

The SDA-series are slim and agile 15-axis dual-arm robots providing „human-like“ flexibility of movement and fast acceleration. They distinguish themselves through slim and lightweight design. Superior dexterity and best-in-class wrist characteristics make slim, dual-arm robots ideally suited for assembly, part transfer, machine tending, packaging and other handling tasks, that formerly could only be done by people. These all-round robots can be driven by the high performance DX100 controller as well as the FS100 compact controller.

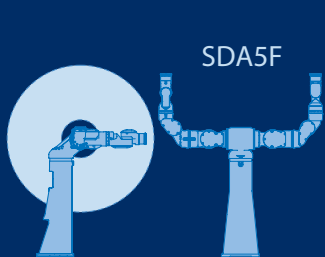
Controlled by
DX100

Controlled by
FS100

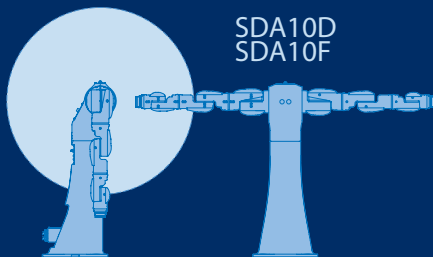


- 15 axes
- Flexible applications
- Compact design allows maximum performance

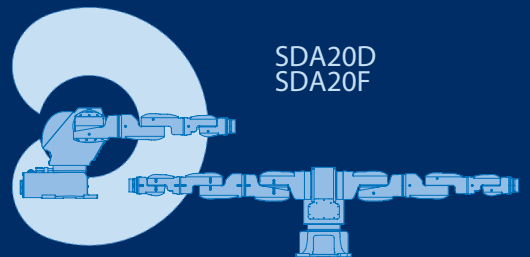
MOTOMAN SDA-series



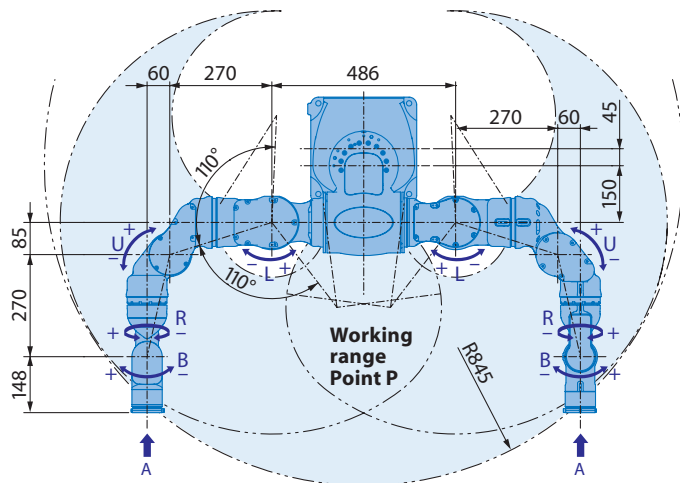
SDA5F



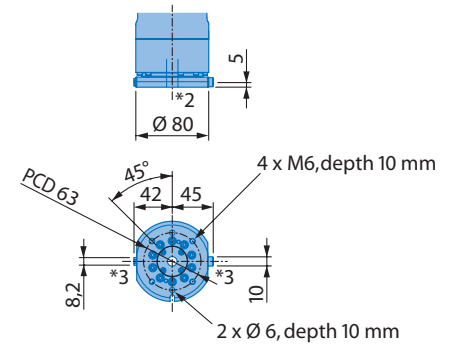
SDA10D
SDA10F



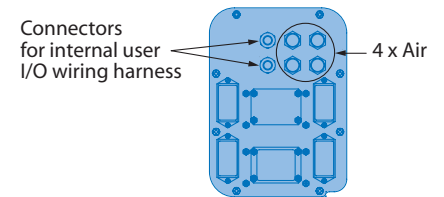
SDA20D
SDA20F



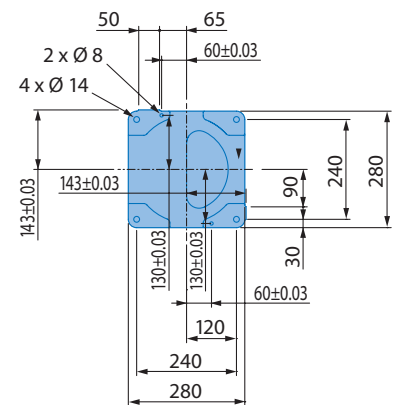
View A



View B

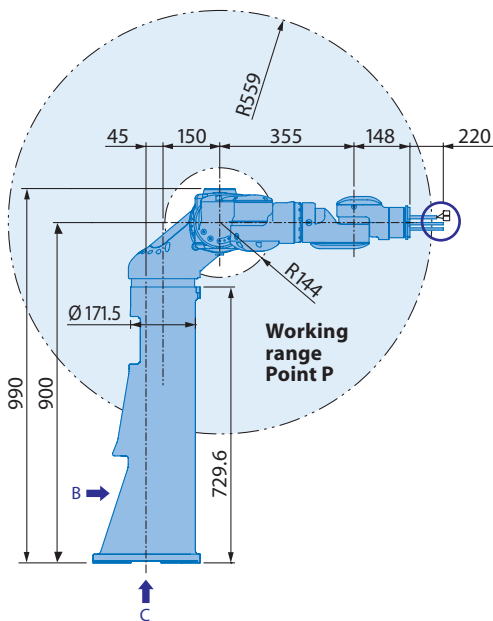


View C

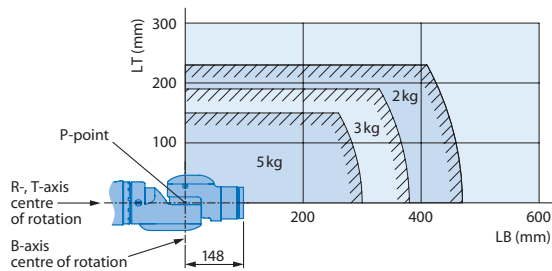


Mounting options: Floor

All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com –YR-SDA005D-A11 IP54/65/67, YR-SDA005F-A00, YR-SDA005F-A11 IP54/65/67, C-04-2014, A-No. 157200

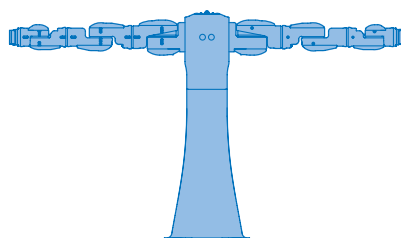
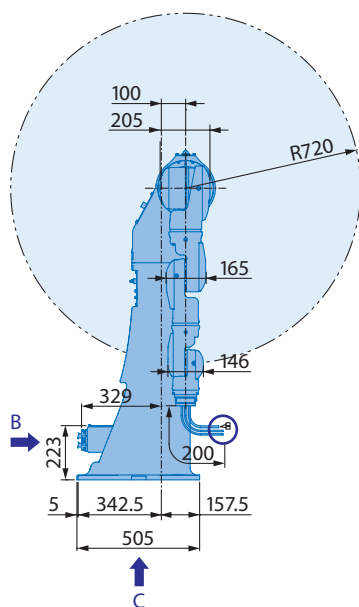
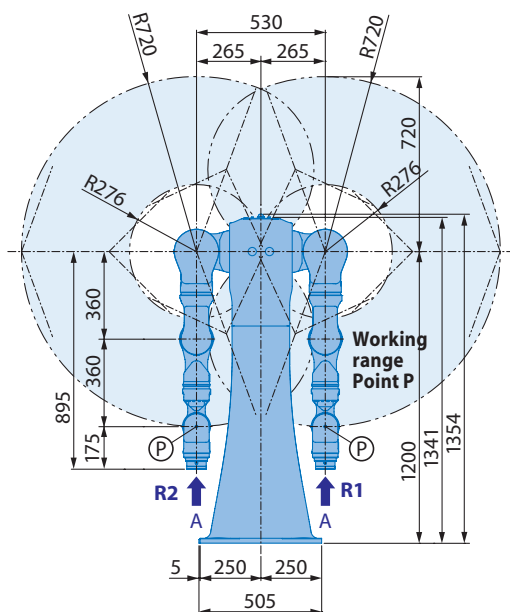


