

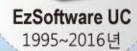








RTEX





Singular Controller

2004년





2015년

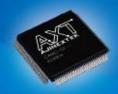


- TOSHIBA
- ABB
- YASKAWA
- 2. External view
- TOSHIBA
- YASKAWA

Mechatrolink-II 2015년

SSCNET 2011년





1. Selection table Robots



Model		THL300	
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		300mm(125mm+175mm)	
	Axis 1	±125°	
Working envelope	Axis 2	±145°	
working envelope	Axis 3(Z axis)	0~160mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	660°/S	
	Axis 2	660°/S	
Maximum speed	Axis 3(Z axis)	1120mm/s	
	Axis 4(Z axis rotation)	1500°/S	
	Composite	5.1m/s	
Standard cycle time	Standard cycle time(with 2kg load)		
Maximum payload	mass	5kg(rated : 2kg)	
Allowable moment	of inertia	0.05kg⋅m²	
Positioning	X-Y	±0.01mm	
4.1.114	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø4x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		0.7kVA	
Mass		12kg	



N	THL400		
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		400mm(225mm+175mm)	
	Axis 1	±125°	
Working envelope	Axis 2	±145°	
working envelope	Axis 3(Z axis)	0~160mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	660°/S	
	Axis 2	660°/S	
Maximum speed	Axis 3(Z axis)	1120mm/s	
	Axis 4(Z axis rotation)	1500°/S	
	Composite	6.3m/s	
Standard cycle time(with 2kg load)		0.47s	
Maximum payload mass		5kg(rated : 2kg)	
Allowable moment	of inertia	0.05kg·m²	
Positioning	Х-Ү	±0.01mm	
	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø4x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		0.7kVA	
Mass		13kg	



N	THL500		
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		500mm(200mm+300mm)	
	Axis 1	±125°	
Manking anyalana	Axis 2	±145°	
Working envelope	Axis 3(Z axis)	0~150mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	450°/S	
	Axis 2	450°/S	
Maximum speed	Axis 3(Z axis)	2000mm/s	
	Axis 4(Z axis rotation)	1700°/S	
	Composite	6.3m/s	
Standard cycle time(with 2kg load)		0.45s	
Maximum payload	mass	10kg(rated : 2kg)	
Allowable moment	of inertia	0.2kg·m ²	
Positioning	X-Y	±0.01mm	
	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø6x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		1.4kVA	
Mass		22kg	



Model THL600			
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		600mm(300mm+300mm)	
	Axis 1	±125°	
Working envelope	Axis 2	±145°	
working envelope	Axis 3(Z axis)	0~150mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	450°/S	
	Axis 2	450°/S	
Maximum speed	Axis 3(Z axis)	2000mm/s	
	Axis 4(Z axis rotation)	1700°/S	
	Composite	7.1m/s	
Standard cycle time(with 2kg load)		0.45s	
Maximum payload mass		10kg(rated : 2kg)	
Allowable moment	of inertia	0.2kg⋅m²	
Positioning	X-Y	±0.01mm	
4.1.114	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø6x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		1.4kVA	
Mass		23kg	



Model THL700			
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		700mm(400mm+300mm)	
	Axis 1	±125°	
Working envelope	Axis 2	±145°	
working envelope	Axis 3(Z axis)	0~150mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	450°/S	
	Axis 2	450°/S	
Maximum speed	Axis 3(Z axis)	2000mm/s	
	Axis 4(Z axis rotation)	1700°/S	
	Composite	7.9m/s	
Standard cycle time(with 2kg load)		0.50s	
Maximum payload mass		10kg(rated : 2kg)	
Allowable moment	of inertia	0.2kg·m ²	
Positioning	X-Y	±0.01mm	
	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø6x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		1.4kVA	
Mass		24kg	



