

Controlled by
NX100

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.

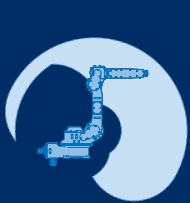
Furthermore, whilst the working envelope is relatively large, the installation only requires little space.

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

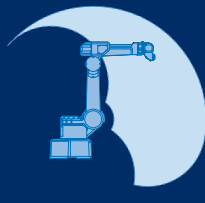


- *Versatile, fast and flexible*
- *Perfect accessibility*
- *Large working range*
- *Variable payload*
- *Unique efficiency*

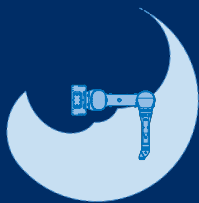
MOTOMAN EPX-series



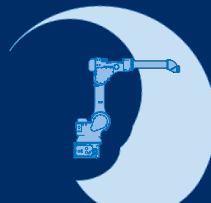
EPX1250



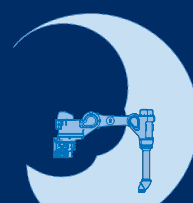
EPX2050



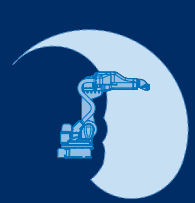
EPX2700



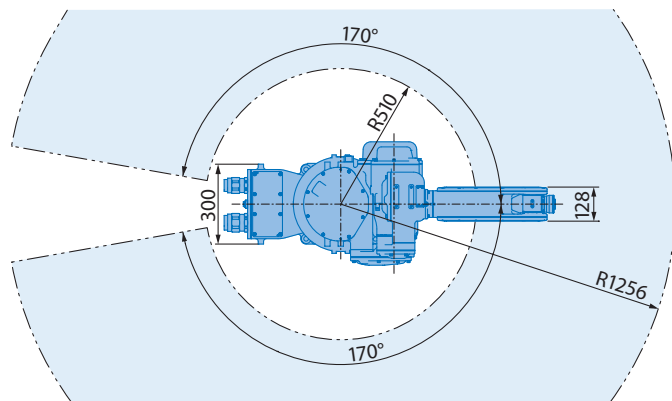
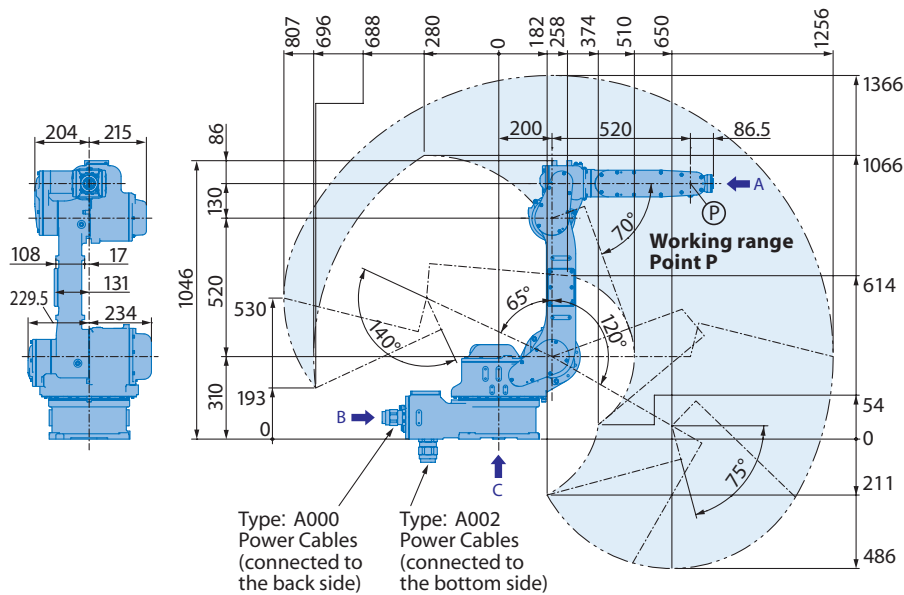
EPX2800



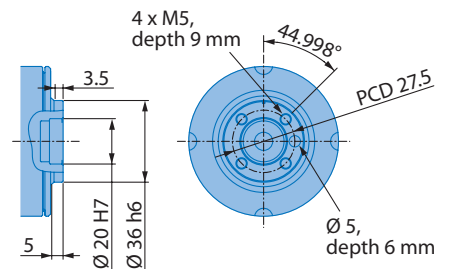
EPX2800R



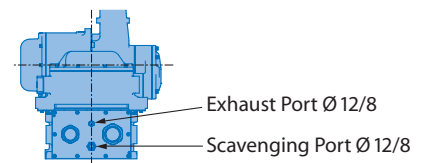
EPX2900



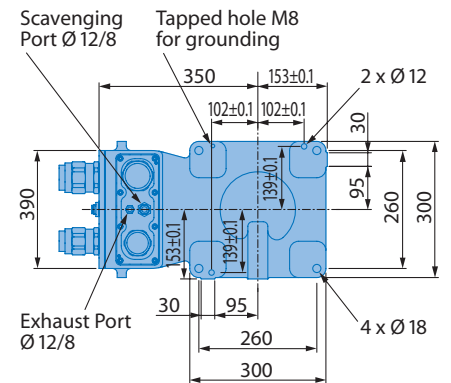
View A



View B



View C



Mounting option: Floor, ceiling, wall

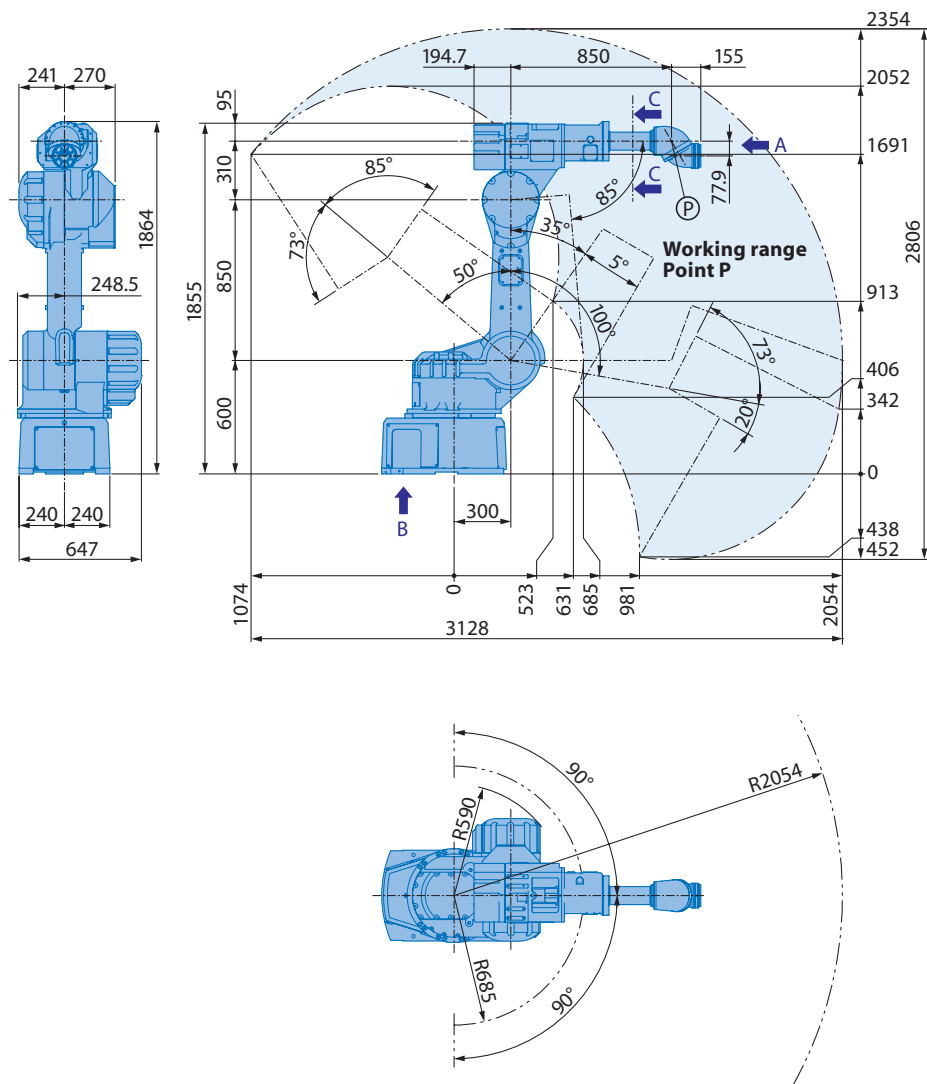
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – C-04-2014, A-No. 156797



