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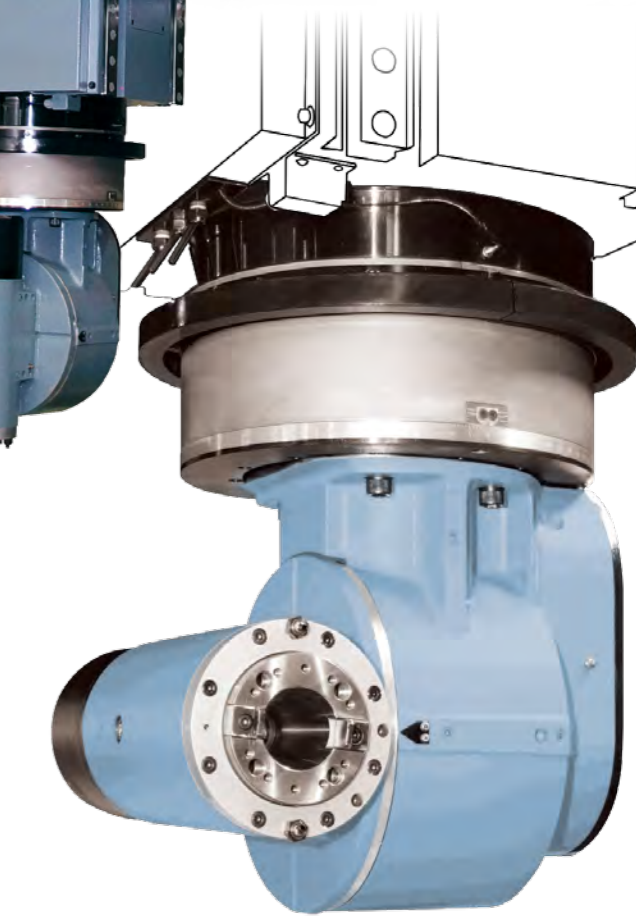
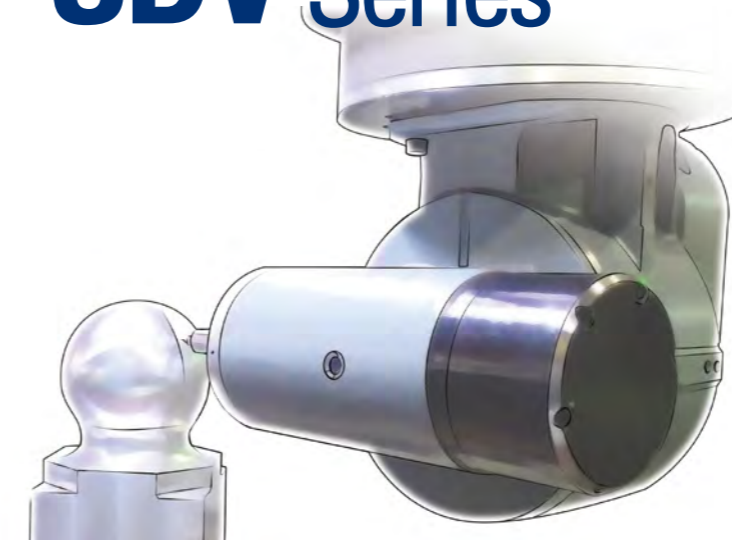
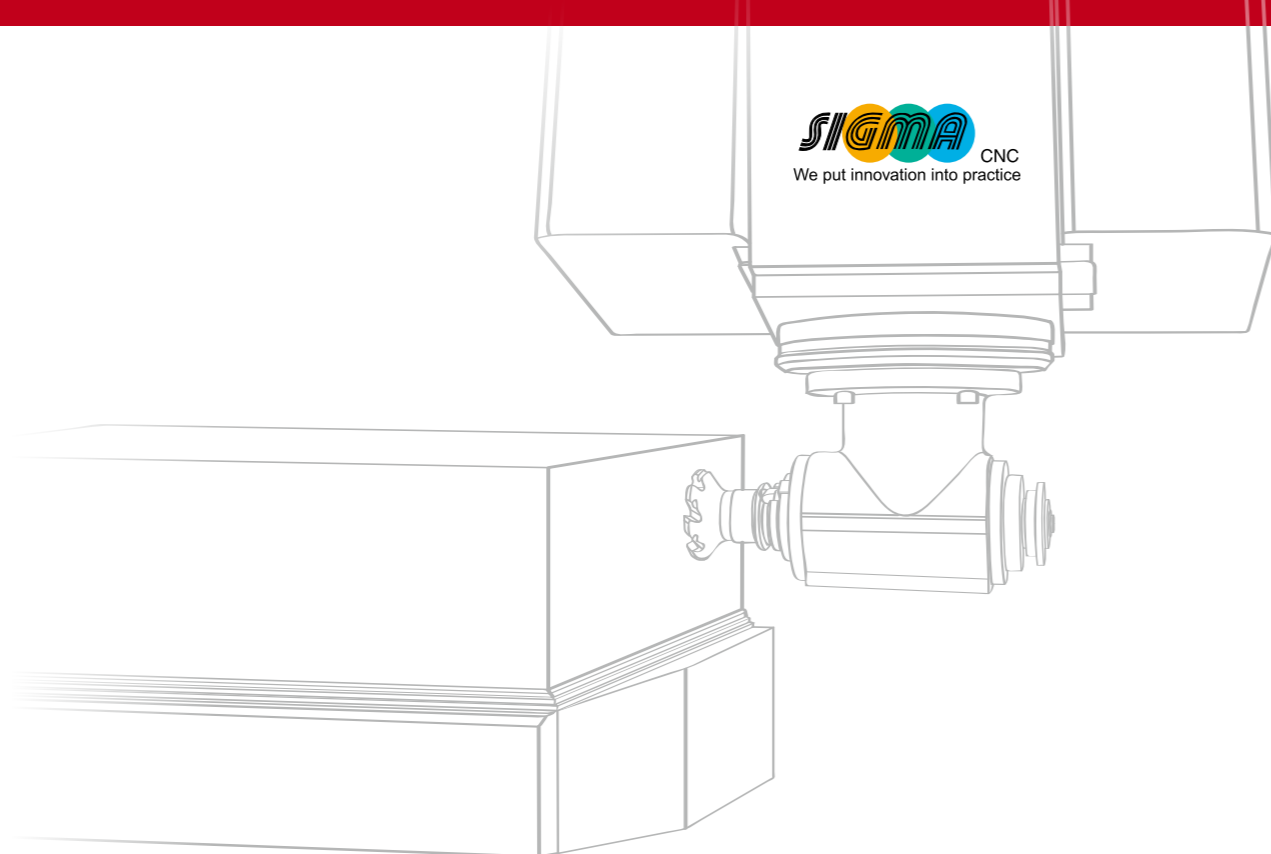
Products

- CNC Double Column Machining Center
- CNC Double Column High Speed Machining Center
- CNC Double Column 5-Face Machining Center
- CNC Double Column 5-Axis Machining Center
- CNC Double Column Crossrail Machining Center
- CNC High Speed Horizontal Machining Center with APC
- CNC Moving Column Horizontal Machining Center
- CNC High Precision Grinding Machine



**CNC Double Column
Machining Center**

**SDV-H Series
SDV Series**

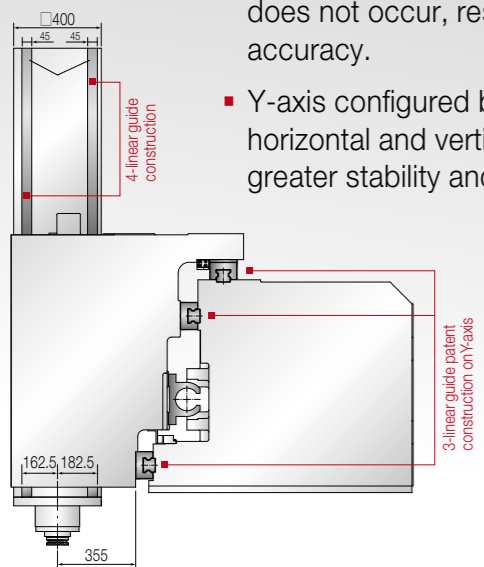


SDV-H Series

The Motion of Z-axis is Supported by 4 Linear Guideways

SIGMA Patent

- The spindle head and Z-axis are designed with 4-linear guideways and a box-way construction. During heavy cutting vibrations are eliminated, and during fine cutting inert does not occur, resulting in higher surface accuracy.
- Y-axis configured by 3-linear guideways for horizontal and vertical directions that offer greater stability and rigidity for the machine.