N	THL800			
Туре		Horizontal milti-joint		
No. of controlled axes		4		
Arm length		800mm(350mm+450mm)		
	Axis 1	±125°		
Working envelope	Axis 2	±145°		
working envelope	Axis 3(Z axis)	0~150mm		
	Axis 4(Z axis rotation)	±360°		
	Axis 1	187.5°/S		
	Axis 2	217.5°/S		
Maximum speed	Axis 3(Z axis)	2000mm/s		
	Axis 4(Z axis rotation)	1700°/S		
	Composite	4.3m/s		
Standard cycle time(with 2kg load)		0.47s		
Maximum payload	mass	10kg(rated : 2kg)		
Allowable moment	of inertia	0.2kg·m ²		
Positioning	X-Y	±0.02mm		
	Z(Axis 3)	±0.015mm		
repeatability	Axisθ(Z-axis rotation)	±0.007°		
Hand wiring		8input / 8outputs		
Hand pneumatic joints		Ø6x3 pcs.		
Position detection		Absolute		
Robot controller cable		3.5m		
Power capacity		1.4kVA		
Mass		33kg		



N	THL900		
Туре		Horizontal milti-joint	
No. of controlled axes		4	
Arm length		900mm(450mm+450mm)	
	Axis 1	±125°	
Working envelope	Axis 2	±145°	
working envelope	Axis 3(Z axis)	0~300mm	
	Axis 4(Z axis rotation)	±360°	
	Axis 1	187.5°/S	
	Axis 2	217.5°/S	
Maximum speed	Axis 3(Z axis)	2000mm/s	
	Axis 4(Z axis rotation)	1700°/S	
	Composite	4.6m/s	
Standard cycle time	Standard cycle time(with 2kg load)		
Maximum payload	mass	10kg(rated: 2kg)	
Allowable moment	of inertia	0.2kg·m ²	
Positioning	X-Y	±0.02mm	
	Z(Axis 3)	±0.015mm	
repeatability	Axisθ(Z-axis rotation)	±0.007°	
Hand wiring		8input / 8outputs	
Hand pneumatic joints		Ø6x3 pcs.	
Position detection		Absolute	
Robot controller cable		3.5m	
Power capacity		1.4kVA	
Mass		35kg	



Model		THL1000		
Туре		Horizontal milti-joint		
No. of controlled axes		4		
Arm length		1000mm(550mm+450mm)		
	Axis 1	±125°		
Working envelope	Axis 2	±145°		
working envelope	Axis 3(Z axis)	0~300mm		
	Axis 4(Z axis rotation)	±360°		
	Axis 1	187.5°/S		
	Axis 2	217.5°/S		
Maximum speed	Axis 3(Z axis)	2000mm/s		
	Axis 4(Z axis rotation)	1700°/S		
	Composite	5.0m/s		
Standard cycle time	Standard cycle time(with 2kg load)			
Maximum payload	mass	10kg(rated : 2kg)		
Allowable moment	of inertia	0.2kg·m²		
Positioning	X-Y	±0.02mm		
	Z(Axis 3)	±0.015mm		
repeatability	Axisθ(Z-axis rotation)	±0.007°		
Hand wiring		8input / 8outputs		
Hand pneumatic joints		Ø6x3 pcs.		
Position detection		Absolute		
Robot controller cable		3.5m		
Power capacity		1.4kVA		
Mass		37kg		

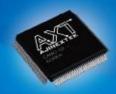


IRB 910SC	-		-	-	-	-
IRB 910SC-3/0.45,			IRB910-3/0.45	IRB910-3/0.55	IRB910-3/0.65	Main applications
IRB 910SC-3/0.55 and IRB 910SC-3/0.65	Load (kg)		3, max 6	3, max 6	3, max 6	Assembly
	Reach (m)		0.45	0.55	0.65	Component Placement
	Position	Axis 1 + 2	±0.01	±0.01	±0.01	Machine Loading
	repeatability	Axis 3	±0.01	±0.01	±0.01	Machine Unloading
	(RP) (mm)	Axis 4	±0.01 deg	±0.01 deg	±0.01 deg	Kitting
	Working range					
	Protection avai	lable	Std: IP20	Std: IP20	Std: IP20	
	Mounting		Table	Table	Table	
Certified by IPA						

