GLOBAL
CNC Automation

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TURNING

SINEWY SERIES

MODEL	Unit	SINEWY 1325
CAPACITY		
Chuck Size	mm	165
Max. Turning Dia.	mm	175
Max. Turning Length	mm	250
Bar Capacity	mm	28
Travel (X/Z Axis)	mm	100/250
Rapid Feed (X & Z Axis)	m / min.	25
Spindle Motor Power Fanuc	kw	3.7 / 5.5
Spindle Motor Power Siemens	kw	3.7 / 5.5
Spindle Bore		A2_4
Spindle Speed	rpm	4000
Tooling System		8-Station Turret

MODEL	Unit	SINEWY 2035	SINEWY 2050	SINEWY 2075	SINEWY 20100	SINEWY 20120
CAPACITY						
Chuck Size	mm	200	200	200	200	200
Max. Turning Dia.	mm	290	350	350	350	350
Max. Turning Length	mm	315	500	750	1000	1200
Bar Capacity	mm	38	50	50	50	50
Travel (X/Z Axis)	mm	185/315	190/500	190/750	175/1070	200/1230
Rapid Feed (X & Z Axis)	m / min.	25	25	25	25	25
Spindle Motor Power Fanuc	kw	7.5 / 11	7.5 / 11	7.5 / 11	7.5/11	7.5/11
Spindle Motor Power Siemens	kw	7 / 10	9 / 12	9 / 12	9/12	9/12
Spindle Bore		A2_5	A2_6	A2_6	A2_6	A2_6
Spindle Speed	rpm	3500	3000	3000	3000	3000
Tooling System		8-Station Turret				

MODEL	Unit	SINEWY 2550	SINEWY 2550B	SINEWY 2575	SINEWY 2575B
CAPACITY					
Chuck Size	mm	250	250	250	250
Max. Turning Dia.	mm	350	350	350	350
Max. Turning Length	mm	500	500	750	750
Bar Capacity	mm	50	73	50	73
Travel (X/Z Axis)	mm	190 / 500	190/530	190 / 750	190/780
Rapid Feed (X & Z Axis)	m / min.	25	25	25	25
Spindle Motor Power Fanuc	kw	11 / 15	11/15	11 / 15	11/15
Spindle Motor Power Siemens	kw	12 / 16	12/16	12 / 16	12/16
Spindle Bore		A2_6	A2_8	A2_6	A2_8
Spindle Speed	rpm	3000	2500	3000	2500
Tooling System		8-Station Turret			

TURNING

SINEWY SERIES

MODEL	Unit	SINEWY 3050	SINEWY 3075	SINEWY 3100	SINEWY 30150	SINEWY 30200
CAPACITY						
Chuck Size	mm	305	305	305	305	305
Max. Turning Dia.	mm	490	490	490	600	600
Max. Turning Length	mm	500	750	1000	1500	2000
Bar Capacity	mm	73	73	73	73	73
Travel (X/Z Axis)	mm	265 / 500	265 / 750	265 / 1000	320 / 1500	320 / 2000
Rapid Feed (X & Z Axis)	m / min.	25	25	25	25	25
Spindle Motor Power Fanuc	kw	11 / 15	11 / 15	11 / 15	15 / 18.5	15 / 18.5
Spindle Motor Power Siemens	kw	12 / 16	12 / 16	12 / 16	12 / 16	12 / 16
Spindle Bore		A2_8	A2_8	A2_8	A2_8	A2_8
Spindle Speed	rpm	2000	2000	2000	2000	2000
Tooling System		8-Station Turret				

FEATURES

- Roller Type Guideways
- Ground Ballscrew with Double Nuts
- FEA Analyzed Machine Structure
- Operator Friendly Design
- Vibration Free Structure
- Elegant Look of Machine

NANO

MODEL	Unit	NANO 200
CAPACITY		
Chuck Size	mm	200
Max. Turning Dia.	mm	350
Max. Turning Length	mm	300
Bar Capacity	mm	50
Travel (X/Z Axis)	mm	200 / 300
Rapid Feed (X & Z Axis)	m / min.	25
Spindle Motor Power Fanuc	kw	7.5 / 11
Spindle Motor Power Siemens	kw	7 / 10
Spindle Bore		A2_6
Spindle Speed	rpm	3000
Tooling System		8-Station Turret

FEATURES

- Roller Type Guideways
- Ground Ballscrew with Double Nuts
- FEA Analyzed Machine Structure
- Operator Friendly Design
- Vibration Free Structure
- Elegant Look of Machine

