

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.

Controlled by
DX100

Controlled by
FS100



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

MOTOMAN SIA-series



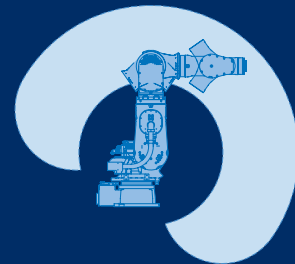
SIA5F



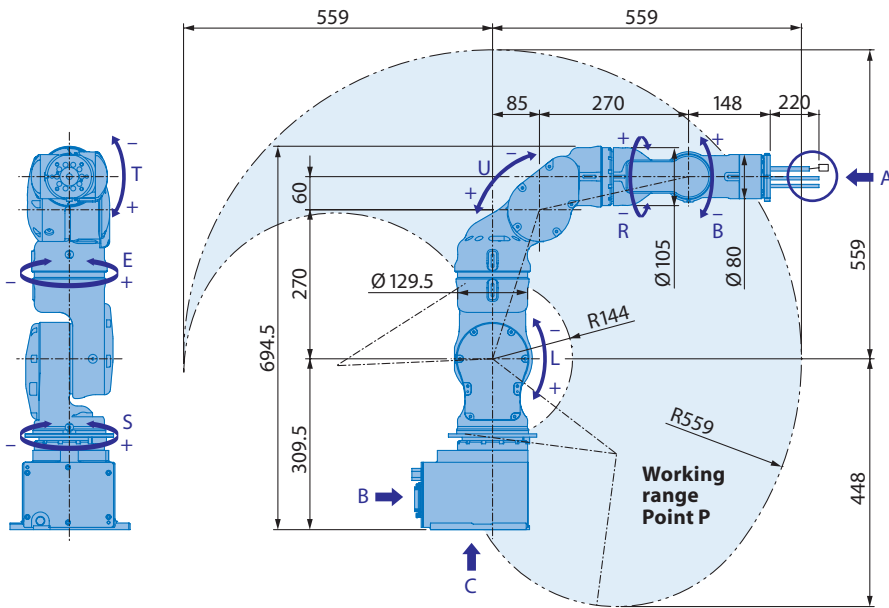
SIA10D
SIA10F



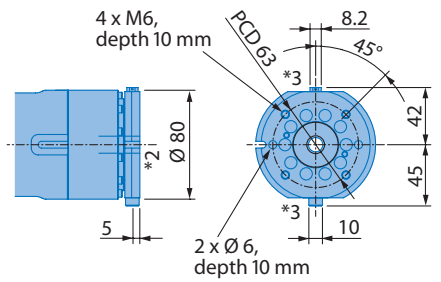
SIA20D
SIA20F



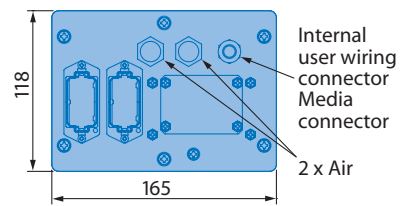
SIA50D



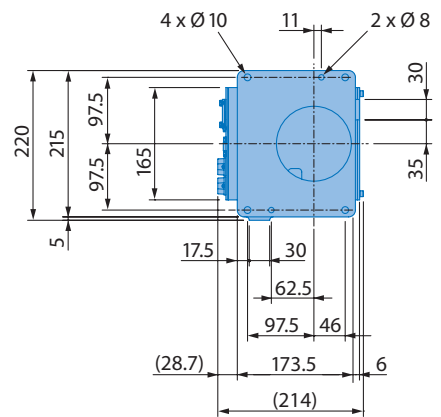
View A



View B

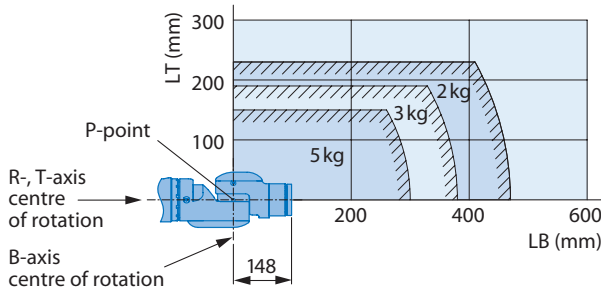


View C



Mounting options: Floor, wall, ceiling