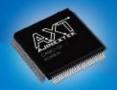




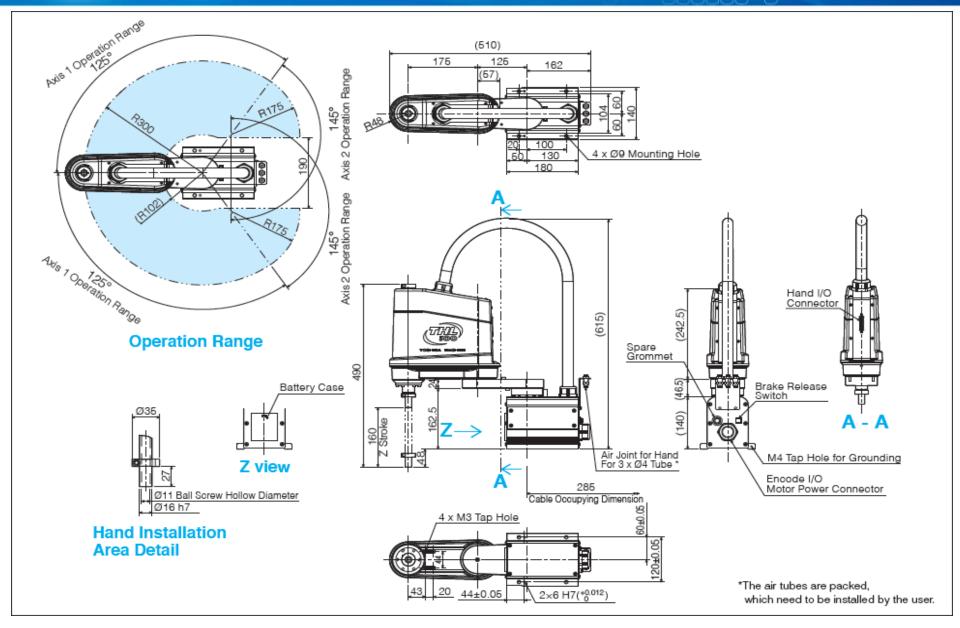
	Model	MYS450L	MYS650L	MYS850L	MYS1,000L
Туре		Horizontal milti-joint	Horizontal milti-joint	Horizontal milti-joint	Horizontal milti-joint
No. of contro	lled axes	4	4	4	4
Arm length		450mm (200mm+250mm)	650mm (400mm+250mm)	650mm (450mm+400mm)	1,000mm (600mm+400mm)
	Axis 1	-	-	-	-
Working	Axis 2	-	-	-	-
envelope	Axis 3(Z axis)	0~330mm	0~330mm	0~420mm	0~420mm
	Axis 4(Z axis rotation)	-	-	-	-
	Axis 1	-	-	-	-
	Axis 2	-	-	-	-
Maximum speed	Axis 3(Z axis)	-	-	-	-
speed	Axis 4(Z axis rotation)	-	-	-	-
	Composite	-	-	-	-
Standard cycl	e time	-	-	-	-
Maximum pa	yload mass	6kg	6kg	10kg	20kg
Allowable mo (Normal / Ma	ment of inertia x)	0.01kg·m² / 0.12kg·m²	0.01kg·m² / 0.12kg·m²	0.02kg·m² / 0.25kg·m²	0.02kg·m² / 0.45kg·m²
Positioning	X-Y	-	-	-	-
	Z(Axis 3)	-	-	-	-
repeatability	Axisθ(Z-axis rotation)	-	-	-	-
Hand wiring		-	-	-	-
Hand pneuma	atic joints	-	-	-	-
Position dete	ction	-	-	-	-
Robot contro	ller cable	-	-	-	-
Power capaci	ty	-	-	-	-
Mass		27kg	28kg	46kg	48kg