TURNING

VIGOR

MODEL	Unit	VIGOR 160	VIGOR 200
CAPACITY			
Chuck Size	mm	165	200
Max. Turning Dia.	mm	290	350
Max. Turning Length	mm	300	500
Bar Capacity	mm	42	50
Travel (X/Z Axis)	mm	185/300	185/500
Rapid Feed (X & Z Axis)	m / min.	25	25
Spindle Motor Power Fanuc	kw	7.5/11	7.5/11
Spindle Motor Power Siemens	kw	7/10	9/12
Spindle Bore		A2_5	A2_6
Spindle Speed	rpm	3000	3000
Tooling System		8-Station Turret	

FEATURES

- Ball Type Guideways
- Ground Ballscrew with Double Nuts
- FEA Analyzed Machine Structure
- Operator Friendly Design
- Vibration Free Structure
- Elegant Look of Machine

LINEAR

MODEL	Unit	LINEAR 8020	LINEAR 1530
CAPACITY			
Std. Turning Dia	mm	80	150
Max. Turning Dia.	mm	120	180
Max. Turning Length	mm	200	300
Bar Capacity	mm	28	38
Travel (X/Z Axis)	mm	280 / 200	400 / 300
Rapid Feed (X & Z Axis)	m / min.	25	25
Spindle Motor Power Fanuc	kw	3.7 / 5.5	7.5 / 11
Spindle Motor Power Siemens	kw	3.7 / 5.5	7 / 10
Spindle Bore		A2_4	A2_5
Spindle Speed	rpm	4000	3500
Tooling System		Linear	

FEATURES

- Roller Type Guideways
- Ground Ballscrew with Double Nuts
- FEA Analyzed Machine Structure
- Operator Friendly Design
- Vibration Free Structure
- Elegant Look of Machine

MILLING

VMC C-FRAME

MODEL	Unit	VMC 600	VMC 800	VMC 1000
CAPACITY				
X Axis	mm	600	800	1000
Y Axis	mm	400	550	600
Z Axis	mm	400	550	600
Table Top to Spindle Face	mm	100 to 500	100 to 650	150 to 750
Distance from floor to table	mm	950	950	950
Spindle Center –column front distance	mm	500	530	640
TABLE				
Table Size	mm	810 x 440	1000 x 550	1200 x 650
Table Slot (No./Size/Pitch)	mm	3/18/125	5/18/100	5/18/100
Max. Load on table	kg	400	500	1000
SPINDLE POWER STANDARD				
Max. Spindle Speed	rpm	8000	8000	8000
Spindle Nose	-	BT-40	BT-40	BT-40
Bearing Diameter	mm	60	70	70
Spindle Power (Cont./S6-40 % rating)	kw	Siemens 5.5/7.5	Siemens 9/12	Siemens 9/12
Spindle Power (Cont./30 min rating	kw	Fanuc 5.5/7.5	Fanuc 7.5/11	Fanuc 7.5/11
Spindle Power (Cont./30 min rating	kw	Mitsubishi 5.5/7.5	Mitsubishi 7.5/11	Mitsubishi 7.5/11
FEED RATE				
Rapid Traverse (X-Y-Z)	m/min	25	25	25
Cutting Feed Rate (X-Y-Z)	m/min	10	10	10
ATC (Automatic Tool Change)				
Tool Capacity	Nos.	24	24	24
Max. Tool Dia.(with Adj. tool)	mm	80	80	80
Max. Tool Dia. (without Adj. Tool)	mm	150	150	150
Max. Tool Length	mm	250	250	250
Max. Tool Weight	kg	8	8	8

FEATURES

- Broader Column Structure
- Higher Stability with wide base
- Finite element Analyzed Machine Structure
- Table with high load carrying capacity
- Roller Guide ways for higher load capacity
- Ergonomic Design
- Electronic Counter Balance
- Manual & Auto Coolant System
- Centralized Automatic Lubrication
- Easy Chip Evacuation

STANDARD ACCESSORIES

- AC Variable Speed Spindle Motor
- Automatic Tool Changer (24 tools)
- Basic Coolant System with chip tray
- Manual Pulse generator
- Centralized automatic lubrication
- Panel air conditioner
- Air gun
- Spindle taper air blow
- Ring coolant around spindle
- Maintenance tool kit
- Rear Chip disposal

OPTIONAL ACCESSORIES

- Chip Conveyer in lieu of chip tray
- High pressure coolant through spindle
- CNC rotary axis as 4th axis / indexing
- Voltage Stabilizer
- Edge fnder
- Optical Scale
- Automatic Front Door
- Chiller Unit
- Prob for tool offset and job offset

