SWANAND

MACHINE / MODEL - SSWH100 SERIES - SPECIFICATIONS			
DESCRIPTION	**UNIT**	**VALUE**	**STANDARD ACCESSORIES**
CAPACITY			◆ Work Head & Tail stock centres ◆ Cartridge type Wheel spindle with rolling element bearings. ◆ Wheel spindle of 33 M/s ◆ X & Z axes with V & Flat Turcite coated guides. ◆ Work Head with poly V Belt & pulley ◆ Manually operated tail stock. ◆ Tail stock with manual micro taper correction. ◆ Surround guarding system with sliding doors. ◆ Fanuc / Siemens 828D 2 Axes CNC System ◆ Hydraulic steady rest
Max grinding Diameter	mm	100	
Plunge width	mm	500/750/1000	
Admit between centres	mm	550/800/1100	
Max Swing over table	mm	200	
WHEEL INFEED – X AXIS			
Stroke	mm	200	
Rapid feed rate	m/min	5000	
Torque on slide	Nm	9-Jun	
Minimum increment of slide- Diametrical	mm	0.001	
Guideways		V&Flat with Turcite coating	
TABLE TRAVERSE – Z AXIS			
Stroke	mm	650 / 900 / 1250	
Rapid feed rate	mm/min	5000	
Torque on slide	Nm	9-Jun	
Guideways		V&Flat with Turcite coating	**OPTIONAL ACCESSORIES**
WHEEL HEAD			◆ Active flagging device ◆ Gap eliminator & Crash detector ◆ VFD for work head ◆ Auto wheel balancer ◆ Grinding wheel load / unload arm. ◆ Hydraulically actuated tail stock ◆ Paper band cum magnetic filtration system. ◆ Panel AC. ◆ Auto Door Closure with full guarding ◆ Mist collection unit. ◆ Linear scale for X Axis ◆ Fanuc OiTD CNC system. ◆ Servo Driven Work head. ◆ 5 kW spindle power ◆ 45 m/s wheel peripheral speed ◆ Grinding wheel width of 80mm ◆ Crush type Dia roll dresser ◆ Wheel static balancing stand with arbor
Grinding Wheel Size – Max- OD x ID x W	mm x mm x mm	500x203.4x50[80]	
Grinding wheel Dia- Minimum	mm	400	
Spindle Power	kW	3.7[5]	
Wheel Peripheral Speed	m/s	33[45]	
Type of spindle Bearings		Rolling element	
Spindle Lubrication		Grease packed	
WORK HEAD			
Centre	MT	5	
Speed through Pulley & Belt	RPM	10-400 Induction motor	
Type – Standard		Dead Spindle	
Power	kW	0.5	
TAIL STOCK			
Centre	MT	4	
Quill Travel	mm	40	
Micro Taper Correction- Manual	mm	+/- 0.04	
Actuation		Manual	
DRESSER			
Tail stock / Work head mounted		Standard	
Plunge type [crush]		Option	
CNC SYSTEM	Fanuc / Siemens 828D		
There can be minor changes in the specification & can changed without notice.			

Kiseki Machinery

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SWANAND

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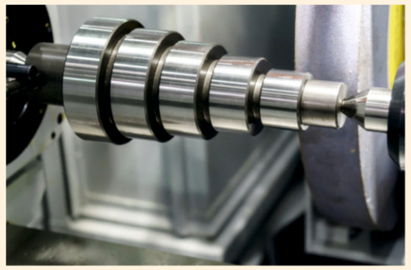
CNC CYLINDRICAL GRINDING MACHINES
SSWH 100 SERIES - 300 / 500 / 750



The machines are designed for simultaneous grinding of plunge & traverse grinding of several diameters without change in setups. All the operations are done in a single setup using a formed wheel or multiple wheels that help in accurately controlled profile geometry & contributing to increased productivity.