Allowable wrist load

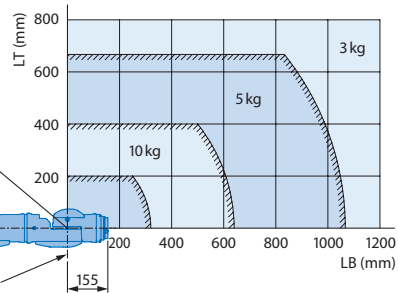


Specifications SDA5F

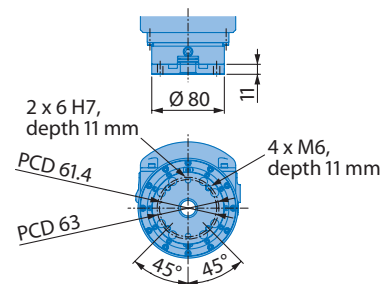
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
Rotation	±170	180	–	–	Max. payload [kg/arm]	5
S	–90/+270	200	–	–	Repeat. pos. accuracy [mm]	±0.06
L	±110	200	–	–	Max. reach [mm]	R = 845/559
θ	±170	200	–	–	Temperature [°C]	0 to +40
U	–90/+115	200	–	–	Humidity [%]	20 – 80
R	±180	200	14.7	0.45	Weight [kg]	110
B	±110	230	14.7	0.45	Power supply, average [KVA]	1.4
T	±180	350	7.35	0.11		



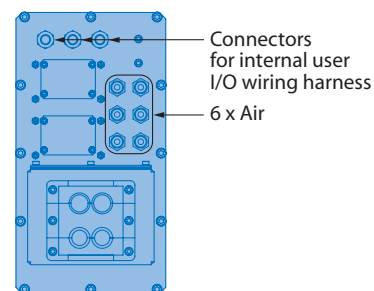
Allowable wrist load



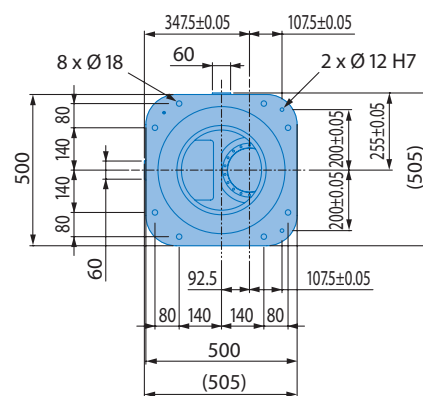
View A



View B



View C



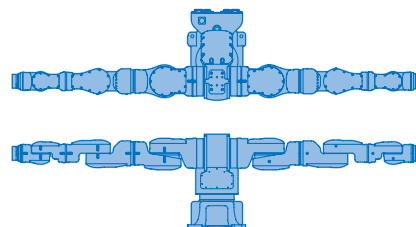
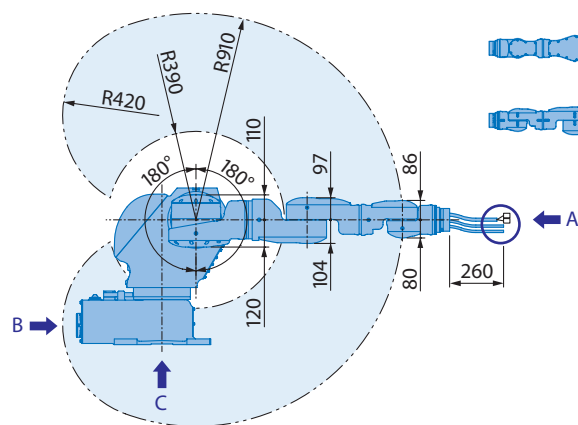
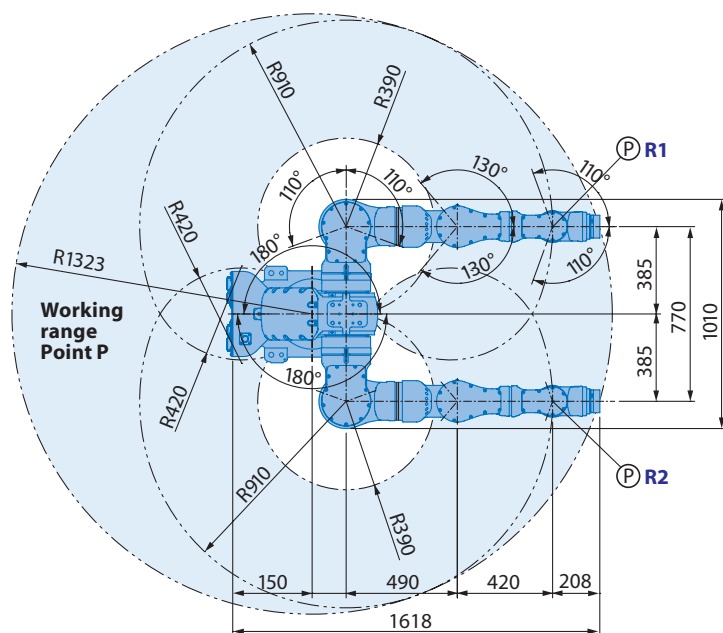
Mounting options: Floor

