

High Precision / High Efficiency
High Durability / Perfection



• VL-300~600C/CM



• VL-160~600C/CM-2R



• VL-66~250C/CM



• PL-160~500CM



• VG-160CMG



• VL-46~100A/M/H



• HL-26/32AT



• VL-66KA2

• VG-120~250GN/GB



YES! WE ARE HONOR!



VL-125
VL-160
VL-200
VL-250

Heavy Duty Series

CNC Vertical Lathe / CNC Vertical Turning Center

 **HONOR SEIKI Co., Ltd.**

www.honorseiki.com.tw



 **HONOR SEIKI Co., Ltd.**

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Agent:

- Honor Seiki continuous to develop quality machines to meet the highest standards in precision, efficiency and reliability.



With 30 years' experience in machine tool design and manufacturing, HONOR SEIKI is the most professional and largest machine tool maker in CNC Vertical Lathe, Vertical Turning Center and Gantry type Turning/Milling/Grinding Center in Taiwan. Honor Seiki brand is internationally recognized and sold over 50 countries with many repeated orders. Unlike others who over diversify, Honor Seiki focuses solely on vertical turning lathe, with an undivided aim to perfect our product line and bring about greatest customer satisfaction. We are very proud of providing our machines to many leading companies around the world. The industrials we provide include aerospace, automotive, railway, high speed rail, mining, oil and gas, wind power...etc. From outer space rockets to deep ocean submarines, all utilize Honor Seiki vertical lathe to maximize their machining potential. We are proud of our accomplishments in bringing accolades to Taiwan. Our business model is based on cooperation, lasting partnership and mutual benefits in order to best serve our clients and help them reap their greatest gain, with special emphasis on Quality, Efficiency, Accuracy, Honest and Responsibility. We always fulfill our promises to our customers. Honor Seiki LTD is your best partnership to prosper and grow your business.

Fields Of Application

Vertical Lathe & Vertical Turning Center

- Construction
- Automotive
- Aerospace
- Rail
- Boat
- Bearing
- Valve
- Mold
- Gear
- Machine tool
- Power plant
- Oil & gas
- Wind power



Thousands Of Successful Turnkey



Machine Structure



- **Stable column design**
 - One piece column with wide span.
 - Box structure of column reduce vibration.

• Powerful tool clamping system



- GC clamping system



- BT-50 clamping system



- Solid Lock clamping system (U.S. patent of invention by HonorSeiki)



- **Brilliant design of cross-rail**
 - Position lock with clamping to make sure its parallelism and stability.



- **Thoughtful table bearing choice**
 - Bigger bearing for stronger rigidity and durability.
 - Carbonized Gear.
 - JIS Grade SCM440 Material.

• Strong design

- High-grade Meehanite casting with box in box structure.
- One piece big machine bed with built in gear box and table spindle.



■ Photo of VL-160CM

C-TYPE ATC

(Turning)



• GC-200 Curvic coupling (for VL-125 / VL-160)



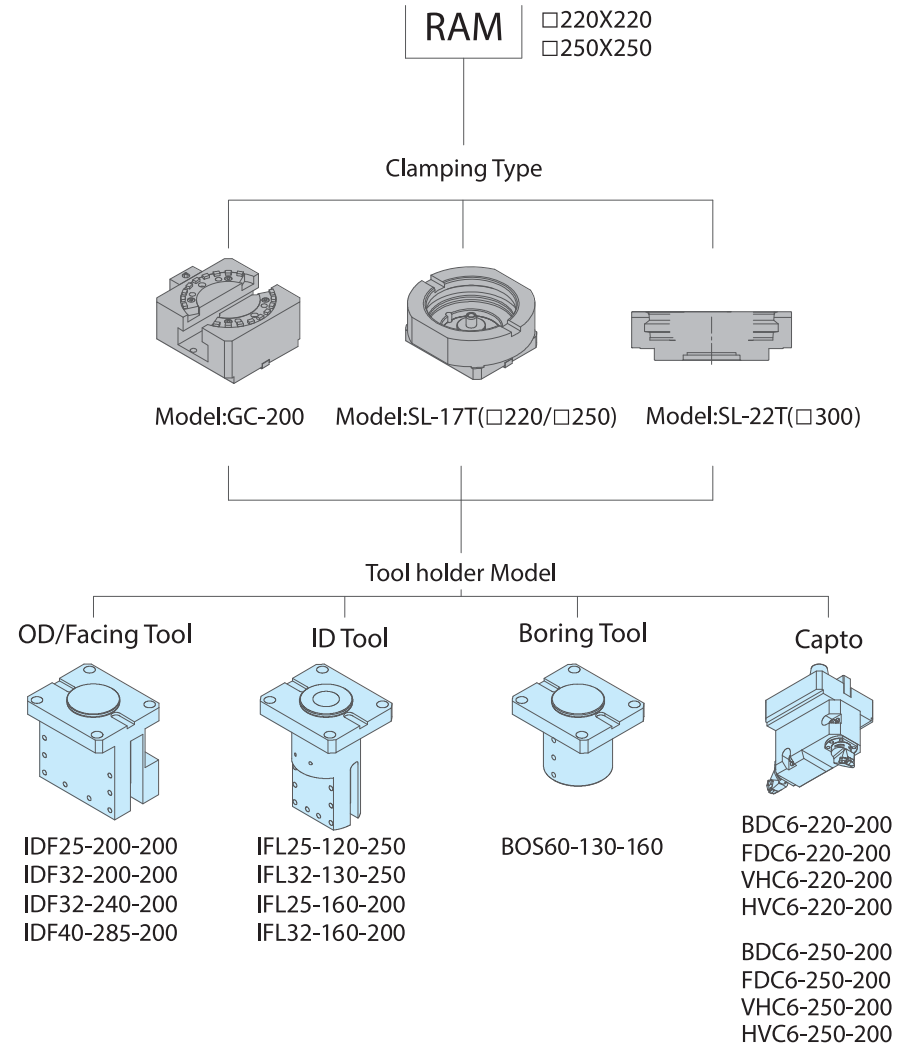
• PC17T (Option) (Two Face Contact Tooling / Patent)