Patents

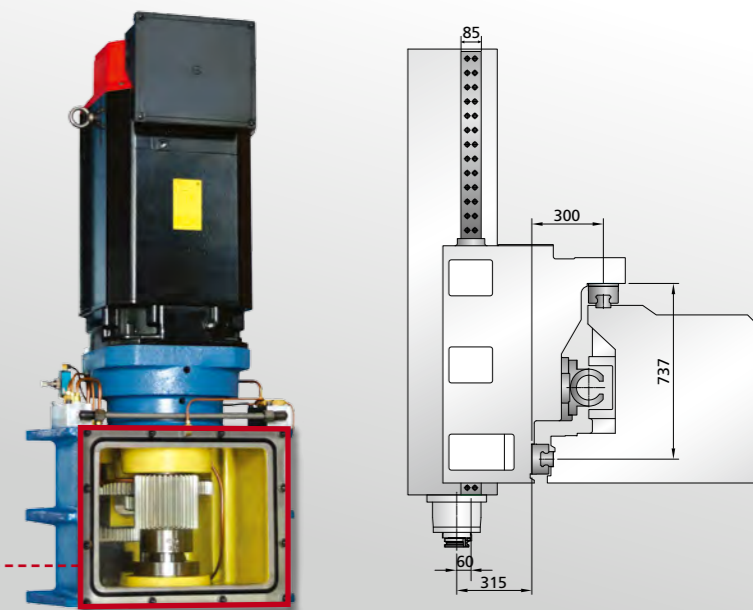
- No. 282769
- No. 286082
- No. 459057



- Z-axis linear guideways are roller type. Guideways width 45 mm.
- Y-axis linear guideways are roller type. Guideways width 65 mm.
- Spindle center to Y-axis block distance just 355 mm.



- Z-axis linear guideways are roller type, guideway width 85 mm. THK-SRW series.
- Spindle center to Z-axis linear guideways distance just 60 mm.
- Y-axis linear guideways are roller type and configured for horizontal and vertical directions.
- Spindle center to Y-axis block distance just 315 mm.



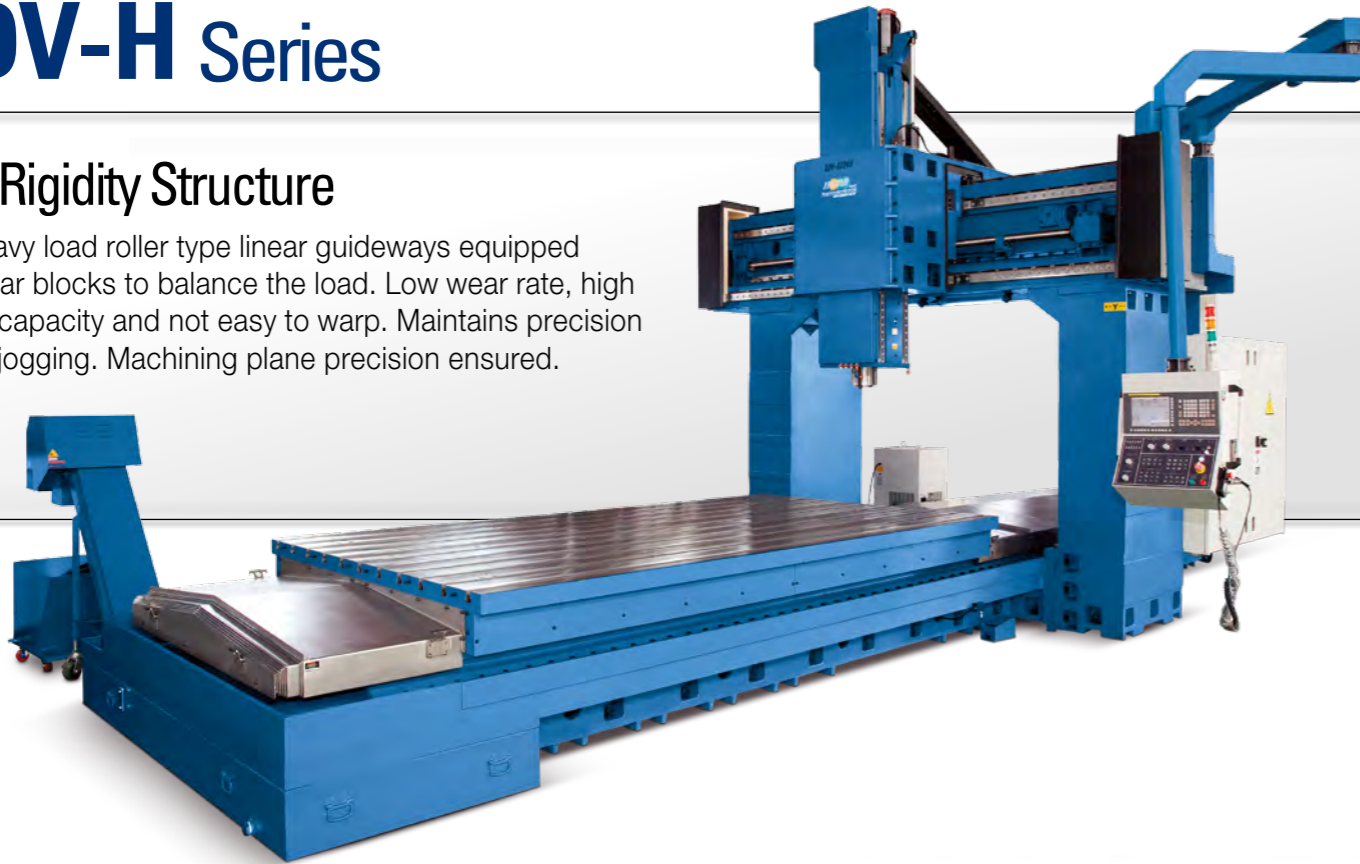
Contents	Features	Structures	Spindle	Optional Accessories	Human Interface & Splash Guarding	Table Dimensions & Accessories	Specifications
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1-2	3-4	5-6	7-8	9-10	11-12	13-14
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SDV-H Series

High Rigidity Structure

With heavy load roller type linear guideways equipped with linear blocks to balance the load. Low wear rate, high loading capacity and not easy to warp. Maintains precision against jogging. Machining plane precision ensured.



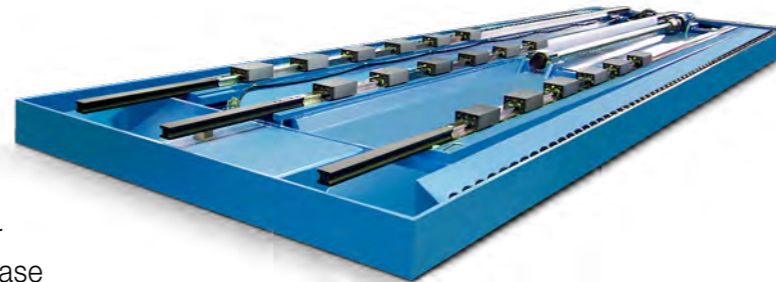
SDV Series

- Transmission on all 3 axes equipped with dust and water proofing to increase service life and maintain precision.



Machine Base

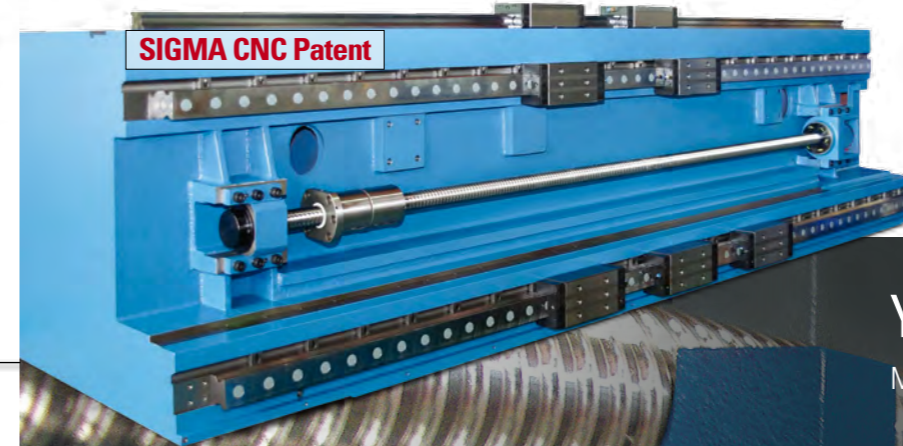
- Any table width over 2,200 mm is equally supported with 3 linear guideways. Special design for positioning accuracy, loading balance and heat deformation prevention.
- Welding or casting is custom made to order. For machine models for casting machine bases, please reference machine specifications.



Beam Structure

SDV-H Series

SDV Series



Y-axis Ballscrew Support

Machine model column distance over 2.5 m.



