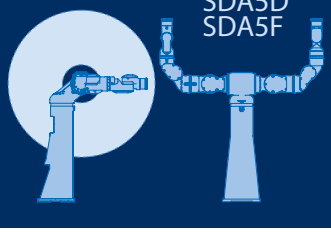
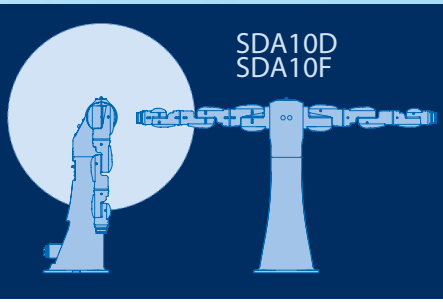
Flexible Applications with the SDA-series

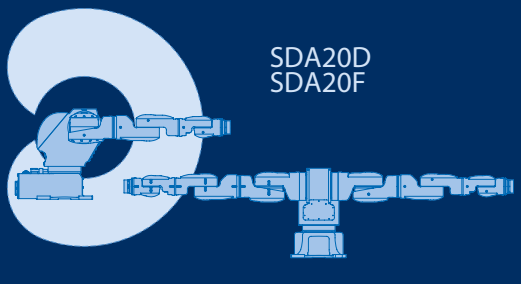
The SDA-series are slim an agile 15-axis dual-arm robots providing „human-like“ flexibility of movement an fast acceleration. They distinguish themselves with slim and lightweight design. Superior dexterity and best-inclass wrist characterisitcs make slim, dual-arm robots ideally suited for assembly,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

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

MOTOMAN SDA-series


SDA5D
SDA5F


SDA10D
SDA10F


SDA20D
SDA20F

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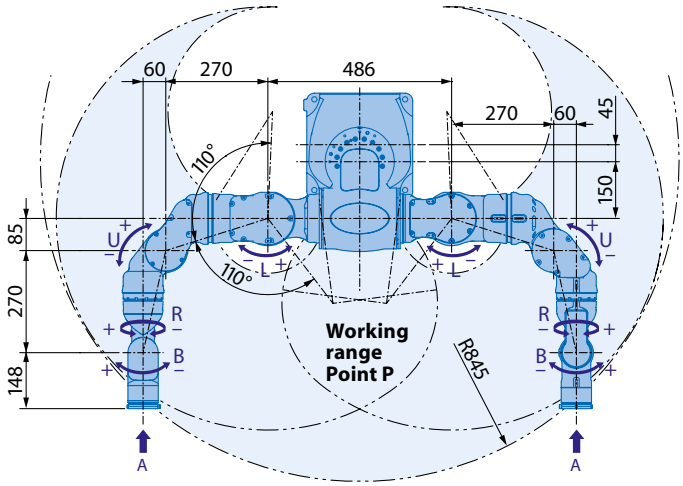
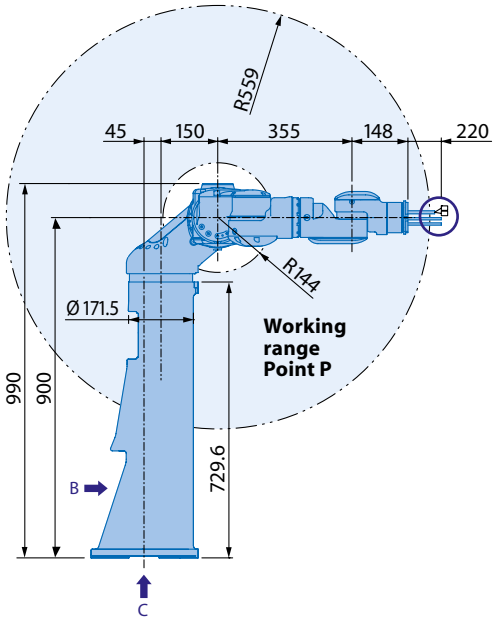
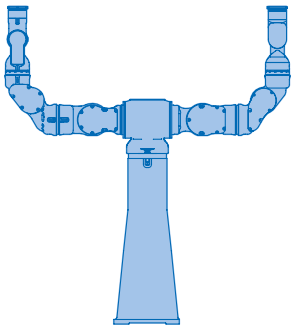
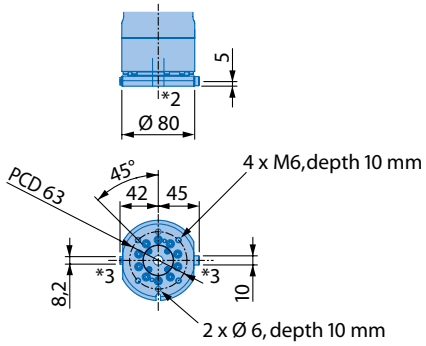
MOTOMAN



