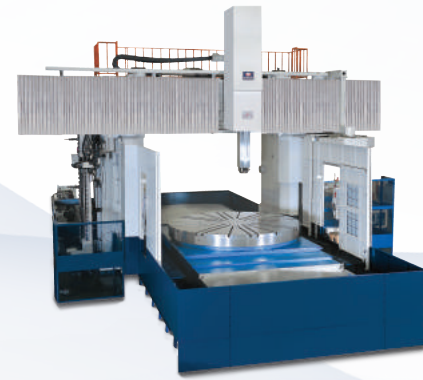




● VL-300~600C/CM



● VL-160~600C/CM-2R



● PL-160~500CM



● VG-160CMG



● VL-66~250C/CM



● VL-46~100A/M/H



● HL-26/32AT



● VG-120~250GN/GB



● VL-66KA2

High Precision / High Efficiency
High Durability / Perfection



YES! WE ARE HONOR!



 **HONOR SEIKI Co., Ltd.**

No. 6, Sec. 2, Chungshan Rd., Hunei Dist., Kaohsiung City, 82942 Taiwan
TEL : +886 7 975 9888 / FAX : +886 7 975 9999
e-mail : honor@honorseiki.com http : //www.honorseiki.com



Agent :

Agent information box

201704 2000



VL-46
VL-66
VL-86
VL-100
HL-32AT

High Speed

CNC Vertical Lathe / CNC Vertical Turning Center

 **HONOR SEIKI Co., Ltd.**

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The Expert Of

Vertical Lathe & Vertical Turning Center



VTL production line with robot

02
B03

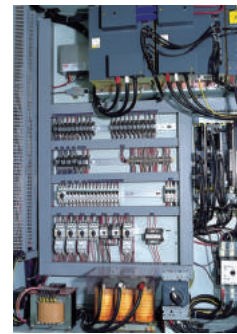
03
B03

Thousands Of Successful Turnkey



Machine Structure

- High flexibility for production arrangement.
- L / R spindle are available.
- Easy for robot connection.



Electrical cabinet

- Easy maintenance circuit arrangement.
- Suitable for all kinds of environment.



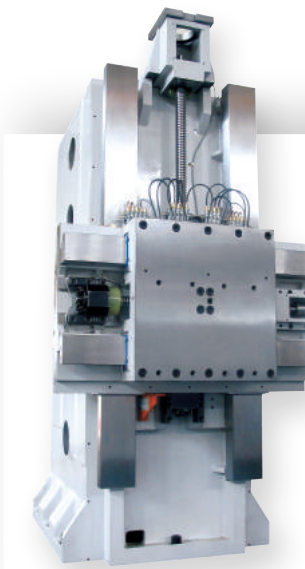
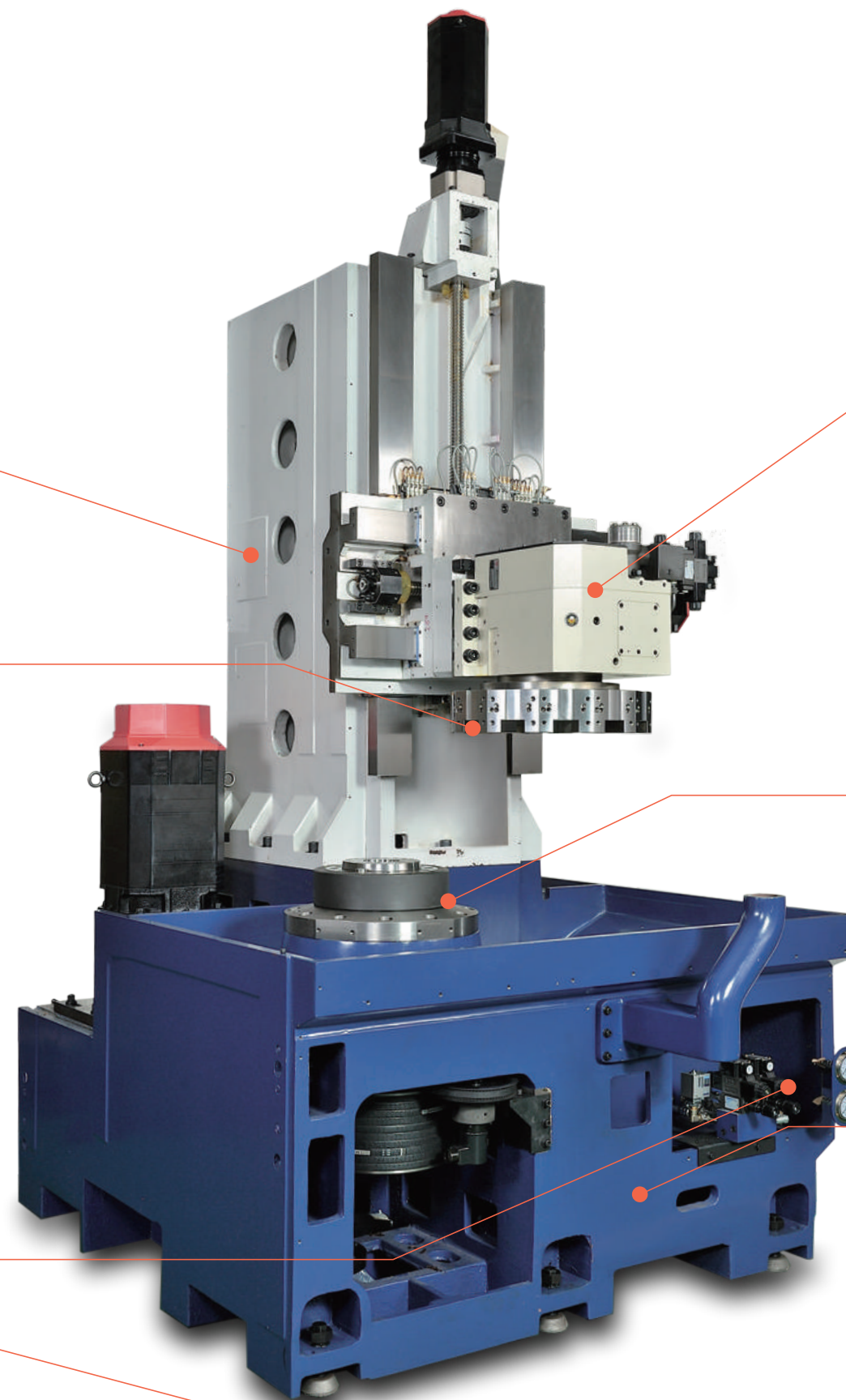
Turret

- H12 turret with strong clamping force and gear curvic coupling that provides high tool changing accuracy and cutting force.
- Full cover guarding keeps chips away.
- Vertical type turret, Gang type turret, and Milling type turret are available.



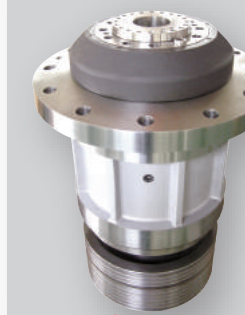
High / Low hydraulic pressure

- Easy access to hydraulic control system.
- Optional High/Low chuck clamping pressure.



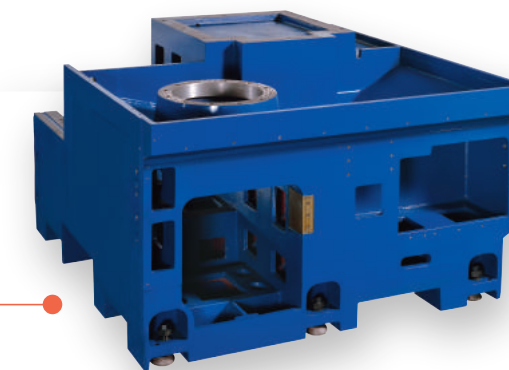
High performance rigidity column

- Wide span column with hardened box way.
- Box way design with Turcite-B coated side way and precision hand scraping.
- 20m/min rapid feed rate.
- Symmetrical axis design ensures high accuracy and long-term stability.



Spindle

- HONOR designed, assembled and tested.
- 100% spindle balancing process offers high durability.
- Symmetrical design absorbs heat variation and maintains long term stability.



Box in box bed

- High-grade Meehanite casting with box in box structure offers high rigidity and stability for long-term heavy cutting.

VL-46 Series

■ VL-46A / VL-46AR / VL-46G / VL-46H / VL-46M



Specification

Max. Spindle Speed : 2500 rpm
Motor (Cont. / 30 min) : 18.5 / 22 kW

- Hydraulic chuck : 305 mm (12inch)
- Number of tool position : 12
- Max. turning diameter : 560mm
- Rapid feed rate (X/Z) : 20/20 m/min
- Machine dimension : 1700 x 3100 x 2855 mm
- Machine weight : 6500 kg
- The above information is for VL-46A only.

VL-66 Series

■ VL-66A / VL-66AR / VL-66G / VL-66H / VL-66M

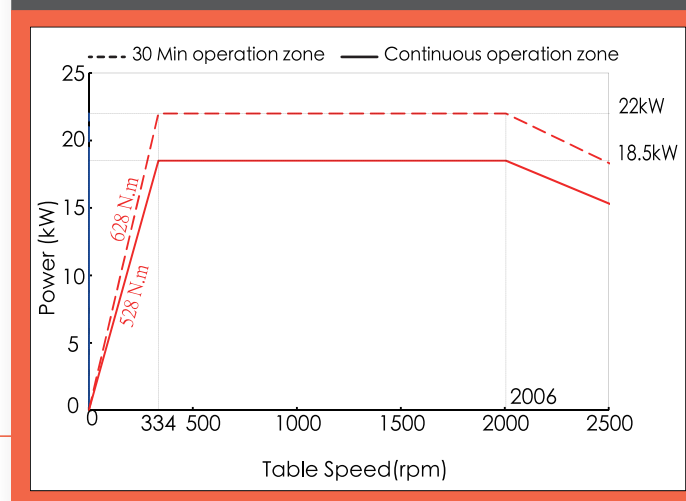


Specification

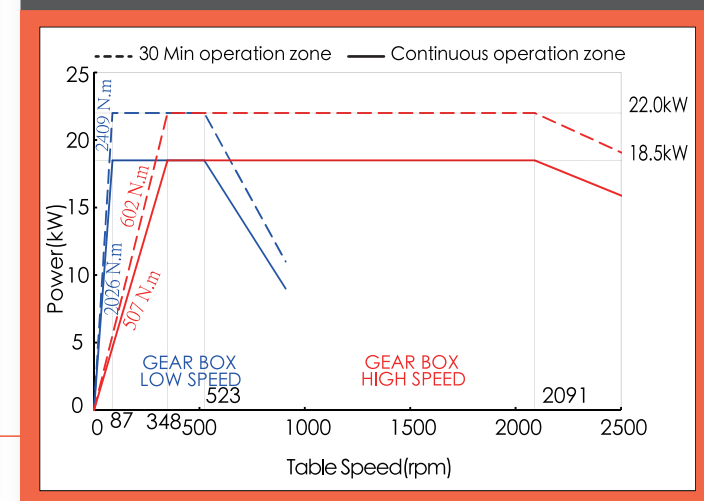
Max. Spindle Speed : 2000 rpm
Motor (Cont. / 30 min) : 18.5 / 22 kW

- Hydraulic chuck : 457 mm (18inch)
- Number of tool position : 12
- Max. turning diameter : 760mm
- Rapid feed rate (X/Z) : 20/20 m/min
- Machine dimension : 1950 x 3410 x 3450 mm
- Machine weight : 11500kg
- The above information is for VL-66A only.

