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"The world rotates with us"

ORS KORHADON

ORSKOREA's pursuit is to take the next step in the development of smart machines by combining Korea's Mechanical Engineering skills and Turkey's Bearing Manufacturing know-hows.

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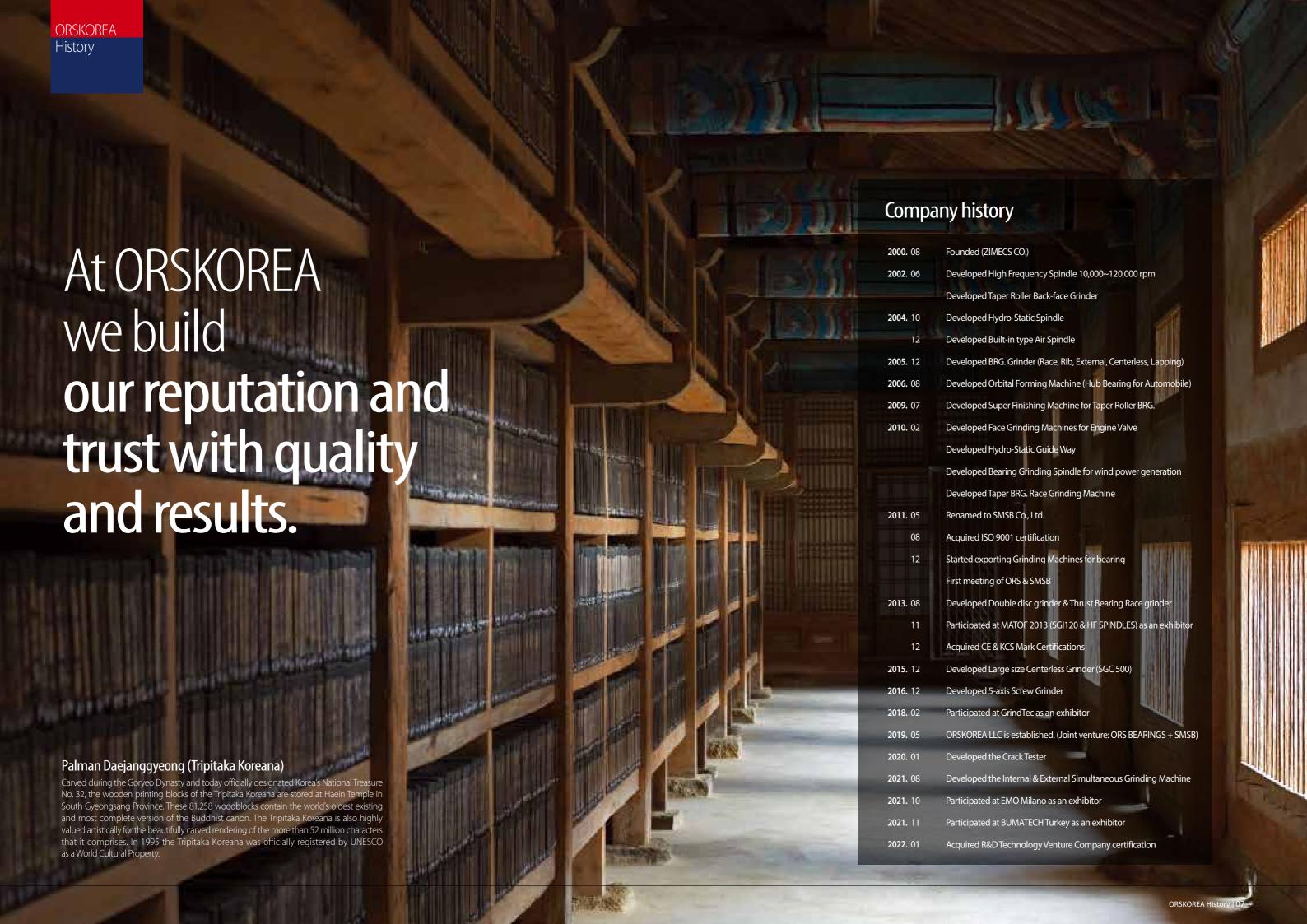
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ORSKOREA's next step for the next generation of Smart Machines.

With the constant development of Korea's technology, ORSKOREA has been manufacturing grinding machines that are of the highest standard by working together with Korea's automobile and electronics industries. With nearly two decades of experience manufacturing grinding machines and spindles, the new beginning of ORSKOREA starts with its new name.







ORS

ORSKOREA is the first local branch of ORS in Korea. ORS is located in Ankara, the capital of Turkey. Since its establishment in 1982, ORS is now one of the top manufacturers and suppliers to the European global carmakers.





Real solutions for real challenges.



KOREA

We design our products with our clients in mind. Our user-friendly interface and design provide easy and intuitive operation of the machine. We are currently manufacturing and developing machines that are self-controlled and operated.

























