

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.

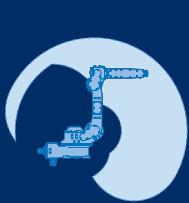
Furthermore, whilst the working envelope is relatively large, the installation only requires little space.

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

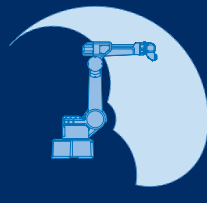


- *Versatile, fast and flexible*
- *Perfect accessibility*
- *Large working range*
- *Variable payload*
- *Unique efficiency*

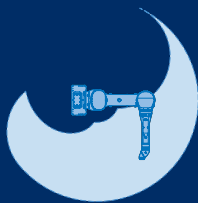
MOTOMAN EPX-series



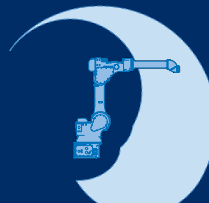
EPX1250



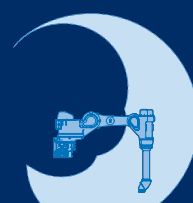
EPX2050



EPX2700



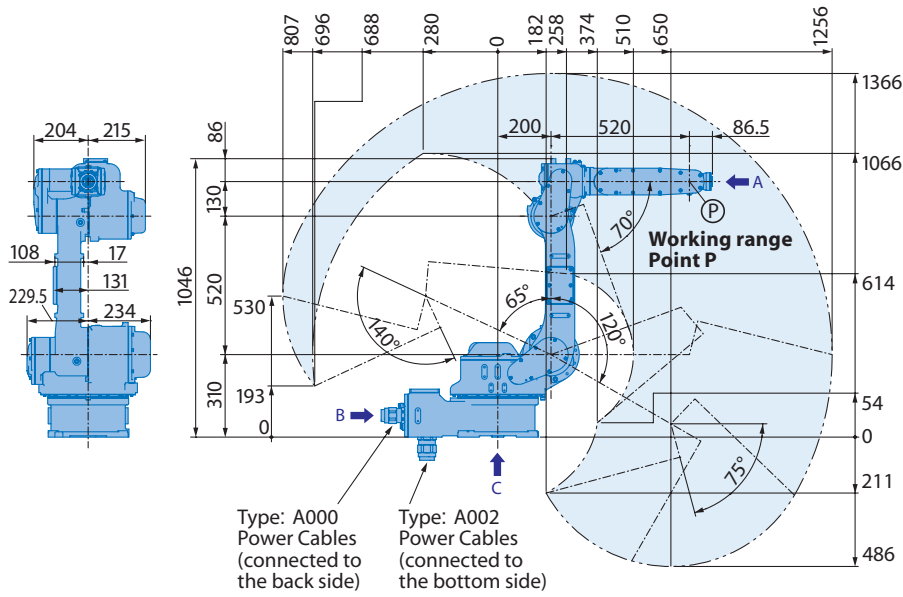
EPX2800



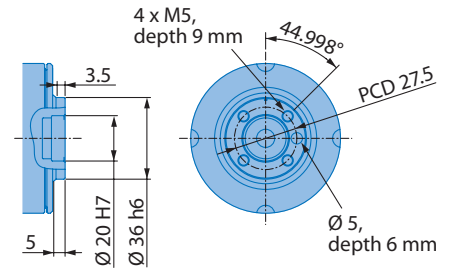
EPX2800R



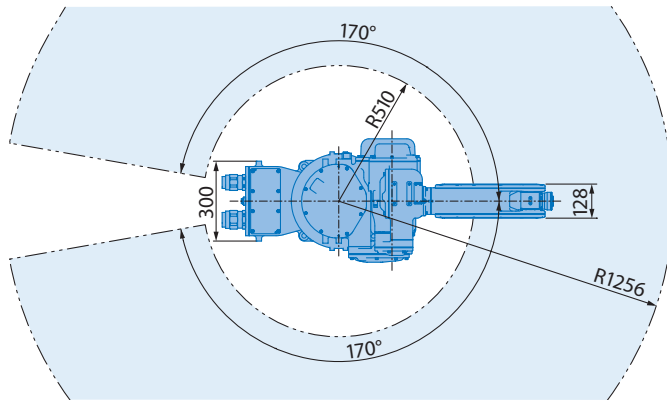
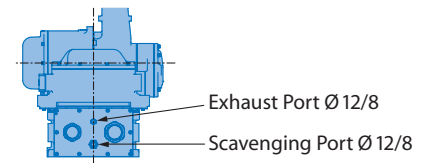
EPX2900



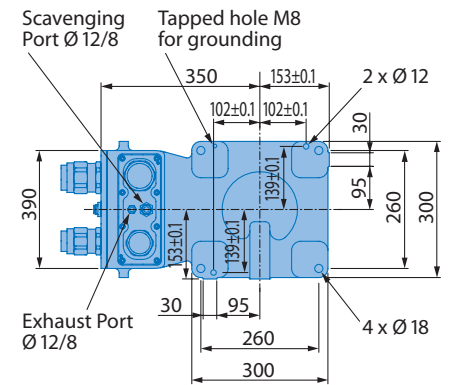
View A



View B





View C



Mounting option: Floor, ceiling, wall

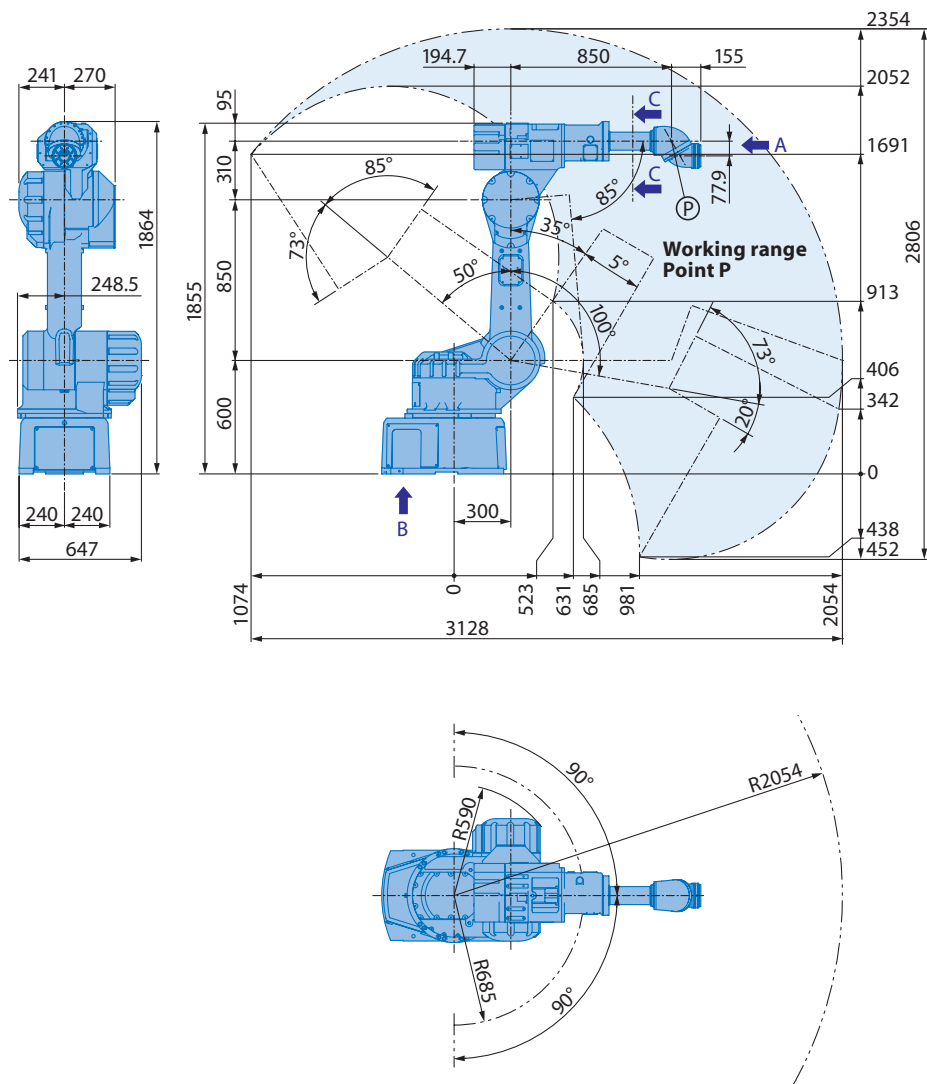
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – B-07-2013, A-No. 156797