MILLING

DOUBLE COLUMN MACHINE

MODEL	Unit	DCM 1500	DCM 2012	DCM 2218
CAPACITY				
X Axis (Spindle Horizontal)	mm	1500	2000	2200
Y Axis (Table front to Back)	mm	1000	1200	1800
Z Axis (Spindle Vertical)	mm	750	750	750
Table Top to Spindle Face	mm	150 to 900	150 to 900	150 to 900
Distance between Column	mm	1240	1340	1900
TABLE				
Table Size	mm	1700x1000	2100x1200	2000x1600
Table Slot	mm	22x7x125	22x7x160	22/11/125
Floor to table top	mm	945	945	925
Max. Load on table	kg	2200	4000	5000
SPINDLE				
Max. Spindle Speed	rpm	0-6000	0-6000	6000
Spindle Nose	-	BT-50	BT-50	BT-50
Bearing Dia	mm	100	100	100
Spindle Power (Con./30 min)	kw	Fanuc 15/18.5 Siemens 15/18.5	Fanuc 15/18.5 Siemens 15/18.5	Fanuc 18.5/22 Siemens 18.5/22
FEED RATE				
Rapid Traverse (X-Y-Z)	m/min	20	20	20
Cutting Feed Rate (X-Y-Z)	m/min	10	10	10
ATC (Automatic Tool Change)				
Tool Capacity	Nos.	20	20	20
Max. Tool Dia.(with Adj. tool)	mm	125	125	125
Max. Tool Dia. (without Adj. Tool)	mm	200	200	200
Max. Tool Length	mm	400	400	400
Max. Tool Weight	kg	20	20	20

FEATURES

- Highly rigid double column design
- Higher stability with wide base
- Suitable for high speed machining & hard part machining
- Roller guideways for higher load capacity
- Minimum overhand spindle for better performance
- Easy job handling with widely open door area
- Easy chip removal
- User friendly design

STANDARD ACCESSORIES

- Automatic tool changer (20 tools)
- Basic coolant system with chip tray
- Manual pulse generator
- Centralized automatic lubrication
- Panel air conditioner
- Full machine guard
- Air gun
- Spindle taper air blow
- Maintenance tool kit
- Chip Flushing
- Screw Conveyor

OPTIONAL ACCESSORIES

- Chip conveyer in lieu of chip tray
- High pressure coolant through spindle
- CNC rotary axis as 4th axis / indexing
- Coolant gun
- Voltage stabilizer
- Edge finder
- Automatic Door
- Chiller Unit
- Prob for tool offset and job offset

AUTOMATION

AF AUTOMATION

MODEL	Unit	AF-80	AF-100
CAPACITY			
Max. Turning Dia	mm	80	100
Max. Turning Length	mm	50	50
Bar Capacity	mm	28	38
Travel (X/Z Axis)	mm	500/200	500/200
Rapid Feed (X & Z Axis)	m / min.	25	25
Spindle Motor Power Fanuc	kw	3.7/5.5	5.5/7.5
Spindle Motor Power Siemens	kw	828D 3.7/5.5	828D 5.5/7.5
Spindle Bore		A2_4	A2_5
Spindle Speed	rpm	4000	3500
Tooling System		LINEAR	

FEATURES

- High Productivity by providing automatic work Piece Transfer
- Compact Machine Seize, Saves approx. 25% of space
- High Efficiency & accuracy
- Low Vibration
- FEA Analyzed Machine Structure
- Linear block adjustment
- Pick & place system
- Easy Chip Removal

STANDARD ACCESSORIES

- Roller Type Guideways
- Ground Ball Screw with Doubles Nuts
- Foor Switch
- Axial Tool Holders
- Boring Tool Holders
- Hydraulic Chuck with Actuating Cylinders
- Radial Tool Holder
- Patrol Light
- Pneumatic Pick & Place

OPTIONAL ACCESSORIES

- Power Head (Turning & Milling)
- Online Measurement System
- Mechanical Arm System
- Bowl Feeder

AUTOMATION

DS AUTOMATION

MODEL	Unit	DS-80	DS-100
CAPACITY			
Swing Over Bed	mm	300	300
Max. Turning Diameter	mm	80	100
Max. Turning Length	mm	50	50
Cross X axis Travel	mm	600 + 600	600 + 600
Longitudinal Z axis Travel	mm	200 + 200	200 + 200
Rapid (X & Z Axis)	m/min	25	25
Spindle Motor Power	kW	Siemens 828D 3.7/5.5 Fanuc 3.7/5.5	Siemens 828D 5.5/7.5 Fanuc 5.5/7.5
Spindle Bore	mm	40	50
Spindle Nose		A2_4	A2_5
Chuck Size	mm	165	165
Max. Bar Capacity	mm	28	38
Spindle Speed Range	rpm	50-4000	50-3500
Full Power Range	rpm	1000-4000	1000-3500
Tooling System		LINEAR	

