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VERTICAL TURNING CENTERS

8"~12" Chuck | 24" Chuck | 12"~21" Chuck | 21" ~ 63" Chuck | 24"~63"Chuck | Honor Special Purpose Machines

8"~12" Chuck (Topper)

- Box type column for high rigidity and vibration free cutting
- X/Z box ways with precision grinding and scraping fit for high feed response
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- High torque main spindle with dual speed gearbox, made by ZF of Germany
- Various turret configurations to meet individual needs

TVL-30S2

	TVL-25S2	TVL-30S2
Max. Swing Diameter (in)	19.7	27.5
Chuck Diameter (in)	8	12
Max. Turning Diameter (in)	15.7	20.5
Max. Turning Length (in)	11.8	13.8
Spindle Speed (rpm)	30~3000	25~2250
Sp. Bearing ID (in)	3.9	4.7
Style of Turret	8 st. BH	8 st. BH

24" Chuck 4 axis (Topper Wheel Turning)

- X/Z box ways with precision grinding and scraping fit for high feed response
- Symmetrical design with two independent ram and saddle for the two turrets
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- Large Timken crossed roller bearing for accuracy in heavy duty cutting
- Rear outlet for coolant tank and conveyor

TVL-40-S4W

	TVL-40-S4W
Wheel size (in)	Diameter: 14 ~ 26 Height: 6 ~ 12
Chuck	Finger chuck (OPT)
Spindle Nose	A2-11
Spindle Motor (hp)	75
Spindle bearing dia. (in)	6.3
Spindle Speed (rpm)	2000
Turret stations	6 + 6

12" Chuck (Honor High Speed Series)

- X/Z box ways with precision grinding and scraping fit for high feed response
- One piece column with wide span of Z axis
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- High torque main spindle with built-in dual speed gearbox (ZF brand)
- Turret with face coupling and many variations to accommodate different applications

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	VL-3DA	VL-3DH	VL-3DE	VL-3DF
Max. Swing dia. (in)	25.6	25.6	25.6	25.6
Max. Turn dia. (in)	20.5	17.7	17.7	17.7
Max. Turn height (in)	13.8	13.8	13.8	13.8
Chuck dia. (in)	12	12	12	12
Spindle bearing dia. (in)	4.7	4.7	4.7	4.7

Spindle Speed (rpm)	2250	2250	2250	2250
Turret stations	8	4	6	Power - 6 or 8

18" Chuck (Honor High Speed Series)

- X/Z box ways with precision grinding and scraping fit for high feed response
- One piece column with wide span of Z axis
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- High torque main spindle with built-in dual speed gearbox (ZF brand)
- Turret with face coupling and many variations to accommodate different applications

VL-6DA, VL-6DB

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	VL-6DA	VL-6DH	VL-6DE	VL-6DF
Max. Swing dia. (in)	33.4	33.4	33.4	33.4
Max. Turn dia. (in)	25.5	25.5	25.5	25.5
Max. Turn height (in)	25.5	25.5	25.5	25.5
Chuck dia. (in)	18	18	18	18
Spindle bearing dia. (in)	6.3	6.3	6.3	6.3
Spindle Speed (rpm)	1500	1500	1500	1500
Turret stations	12	4	6	Power - 6 or 8

21" Chuck (Honor High Speed Series)

- X/Z box ways with precision grinding and scraping fit for high feed response
- One piece column with wide span of Z axis
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- High torque main spindle with built-in dual speed gearbox (ZF brand)
- Turret with face coupling and many variations to accommodate different applications

VL-8DA, VL-8DB

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	VL-8DA	VL-8DH	VL-8DE	VL-8DF
Max. Swing dia. (in)	39.3	39.3	39.3	39.3
Max. Turn dia. (in)	31.5	31.5	31.5	31.5
Max. Turn height (in)	31.5	31.5	31.5	31.5
Chuck dia. (in)	21	21	21	21

Spindle bearing dia. (in)	7.9	7.9	7.9	7.9
Spindle Speed (rpm)	1250	1250	1250	1250
Turret stations	12	4	6	Power - 6 or 8

