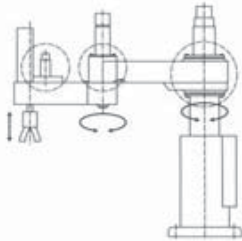
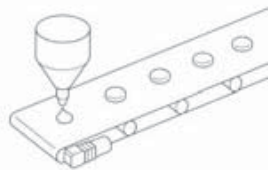


# Applications

Scara Robot



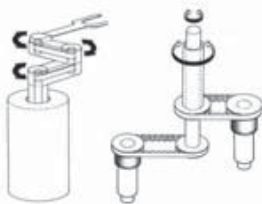
Belt Conveyor



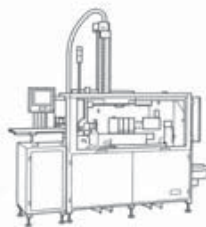
Printing Machine



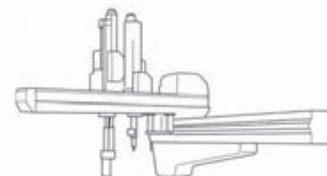
Wafer Transfer Robot



Automated Packing Machine



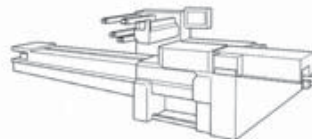
Gantry Robot



Robot(Rack&Pinion)



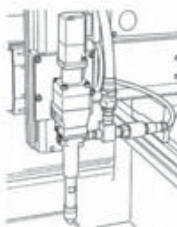
Fill Seal Machine(Horizontal Type)



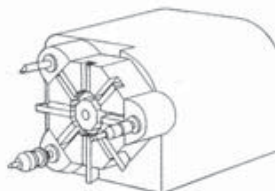
Fill Seal Machine(Vertical Type)



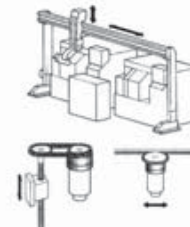
Dispenser Robot



Turret-Head



Loader Robot



- Parts Transfer Robot Systems
- Robot peripherals
- FA units
- Liquid glass return robots
- Semiconductor manufacturing devices
- Machine tools
- Loader drive shafts

- Printing Machinery
- Woodworking machinery
- Laser processing machinery
- Medical devices(CT)
- Monitoring & security cameras
- Bending Machinery
- Testing devices

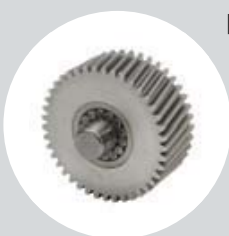
- Measuring devices
- Pallet stackers
- Conveyors
- Extrusion machinery, blow-down devices etc.
- blow-down device etc.

The precision planetary gearheads series meet most of specifications which servo applications require.



### High torque & low backlash

- ▶ Helical gear type planetary gearing
- ▶ Improvement of wear resistance by gear heat treatment



### Increased service life

- ▶ Full complement needle planet bearings. (Solid uncaged needle roller bearings)

### High stiffness & Higher radial load capacity



- ▶ One piece integral ring gear, rigid sun gear and planet carrier output shaft design.

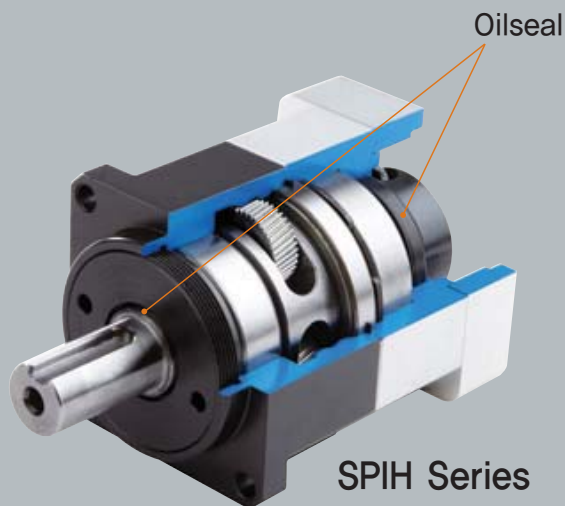
### Dynamic balanced clamp ring mechanism



- ▶ Error-free installation and the balanced clamping system allows higher input speeds and no backlash for power transmission.

### Sealed units

- ▶ Viton oilseals provided IP65 protection to prevent leaks and protect against harsh environments.



### Precision Spiral bevel gears



### SPLH Series





### Universal mounting motor flange

- ▶ Quicker deliveries and easier mounting to any servomotor.

Group	Figure	Series Name	Frame Size	* Ratio(i)	Page			
Helical Gear Type		SPIH	□42 ~ □220	1/3 ~ 1/10	08			
				1/15 ~ 1/100	09			
	In-Line		SPIH-D	□60 ~ □220	1/15 ~ 1/100	09		
						SPIFH	□42 ~ □220	1/4 ~ 1/10
		1/16 ~ 1/100	13					
			SPIFH-D	□60 ~ □220	1/16 ~ 1/100	13		
	Right Angle					SPLH	□42 ~ □220	1/3 ~ 1/20 (1/3 ~ 1/10)
		1/25 ~ 1/100 (1/15 ~ 1/100)	17					
			SPLH-D	□60 ~ □220	1/25 ~ 1/100	17		
						SPLFH	□42 ~ □220	1/4 ~ 1/20 (1/4 ~ 1/10)
1/25 ~ 1/100 (1/20 ~ 1/100)								21
	SPLFH-D	□60 ~ □220	1/25 ~ 1/100	21				

\* Ratios in parenthesis are based on □42 model

Group		Figure	Series Name	Frame Size	* Ratio (i)	Page
Spur Gear Type	In-Line		SPI	□42 ~ □115	1/3 ~ 1/10	24
					1/15 ~ 1/100	25
			SPI-D	□60 ~ □115	1/15 ~ 1/100	25
	Right Angle		SPL	□42 ~ □115	1/3 ~ 1/20 (1/3 ~ 1/10)	28
					1/25 ~ 1/100 (1/15 ~ 1/100)	29
			SPL-D	□60 ~ □115	1/25 ~ 1/100	29

\* Ratios in parenthesis are based on □42 model