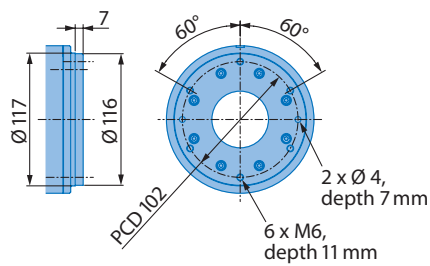
Protection level:
 II2G Ex px IIC T4 Gb
 II2D Ex p IIIC T135°C Db IP66
 0408

Specifications EPX1250

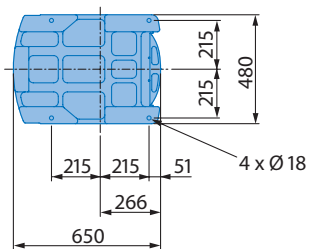
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±170	185	-	-	Max. payload [kg]	6
L	+120/-65	185	-	-	Repeat. pos. accuracy [mm]	5
U	+205/-165	185	-	-	Max. working range [mm]	±0.15
R	±190	360	8	0.20	Temperature [°C]	R = 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



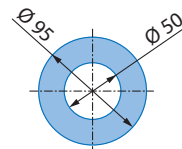
View A



View B



View C



Mounting option: Floor

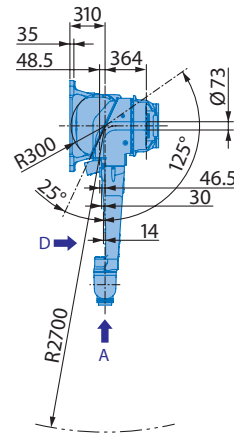
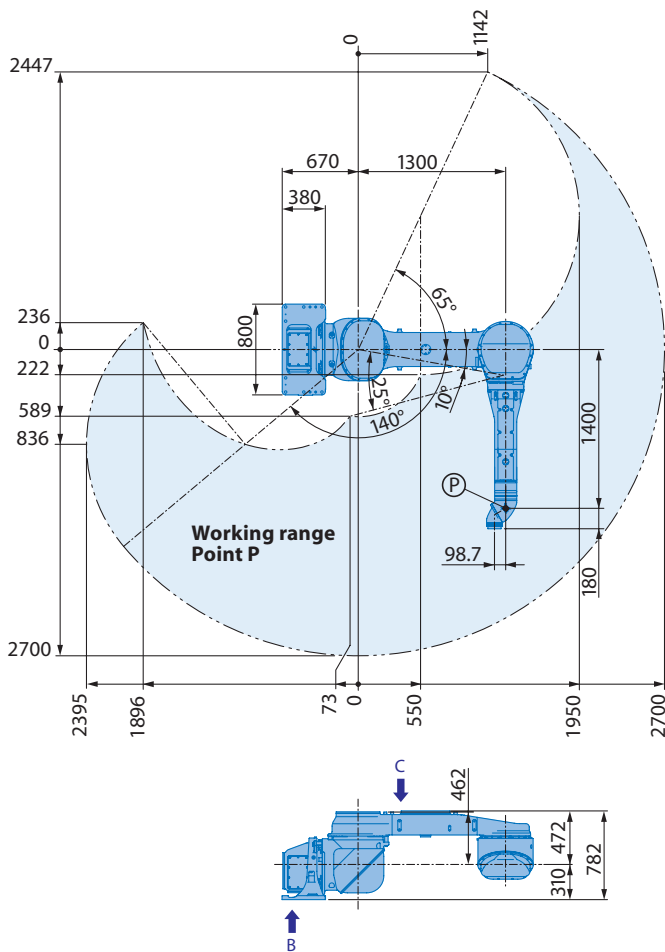
Protection level:
 Ex II 2G Ex px II T4
 II 2D Ex pD 21 IP66 Tmax 135°C
 CE 0408

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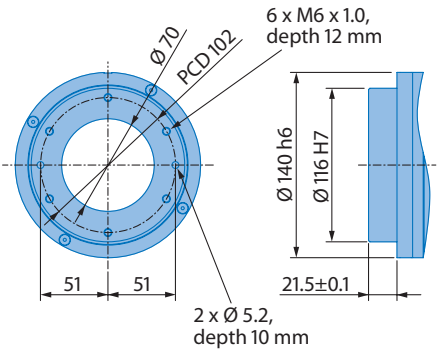
Specifications EPX2050

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]	0 to +45	
B	±360	33.8	0.79	Humidity [%]	20 – 80	
T	±360	10.8	0.10	Weight [kg]	540	
				Power supply, average [KVA]	5	

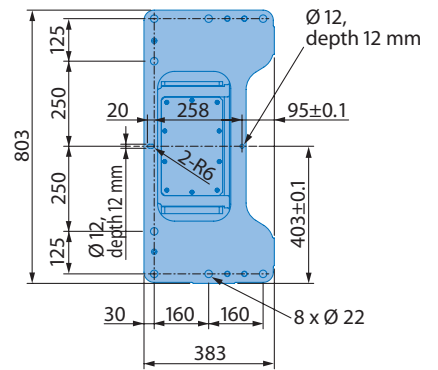




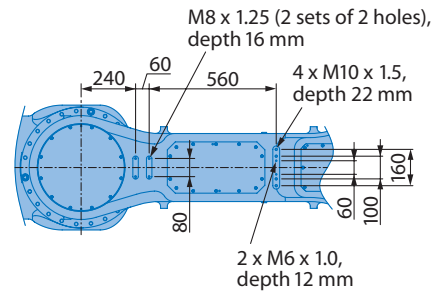
View A



View B

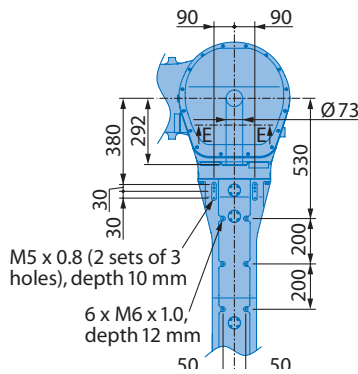


View C



Mounting option: Wall

View D



Protection level:

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



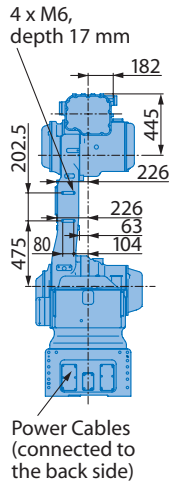
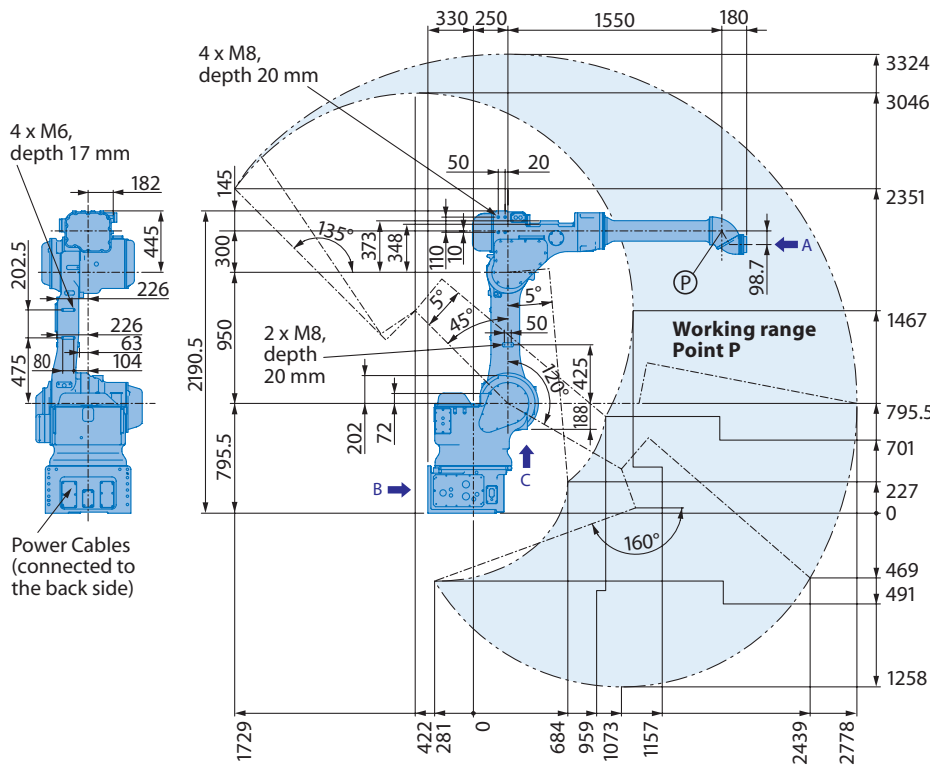
0408



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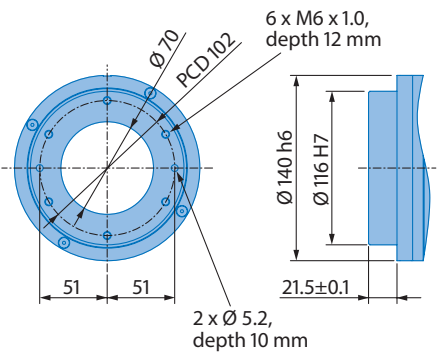
Specifications EPX2700

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	-	-	Repeat. pos. accuracy [mm]	15
U	+90/-65	speed	-	-	Max. working range [mm]	±0.15
R	±720	of all axis	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

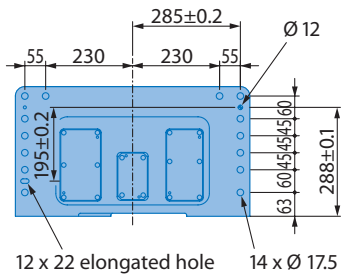


Power Cables (connected to the back side)

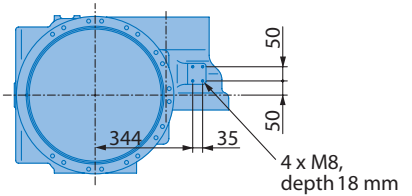
View A



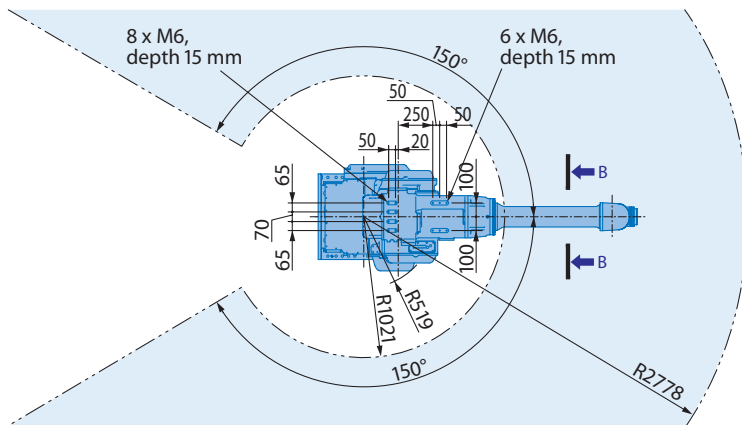
View B





View C



Mounting option: Floor



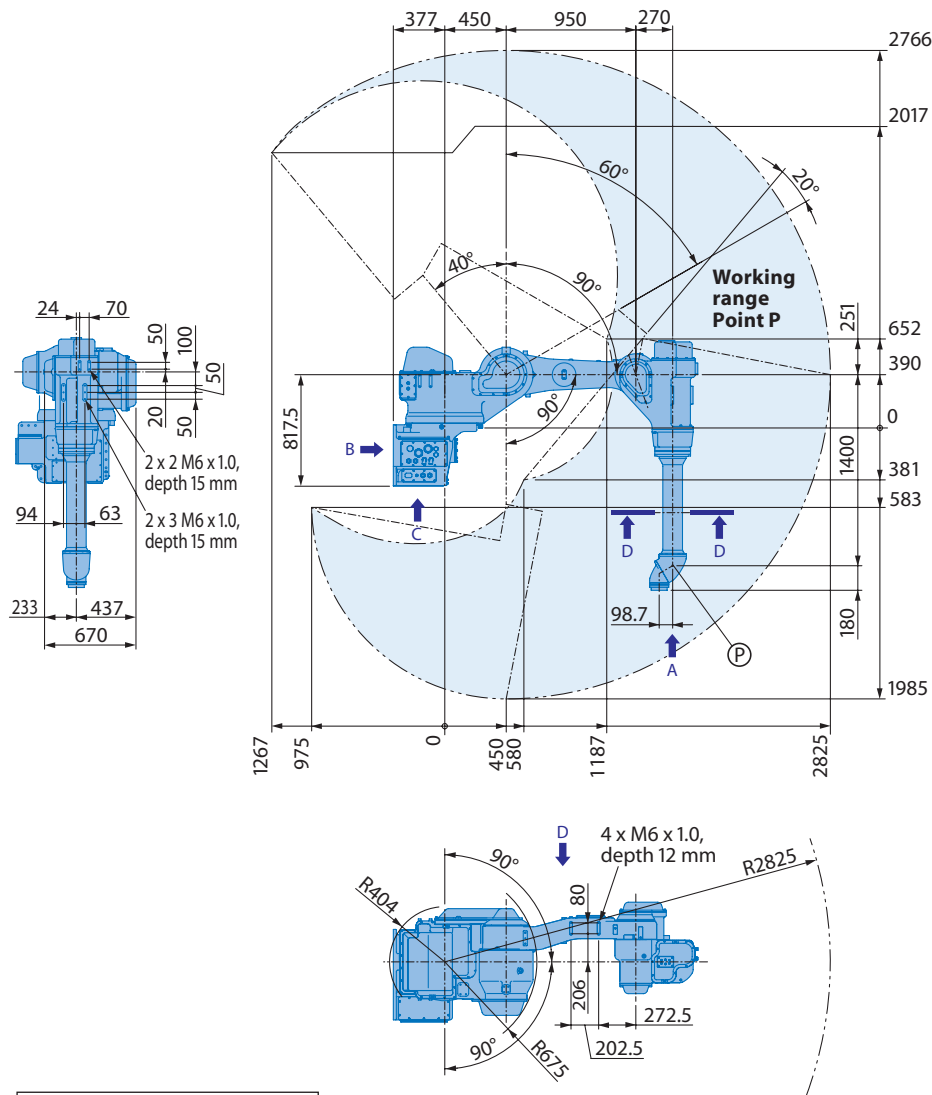
Protection level:
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 0408