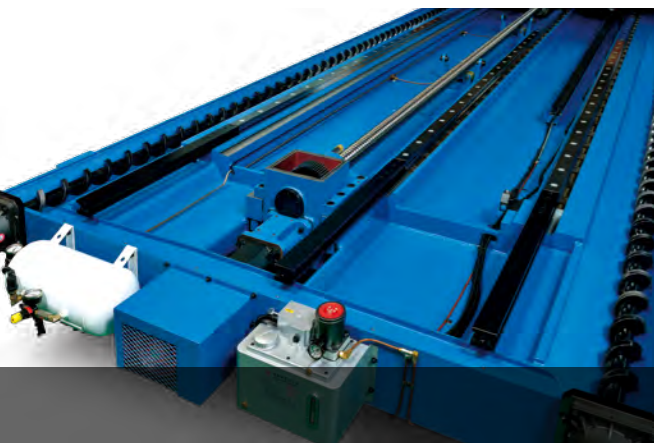
Machine Base Special Design

X-axis Ball-Screw Supporter

For column distance 2.5 m and higher models or limited to 3 guideways X-axis models.

X-axis Gear Transmission

Column Distance 2.5 m and higher models
Additional X-axis free backlash gear transmission.



Spindle

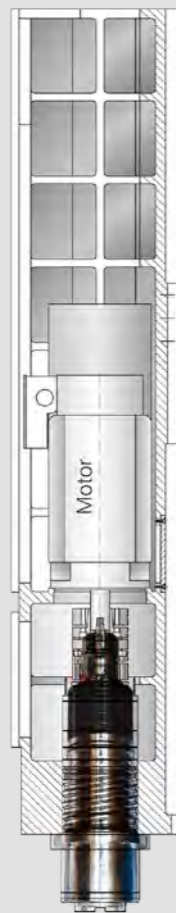
Spindle & Transmission Ways

SDV-H Series



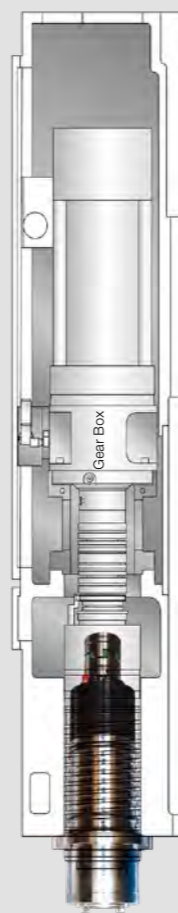
Built-in Motor Spindle

(BT-50/ HSK-A100, 10,000 rpm)
(BT-40/ HSK-A63, 18,000 rpm)
(HSK-A63, 12,000~28,000 rpm
Inverter Spindle)



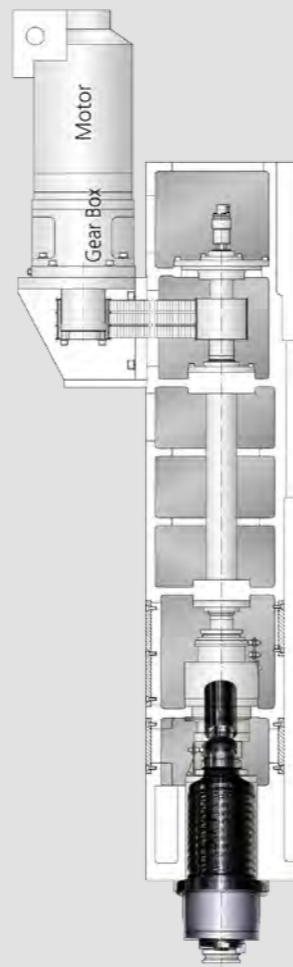
Direct-drive Spindle

(BT-50, 8,000/ 10,000 rpm)



Direct-drive Spindle with 2-steps Planetary Gearbox

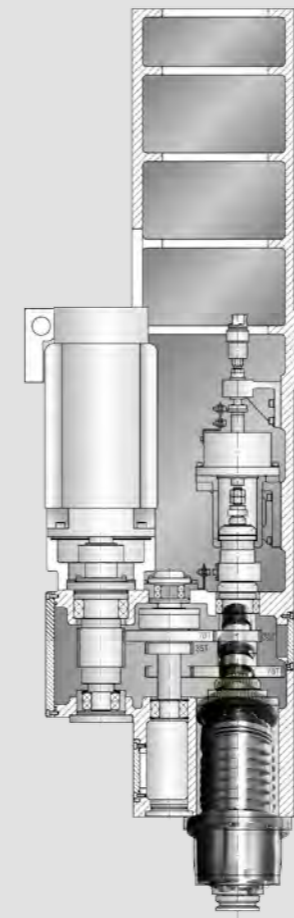
(BT-50, 6,000/ 8,000/ 10,000 rpm)



Belt Drive Spindle with 2-steps Planetary Gearbox

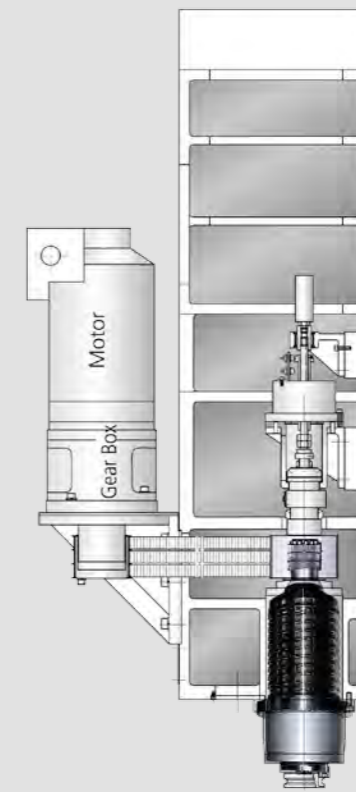
(BT-50, 4,000/ 6,000/ 8,000 rpm)

SDV Series



Gears Direct-drive Spindle

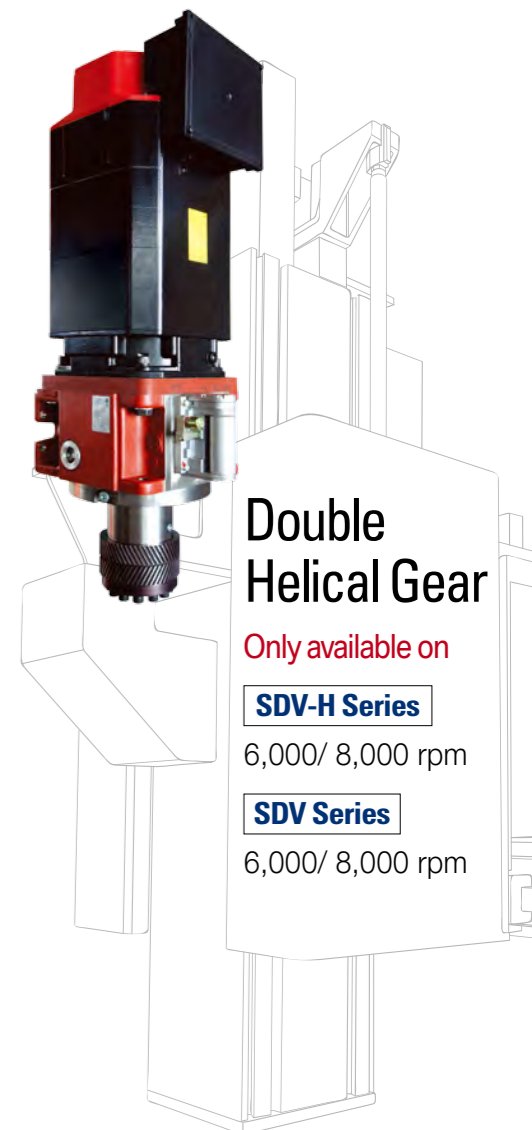
Self-made Gearbox (6,000 rpm)



Belt Drive Spindle with 2-steps Planetary Gearbox

(4,000/ 6,000/ 8,000 rpm)

Belt Drive Type
Spindle Motor with
Planetary Gearbox
(2 Steps)