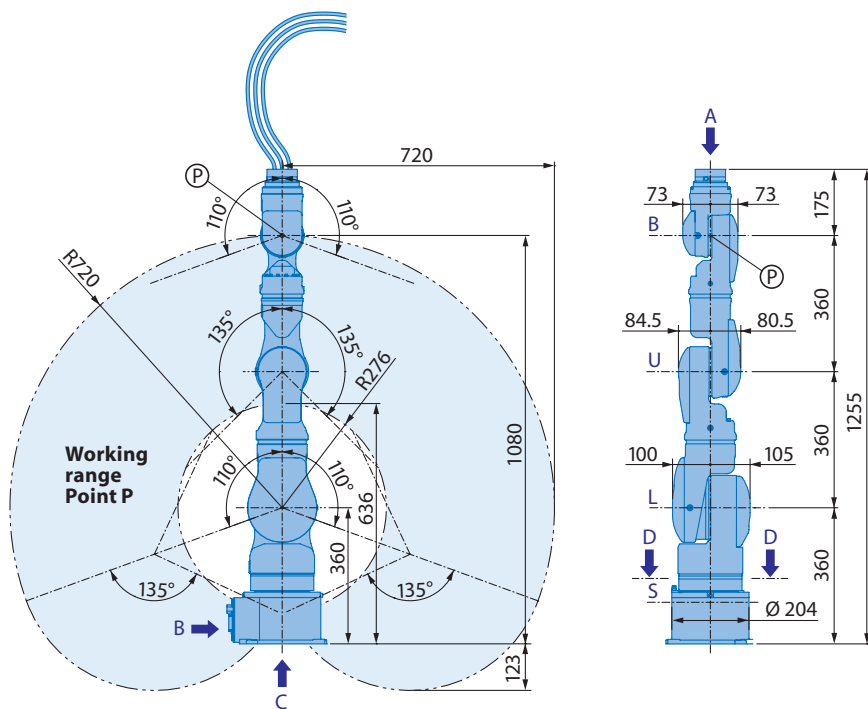
Allowable wrist load



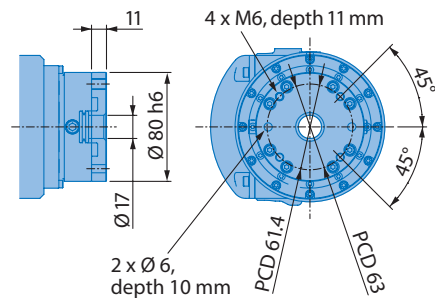
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – YR-SIA05D-A00, C-04-2014, A-No. 157198

Specifications SIA5F

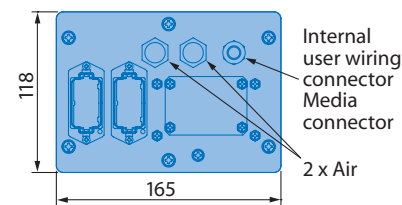
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	200	-	-	Max. payload [kg]	7
L	±110	200	-	-	Repeat. pos. accuracy [mm]	±0.06
θ	±170	200	-	-	Max. reach [mm]	R = 559
U	-90/+115	200	-	-	Temperature [°C]	0 to +40
R	±180	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