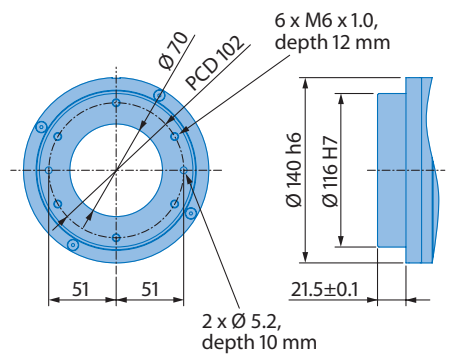
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Specifications EPX2800

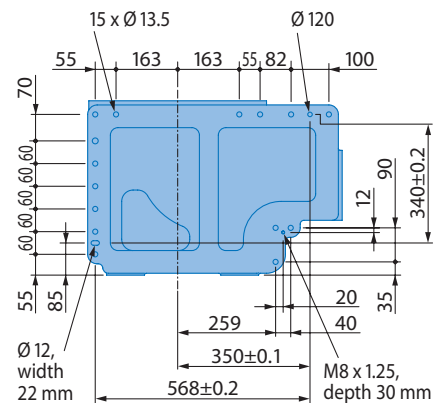
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±150	2	-	-	Max. payload [kg]	6
L	+120/-45	is composite speed of all axis	-	-	Repeat. pos. accuracy [mm]	20
U	+90/-85		-	-	Max. working range [mm]	±0.5
R	±360		77.4	2.45	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	



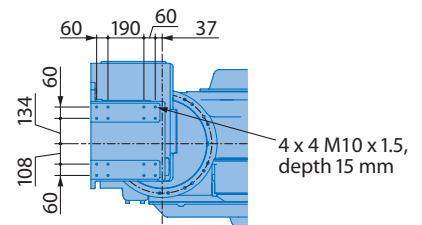
View A



View B



View C



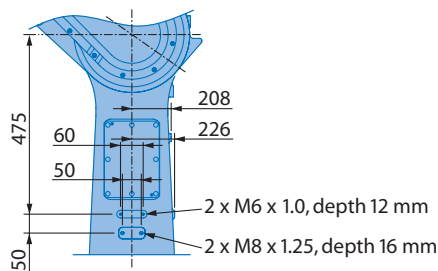
Mounting option: Wall

Protection level:

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



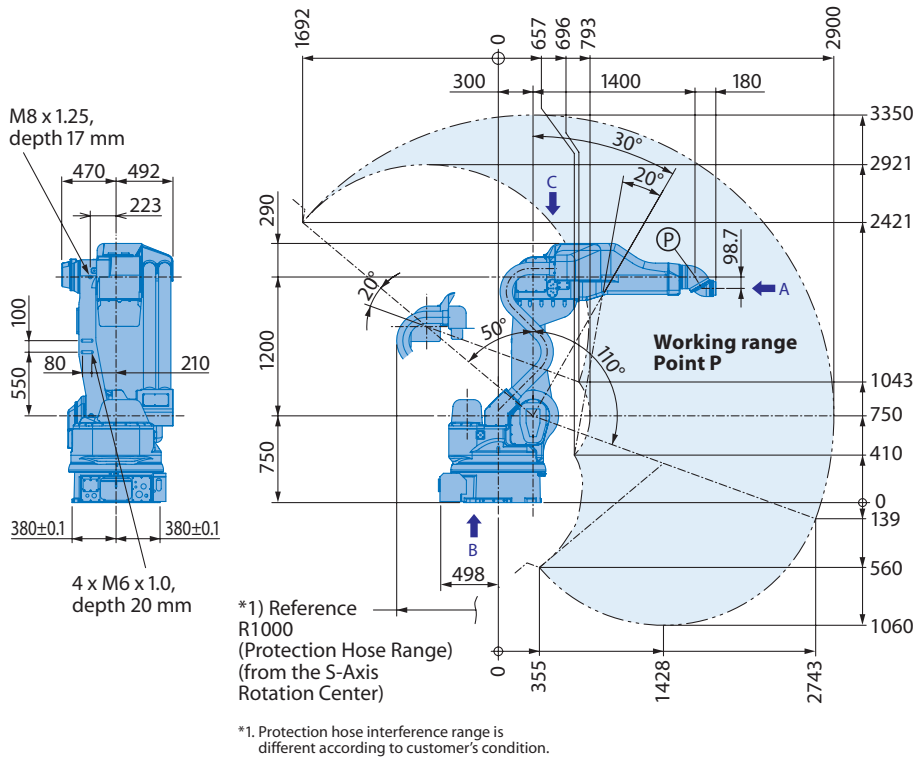
View D



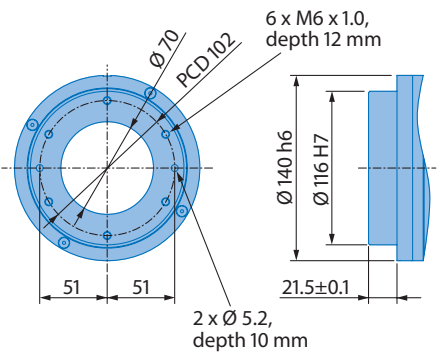
All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotics@yaskawa.eu.com – C-04-2014, A-No. 156797

Specifications EPX2800R

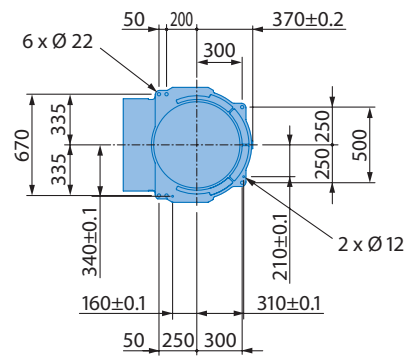
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	±120	2	-	-	Max. payload [kg]	6
L	+90/-130	is composite speed of all axis	-	-	Repeat. pos. accuracy [mm]	15
U	+90/-70		-	-	Max. working range [mm]	±0.5
R	±360		45.8	1.45	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



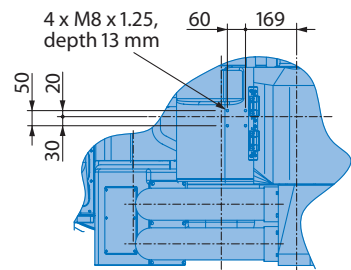
View A



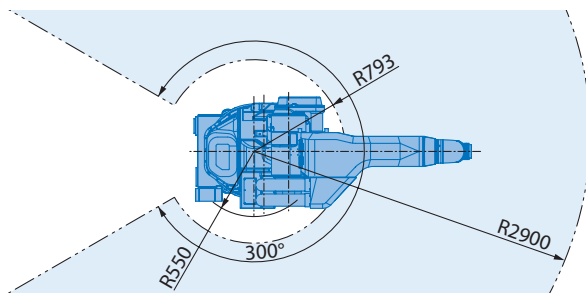
View B



View C



Mounting option: Floor



Protection level:

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

CE
0408



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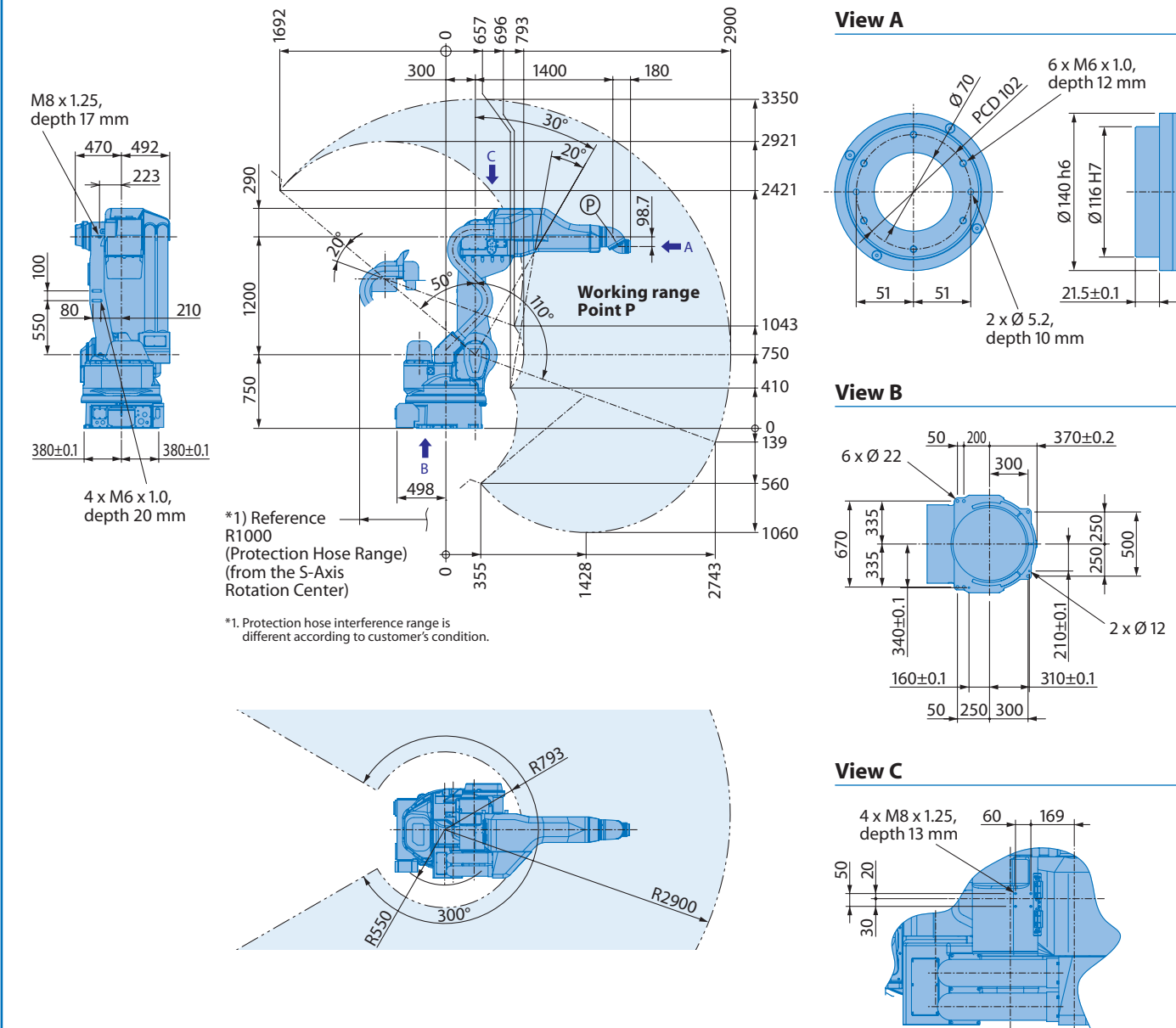
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 II2G Ex px II T4
 II2D Ex pD 21 Tmax 135°C
 CE 0408

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Specifications EPX2900

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

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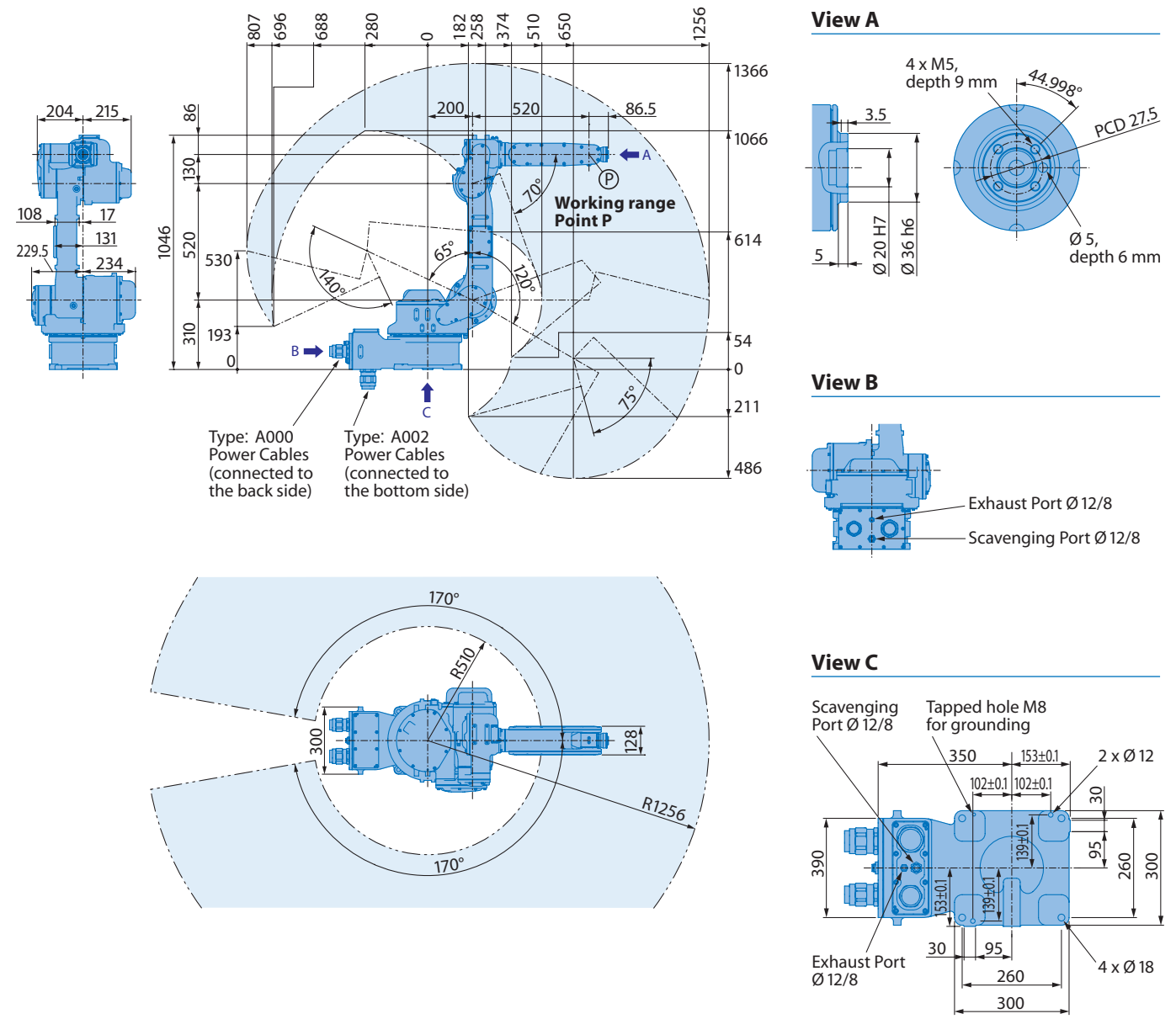
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• Versatile, fast and flexible
• Perfect accessibility
• Large working range
• Variable payload
• Unique efficiency

