

YASKAWA

MOTOMAN SIA-SERIES

Flexible Applications with the SIA-series

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.

This robots are driven by the compact MOTOMAN FS100 controller.

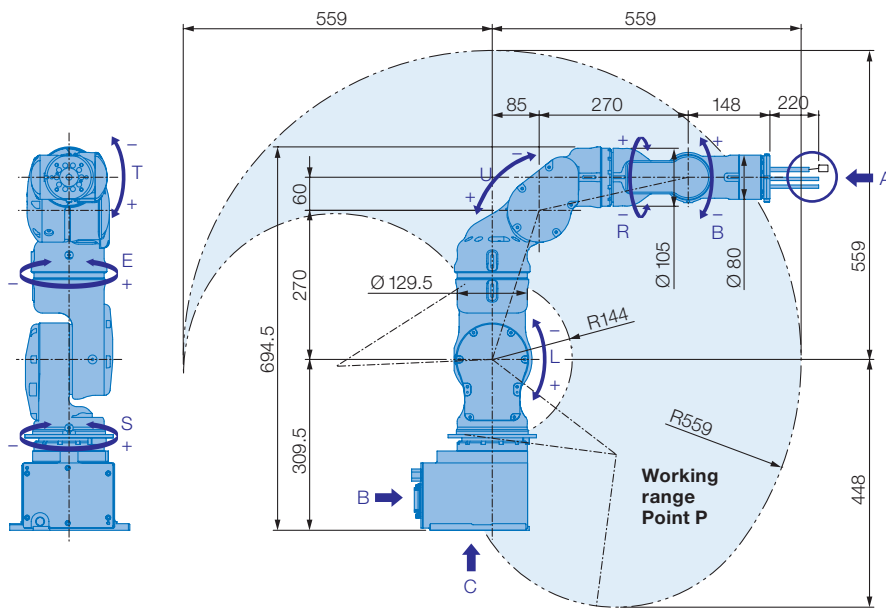


KEY BENEFITS

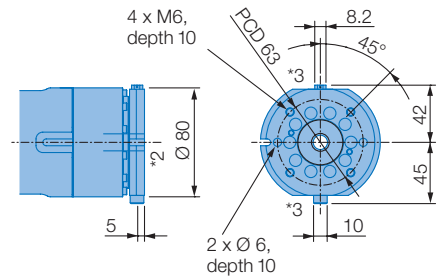
- 7 axes
- Flexible applications
- Compact design allows maximum performance