• PC22T (Option) (Two Face Contact Tooling / Patent)



C-Type ATC Tool System

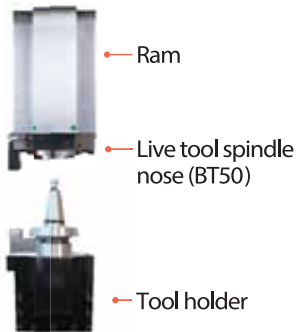


M-TYPE ATC (BT50)

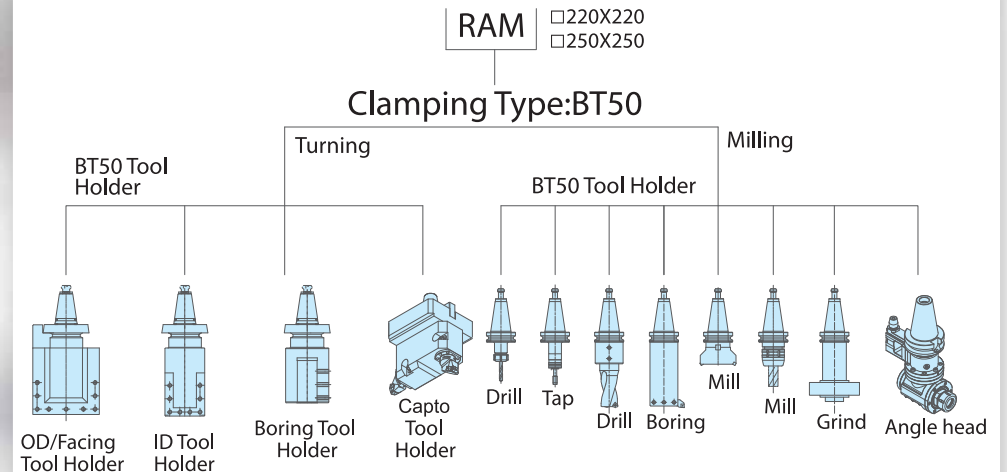
(Turning and milling)



• BT50-200 (BT50)



