

The SIA-series are small and agile 7-axis robots providing „human-like“ flexibility of movement and fast acceleration. They distinguish themselves through slim and lightweight design. They offer high payload and big working ranges. These agile and versatile robots open up a wide range of industrial applications: ideal for assembly, injection moulding, inspection, machine tending and a host of other operations.

These all-round robots can be driven by the high performance DX100 controller as well as the compact FS100 controller.

- 7 axes
- Flexible applications
- Compact design allows maximum performance



MOTOMAN SIA-series



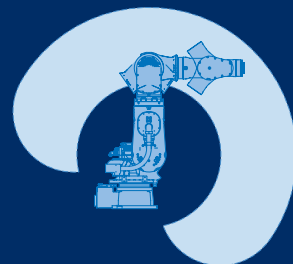
SIA5F



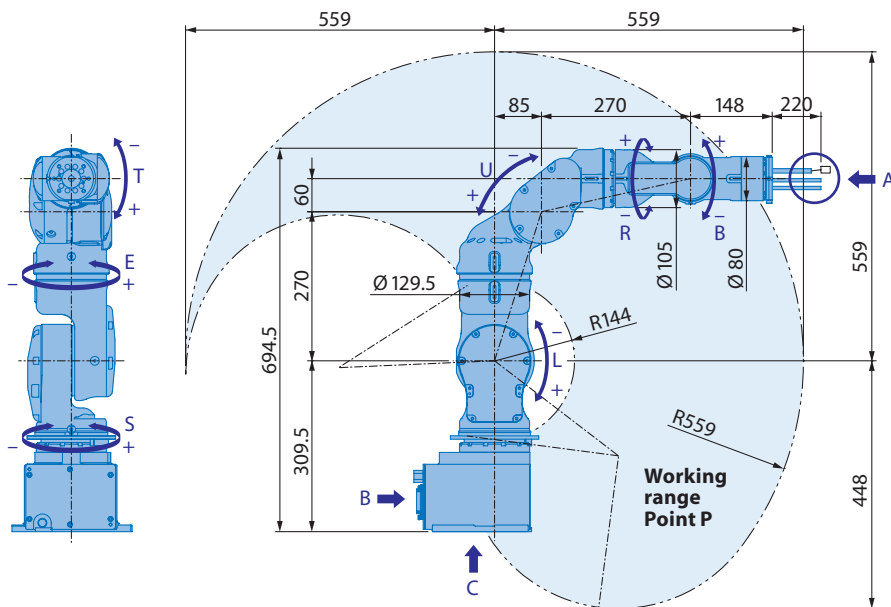
SIA10D
SIA10F



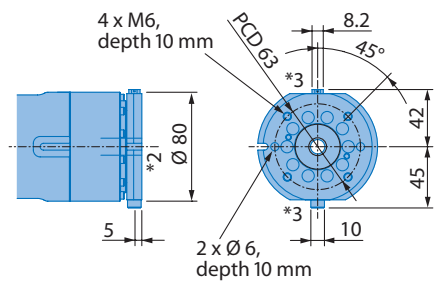
SIA20D
SIA20F



