

KUKA POSIFLEX

- O KPF1-MD
- o KPF1-V
- o KPF1-H
- o KPF3-V2H
- o KPF3-H2H
- SPECIAL KINEMATICS

THE POSITIONER SERIES FROM 100 TO OVER 1,000 KG



KUKA POSIFLEX O AUTOMATING PRECISION — OPTIMIZING PRODUCTIVITY

Whether it's arc welding, spot welding, laser welding, plasma welding or bonding/sealing – cost-effective joining in durable high quality demands above all maximum speed and precision. KUKA POSIFLEX meets these demands. With a highly dynamic automated multi-axis positioning system that can be combined with flexible robots to achieve optimal workpiece positioning and accessibility, and therefore also rapid process speeds.

FLEXIBLE

KUKA POSIFLEX - ALL THE ADVANTAGES AT A GLANCE:

MORE DYNAMIC: High rotational speeds and accelerations in the main and planetary axes.

MORE POWERFUL: Graduated range of models for payloads from 100 kg up to 1,000 kg and more per planetary axis.

MORE PRECISE: Very high positioning accuracy.

MORE RELIABLE: Integrated, largely protected energy supply systems.

SIMPLER: Plug & Play control via the robot controller.

MORE FLEXIBLE: Posiflex is based on standard modules which can be combined in accordance with individual requirements, resulting in a wide range of different types for the most diverse kinematics and sizes.

MORE COST-EFFECTIVE: The modular system with its small number of individual modules allows extremely attractive prices.





GREATER FREEDOM

Flexible distances between the planetary axes minimize the interference contours arising from the workpiece or the fixture.

GREATER DYNAMISM

High rotational speeds in the main and rotational axes reduce non-productive time to a minimum.

GREATER LEEWAY

Greater flexibility in the distance between the face plates makes it easier to react to individual workpiece or fixture requirements.

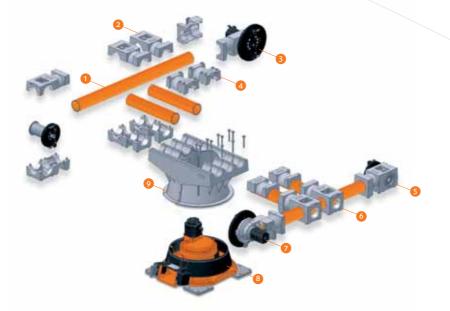


GREATER INTEGRATION

The positioner axes are controlled as external robot axes, thereby allowing mathematically coupled motion with the robot-guided tool.



Through integrated and protected energy supply systems and prepared mounts for anti-glare panels incorporated into the design.



POSIFLEX MODULAR SYSTEM

- 1 Tube
- 2 T shell
- 3 Drive mount
- 4 I shell
- 5 Counterbearing
- 6 Node
- 7 Drive unit
- 8 Robot base frame
- 9 Central support



TUBE/NODE CONNECTIONS

In the design of robotic grippers, the tube-and-node system has been the state-of-the-art for years – and not without reason. Design details such as FEM-optimized and precision-milled nodes ensure durably secure connections with an optimal interference fit, even with highly dynamic robot motions.

SPECIAL KINEMATICS

The modular elements of the POSIFLEX system allow special kinematics to be implemented without difficulty. This makes it possible to combine short delivery times and custom-tailored solutions in an ideal way, without technical compromises.

KUKA POSIFLEX O STANDARD PRODUCT LINE

(with R=500 mm) Distance between face plates mm Planetary axis, speed °/s Planetary axis, Planetary axis, Repeatability Main axis, speed °/s Main axis, payload kg

KPF1-MD O Modular drive unit



up to 250	132	± 190°	-	-	± 0,1	_
250-500	132	± 190°	_	-	± 0,1	-
500-750	114	± 190°	_	-	± 0,1	-
750-1,000	108	± 190°	_	-	± 0,1	-

KPF1-V O Turntable



200	132	± 190°	_	-	± 0,1	-
400	132	± 190°	_	-	± 0,1	-
700	108	± 190°	_	-	± 0,1	-

КРF1-H ○ Turnover positioner



up to 250	132	± 190°	_	_	± 0,1	1,000-3,000
250-500	132	± 190°	_	_	± 0,1	1,000-3,000
500-750	114	± 190°	-	-	± 0,1	1,000-3,000
750-1,000	108	± 190°	-	-	± 0,1	1,000-3,000

KPF3-V2H O Dual turnover positioner, vertical



up to 250	88,5	± 180°	132	± 190°	± 0,1	1,500-2,600
250-500	81	± 180°	132	± 190°	± 0,1	1,500-2,000
500-750	75	± 180°	114	± 190°	± 0,1	1,600-2,800
750-1,000	60	± 180°	108	± 190°	± 0,1	1,600-2,800

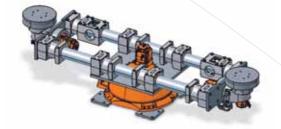
KPF3-H2H O Dual turnover positioner, horizontal



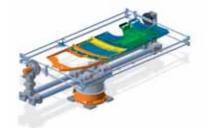
up to 250	126	± 180°	132	± 190°	± 0,1	800-3,000
250-500	90	± 180°	132	± 190°	± 0,1	800-3,000
500-750	75	± 180°	114	± 190°	± 0,1	800-3,000
750-1,000	71	± 180°	108	± 190°	± 0,1	800-3,000