Main Features :

- The machines are with 2 axes controls.
- The machine structure is with a single piece Cast Iron Bed.
- All castings are double stress relieved.
- The wheel head in feed axis is driven by zero back lash ball screws generating response of less than 0.001 mm for the wheel in feed ensuring very close Cylindricity on the components..
- The machines can be integrated with in process size control gauge, flagging device & Auto wheel balancers ensuring size control in production.
- Machines available in three range of admit, covering a wide envelope of components.
- The machine operates with operator friendly SSSPL standard software & diagnostics enhancing the ease of operation & maintainability of the machine.

CNC ANGULAR WHEEL HEAD GRINDING MACHINES SAWH 100 SERIES - 500 / 750 / 1000

The machines are designed for simultaneous grinding of plunge grinding of several diameters & shoulders without change in setups. All the operations are done in a single setup using a formed wheel or multiple wheels that help in accurately controlled profile geometry & contributing to increased productivity.

Main Features :

- The machines are with 2 axes controls.
- The machine structure is with a single piece Cast Iron Bed.
- All castings are double stress relieved.
- The wheel head infeed axis is driven by zero back lash ball screws generating response of less than 0.001 mm for the wheel infeed ensuring very close Cylindricity on the components..
- The machines can be integrated with inprocess size control gauge, flagging device & Auto wheel balancers ensuring size control in production.
- Machines available in three range of admit, covering a wide envelope of components.
- The machine operates with operator friendly SSSPL standard software & diagnostics enhancing the ease of operation & maintainability of the machine.

MACHINE / MODEL - SSWH100 SERIES - SPECIFICATIONS

DESCRIPTION	UNIT	VALUE
CAPACITY		
Max grinding Diameter	mm	100
Plunge width	mm	50 [80]
Admit between centres	mm	300/500/750
Max Swing over table	mm	200
WHEEL INFEED – X AXIS		
Stroke	mm	200
Rapid feed rate	m/min	5000
Torque on slide	Nm	9-Jun
Minimum increment of slide-Diametrical	mm	0.001
Guideways		Roller Guides
TABLE TRAVERSE – Z AXIS		
Stroke	mm	450 / 600 / 850
Rapid feed rate	mm/min	5000
Torque on slide	Nm	9-Jun
Guideways		Roller Guides
WHEEL HEAD		
Wheel approach	45	Degrees
Grinding Wheel Size – Max- OD x ID x W	mm x mm x mm	500x203.4x50[80]
Grinding wheel Dia- Minimum	mm	400
Spindle Power	kW	3.7[5]
Wheel Peripheral Speed	m/s	33[45]
Type of spindle Bearings		Rolling element
Spindle Lubrication		Grease packed
WORK HEAD		
Centre	MT	5
Speed through Pulley & Belt	RPM	10-400 Induction motor
Type – Standard		Dead Spindle
Power	kW	0.5
TAIL STOCK		
Centre	MT	4
Quill Travel	mm	40
Micro Taper Correction- Manual	mm	+/- 0.04
Actuation		Manual
DRESSER		
Tail stock / Work head mounted		Standerd
Plunge type [crush]		Option
CNC SYSTEM	Fanuc / Siemens 828D	

STANDARD ACCESSORIES

- Work Head & Tail stock centres
- Cartridge type Wheel spindle with rolling element bearings.
- Wheel spindle of 33 M/s
- X & Z axes with V & Flat Turcite coated guides.
- Work Head with poly V Belt & pulley
- Manually operated tail stock.
- Tail stock with manual micro taper correction.
- Surround guarding system with sliding doors.
- Fanuc / Siemens 828D 2 Axes CNC System
- Hydraulic steady rest

OPTIONAL ACCESSORIES

- Active flagging device
- Gap eliminator & Crash detector
- VFD for work head
- Auto wheel balancer
- Grinding wheel load / unload arm.
- Hydraulically actuated tail stock
- Paper band cum magnetic filtration system.
- Panel AC.
- Auto Door Closure with full guarding
- Mist collection unit.
- Linear scale for X Axis
- Fanuc OiTD CNC system.
- Servo Driven Work head.
- 5 kW spindle power
- 45 m/s wheel peripheral speed
- Grinding wheel width of 80mm
- Crush type Dia roll dresser
- Wheel static balancing stand with arbor

There can be minor changes in the specification & can changed