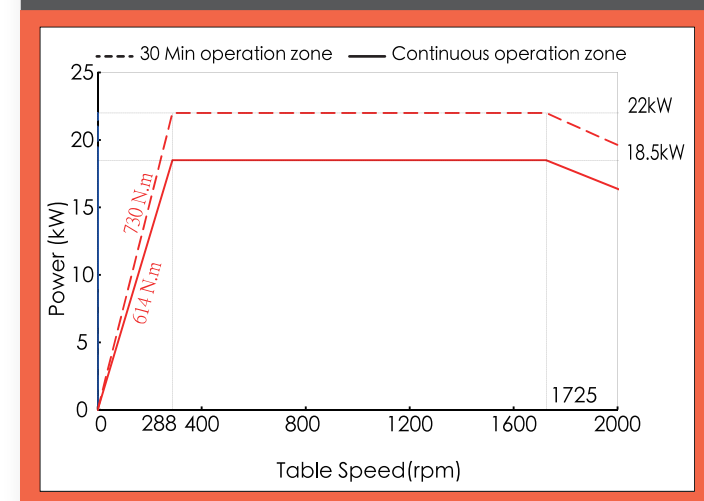
■ Spindle Power-torque : aip40 18.5/22kW



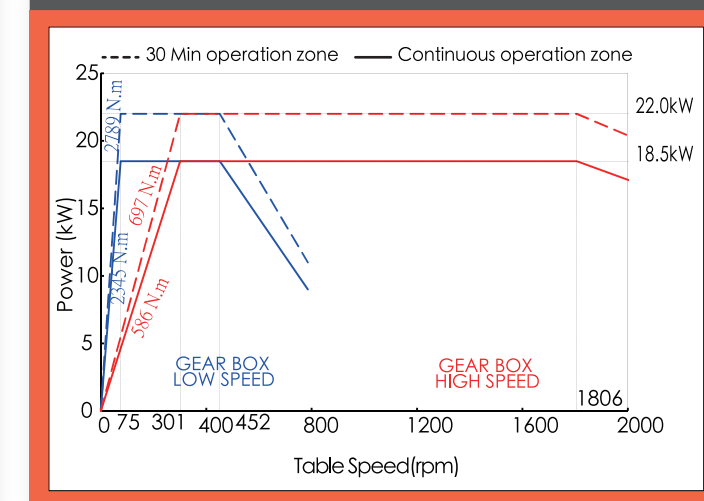
■ Spindle Power-torque : aip40 18.5/22kW,2 steps (Option)



■ Spindle Power-torque : aip40 18.5/22kW



■ Spindle Power-torque : aip40 18.5/22kW,2 steps (Option)



VL-86 Series

■ VL-86A / VL-86AR / VL-86G / VL-86H / VL-86M



Specification

Max. Spindle Speed : 1500 rpm
Motor (Cont. / 30 min) : 18.5 / 22 kW

- Hydraulic chuck : 533mm (21inch)
- Number of tool position : 12
- Max. turning diameter : 860mm
- Rapid feed rate (X/Z) : 20/20 m/min
- Machine dimension : 2100 x 3500 x 3900 mm
- Machine weight : 14500 kg
- The above information is for VL-86A only.

VL-100 Series

■ VL-100A / VL-100M

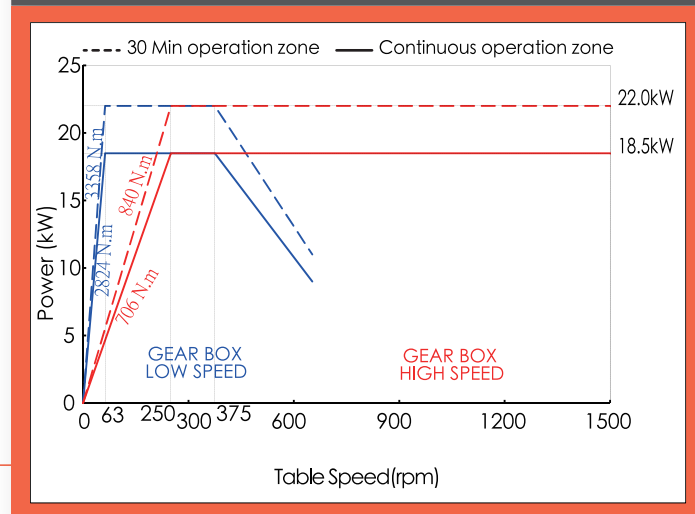


Specification

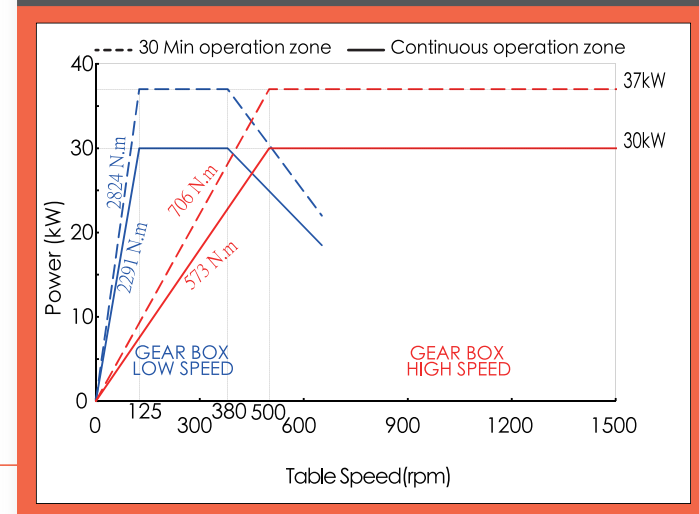
Max. Spindle Speed : 850 rpm
Motor (Cont. / 30 min) : 37 / 45 kW

- Manual chuck : 1000mm (40inch)
- Number of tool position : 12
- Max. turning diameter : 1000mm
- Rapid feed rate (X/Z) : 20/20 m/min
- Machine dimension : 2700 x 4000 x 4050 mm
- Machine weight : 21000kg
- The above information is for VL-100A only.

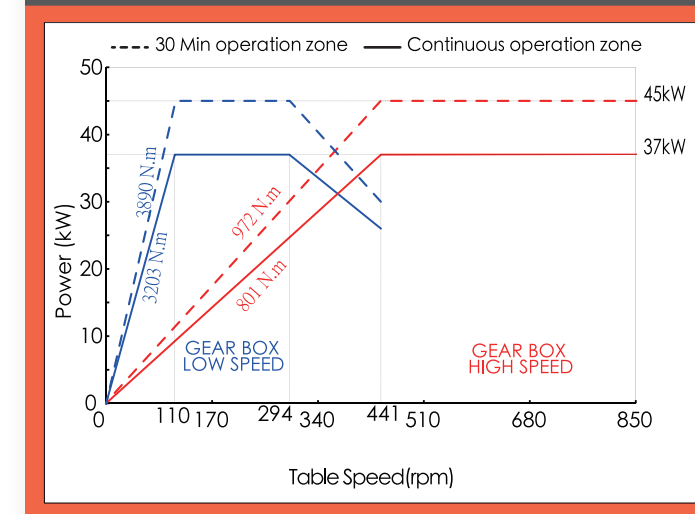
■ Spindle Power-torque : aip40 18.5/22kW,2 steps (Option)



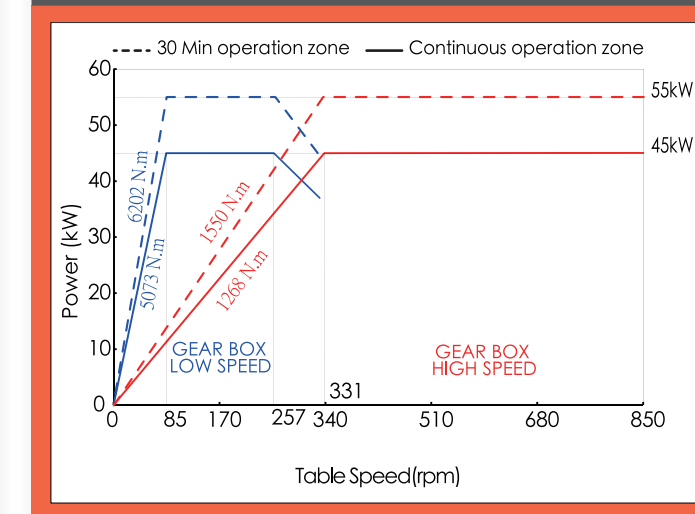
■ Spindle Power-torque : a30 30/37kW,2 steps (Option)



■ Spindle Power-torque : a40 37/45kW,2 steps



■ Spindle Power-torque : a50 45/55kW,2 steps (Option)

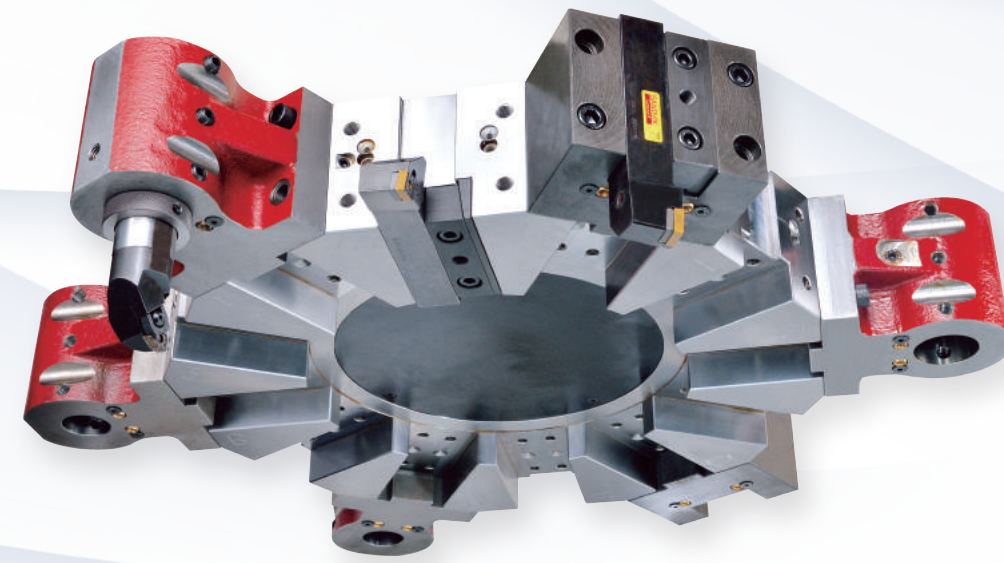


Flexible Turret Application

Horizontal type turret (H8, H12)