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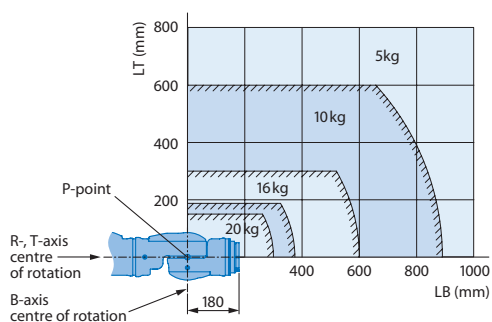


Specifications SDA10D, SDA10F

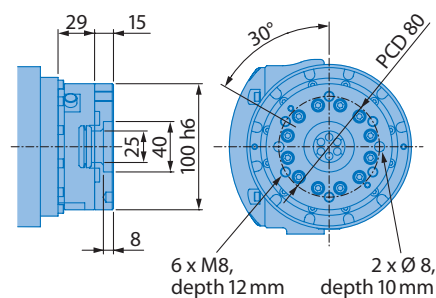
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
Rotation	±170	130	—	—	Max. payload [kg/arm]	10
S	±180	170	—	—	Repeat. pos. accuracy [mm]	±0.1
L	±110	170	—	—	Max. reach [mm]	R = 720/720
θ	±170	170	—	—	Temperature [°C]	0 to +40
U	±135	170	—	—	Humidity [%]	20 – 80
R	±180	200	31.4	1.0	Weight [kg]	220
B	±110	200	31.4	1.0	Power supply, average [KVA]	2.5 SDA10D 1.5 SDA10F
T	±180	400	19.6	0.4		



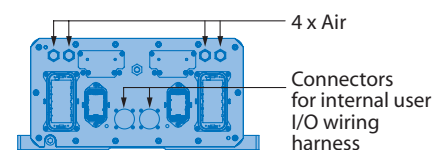
Allowable wrist load



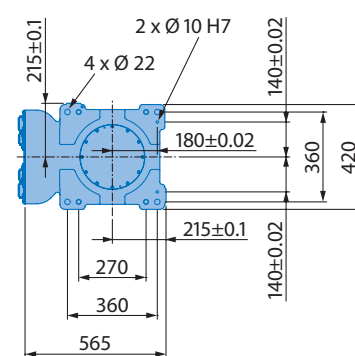
View A



View B



View C



Mounting options: Floor

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Specifications SDA20D, SDA20F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
Rotation	±180	125	—	—	Max. payload [kg/arm]	20
S	±180	130	—	—	Repeat. pos. accuracy [mm]	±0.1
L	±110	130	—	—	Max. reach [mm]	R = 1323/910
θ	±170	170	—	—	Temperature [°C]	0 to +40
U	±130	170	—	—	Humidity [%]	20 – 80
R	±180	200	58.8	4.0	Weight [kg]	380
B	±110	200	58.8	4.0	Power supply, average [KVA]	4.4
T	±180	400	29.4	2.0		



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Flexible Applications with the SDA-series

The SDA-series are slim an agile 15-axis dual-arm robots providing „human-like“ flexibility of movement and fast acceleration. They distinguish themselves through slim and lightweight design. Superior dexterity and best-in-class wrist characteristics make slim, dual-arm robots ideally suited for assembly, part transfer, machine tending, packaging and other handling tasks, that formerly could only be done by people. These all-round robots can be driven by the high performance DX100 controller as well as the FS100 compact controller.

