



# A unique range of robots

## Standard arm range



MODEL	LOW PAYLOAD										MEDIUM PAYLOAD						HEAVY PAYLOAD		
	RS20	RS40B	RS60	RS80	TX40	TX60	TX60 L	TX90	TX90 L	TX90 XL	RX160	RX160 L	RX130 XL	RX170	RX170 L	RX170 HP	RX260	RX260 L	RX270
Maximum load <sup>(1)</sup> (kg)	1	5	8	8	2,3	9	5	20	15	12	34	28	10	60	45	65	150	130	250
Nominal load (kg)	0,5	2	2	2	1,7	3,5	2	7	6	5	20	14	6	30	20	60	130	130	220
Reach (mm)	220	400	600	800	515	670	920	1000	1200	1450	1710	2010	2185	1835	2135	1835	2831	3210	2967
Number of degrees of freedom	4	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Repeatability to ISO 9283 (mm)	±0,01	±0,01	±0,01	±0,01	±0,02	±0,02	±0,03	±0,03	±0,035	±0,04	±0,05	±0,05	±0,05	±0,04	±0,05	±0,04	±0,07	±0,07	±0,09
Protection class (wrist)	IP10	IP54	IP54	IP54	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65 (67)	IP65	IP65	IP65
Pressurized version <sup>(2)</sup>					●	●	●	●	●	●	●	●	●	●	●	●			
HE version <sup>(3)</sup>					●	●	●	●	●	●	●	●	●	●	●	●			
Work envelope	Axis 1 ±133°	±105°	±140°	±140°	±180°	±180°	±180°	±180°	±180°	±180°	±160°	±160°	±160°	±180°	±180°	±180°	±180°	±180°	±180°
	Axis 2 ±131°	±143°	±150°	±155°	±125°	±127,5°	±127,5°	+147,5°/-130°	+147,5°/-130°	+147,5°/-130°	±137,5°	±137,5°	±137,5°	±120°	±120°	±120°	+75°/-55°	+75°/-55°	+75°/-60°
	Axis 3 100 mm	200 mm	200 mm (400 mm option)	200 mm (400 mm option)	±138°	±142,5°	±152,5°	±145°	±145°	±145°	±150°	±150°	±150°	±145°	±145°	±145°	+110°/-170°	+110°/-170°	+110°/-170°
	Axis 4 ±250°	±500° <sup>(4)</sup>	±500° <sup>(4)</sup>	±500° <sup>(4)</sup>	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±270°	±280°	±280°	±2700°
	Axis 5 -	-	-	-	+133,5°/-120°	+132,5°/-122,5°	+132,5°/-122,5°	+140°/-115°	+140°/-115°	+140°/-115°	+120°/-105°	+120°/-105°	+120°/-105°	+130°/-110°	+130°/-110°	+130°/-110°	±120°	±120°	±125°
	Axis 6 -	-	-	-	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±270° <sup>(4)</sup>	±2700°	±2700°	±2700°
Nominal speed	Maximum	Axis 1 867°/s <sup>(5)</sup>	350°/s 360°/s	350°/s 360°/s	290°/s 290°/s	287°/s 555°/s	287°/s 435°/s	287°/s 435°/s	250°/s 400°/s	215°/s 400°/s	190°/s 400°/s	165°/s 200°/s	165°/s 200°/s	142°/s 278°/s	130°/s 155°/s	130°/s 155°/s	108°/s <sup>(5)</sup>	108°/s <sup>(5)</sup>	85°/s <sup>(5)</sup>
	Axis 2 867°/s <sup>(5)</sup>	480°/s 659°/s	480°/s 659°/s	480°/s 659°/s	287°/s 415°/s	287°/s 475°/s	287°/s 385°/s	200°/s 400°/s	170°/s 390°/s	160°/s 350°/s	150°/s 200°/s	150°/s 200°/s	150°/s 200°/s	130°/s 278°/s	115°/s 130°/s	115°/s 130°/s	104°/s <sup>(5)</sup>	104°/s <sup>(5)</sup>	83°/s <sup>(5)</sup>
	Axis 3 580 mm/s <sup>(5)</sup>	1600 mm/s 1923 mm/s	1600 mm/s 1923 mm/s	1600 mm/s 1923 mm/s	1600 mm/s 1923 mm/s	430°/s 585°/s	431°/s 540°/s	431°/s 540°/s	400°/s 500°/s	330°/s 430°/s	255°/s 400°/s	255°/s 400°/s	255°/s 400°/s	190°/s 230°/s	190°/s 255°/s	175°/s 205°/s	135°/s 205°/s	110°/s <sup>(5)</sup>	110°/s <sup>(5)</sup>
	Axis 4 2500°/s <sup>(5)</sup>	1200°/s 2020°/s	1200°/s 2020°/s	1200°/s 2020°/s	410°/s 1035°/s	410°/s 995°/s	410°/s 995°/s	430°/s 540°/s	540°/s 430°/s	540°/s 400°/s	540°/s 400°/s	295°/s 315°/s	295°/s 315°/s	280°/s 409°/s	190°/s 237°/s	190°/s 237°/s	190°/s <sup>(5)</sup>	190°/s <sup>(5)</sup>	150°/s <sup>(5)</sup>
	Axis 5 -	-	-	-	320°/s 1135°/s	320°/s 1065°/s	320°/s 1065°/s	350°/s 475°/s	350°/s 475°/s	345°/s 475°/s	260°/s 360°/s	260°/s 360°/s	260°/s 360°/s	224°/s 480°/s	200°/s 243°/s	200°/s 243°/s	100°/s 151°/s	190°/s <sup>(5)</sup>	190°/s <sup>(5)</sup>
	Axis 6 -	-	-	-	700°/s 1575°/s	700°/s 1445°/s	700°/s 1445°/s	600°/s 760°/s	600°/s 760°/s	600°/s 760°/s	600°/s 760°/s	440°/s 870°/s	440°/s 870°/s	406°/s 1125°/s	297°/s 297°/s	562°/s 297°/s	297°/s 562°/s	230°/s <sup>(5)</sup>	230°/s <sup>(5)</sup>
Weight (kg) (bracket version)	15	43,5 (32,2)	48,5 (40,2)	51 (42,7)	27	51,4	52,5	111	114	116	248	250	245	721	726	726	1900	1900	2000
Attachment methods	Floor	Floor	Floor/Wall (bracket)	Floor/Wall (bracket)	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor/Wall/Ceiling	Floor	Floor	Floor
Stäubli CS8 series Controller	CS8C M	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C	CS8C