■ Available for: VL-46A, VL-66A, VL-86A, VL-100A

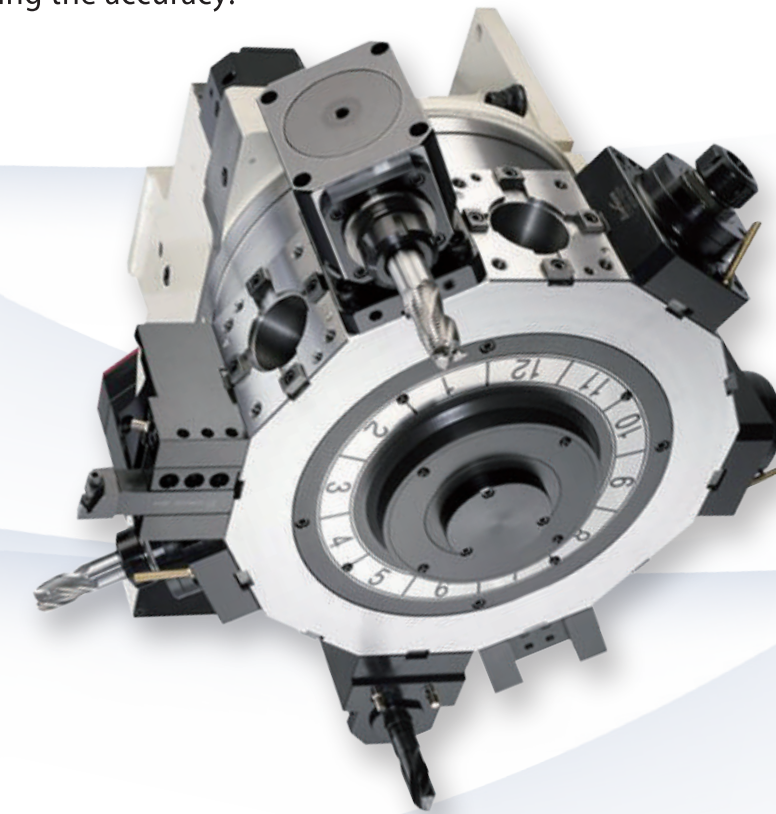
Compact design and high durability, suitable for heavy cutting. High speed tool-disc rotation and smooth tool-disc clamping/unclamping to optimize the production efficiency. Particular for automotive components, like brake disc, wheel hub, knuckle...etc.



Milling type turret (BMT, VDI)

■ Available for: VL-46M, VL-66M, VL-86M, VL-100M

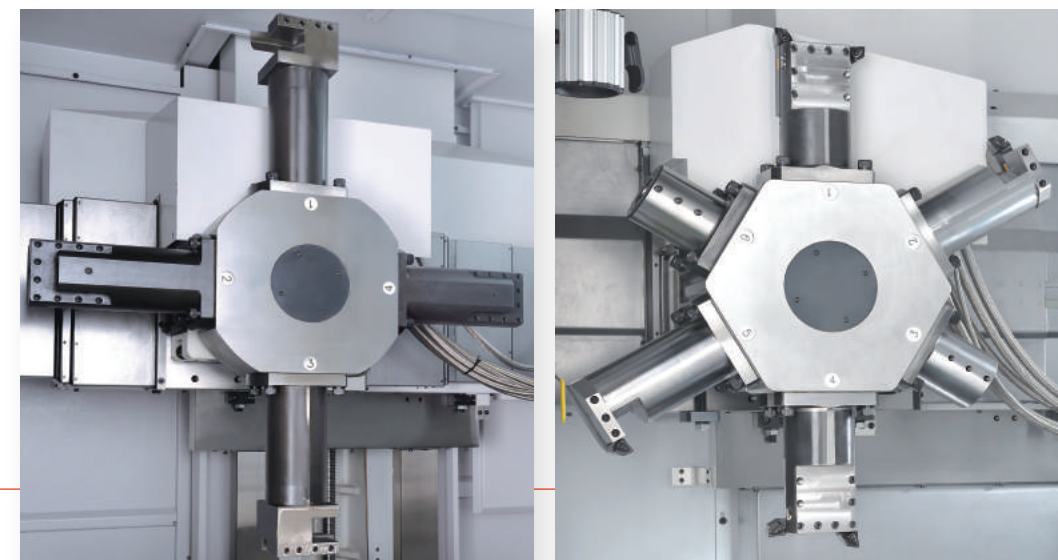
Make drilling and tapping function in turning machine. Reduce the numbers of operations, saving the set up time and increasing the accuracy.



Vertical type turret (V4, V6)

■ Available for: VL-46H, VL-66H, VL-86H

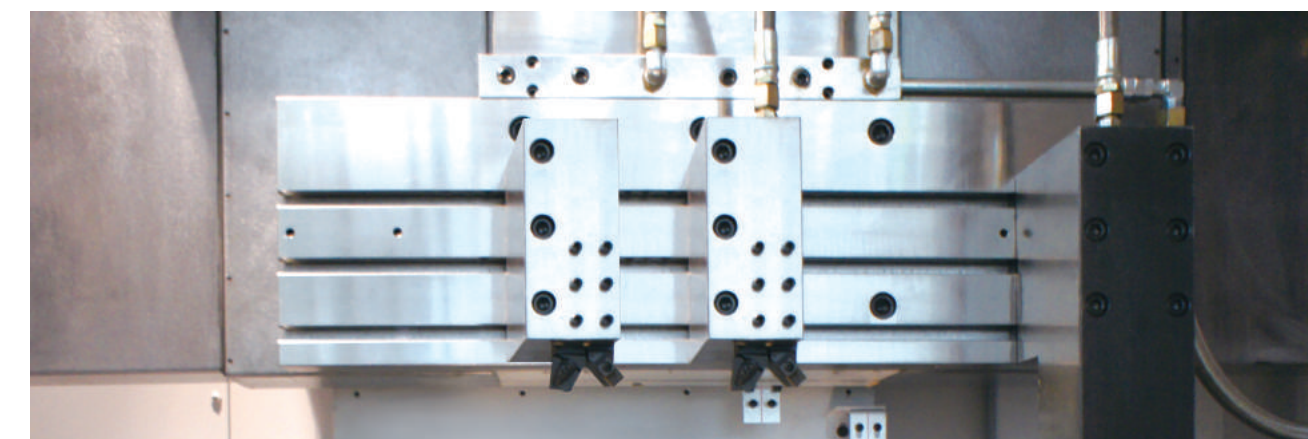
High rigid and high durability design, especially for brake drum, motor frame and valve.



Gang type turret (G5)

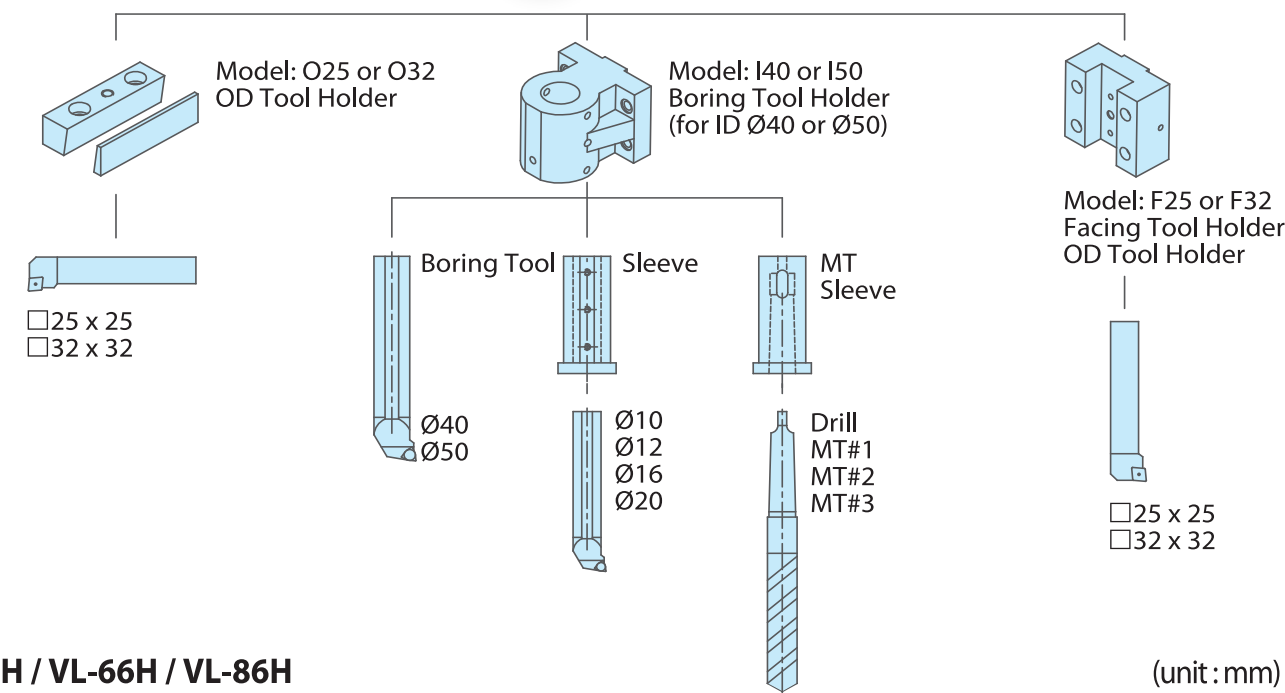
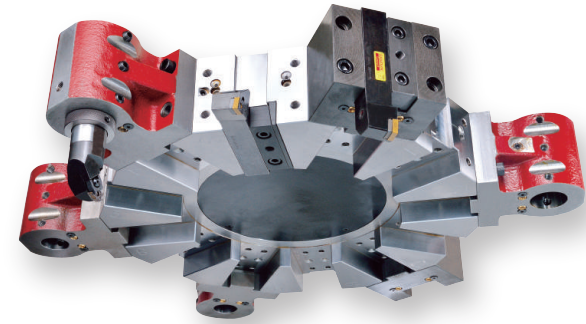
■ Available for: VL-46G, VL-66G, VL-86G

Flexible tool system design, save turret indexing clamping and unclamping time to maximize production capacity. Suitable for mass production line, particular for automotive components.