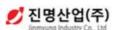
















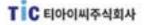




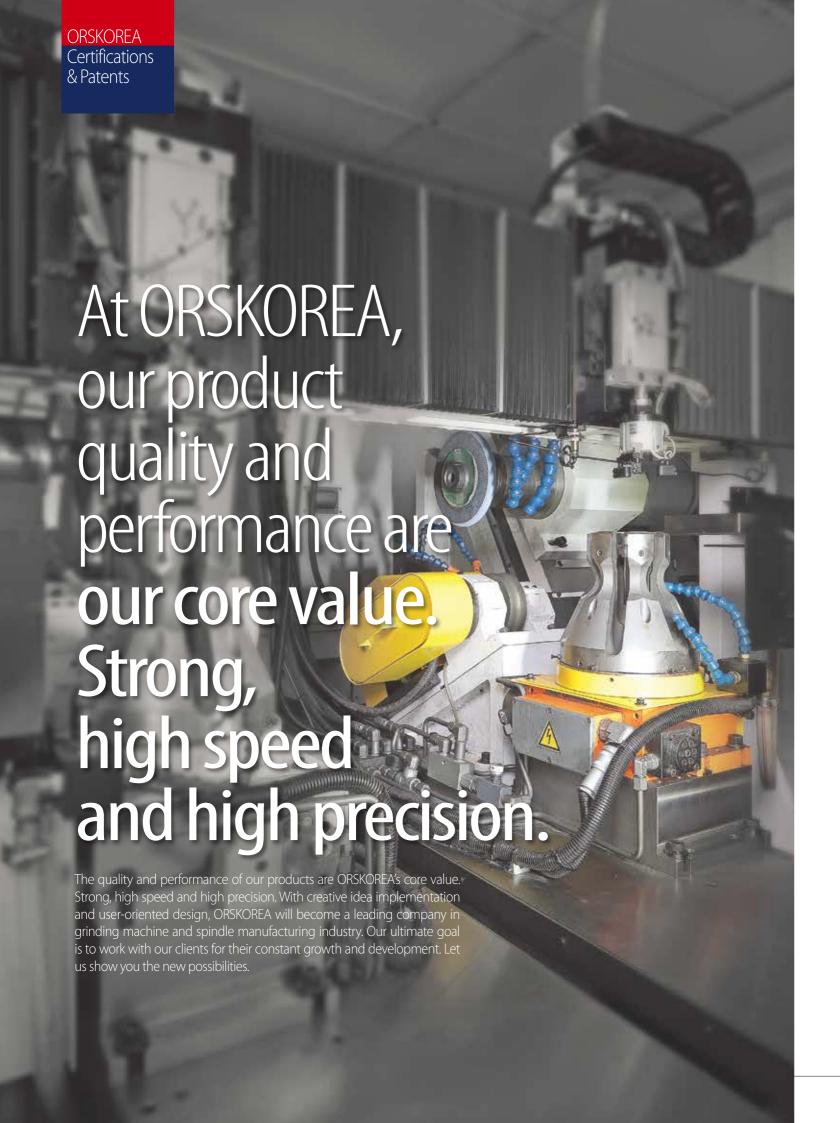




















































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Grinding Machines

Are you looking for a grinding machine for precision parts and bearings?

ORSKOREA has been developing and manufacturing cutting-edge products and machine tools to become a global leader in the machine industry with uncompromising quality, performance, and price. ORSKOREA, as a joint venture between Korea and Turkey, has been raising our competitiveness in the world market by localizing ultra-precision high-speed grinding machines. Also, we combined innovative new mechanisms, smart Al, and IT technologies together to make user-friendly machine tools even for beginners. ORSKOREA's machine series were designed by our senior R&D and technical team to ensure the quality is strictly under control. Our ultimate goal is to become a leading company in unmanned autonomous machine tools in the near future through full R&D.







Internal Grinding Machine SGI 40

Part	Description
Grinding Type	NC oscillation or Plunge
Workpiece Mounting	Two Roll & One Shoe (or Air Chuck)
Machining Dia. Range	8 to 40
Machining Width Range	5 to 40
Machining Bore Range	5 to 30
LOADER	Flow Pusher Type
DRESS Type	Up-down Type Rotary Dresser
W/H Rotating Angle	±1°
Spindle Height	About FL 950
Work Spindle RPM	220 to 2,000 rpm
Hydraulic TANK Capacity	40 Liter
Outer Dimension	1600 × 1400 × 1800 H (mm)
Weight	3.0 Ton

Motor

MOTOL	
Part	Description
Cross Slide	AC Servo 1.5 kW
G.W Table	AC Servo 1.5 kW
W/H Drive	0.2 kW × 4P
Dresser	H/F Spindle (BMR:GER)
G/W	ORSKOREA H/F Spindles
Oil Lubrication	0.7 kW (Willy-Vogel)





Internal Grinding Machine SGI 150

Part	Description
Grinding Type	NC oscillation or Plunge
Workpiece Mounting	Two Shoe & Magnetic Chucking
Machining Dia. Range	12 to 150
Machining Width Range	5 to 60
Machining Bore Range	5 to 30
LOADER	Flow Pusher Type or Cassette Type
DRESS Type	Up-down Rotary Dresser or Point Dresser
W/H Rotating Angle	0° to 30°
Spindle Height	About FL 1050
Work Spindle RPM	400 to 3,600 rpm
Hydraulic TANK Capacity	40 Liter
Outer Dimension	2000 × 1875 × 1650 H (mm)
Weight	4.0 Ton
Motor	

Motor	
Part	Description
Cross Slide	AC Servo 1.5 kW
G.W Table	AC Servo 1.5 kW
W/H Drive	1.5 kW 4P AV Motor
Dresser	Hydraulic Motor
G/W	ORSKOREA H/F Spindles
Hydraulic	1.5 kW 4P AC Motor





Internal Grinding Machine

SGI 120

Spindle Drive

G.W

Hydraulic

Specifications	
Part	Description
Grinding Type	NC oscillation or Plunge
Workpiece Mounting	Two Shoe & Magnet Chucking
Machining Dia. Range	20 to 120
Machining Width Range	5 to 40
Machining Bore Range	12 to 100
LOADER	Flow Type or Cassette Type
DRESS Type	Up-down Type Point (rotary) Diamond Dresser
W/H Rotating Angle	± 1 ° /-2 to +30 °
Spindle Height	About FL 1050
Work Spindle RPM	220 to 800 rpm/500 to 2,000 rpm (Two Speed)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	2100 × 1900 × 1950 H (mm)
Weight	3.8 Ton
Motor	
Part	Description
Cross Slide	AC Servo 1.5 kW
G.W Table	AC Servo 1.5 kW

1.5 kW 2P AC Motor

1.5 kW 4P AC Motor

ORSKOREA H/F Spindles





Internal Grinding Machine SGI 250/300

Specifications

Part	Description
Grinding Type	NC oscillation or Plunge
Workpiece Mounting	Two Shoe & Magnet Chucking
Machining Dia. Range	90 to 220
Machining Width Range	20 to 80
Machining Bore Range	60 to 200
LOADER	Cassette Type or ETC
DRESS Type	Up-down Type Point (rotary) Diamond Dresser
Spindle Rotating Angle	(OPTION: -2 to +30 degree)
Spindle Height	About FL 1050
Work Spindle RPM	220 to 800 rpm/500 to 2,000 rpm (Two Speed)
Cross Slide Stroke	230 mm
Hydraulic TANK Capacity	40 Liter
Outer Dimension	2100 × 1900 × 1950 H (mm)
Weight	5.0 Ton

Part	Description
Cross Slide	AC Servo 1.5 kW
G.W Table	AC Servo 3.0 kW
Work Spindle	1.5 kW 4P AC Motor
G.W	ORSKOREA H/F Spindles
Hydraulic	1.5 kW 4P AC Motor