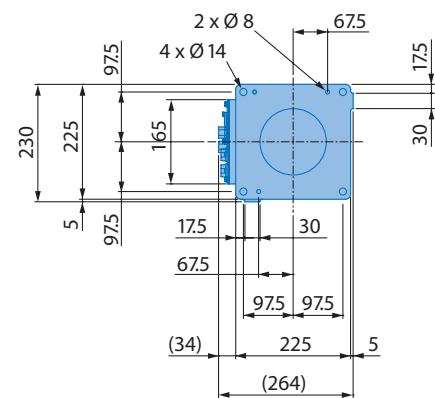
View A



View B

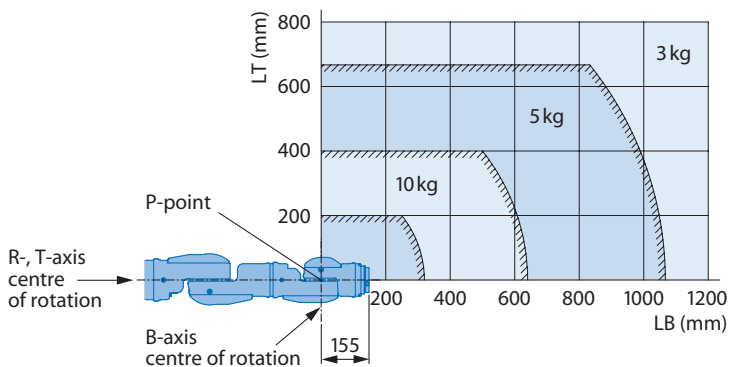


View C



Mounting options: Floor, wall, ceiling

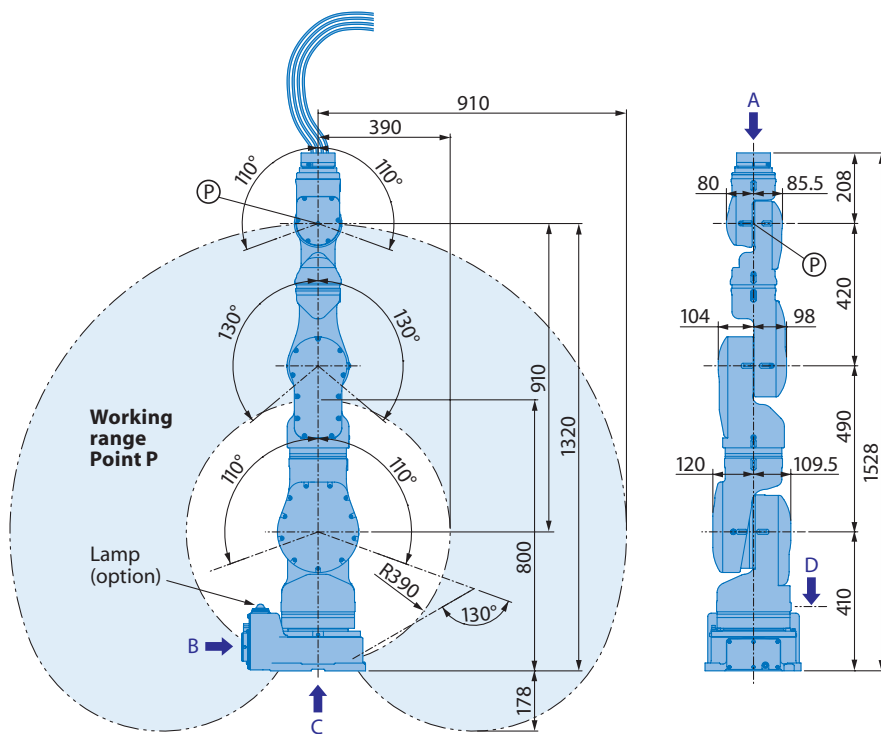
Allowable wrist load



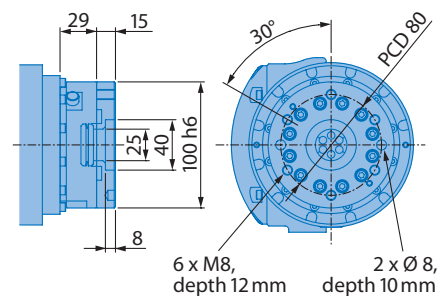
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – YR-SIA010D-A11, C-04-2014, A-No. 157198

Specifications SIA10D, SIA10F

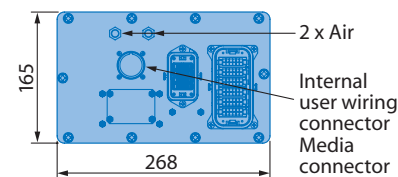
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	170	-	-	7	
L	±110	170	-	-	Max. payload [kg]	10
θ	±170	170	-	-	Repeat. pos. accuracy [mm]	±0.06
U	±135	170	-	-	Max. reach [mm]	R = 720
R	±180	200	31.4	1.0	Temperature [°C]	0 to +40
B	±110	200	31.4	1.0	Humidity [%]	20 – 80
T	±180	400	19.6	0.4	Weight [kg]	60
					Power supply, average [KVA]	1.0