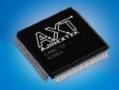


2. External view

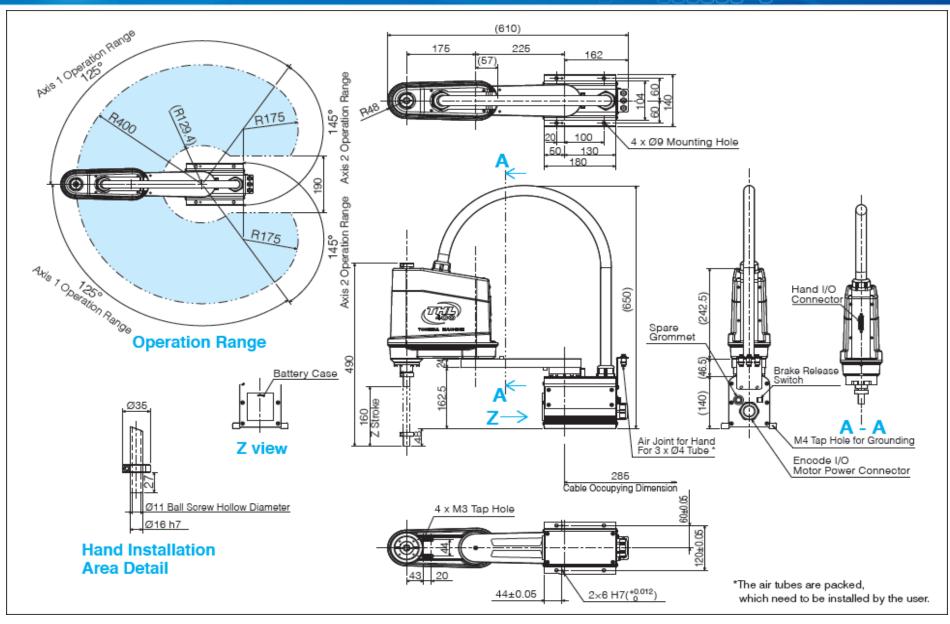


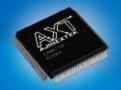
(TOSHIBA-THL300)



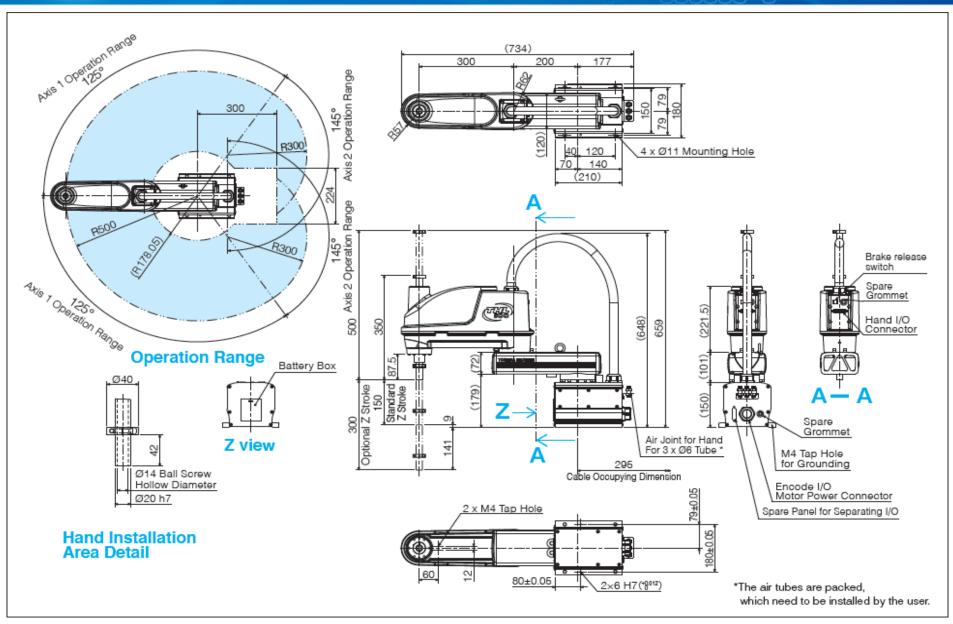


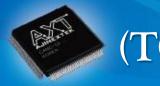
(TOSHIBA-THL400)