Controlled by
FS100

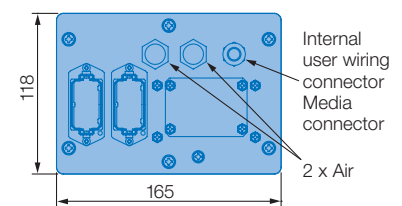
MOTOMAN SIA5F



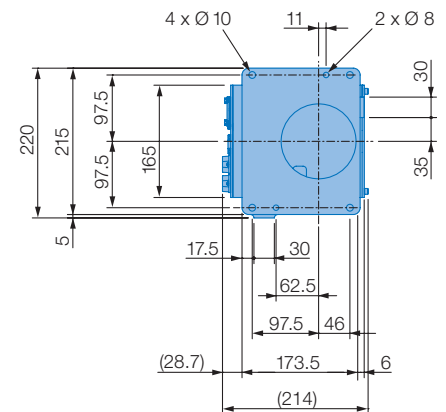
View A



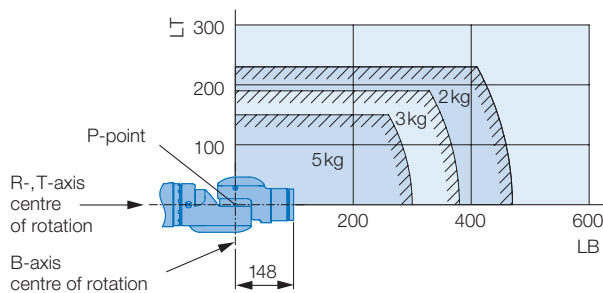
View B



View C



Allowable wrist load



Mounting options: Floor, wall, ceiling

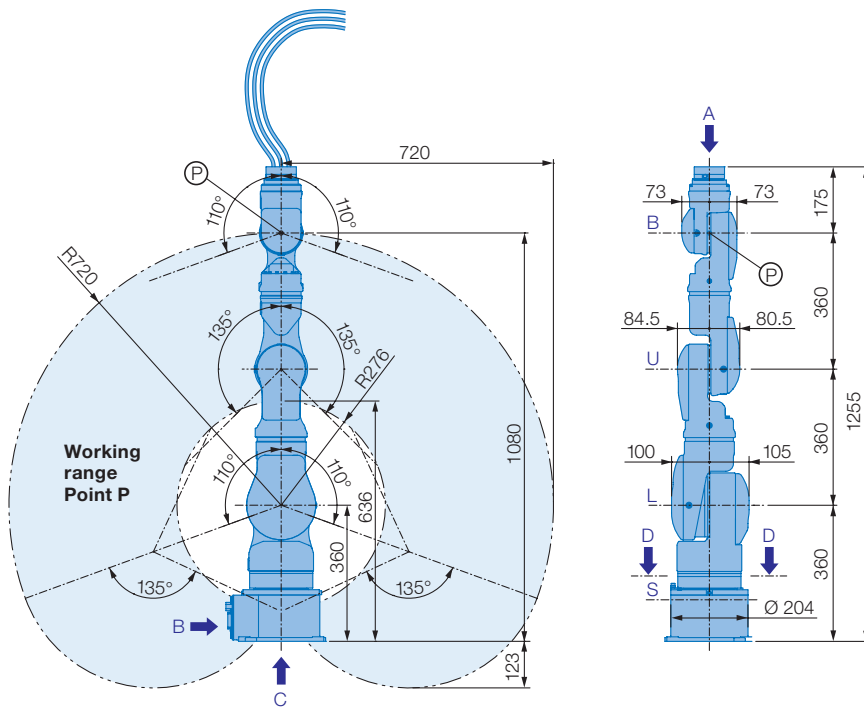


All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu - YR-SIA0005F-A00, D-06-2015, A-No. 157198

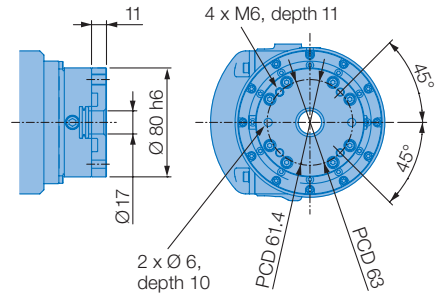
Specifications SIA5F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
					Controlled axes	7
S	±180	200	–	–	Max. payload [kg]	5
L	±110	200	–	–	Repeat. pos. accuracy [mm]	±0.06
θ	±170	200	–	–	Max. working range R [mm]	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