FEATURES

- High Productivity by providing automatic work Piece Transfer
- Compact Machine Size, Saves approx. 25% of Space
- High Efficiency & Accuracy
- Low Vibration
- FEM Analyzed Machine Structure
- Twin Spindle
- Linear block adjustment
- Pick & place system
- Easy Chip Removal

STANDARD ACCESSORIES

- Roller Type Guideways
- Ground Ball Screw with Double Nuts
- Foot Switch
- Axial Tool Holders
- Boring Tools Holders
- Hydraulic Chuck with Actuating Cylinders
- Radial Tool Holder
- Patrol Light
- Pneumatic Pick & Place

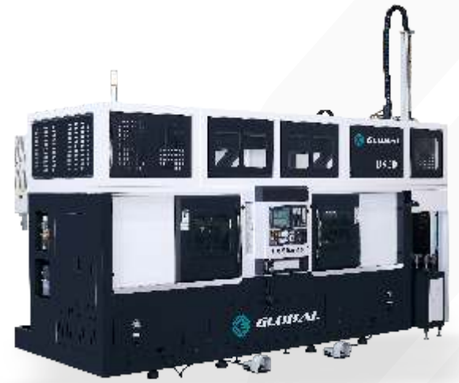
STANDARD ACCESSORIES

- Power Head (Turning & Milling)
- Online Measurement System
- Mechanical Arm System
- Bowl Feeder

AUTOMATION

DS AUTOMATION

MODEL	Unit	DS-135G	DS-150G	DS-200G
CAPACITY (BASIC MACHINE)				
Swing Over Bed	mm	350	450	300
Max. Turning Dia.	mm	135	150	210
Max. Turning Length	mm	150	150	150
Cross X1 & X2 Axis Travel	mm	150 + 150	185 + 185	200 + 200
Longitudinal Z1 & Z2 Axis Travel	mm	250 + 250	300 + 300	300 + 300
Rapid (X & Z Axis)	m/min.	25	25	25
CAPACITY (GANTRY ROBOT)				
Max. Clamping Dia.	mm	80	80	172
Max. Clamping Length	mm	50	50	42
Max. Part Weight (Each Components)	Kg	1(2)	1(2)	5
Loader X (Left/Right) Axis Stroke	mm	795	-	890
Max. Speed (X & Z Axis)	m/min	100	100	100
Loader Z (Left/Right) Axis Stroke	mm	2855	-	3640
Std. Loading Time	Sec.	10	12	20
SPINDLE (2 NOS.)				
Spindle Motor Power (Cont. / 30min.)	kw	3.7/5.5	7/10	SIEMENS 9/12 FANUC 7.5/11
Spindle Bore	mm	40	50	65
Spindle Nose	-	A2_4	A2_5	A2_6
Chuck Size OP10	mm	165	165	200
Chuck Size OP20	mm	165	165	200
Max. Bar Capacity	mm	28	38	50
Spindle Speed Range	rpm	50-4000	50 - 3500	50-3000
Full Power Speed Range	rpm	1000-2500	1000 - 3500	1000-3000
Tooling System		LINEAR		



FEATURES

- Twin spindle chucker with 3 axis gantry robot
- Twin Tool Block System
- Un-manned loading to unloading operations
- Auto feeder and change over station available
- Job measuring System, Cleaning System & orientation unit available
- Hydraulic chucking on both spindles
- Centralized & programmable lubrication
- Electrical panel with A.C.
- Fully tooled up solutions to meet customer need

STANDARD ACCESSORIES

- Roller Type Guideways
- Ground Ball Screw with Double Nuts
- Foot Switch
- Axial Tool Holders
- Boring Tool Holders
- Hydraulic chuck with Actuating Cylinders
- Radial Tool Holder
- Patrol Light
- Pneumatic Pick & Place

OPTIONAL ACCESSORIES

- Power Head (Turning & Milling)
- Online Measurement System
- Mechanical Arm System
- Bowl Feeder

