

YASKAWA

MOTOMAN EPX-SERIES

Painting with the EPX-series

The MOTOMAN EPX-series are versatile, high-speed 6 axis robots offering superior performance in painting applications for car bodies, plastic components and work pieces of different sizes.

These robots feature a hollow wrist, which reduces cycle times and offers optimum accessibility.

Furthermore, whilst the working envelope is relatively large, the installation only requires little space.

In a smooth workflow even and smooth surfaces are produced with high speed and unique efficiency.

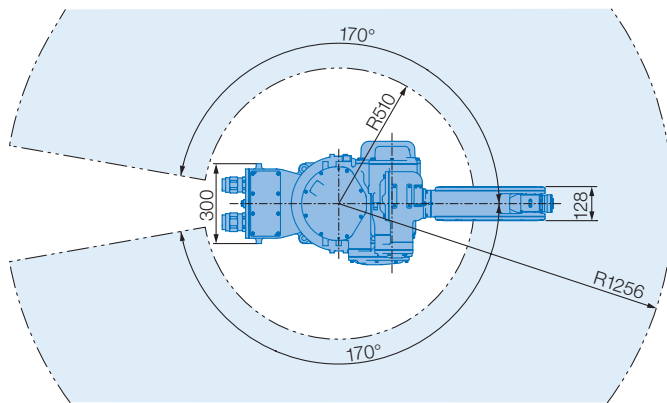
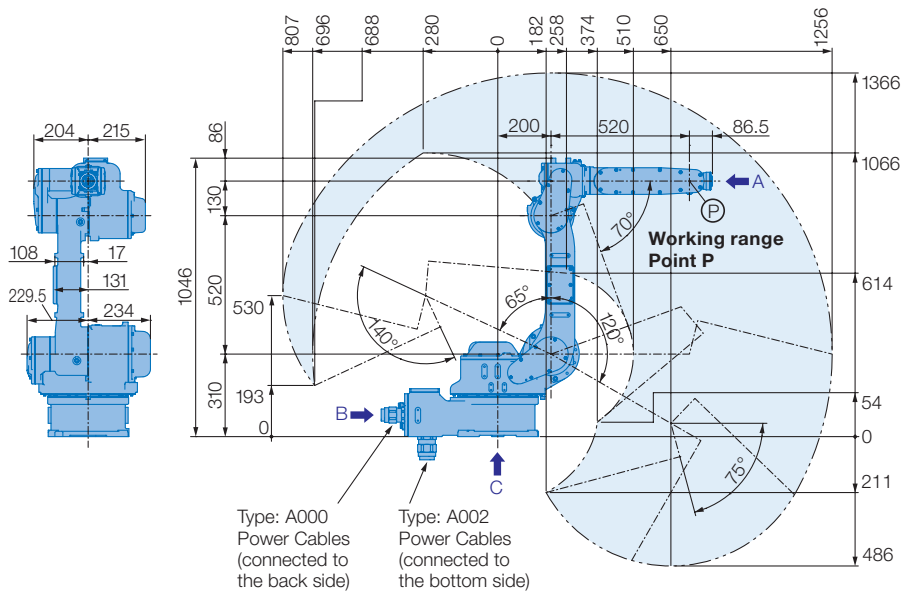


KEY BENEFITS

- Versatile, fast and flexible
- Perfect accessibility
- Large working range
- Variable payload
- Unique efficiency

Controlled by
NX100

MOTOMAN EPX1250



Protection level:

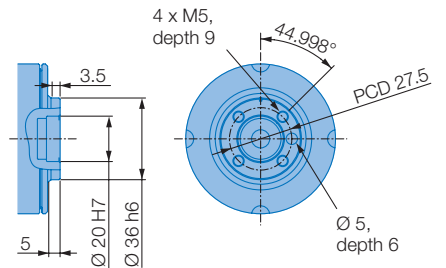


II2G Ex px IIC T4 Gb
II2D Ex p IIIC T135°C Db IP66

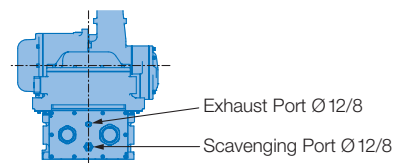


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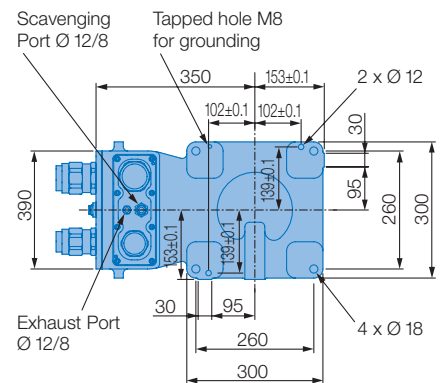
View A



View B



View C



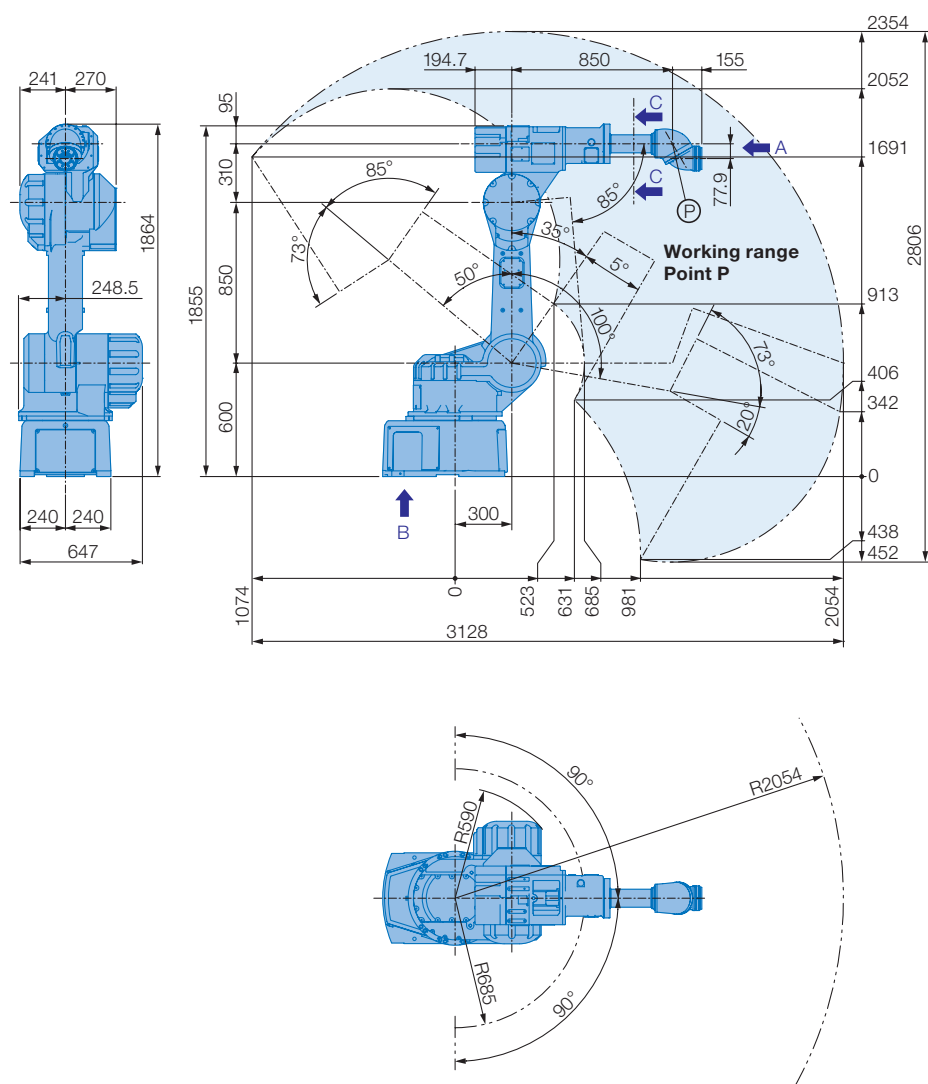
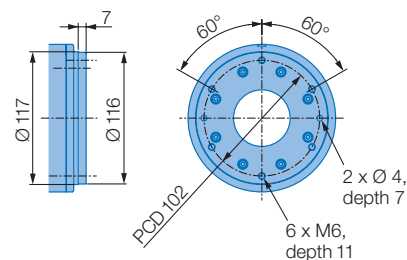
Mounting option: Floor, ceiling, wall