Internal Grinding Machine SGI 200(W)

Motor Part

Cross Slide

G.W Table

Hydraulic

G.W

Work Spindle

specifications	
Part	Description
Grinding Type	NC oscillation or Plunge
Workpiece Mounting	Diaphragm Chucking(HYD'Chuck)
Machining Dia. Range	90 to 220
Machining Width Range	20 to 80
Machining Bore Range	60 to 200
LOADER	Double Arm Type (Servo)
DRESS TYPE	Fixed Type Rotary Form Dresser (HYD)
Spindle Rotating Angle	± 1 ° (OPTION : -2 to +30 degree)
Spindle Height	About FL 1200 (1000)
Work Spindle RPM	Max 4,000 rpm (Servo)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	2100 × 1900 × 1950 H (mm)
Weight	5.5 Ton

Description

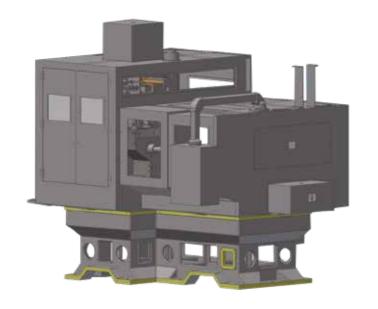
AC Servo 3.5 kW

AC Servo 3.5 kW

AC Servo 7.0 kW

ORSKOREA H/F Spindles 1.5 kW 4P AC Motor





External Grinding Machine SGE 500

The second secon	
Description	
NC controlled Plunge	
Two Shoe & Magnet Chuck	
20 to 100	
10 to 50	
Single or Double Arm Type	
Forming Dresser Spindle	
OPTION -6 to +35degree	
Hydro-Static or Rolling Bearing Type	
About FL 1150	
150 to 1800 rpm	
Max. 2,200 rpm (3,000m/min)	
40 Liter	
2100 × 1900 × 1950 H (mm)	
5.5 Ton	

G.W

Part	Description	
Dia.	510 mm	
Width	50 mm	
Bore	304.8 mm	

Motor

IVIOLOI	
Part	Description
G.W Table	AC Servo 3.0 kW
Dress Table	AC Servo 1.5 kW
Spindle Drive	1.5 kW 4P AC Motor
G.W(Belt Drive)	11 kW 4P AC Motor
Hydraulic	1.5 kW 4P AC Motor





External Grinding Machine SGE 400

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Part	Description
Grinding Type	NC controlled Plunge
Workpiece Mounting	Two Shoe & Magnet Chuck
Machining Dia. Range	10 to 65
Machining Width Range	6 to 50
Loader	Single or Double Arm Type
Dresser	Forming Dresser Spindle
Spindle Angle Range	OPTION -6 to +35degree
Grinding Spindle	Hydro-Static or Rolling Bearing Type
Spindle Height	About FL 1150
Work Spindle RPM	150 to 1800 rpm
Grinding Wheel Spindle RPM	Max 2,500 rpm
Hydraulic TANK Capacity	40 Liter
Outer Dimension	2100 × 1900 × 1950 H (mm)
Weight	4.3 Ton

G.W

Part	Description	
Dia.	510 (450) mm	
Width	50 mm	
Bore	304.8 mm	

Motor

Part	Description
G.W Table	AC Servo 1.5 kW
Dress Table	AC Servo 1.5 kW
Spindle Drive	1.5 kW 4P AC Motor
G.W(Belt Drive)	7.5 kW 4P AC Motor
Hydraulic	1.5 kW 4P AC Motor

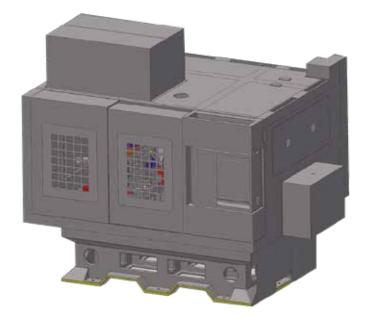




External Grinding Machine SGE 600(W)

Description	
NC controlled Plunge	
Two Shoe & Magnetic Chucking	
80 to 150	
10 to 80	
Double Arm Type	
Forming Dresser Spindle	
OPTION -6 to +35degree	
Rolling Bearing Type	
About FL 1115	
Max 1200 rpm	
Max 3,100 rpm	
80 Liter	
4000 × 3500 × 1950 H (mm)	
7.0 Ton	
Description	
610 mm	
50 mm	
304.8 mm	
Motor	
Description	
AC Servo 3.5 kW × 2 axes	
AC Servo 2.0 kW	
AC Servo 7.0 kW	
AC Servo 1.4 kW	
AC Servo 1.6 kW	
37(22) kW 4P AC Motor	
0.75 kW 2P AC Motor	







Centerless Grinding Machine

Specifications

Specifications	
Part	Description
Grinding Type	Centerless Through Feed or Infeed
Workpiece Mounting	Workrest Support
Machining Dia. Range	2 to 120
Max. Machining Length	Max 200 mm
LOADING	Through Feeding or Infeed
DRESS Type	Traverse Type Point Diamond Dresser
Hydraulic TANK Capacity	60 Liter
Outer Dimension	2000 × 1600 × 1600 H (mm)
Weight	4.0 Ton

G.W

Part	Description
Dia.	510 mm
Width	255 mm
Bore	304.8 mm

R.W

Part	Description
Dia.	305 mm
Width	255 mm
Bore	177.8 mm

Motor

Part	Description
G.W Dresser (Traverse)	AC Servo 0.4 kW
G.W Dresser (Feed)	AC Servo 0.4 kW
G/W Drive	1.5 kW 4P
R/W Drive	1.5 kW 4P
R/W Table	AC Servo 2.0 kW