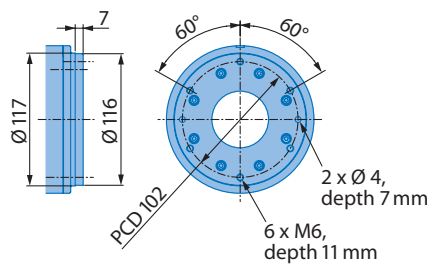
Protection level:
 II2G Ex px IIC T4 Gb
 II2D Ex p IIIC T135°C Db IP66

 0408

Specifications EPX1250

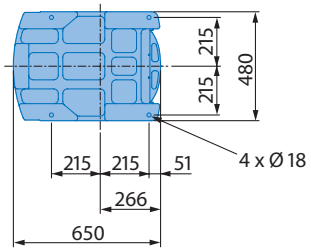
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±170	185	-	-	Max. payload [kg]	6
L	+120/-65	185	-	-	Repeat. pos. accuracy [mm]	5
U	+205/-165	185	-	-	Max. working range [mm]	±0.15
R	±190	360	8	0.20	Temperature [°C]	R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



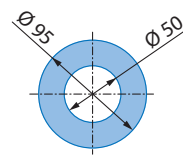
View A



View B



View C



Mounting option: Floor

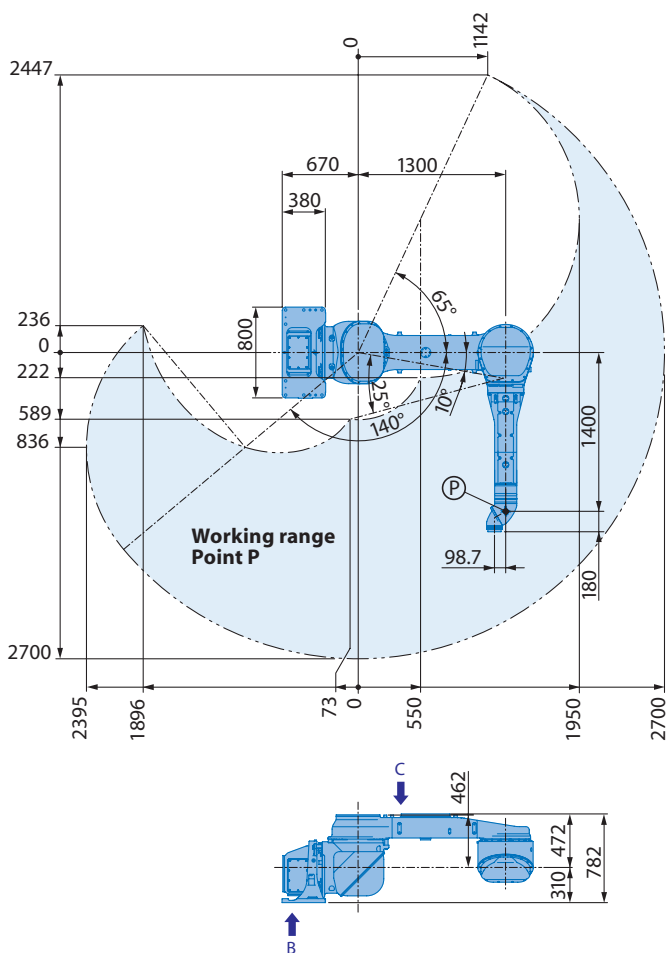
Protection level:
 Ex II 2G Ex px II T4
 II 2D Ex pD 21 IP66 Tmax 135°C
 CE 0408