## Special arm packages



MODEL	TX40 CR	TX60 CR/SCR	TX60 L CR/SCR	TX90 CR/SCR	TX90 L CR/SCR	TX90 XL CR/SCR	RX160 CR	RX160 L CR	RX130 XL CR	RX170 CR	RX170 L CR	RX170 HP CR
Maximal load <sup>(1)</sup> (kg)	2,3	9	5	20	15	12	34	28	10	60	45	65
Nominal load (kg)	1,7	3,5	2	7	6	5	20	14	6	30	20	60
Reach (mm)	515	670	920	1000	1200	1450	1710	2010	2185	1835	2135	1835
Repeatability to ISO 9283 (mm)	±0,02	±0,02	±0,03	±0,03	±0,035	±0,04	±0,05	±0,05	±0,05	±0,04	±0,05	±0,04
Weight (kg)	27	51	52	111	114	116	248	250	245	721	726	726
Cleanroom Standard ISO 14644-1 - FS 209E	class 4 class 10	class 2 (SCR version) or classe 4 (CR version) subclass 1 (SCR version) or classe 10 (CR version)			classe 4 classe 10							
Arm mounting options	Floor/Wall/Ceiling			Floor/Ceiling			Floor					
Stäubli CS8 series Controller	CS8C						CS8 or CS8 M					

(1) Consult factory for special applications.



