

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.



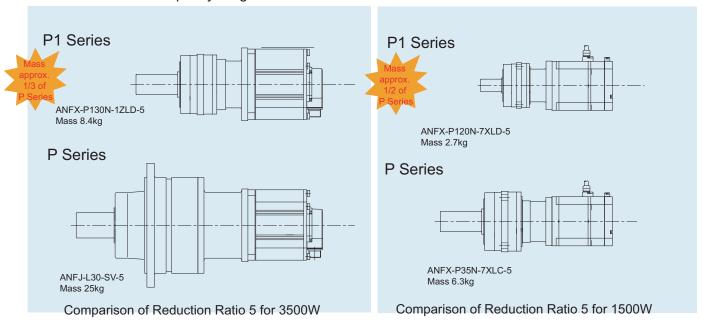




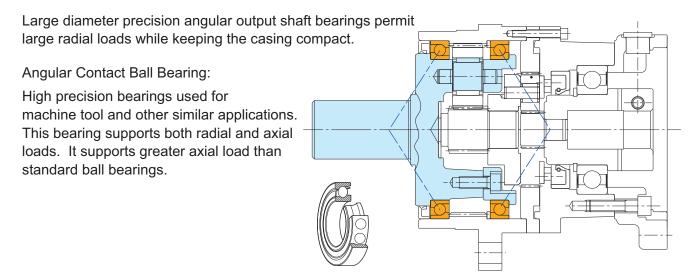
Sumitomo Drive Technologies

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.

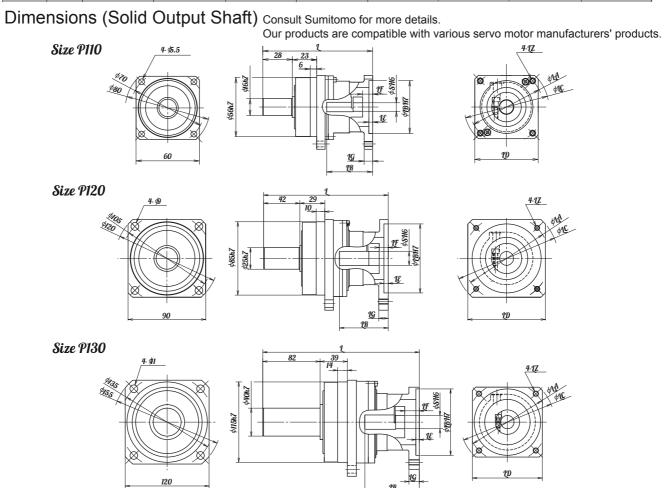






Specifications

Model	Ratio	Rated torque at input speed 3000r/min [Nm]	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 [kgnt ²] *1	Weight [kg] *1
P110	5	10.5	45	60	- 6000	15	350	0.116 x 10 ⁻⁴	0.9
	9	11.5	35				425	0.098 x 10 ⁻⁴	
	15	15.5	45				505	0.137 x 10 -4	1.1
	21	17.5	45				565	0.107 x 10 -4	
	33	19.0	45				655	0.092×10^{-4}	
	45	22.0	45				730	0.092 x 10 ⁻⁴	
	81	11.5	35				890	0.092×10^{-4}	
P120	5	44.5	190	250			1 07 5	0.653 x 10 ⁻⁴	2.4
	9	42.5	140				1 31 0	0.504×10^{-4}	
	15	46.5	190				1 550	0.483 x 10 ⁻⁴	2.8
	21	49.5	190				1735	0.432 x 10 ⁻⁴	
	33	40.0	135				2020	0.403 x 10 ⁻⁴	
	45	54.5	190				2240	0.401 x 10 ⁻⁴	
	81	43.5	140				2725	0.406 x 10 ⁻⁴	
P130	5	86.5	380	500	5000		1 440	2.823 α 10 ⁻⁴	6.7
	9	97.5	330				1750	1.820 x 10 ⁻⁴	
	15	90.0	380				2075	1.822 x 10 -4	7.0
	21	96.0	380				2325	1.533 x 10 ⁻⁴	
	33	82.0	370				2705	1.282 x 10 -4	
	45	112	380				3000	1.271 x 10 -4	
	81	1 01	330				3645	1.263 x 10 ⁻⁴	



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