Double Helical Gear

Only available on

SDV-H Series

6,000/ 8,000 rpm

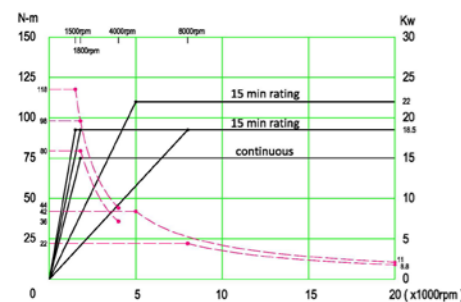
SDV Series

6,000/ 8,000 rpm

Spindle Torque

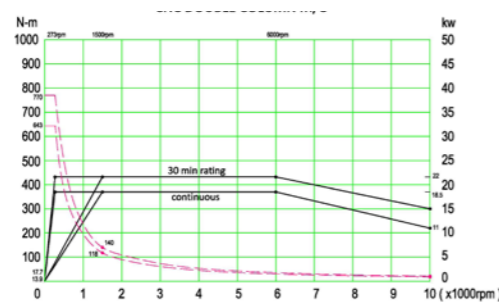
SDV-H Series

Built-in Motor Spindle



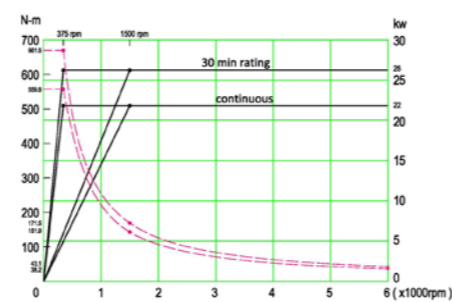
FANUC Built-in Motor 18.5/ 22 kW Spindle B112L/ 20000i Output Power & Torque Characteristic (Fanuc series motor)

Direct-drive Spindle with Gearbox



22 Motor 26/ 22 kW BT-50 Spindle 10,000rpm Output Power & Torque Characteristic RATE: (1:5.5, 1:1) with 2-steps Planetary Gearbox Direct Drive (Fanuc series motor)

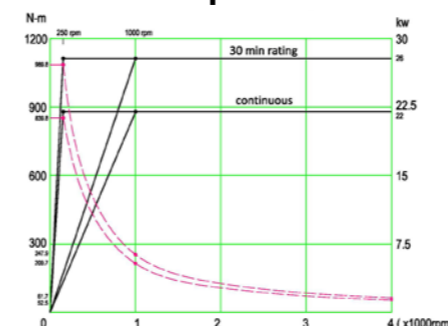
Belt Drive Spindle



22 Motor 26/ 22 kW BT-50 Spindle 4,000rpm Output Power & Torque Characteristic RATE: (1:6, 1:1.5) with 2-steps Planetary Gearbox (Fanuc series motor)

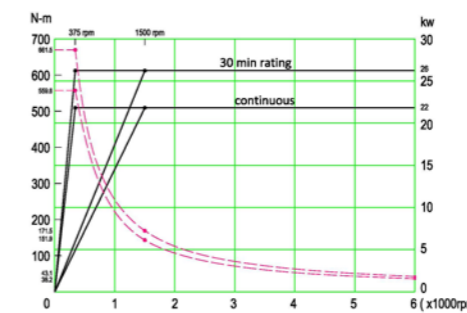
SDV Series

Belt Drive Spindle



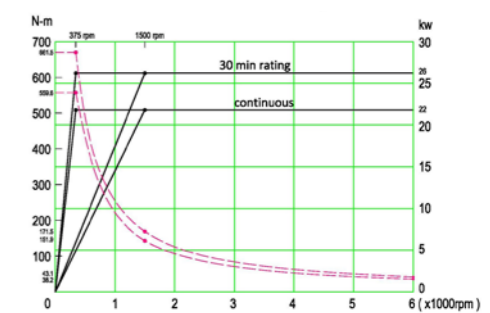
18 Motor 22/ 18.5 kW BT-50 Spindle 4,000rpm Output Power & Torque Characteristic RATE: (1:6, 1:1.5) with 2-steps Planetary Gearbox (Fanuc series motor)

Belt Drive Spindle



22 Motor 26/ 22 kW BT-50 Spindle 4,000rpm Output Power & Torque Characteristic RATE: (1:6, 1:1.5) with 2-steps Planetary Gearbox (Fanuc series motor)

Gear Direct Drive Spindle



22 Motor 26/ 22 kW BT-50 Spindle 6,000rpm Output Power & Torque Characteristic RATE: (1:4, 1:1) (Fanuc series motor)

Optional Accessories

Manual Heads SIGMA CNC Made

35°, 45° Head
Max. 3,000 rpm

Extension Head
Max. 4,500 rpm
(360/ 560 mm)

90° Angular Head
Max. 3,000 rpm

Swing Divided Angle Head
Max. 3,000 rpm

Manual Head Supporter

Auto Attachment Head Change System SIGMA CNC Made

Extension Head
Max. 4,500 rpm
(360/ 560 mm)

90° Angular Head
Max. 3,000 rpm
(Available Auto Tool Changing)

35°, 45° Head
Max. 3,000 rpm

Swing Divided Angle Head
Max. 3,000 rpm
(Available Auto Tool Changing)

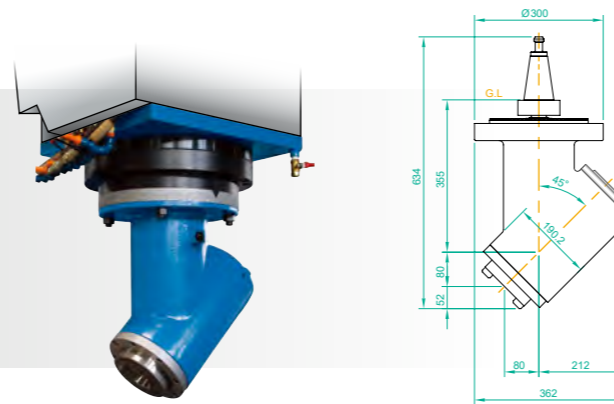
Compartment Types for Heads

- Column-type head compartment contains 1 head only.
- Multiple heads compartment contains more than 3 heads.
- Table-type head compartment contains 1-3 heads only.

Optional Milling Heads For SDV & SDV-H type (Manual)

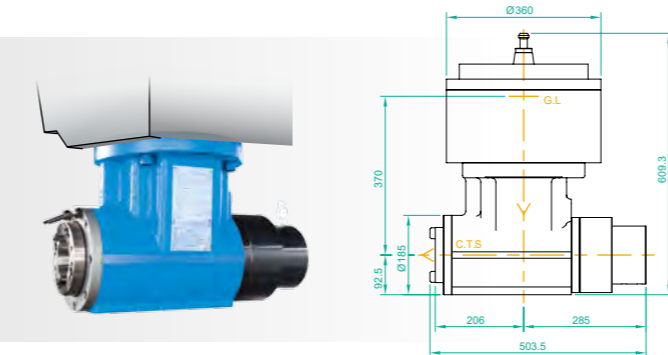
Manual 45° Angular Head

C-axis 5 manual indexing / manual tool locking
Max. spindle speed: 3000 rpm
Max. output power: 26Kw 35HP
Reduction ratio: 1:1
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: Unavailable
A.T.C.: Unavailable



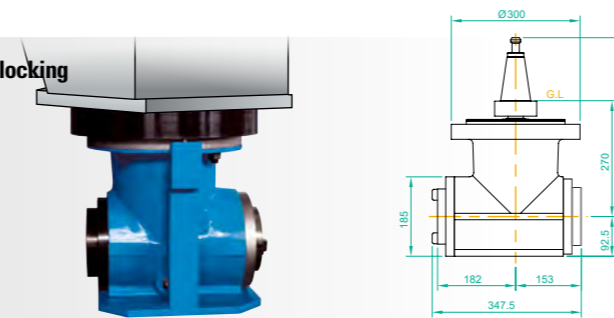
Manual / Semi-auto 90° Angular Head

C-axis auto indexing / hydraulic auto tool clamping
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1200 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: Available (by manual attached)
A.T.C.: Unavailable



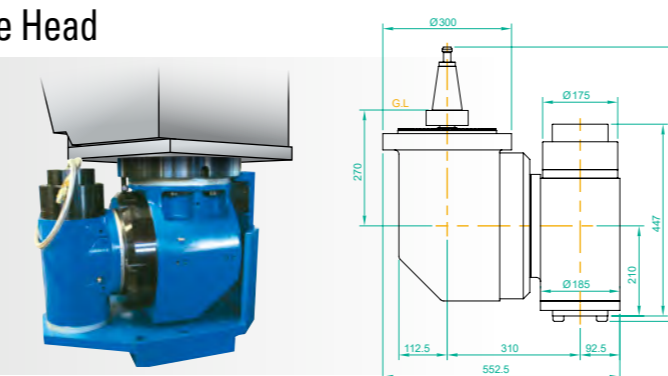
Manual 90° Angular Head

C-axis 90 manual orientation or 5 manual indexing / manual tool locking
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: Unavailable
A.T.C.: Unavailable



