

# **IB Series P1 Type**

- Most compact in the industry
- 38% of our models have been downsized
- Motor capacity range expanded 50w-5000w
- Reduction ratio range expanded 1/5, 1/9, 1/15, 1/21, 1/33,1/45, 1/81
- Compatible with newest servo motors!

#### **Features**

- High torque transmission capacity, leading the industry
- Low backlash: 15 min
- Very quiet
- High efficiency: 90% and greater
- All listed reduction ratios are the actual ratios
- Input speeds up to 6000r/min
- Compatible with major servo motor flanges
- Flange output type available



Flange Shaft Type

## **Applications**

- Transfer robots
- Peripheral equipment for robots
- Factory automation
- Semiconductor production machine
- Machine tool
- Loader drive and shaft motion
- Wrapping machines (bag making and pillow wrapping)
- Wood-processing machine
- Medical equipment
- Monitoring camera
- Vending machine
- Analyzing machine
- Measuring equipment



Compact housing with integrated internal gears.

### Wide variety

Three variations available to match customers' needs.



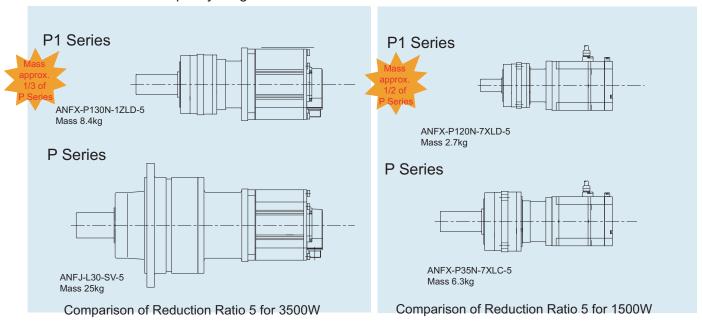




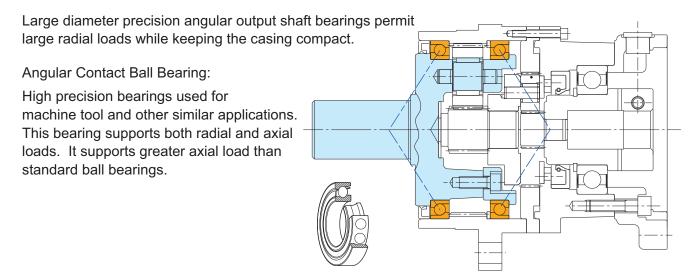
## **Sumitomo** Drive Technologies

#### Most compact in the Industry

Significantly smaller size and less mass than the comparable P Series models in the low reduction ratios and medium capacity range.



## High Moment Capacity: New Large Diameter Angular Bearing



## Assembly

Easy assembly. Connect servo motor and reducer directly with bolt (provided by customer). Tighten motor shaft with hexagon wrench. The unit is ready for immediate use.





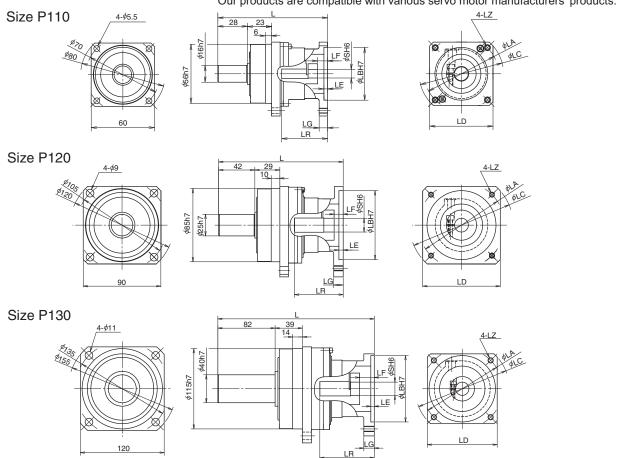


## **Specifications**

Model	Ratio	0000	Allowable torque					*1: Typical value	
			max. acceleration or deceleration torque [Nm]	Peak torque for emergency stop [Nm]	Allowable max. input speed [r/min]	Backlash [arc-min]	Radial load at input speed 2000r/min [N]	Moment of inertia equivalent on input shaft [kgmf] *1	Weight [kg] *1
P110	5	10.5	45	60	6000	15	350	0.116 x 10 <sup>-4</sup>	0.0
	9	11.5	35				425	0.098 x 10 <sup>-4</sup>	0.9
	15	15.5	45				505	0.137 x 10 <sup>-4</sup>	1.1
	21	17.5	45				565	0.107 x 10 <sup>-4</sup>	
	33	19.0	45				655	0.092 x 10 <sup>-4</sup>	
	45	22.0	45				730	0.092 x 10 <sup>-4</sup>	
	81	11.5	35				890	0.092 x 10 <sup>-4</sup>	
P120	5	44.5	190	250			1075	0.653 x 10 <sup>-4</sup>	2.4
	9	42.5	140				1310	0.504 x 10 <sup>-4</sup>	
	15	46.5	190				1550	0.483 x 10 <sup>-4</sup>	2.8
	21	49.5	190				1735	0.432 x 10 <sup>-4</sup>	
	33	40.0	135				2020	0.403 x 10 <sup>-4</sup>	
	45	54.5	190				2240	0.401 x 10 <sup>-4</sup>	
	81	43.5	140				2725	0.406 x 10 <sup>-4</sup>	
P130	5	86.5	380	500	5000		1440	2.823 x 10 <sup>-4</sup>	6.7
	9	97.5	330				1750	1.820 x 10 <sup>-4</sup>	
	15	90.0	380				2075	1.822 x 10 <sup>-4</sup>	7.0
	21	96.0	380				2325	1.533 x 10 <sup>-4</sup>	
	33	82.0	370				2705	1.282 x 10 <sup>-4</sup>	
	45	112	380				3000	1.271 x 10 <sup>-4</sup>	
	81	101	330				3645	1.263 x 10 <sup>-4</sup>	

Dimensions (Solid Output Shaft) Consult Sumitomo for more details.

Our products are compatible with various servo motor manufacturers' products.



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