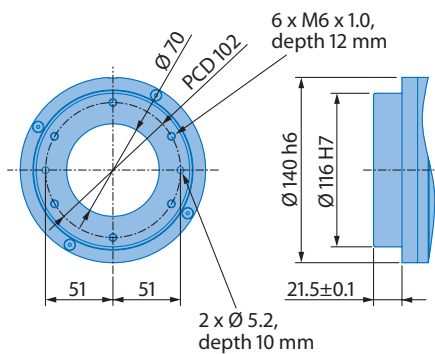
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – B-07-2013, A-No. 156797

Specifications EPX2050

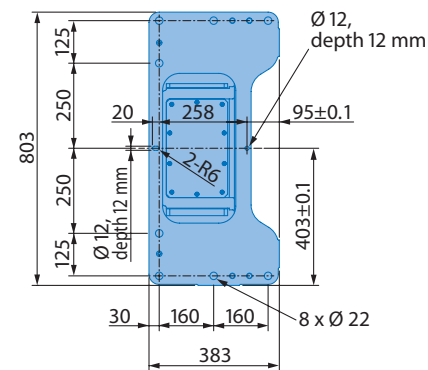
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±90	2	-	-	Max. payload [kg]	6
L	+100/-50	is composite speed of all axis	-	-	Repeat. pos. accuracy [mm]	15
U	+5/-163		-	-	Max. working range [mm]	±0.5
R	±360	45.8	1.45	Temperature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



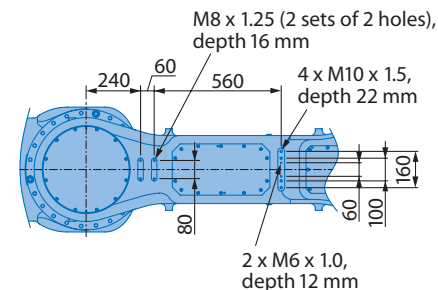
View A



View B

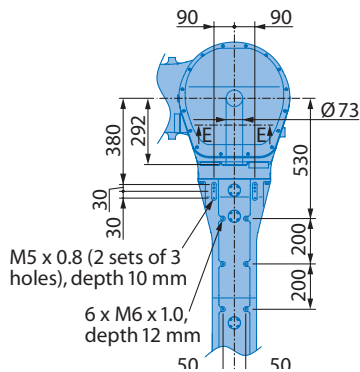


View C



Mounting option: Wall

View D



Protection level:

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



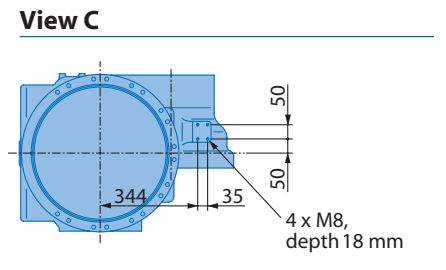
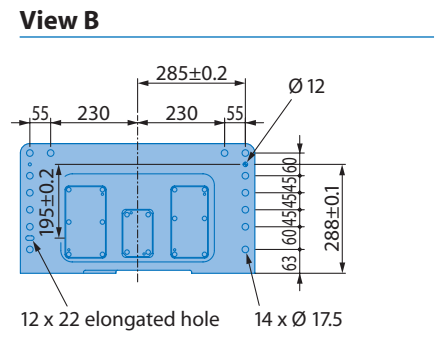
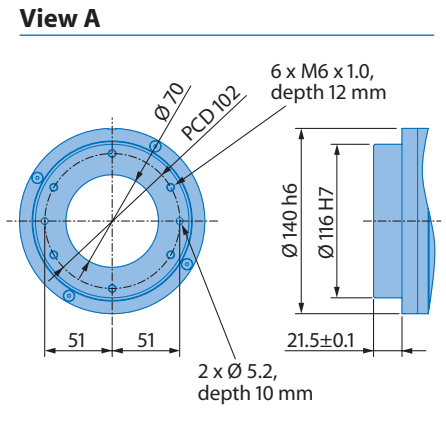
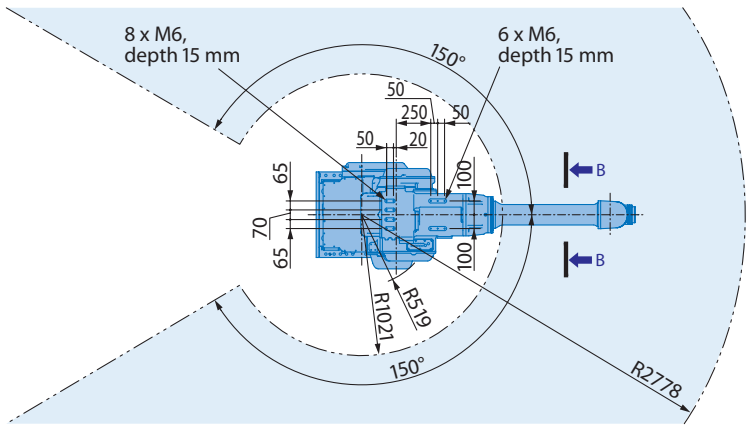
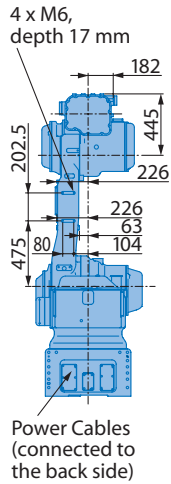
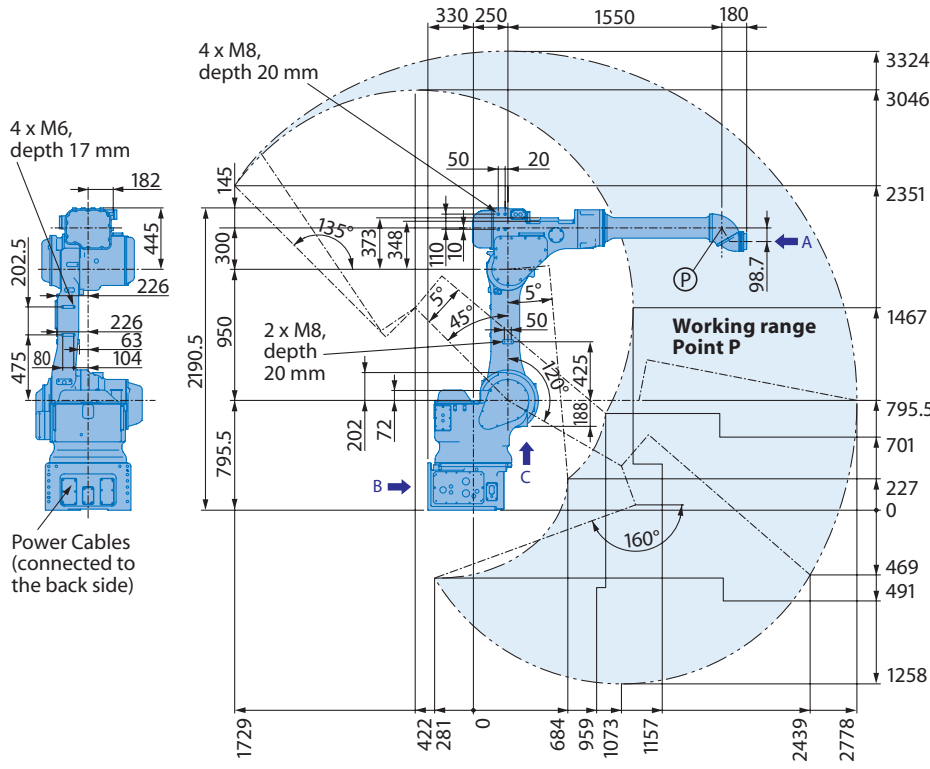
0408