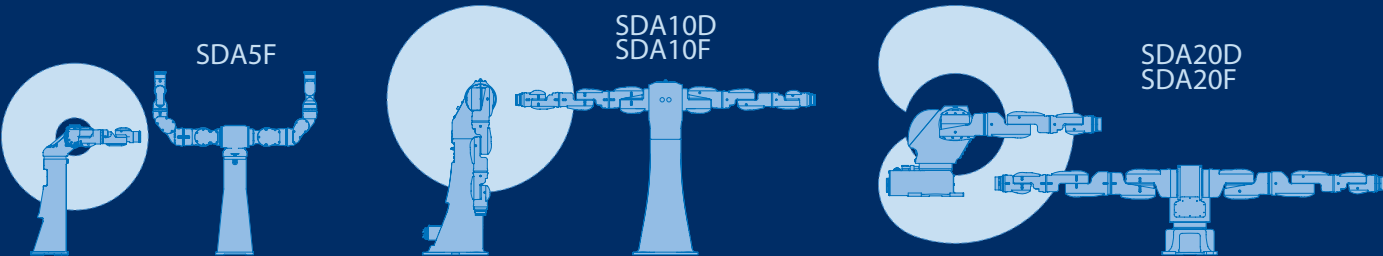
• 15 axes
• Flexible applications
• Compact design allows maximum performance