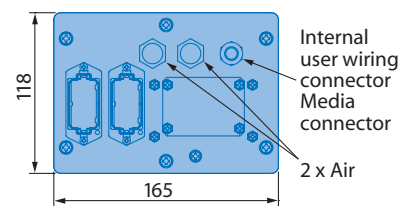
SIA50D



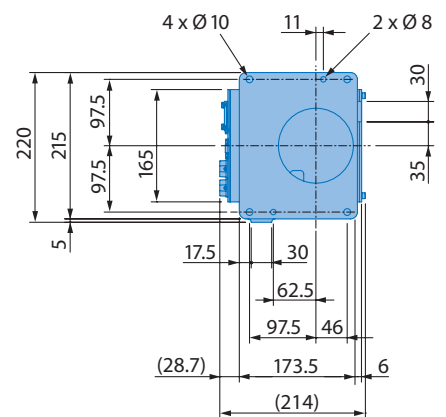
View A



View B

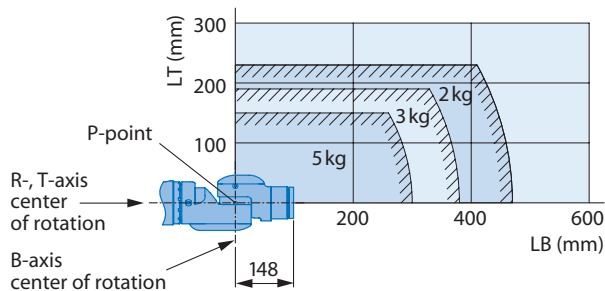


View C



Mounting options: Floor, wall, ceiling

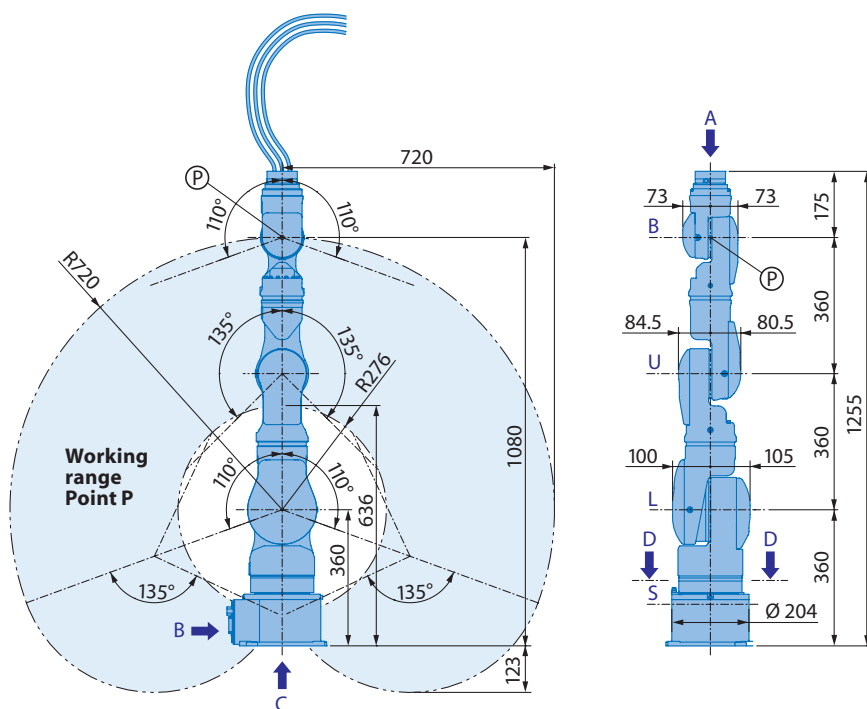
Allowable wrist load



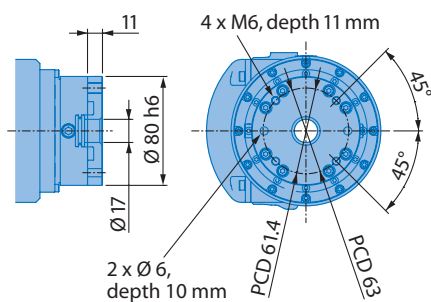
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – YR-SIA05D-A00, B-07-2012, A-No. 157198

Specifications SIA5F

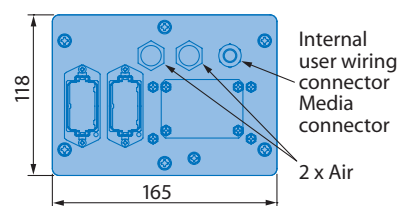
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	200	–	–	Max. payload [kg]	5
L	±110	200	–	–	Repeat. pos. accuracy [mm]	±0.6
θ	±170	200	–	–	Max. reach [mm]	R = 559
U	–90/+115	200	–	–	Temperature [°C]	0 to +40
R	±180	200	14.7	0.45	Humidity [%]	20 – 80
B	±110	230	14.7	0.45	Weight [kg]	30
T	±180	350	7.35	0.11	Power supply, average [KVA]	1.0