Centerless Grinding Machine SGC 500

Specifications	
Part	Description
Grinding Type	Centerless Through Feed (or Infeed)
Workpiece Mounting	Workrest Support
Machining Dia. Range	10 to 150
Max. Machining Length	Max 500 mm
LOADING	Through Feeding (or Infeed)
DRESS Type	Traverse Type Point (Multi) Dia' Dresser
Hydraulic TANK Capacity	80 Liter
Outer Dimension	3500 × 2500 × 1800 H (mm)
Weight	11 Ton
G.W	
Part	Description
Dia.	610 mm
Width	510 mm
Bore	304.8 mm
R.W	
Part	Description
Dia.	380 mm
Width	510 mm
Bore	254 mm
Motor	
Part	Description
G.W Drive	45(37) kW 4P AC Motor
R.W Drive	3.7 kW 4P (Gear Reducer Type)
Oil Pressure	0.1 kW
G/W SLIDE FEED	3.5 kW AC Servo
R/W SLIDE FEED	0.75 kW AC Servo
G.W Dresser (Traverse)	0.75 kW AC Servo
G.W Dresser (Feed)	0.75 kW AC Servo
R.W Dresser (Traverse)	0.75 kW AC Servo





Centerless Grinding Machine

SGC 300

Specifications

Part	Description
Grinding Type	Centerless Through Feed or Infeed
Workpiece Mounting	Workrest Support
Machining Dia. Range	4 to 120
Max. Machining Length	Max 300 mm
LOADING	Through Feeding or Infeed
DRESS Type	Traverse Type Point Diamond Dresser
Hydraulic TANK Capacity	60 Liter
Outer Dimension	2500 × 2000 × 1700 H (mm)
Weight	5.5 Ton

G.W

Part	Description
Dia.	610 mm
Width	305 mm
Bore	304.8 mm

R.W

Part	Description
Dia.	330 mm
Width	305 mm
Bore	203.2 mm

Motor

Part	Description
R.W Table	AC Servo 3.5 kW
G.W Drive	22 kW 4P AC Motor
R.W Drive	2.2 kW 4P (Gear Reducer Type)
Hydraulic	1.5 kW 4P AC Motor
G.W Dresser (Traverse)	AC Servo 0.75 kW
G.W Dresser (Feed)	AC Servo 0.75 kW





Centerless Grinding Machine

SGC 500C

Specifications

I air	Description
Grinding Type	Centerless Through Feed (or Infeed)
Workpiece Mounting	Workrest Support
Machining Dia. Range	10 to 150
Max. Machining Length	Max 500 mm
LOADING	Through Feeding (or Infeed)
DRESS Type	Traverse Type Point (Multi) Dia' Dresser
Hydraulic TANK Capacity	80 Liter
Outer Dimension	3500 × 2500 × 1800 H (mm)
Weight	11 Ton
G.W	
Part	Description
Dia.	610 mm
Width	510 mm
Bore	304.8 mm
R.W	
Part	Description
Dia.	380 mm
Width	510 mm
Bore	254 mm
Motor	
Part	Description
G.W Drive	45(37) kW 4P AC Motor
R.W Drive	5.5 kW 4P (Gear Reducer Type)
Oil Pressure	0.1 kW
G/W SLIDE FEED	3.5 kW AC Servo
R/W SLIDE FEED	0.75 kW AC Servo
G.W Dresser (Traverse)	0.75 kW AC Servo
G.W Dresser (Feed)	0.75 kW AC Servo
R.W Dresser (Traverse)	0.75 kW AC Servo







Centerless Grinding Machine SGC 500K

Specifications

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Part	Description
Grinding Type	Centerless Through Feed (or Infeed)
Workpiece Mounting	Workrest Support
Machining Dia. Range	10 to 150
Max. Machining Length	Max 500 mm
LOADING	Through Feeding (or Infeed)
DRESS Type	Traverse Type Point (Multi) Dia' Dresser
Hydraulic TANK Capacity	None
Outer Dimension	3500 × 2600 × 1800 H (mm)
Weight	11 Ton

G.W

Part	Description	
Dia. Width	610 mm	
Width	510 mm	
Bore	304.8 mm	
D W/		

Part	Description	
Dia.	380 mm	
Width	510 mm	
Boro	25.4 mm	

Bore Motor

Part	Description
R.W Table(Lower)	AC Servo 2.0 kW
R.W Table(Upper)	AC Servo 0.75 kW
G.W Drive	45 kW (37 kW) 4P AC Motor
R.W Drive	5.5 (3.7) kW 4P (Gear Reducer Type)
G.W Dresser (Feed)	AC Servo 0.75 kW
G.W Dresser (Traverse)	AC Servo 0.75 kW
R.W Dresser (Traverse)	AC Servo 0.75 kW





Super Finishing Machine

Specifications	
Part	Description
Machining Type	2 Head Type Stone Oscillating
Workpiece Mounting	Arbor (Socket Ring) + Pressure Roller
Machining Dia Rango	25 to 85 (Outer Race)
Machining Dia. Range	15 to 60 (Inner Race)
Machining Width Range	6 to 40 (over ID PHI 10)
Loader	Index Type
Oscillating Unit	LM Bearing Slide
Oscillating Stroke	0~18°/0~8 mm
Oscillating Speed	50 to 2,500 fpm
Cnindle DDM	Max 3,000 rpm (Outer Race)
Spindle RPM	Max 2,500 rpm (Inner Race)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	1100 × 1200 × 2000 H (mm)
Weight	2.0 Ton

Motor

Part	Description
Oscillation Drive	0.37 kW 2P AC Motor (R 0.8 kW Servo)
Spindle Drive	2.2 kW 2P AC Motor
Hydraulic	1.5 kW 4P AC Motor





Super Finishing Machine

SSF 80RD

Specifications

Part	Description
Machining Type	2 Head Type Stone Oscillating
Workpiece Mounting	Two Shoe + Pressure Roller
Mashining Dia Danga	O.D PHI 10 to 80 (Bore)
Machining Dia. Range	Inner Ring ID 10 to 50
Machining Width Range	8 to 40
Loader	Cassette Type
Oscillating Unit	LM Bearing Slide
Oscillating Stroke	0.5, 1.0, 1.5, 2.0, 2.5
Oscillating Speed	150 to 1800 cpm
Spindle RPM	Max 3,000 rpm (Outer Race)
Spiriale Krivi	Max 2,200 rpm (Inner Race)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	1800 × 1000 × 1800 H (mm)
Weight	2.5 Ton

Motor

Part	Description
Oscillation Drive	0.4 kW AC Servo
Spindle Drive	0.75 kW 4P AC Motor
Hydraulic	1.5 kW 4P AC Motor