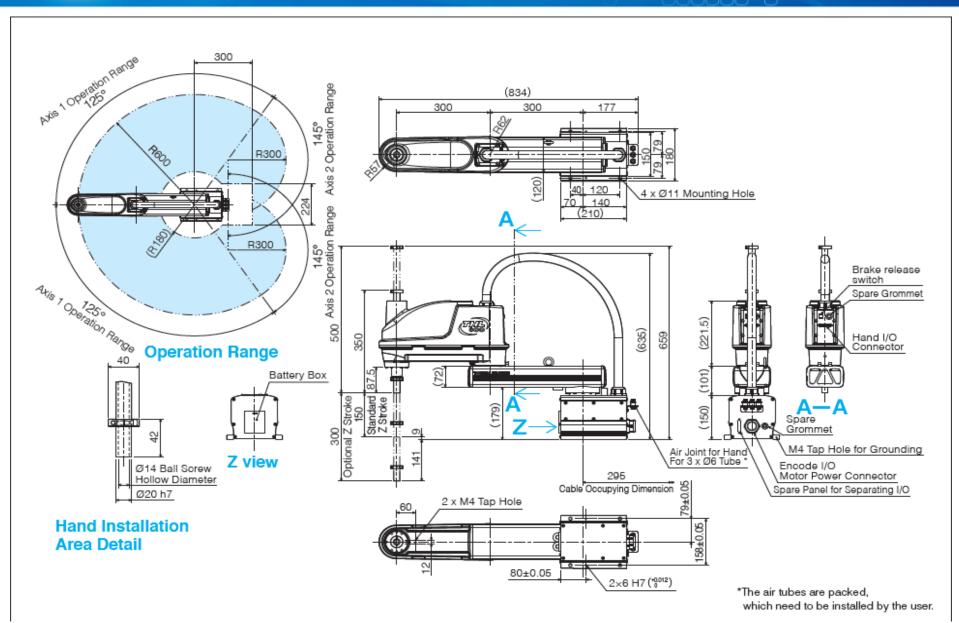


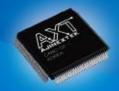
(TOSHIBA-THL500)



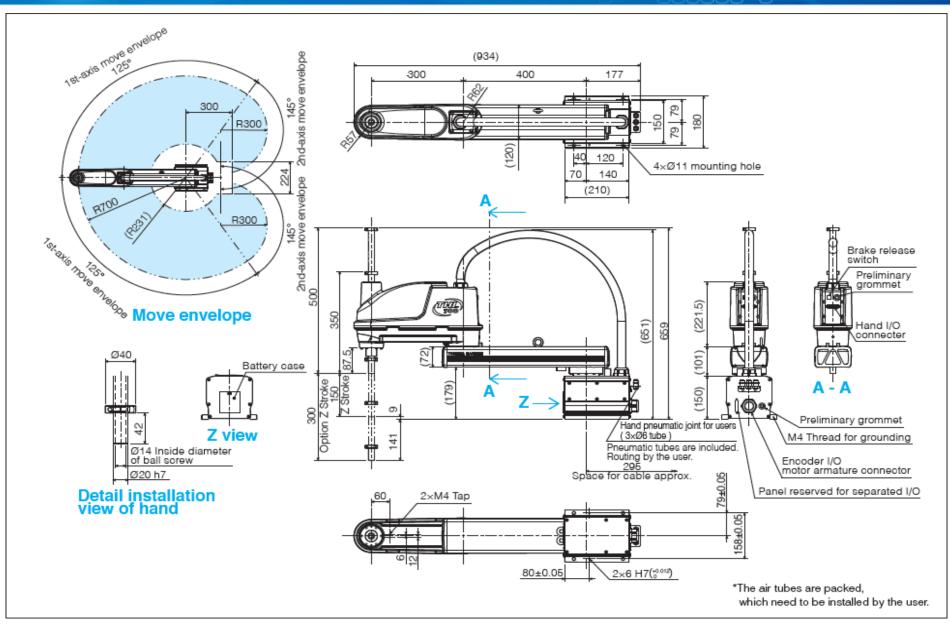


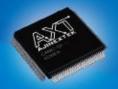
(TOSHIBA-THL600)