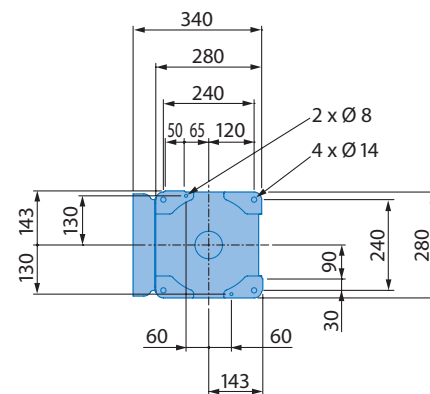
View A



View B

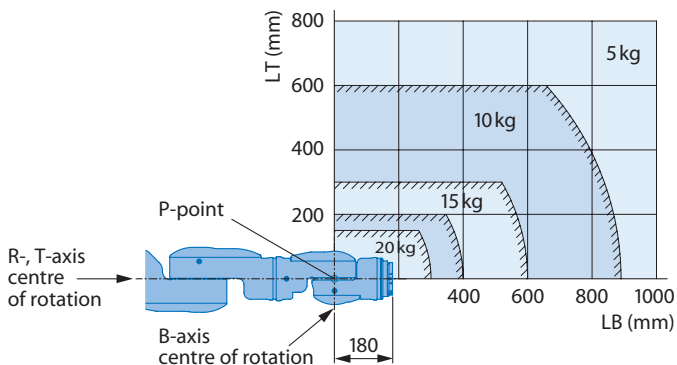


View C



Mounting options: Floor, wall, ceiling

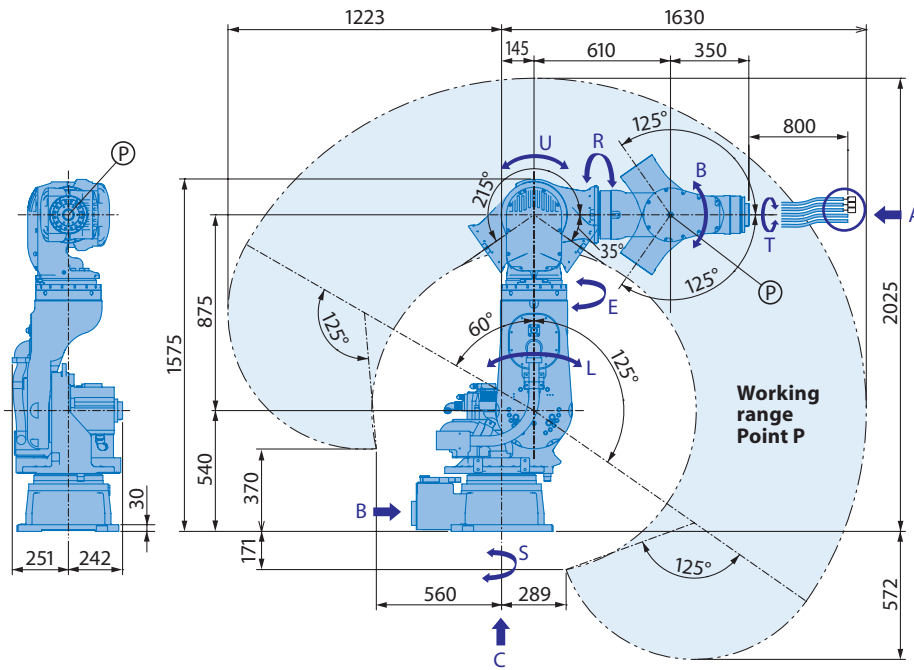
Allowable wrist load



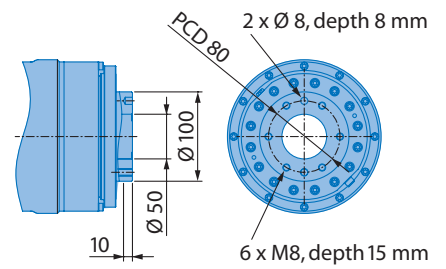
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – YR-SIA020D-A11, C-04-2014, A-No. 157198

Specifications SIA20D, SIA20F

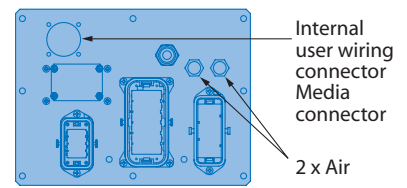
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±180	130	-	-	Max. payload [kg]	7
L	±110	130	-	-	Repeat. pos. accuracy [mm]	±0.1
θ	±170	170	-	-	Max. reach [mm]	R = 910
U	±130	170	-	-	Temperature [°C]	0 to +40
R	±180	200	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



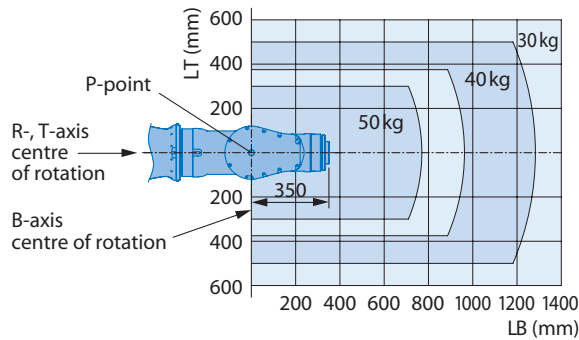
View A



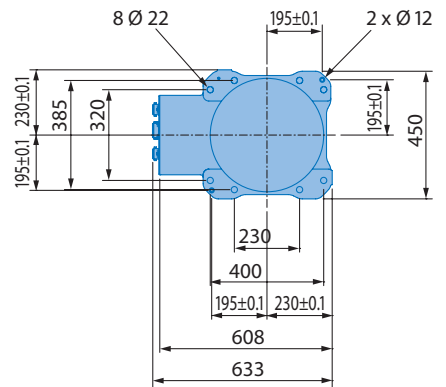
View B



Allowable wrist load



View C



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.com – YR-SIA050D-A00, C-04-2014, A-No. 157198