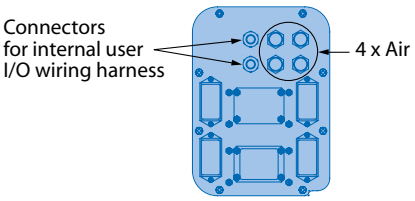




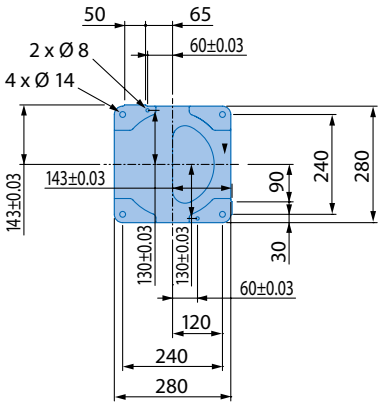
View A



View B

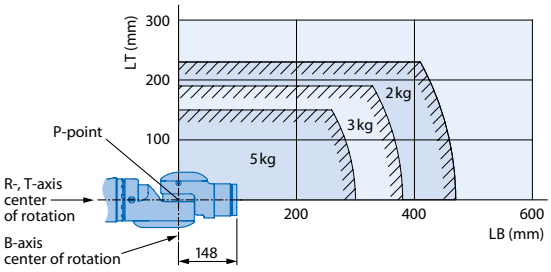


View C



Mounting options: Floor, wall, ceiling

Allowable wrist load



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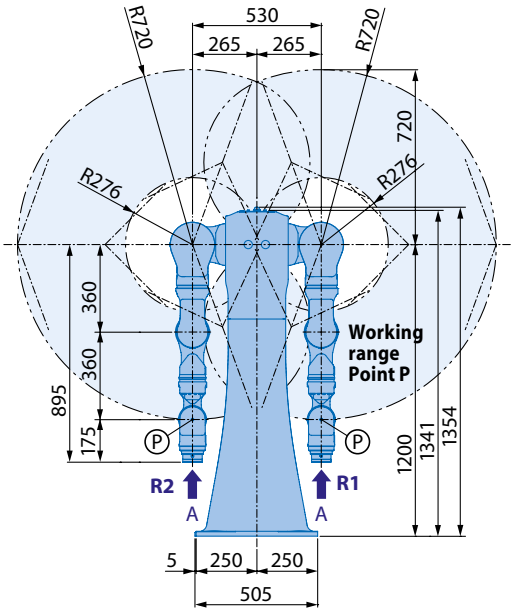
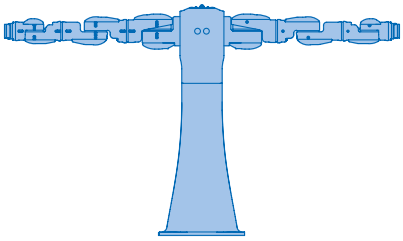
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com –YR-SDA005D-A11 IP54/65/67, YR-SDA005F-A00, YR-SDA005F-A11 IP54/65/67, B-07-2012, A-No. 157200

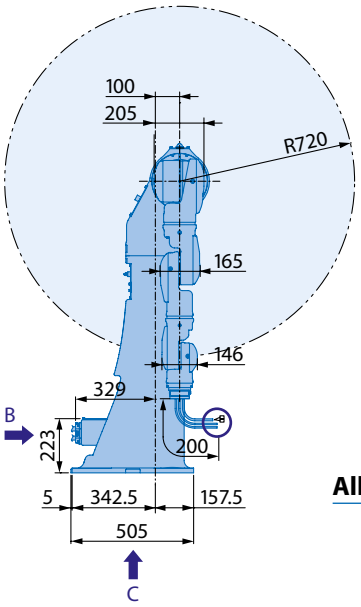
Specifications SDA5D, SDA5F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]
Rotation	±170	180	–	–
S	–90/+270	200	–	–
L	±110	200	–	–
θ	±170	200	–	–
U	–90/+115	200	–	–
R	±180	200	14.7	0.45
B	±110	230	14.7	0.45
T	±180	350	7.35	0.11