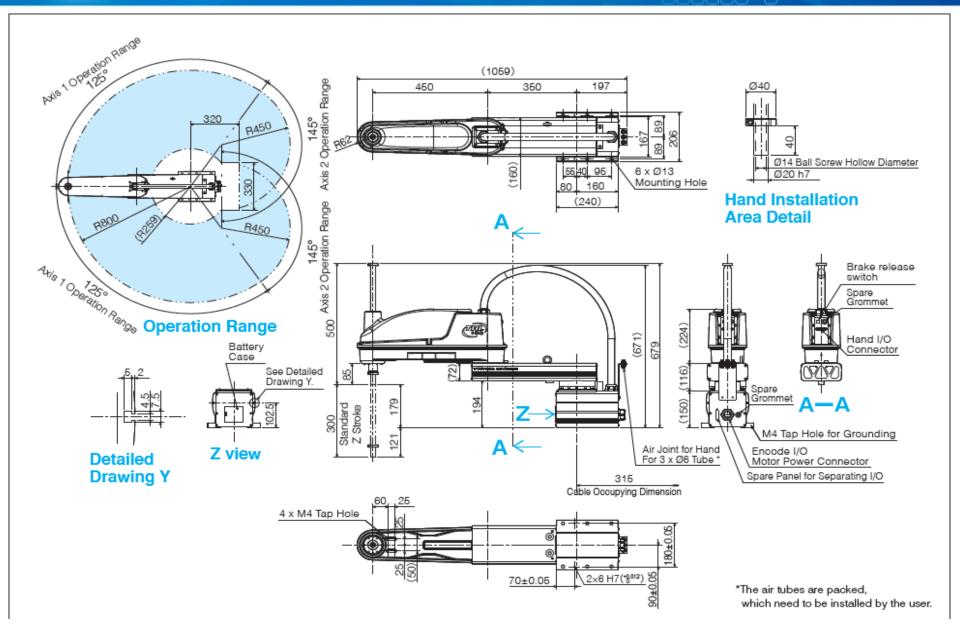


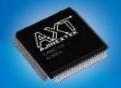
(TOSHIBA-THL700)



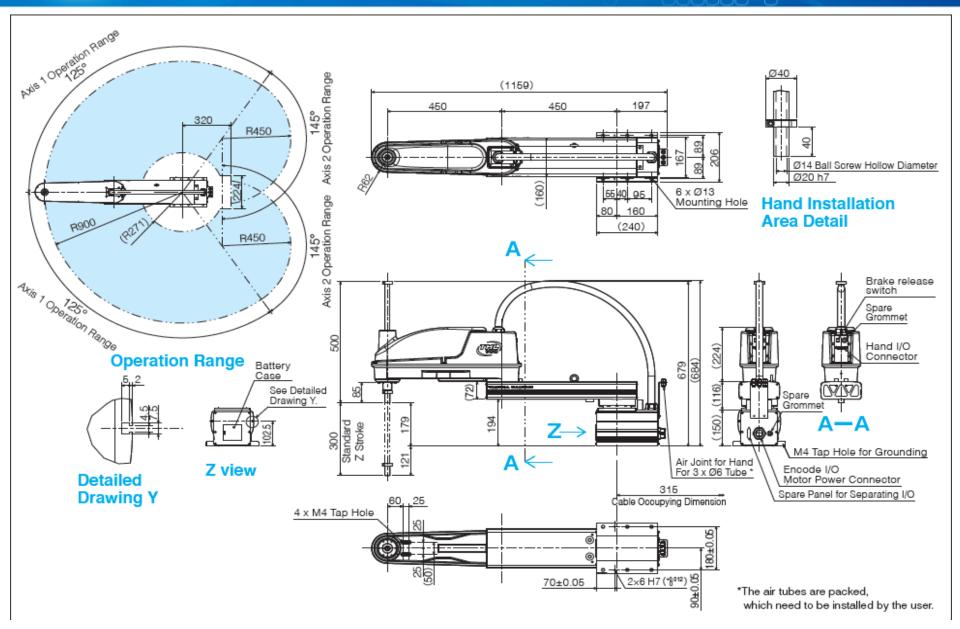


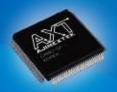
(TOSHIBA-THL800)