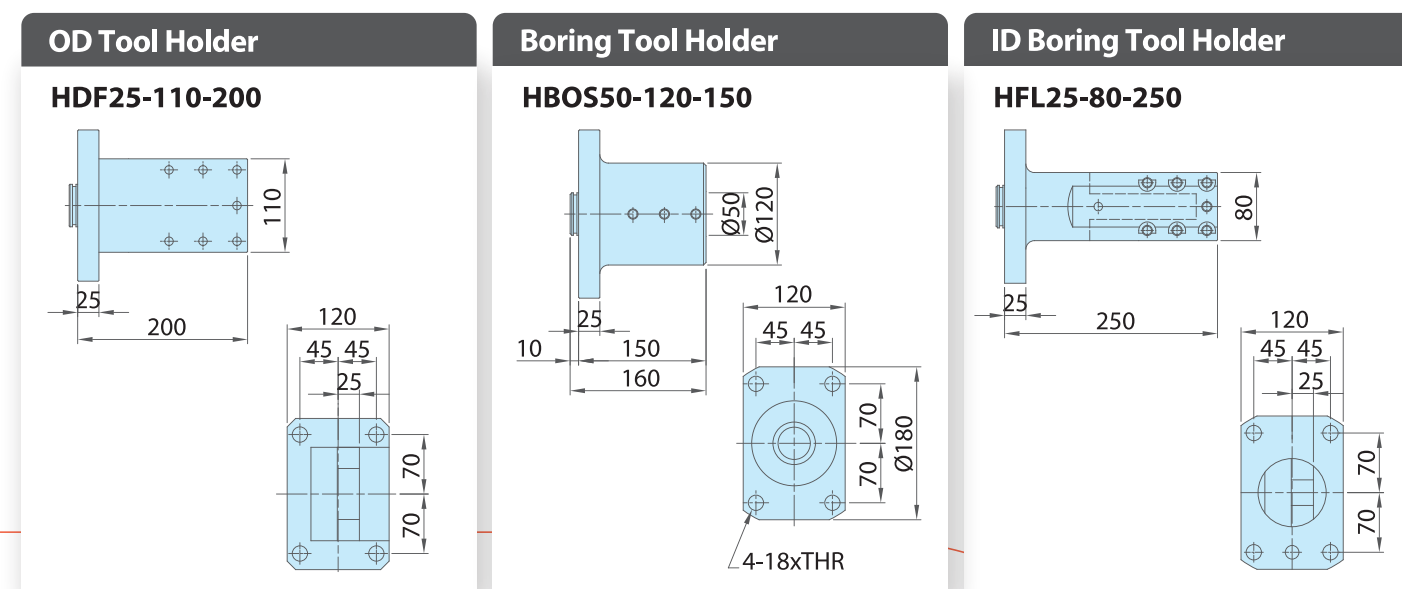


Tooling System

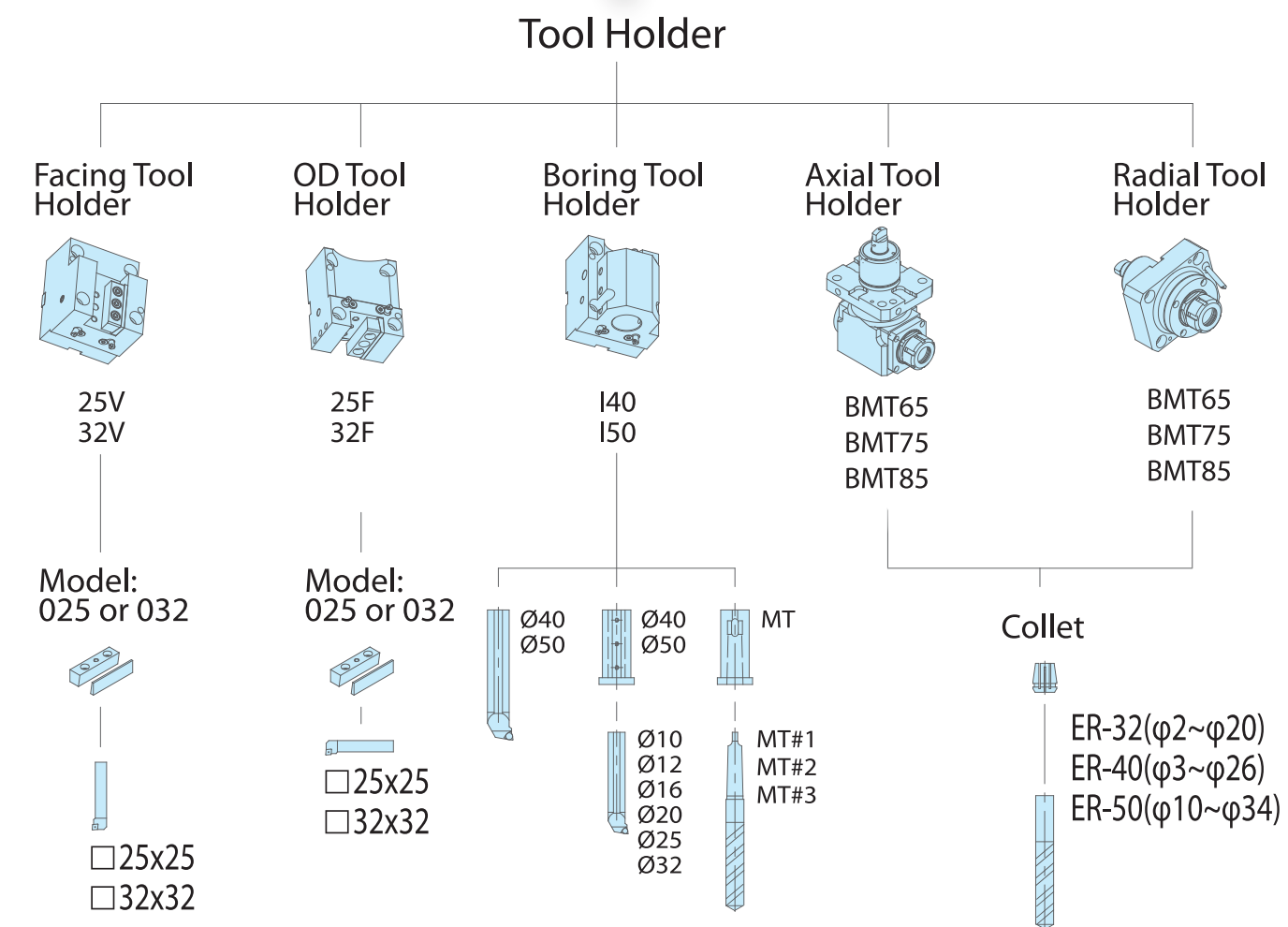
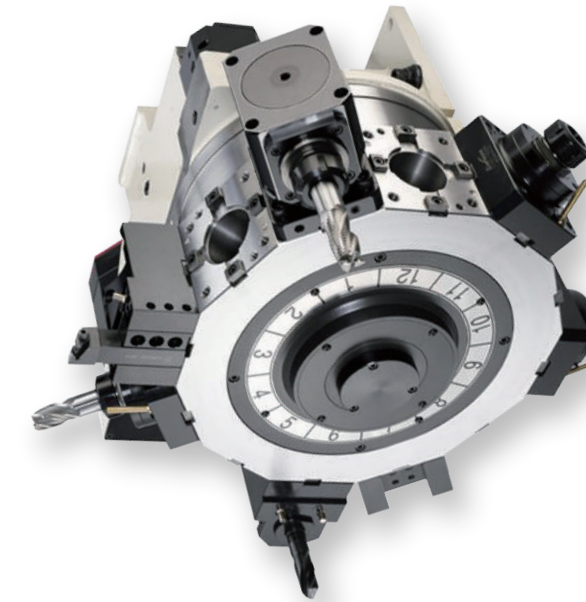
■ VL-46A / VL-66A / VL-86A / VL-100A



■ VL-46H / VL-66H / VL-86H

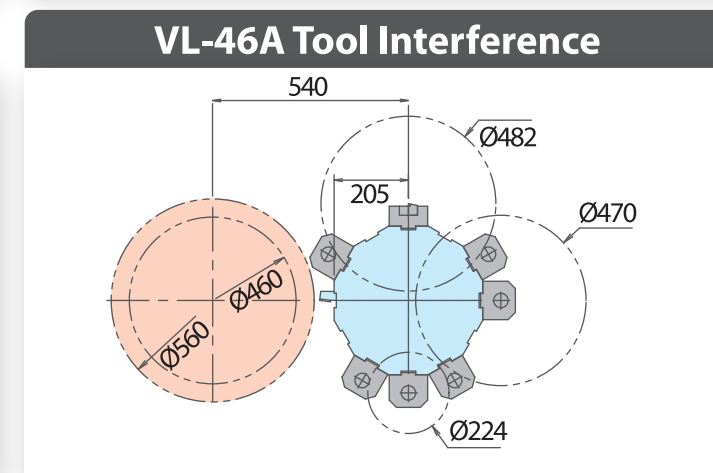
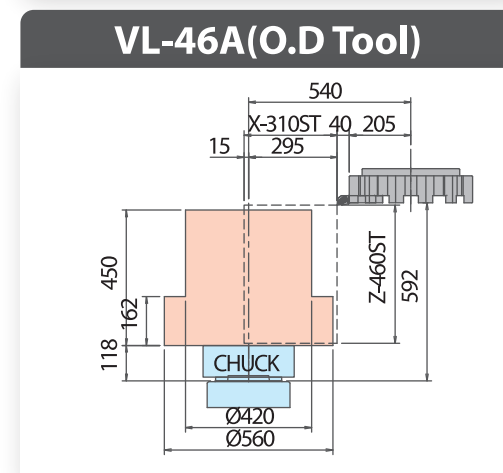
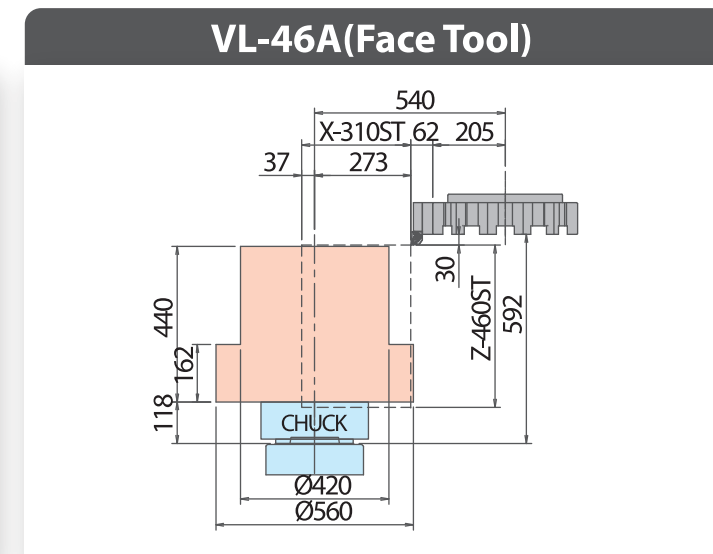
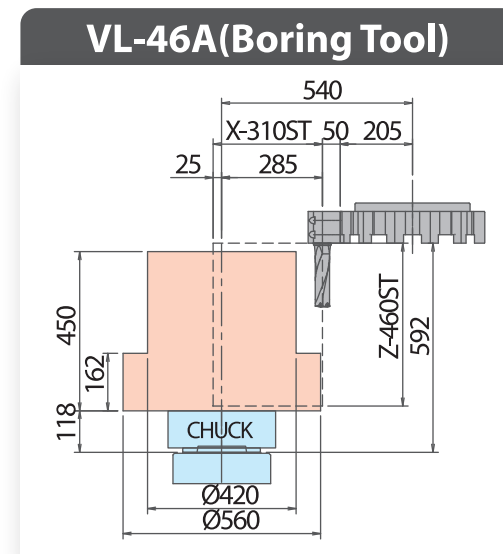