MOTOMAN EPX-series

EPX1250 EPX2050 EPX2700 EPX2800 EPX2800R EPX2900

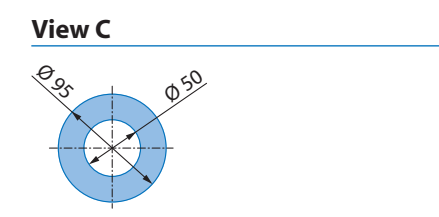
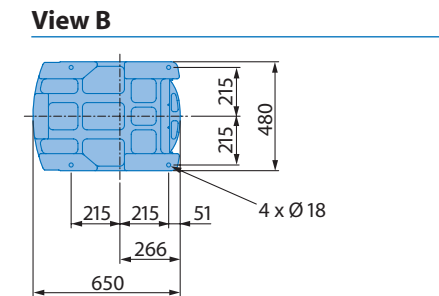
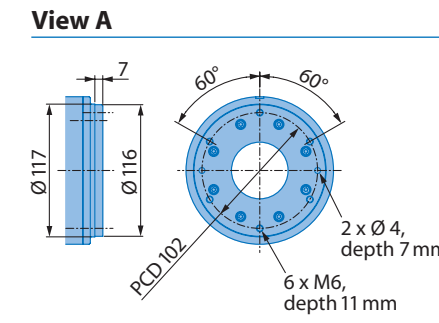
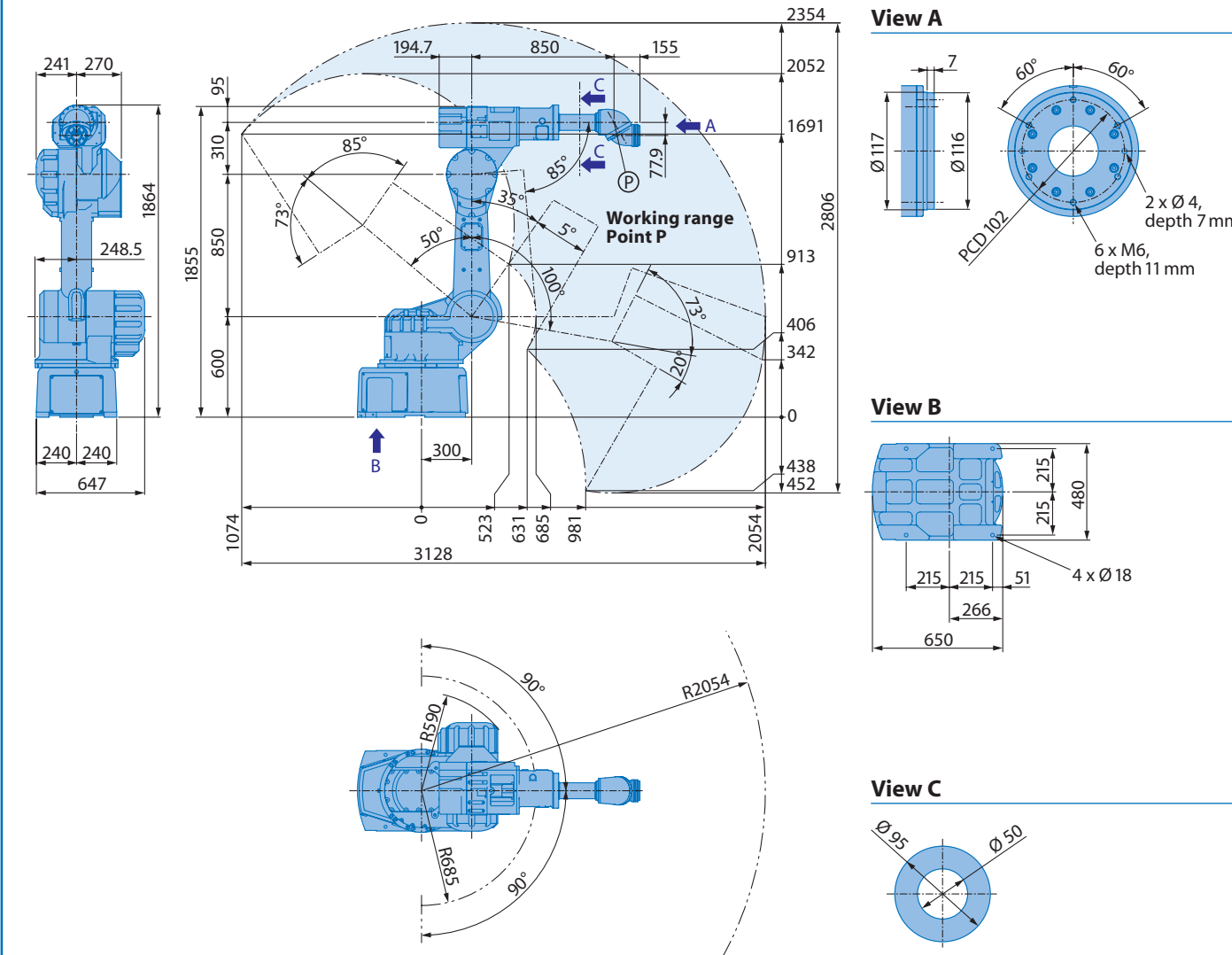


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 II2D Ex p IIC T135°C Db IP66
 CE 0408