Super Finishing Machine

SSF 110

Specifications

Part	Description
Machining Type	2 Head Type Stone Oscillating
Workpiece Mounting	Arbor (Socket Ring) + Pressure Roller
Machining Dia Pango	28 to 110 (Outer Ring)
Machining Dia. Range	17 to 90 (Inner Ring)
Machining Width Range	Max 50
Loader	CLAW Type 2 Direction Traverse
Oscillating Unit	LM Bearing Slide
Oscillating Stroke	10° to 35°
Oscillating Speed	60 to 500 cpm
5(500 to 5000 rpm (Outer Race)
Spindle RPM	900 to 9000 rpm (Inner Race)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	1800 × 1760 × 2200 H (mm)
Weight	3.5 Ton

Part	Description
Oscillation Drive	0.4 kW AC Motor
Spindle Drive	0.75 kW 4P AC Motor
Hydraulic	1.5 kW 4P AC Motor







Super Finishing Machine CCE 120

Specifications

Part	Description
Machining Type	Oscillating
Workpiece Mounting	Arbor (Socket Ring) / Pressure Roller & 2 Shoe
Markinia a Dia Banasa	15 to 110
Machining Dia. Range	15 to 90
Machining Width Range	6 to 65 (Cover ID PHI 10)
Loader	Cassette Type
Oscillating Unit	Air Bearing Slide
Oscillating Stroke	0.5, 1, 1.5, 2, 2.5
Oscillating Speed	300 to 2000 cpm
Cnindle DDM	Max 3000 rpm (Outer Race)
Spindle RPM	Max 2200 rpm (Inner Race)
Hydraulic TANK Capacity	40 Liter
Outer Dimension	1800 × 1000 × 1800 H (mm)
Weight	2.5 Ton

Motor

Part	Description
Oscillation Drive	0.4 kW AC Servo
Spindle Drive	1.5 kW 4P AC Motor
Hydraulic	1.5 kW 4P AC Motor



Super Finishing Machine

SLR 650(500)

Specifications

Part	Description
Machining Type	Thru-feed fully automatic
Markaiaaa Marratina	Support roll & feed roll
Workpiece Mounting	(phi 152 ×650L)
Machining Dia. Range	4.5 to 60
Machining Length Range	Max 1000
Oscillation	Air Bearing Slide
Oscillation Stroke	0.5, 1.0, 1.5, 2.0 ,2.5
Oscillation Speed	700 to 2,500 fpm
Stone Head Unit	Air cylinder Pressurizing type 6~8sets
S/H Pressure	1.0 to 4.0 kgf/cm2
Tilting Angle	±5°
Swivel Angle	± 2°
Up-Down Stroke	90 mm
Outer Dimension	1600 × 900 × 2100 H (mm)
Weight	2.5 Ton

Motor

Motor		
Part	Description	
Oscillation	0.6 kW 4P AC Motor	
Roll Drive	3.7 kW 4P AC Motor	





Super Finishing Machine

SSF 150(V)

Specifications

Description
2 Head Type Stone Oscillating
Arbor(Socket Ring) + Pressure Roller
85 to 200 (Outer Race)
70 to 150 (Inner Race)
20 to 80
CLAW Type 2 Direction Traverse
LM Bearing Slide
0~18°/0~8 mm
60 to 500 spm
Max 3,000 rpm (Outer Race)
Max 2,500 rpm (Inner Race)
20 Liter
2000 × 2300 × 2100 H (mm)
3.5 Ton

Motor

Part	Description
Oscillation Drive	1.5 kW Servo
Spindle Drive	1.5 kW 2P AC Motor
Hydraulic	1.5 kW 4P AC Motor





T/R Back Face Grinding Machine

SGRB 350(250)

pecifications

Part	Description
Machining Type	Pressing Upper Ring + Lower Ring
	Idle carrier
Machining Dia. Range	Max 25 (15)
Machining Length Range	Max 40 (30)
R Range	Max R350 (R230)
Speed Control	Differential Drive Gear
Main Spindle	100 ~ 400 rpm
Lower Spindle	100 ~ 400 rpm
Hydraulic TANK Capacity	60 Liter
Outer Dimension	1200 × 1200 × 1800 H (mm)
Weight	2.5 Ton

Part	Description
Main	11 kW 6P AC Motor
Differential	0.4 kW 4P Stepless
Hydraulic	1.5 kW 4P AC Motor







Horizontal Type Double Disc Grinding M/C

SGDH 585

Specifications

Part	Description
Grinding Type	Thru Feed (or Rotary Carrier)
Machining Dia. Range	Max 135
Machining Width Range	Max 50
Grinding Wheel	O.D 585 × 10 × 75 W
Wheel Speed	Max 900 rpm
Carrier Size	Max 1,050
Carrier Speed	0.5 ~ 3 rpm
Space between L/R Wheels	130
Dresser	Swing Arm type Point Dresser
Outer Dimension	3000 × 2800 × 1750 H (mm)
Weight	7.5 Ton

Motor

Part	Description
G.W Motor	22 kW 4P
Carrier	0.75 kW 4P
Dresser	0.1 kW 4P (Speed Control)
G. W Feed	0.5 kW AC Servo



Vertical Type Double Disc Grinding M/C

SGDV 360

Specifications

Part	Description
Grinding Type	IN-FEED
Machining Dia. Range	Max 50
Machining Width Range	Max 40
Grinding Wheel	O.D 355(305) × 205 × 50T(CBN:3T)
Wheel Speed	Max 1800rpm (INVERTER C.W/C.C.W)
Loading	Swing Arm
Space between UP/Dn Wheel	100
Dresser	Rotary Dresser
Outer Dimension	1500 × 1800 × 2500 H (mm)
Weight	4.5 Ton

Motor

Wotor	
Part	Description
G.W Motor	7.5 kW 4P × 2 SETS
R/D Rotating	0.9 kW Speed Variable
Index Carrier	1.0 kW AC Servo
Work Drive	0.4 kW AC Servo × 2 SETS
G. W Feed	0.4 kW AC Servo × 2 SETS
Loading	0.5 kW AC Servo