Specifications SIA50D

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]	7
L	–60/+125	130	–	–	Repeat. pos. accuracy [mm]	±0.1
θ	±170	130	–	–	Max. reach [mm]	R = 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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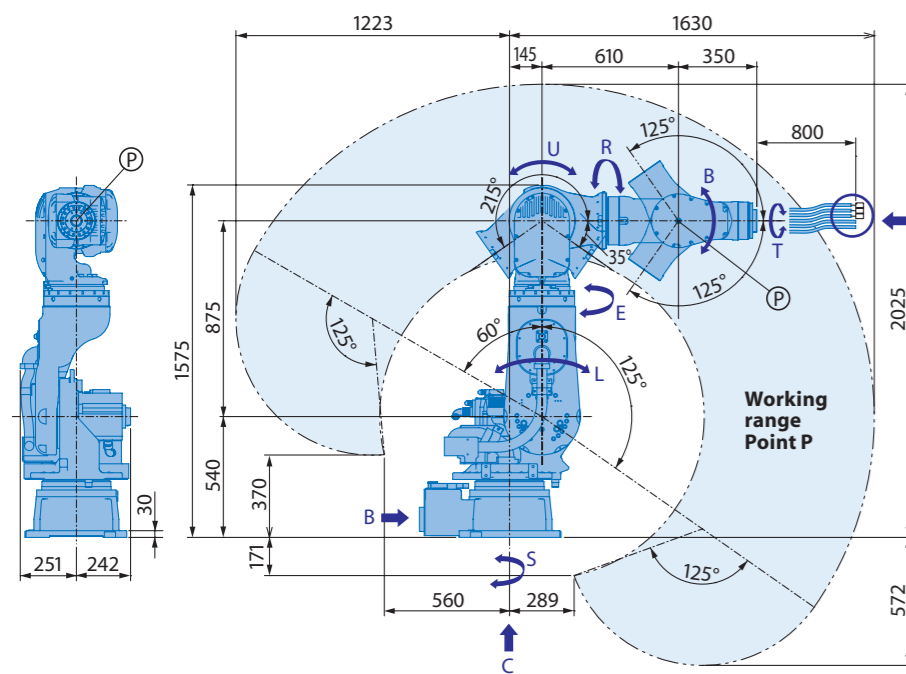
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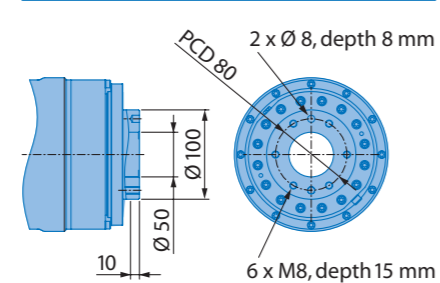


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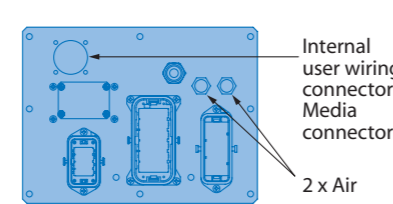
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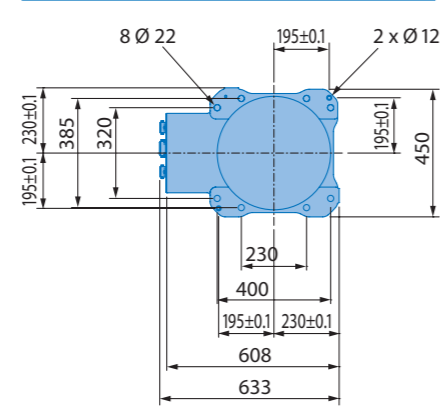
View A



View B

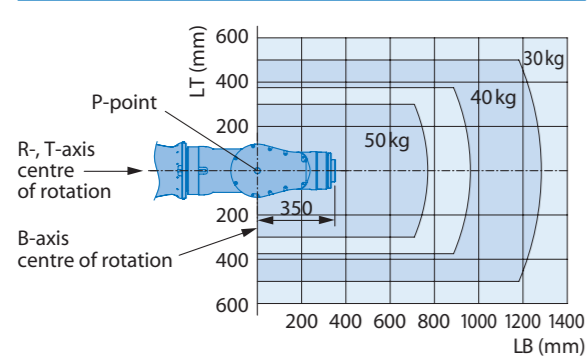


View C



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-SIA050D-A00, C-04-2014, A-No. 157198