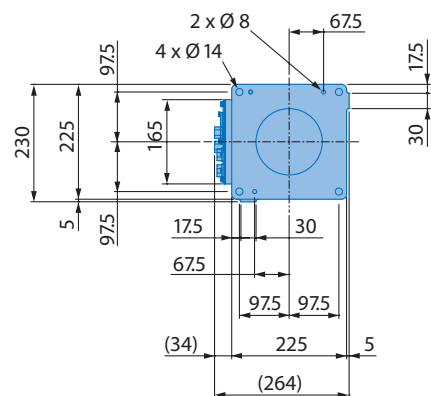
View A



View B

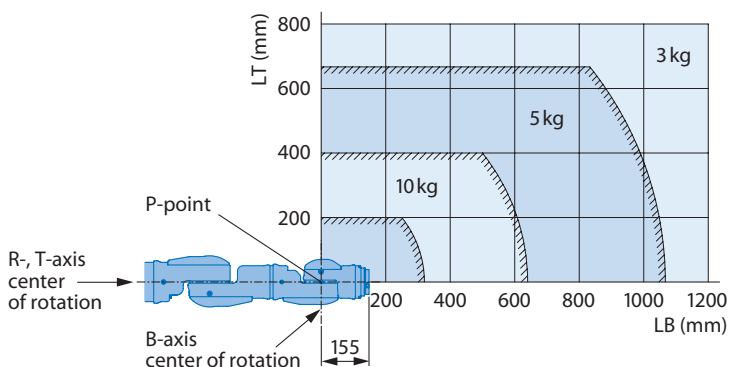


View C



Mounting options: Floor, wall, ceiling

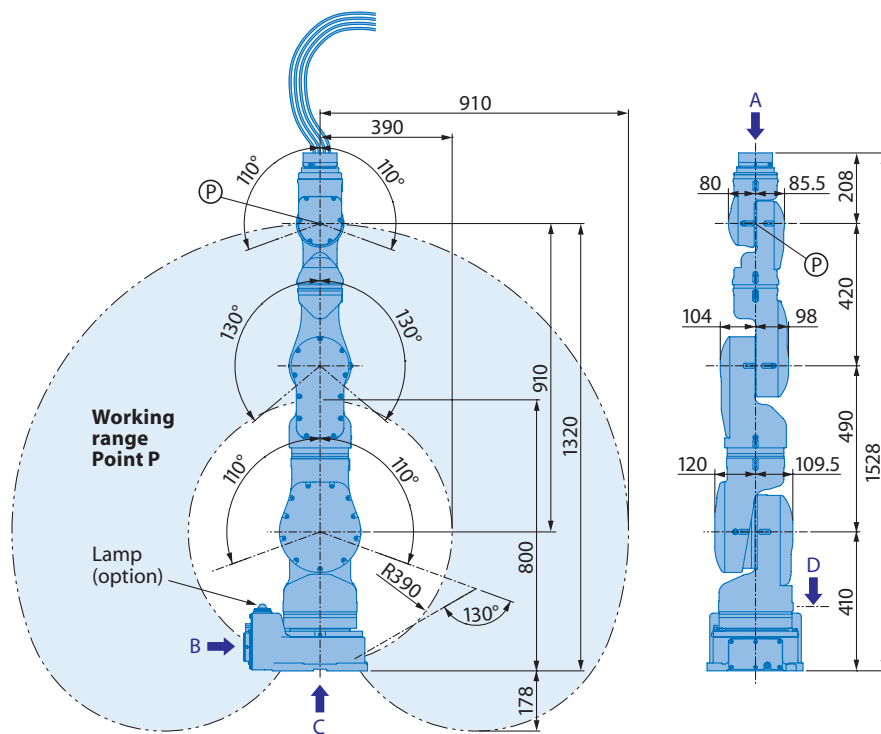
Allowable wrist load



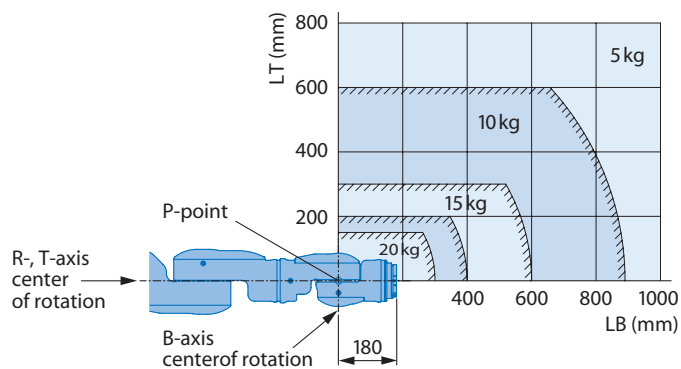
All dimensions in mm | Technical data may be subject to change without previous notice |
Please request detailed drawings at robotics@yaskawa.eu.com – YR-SIA010D-A11, B-07-2012, A-No. 157198

Specifications SIA10D, SIA10F

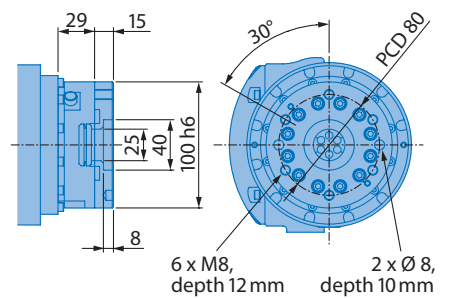
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	170	–	–	Max. payload [kg]	10
L	±110	170	–	–	Repeat. pos. accuracy [mm]	±0.6
θ	±170	170	–	–	Max. reach [mm]	R = 720
U	±135	170	–	–	Temperature [°C]	0 to +40
R	±180	200	31.4	1.0	Humidity [%]	20 – 80
B	±110	200	31.4	1.0	Weight [kg]	60
T	±180	400	19.6	0.4	Power supply, average [KVA]	1.0