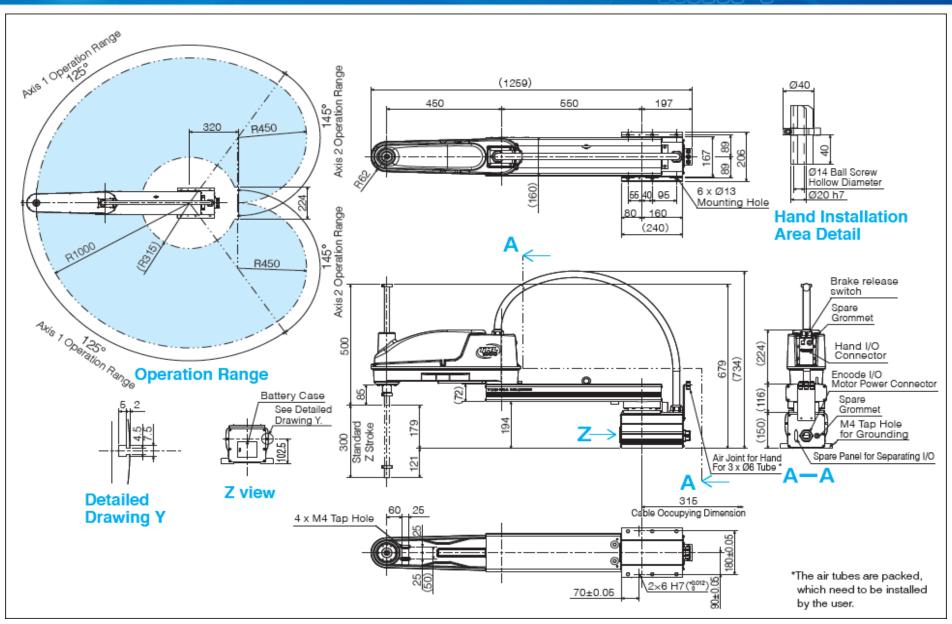


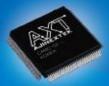
(TOSHIBA-THL900)



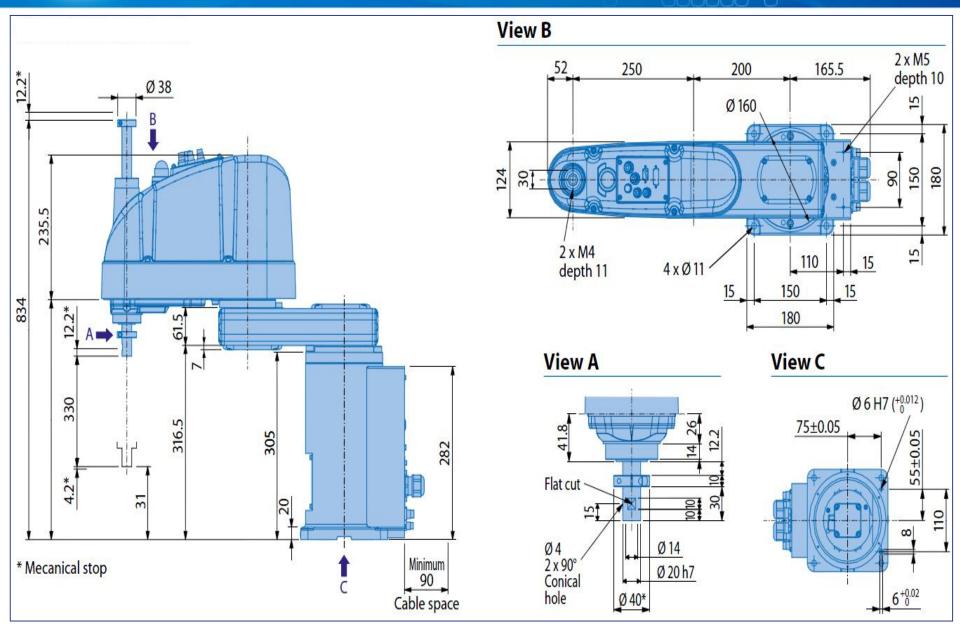


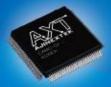
(TOSHIBA-THL1000)