Specifications SIA50D

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]	50
L	–60/+125	130	–	–	Repeat. pos. accuracy [mm]	±0.1
θ	±170	130	–	–	Max. reach [mm]	R = 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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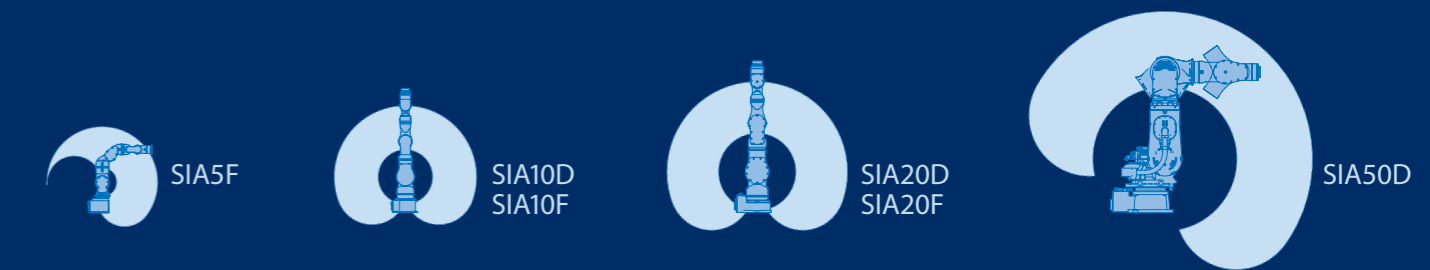
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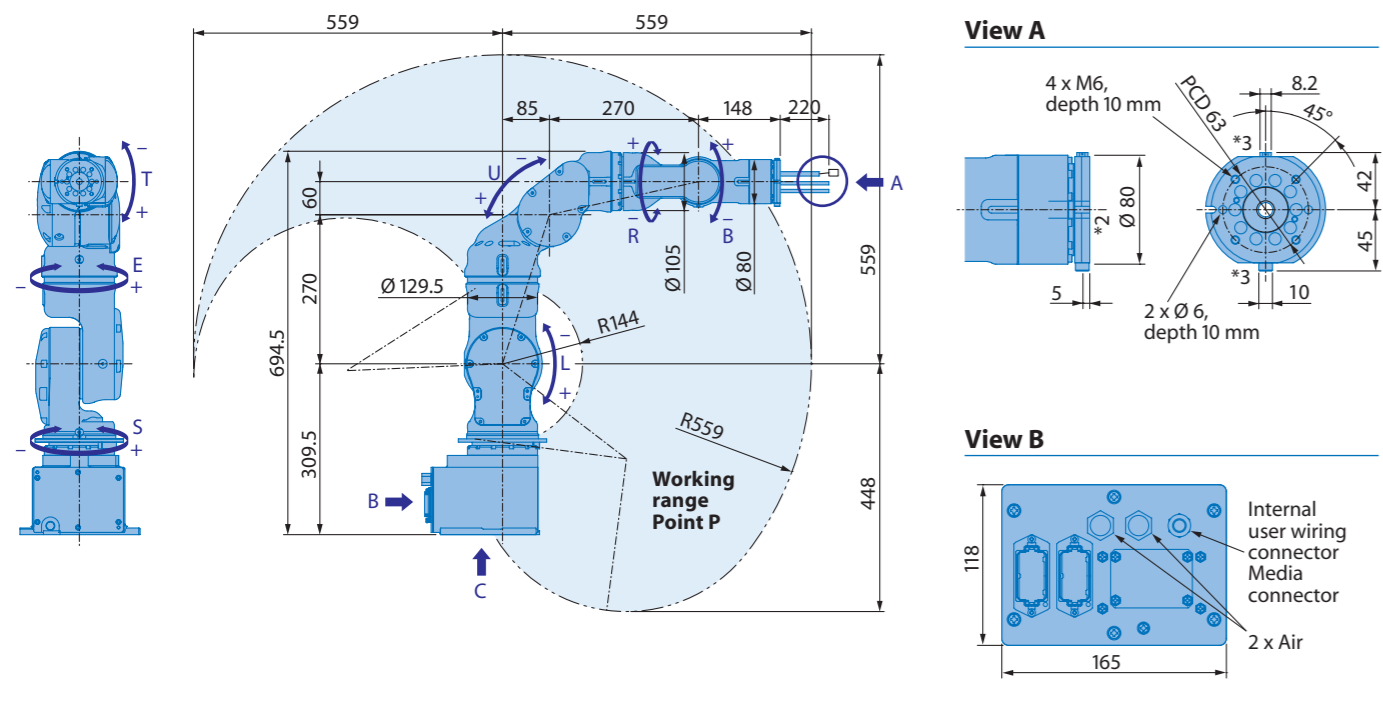
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 • Flexible applications
 • Compact design allows maximum performance



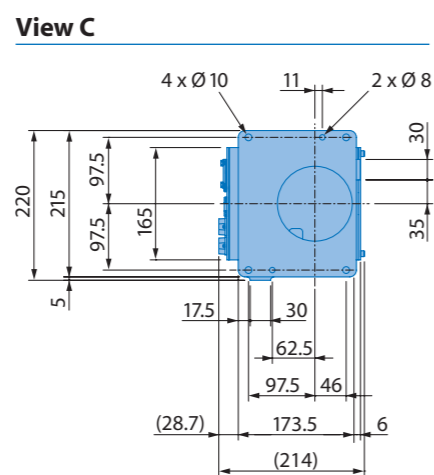
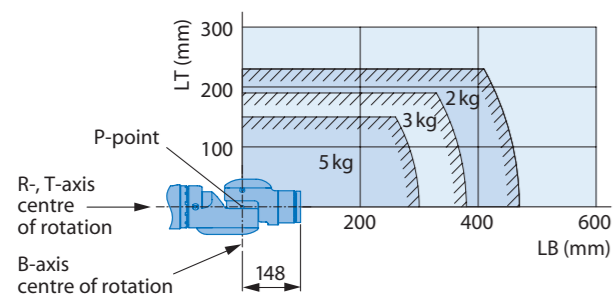
Controlled by DX100
 Controlled by FS100