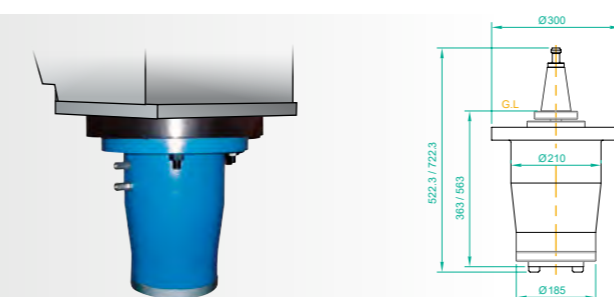
Manual / Semi-auto Swing Divided Angle Head

C-axis 5 manual indexing , A-axis manual 1 rotation / hydraulic manual tool clamping
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1200 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: Unavailable
A.T.C.: Unavailable



Manual Extension Head 360/560mm

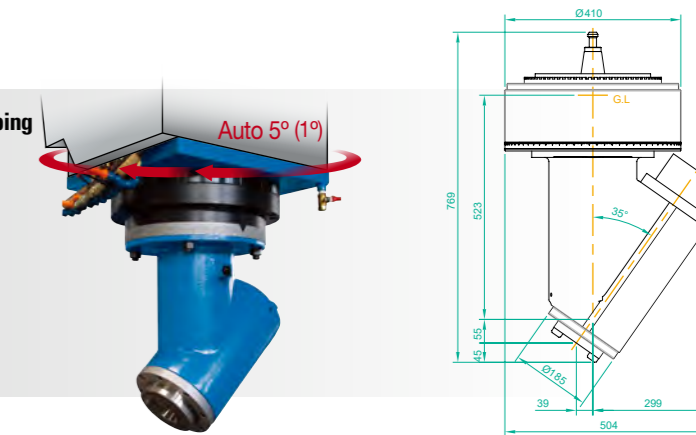
Hydraulic manual tool clamping
Max. spindle speed: 5000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1300 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: optional
A.T.C.: Unavailable



Optional Milling Heads For SDV-HLA type (Auto Attachment Change)

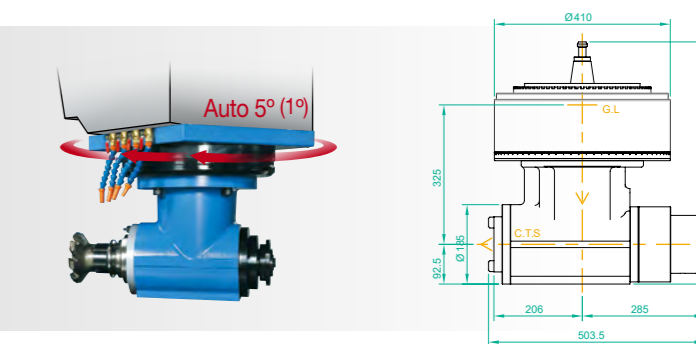
35° Angular Head

C-axis 1° or 5° auto indexing / hydraulic auto tool clamping
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1100 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: Unavailable
A.T.C.: Unavailable



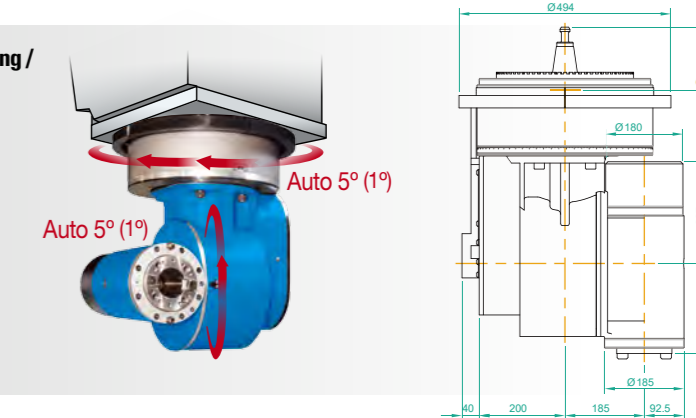
90° Angular Head

C-axis auto indexing / hydraulic auto tool clamping
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1200 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: optional
A.T.C.: optional



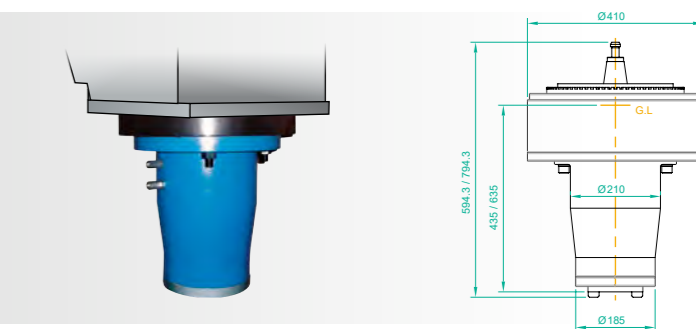
Swing Divided Angle Head

C-axis 1° or 5° auto indexing , A-axis 1° or 5° auto indexing / hydraulic auto tool clamping
Max. spindle speed: 3000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1200 kgs
Spindle taper: ISO#50
Max. tool weight: 12kg
C.T.S.: optional
A.T.C.: optional



Extension Head 360/560mm

Hydraulic auto tool clamping
Max. spindle speed: 5000 rpm
Max. output power: 26Kw (35HP)
Reduction ratio: 1:1
Tool clamping force: 1300 kgs
Spindle taper: ISO#50
Max. tool diameter: 215
C.T.S.: optional
A.T.C.: optional



ATC Various Options

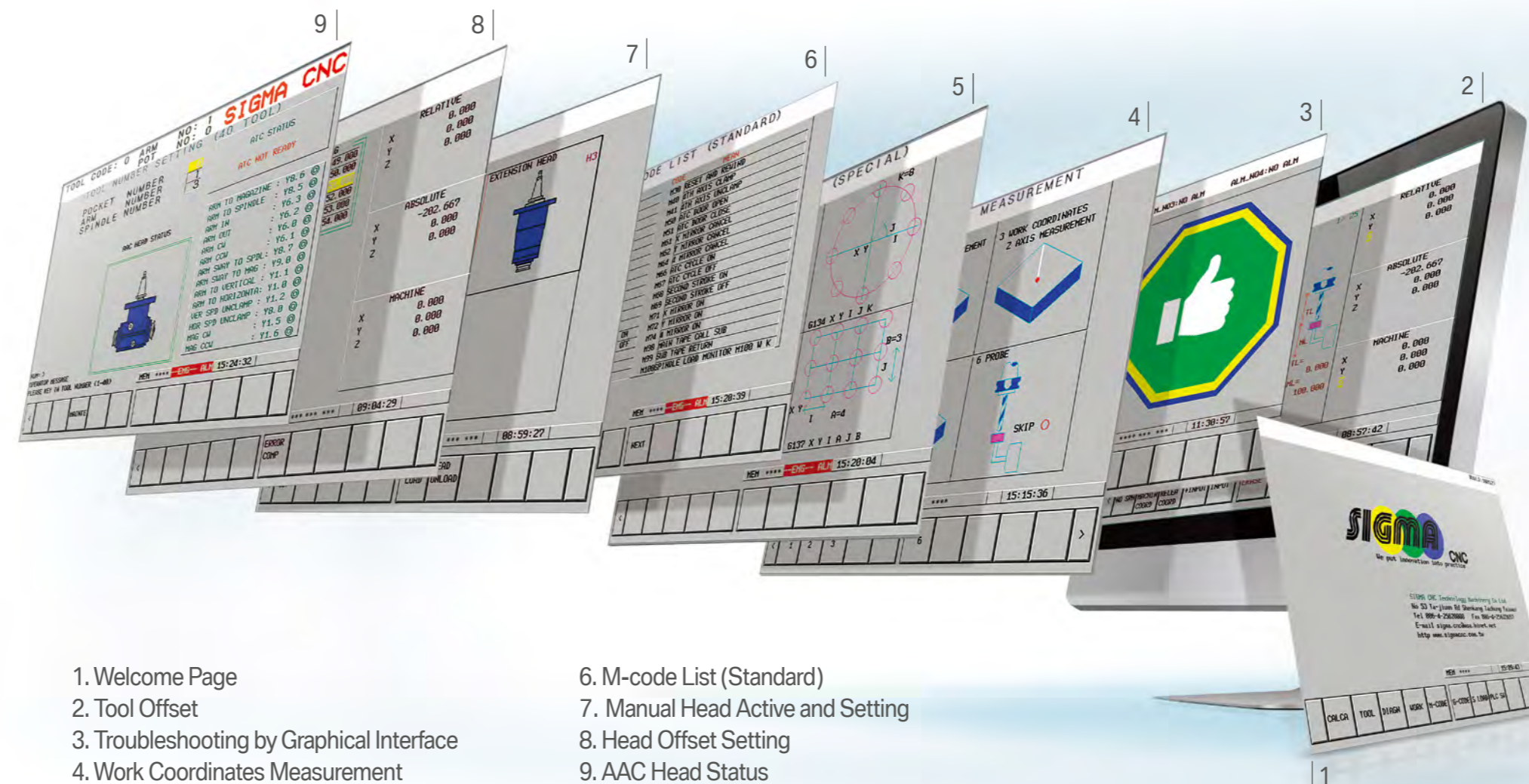
Available for different tool magazine capacities and tool change requirements.