■ VL-46M / VL-66M / VL-86M / VL-100M

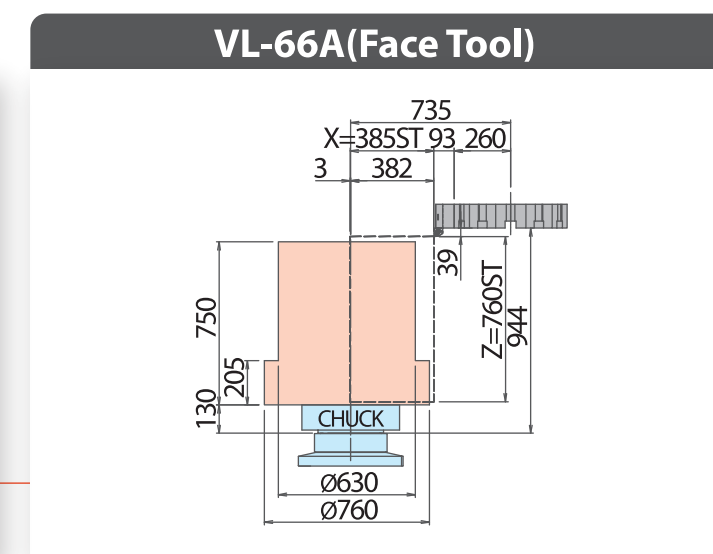
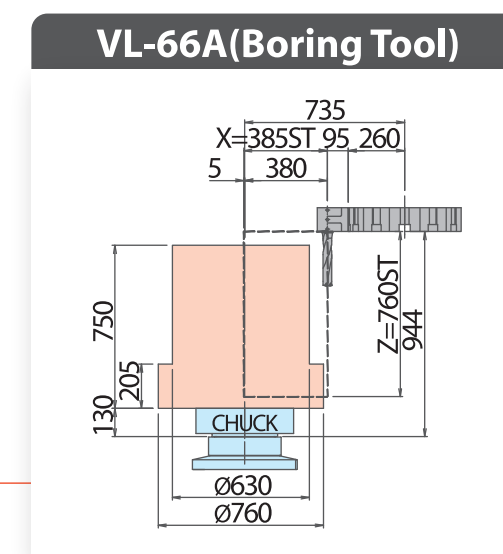


Working Area & Tool Interference

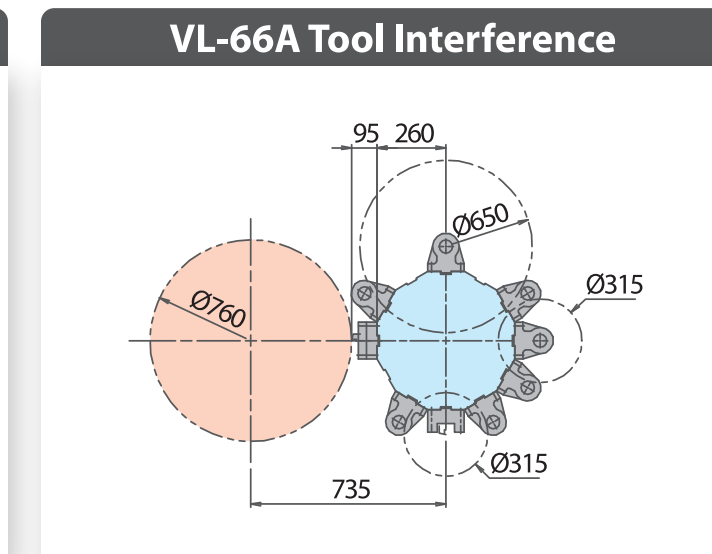
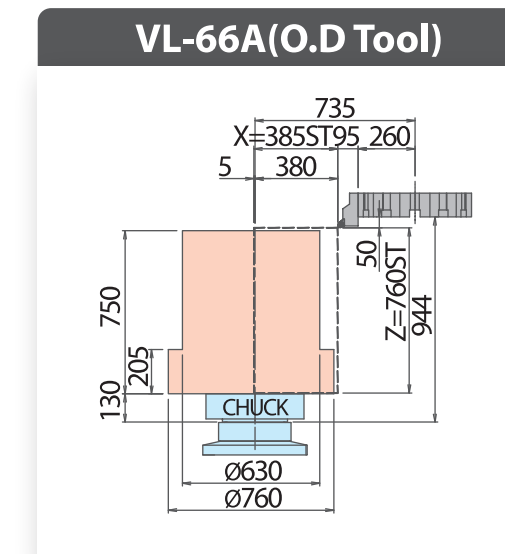
■ VL-46A (unit: mm)



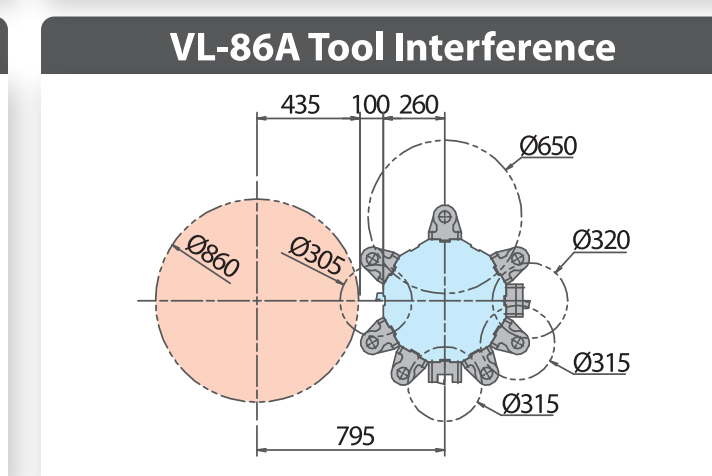
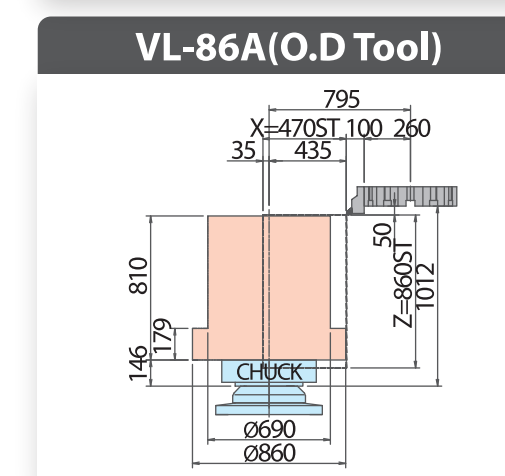
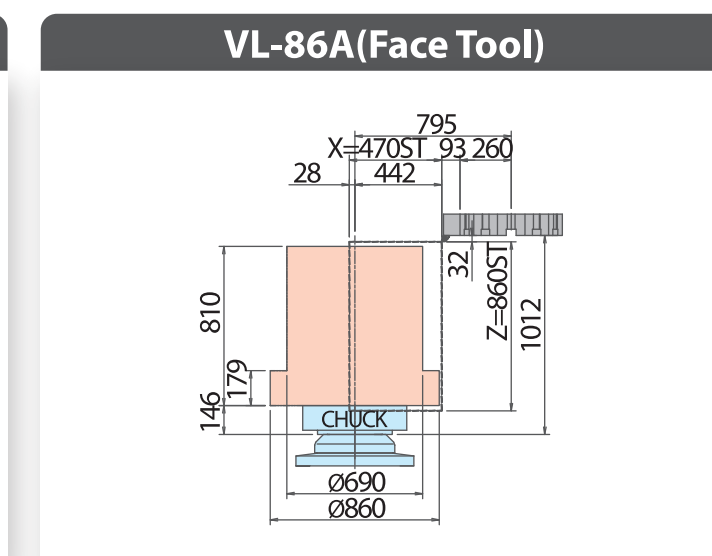
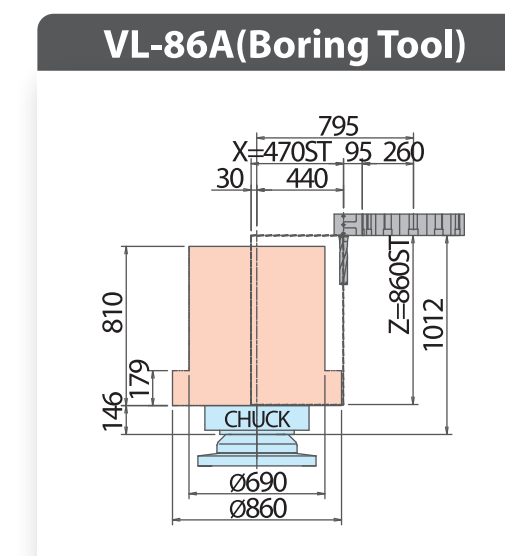
■ VL-66A (unit: mm)



■ VL-66A (unit: mm)

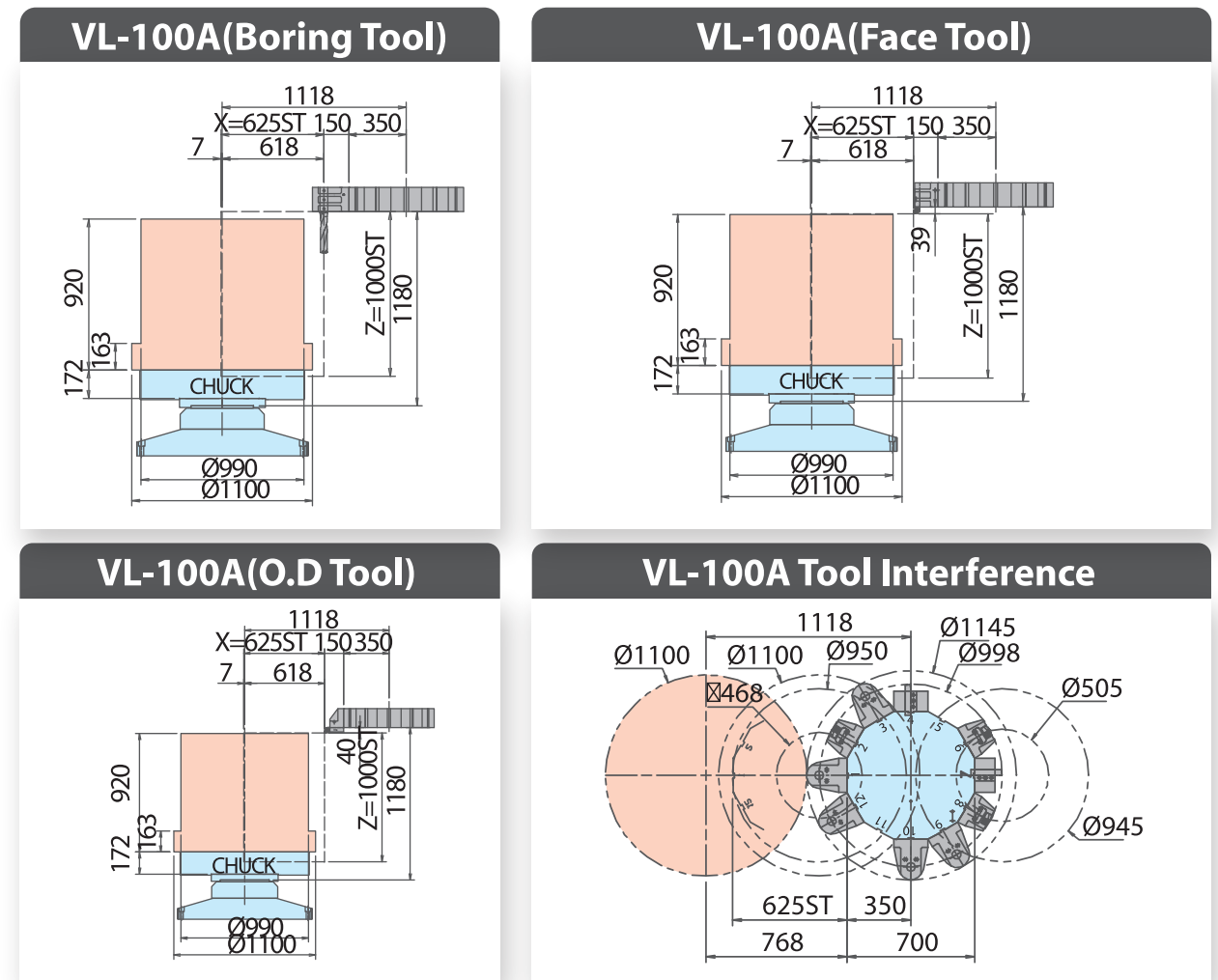


■ VL-86A (unit: mm)