Horizontal Type Double Disc Grinding M/C

SGDH 760

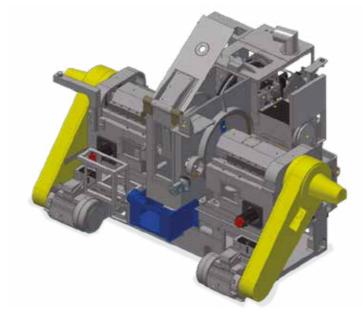
Specifications

Part	Description
Grinding Type	Rotary Carrier or Thru Feed
Machining Dia. Range	Max 180
Machining Width Range	Max 70
Grinding Wheel	O.D 760 × 80 × 270
Wheel Speed	Max 700 rpm
Carrier Size	Max 1,050
Carrier Speed	0.5 ~ 3 rpm
Space between L/R Wheels	130
Dresser	Swing Arm type Point Dresser
Outer Dimension	3000 × 4000 × 1850 H (mm)
Weight	12 Ton

Motor

Part	Description
G.W Motor	30 kW 4P
Carrier	0.75 kW 4P
Dresser	0.1 kW 4P (Speed Control)
G. W Feed	1.0 kW AC Servo
G.W Cover	0.1 kW 4P





Vertical Type Double Disc Grinding M/C

SGDV 510

Specifications

Description
Thru feed (Carrier)
Max 60
Max 15
$0.D 510 \times 205 \times 50 T$
Max 1040 rpm (INVERTER C.W/C.C.W)
Carrier (O.D 670)
4000 rpm
70
Swing Arm Type Point Dresser
1555 × 1625 × 2200 H (mm)
7.5 Ton

Part	Description
G.W Motor	11 kW 4P × 2 SETS
R/D Rotating	0.9 kW Speed Variable
Index Carrier	1.0 kW AC Servo
G. W Feed	0.4 kW AC Servo × 2 SETS







Vertical Type Double Disc Grinding M/C

SGDV 585

Specifications

Part	Description
Grinding Type	Rotary Carrier
Machining Dia. Range	Max 135
Machining Width Range	Max 50
Grinding Wheel	O.D 585 × 75 × 195
Wheel Speed	300 ~ 900 rpm
Carrier Size	O.D 820
Carrier Speed	0 ~ 10 rpm (0 ~ 28.3m/min)
Space between UP/Dn Wheel	80
Dresser	Swing Arm type Point Dresser
Hydraulic TANK Capacity	60 Liter
Outer Dimension	3500 × 2400 × 2990 H (mm)
Weight	8.5 Ton

Motor

Part	Description
G.W Motor	22 kW 4P
Carrier	Hydraulic Motor
G. W Feed	2.0 kW AC Servo
Hydraulic	None





Vertical Type Double Disc Grinding M/C SGDV 760

Specifications

Part	Description
Grinding Type	Rotary Carrier
Machining Dia. Range	Max 150 PHI
Machining Width Range	15 to 50
Grinding Wheel	$0.D750 \times 75 \times 300$
Wheel Speed	300 to 700 rpm
Carrier Size	1020 PHI
Carrier Speed	0 ~ 10 rpm (0 ~ 28.3m/min)
Space between UP/Dn Wheel	80
Dresser	Swing Arm type Point Dresser
Hydraulic TANK Capacity	40 Liters
Outer Dimension	3200 × 3500 × 4200 H (mm)
Weight	15 Tons

Motor

Part	Description
G.W Motor	37 kW 4P AC Motor
Carrier	1.5 kW AC Servo
G. W Feed	2.0 kW AC Servo
Hydraulic	1.5 kW 4P AC Motor



Vertical Type Double Disc Grinding M/C

SGDV 585i

Specifications

Part	Description
Grinding Type	Rotary Carrier
Machining Dia. Range	30 to 100 PHI
Machining Width Range	15 to 50
Grinding Wheel	O.D 585 × 75 × 195
Wheel Speed	300 to 1000 rpm
Carrier Size	OD 840
Carrier Speed	0 ~ 10 rpm (0 ~28.3m/min)
Space between UP/Dn Wheel	80
Dresser	Swing Arm type Point Dresser
Hydraulic TANK Capacity	None
Outer Dimension	2600 × 2200 × 3200 H (mm)
Weight	8.5 Ton

Motor

Part	Description	
G.W Motor	22 kW 4P AC Motor	
Carrier	0.85 AC Servo	
G. W Feed	2.0 kW AC Servo	
Hydraulic	None	





Screw Grinding Machine

SGS 1000

Specifications

Part	Description
Machining Type	Plunge
Workpiece Mounting	Center (BRG. Housing support)
Machining Dia. Range	Max 350
Machining Length Range	Max 950 (G/W Thickness. 50mm)
Distance between length	Max 1,150
Machining OD Pitch	0 to 360
Loading	Manual
Dress	2-axis Point (rotary) Diamond Dresser
G/W Tilting	± 40 °
Diameter of G/W	O.D Φ500 I.D Φ203 (Max 50W)
Work spindle speed	0.2 to 100 rpm
Dress Feed Slide Stroke	80 mm
Outer Dimension	6000 × 3100 × 2000 H (mm)
Weight	9.5 Ton

Part	Description
Work Slide	AC Servo 2.0 kW
G.W Table	AC Servo 1.5 kW
Work Spindle	AC Servo 3.5 kW
Dress Feed	AC Servo 0.5 kW
Dress Traverse	AC Servo 0.5 kW
G/W Tilting	AC Servo 0.5 kW
G.W Drive	7.5 kW 2P AC Motor







Window Cage Grinding Machine **SGCW 100**

Part	Description
Machining Type	Plunge
Workpiece Mounting	WIDTH CLAMP (PNEU')
Machining Dia. Range	PHI 43~100
Machining Length Range	Max 55
Work Slide Stroke	60
G/W Slide Stroke	70
Loading	Gantry Type
Dresser	Rotary Dresser on the Work Spindle
Outer Dimension	2200 × 2100 × 1900 H (mm)
Weight	4.5 TON

Motor

Part	Description
Work Slide	AC Servo 2.0 kW
Work spindle	AC Servo 1.5 kW
G/W Spindle (R)	AC Servo 3.5 kW
G/W Spindle (L)	AC Servo 0.5 kW
Loading	AC Servo 0.5 kW





Hydraulic Single Spindle Turning M/C

SLB 80(120)

Part	Description
Machining Dia. Range	Max 60 (90)
Machining Width Range	Max 40
Center Height	F.L 1,010 mm
Control	PLC
Hydraulic Chuck Size	6",8", 9" (Collet or Mandrel)
Spindle Dia.	80 (120)
Slide	#1, #2
Work Spindle Speed	Max 2,000 rpm
Slide Size	250 W
Outer Dimension	1200 × 2200 × 1700 H (mm)
Weight	3 Ton