Human Interface

Easy to Operate Graphical Interface

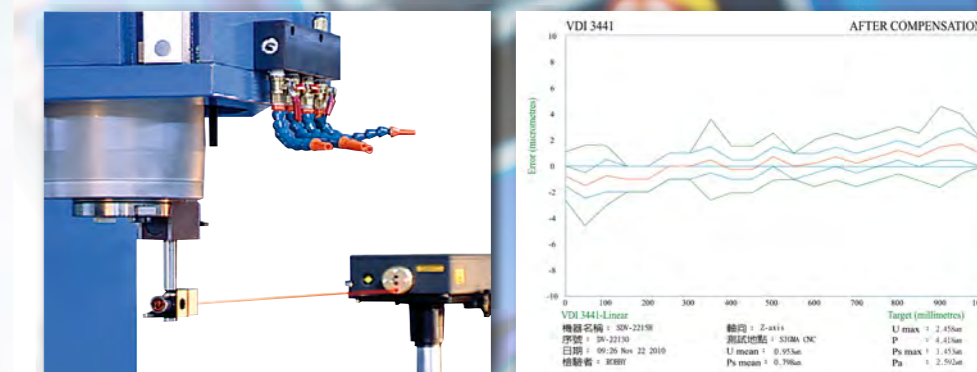
SIMAGE Made by SIGMA CNC



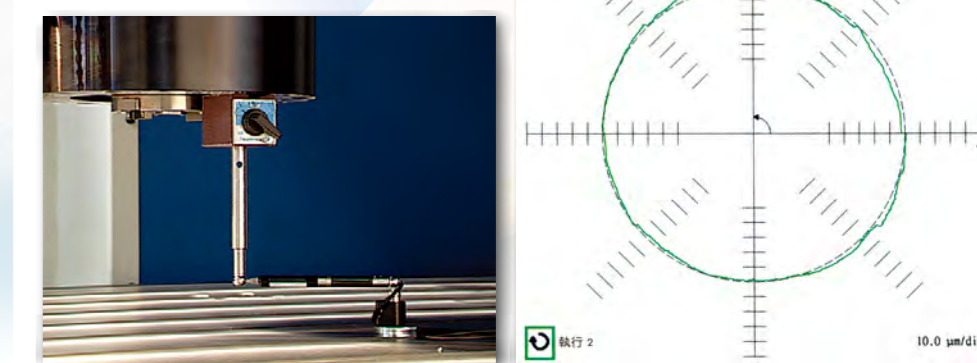
1. Welcome Page
2. Tool Offset
3. Troubleshooting by Graphical Interface
4. Work Coordinates Measurement
5. G Code List (Special)
6. M-code List (Standard)
7. Manual Head Active and Setting
8. Head Offset Setting
9. AAC Head Status

Our Quality Promise Made by SIGMA CNC

Laser Inspection



Ball Bar Test



CTS Coolant Through Spindle System

(20/ 30/ 50 bar)



with Paper Type Filter

Spindle Thermal Compensation System

Keeps spindle displacement within 0.03 mm.



Auto Tool Length Diameter Measurement & Touch Probe System



Splash Guard

Glazed Splash Guard
| Standard |



Glazed Splash Guard with Telescope Door (3 piece)
| Optional |



Full Splash Guard
| Optional |

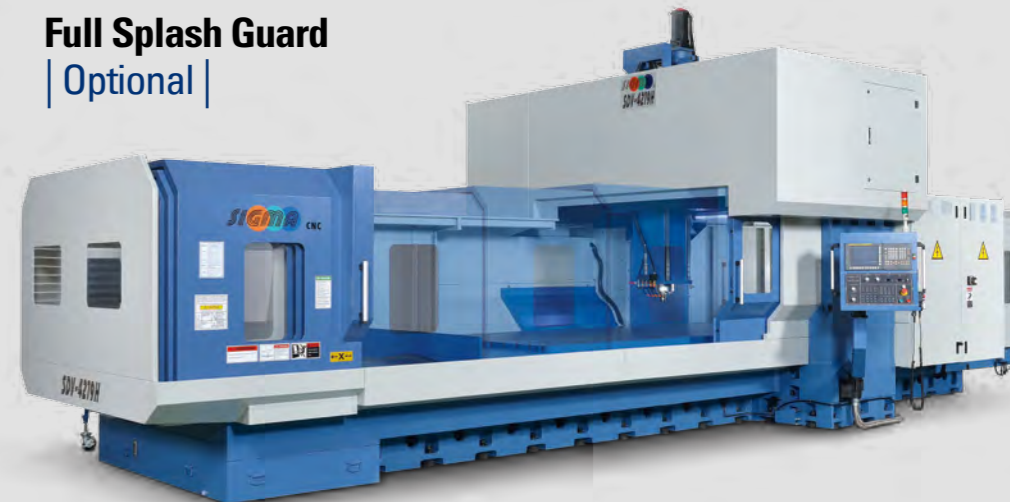
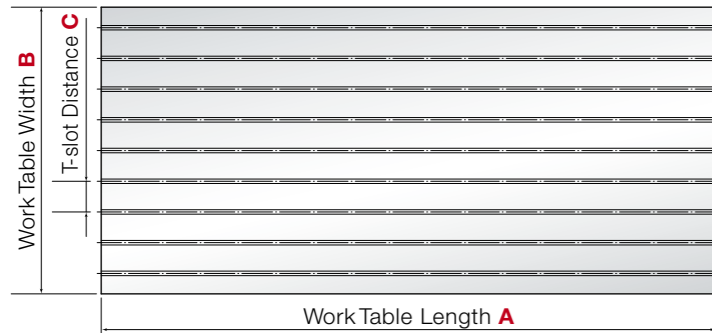


Table Dimensions & Accessories

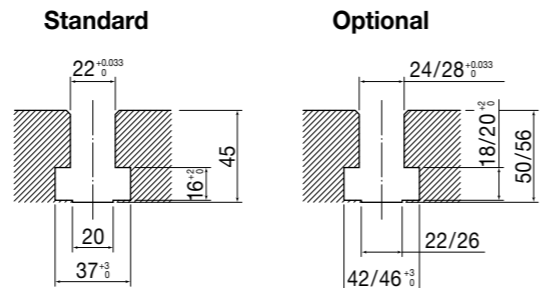
SDV-H with Auto Attachment Head Change System

SDV-HLA Series

Table Size

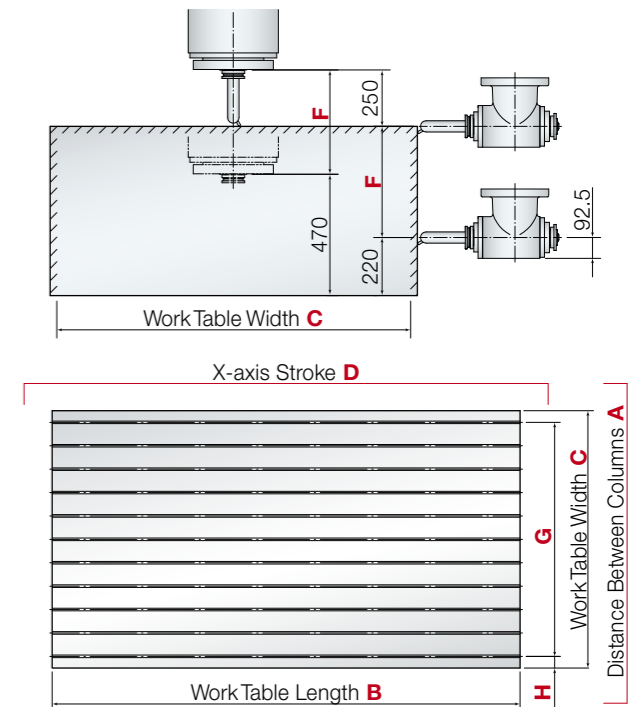
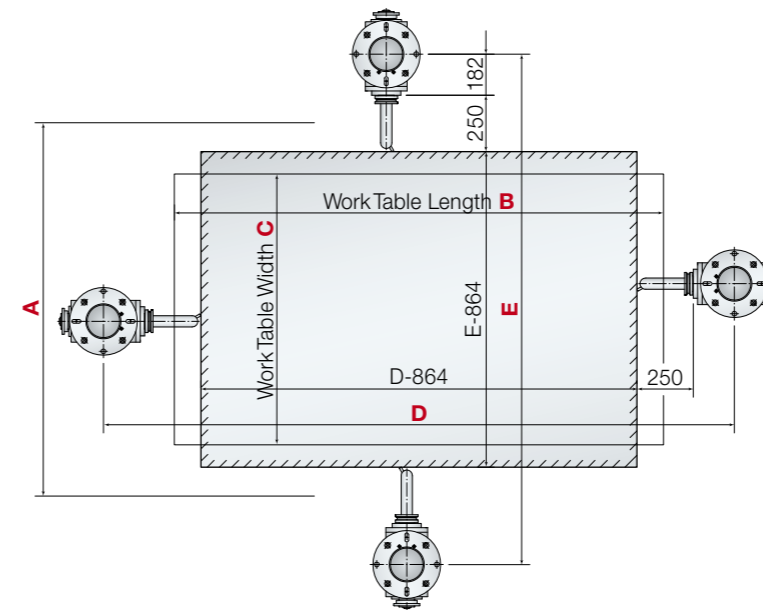