All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu – YR-EPX1250-C00, D-06-2015, A-No. 156797

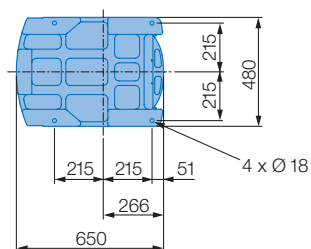


Specifications EPX1250

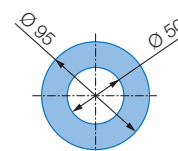
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
					Max. payload [kg]	5
S	± 170	185	–	–	Repeat. pos. accuracy [mm]	±0.15
L	+120/–65	185	–	–	Max. working range R [mm]	1256
U	+205/–165	185	–	–	Temperature [°C]	0 to +40
R	± 190	360	8	0.20	Humidity [%]	20 – 80
B	± 145	410	8	0.20	Weight [kg]	110
T	± 360	500	3	0.07	Power supply, average [KVA]	1.5

**View A**

View B



View C



Mounting option: Floor

Protection level:



II2G Ex px II T4
II2D Ex pD 21 IP66 Tmax 135°C



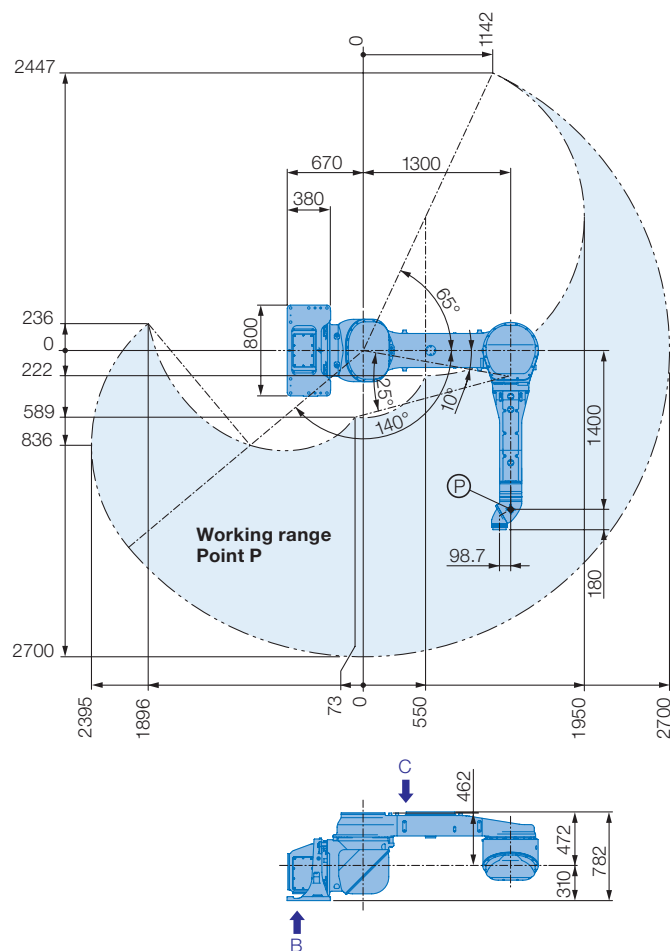
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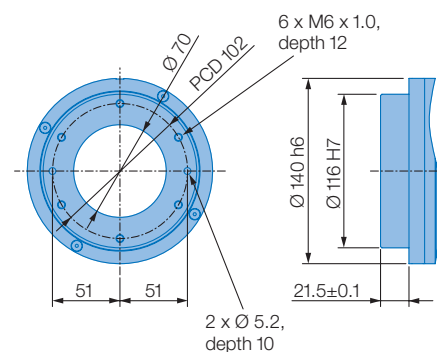
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – YR-EPX2050-C300 (Threeroll), YR-EPX2050-C50 (Hollow), D-06-2015, A-No. 156797

