

RoboPole®

PAT.
Electric Telescopic Pole



Expand the Working Range of Robotic Arms

Extension in vertical and horizontal directions

► Features

- Simple structure utilizing a patented electric screw mechanism
- Position and speed can be controlled by a servo motor
- High rigidity with minimal deflection at the tip
- Easy maintenance
- Supports a wide range of loads, from light loads (5 kg) to heavy loads (up to approximately 1500 kg).

► Applications

- Mobile robots for ceiling and wall construction (Sekisui House)
- Mobile robots for ceiling construction (Kajima Corporation)
- Mobile robots for HVAC airflow measurement in buildings (IXIS Co., Ltd.)
- Lifting systems for bridge inspection equipment (Nippon Steel)
- Lifting systems for underwater cameras in fuel pools at nuclear power plants

► Exhibition

InnoVEX2026 in TAIWAN TaiNEX2 4F

IDEF YOKOHAMA Booth No. S1013

IMTS2026 in U.S.A

Booth No.E.Build.Level3 -134175

We are currently seeking overseas distributors.

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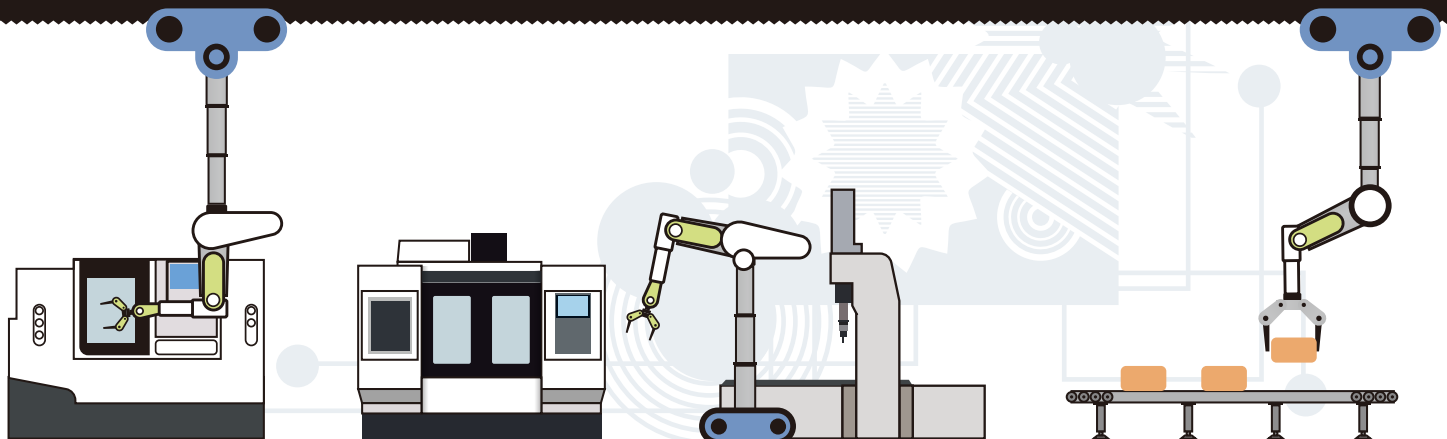
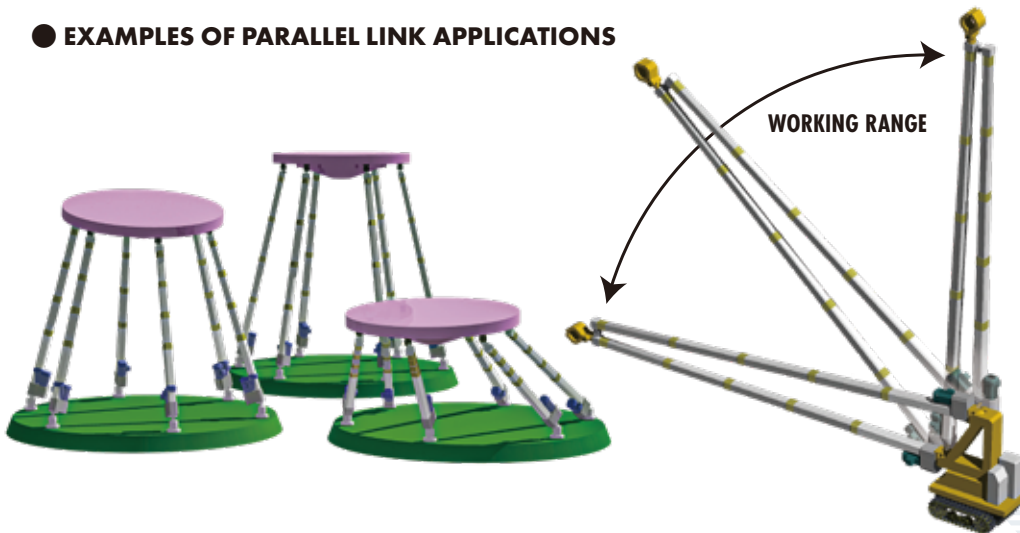
ELECTRIC DRIVE, MULTI-STAGE, TELESCOPIC POLE EXTENSION /RETRACTION LENGTH LIST

STAGES	3		4		5		6	
TOTAL LENGTH	SHORTENED LENGTH	STROKE	SHORTENED LENGTH	STROKE	SHORTENED LENGTH	STROKE	SHORTENED LENGTH	STROKE
2000	870	1130	800	1200	—	—	—	—
3000	1200	1800	1050	1950	900	2100	—	—
4000	1540	2460	1300	2700	1100	2900	—	—
5000	1870	3130	1550	3450	1300	3700	—	—
6000	2200	3800	1800	4200	1500	4500	—	—
7000	2550	4450	2050	4950	1700	5300	—	—
8000	2900	5100	2300	5700	1900	6100	1700	6300
9000	—	—	2550	6450	2100	6900	1900	7100
10000	—	—	2800	7200	2300	7700	2050	7950
12000	—	—	3300	8700	2700	9300	2400	9600
14000	—	—	—	—	3100	10900	2700	11300
15000	—	—	—	—	3300	11700	2900	12100
16000	—	—	—	—	—	—	3050	13000

(mm)

THREADED TYPE FOR ACCURATE CONTROL, DESIGNED FOR USE WITH ROBOT-RELATED APPLICATIONS.

EXAMPLES OF PARALLEL LINK APPLICATIONS



EXAMPLE APPLICATIONS

JACK-UP ELEVATION: LIGHTING, CAMERAS, ANTENNAS, ANEMOMETERS, MEASURING INSTRUMENTS, MICROPHONES, SPEAKERS, SUSPENSION ELEVATION: LIGHTING, PROJECTORS, BACKDROP PANELS, STAGE EQUIPMENT, PUSH/PULL MOVEMENT: OPENING/CLOSING GATES, MOVEMENT WITHIN PLUMBING HOLES, AUXILIARY WIRING WORK, ROBOT HAND MOVEMENT

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