T-slot Dimensions



Unit: mm

Working Area of 90° Right Angle Head



Model No.	A	B	C	Number of T-slots
1611	1,600	1,000	150 x 6	7
2011	2,040	1,000	150 x 6	7
2215	2,000	1,400	150 x 8	9
3215	3,000	1,400	150 x 8	9
2219	2,000	1,700	160 x 10	11
3219	3,000	1,700	160 x 10	11
3224	3,000	2,200	200 x 10	11
3229	3,000	2,700	200 x 12	13
4219	4,000	1,700	160 x 10	11
4224	4,000	2,200	200 x 10	11
4229	4,000	2,700	200 x 12	13
4234	4,000	3,200	200 x 15	16
4239	4,000	3,700	200 x 18	19
5224	5,000	2,200	200 x 10	11
5229	5,000	2,700	200 x 12	13
5234	5,000	3,200	200 x 15	16
5239	5,000	3,700	200 x 18	19
6224	6,000	2,200	200 x 10	11
6229	6,000	2,700	200 x 12	13
6234	6,000	3,200	200 x 15	16
6239	6,000	3,700	200 x 18	19

Layout details for any machine model, please contact SIGMA CNC sales.

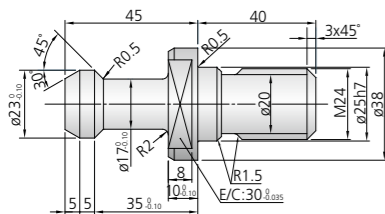
Model	A	B	C	D	E	F	G	H
SDV-1611 HLA	1,200	1,600	1,000	1,600	1,500	760/1,000	150 x 6	50
SDV-2011 HLA	1,200	2,000	1,000	2,040	1,500		150 x 6	50
SDV-2215 HLA	1,600		1,400	2,200	1,900		150 x 8	100
SDV-2219 HLA	2,000	3,000	1,700	3,200	2,400		160 x 10	50
SDV-3215 HLA	1,600		1,400		1,900		150 x 8	100
SDV-3219 HLA	2,000		1,700		2,400		160 x 10	50
SDV-3224 HLA	2,500	4,000	2,200	4,200	2,900		200 x 10	100
SDV-3229 HLA	3,000		2,700		3,400		200 x 12	150
SDV-4219 HLA	2,000		1,700		2,400		160 x 10	50
SDV-4224 HLA	2,500	5,000	2,200	5,200	2,900		200 x 10	100
SDV-4229 HLA	3,000		2,700		3,400		200 x 12	150
SDV-4234 HLA	3,500		3,200		3,900		200 x 15	100
SDV-5224 HLA	2,500	6,000	2,200	6,200	2,900		200 x 10	100
SDV-5229 HLA	3,000		2,700		3,400		200 x 12	150
SDV-6224 HLA	2,500		2,200		2,900		200 x 10	100
SDV-6229 HLA	3,000	3,200	2,700	3,400	3,400		200 x 12	150
SDV-6234 HLA	3,500		3,200		3,900		200 x 15	100

Working area for other heads or details, please contact SIGMA CNC sales.

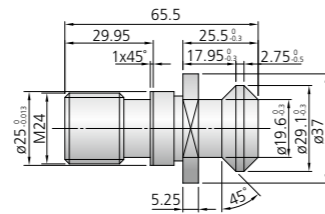
Unit: mm

Tool Shank

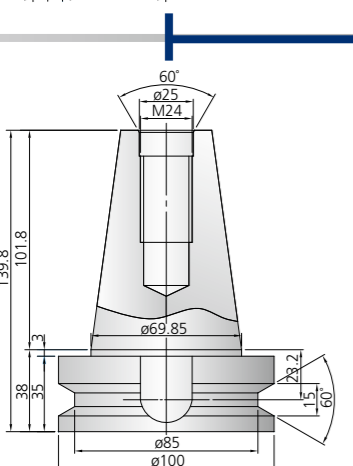
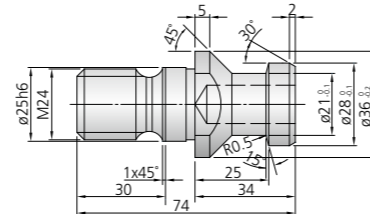
MAS 403-P50T-1



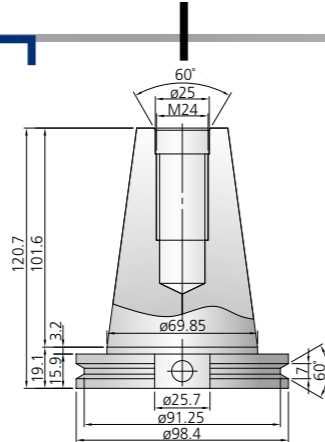
ISO 7388/2-B, PS-CAT50



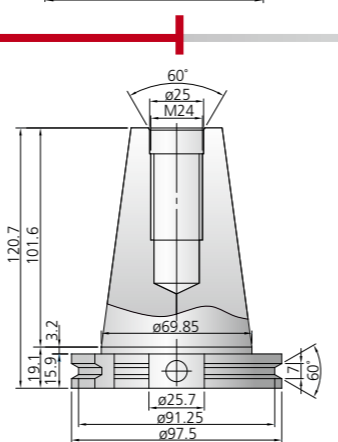
DIN 69872 Type A



BT-50



ISO 7388/1-50, CAT-50



DIN 69871 Form A

Standard Accessories

- Lubrication System
- Glazed Window-Type Splash Guard
- Screw-Type Chip Conveyor
- Link-Type Chip Conveyor
- Coolant Equipment
- Spindle Oil Cooler
- Z-Axis Hydraulic Balance Unit
- Pneumatic Unit
- Air Blow for Chip (By M-Code)
- Work Lamp
- Auto Power-Off
- M.P.G.
- Program End & Alarm Lamp
- RS-232 Interface
- Leveling Block And Bolts
- Tool Kit

- Maintenance and Operation Manual
- Controller Operation Manual and Electrical Circuit Diagram
- Inspection List

Optional Accessories

- Auxiliary Table
- Rotary Table, Index Table
- 24/ 32/ 40/ 60/ ATC Magazine Capacity
- Tool Presetter
- Auto Tool Length Diameter Measurement
- Auto Touch Probe System
- Linear Scale Feedback
- Coolant Through Spindle System

- Oil Hole Tool Shank Device
- Coolant Auto Air Mist Device
- Coolant Nozzle Angle Remote Control
- Manual - 35°, 45°, 90° Angle Head, Swing Divided Angle Head, Extension Head
- AAC-Auto Attachment Head Change - 35°, 45°, 90° Angle Head, Swing Divided Angle Head, Extension Head (For SDV-H Series Only)
- Semi-Auto Head Change, Head Change by Manual Set-up, C-Axis Divided by G-Code Control (For SDV-H Series Only)
- Spindle Thermal Compensation
- Available with Different Spindle Spec. & rpm
- Manual Full Splash Guard

Specifications

SDV-H & SDV Series

Machine models in blue background can order casting or welding machine base, others are welding machine base only.

NOTE

- () Description is optional accessories.
- To research and improve, our company reserves the right of changing design and structures at any time, this data is just for reference.