21" ~ 63" Chuck (Honor Heavy Duty Series)

- X/Z box ways with precision grinding and scraping fit for high feed response
- Cross rail design to give excellent accuracy
- Large RAM structure on Z ensures heavy duty cutting at max. stroke
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- Large Timken crossed roller bearing for accuracy in heavy duty cutting
- ATC tooling connected by curve gear coupling ensures positioning accuracy and repeatability

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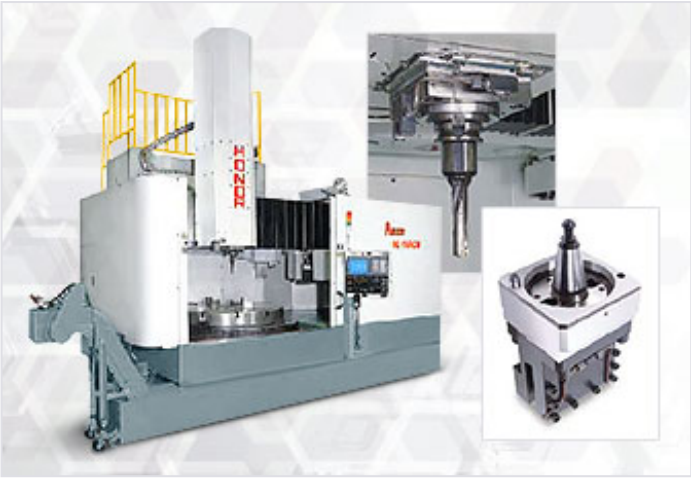
	VL-6DC	VL-6DT	VL-8DC	VL-8DT
Max. Swing dia. (in)	33.4	33.4	41.3	41.3
Max. Turn dia. (in)	25.5	25.5	35.4	35.4
Max. Turn height (in)	25.5	25.5	25.5	25.5
Chuck dia. (in)	21	21	24	24
Spindle bearing dia. (in)	13	13	13	13
Spindle Speed (rpm)	600	600	500	500
Turret stations	ATC-12	4	ATC-12	4
	VL-10DC	**VL-10DT**	**VL-12DCR**	**VL-16DCR**
Max. Swing dia. (in)	47.3	47.3	63	78.7
Max. Turn dia. (in)	41.3	41.3	63	78.7
Max. Turn height (in)	29.5	29.5	49.2	49.2
Table dia. (in)	39.4	39.4	49.2	63
Spindle bearing dia. (in)	18	18	18	27
Spindle Speed (rpm)	350	350	300	250
Turret stations	ATC-12	4	ATC-12	ATC-12

24"~63" Chuck (Honor ATC Series with Rotating Tool)

- X/Z box ways with precision grinding and scraping fit for high feed response
- Cross rail design to give excellent accuracy
- Large RAM structure on Z ensures heavy duty cutting at max. stroke
- Precision bearing structure with 3 layer labyrinth and air design to prevent coolant contamination
- Auto lube for ball screw, bearings and box ways
- Auto lube sensor for auto shut off when no lube is sensed
- Large Timken crossed roller bearing for accuracy in heavy duty cutting
- BT50 type ATC tooling for static tools and rotating tools



VL-16RGM

	8DCM	10DCM	12M	16DCM
Max. Swing dia. (in)	41.3	47.3	63	78.7
Max. Turn dia. (in)	35.4	41.3	63	78.7
Max. Turn height (in)	25.5	29.5	49.2	49.2
Chuck dia. (in)	24	39.4	49.2	63
Spindle bearing dia. (in)	13	18	27	31.5
Spindle Speed (rpm)	500	350	300	250
Turret stations	ATC-6T+10R	ATC-6T+10R	ATC-6T+10R	ATC-6T+10R

Honor Special Purpose Machines

CNC High Speed Drilling Master DC-5070

CNC High Speed Drilling Master DC-3024

Twin Spindle Boring Machine VBC-150

Twin Spindle Slot-Milling Machine

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