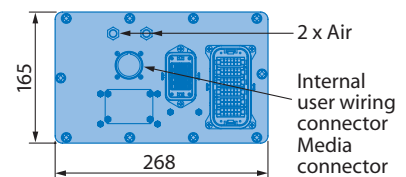
Allowable wrist load



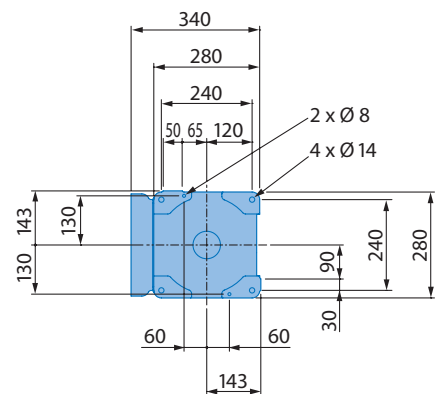
View A



View B



View C



Mounting options: Floor, wall, ceiling



All dimensions in mm | Technical data may be subject to change without previous notice |
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Specifications SIA20D, SIA20F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	130	–	–	Max. payload [kg]	20
L	±110	130	–	–	Repeat. pos. accuracy [mm]	±0.1
θ	±170	170	–	–	Max. reach [mm]	R = 910
U	±130	170	–	–	Temperature [°C]	0 to +40
R	±180	200	58.8	4.0	Humidity [%]	20 – 80
B	±110	200	58.8	4.0	Weight [kg]	120
T	±180	400	29.4	2.0	Power supply, average [KVA]	2.2

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	7
					Max. payload [kg]	50
S	±180	170	–	–	Repeat. pos. accuracy [mm]	±0.1
L	–60/+125	130	–	–	Max. reach [mm]	R = 1485
θ	±170	130	–	–	Temperature [°C]	0 to +40
U	–35/+225	130	–	–	Humidity [%]	20 – 80
R	±170	130	377	29.6	Weight [kg]	640
B	±125	130	377	29.6	Power supply, average [KVA]	5.0
T	±180	200	14	12.5		

YASKAWA Headquarters

YASKAWA Europe GmbH
Robotics Division
Yaskawastraße 1
D-85391 Allershausen
Tel. +49 (0) 8166/90-0
Fax +49 (0) 8166/90-103

YASKAWA Academy and sales office Frankfurt

YASKAWA Europe GmbH
Robotics Division
Hauptstraße 185
D-65760 Eschborn
Tel. +49 (0) 6196/77725-0
Fax +49 (0) 6196/77725-39

YASKAWA Group

- A YASKAWA Austria
Schwechat/Wien +43(0)1-707-9324-15
- CZ YASKAWA Czech s.r.o.
Rudná u Prahy +420-257-941-718
- E YASKAWA Ibérica, S.L.
Gavà/Barcelona +34-93-6303478
- F YASKAWA France SARL
Saint-Aignan-de-Grand-Lieu
+33-2-40131919
- FIN YASKAWA Finland Oy
Turku +358-(0)-403000600
- GB YASKAWA UK Ltd.
Banbury +44-1295-272755
- I YASKAWA Italia s.r.l.
Torino +39-011-9005833
- IL YASKAWA Europe Technology Ltd.
Rosh Ha'ayin +972-3-9004114
- NL YASKAWA Benelux B.V.
EB Son +31-40-2895500
- RUS YASKAWA Nordic AB
Moskva +46-480-417-800
- SE YASKAWA Nordic AB
Torsås +46-480-417-800
- SI YASKAWA Slovenia
Ribnica +386-1-8372-410
- TR YASKAWA Türkiye
Şerifali Mah. Barbaros Cad. No: 24
Ümraniye, İstanbul +90-216-5273450
- ZA YASKAWA Southern Africa (PTY) Ltd
Johannesburg +27-11-6083182

Distributors

- BG Kammarton Bulgaria Ltd.
Sofia +359-02-926-6060
- CH Messer Eutectic Castolin Switzerland S.A.
Dällikon +41-44-847-17-17
- DK Robotcenter Danmark
Løsning +45 7022 2477
- EE RKR Seadmed OÜ
Tallinn/Estonia +372-68-35-235
- GR Gizelis Robotics
Nea Kifissia +30-2106251455
- H Flexman Robotics Kft
Budapest +36-30-9510065
- LT Profibus UAB
Panevezys +370-45-518575
- N Optimove as
Lierstranda +47-32240600
- PL Integrator RHC Sp. z o.o.
Torun +48-56-6519710
- RO Sam Robotics srl
Timisoara +40-720-279-866



www.yaskawa.eu.com
robotics@yaskawa.eu.com

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