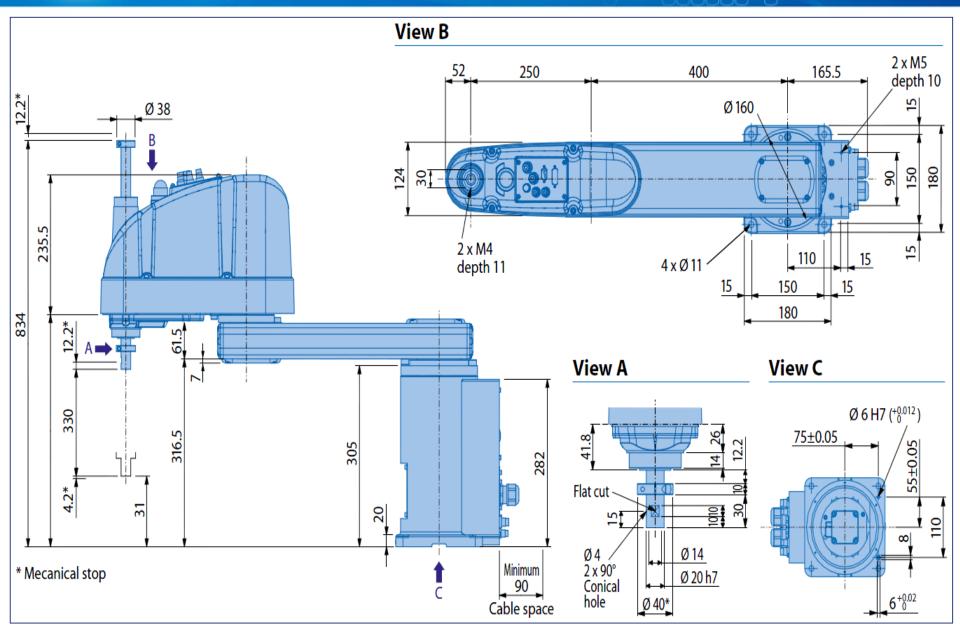


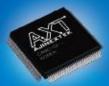
(YASKAWA-MYS450L)



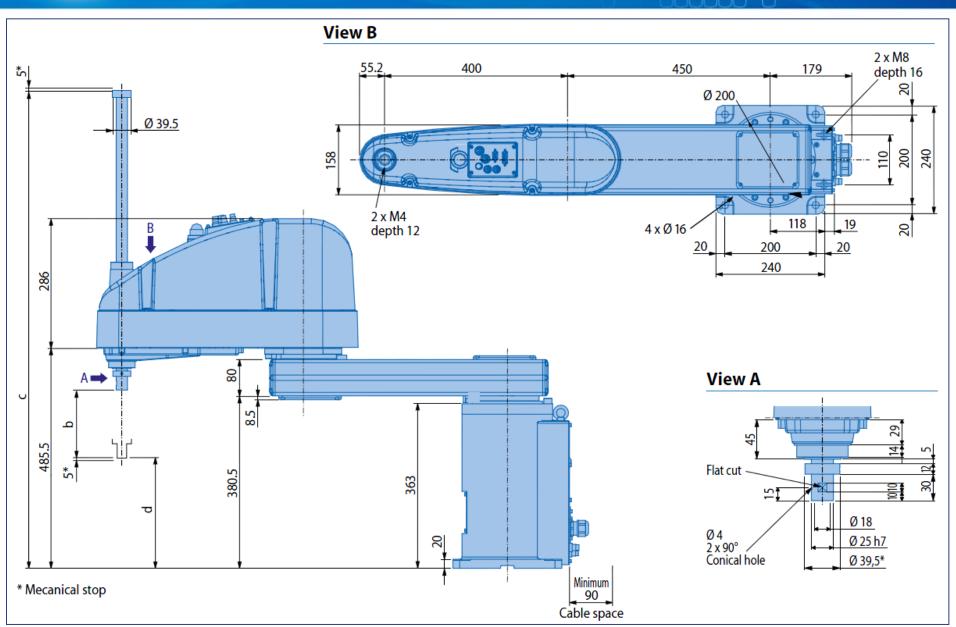


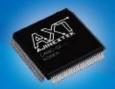
(YASKAWA-MYS650L)





(YASKAWA-MYS850L)





(YASKAWA-MYS1000L)