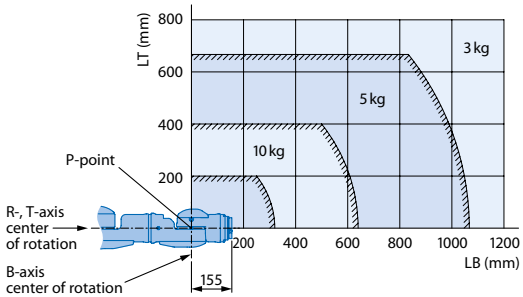
Controlled axes	15
Max. payload [kg/arm]	5
Repeat. pos. accuracy [mm]	±0.06
Max. reach [mm]	R = 854/559
Temperature [°C]	0 to +40
Humidity [%]	20 – 80
Weight [kg]	110
Power supply, average [KVA]	1.4



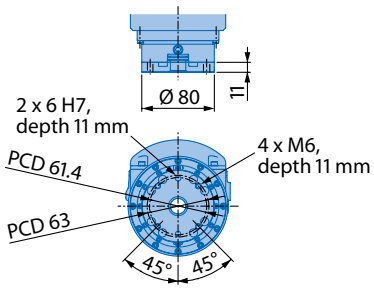




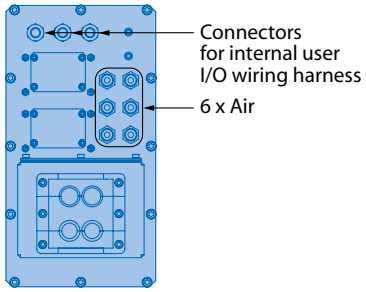
Allowable wrist load



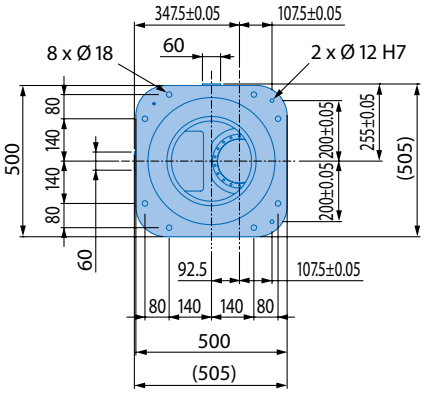
View A



View B



View C



Mounting options: Floor, wall, ceiling

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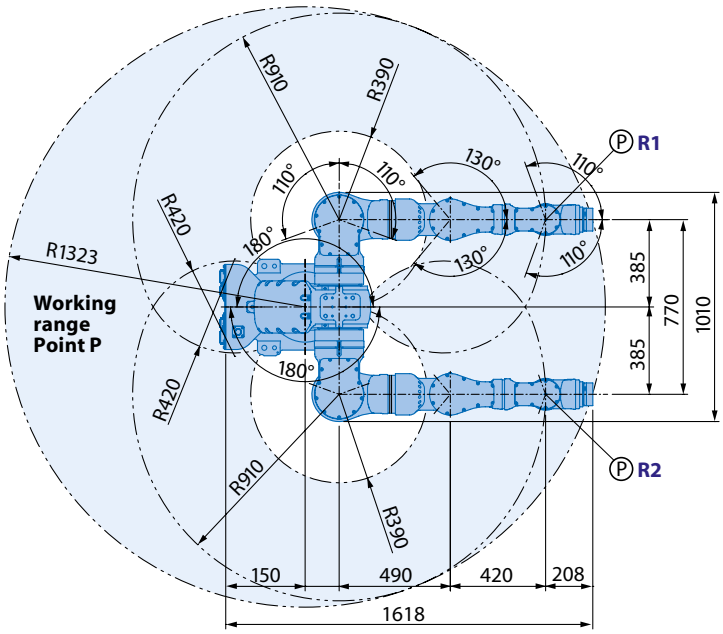
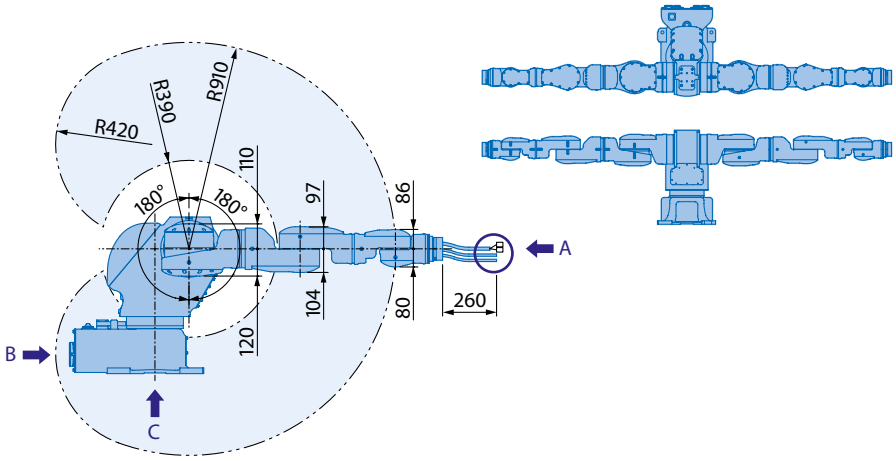
Specifications SDA10D, SDA10F