M-Type ATC Tool System



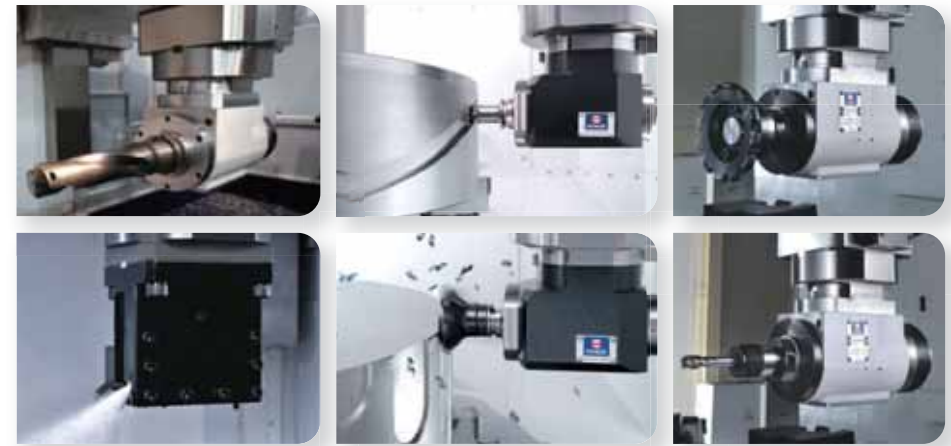
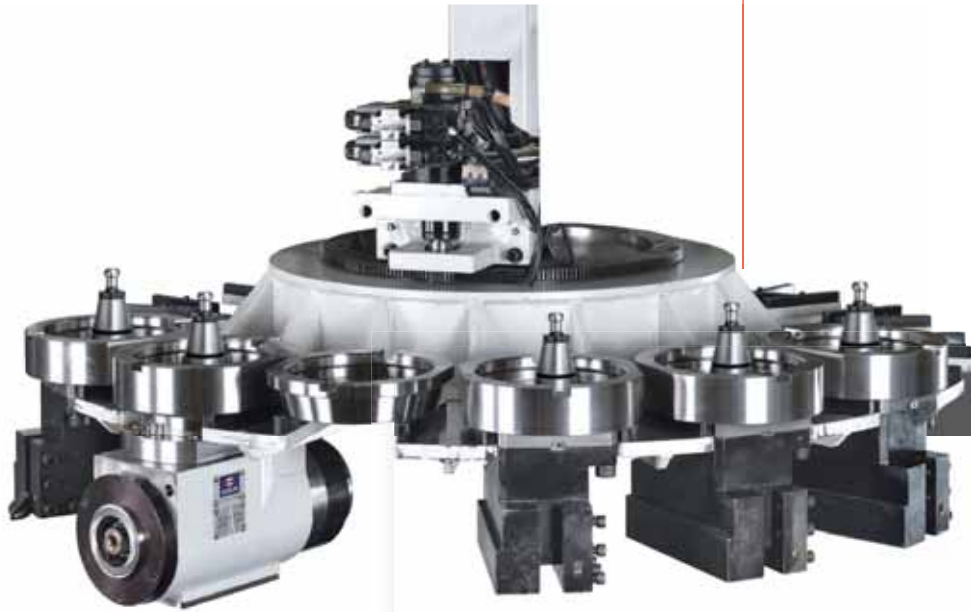
Material



Planet gear
(not including gear cutting)

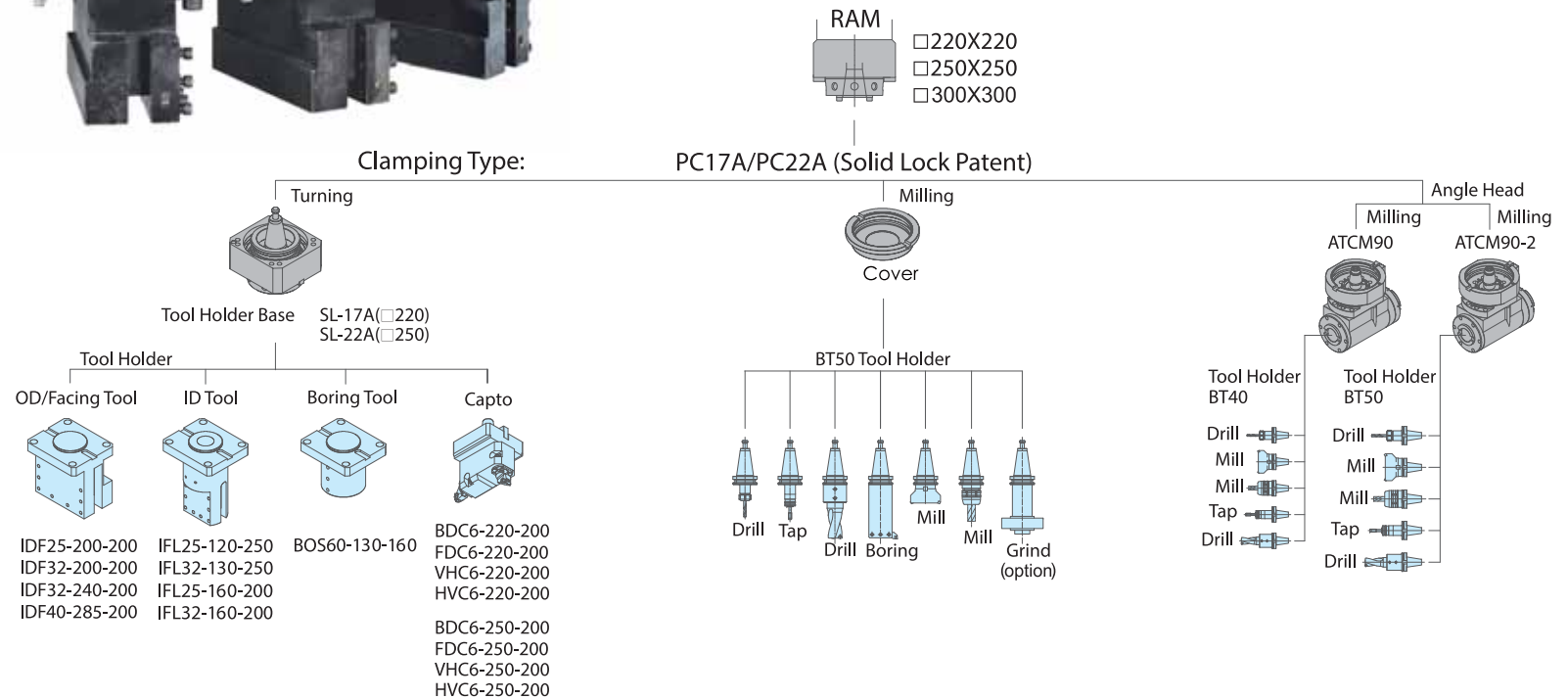
M-TYPE ATC (Solid Lock)