Axes	Specifications EPX2050					
	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload [kg]	15
S	±90	2 is composite speed of all axis	–	–	Repeat. pos. accuracy [mm]	±0.5
L	+100/–50		–	–	Max. working range R [mm]	2054
U	+5/–163		–	–	Temperature [°C]	0 to +45
R	±360		45.8	1.45	Humidity [%]	20 – 80
B	±360		33.8	0.79	Weight [kg]	540
T	±360		10.8	0.10	Power supply, average [KVA]	5

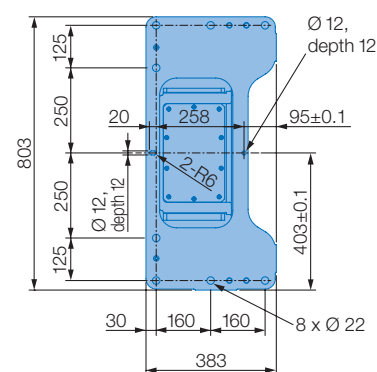
MOTOMAN EPX2700



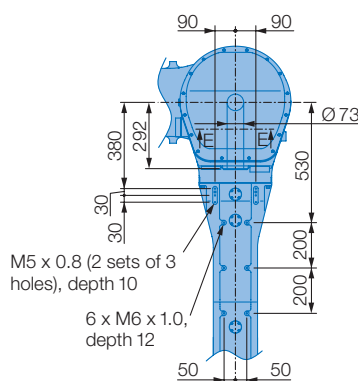
View A



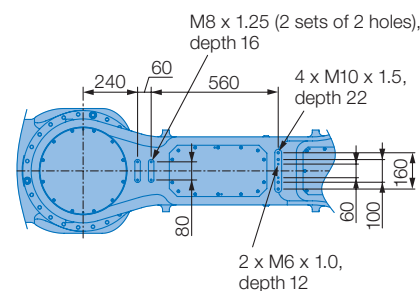
View B



View D



View C



Mounting option: Wall

Protection level:

II2G Ex px IIC T4 Gb
II2D Ex p IIIC T135°C Db IP66

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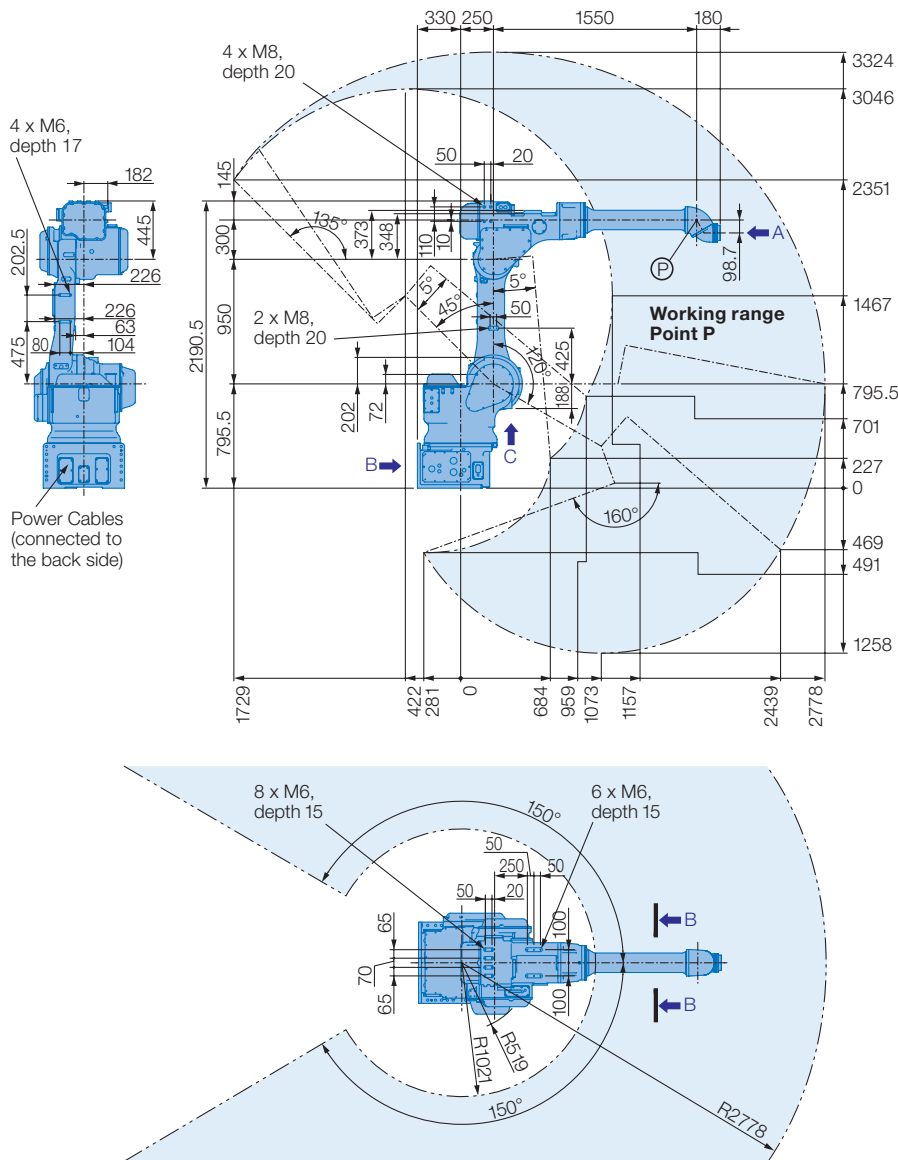


All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu – YR-EPX2700-C00 (left), YR-EPX2700-C10 (right), D-06-2015, A-No. 156797

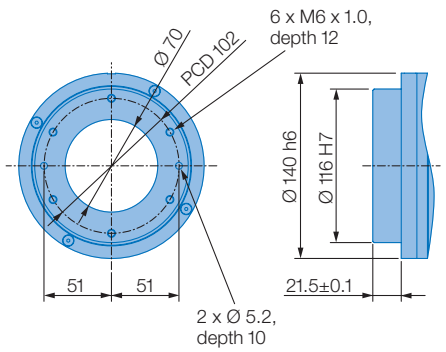
Specifications EPX2700

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
					Max. payload [kg]	15
S	+125/-25	2 is composite speed of all axis	–	–	Repeat. pos. accuracy [mm]	±0.15
L	+140/-65		–	–	Max. working range R [mm]	2700
U	+90/-65		–	–	Temperature [°C]	0 to +40
R	±720		45.8	1.45	Humidity [%]	20 – 80
B	±720		33.8	0.79	Weight [kg]	590
T	±720		10.8	0.10	Power supply, average [KVA]	5

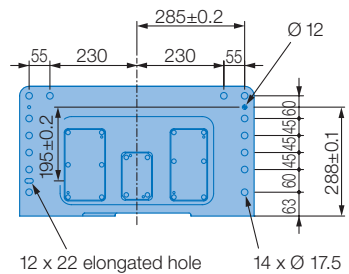
MOTOMAN EPX2800



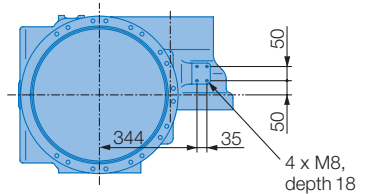
View A



View B



View C



Mounting option: Floor

Protection level:



II2G Ex px IIC T4 Gb
II2D Ex p IIC T135°C Db IP66



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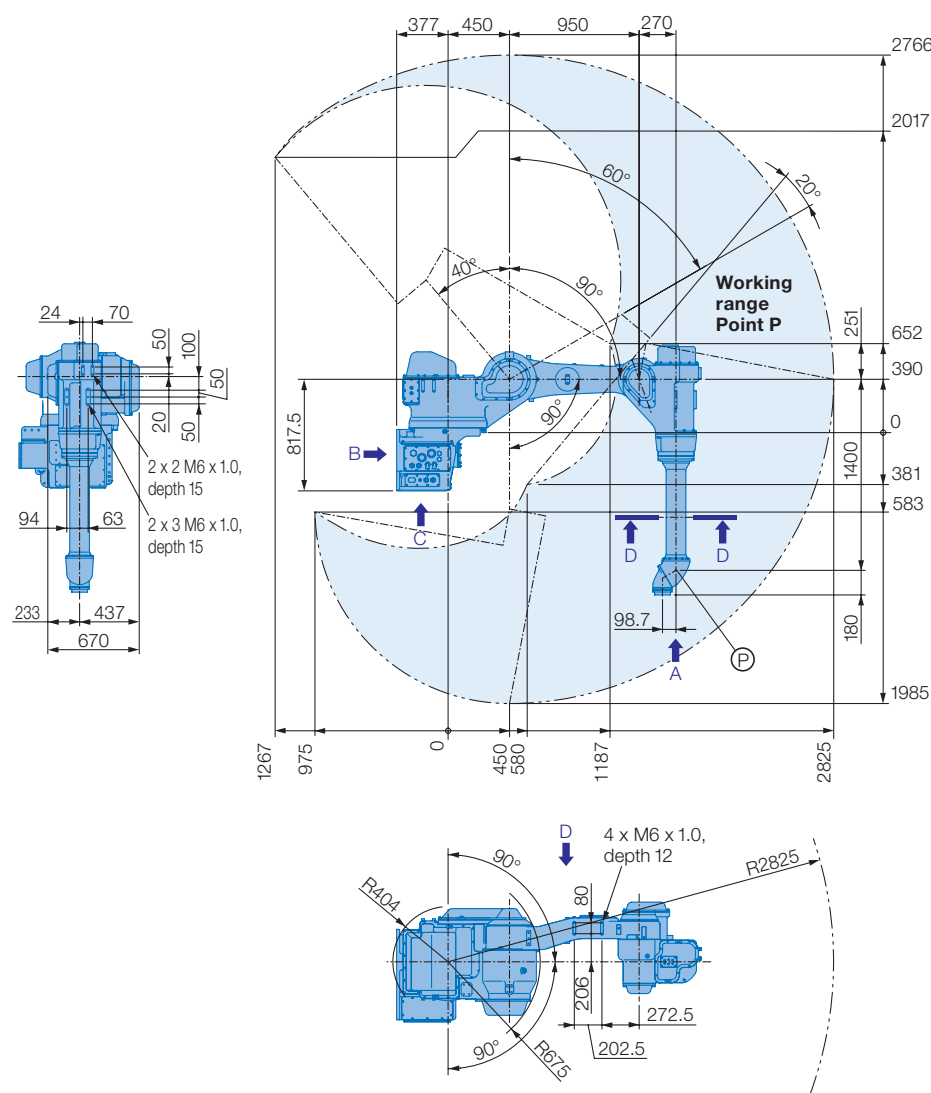
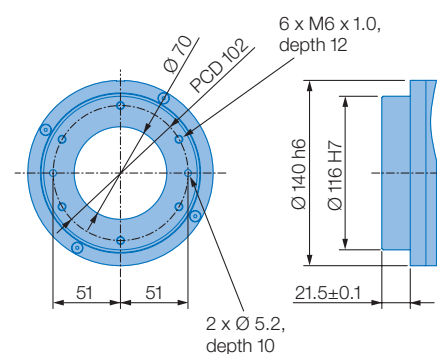