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Specifications EPX1250

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

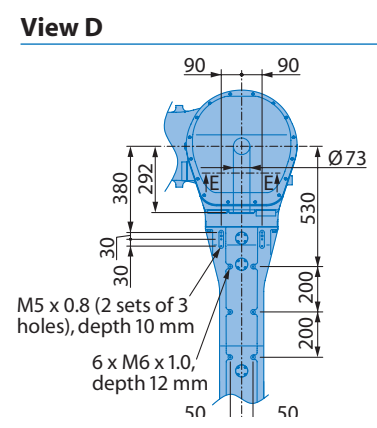
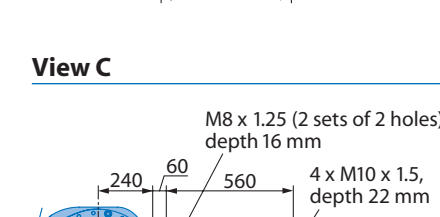
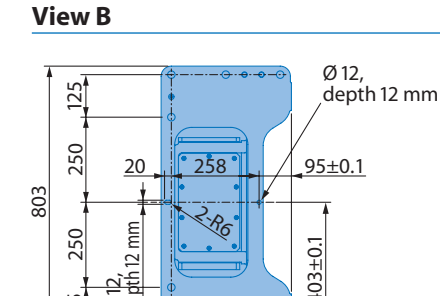
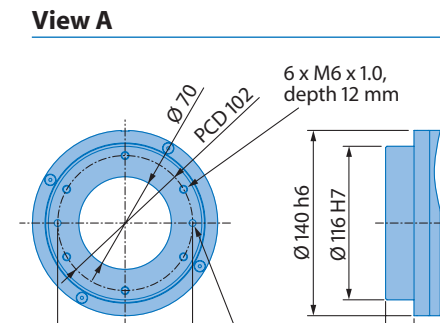
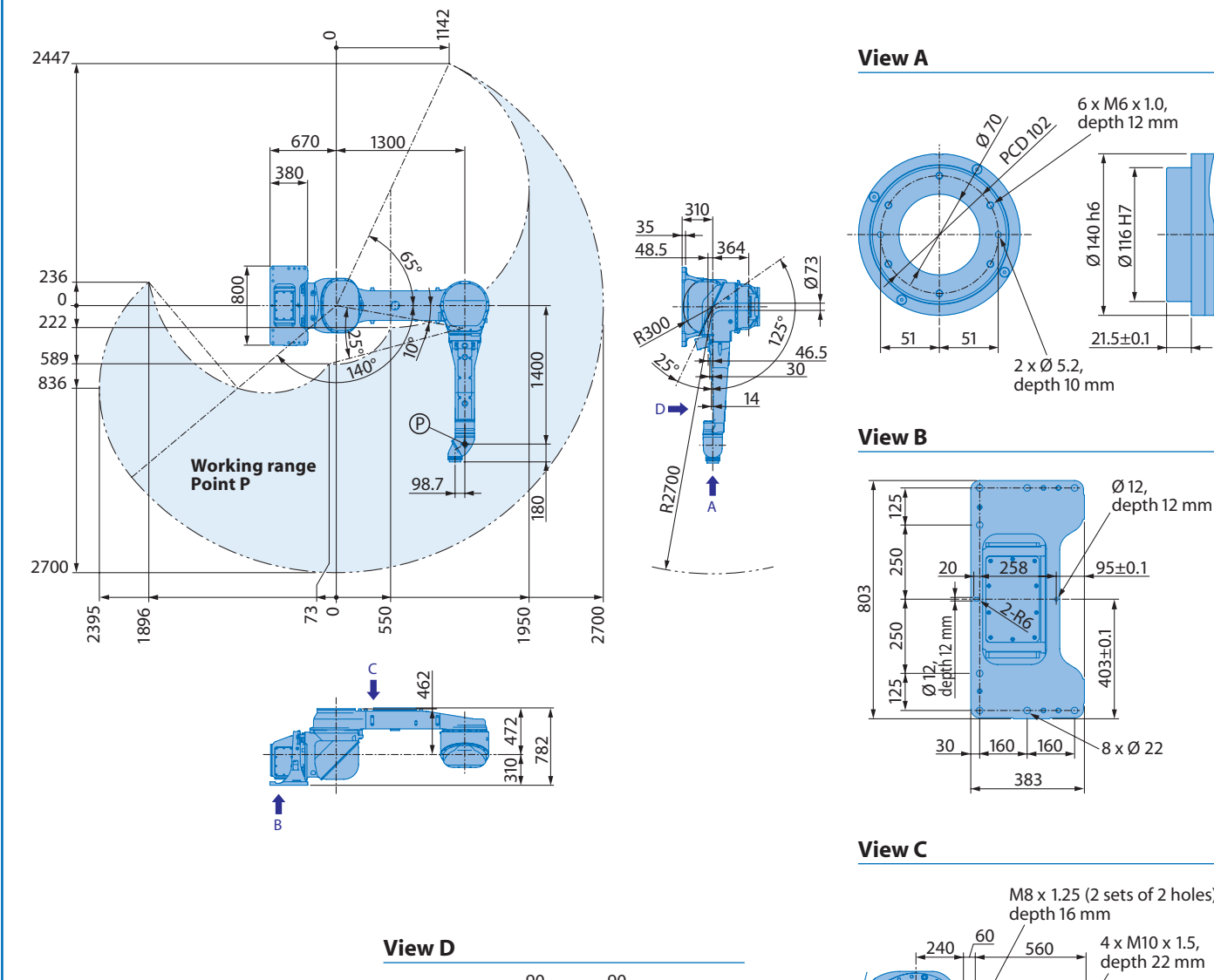


Mounting option: Floor

Protection level:
 Ex II2G Ex px II T4
 II2D 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 robotic@yaskawa.eu.com - C-04-2014, A-No. 156797

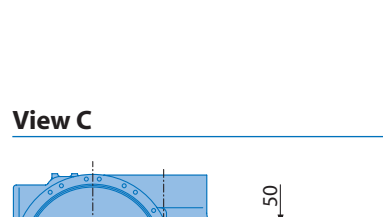
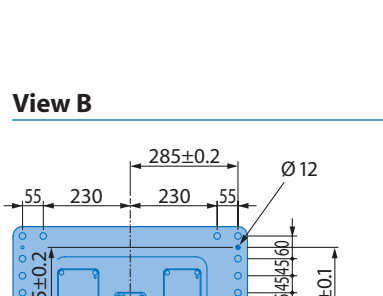
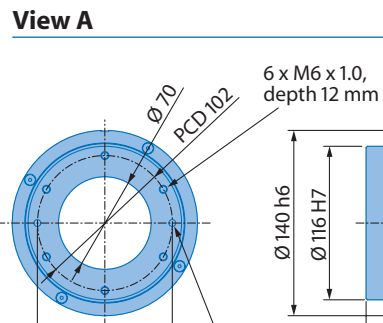
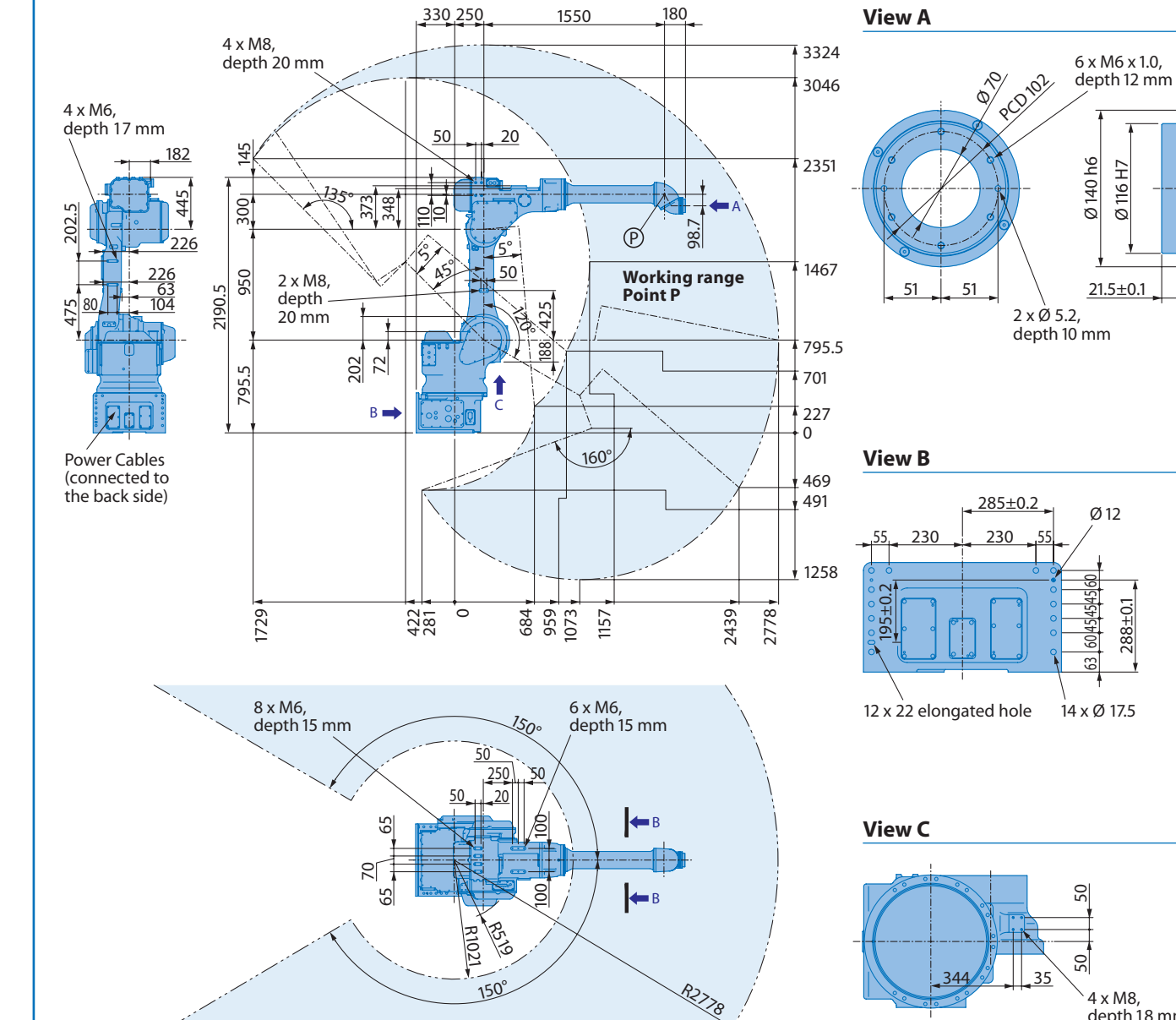
Specifications EPX2050						
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
S	±90	2	–	–	Max. payload [kg]	15
L	+100/-50	is composite	–	–	Repeat.pos.accuracy [mm]	±0.5
U	+5/-163	speed	–	–	Max. working range [mm]	R = 2054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