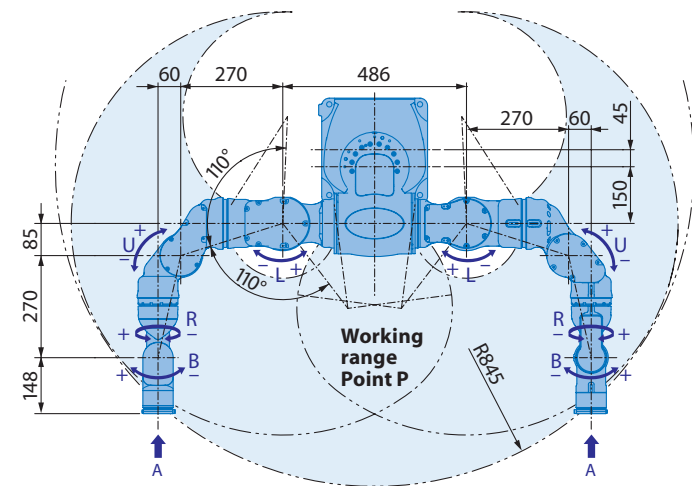


Controlled by
DX100

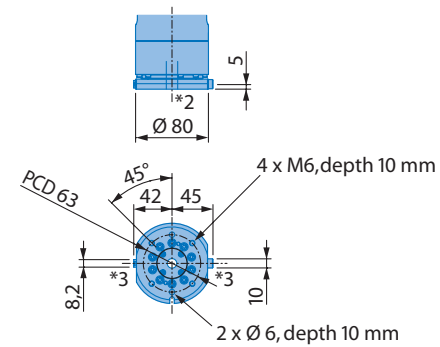
Controlled by
FS100

MOTOMAN SDA-series

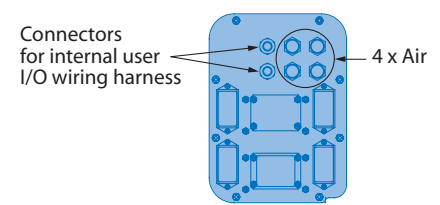




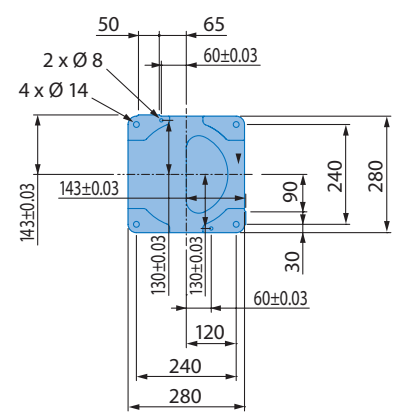
View A



View B



View C

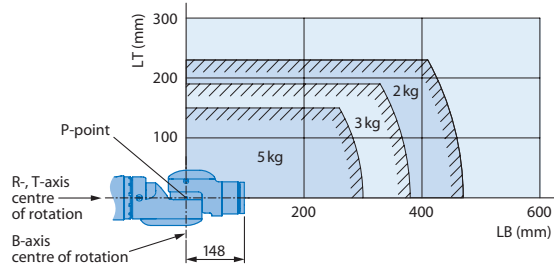


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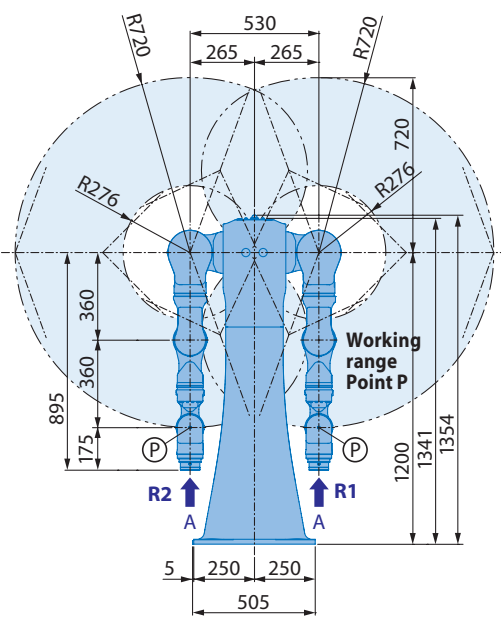


Allowable wrist load

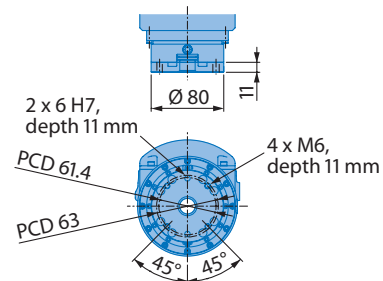


Specifications SDA5F

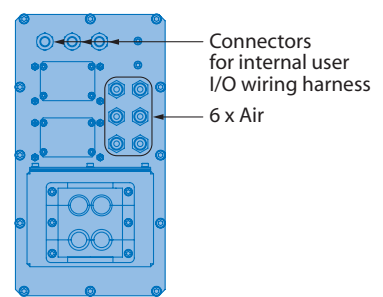
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
					Max. payload [kg/arm]	5
Rotation	±170	180	–	–	Repeat. pos. accuracy [mm]	±0.06
S	–90/+270	200	–	–	Max. reach [mm]	R = 845/559
L	±110	200	–	–	Temperature [°C]	0 to +40
θ	±170	200	–	–	Humidity [%]	20 – 80
U	–90/+115	200	–	–	Weight [kg]	110
R	±180	200	14.7	0.45	Power supply, average [KVA]	1.4
B	±110	230	14.7	0.45		
T	±180	350	7.35	0.11		