Motor

Part	Description
W.H	7.5 kW 8P
HYD	2.2 kW 4P



C.V.J Inner Ring Ball Track Grinder

SGBT 100

Part	Description
Machining Type	2 Head Arc
Workpiece Mounting	Hydraulic
Machining Dia. Range	Max 80 (Min 50)
C //// (Cranad)	Max 200 Phi
G/W (Speed)	H.F SPINDLE 8,000 rpm/17 kW × 2 SETS
Center Height	Max 1,150
Index	6 HYD' Index (8 Servo)
Loading	Gantry or Robot
DRESS	Rotary Form Dresser (phi 125)
DRESS Speed	Max 3,000 rpm
Work Slide Stroke	350 mm
G/W Slide Stroke	475 mm
Outer Dimension	2700 × 1900 × 2200 H (mm)
Weight	6.5 Ton

Motor

Part	Description
Work Slide	AC Servo 2.4 kW × 2 HEAD
G.W Table	AC Servo 2.4 kW × 2 HEAD (Brake)
Loader	AC Servo 1.0 × 2 HEAD
Dress Feed	Installed by Work Slide
Dress Rotate	0.75 kW 2P AC Motor
HYD	3.7 kW 4P AC Motor
LUB	0.7 kW Willy Vogel







CNC Single Spindle Turning M/C

SLB 80(120)CNC

Part	Description
Machining Dia. Range	Max 60 (90)
Machining Width Range	Max 40
Center Height	F.L 1,010 mm
Control	CNC (Mitsubishi, Fanuc)
Hydraulic Chuck Size	6",8", 9" (Collet or Mandrel)
Spindle Dia.	80 (120)
Slide	#1 or #2
Work Spindle Speed	Max 2,000 rpm
Slide Size	300 W
Outer Dimension	1200 × 2000 × 1700 H (mm)
Weight	3 Ton

Part	Description
W.H	11 kW 6P
HYD	2.2 kW 4P





AutomationSystem

- Eddy Current Crack Testing M/C
- Post Process Gauge M/C
- Automatic Assembly M/C
- Ultrasonic Washing M/C
- Workpiece Inspection M/C

- Combining M/C
- Cage Assembly M/C
- Demagnetizing M/C
- Conservation Oil & Visual Inspection M/C
- Radial Clearance Inspection M/C

- Noise & Vibration Tester M/C
- Centrifugal Drying M/C
- Laser Marking M/C
- Greasing & Shielding M/C
- Auto Conveyor Loading System & Line System
- Cup Type Washing + Drying + Sensitivity Checking







High Precision **Spindles**

Developing high precision and high frequency spindle is not possible without the highest quality bearings. ORSKOREA applies unique mechanisms and the highest quality bearings to manufacture our high frequency spindles. Our spindles reach speed up to 120,000 rpm. We are proud to say that this is the Highest Speed Spindle that is manufactured in Korea.

Belt design precision spindles and high frequency spindles can operate at high speed and different speed settings. ORS BEARINGS, with over 30 years of experience in the bearing industry, has combined with ORSKOREA'S experience of machine and spindle manufacturing for nearly 3 decades. We guarantee you the high-quality grinding machines and spindles.





ORSKOREA's Spindles

ORSKOREA is the best choice for spindles.

01 / High Speed

ORSKOREA leads the spindles manufacturing technology in Korea. Our high frequency spindles reach speed up to 120,000 rpm, which is the highest speed spindle manufactured in Korea.

03 / High Stiffness

In order to ensure the highest output and durability, ORSKOREA uses hybrid ceramic angular bearings from German. We always provide our clients with the highest DMN standard products.

05 / Balancing

To reduce vibration, ORSKOREA engineered and built our spindles with VPT (Vibration Prevention Technology) to prevent unbalancing. This process is done by Static and Dynamic Balancing.

07 / Patents

ORSKOREA is a holder of a diverse spindle patent portfolio. We currently have five patents for high-frequency motor spindles and apply them to our products every year.

09 / Customization

Our comprehensive design and manufacturing capabilities can accommodate different needs of our clients. Our product scope of spindles ranges from 10,000 rpm to 120,000 rpm.

02 / Technological Partnership

We are the only company in Korea that has a technological partnership with ORS Inc. by combining the know-hows of machine and spindle manufacturing with precision bearing manufacturing and production. We understand the machine operators and engineers needs and seek for better solution for them.

04 / Precision Bearing

We use ultra-precision bearings (ISOP2) for our spindles. For top quality spindles this is the industry standard which ORSKOREA abides.

06 / Quality Parts

ORSKOREA's spindles are manufactured with the highest quality parts. This allows our spindles to operate at the highest level of accuracy and precision.

08 / Originality

Applying extensive innovative ideas came from our extensive experience in spindles manufacturing, we continuously invest in research and development to expand our knowledge.

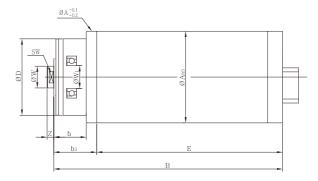
10 / Reliable Partner

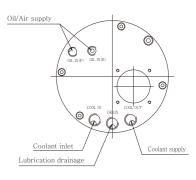
ORSKOREA is a reliable partner. From Built-in (HF) motor spindles, Hydro-Static/ Dynamic spindles to Belt-Driven spindles and more. ORSKOREA will always provide you the best spindle solution.