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Specifications EPX2700

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



Mounting option: Floor

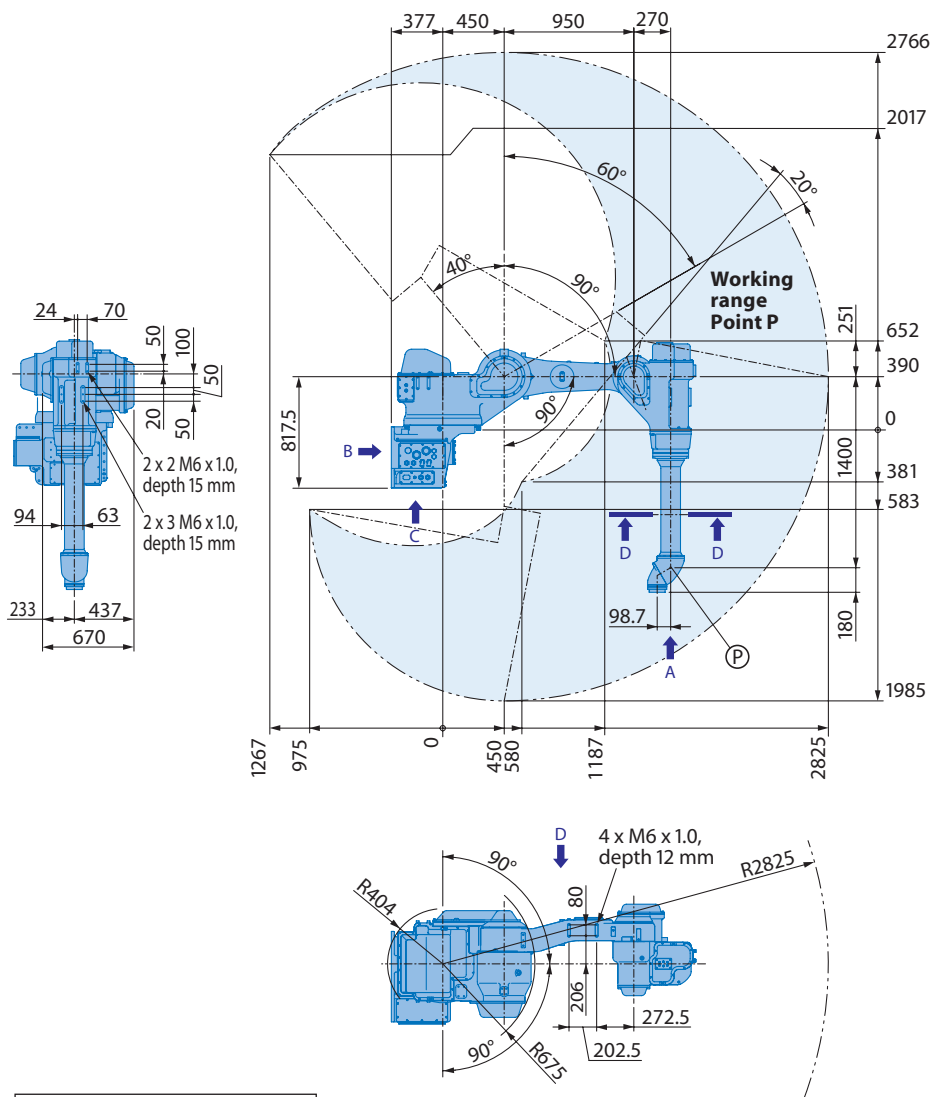


Protection level:
 Ex II2G Ex px IIC T4 Gb
 II2D Ex p IIIC T135°C Db IP66
 CE
 0408