MODEL	RXPaint 60	RXPaint 60 L	RXPaint 90	RXPaint 90 L	TXPaint 90	TXPaint 90 L	TXPaint 90 XL	RXPaint 160	RXPaint 160 L	RXPaint 130 XL	
Maximal load <sup>(1)</sup> (kg)	10	6	11	6	20	15	12	34	28	10	
Nominal load (kg)	2,5	1,5	6	3,5	7	6	5	20	14	6	
Reach (mm)	665	865	985	1185	1000	1200	1450	1710	2010	2185	
Maximum speed	1,8 m/s	1,8 m/s	2 m/s	2 m/s	2,5 m/s	2,5 m/s	2,5 m/s	2,5 m/s	2,5 m/s	1,8 m/s	
Solvent/water/powder	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●	
Working areas: Cenelec (Europe) Factory Mutual or cCSAus (USA)	Group II Category 2,3 Zone 1,2,21,22 Class I, II, III Div 1&2			Group II Category 3 Zone 2,22			Group II Category 2,3 Zone 1,2,21,22 Class I, II, III Div 1&2				
Arm mounting options	Floor/Wall/Ceiling			Floor/Ceiling			Floor/Wall/Ceiling				
Stäubli CS8 series Controller	CS8 EX				CS8C				CS8 EX		

(1) Consult factory for special applications.



MODEL	TXplastics 40	TXplastics 60	TXplastics 60 L	TXplastics 90	TXplastics 90 L	TXplastics 90 XL	RXplastics 160	RXplastics 160 L
Maximal load <sup>(1)</sup> (kg)	2,3	9	5	20	15	12	34	28
Nominal load (kg)	1,7	3,5	2	7	6	5	20	14
Reach (mm)	515	670	920	1000	1200	1450	1710	2010
Repeatability to ISO 9283 (mm)	±0,02	±0,02	±0,03	±0,03	±0,035	±0,04	±0,05	±0,05
Weight (kg)	27	51	52	111	114	116	248	250
Interfacing with injection molding machine	Euromap 12 or 67 (Europe) SPI (USA)							
Arm mounting options	Floor/Wall/Ceiling				Floor/Ceiling			
Stäubli CS8 series Controller	CS8C							

(1) Consult factory for special applications.

# Application configurator

	MODEL	Maximum load <sup>(1)</sup> (kg)		Number of degrees of freedom	Arm mounting options	Assembly	Inspection, measurement	Cutting (plasma, laser, water jet, etc...)	Positioning, gluing	Handling	Machine tending	Painting, spraying	Palletizing, packaging	Polishing, deburring	
		Nominal load (kg)	Reach (mm)												
STANDARDS	LOW PAYLOAD	RS20	1	0,5	220	4	Floor	●	●	●	●	○			
		RS40B	5	2	400	4	Floor/Wall (bracket)	●	●	●	●	○			
		RS60	8	2	600	4	Floor/Wall (bracket)	●	●	●	●	○			
		RS80	8	2	800	4	Floor/Wall (bracket)	●	●	●	●	○			
		TX40	2,3	1,7	515	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
	MEDIUM PAYLOAD	TX60	9	3,5	670	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX60L	5	2	920	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX90	20	7	1000	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX90 L	15	6	1200	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX90 XL	12	5	1450	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
HEAVY PAYLOAD	RX160	34	20	1710	6	Floor/Ceiling	●	●	○	●	●	○	○	○	
	RX160 L	28	14	2010	6	Floor/Ceiling	●	●	○	●	●	○	○	○	
	RX130 XL	10	6	2185	6	Floor/Ceiling	●	●	○	●	●	○	○	○	
	RX170	60	30	1835	6	Floor	●	●	○	●	●	○	○	○	
	RX170 L	45	20	2135	6	Floor	●	●	○	●	●	○	○	○	
SPECIALIZED	CLEANROOM	RX260	150	130	2831	6	Floor	●	●	○	●	●	○	○	○
		RX260 L	130	130	3210	6	Floor	●	●	○	●	●	○	○	○
		RX270	250	220	2967	6	Floor	●	●	○	●	●	○	○	○
		TX40 CR	2,3	1,7	515	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX60 CR/SCR	9	3,5	670	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
	PAINT	TX60 L CR/SCR	5	2	920	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX90 CR/SCR	20	7	1000	6	Floor/Wall/Ceiling	●	●	○	●	●	○	○	○
		TX90 L CR/SCR	15	6	1200	6	Floor/Wall/Ceiling	●	●						