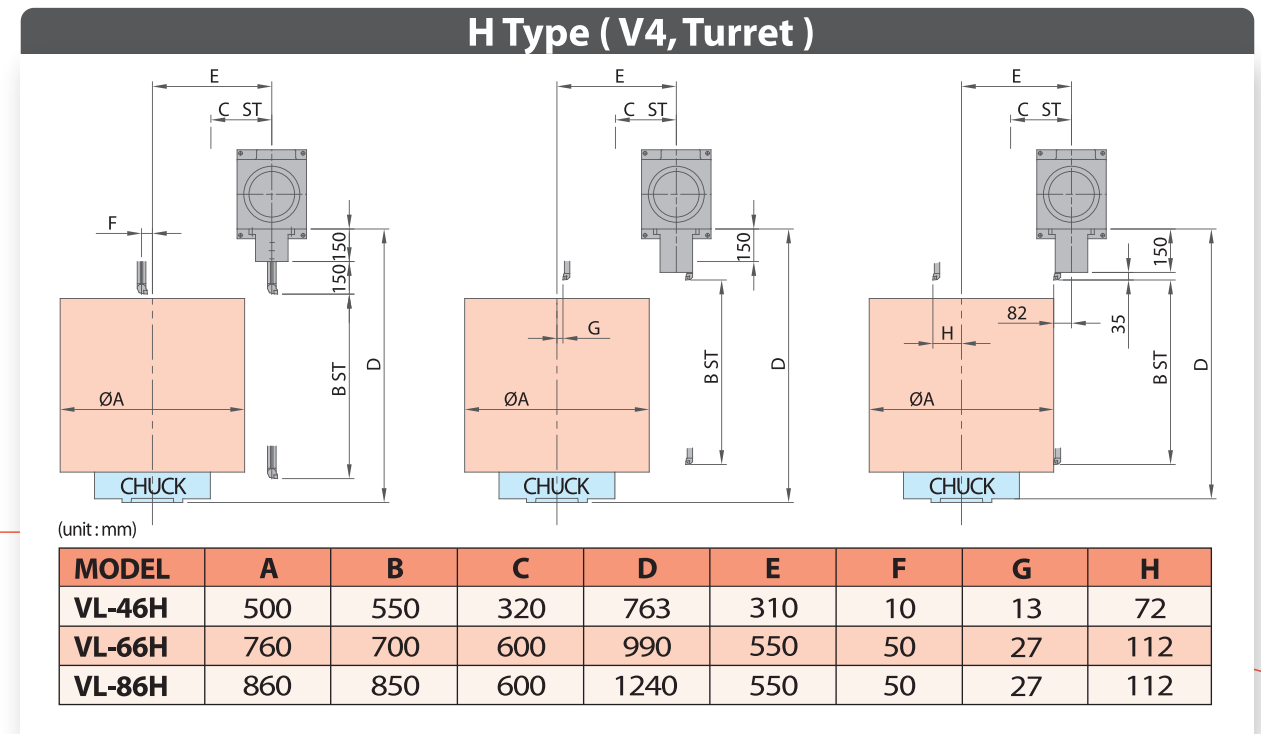


Working Area & Tool Interference

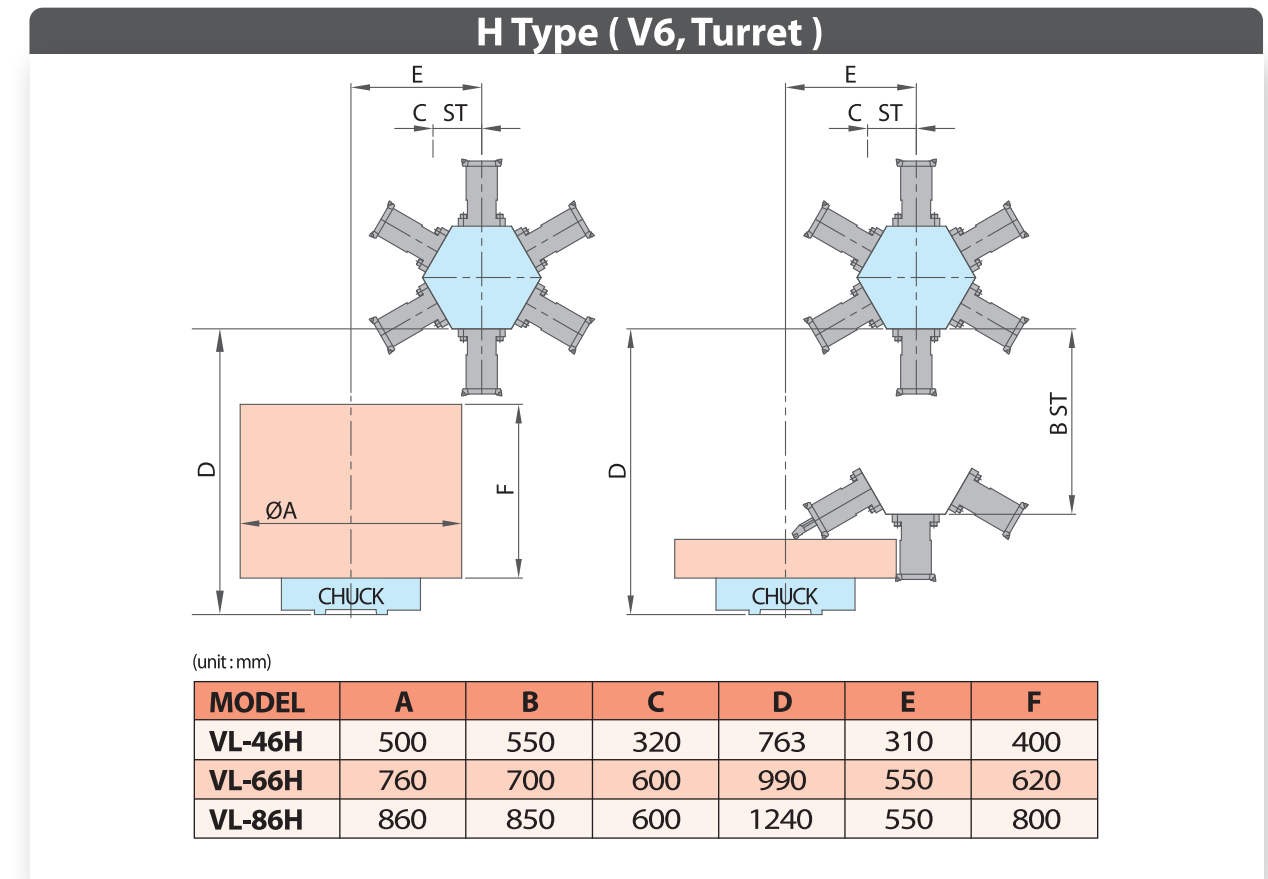
VL-100A (unit: mm)



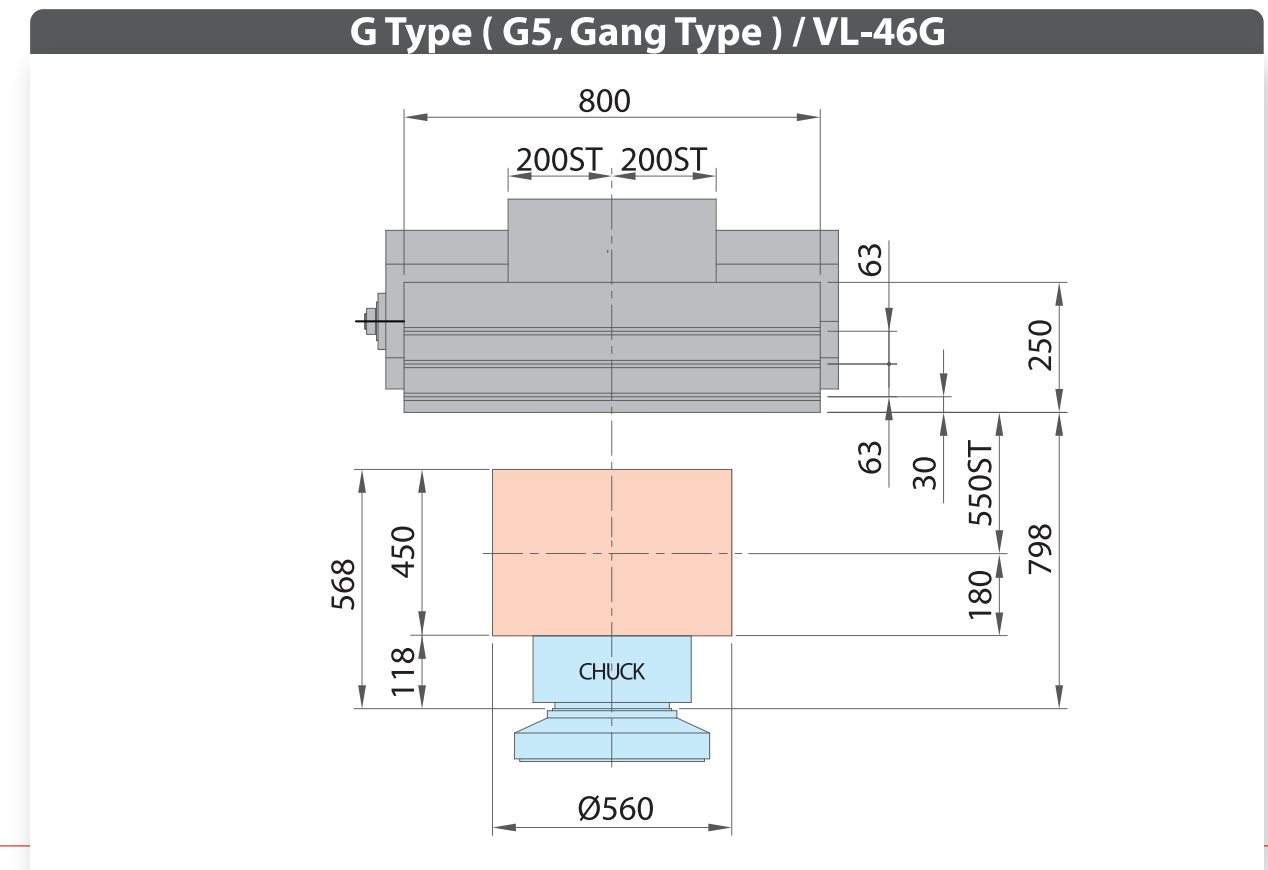
VL-46H / 66H / 86H (unit: mm)



VL-46H / 66H / 86H (unit: mm)