(Turning and milling)

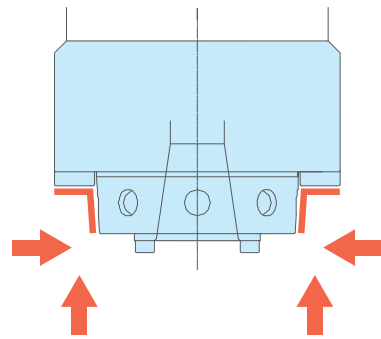


Solid-lock ATC Tool System(option)

• PC17A / PC22A (Two Face Contact Tooling / Patent)

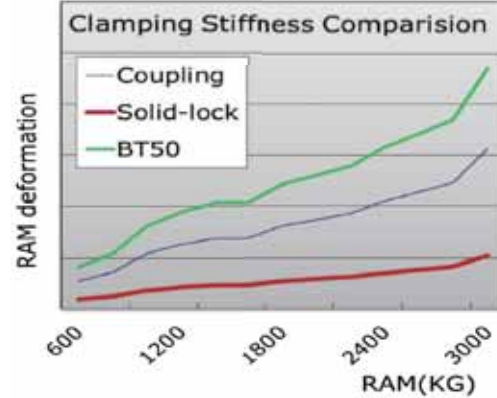


SOLID LOCK (Patent of the U.S, Taiwan and China)



Two face contact
ball clamping anti-vibration
Max. 8,000kg clamping force

• Honor Patent !

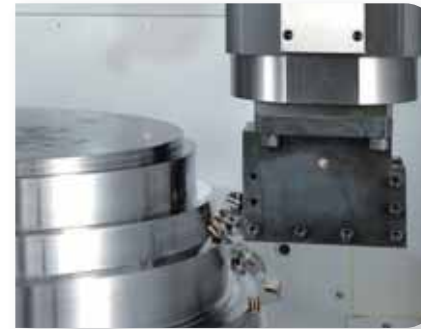


• Max. Clamping force : 8000 kg



■ Milling Capacity

Model	VL-160CM
Spindle motor	11/15 kW
Material	S45C
Milling cutters	Ø100x7
Cutting depth	4.5 mm
Feed rate	720 mm/min
Cutting speed	160 m/min
Material removable rate	320 cm ³ /min



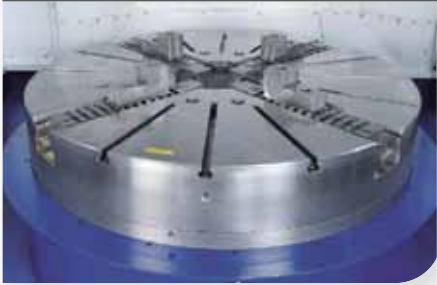
■ Turning Capacity

Model	VL-160CM
Spindle motor	60/75kW(OPTION)
Material	S45C
Cutting depth	13 mm
Feed rate	1.0 mm / rev
Cutting speed	130 m/min
Material removable rate	1690 cm ³ /min

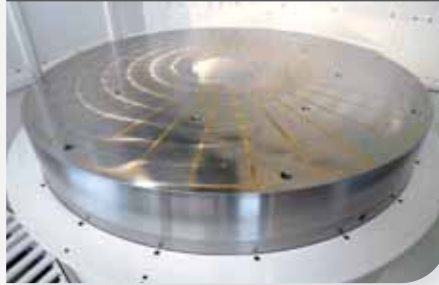


Option

• Hydraulic chuck



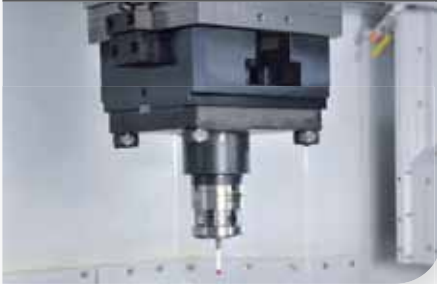
• Magnetic chuck



• Linear encoder



• Touch probe (workpiece inspection)



• Tool presetter



• Siemens controller



• Oil skimmer (disk)



• Air conditioner for electrical cabinet



• Spin window



• Paper type filter



• Oil mist collector



• Thermal compensation



• Grinding function



Option

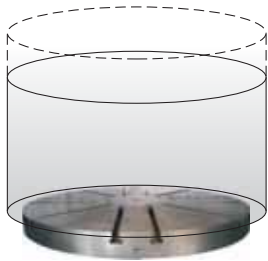
Z-axis travel



●: Standard / ○: Option Unit:mm

MODEL	□220	□250	□300
VL-125C VL-125CM	●900	○900 ○1200	----
VL-160C VL-160CM	●900	○900 ○1200 ○1500	----
VL-200C VL-200CM	----	●1200 ○1500	○1800
VL-250C VL-250CM	----	●1200 ○1500	○1800