Protection level:
 Ex II2G Ex px IIC T4 Gb
 II2D Ex p IIC T135°C Db IP66
 CE 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	6
S	+125/-25	2	–	–	Max. payload [kg]	15
L	+140/-65	is composite	–	–	Repeat.pos.accuracy [mm]	±0.15
U	+90/-65	speed	–	–	Max. working range [mm]	R = 2700
R	±720	of all axis	45.8	1.45	Temperature [°C]	0 to +40
B	±720	–	33.8	0.79	Humidity [%]	20 – 80
T	±720	–	10.8	0.10	Weight [kg]	590
					Power supply, average [KVA]	5

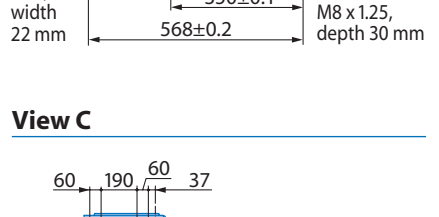
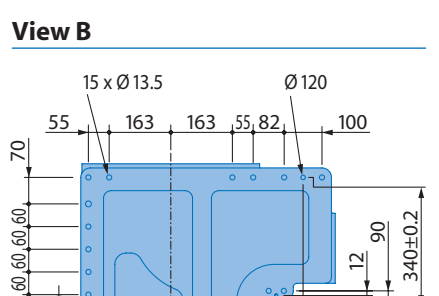
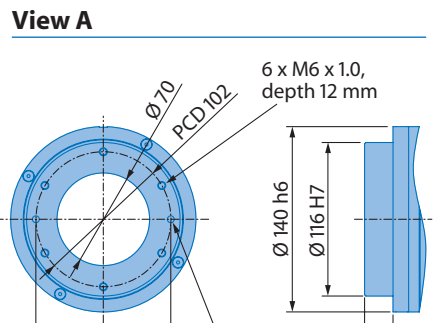
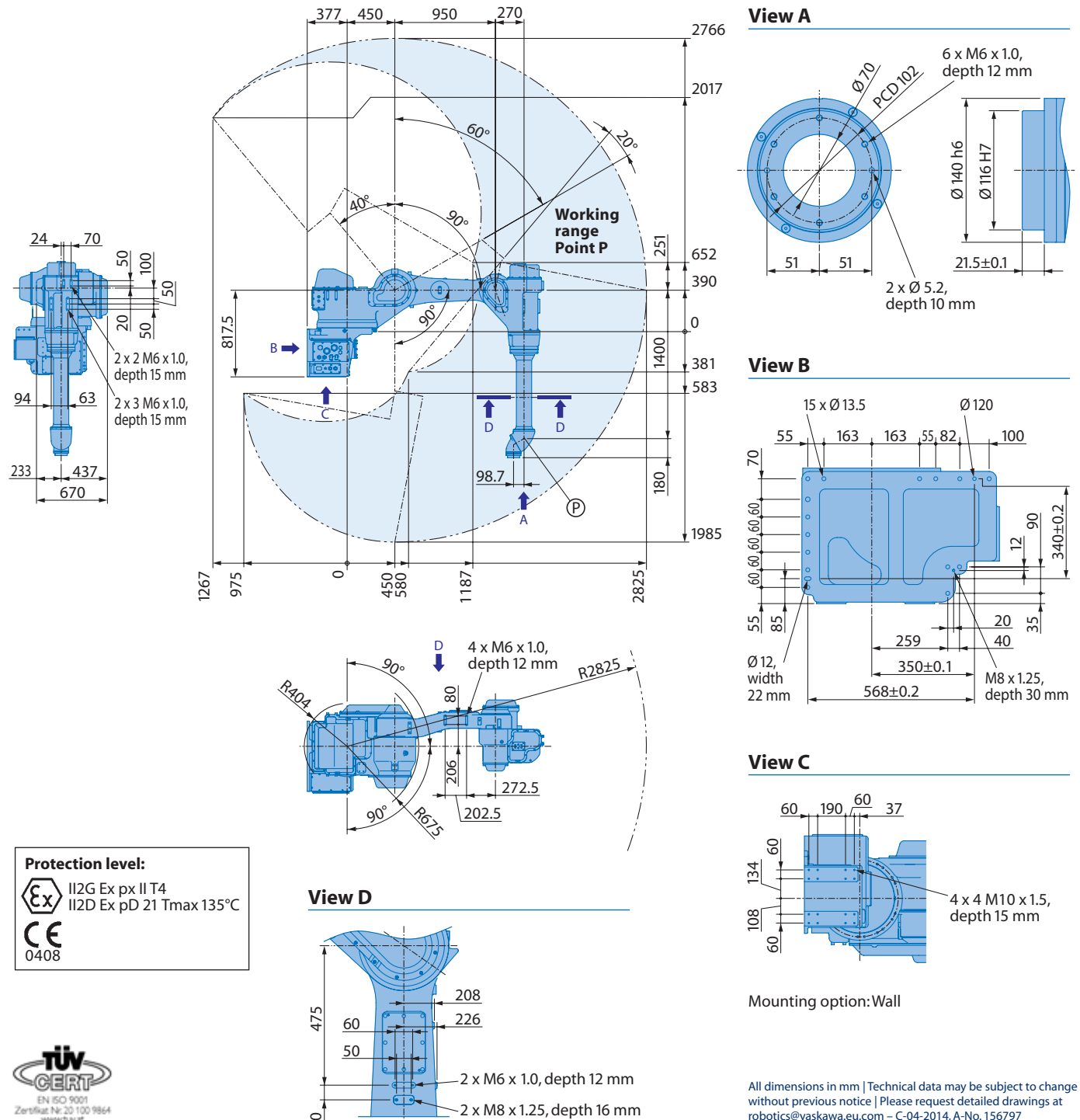


Mounting option: Floor

Protection level:
 Ex II2G Ex px IIC T4 Gb
 II2D Ex p IIC 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 robotic@yaskawa.eu.com - C-04-2014, 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	6
S	±150	2	–	–	Max. payload [kg]	20
L	+120/-45	is composite	–	–	Repeat.pos.accuracy [mm]	±0.5
U	+90/-85	speed	–	–	Max. working range [mm]	R = 2778
R	±360	of all axis	77.4	2.45	Temperature [°C]	0 to +40
B	±360	–	49.9	1.20	Humidity [%]	20 – 80
T	±360	–	16.6	0.20	Weight [kg]	650
					Power supply, average [KVA]	5



Mounting option: Wall

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

All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at robotic@yaskawa.eu.com - C-04-2014, A-No. 156797

Specifications EPX2800R						
Axes	Maximum motion range [°]	Maximum speed [m/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
S	±120	2	–	–	Max. payload [kg]	15
L	+90/-130	is composite	–	–	Repeat.pos.accuracy [mm]	±0.5
U	+90/-70	speed	–	–	Max. working range [mm]	R = 2825
R	±360	of all axis	45.8	1.45	Temperature [°C]	0 to +45
B	±360	–	33.8	0.79	Humidity [%]	20 – 80
T	±360	–	10.8	0.10	Weight [kg]	820
					Power supply, average [KVA]	5