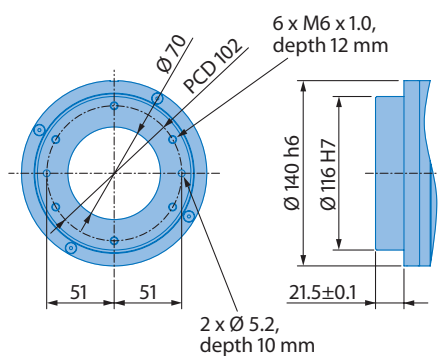
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – B-07-2013, A-No. 156797

Specifications EPX2800

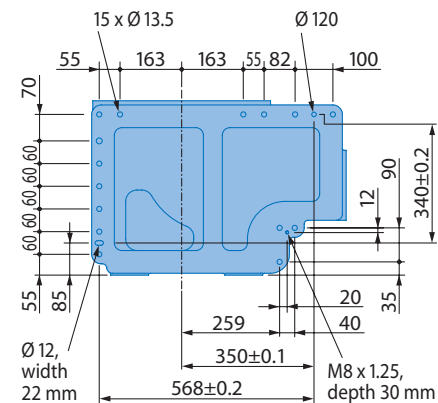
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±150	2	-	-	Max. payload [kg]	6
L	+120/-45	is composite speed of all axis	-	-	Repeat. pos. accuracy [mm]	20
U	+90/-85		-	-	Max. working range [mm]	±0.5
R	±360		77.4	2.45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



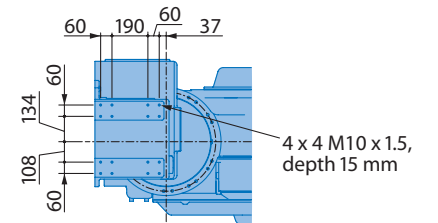
View A



View B



View C



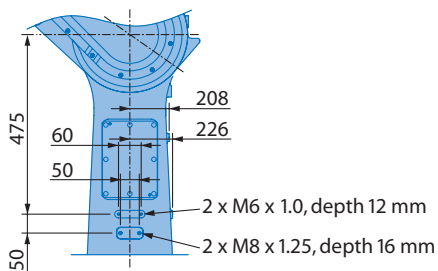
Mounting option: Wall

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Protection level:
 Ex II2G Ex px II T4
 II2D Ex pD 21 Tmax 135°C
 CE 0408