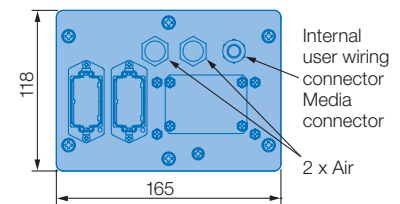
MOTOMAN SIA10D, SIA10F



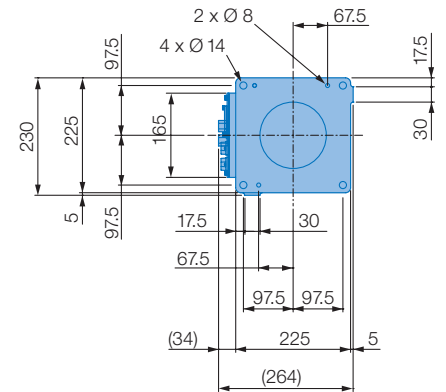
View A



View B

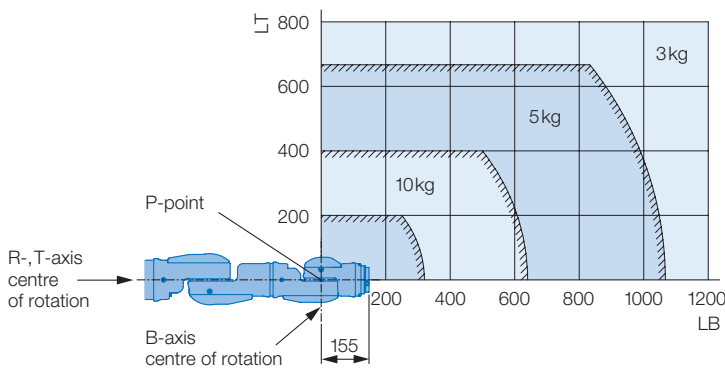


View C



Mounting options: Floor, wall, ceiling

Allowable wrist load

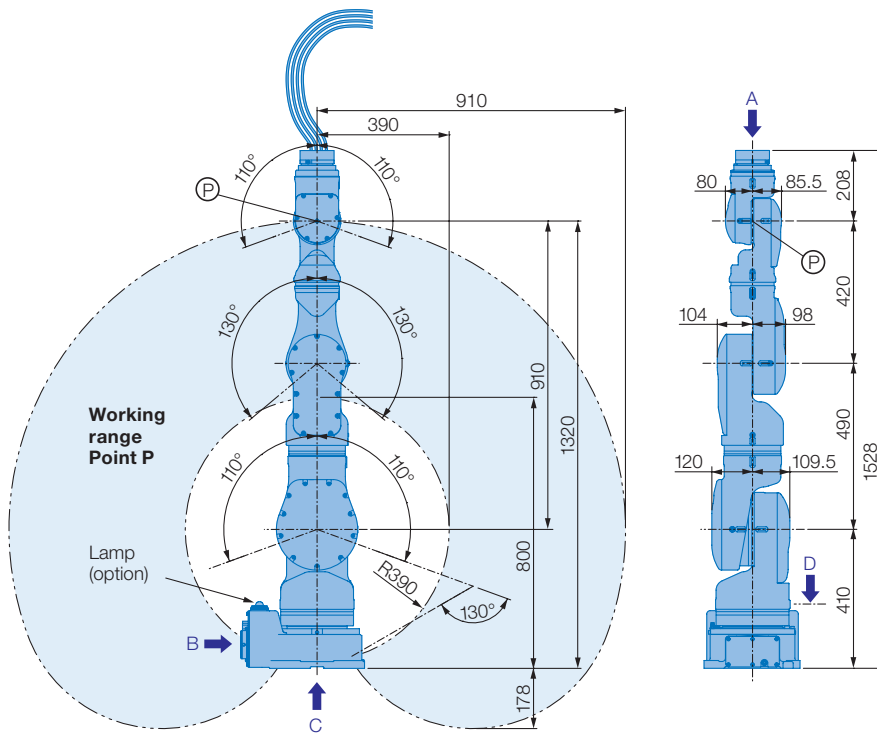


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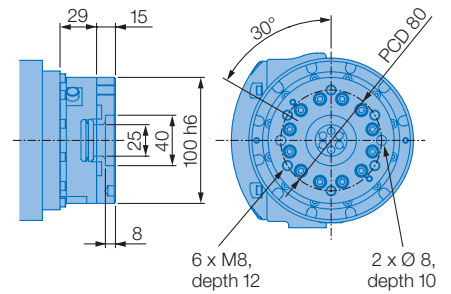
Specifications SIA10F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]		
					Controlled axes	7
S	± 180	170	–	–	Max. payload [kg]	10
L	± 110	170	–	–	Repeat. pos. accuracy [mm]	± 0.06
θ	± 170	170	–	–	Max. working range R [mm]	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

