

Welding positioner

RollerDrive® SP series



SANKYO
WORKS (THAILAND) CO., LTD.

\ Can I help you? / We can support as below.

Improved
efficiency & speed

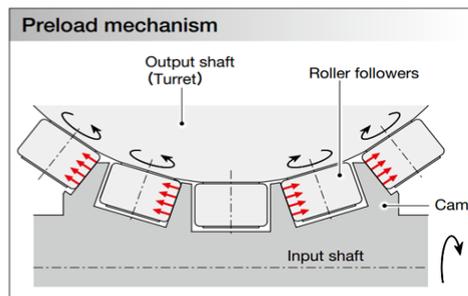
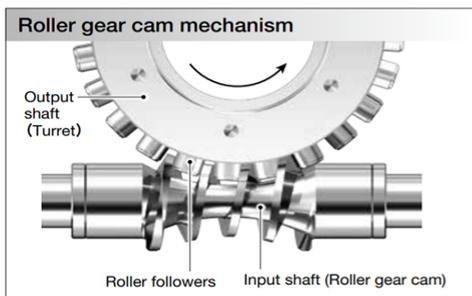
Less maintenance
No slippage & backlash

High-accuracy
High-rigidity



SP series

» Superior movement Zero-Backlash technology



» **Features**

Compact size
Large hollow shaft

High-repeatability

High-speed positioning

» **Product specifications**

Product page



SP series* : Roller gear cam mechanism

Model	SP030	SP030H	SP060	SP120	SP240	SP360
Allowable payload (kg)	300	300	600	1,200	2,400	3,600
Gear ratio	1/140	1/56	1/140	1/120	1/126	1/168
Maximum rotating speed (min ⁻¹)	30	60	30	20	20	20
Output hollow diameter (φ mm)	120	120	120	170	170	245
Body thickness (mm)	190	190	190	246	342	385
Recommended motor power (kW)	1	1	1.5	2	5.5	7.5



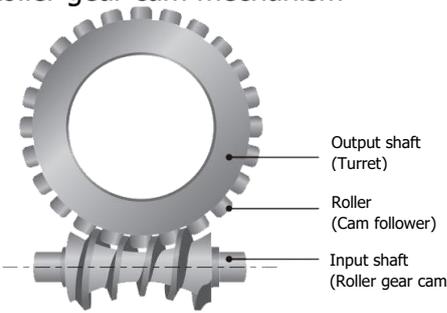
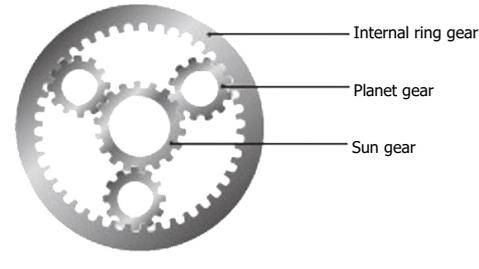
SH series* : Barrel cam mechanism

Model	SH500A
Allowable payload (kg)	5000
Gear ratio	1/168.75
Output hollow diameter (φ mm)	170
Body thickness (mm)	355
Recommended motor power (kW)	5

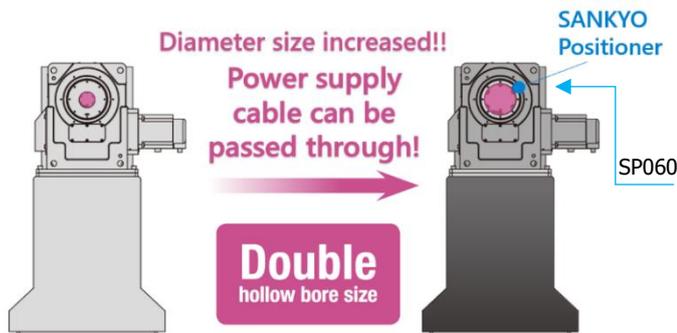
* Please check the catalog for details.

** Can be attached to any servo motor.

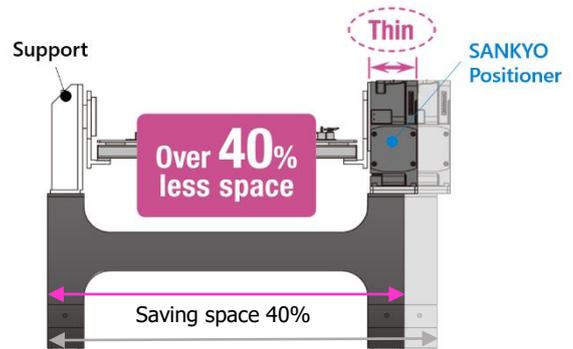
» Product comparison

	Sankyo positioner	General positioner
Structures	Roller gear cam mechanism 	Gear mechanism 
Hollow shaft (Compare the table below)	Hollow shaft, twice as large as general gear positioner, easy wiring and piping based on the hollow shaft.	Wiring and piping are not easy because of the hollow shaft size.
Size (Compare the table below)	Orthogonal axis enables miniaturize positioner size.	More space is required since motor is parallelly mounted on the input shaft.
Rigidity	Cam & roller follower structure extending machine lifetime by rolling contact, adding enough rigidity to withstand E-stop impact.	Backlash increases due to wear caused by sliding contact. It cannot withstand E-stop due to decrease in rigidity.
Rotating speed	Sankyo's zero backlash positioner enables instant & precise positioning at high speed.	Vibration is likely to occur due to backlash especially at high speed operation. Thus, instant & precise positioning is difficult.

Large hollow shaft



Thin and compact size



Example Application



Horizontal 1 axis



Cantilever 2 axis positioner



Two-side BBQ type unit



Welding system

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