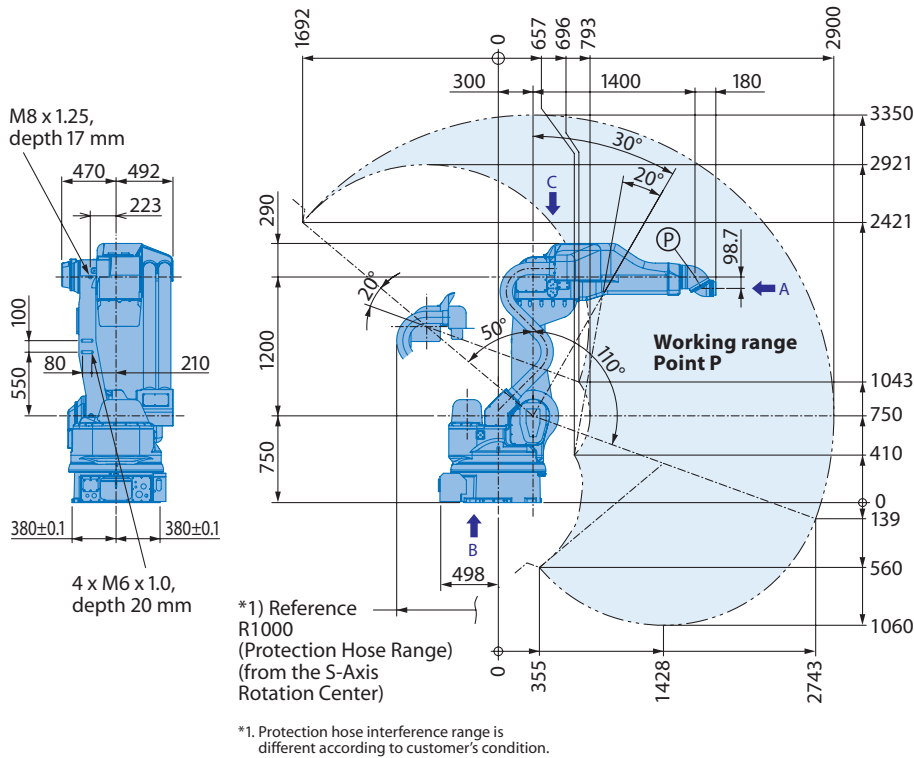


View D

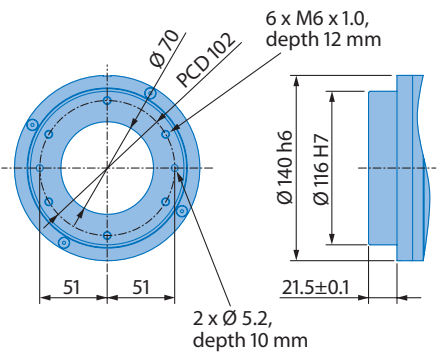


Specifications EPX2800R

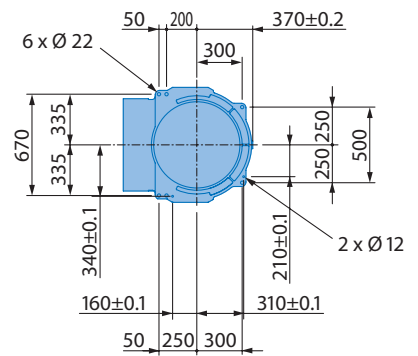
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±120	2	-	-	Max. payload [kg]	6
L	+90/-130	is composite speed of all axis	-	-	Repeat. pos. accuracy [mm]	15
U	+90/-70		-	-	Max. working range [mm]	±0.5
R	±360		45.8	1.45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



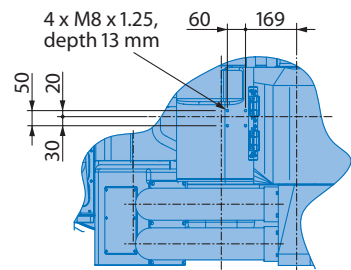
View A



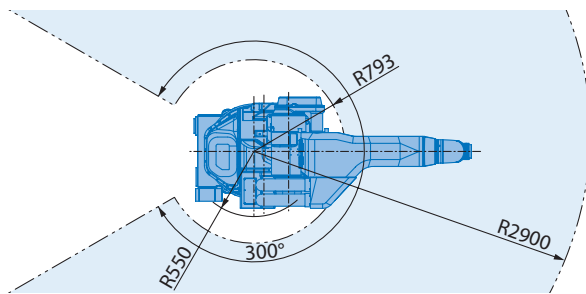
View B





View C



Mounting option: Floor



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

 0408



All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – B-07-2013, A-No. 156797

Specifications EPX2900

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±150	155	-	-	Max. payload [kg]	6
L	+110/-50	125	-	-	Repeat. pos. accuracy [mm]	±0.5
U	+90/-70	155	-	-	Max. working range [mm]	R = 2900
R	±360	450	72.0	-	Temperature [°C]	0 to +45
B	±360	550	51.5	-	Humidity [%]	20 – 80
T	±360	650	19.6	-	Weight [kg]	1030
					Power supply, average [KVA]	5

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