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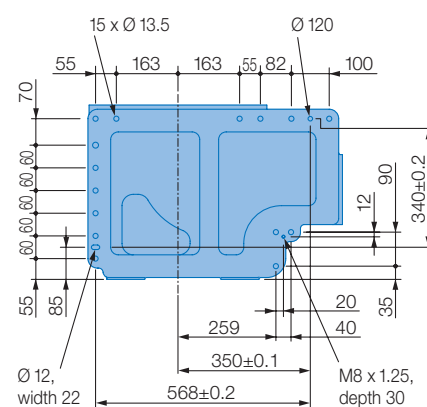
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu – YR-EPX2800-C00, D-06-2015, A-No. 156797

Specifications EPX2800

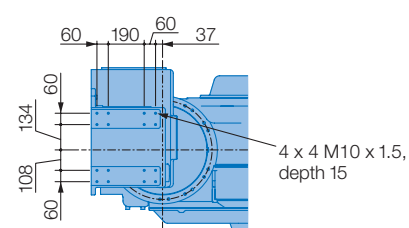
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
					Max. payload [kg]	20
S	± 150	2 is composite speed of all axis	–	–	Repeat. pos. accuracy [mm]	± 0.5
L	+ 120/– 45		–	–	Max. working range R [mm]	2778
U	+ 90/– 85		–	–	Temperature [°C]	0 to + 40
R	± 360		77.4	2.45	Humidity [%]	20 – 80
B	± 360		49.9	1.20	Weight [kg]	650
T	± 360		16.6	0.20	Power supply, average [KVA]	5

**View A**

View B



View C



Mounting option: Wall

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without previous notice | Please request detailed drawings
at robotics@yaskawa.eu.com –
YR-EPX2800R-C00, D-06-2015, A-No. 156797

Protection level:



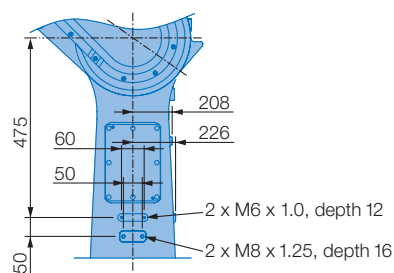
II2G Ex px II T4
II2D Ex pD 21 Tmax 135°C



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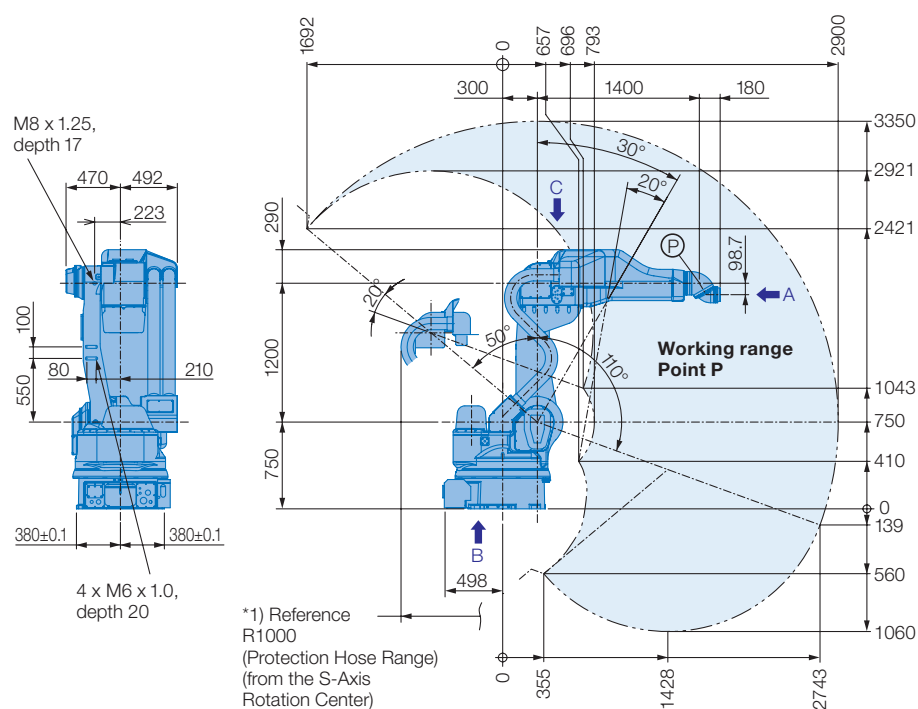