SPM

FACING AND CENTERING

MODEL	F & C 1075	F & C 1100	F & C 1600
CAPACITY			
Max. Facing Diameter (mm)	100	100	100
Max. Drilling Diameter (mm)	25	25	25
Component Length (mm)	150 to 750 mm	150 to 1000 mm	150 to 1600 mm
Drilling Slide Rapid Rate (m/min)	25	25	25
Milling Slide Rapid Rate (m/min)	25	25	25
Milling Spindle Nose	BT-40	BT-40	BT-40
Drilling Spindle Nose	BT-40	BT-40	BT-40
A.C Induction Spindle Motor Power - 2 Nos. (hp)	5.5	5.5	5.5
Nos. of Spindle	4	4	4
Milling Spindle Speed (rpm)	500-2000	500-2000	500-2000
Drilling Spindle Speed (rpm)	500-2000	500-2000	500-2000
Jig Fixture	Hydraulic Self Centering Wise		

FEATURES

- Four axis controller based machine (Siemens / Fanuc)
- BT-40 and BT-50 Cartridge Spindle
- 90 degree concept for easy loading and unloading
- Easy chip removal
- Total workpiece length accuracy +/-0.025
- Workpiece face runout accuracy 0.020 @Dia. 100mm
- Workpiece centering depth accuracy +/-0.015
- Hydraulic self centeric wise for job holding
- Roller Guideways
- Full machine guard

STANDARD ACCESSORIES

- Servo Motor with Incremental Encoder
- Cartridge Type Spindle
- Hydraulic powerpack with 1.5 HP Motor
- Centralized and programmable Lubrication
- Self Centering Type Clamping Device
- Auto Coolant

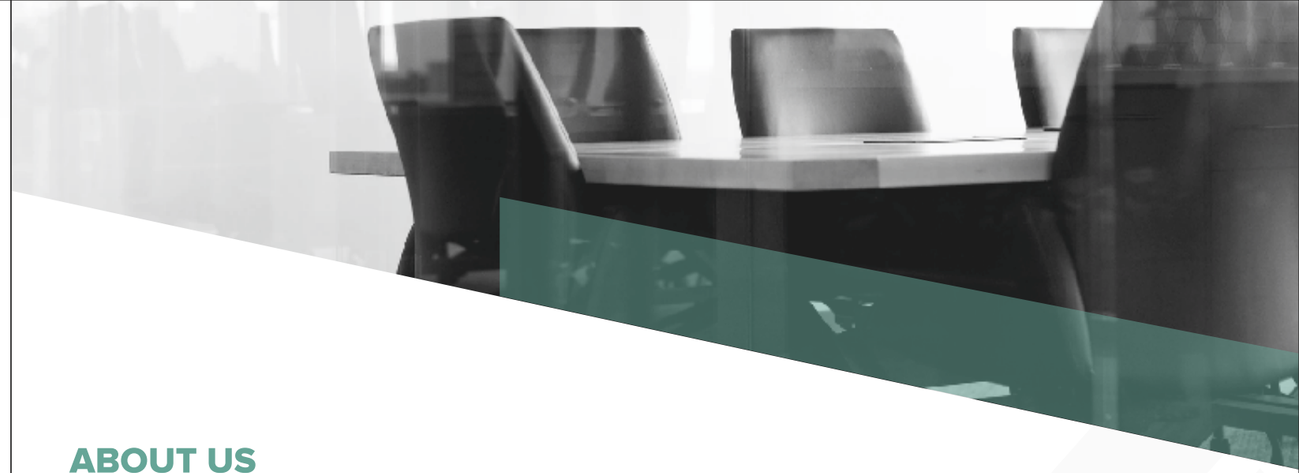
OPTIONAL ACCESSORIES

- Auto Door
- Patrol Light
- Stabilizer
- Chip Conveyor
- All Possible Customization

CONTROL SYSTEM ACCESSORIES

- RS-232 Serial Interface Port
- Feed Rate Override
- Manual Data Input
- 2 Axis Simultaneous
- Circular Interpolation
- Thread Cutting Cycle
- Electronic Hand Wheel
- Constant Surface Speed Control
- Part Programming Storage and Editing
- Direct Drawing Dimension Programming

** The continuous improvements in machine design may change the specifications/features and to be reconfirmed at the time of ordering.



ABOUT US

In 2003, the company built its reputation by making a hydraulic power pack under the name of Global Hydraulics. Since then, this company has started to provide a satisfactory product to the customer end.

In 2007, Global Hydraulics introduced the first and impressive Special Purpose Machine (SPM) as per customers' requirements. Special Purpose Machines integrate all different operations such as Turning, Boring, Drilling, Notching, Broaching, Cutting with different types of automation systems namely gantry systems and robot arms.

Since 2013 company started manufacturing standard CNC turning and milling machines. Currently, the company has more than 3000 active installations across India. The company's infrastructure spread in 3 acres of land at Metoda and has 300+ working professionals.

3
Acres Infrastructure

300+
Skilled Manpower

3000+
Machines Installed

25+
Quality Product