MOTOMAN SIA-series





Allowable wrist load



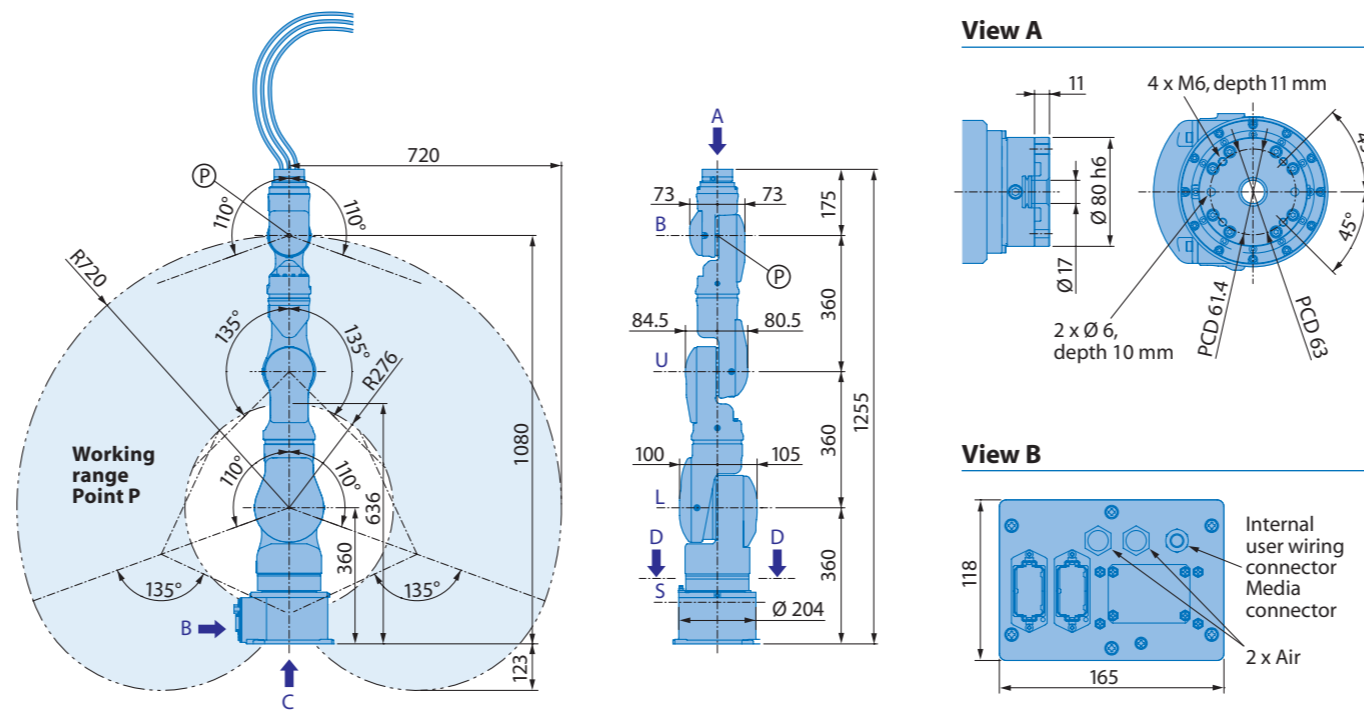
Mounting options: Floor, wall, ceiling



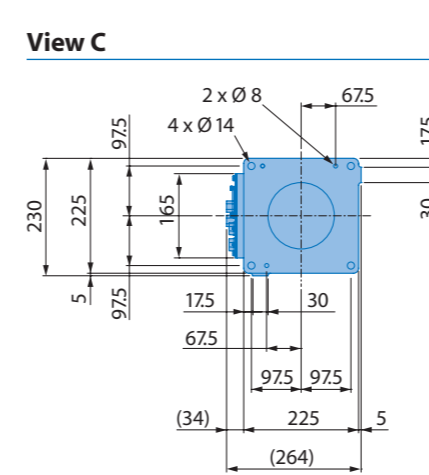
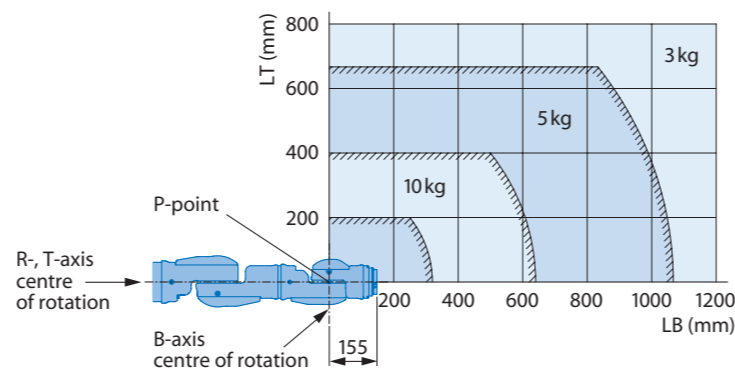
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Specifications SIA5F

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]	7
L	±110	200	-	-	Repeat. pos. accuracy [mm]	±0.06
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