Upgraded cross-rail travel



●: Standard / ○: Option Unit:mm

MODEL	Increase height	Space from table tool holder base end
VL-125C	400	1050~1850
VL-125CM	400	1035~1835
VL-160C	600	650~2050
VL-160CM	600	635~2035
VL-200C	500	785~2285
	750	785~2535
VL-200CM	500	785~2285
	750	785~2535
VL-250C	500	785~2285
	750	785~2535
VL-250CM	500	785~2285
	750	785~2535

40 ATC



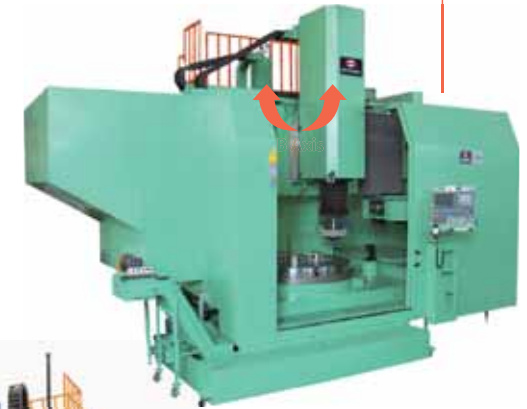
●: Standard / ○: Option

ATC tools	VL-xxx C (Turning)	VL-xxx CM (milling)
12	●	----
16	○	●
20	○	○
24	○	○
L24+R16	----	○
45	○	----
60	○	----

Dual ram



B axis



HB Series (Horizontal Ram)



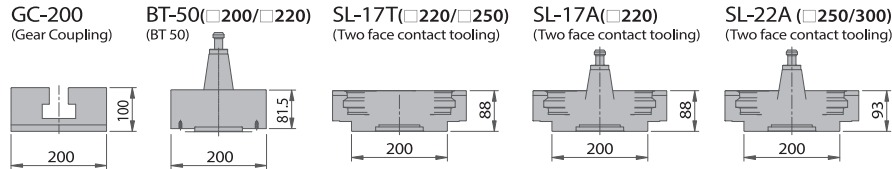
Auto pallet changer

Full enclosed splash guard

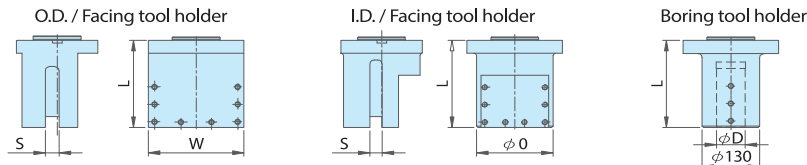


Tool Holder System

Tool holder base :



GC-200 / RG250 / SL-17T / SL-17A / SL-22A Tool holder :

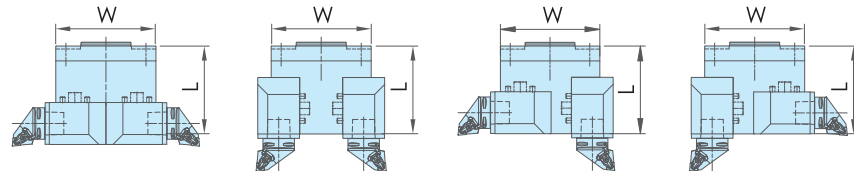


Model	L	S	W	RAM
IDF25-200-200	200	25	200	220
IDF32-200-200	200	32	200	220
IDF32-240-200	200	32	240	250
IDF40-285-200	200	40	285	300

Model	L	S	ϕD
IFL25-120-250	250	25	120
IFL32-130-250	250	32	130
IFL25-160-200	200	25	160
IFL32-160-200	200	32	160

Model	L	ϕD
BOS60-130-160	160	60

Capto Tool holder :



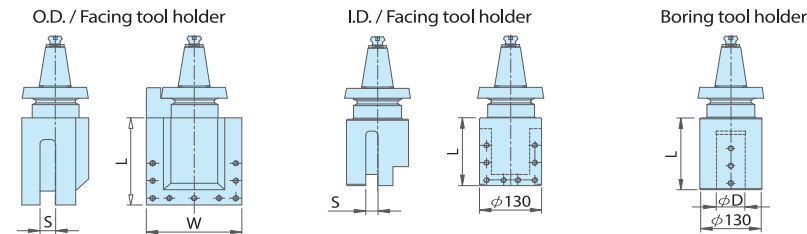
Model	L	W
BDC6-220-200	200	220
BDC6-250-200	200	250

Model	L	W
FDC6-220-200	200	220
FDC6-250-200	200	250

Model	L	W
VHC6-220-200	200	220
VHC6-250-200	200	250

Model	L	W
HVC6-220-200	200	220
HVC6-250-200	200	250

BT50 Tool holder (Option) :