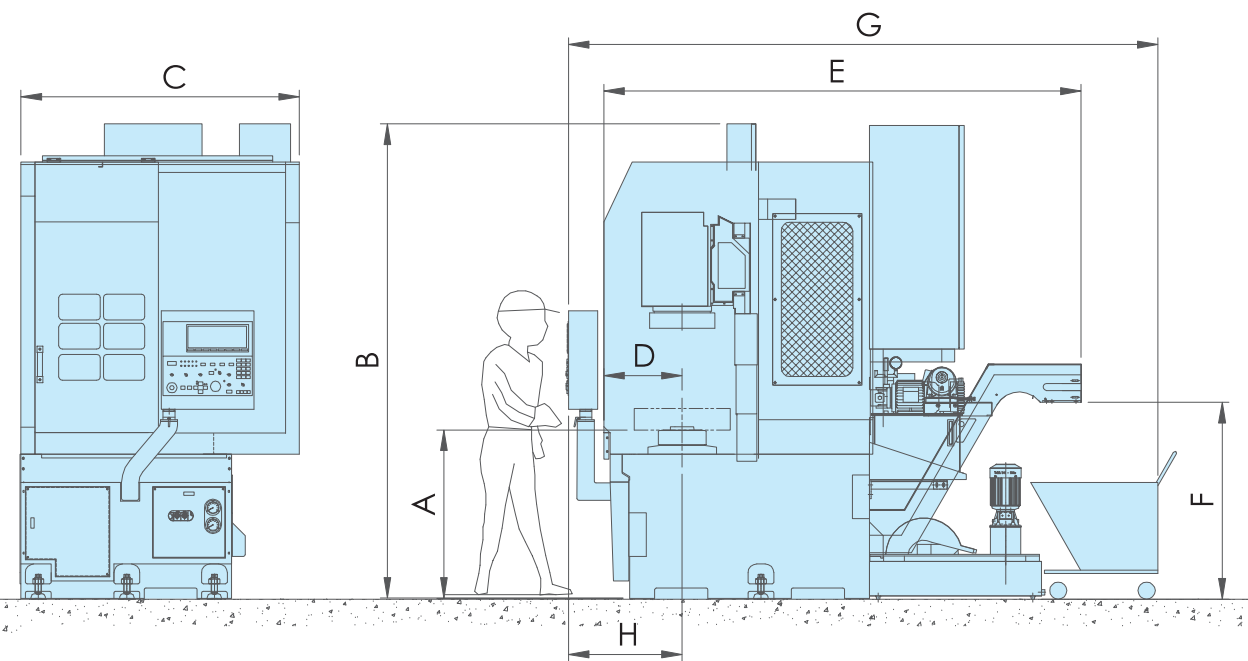


VL-46G (unit: mm)



Machine Dimensions

VL-46 / VL-66 / VL-86 / VL-100 Series



(unit:mm)

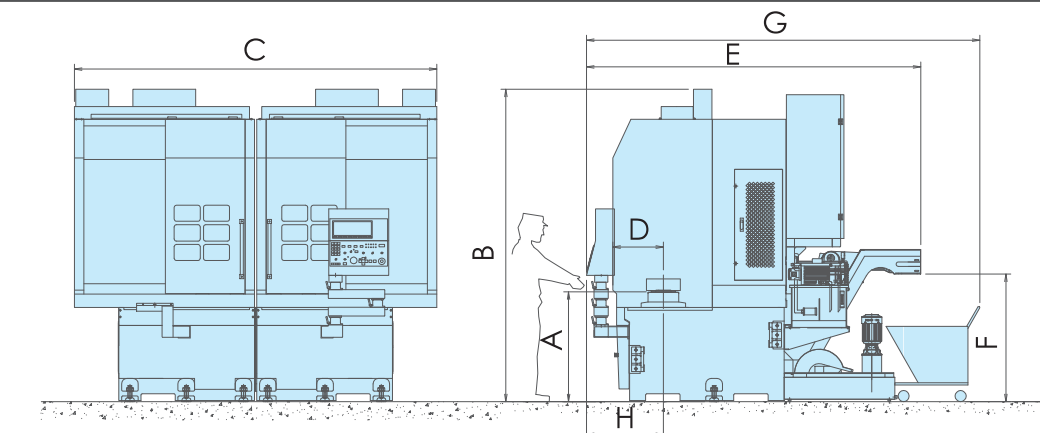
| | A | B | C | D | E | F | G | H |
|---------|------|------|------|-----|------|------|------|------|
| VL-46A | 990 | 2855 | 1620 | 457 | 2780 | 1140 | 3430 | 650 |
| VL-66A | 1080 | 3440 | 1950 | 505 | 2980 | 1200 | 3670 | 710 |
| VL-86A | 1200 | 3900 | 2100 | 655 | 3288 | 1200 | 3870 | 860 |
| VL-100A | 1250 | 4042 | 2710 | 755 | 3700 | 1250 | 4230 | 1030 |
| VL-46H | 980 | 2970 | 1700 | 453 | 2733 | 975 | 3432 | 630 |
| VL-66H | 1175 | 3680 | 2030 | 575 | 3180 | 1015 | 3885 | 845 |
| VL-86H | 1175 | 4000 | 2030 | 575 | 3180 | 1013 | 3885 | 845 |
| VL-100H | 1250 | 4045 | 3000 | 755 | 3700 | 1015 | 4230 | 1030 |
| VL-46G | 980 | 2950 | 2220 | 400 | 2670 | 975 | 3435 | 630 |
| VL-66G | 1175 | 3680 | 2070 | 575 | 3180 | 1015 | 3885 | 845 |
| VL-86G | 1175 | 4000 | 2070 | 575 | 3180 | 1015 | 3885 | 845 |
| VL-100G | 1250 | 4042 | 2710 | 755 | 3700 | 1250 | 4230 | 1030 |
| VL-46M | 990 | 2815 | 1620 | 457 | 2780 | 1140 | 3430 | 650 |
| VL-66M | 1080 | 3450 | 1950 | 505 | 2980 | 1200 | 3670 | 710 |
| VL-86M | 1200 | 3872 | 2100 | 655 | 3288 | 1200 | 3870 | 860 |
| VL-100M | 1250 | 4042 | 2710 | 755 | 3700 | 1250 | 4230 | 1030 |

Machine Dimensions

VL-46AT / VL-46MT / VL-66AT / VL-66MT / VL-86AT / VL-86MT



VL-46/66/86 Twin Series



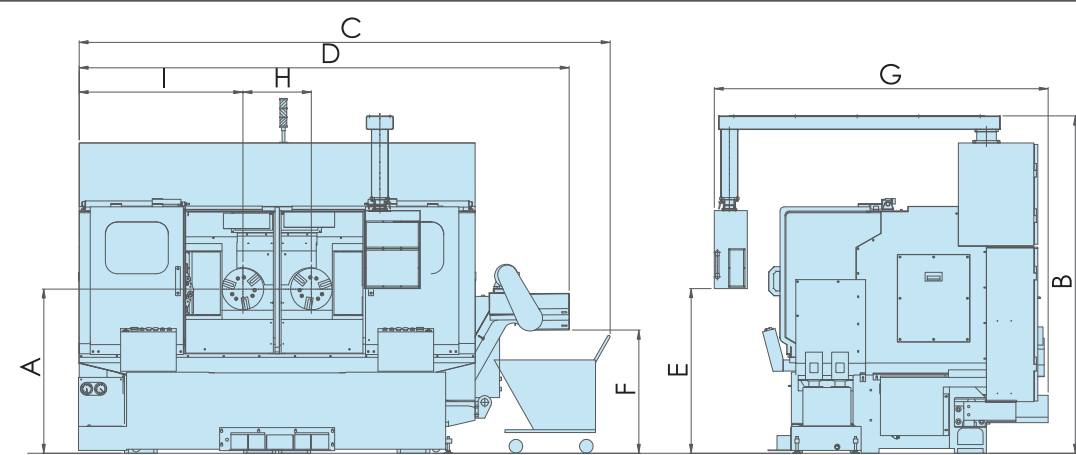
(unit:mm)

| | A | B | C | D | E | F | G | H |
|------------|------|------|------|-----|------|------|------|-----|
| VL-46AT/MT | 990 | 2855 | 3240 | 457 | 2780 | 1140 | 3430 | 650 |
| VL-66AT/MT | 1080 | 3440 | 3900 | 505 | 2980 | 1200 | 3670 | 710 |
| VL-86AT/MT | 1200 | 3900 | 4200 | 655 | 3288 | 1200 | 3870 | 860 |

Machine Dimensions



HL-26 / 32 Twin Series



(unit: mm)

| | A | B | C | D | E | F | G | H | I |
|---------|------|------|------|------|------|-----|------|-----|------|
| HL-26AT | 1150 | 2030 | 3460 | 3160 | 1126 | 865 | 1900 | 460 | 970 |
| HL-32AT | 1200 | 2465 | 3800 | 3180 | 1205 | 900 | 2440 | 500 | 1195 |

Option

■ Siemens controller



■ Air conditioner for electrical cabinet



■ 2-Speed gear box



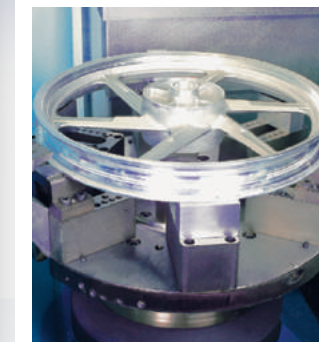
■ Fully protection telescopic cover



■ Oil mist collector



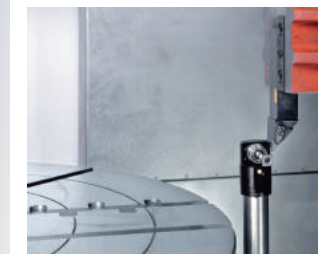
■ Finger hydraulic chuck



■ Second control box



■ Tool presetter



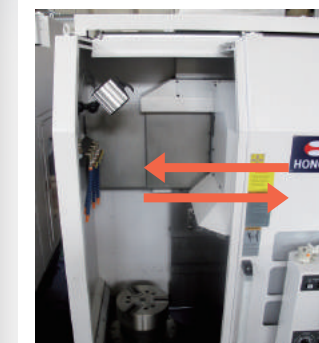
■ Double cutting



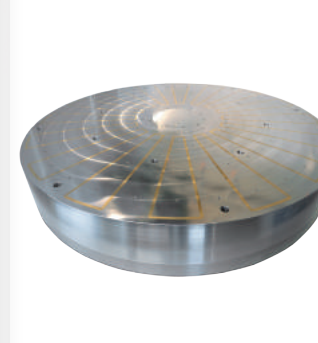
■ Oil skimmer (Disk)