Allowable wrist load



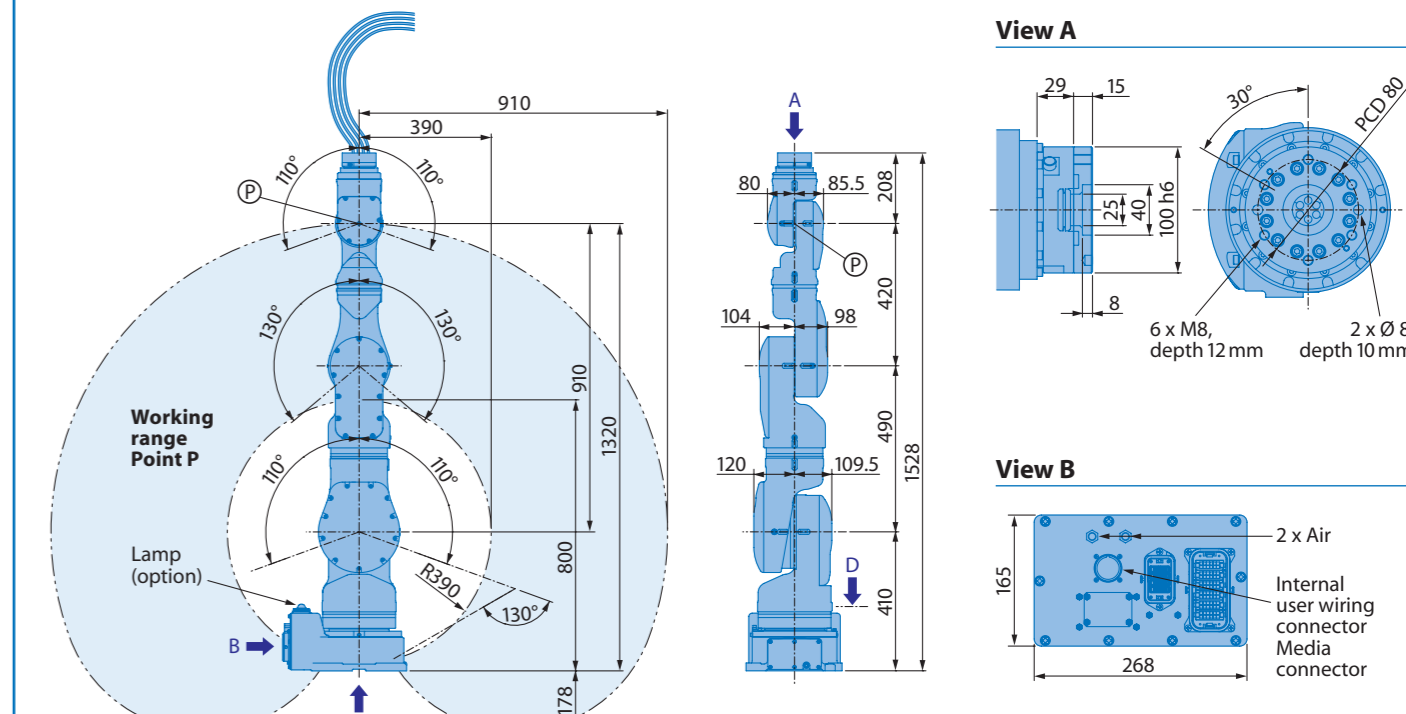
Mounting options: Floor, wall, ceiling



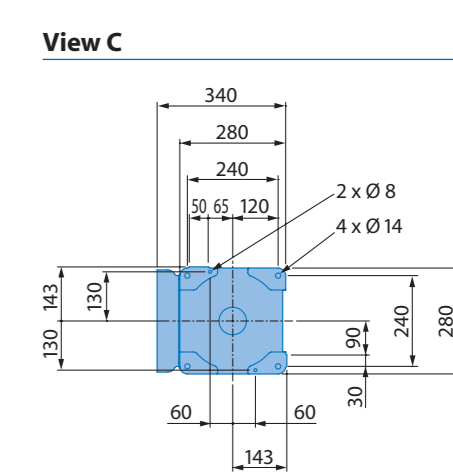
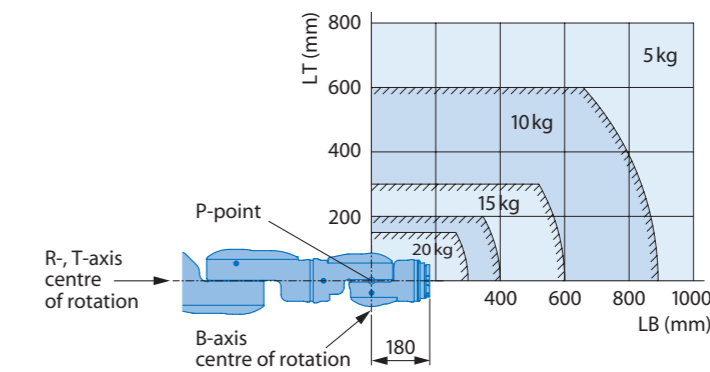
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com - YR-SIA10D-A11, C-04-2014, A-No. 157198

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]	7
L	±110	170	-	-	Repeat. pos. accuracy [mm]	±0.06
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



Mounting options: Floor, wall, ceiling



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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]	7
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