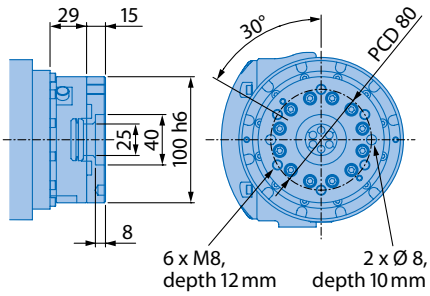
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]
Rotation	±170	130	–	–
S	±180	170	–	–
L	±110	170	–	–
θ	±170	170	–	–
U	±135	170	–	–
R	±180	200	31.4	1.0
B	±110	200	31.4	1.0
T	±180	400	19.6	0.4

Controlled axes	15
Max. payload [kg/arm]	5
Repeat. pos. accuracy [mm]	±0.1
Max. reach [mm]	R = 720/720
Temperature [°C]	0 to +40
Humidity [%]	20 – 80
Weight [kg]	220
Power supply, average [KVA]	2.5 SDA10D 1.5 SDA10F

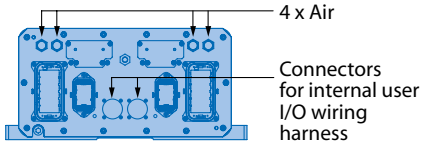




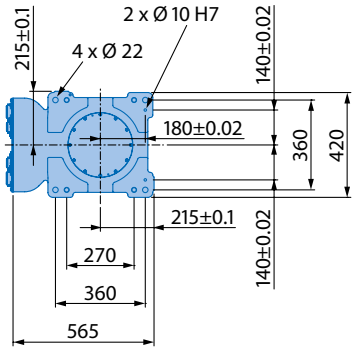
View A



View B

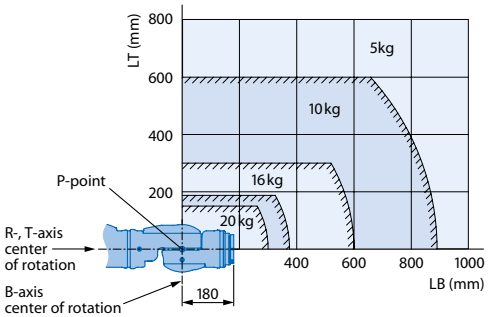


View C



Mounting options: Floor, wall, ceiling

Allowable wrist load



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Specifications SDA20D, SDA20F

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]
Rotation	±180	125	–	–
S	±180	130	–	–
L	±110	130	–	–
θ	±170	170	–	–
U	±130	170	–	–
R	±180	200	58.8	4.0
B	±110	200	58.8	4.0
T	±180	400	29.4	2.0

Controlled axes	15
Max. payload [kg/arm]	20
Repeat. pos. accuracy [mm]	±0.1
Max. reach [mm]	R = 1323/910
Temperature [°C]	0 to +40
Humidity [%]	20 – 80
Weight [kg]	380
Power supply, average [KVA]	4.4

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