Model	L	S	W	RAM
BT50-IDF25-200-200	200	25	200	220
BT50-IDF32-200-200	200	32	200	220
BT50-IDF32-240-200	200	32	240	250

Model	L	S
BT50-IFL25-130-200	200	25
BT50-IFL32-130-200	200	32

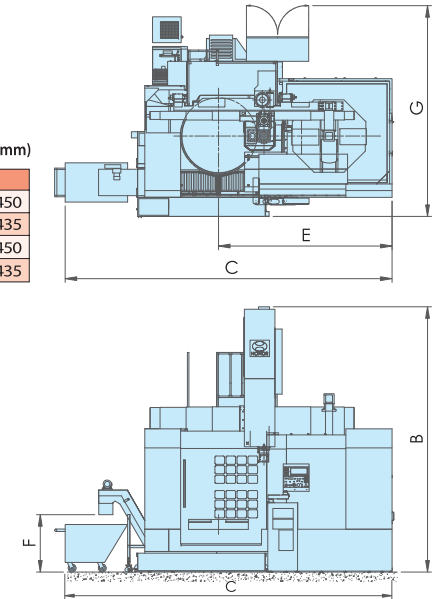
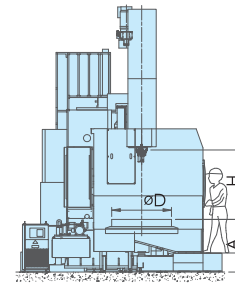
Model	L	ϕD
BT50-BOS40-130-200	200	40
BT50-BOS50-130-200	200	50
BT50-BOS60-130-200	200	60

Machine Dimensions

VL-125/VL-160 series

(unit:mm)

	A	B	C	ϕD	E	F	G	H
VL-125C	1100	5250	6480	$\phi 1250$	3277	1200	4875	650~1450
VL-125CM	1100	5650	6850	$\phi 1250$	3625	1200	4875	635~1435
VL-160C	1100	5250	7035	$\phi 1600$	3500	1200	5175	650~1450
VL-160CM	1100	5650	7380	$\phi 1600$	3825	1200	5175	635~1435



VL-200/VL-250 series

(unit:mm)

	A	B	C	ϕD	E	F	G	H	I
VL-200C	1455	6635	7970	$\phi 2000$	3960	1280	5532	785~1785	6030
VL-200CM	1455	6970	8400	$\phi 2000$	4120	1280	5532	785~1785	6030
VL-250C	1455	6635	8295	$\phi 2500$	3915	1280	5564	785~1785	6030
VL-250CM	1455	6970	8580	$\phi 2500$	4200	1280	5564	785~1785	6030

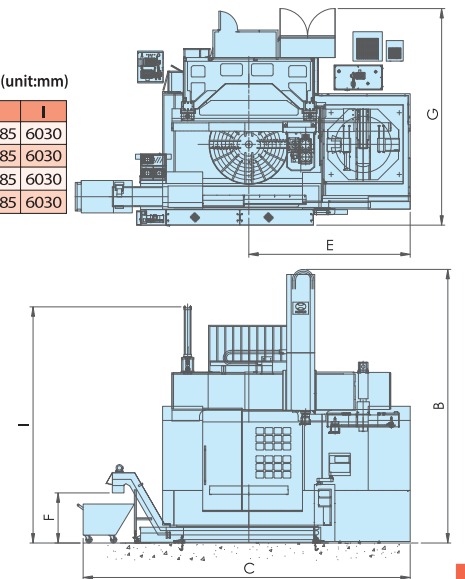
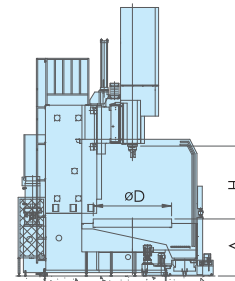
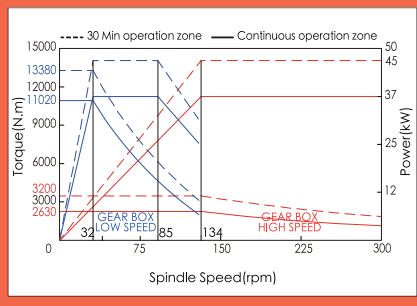
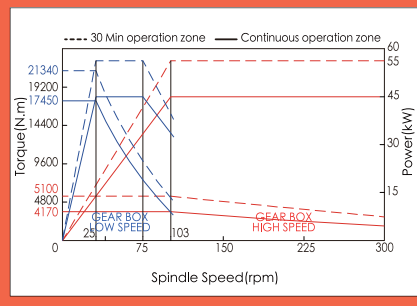