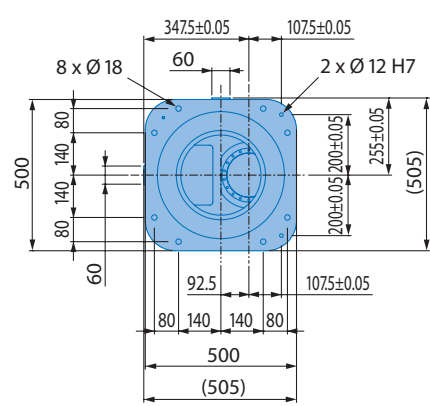
View A



View B



View C

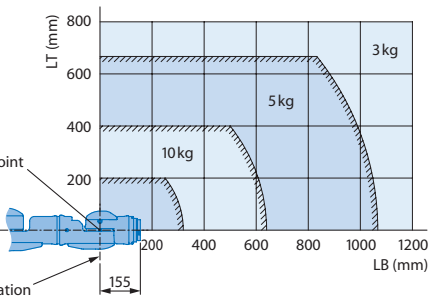


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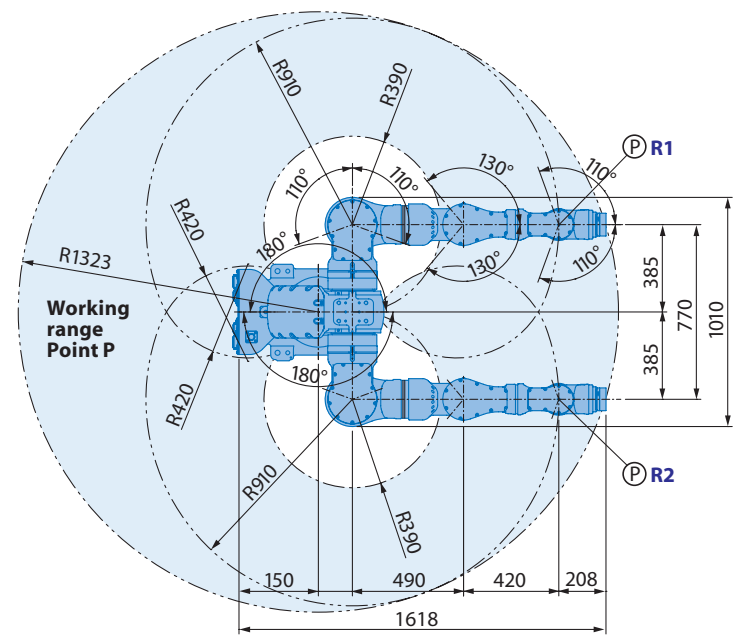


Allowable wrist load

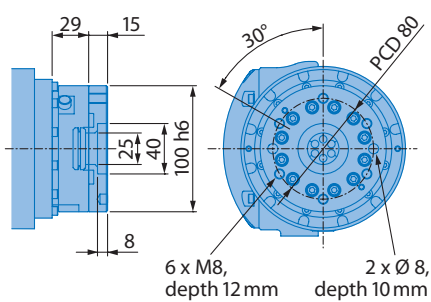


Specifications SDA10D, SDA10F

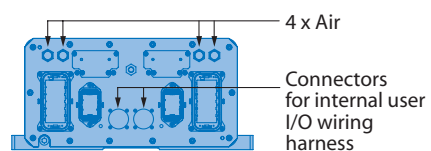
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
					Max. payload [kg/arm]	10
Rotation	±170	130	–	–	Repeat. pos. accuracy [mm]	±0.1
S	±180	170	–	–	Max. reach [mm]	R = 720/720
L	±110	170	–	–	Temperature [°C]	0 to +40
θ	±170	170	–	–	Humidity [%]	20 – 80
U	±135	170	–	–	Weight [kg]	220
R	±180	200	31.4	1.0	Power supply, average [KVA]	2.5 SDA10D 1.5 SDA10F
B	±110	200	31.4	1.0		
T	±180	400	19.6	0.4		



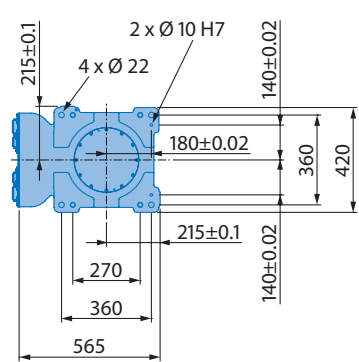
View A



View B



View C

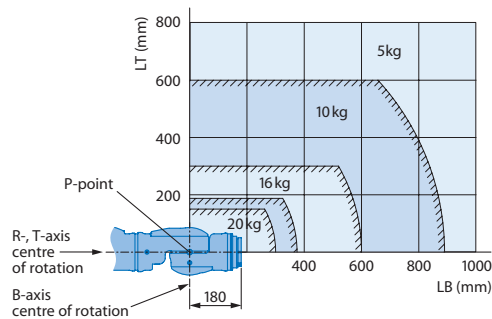


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Allowable wrist load



Specifications SDA20D, SDA20F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	15
					Max. payload [kg/arm]	20
Rotation	±180	125	–	–	Repeat. pos. accuracy [mm]	±0.1
S	±180	130	–	–	Max. reach [mm]	R = 1323/910
L	±110	130	–	–	Temperature [°C]	0 to +40
θ	±170	170	–	–	Humidity [%]	20 – 80
U	±130	170	–	–	Weight [kg]	380
R	±180	200	58.8	4.0	Power supply, average [KVA]	4.4
B	±110	200	58.8	4.0		
T	±180	400	29.4	2.0		