMC-1680		1600	800	100	50	18	30	33	12	7
ER-VMC-1363		1450	600	100	100	18	30	33	12	5
ER-VMC-1263		1450	600	100	100	18	30	33	12	5



SPECIFICATION

New New New

※Optional

Specification	Unit	Linear Way	Box Way	X/Y Linear Way Z Box Way	Linear Way	Box Way	X/Y Linear Way Z Box Way	Linear Way	Box Way	X/Y Linear Way Z Box Way	Linear Way	Box Way	X/Y Linear Way Z Box Way	Linear Way	Box Way	
Item	UNIT	ER-VMC-2210L	ER-VMC-2210B	ER-VMC-2210LB	ER-VMC-1886L	ER-VMC-1886B	ER-VMC-1886LB	ER-VMC-1680L	ER-VMC-1680B	ER-VMC-1680LB	ER-VMC-1363L	ER-VMC-1363AB	ER-VMC-1363LB	ER-VMC-1263L	ER-VMC-1263A	
Work Table	Table size	mm	2200x1000			1800x860			1600x800			1450x600				
	T-Slot	mm	22x7x150			22x5x150			18x7x100			18x5x100				
	Max. table loading capacity	kg	3000			2000						1200				
Stroke	XYZ stroke	mm	2200x1000x900			1800x860x800			1600x800x800			1300x630x600	1300x630x635	1200x630x600	1200x630x635	
	Spindle nose to table surface	mm	125~1025	155~1055	65~965	185~985	190~880	170~970	150~950	140~740	150~785	100~700	150~785			
	Spindle center to column	mm	1045	1060		950	930	950	930	710	690	710	690			
	Spindle nose to telescope guard	mm	1000	1000		885	880	885	880	630	630	630	630			
Spindle	Speed/Transmission	rpm	8000 Belt drive ※10000 Direct drive	6000 Gear head		8000 Belt drive ※10000 Direct drive	6000 Gear head		8000 Belt drive ※10000 Direct drive	6000 Gear head		8000 Belt drive ※10000 Direct drive	6000 Gear head		8000/10000 Belt drive ※12000/15000 Direct drive	6000 Gear head
Feed	Rapid Feedrate	m/min	16x16x12	12x12x12	16x16x12	20x20x20	18x18x15	20x20x15	20x20x20	18x18x15	20x20x15	30x30x24	24x24x20	30x30x20	30x30x24	24x24x20
	Cutting Feedrate	m/min	1~10			1~15			1~20	1~15		1~20	1~15	1~15	1~20	1~15
A.T.C	Tool Magazine	piece	BT50/24T ※32T									BT50/24T ※32T		BT40/24T		
	Tool Selection		Bi-directional, random type (ARM type ATC)													
	Max. Tool Dia	mm	110											76		
	Tool dia. without Adjacent tools	mm	200											127		
	Max. Tool Length	mm	300													
	Max. Tool Weight	kg	15											7		
Motor	X/Y/Z Feed Motors	kw	α 30/ α 30/ α 30 (7/7/7)			α 22/ α 22/ α 22 (4/4/4)	α 22/ α 22/ α 30 (4/4/7)		α 22/ α 22/ α 22 (4/4/4)	α 22/ α 22/ α 22 (4/4/4)		α 12/ α 12/ α 22 (3/3/4)	α 22/ α 22/ α 22 (4/4/4)		α 12/ α 12/ α 12 (3/3/3)	α 22/ α 22/ α 22 (4/4/4)
	Spindle Motor	kw	※Direct drive α 15 (15/18.5)	※Direct drive α 15 (15/18.5)		※Direct drive α 15 (15/18.5)	※Direct drive α 15		※Direct drive α 15	※Direct drive α 12		※Direct drive α 8	※Direct drive α 8		※Direct drive α 8	※Direct drive α 8
	Spindle Motor	kw	Belt spindle α 15(15/18.5)	Gear head α 15(15/18.5)		Belt spindle α 15(15/18.5)	Gear head α 15(15/18.5)		Belt spindle α 15(15/18.5)	Gear head α 15(15/18.5)		Belt spindle α i12(11/15)	Gear head α i12(11/15)		Belt spindle α i8 (7.5/11)	(11/15) Gear head α i8
	Coolant system capacity		250	750		250	750		250	750		250	750		250	750
	Coolant motor	kw	1.27													
	Coolant tank capacity	L	450			350										
	Air Pressure Required	kg/cm ²	6													
	Electric Power Required	KVA	45			35	40	35		30		25				
GENERAL	Repeatability Accuracy	Ps	R:0.010mm			ISO 10791-4 R: 0.007mm/Full, JIS B 6336-4±0.003mm/300mm										
	Positioning Accuracy	P	A:0.014mm			ISO 10791-4 A: 0.010mm/Full, JIS B 6336-4±0.004mm/300mm										
	Gross Weight	kg	16500			13500	14000	12500	13500		9500		9200	9300		

● Note:Everricho reserve the rights for further machine design modifications without prior notice...

STANDARD ACCESSORIES

- | | | |
|-------------------------------------|------------------------------------|--|
| 1.Coolant water system | 9.Leveling blocks & bolts | 17.Water gun for workpiece |
| 2.Z axis air counter weight balance | 10.2 chip auger in X direction | 18.Operator's control box with storage compartment |
| 3.Auto oil lubrication device | 11.M30 Auto Power Off | 19.Before sales training & after service |
| 4.Spindle air blast device | 12.Heat exchange for power cabinet | 20.Circular type oil skimmer |
| 5.Work light + fluorescent light | 13.RS-232C transmission interface | 21.Fully enclosed splash guard |
| 6.Auto Tool Change System | 14.Tool box with tools | 22.Folding type operator's control box |
| 7.Alarm Lamp | 15.Spindle oil chiller | 23.XYZ coolant through ballscrew design |
| 8.Spindle loading meter | 16.M-code workpiece air blow | |

※OPTIONAL ACCESSORIES

- | | |
|--|--|
| 1.Gear head 6000/4000 rpm | 9.Power cabinet air conditioner |
| 2.Direct drive spindle 10000/12000 (15000 rpm) | 10.Coolant through spindle 20 bar |
| 3.Spindle thermal compensation (15000 rpm) | 11.Oil mist collector |
| 4.Deep hole oil through tool device | 12.4th axis wiring & piping with NC rotary table |
| 5.High volume & high pressure motor | 13.Three axes linear scale |
| 6.Auto tool length measurement | 14.DNC wiring & interface card |
| 7.Workpiece measuring system | 15.Build-in spindle BT-40, 20000rpm |
| 8.Lift-up chip conveyor | 16.Mold manufacture + ten ACC/Dece modes |