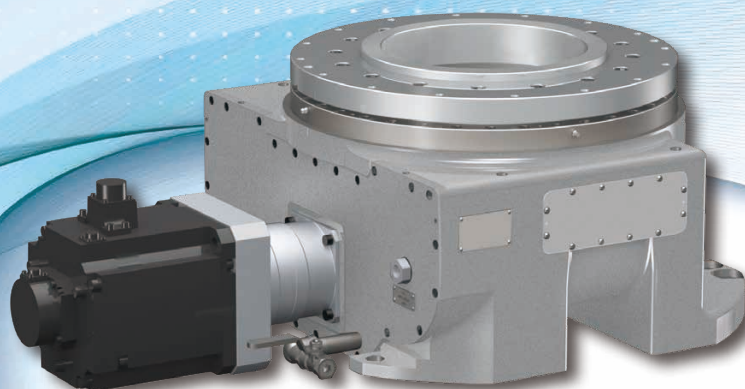


HorizonDrive SH500A



- ▶ Large hollow bore output and wiring space for simplified piping and wiring
- ▶ Proprietary rolling reducer mechanism for high-efficiency driving
- ▶ Orthogonal axis with no need to remove the jig when replacing the motor
- ▶ Ability to mount commercially available servo motors
- ▶ Ideal for spot welding of heavy work

Technical drawing of the R3000 series servo motor, showing front, side, and detail views with dimensions and labels.

Front View Dimensions:

- Overall width: 535
- Mounting base width: 300
- Flange outer diameter: $\phi 490$
- Flange inner diameter: $\phi 470$
- Output table diameter: $\phi 300_{-0.052}$
- Shaft diameter: $\phi 250$
- Shaft length: 50
- Flange thickness: 10
- Output table thickness: 10
- Mounting base thickness: 10
- Flange mounting holes: (4) $\phi 22$ THRU
- Oil fill: 2 $\times$ Rc3/4
- Grease zerk: (4) Grease zerk
- Drain: Rc1/2
- Ball valve
- Origin alignment mark
- Oil gauge
- Drain Rc1/2 Ball valve
- Mounting base

Side View Dimensions:

- Overall height: 570
- Flange height: 156
- Output table height: 110
- Mounting base height: 110
- Flange mounting holes: (4) $\phi 22$ THRU
- Oil fill: 2 $\times$ Rc3/4
- Grease zerk: (4) Grease zerk
- Drain: Rc1/2
- Ball valve
- Origin alignment mark
- Oil gauge
- Drain Rc1/2 Ball valve
- Mounting base

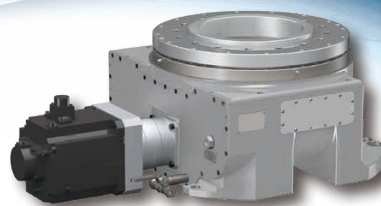
Detail View Dimensions:

- Flange outer diameter: $\phi 447$
- Flange inner diameter: $\phi 425$
- Flange thickness: 10
- Output table thickness: 10
- Mounting base thickness: 10
- Flange mounting holes: (4) $\phi 22$ THRU
- Oil fill: 2 $\times$ Rc3/4
- Grease zerk: (4) Grease zerk
- Drain: Rc1/2
- Ball valve
- Origin alignment mark
- Oil gauge
- Drain Rc1/2 Ball valve
- Mounting base



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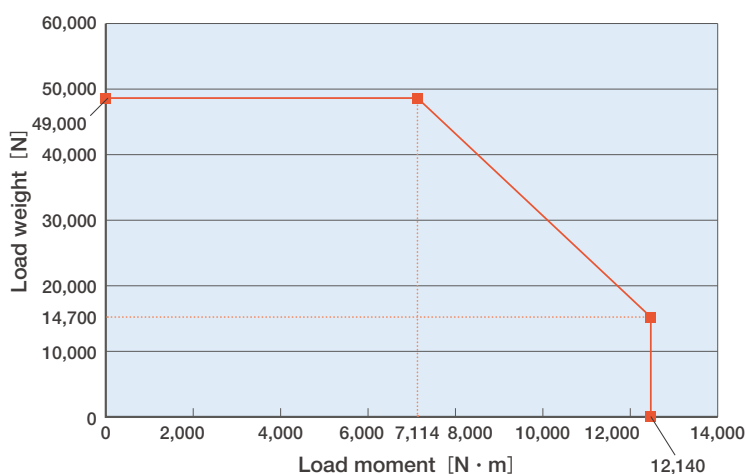
HorizonDrive SH500A



Product Specifications

Model		SH500A
Output table diameter	mm	Φ 470
Output hollow diameter	mm	Φ 170
Allowable payload [Allowable thrust]	kg [N]	5,000 [49,000]
Allowable moment load	N · m	12,140
Gear ratio		168.75
Maximum rotational frequency [Allowable output rotational frequency]	min ⁻¹	20 (120° /sec)
Rated output rotational frequency	min ⁻¹	15
Repeatability	mm	± 0.075 (R = 500mm)
Rated torque	N · m	4,820
Maximum allowable instantaneous torque	N · m	15,810
Allowable start/stop torque	N · m	7,900
Internal moment of inertia at the input shaft	kg · m ²	6.51×10^{-4}
Recommended motor capacity	kW	5
Paint color		Silver
Product weight	kg	380
Rated lifetime	h	6,000

Allowable Moment Diagram



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