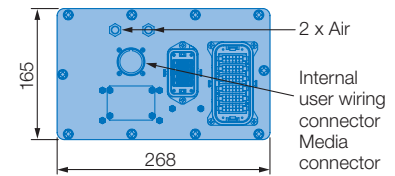
MOTOMAN SIA20D, SIA20F



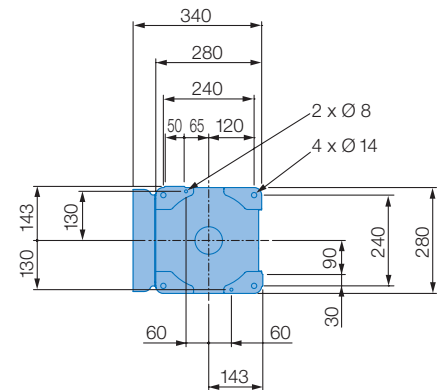
View A



View B

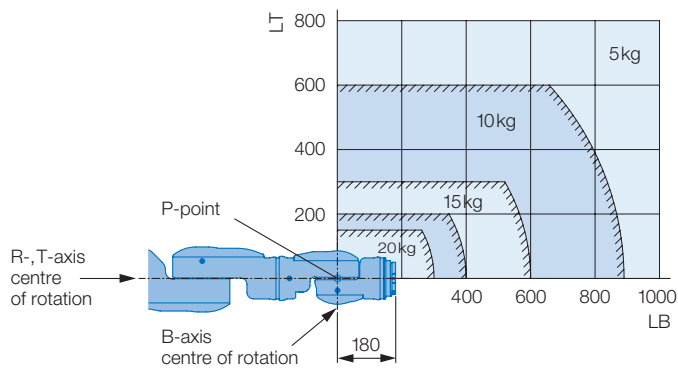


View C



Mounting options: Floor, wall, ceiling

Allowable wrist load

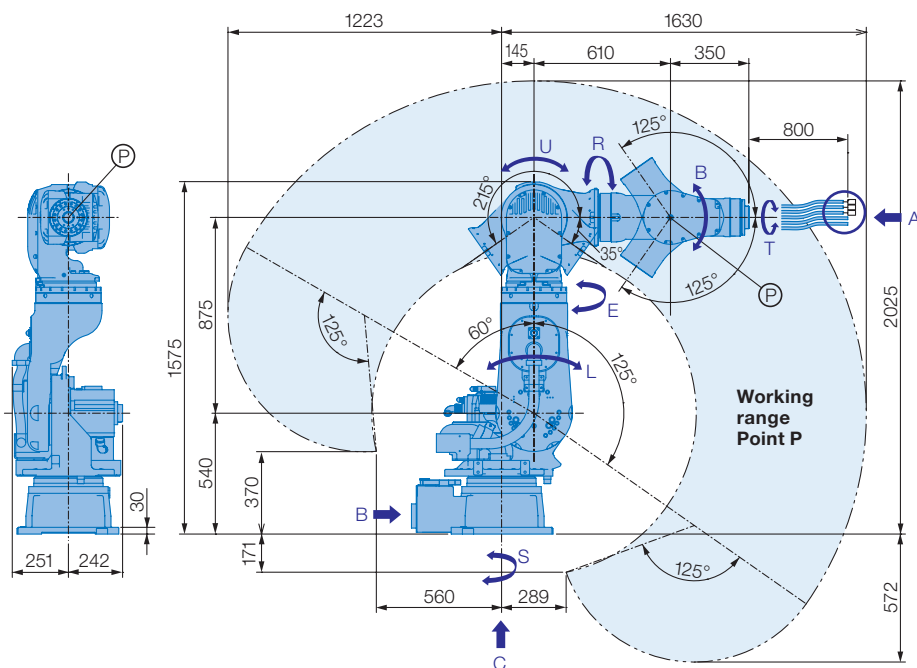


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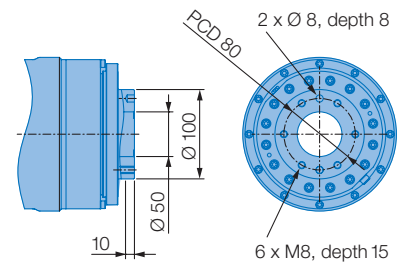
Specifications SIA20F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]		
					Controlled axes	7
S	±180	130	–	–	Max. payload [kg]	20
L	±110	130	–	–	Repeat. pos. accuracy [mm]	±0.1
θ	±170	170	–	–	Max. working range R [mm]	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

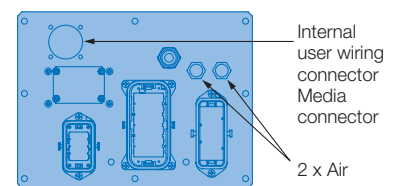
MOTOMAN SIA50D



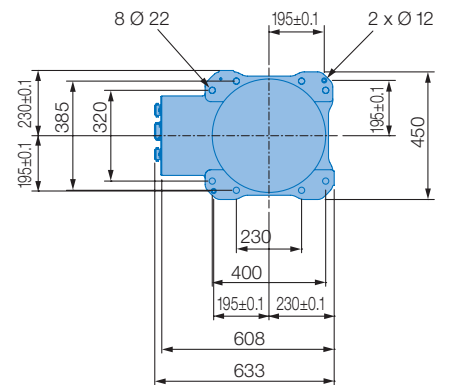
View A



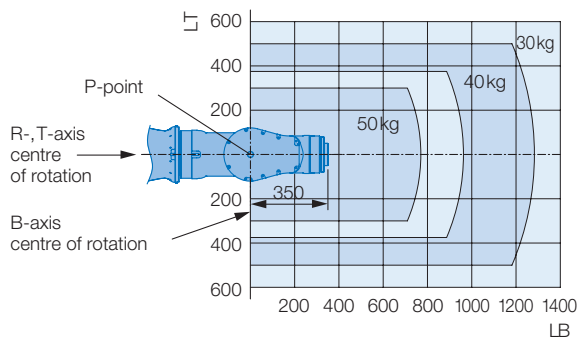
View B



View C



Allowable wrist load



Mounting options: Floor, wall, ceiling

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Specifications SIA50D

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]		
					Controlled axes	7
S	±180	170	—	—	Max. payload [kg]	50
L	−60/+125	130	—	—	Repeat. pos. accuracy [mm]	±0.1
θ	±170	130	—	—	Max. working range R [mm]	1485
U	−35/+225	130	—	—	Temperature [°C]	0 to +40
R	±170	130	377	29.6	Humidity [%]	20 – 80
B	±125	130	377	29.6	Weight [kg]	640
T	±180	200	14	12.5	Power supply. average [KVA]	5.0

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