Item	Model	Unit	SDV-1611H	SDV-2011H	SDV-2215H	SDV-3215H	SDV-2219H	SDV-3219H	SDV-3224H	SDV-3229H	SDV-4219H	SDV-4224H	SDV-4229H	SDV-4234H	SDV-4239H	SDV-5224H	SDV-5229H	SDV-5234H	SDV-5239H	SDV-6224H	SDV-6229H	SDV-6234H	SDV-6239H				
X-Axis Travel	mm	1,600	2,040	2,200	3,200	2,200	3,200			4,200						5,200						6,200					
Y-Axis Travel	mm	1,100	1,100	1,500	1,500	1,900	1,900	2,400	2,900	1,900	2,400	2,900	3,400	3,900	2,400	2,900	3,400	3,900	2,400	2,900	3,400	3,900					
Z-Axis Travel	mm	760			760 (1,000)							760 (1,000) (1,200) (1,400)															
Table Size	mm	1,600x1,000	2,000x1,000	2,000x1,400	3,000x1,400	2,000x1,700	3,000x1,700	3,000x2,200	3,000x2,700	4,000x1,700	4,000x2,200	4,000x2,700	4,000x3,200	4,000x3,700	5,000x2,200	5,000x2,700	5,000x3,200	5,000x3,700	6,000x2,200	6,000x2,700	6,000x3,200	6,000x3,700					
T-slots Dimension	mm	22 (24, 28)																									
Table Load Capacity	kgs	3,000	3,500	5,000	7,000	5,000	8,000	10,000	12,500	12,000	15,000	17,000	19,000	21,000	17,500	20,000	22,500	25,000	25,000	27,500	30,000	32,500					
Distance Between Two Columns	mm	1,200		1,600			2,000			2,500	3,000	2,000	2,500	3,000	3,500	4,000	2,500	3,000	3,500	4,000	2,500	3,000	3,500	4,000			
Distance from Spindle Nose to Table	mm	250~1,010		165~925/ 165~1,165 / 270~1,030/ 270~1,270							165~925/ 165~1,165/ 165~1,365/ 165~1,565 / 270~1,030/ 270~1,270/ 270~1,470/ 270~1,670																
Spindle Taper, Tool Shank		ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40), HSK-A63, HSK-A100											ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40), HSK-A63, HSK-A100														
Spindle Speed Range	rpm	20~4,000 (30~6,000) (100~10,000) (80~8,000) (12,000~24,000)																									
Main Motor Output (30 min Rating / Cont)	HP	30 / 25 (35 / 30)											30 / 25 (35 / 30)														
Rapid Traverse Rate X, Y Axis	mm/min	15,000 (20,000)			12,000 (15,000)						10,000 (12,000)																
Rapid Traverse Rate Z Axis	mm/min	12,000 (15,000)											12,000 (15,000)														
Cutting Feed Rate	mm/min	1~5,000 (1~8,000)											1~5,000 (1~8,000)														
Minimum Input Increment	mm/min	0.001																									
Tool Magazine Capacity	pcs	(24 / 32 / 40)											(24 / 32 / 40 / 60)														
Max. Tool Diameter / Adjacent Empty Pockets	mm	Ø125 / Ø 210											Ø125 / Ø 210														
Max. Tool Length (From Gauge Line)	mm	350											350														
Max. Tool Weight	kgs	(18 / 20)											(18 / 20)														
Tool Selection Method		(ABS, Random Bi)											(ABS, Random Bi)														
Tool Change Time (T-T) (approx)	secs	8 (4.5)																									
Power Requirement	kVA	40 (45)						45 (50)						50 (55)						55 (60)						60 (65)	
Floor Space Requirement	mm	7,200x4,800	8,000x4,800	8,000x6,100	10,000x6,100	8,300x6,500	10,700x6,500	10,700x7,000	10,700x7,500	13,000x6,500	13,000x7,000	13,000x7,500	13,000x8,000	13,000x8,500	15,000x7,000	15,000x7,500	15,000x8,000	15,000x8,500	17,300x7,000	17,300x7,500	17,300x8,000	17,300x8,500					
Machine Height from Floor Level	mm	4,355																									
Machine Weight (approx)	kgs	20,000	20,500	23,500	27,000	25,500	31,500	34,000	36,000	36,500	39,500	42,500	45,500	48,500	57,500	61,000	64,500	67,500	71,500	74,500	77,500	80,500					
CNC Controller		Fanuc, Meltas, Siemens, Heidenhain Series etc.											Fanuc, Meltas, Siemens, Heidenhain Series etc.														
Positioning Accuracy	mm	JIS B6338 0.01/300 , VDI 3441 P0.025											JIS B6338 0.01/300 , VDI 3441 P0.035														
Repeatability Accuracy	mm	±0.003											±0.005														

Item	Model	Unit	SDV-1611	SDV-2011	SDV-2215	SDV-3215	SDV-2219	SDV-3219	SDV-3224	SDV-3229	SDV-4219	SDV-4224	SDV-4229	SDV-4234	SDV-4239	SDV-5224	SDV-5229	SDV-5234	SDV-5239	SDV-6224	SDV-6229	SDV-6234	SDV-6239				
X-Axis Travel	mm	1,600	2,040	2,200	3,200	2,200	3,200			4,200						5,200						6,200					
Y-Axis Travel	mm	1,100	1,100	1,500	1,500	1,900	1,900	2,400	2,900	1,900	2,400	2,900	3,400	3,900	2,400	2,900	3,400	3,900	2,400	2,900	3,400	3,900					
Z-Axis Travel	mm	760 (1,000)																									
Table Size	mm	1,600x1,000	2,000x1,000	2,000x1,400	3,000x1,400	2,000x1,700	3,000x1,700	3,000x2,200	3,000x2,700	4,000x1,700	4,000x2,200	4,000x2,700	4,000x3,200	4,000x3,700	5,000x2,200	5,000x2,700	5,000x3,200	5,000x3,700	6,000x2,200	6,000x2,700	6,000x3,200	6,000x3,700					
T-slots Dimension	mm	22 (24, 28)																									
Table Load Capacity	kgs	3,000	3,500	5,000	7,000	5,000	8,000	10,000	12,500	12,000	15,000	17,000	19,000	21,000	17,500	20,000	22,500	25,000	25,000	27,500	30,000	32,500					
Distance Between Two Columns	mm	1,200		1,600			2,000			2,500	3,000	2,000	2,500	3,000	3,500	4,000	2,500	3,000	3,500	4,000	2,500	3,000	3,500	4,000			
Distance from Spindle Nose to Table	mm	250~1,010 (250~1,250) / 355~1,115 (355~1,355)											250~1,010 (250~1,250) / 145~905 (145~1,145)														
Spindle Taper, Tool Shank		ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40)											ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40)														
Spindle Speed Range	rpm	20~4,000 (30~6,000) (100~10,000) (80~8,000)																									
Main Motor Output (30 min Rating / Cont)	HP	25 / 20 (30 / 25)			25 / 20 (30 / 25) (35 / 30)																						
Rapid Traverse Rate X, Y Axis	mm/min	15,000 (20,000)			12,000 (15,000)						10,000 (12,000)																
Rapid Traverse Rate Z Axis	mm/min	12,000 (15,000)											12,000 (15,000)														
Cutting Feed Rate	mm/min	1~5,000 (1~8,000)											1~5,000 (1~8,000)														
Minimum Input Increment	mm/min	0.001																									
Tool Magazine Capacity	pcs	(24 / 32 / 40)											(24 / 32 / 40 / 60)														
Max. Tool Diameter / Adjacent Empty Pockets	mm	Ø125 / Ø 210											Ø125 / Ø 210														
Max. Tool Length (From Gauge Line)	mm	350											350														
Max. Tool Weight	kgs	(18 / 20)											(18 / 20)														
Tool Selection Method		(ABS, Random Bi)											(ABS, Random Bi)														
Tool Change Time (T-T) (approx)	secs	8 (4.5)																									
Power Requirement	kVA	40 (45)						45 (50)						50 (55)						55 (60)						60 (65)	
Floor Space Requirement	mm	7,200x4,800	8,000x4,800	8,100x5,200	10,100x5,200	8,200x6,500	10,700x6,500	10,700x7,000	10,700x7,500	13,000x6,500	13,000x7,000	13,000x7,500	13,000x8,000	13,000x8,500	15,000x7,000	15,000x7,500	15,000x8,000	15,000x8,500	17,300x7,000	17,300x7,500	17,300x8,000	17,300x8,500					
Machine Height from Floor Level	mm	4,350																									
Machine Weight (approx)	kgs	18,500	19,000	21,000	24,500	22,000	29,000	32,500	35,000	34,000	37,000	40,000	43,000	46,000	55,000	58,500	62,000	65,000	69,000	72,000	75,000	78,000					
CNC Controller		Fanuc, Meltas, Siemens, Heidenhain Series etc.											Fanuc, Meltas, Siemens, Heidenhain Series etc.														
Positioning Accuracy	mm	JIS B6338 0.01/300 , VDI 3441 P0.025											JIS B6338 0.01/300 , VDI 3441 P0.035														
Repeatability Accuracy	mm	±0.003											±0.005														