Table Speed, Torque Output Chart

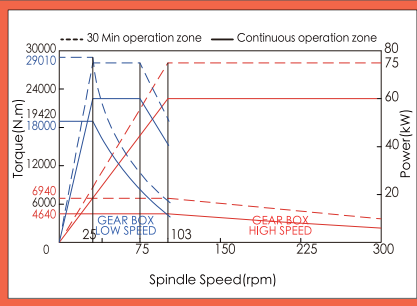
VL-125 Series 37/45kW, 2 steps



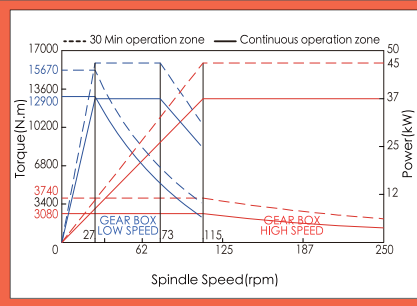
VL-125 Series 45/55kW, 2 steps (Option)



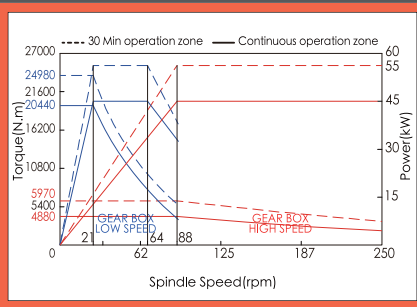
VL-125 Series 60/75kW, 2 steps (Option)



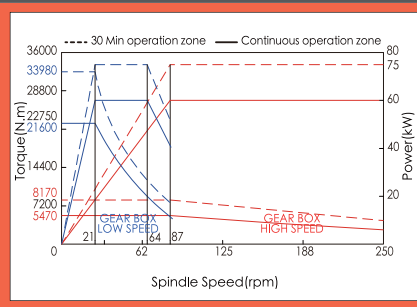
VL-160 Series 37/45kW, 2 steps



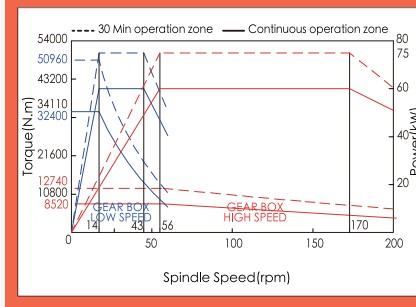
VL-160 Series 45/55kW, 2 steps (Option)



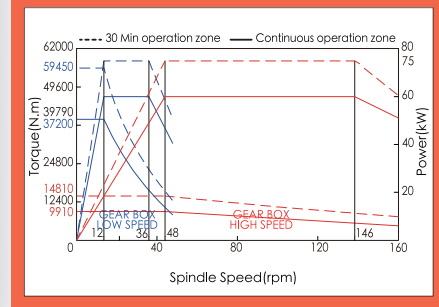
VL-160 Series 60/75kW, 2 steps (Option)



VL-200 Series 60/75kW, 2 steps

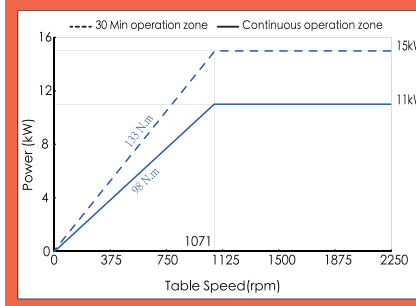


VL-250 Series 60/75kW, 2 steps

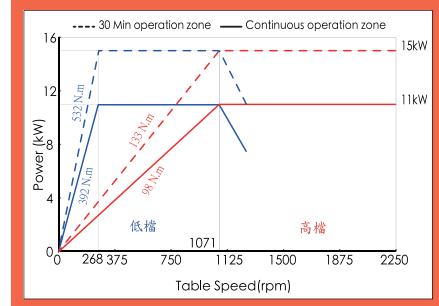


Live Tool Spindle Speed, Torque Output Chart

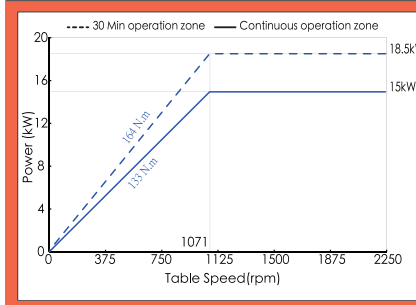
MODEL : α12 11/15kW



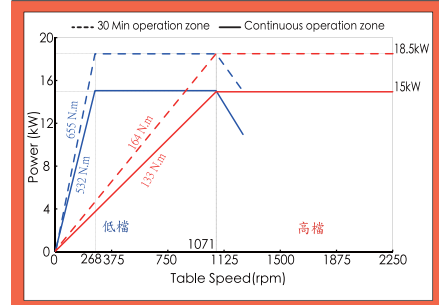
MODEL : α12 11/15kW, 2 steps (Option)