OPTIONS

- Application-specific energy supply system (air, control / parameter cable, ground, water)
- Insulation of the face plates
- Mounting strips for fixtures
- O Signal transmission by bus cable (Interbus, CAN bus, Profibus)
- Oconnecting cables between positioner and robot controller 7 m, optionally 15 m, 25 m
- O Planetary axis with integrated routing of energy supply system EC Machinery Directive 89/392/EEC, EC Low Voltage Directive 73/23/EEC, EC EMC Directive 89/336/EEC









Worldwide addresses and contacts.

info@kuka.be

KUKA AUTOMATISERING + ROBOTS N.V. Centrum Zuid 1031 3530 Houthalen . Belgium P +32 11 516160 F +32 11 526794

Fö út 140 2335 Taksony . Hungary P +36 24 501609 F +36 24 477031

ROBOTAR AB A. Odhners gata 15 42130 Västra Frölunda . Sweden

KUKA ROBOTER ITALIA S.P.A. Building Center Leonardo da Vinci Via Pavia 9/a - int. 6 10098 Rivoli (TO). Italy P +39 011 9595 013 r.a. F +39 011 9595 141 kuka@kuka.it

6 . Avenue du Parc 91140 Villebon S/Yvette . France P +33 1 6931660 0 F +33 1 6931660 1 commercial@kuka.fr

Regensburger Strasse 9/1 4020 Linz . Austria P +43 732 784752 F +43 732 793880 office@kuka-roboter.at

Avd. Norway Bryggeveien 9 . Postbox 17 2801 Gjövik . Norway P +47 61 133422 F +47 61 186200

DE AUTOMATIZACIÓN S.A. Rua do Alto da Guerra nº50 Armazém 04 2910-011 Setúbal . Portugal P +351 265 729780 F +351 265 729782 kuka@mail.telepac.pt

KUKA SISTEMAS
DE AUTOMATIZACIÓN S.A.
Pol. Industrial . Torrent de la Pastera Carrer del Bages s/n 08800 Vilanova i la Geltrú Barcelona . Spain P +34 93 8142 353 F +34 93 8142 950 comercial@kuka-e.com

Riedstrasse 7 8953 Dietikon . Switzerland P +41 44 74490 90 info@kuka-roboter.ch

KUKA AUTOMATION + ROBOTICS Hereward Rise Halesowen West Midlands B62 8AN GB Great Britain P +44 121 5850 800 sales@kuka.co.uk

RUBEN COSTANTINI S.A. Luis Angel Huergo 13-20 Parque Industrial 2400 San Francisco (CBA) Argentina P +54 3564 421033 F +54 3564 428877 ventas@costantini-sa.com

ROBOTEC S.A. Darío Urzúa 2097 Providencia-Santiago . Chile robotec@robotec.cl

Parque Novo Mundo Jd. Guanca CEP 02151 900 - Sao Paolo . Brazil P +55 11 6984 4900 F +55 11 6201 7883 info@kuka-roboter.com.br

Rio San Joaquin #339 . Local 5 Colonia Pensil Sur México . D.F. C.P. 11490 P +52 55 52038 407 F +52 55 52038 148 info@kuka.com.mx

KUKA ROBOTICS CORP. 22500 Key Drive Clinton Township Michigan 48036 . usa T 866 8735852 (toll-free) P +1 586 5692082 F +1 586 5692087 info@kukarobotics.com

ENGINEERING PTY. LTD. 153 Keys Road

Moorabbin . Victoria 31 89 P +61 3 855206 00 robotics@marand.com.au

KUKA FLEXIBLE MANUFACTURING SYSTEMS (SHANGHAI) CO., LTD. Building No. 9. Tianying Rd 502 Shanghai Qingpu Industrial Zone 201712 Shanghai . P.R. China P +86 21 5922 8883 F +86 21 5922 8538 info@kuka.cn

KUKA ROBOT AUTOMATION KOREA CO. LTD. 4 Ba 806 Sihwa Ind. Complex Sung-Gok Dong . Ansan City Kyunggi Do . 425-110 . Korea P +82 31 49699 37 F +82 31 49699 39 info@kukakorea.com

KUKA ROBOT AUTOMATION SDN BHD SOUTH EAST ASIA REGIONAL OFFICE No. 24 . Jalan TPP 1/10 Taman Industri Puchong 47100 Puchong . Selangor . Malaysia P +60 3 80610613 F +60 3 80617386 info@kuka.com.my

TAIWAN CO. LTD.

136 . Section 2 . Huanjung East Road
Jungli City . Taoyuan
Taiwan 320 P +886 3 4371902 F +886 3 2830023 info@kuka.com.tw

KUKA ROBOT AUTOMATION (M) SDN BHD
THAILAND OFFICE
111/1-3 . Moo 12 . Kingkaew Road
Ratchatheva . Bangplee
Samutprakarn 10540 . Thailand
P +66 2 312-4954 /-4955
F +66 2 7504399 nithipong@kuka.com.my

Private Limited 621 Galleria Towers DLF Phase IV Gurgaon 122 002 Haryana . India P +91 123 4148574 info@kuka.in

JENDAMARK AUTOMATION LTD. 76a York Road

Port Elizabeth 6000 . South Africa P +27 41 3914700 F +27 41 3733869 info@jendamark.co.za