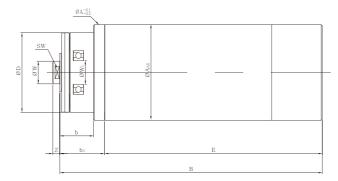
High Frequency Spindle Model: SHS

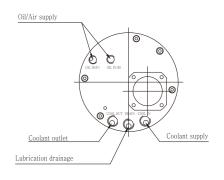




Model	COFFE	POWER SPECIFICATIONS							DIMENSION										
	SPEED MAX.	Torque		S6-60% peed		je at freq between											Without flange		
	Nmax	Ms6	Ps6	n	٧	fk	f max	A	p	6	D	w	W1	7	SW	b1	E		
	[RPM]	[NM]	[kW]	[RPM]	[V]	[Hz]	[Hz]	^	, B	D	D	VV	W I	2	344	l bi	-		
SHS150-018/17	18000	14.8	17	11000	350/(220)	367	600	130	380.5	63.5	150	63.5	65	16	55	80.5	280		
SHS150-030/16	30000	8.5	16	18000	350/(220)	600	1000	150	378.5	61.5	130	53	55	14	48	78.5	280		
SHS150-030/23	30000	12.2	23	18000	350/(220)	600	1000	150	378.5	61.5	130	53	55	14	48	78.5	280		
SHS120-042/12.5	42000	4.0	12.5	30000	350/(220)	1200	1400	120	314	51	100	38.5	40	11	32	65	229		
SHS120-051/12.5	51000	4.0	12.5	30000	350/(220)	1200	1700	120	306.5	43.5	100	28.5	30	9	24	57.5	229		
SHS120-060/7	60000	1.1	7	60000	350/(220)	10	000	120	262	38	90	23.5	25	9	20	52	190		
SHS100-075/5	75000	0.6	5	75000	350/(220)	12	250	100	227	38	80	18.5	20	8	16	52	155		
SHS100-090/3	90000	0.3	3	90000	350/(220)	15	500	100	242.5	36.5	80	18.5	20	8	16	48.5	154.5		

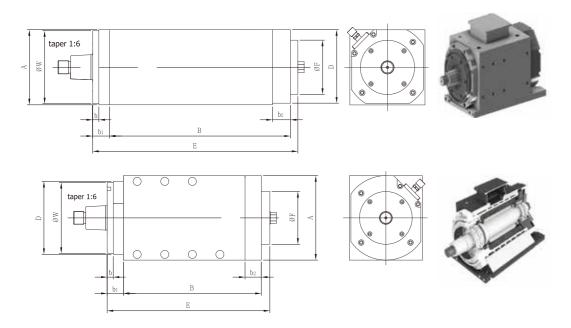
High Frequency Spindle Model: SHX(New Model)





Model	60550		PC	OWER SPE	CIFICATION	NS .		DIMENSION										
	SPEED MAX.	Torque	Output S6-60% at speed		Voltage at frequency between													
	[RPM]	[NM]	[kW]	[RPM]	[V]	[Hz]					VV	VVI	2	SW	DI	•		
SHX150-030/9	30000	2.7	9	30000	350/(220)	500	1000	150	341.5	47.5	100	33.5	35	9.3	30	61.5	235	
SHX120-030/11.5	3000	4.6	11.5	24000	350/(220)	800	1000	120	388.5	55	119.8	53.5	55	14	48	70.5	253	
SHX120-045/18	45000	5.7	18	30000	350/(220)	1000	1500	120	370	54.5	120	43	45	12.5	38	70	235	
SHX120-060/12	60000	2.2	12	51000	350/(220)	850	1000	120	337.5	43.5	100	28.5	30	9	24	57.5	215	
SHX120-075/7	75000	0.9	7	75000	350/(220)	12	250	120	300	38	90	23.5	25	9	20	52	183	
SHX120-090/3	90000	0.3	3	90000	350/(220)	15	500	120	324.5	27.5	70	16	17	6.5	14	42.5	14.5	
SHX100-105/2	105000	0.2	2	105000	350/(220)	17	750	100	201.5	23.5	80	16	17	6	14	31.5	145	
SHX100-120/1.2	120000	0.1	1.2	120000	350/(220)	20	000	100	191.5	23.5	80	11	12	6	8	31.5	135	

Built in Motor Spindles



	SPEED MAX.		POWE	R SPECIFIC <i>i</i>	ATIONS						IMENICIO	N						
Model	SPEED MAX.	Torque			Voltage at	frequency			DIMENSION									
Model	N max	Ms6	Ps6	n	V	f max								-	l w			
	[RPM]	[NM]	[kW]	[RPM]	[V]	[Hz]												
SRG500-2X	2000	20.7		2000	250//220)	1200	180	434	15	40	43	176	492	130	175			
SRG500-2YZ	2000	2000 38.2 8 2000 350/(220) 1200 -	208	340	15	40	40	180	401	130	175							

Hydro-Static / Dynamic Spindles

- Designing and manufacturing Hydro Dynamic / Static Grinding Spindles.
- Repairing and/or modifying Hydro-Dynamic / Static Spindles of the leading brands. This includes TOYO, KOYO, ISMUI, OKUMA, LIDKOPING and many more for the domestic market.
- ORSKOREA is the holders of patents on Air-Floating High-Frequency Spindle. (A joint ownership with Schaeffler Korea)
- OEM/ODM partnership with machine manufacturers.

Rolling Bearing Type Spindles

- Repairing and manufacturing all types of high-end spindles.
- Designing and manufacturing of centerless grinding spindles equipped with high-precision bearings.
- Repairing and refurbishing various types of machine and high-precision spindles.
- Designing and developing customized spindles.
- OEM/ODM partnership with machine manufactures.







Repair Service

Check & Disassemble

- Check for internal and external damages that occurred from use
- Disassembly each step is photographed and analyzed in detail
- Each part is inspected and analyzed to determine if a replacement is needed or if it can be repaired
- Quotation will be provided for the client's approval



Repair Service

- Cleaning the disassembled parts (by hand with ultrasonic wave and anti-rust chemicals)
- Purchasing of parts (bearings and/or other necessary parts)
- Refurbishing and/or other required process
- Design and manufacture damaged parts (Done by qualified ORSKOREA's members from design and manufacturing team)
- Balancing of the parts including the shaft (balancing grade 1G or below based on ISO standard)
- Equipment used in the process: SCHENCK & SHIMATSU B.M brands
- Assembly and inspection (bearing is assembled according to appropriate preload level)



Precision Test & Trial

- Accuracy test and test run are performed before delivery
- Static precision test (run-out check)
- No-load test (minimum of 6 hours)
- Test run (check for bearings noise level and vibration using German SCHENCK equipment)
- Additional processing if balancing operation is needed
- Test run report will be provided including all data and work history
- Anti-rust control and air sealed packaging for delivery















Service and Support

After-sales & Service

After-sales service is considered with utmost importance and priority. Immediate attention is therefore given to all requests for service and spare parts. With our network of logistics partners located all around the globe, the parts will be delivered in the shortest time possible. If service is needed, our service engineers are sent out on request to operating sites around the globe. All inquiries will be responded within 24 hours and a schedule will be made for needed service.





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