MODEL : α15 15/18.5kW

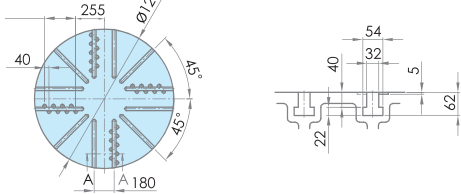


MODEL : α15 15/18.5kW, 2 steps (Option)

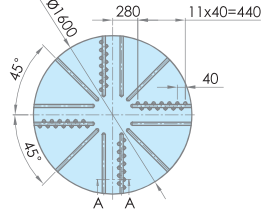


Manual Table Dimensions

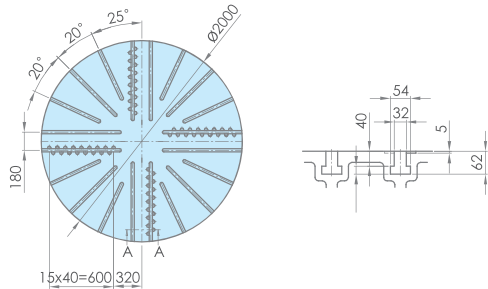
VL-125 Series



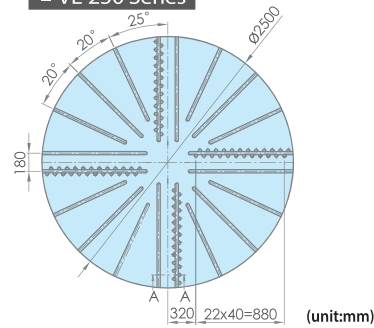
VL-160 Series



VL-200 Series

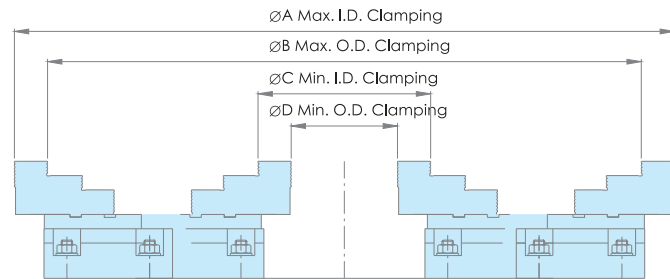


VL-250 Series



(unit:mm)

Workpiece Clamping

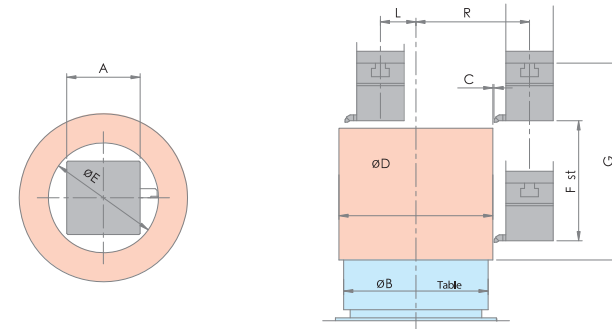


(unit:mm)

Model	A	B	C	D
VL-125	1340	1230	370	250
VL-160	1720	1600	420	300

Model	A	B	C	D
VL-200	2120	2000	750	530
VL-250	2500	2220	750	530

Working Area And Tool Interference



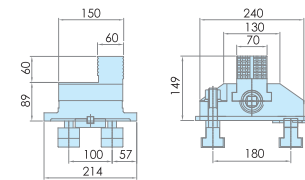
(unit:mm)

Model	A	$\varnothing B$	C	$\varnothing D$	$\varnothing E$	F	G	R	L
VL-125C	220	1250	20	1600	330	900	650~1450	950	200
VL-125CM	220	1250	20	1600	330	900	635~1435	950	200
VL-160C	220	1600	20	2000	330	900	650~1450	1150	200
VL-160CM	220	1600	20	2000	330	900	635~1435	1150	200
VL-200C	250	2000	40	2500	360	1200	785~1785	1450	300
VL-200CM	250	2000	40	2500	360	1200	785~1785	1450	300
VL-250C	250	2000	5	2970	360	1200	785~1785	1650	300
VL-250CM	250	2000	5	2970	360	1200	785~1785	1650	300

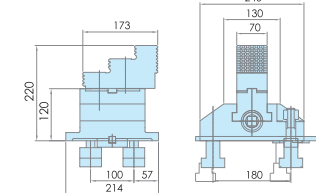
Jaws Dimensions

VL-125,VL-160 Series

F Type

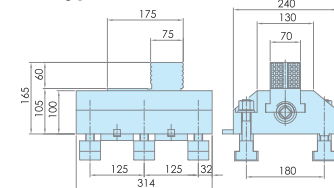


C Type (Standard)

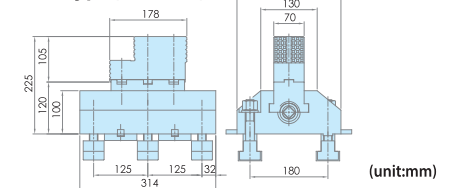


VL-200,VL-250 Series

F Type



C Type (Standard)



(unit:mm)