View D

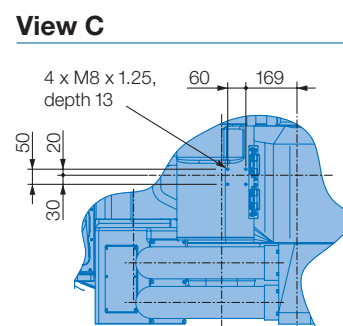
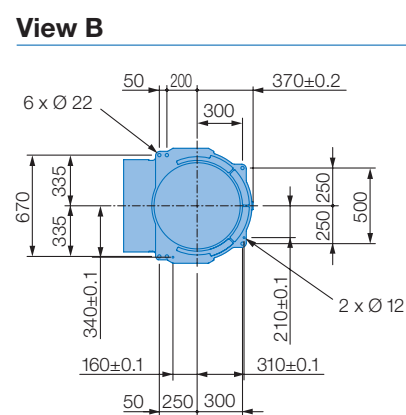
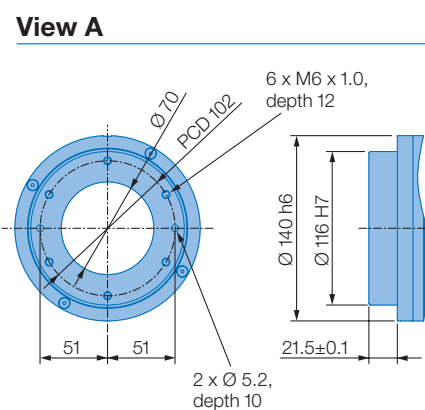
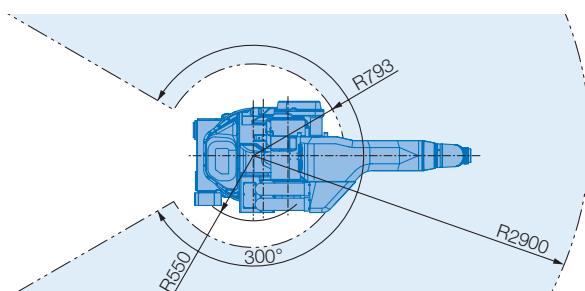


Specifications EPX800R

Axes	Specifications EPX800R					
	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload [kg]	15
S	±120	2 is composite speed of all axis	–	–	Repeat. pos. accuracy [mm]	±0.5
L	+90/–130		–	–	Max. working range R [mm]	2825
U	+90/–70		–	–	Temperature [°C]	0 to +45
R	±360		45.8	1.45	Humidity [%]	20 – 80
B	±360		33.8	0.79	Weight [kg]	820
T	±360		10.8	0.10	Power supply, average [KVA]	5



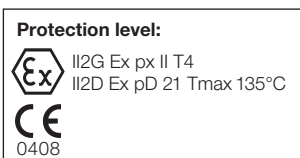
*1. Protection hose interference range is different according to customer's condition.



Mounting option: Floor

Mounting option: 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-EPX2900-C00, D-06-2015, A-No. 156797



Specifications EPX2900

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload [kg]	20
S	±150	155	–	–	Repeat. pos. accuracy [mm]	±0.5
L	+110/–50	125	–	–	Max. working range R [mm]	2900
U	+90/–70	155	–	–	Temperature [°C]	0 to +45
R	±360	450	72.0	–	Humidity [%]	20 – 80
B	±360	550	51.5	–	Weight [kg]	1030
T	±360	650	19.6	–	Power supply, average [KVA]	5

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