■ Auto door



■ Magnetic chuck



Machine Specifications

| Model / Descriptions | | Unit | VL-46A/AR | VL-46AT | VL-46G | VL-46H | VL-46M | VL-46MT | VL-66A/AR | VL-66AT | VL-66H |
|----------------------|-----------------------------|----------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|-----------------------------|------------------------------|-----------------------------|-------------|
| Capacity | Max. swing diameter | mm(inch) | 560 (22") | | 600 (23.6") | 650 (25.6") | 560 (22") | | 800 (31.4") | 800 (31.4") | 850 (33.4") |
| | Max. turning diameter | mm(inch) | 560 (22") | | 560 (22") | 560 (22") | 560 (22") | | 760 (29.9") | 760 (29.9") | 760 (29.9") |
| | Standard turning diameter | mm(inch) | 420 (16") | | 560 (22") | 500 (19.7") | 520 (20.5") | | 630 (24") | 630 (24") | 760 (29.9") |
| | Max. turning height | mm(inch) | 450 (17.7") | | 450 (17.7") | 400 (15.7") | 380 (14.9") | | 750 (29.5") | 750 (29.5") | 620 (24.4") |
| Spindle | Hydraulic chuck | mm(inch) | 305 (12") | | | | 305 (12") | | 457 (18") | 457 (18") | 457 (18") |
| | Range of table speed | rpm | 25-2500 | | | | 25-2500 | | 25-2000 | 25-2000 | 25-2000 |
| | Front bearing diameter | mm | 120 | | | | 120 | | 160 | 160 | 160 |
| | Nose of spindle | | A2-8 | | | | A2-8 | | A2-11 | A2-11 | A2-11 |
| Tool turret | Type of turret | - | H12 | H12+H12 | G5 | V4/V6/V8 | H12 (BMT65) | H12+H12 (BMT65) | H12 | H12+H12 | V4/V6/V8 |
| | Number of tool position | ea | 12 | 12+12 | 5 | 4/6/8 | 12 | 12+12 | 12 | 12+12 | 4/6/8 |
| | Tool size | mm | □25, □32, Ø40 | | □25, □32, Ø40 | □25, □32, Ø40 | □25, Ø40 | | □25, □32, Ø40, Ø50 | □25, □32, Ø40, Ø50 | |
| | Tool live spindle speed | | - | | - | - | 3000 | 3000 | - | - | - |
| Feed | Rapid rate (X-Axis) | m/mim | 20 | | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Rapid rate (Z-Axis) | m/mim | 20 | | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Horizontal travel (X-Axis) | mm | 310 | | -200+200 | -10+310 | 310 | 310 | 385 | 385 | 50+550 |
| | Vertical travel (Z-Axis) | mm | 460 | | 550 | 550 | 460 | 460 | 760 | 760 | 700 |
| | Cutting feed rate | mm/rev | 0.001-500 | | | | 0.001-500 | | 0.001-500 | 0.001-500 | |
| | Feed override | % | 0-150 | | | | 0-150 | | 0-150 | 0-150 | |
| Control system | | | Fanuc 0i-T | | | | Fanuc 0i-T | | Fanuc 0i-T | Fanuc 0i-T | |
| Motors | Spindle motor (Cont./30min) | kW | ap40 (18.5/22) | | | ap40 (18.5/22) | | ap40 (18.5/22) | | ap40 (18.5/22) | |
| | Feed motor (X/Z axis) | kW | 3.0/4.0 | | 3.0/7.0 | | 3.0/4.0 | | 4.0/7.0 | 4.0/7.0 | 4.0/4.0 |
| | Live tool motor | | - | | | | 3.7/5.5 | | - | - | - |
| Power requirement | | kVA | 40 | 75 | 40 | 45 | 85 | 40 | 75 | 40 | |
| Machine size | Floor space (LxW) | mm(inch) | 1700x3100 (66.9"x112") | 3400x3100 (133.9"x112") | 1700x3100 (66.9"x112") | 1700x3100 (66.9"x112") | 3400x3100 (133.9"x112") | 1950x3410 (76.8"x134.3") | 3900x3410 (153.5"x134.3") | 1950x3410 (76.8"x134.3") | |
| | Max. height | mm(inch) | 2855 (112.4") | | 2855 (112.4") | | 2855 (112.4") | | 3450 (135.8") | | |
| | Net. Weight | kg(lb) | 6500 (14330 lb) | 13000 (28660 lb) | 6500 (14330 lb) | 6600 (14550 lb) | 13200 (29101 lb) | 11500 (25353 lb) | 23000 (50706 lb) | 11500 (25353 lb) | |

* The specifications are subject to change without notice

Standard accessories

- Complete splash guard.
- Hydraulic 3-jaw chuck and rotary cylinder.(VL-46/66/86)
- Manual 4-jaw chuck.(VL-100)
- Hydraulic power unit.
- Soft jaws for hydraulic chuck.(VL-46/66/86)
- Automatic lubrication system.
- Heat exchanger for electrical cabinet.
- Safety glass for front door.
- Foot switch for hydraulic chuck.
- Working light.
- Warning light.(R/Y/G)
- Coolant through turret.
- Coolant system with coolant tank and bed wash down system.
- Hand tool sets with tool box.
- Leveling bolts & seat pads.
- Chip conveyor.(Hinge type)
- Chip trolley.
- Spindle orientation.
- Manual of operation & maintenance.
- Manual of electrical & hydraulic circuit diagram.
- Workpiece counter.(CNC controller)

Optional accessories

- Hydraulic chuck and rotary cylinder.(VL-100)
- Manual chuck.(VL-86 series)
- Spindle motor upgrade.
- Air conditioner for electrical cabinet.
- Auto door.(Automatic opening & closing of main door)
- Power transformer.
- Oli skimmer.(Disc type)
- Oil mist collector.
- Counter display for each inserts.
- Double cutting tools.
- Tool presetter.
- Dual speed gear box for spindle motor.
- High & low pressure chucking.
- Chuck position sensor.
- Tool holder.
- Hard jaw of chuck.
- High pressure collant through turret.
- Chip conveyor.(scraper type)
- CNC controller 31i series.
- Manual guide i.
- CE certificate.
- Tooling.
- Jig & fixture.
- Turnkey project.

Machine Specifications

| Model / Descriptions | Unit | VL-66M | VL-66MT | VL-86A/AR | VL-86AT | VL-86H | VL-86M | VL-86MT | VL-100A | VL-100M |
|--------------------------|------------------------------|------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-------------------------------|------------------------------|
| Capacity | Max. swing diameter | mm(inch) | 800 (31.4") | 800 (31.4") | 1000 (39.4") | | 1000 (39.4") | | 1320 (52.0) | |
| | Max. turning diameter | mm(inch) | 700 (27.5") | 700 (27.5") | 860 (33.9") | | 860 (33.9") | | 1100 (43.3) | |
| | Standard turning diameter | mm(inch) | 700 (27.5") | 700 (27.5") | 690 (27") | | 860 (33.9") | | 990 (38") | |
| | Max. turning height | mm(inch) | 650 (25.5") | 650 (25.5") | 810 (31.9") | | 800 (31.5") | | 920 (36.2") | 900 (35.4") |
| Spindle | Hydraulic chuck | mm(inch) | 457 (18") | | 533 (21") | | 533 (21") | | 1000 (40")/Manual 4-jaw chuck | |
| | Range of table speed | rpm | 25-2000 | | 25-1500 | | 25-1500 | | 5-850 | |
| | Front bearing diameter | mm | 160 | | 200 | | 200 | | 200 | |
| | Nose of spindle | | A2-11 | | A2-11 (Option A2-15) | | A2-11 (Option A2-15) | | ISO 702-4 No.15 (Ø380) | |
| Tool turret | Type of turret | - | H12 (BMT75) | H12+H12 (BMT65) | H12 | H12+H12 | V4/V6/V8 | H12 | H12+H12 | H12 (BMT85) |
| | Number of tool position | ea | 12 | 12+12 | 12 | 12+12 | 4/6/8 | 12 | 12+12 | 12 |
| | Tool size | mm | □25, Ø40, Ø50 | | □25, □32, Ø40, Ø50 | | □25, Ø40, Ø50 | | □32, Ø50 | |
| | Tool live spindle speed | | 3000 | 3000 | - | | 3000 | | 3000 | - |
| Feed | Rapid rate (X-Axis) | m/mim | 20 | | 20 | | 20 | | 20 | |
| | Rapid rate (Z-Axis) | m/mim | 20 | | 20 | | 20 | | 20 | |
| | Horizontal travel (X-Axis) | mm | 385 | | 470 | | 50+500 | | 470 | |
| | Vertical travel (Z-Axis) | mm | 760 | | 860 | | 850 | | 860 | |
| | Cutting feed rate | mm/rev | 0.001-500 | | | | 0.001-500 | | | |
| | Feed override | % | 0-150 | | | | 0-150 | | | |
| Control system | | Fanuc 0i-T | | | | | | | | |
| Motors | Spindle motor (Cont. /30min) | kW | αp40(18.5/22) | | | | | | | |
| | Feed motor (X/Z axis) | kW | 4.0/7.0 | | 4.0/7.0 | | 4.0/7.0 | | 4.0/7.0 | |
| | Live tool motor | | 7.5/11 | | - | | 7.5/11 | | - | 7.5/11 |
| Power requirement | | kVA | 45 | 85 | 40 | 75 | 40 | 45 | 85 | 80 |
| Machine size | Floor space (LxW) | mm(inch) | 1950x3410 (76.8"x134.3") | 3900x3410 (153.5"x134.3") | 2100x3500 (82.7"x137.8") | 4200x3500 (165.4"x137.8") | 1950x3500 (76.8"x137.8") | 2100x3500 (82.7"x137.8") | 4200x3500 (165.4"x137.8") | 2700x4000 (106.2"x157.4") |
| | Max. height | mm(inch) | 3450 (135.8") | | 3900 (153.5") | | 3900 (153.5") | | 4050 (159.4") | |
| | Net. Weight | kg(lb) | 11600 (25574 lb) | 23200 (51147 lb) | 14500 (31967 lb) | 29000 (63934 lb) | 14600 (32188 lb) | | 29200 (64375 lb) | 21000 (46297 lb) |

Standard accessories

- Complete splash guard.
- Hydraulic 3-jaw chuck and rotary cylinder.(VL-46/66/86)
- Manual 4-jaw chuck.(VL-100)
- Hydraulic power unit.
- Soft jaws for hydraulic chuck.(VL-46/66/86)
- Automatic lubrication system.
- Heat exchanger for electrical cabinet.
- Safety glass for front door.
- Foot switch for hydraulic chuck.
- Working light.
- Warning light.(R/Y/G)
- Coolant through turret.
- Coolant system with coolant tank and bed wash down system.
- Hand tool sets with tool box.
- Leveling bolts & seat pads.
- Chip conveyor.(Hinge type)
- Chip trolley.
- Spindle orientation.
- Manual of operation & maintenance.
- Manual of electrical & hydraulic circuit diagram.
- Workpiece counter.(CNC controller)

Optional accessories

- Hydraulic chuck and rotary cylinder.(VL-100)
- Manual chuck.(VL-86 series)
- Spindle motor upgrade.
- Air conditioner for electrical cabinet.
- Auto door.(Automatic opening & closing of main door)
- Power transformer.
- Oli skimmer.(Disc type)
- Oil mist collector.
- Counter display for each inserts.
- Double cutting tools.
- Tool presetter.
- Dual speed gear box for spindle motor.
- High & low pressure chucking.
- Chuck position sensor.
- Tool holder.
- Hard jaw of chuck.
- High pressure collant through turret.
- Chip conveyor.(scraper type)
- CNC controller 31i series.
- Manual guide i .
- CE certificate.
- Tooling.
- Jig & fixture.
- Turnkey project.
- Linear encoder of X/Z axis.