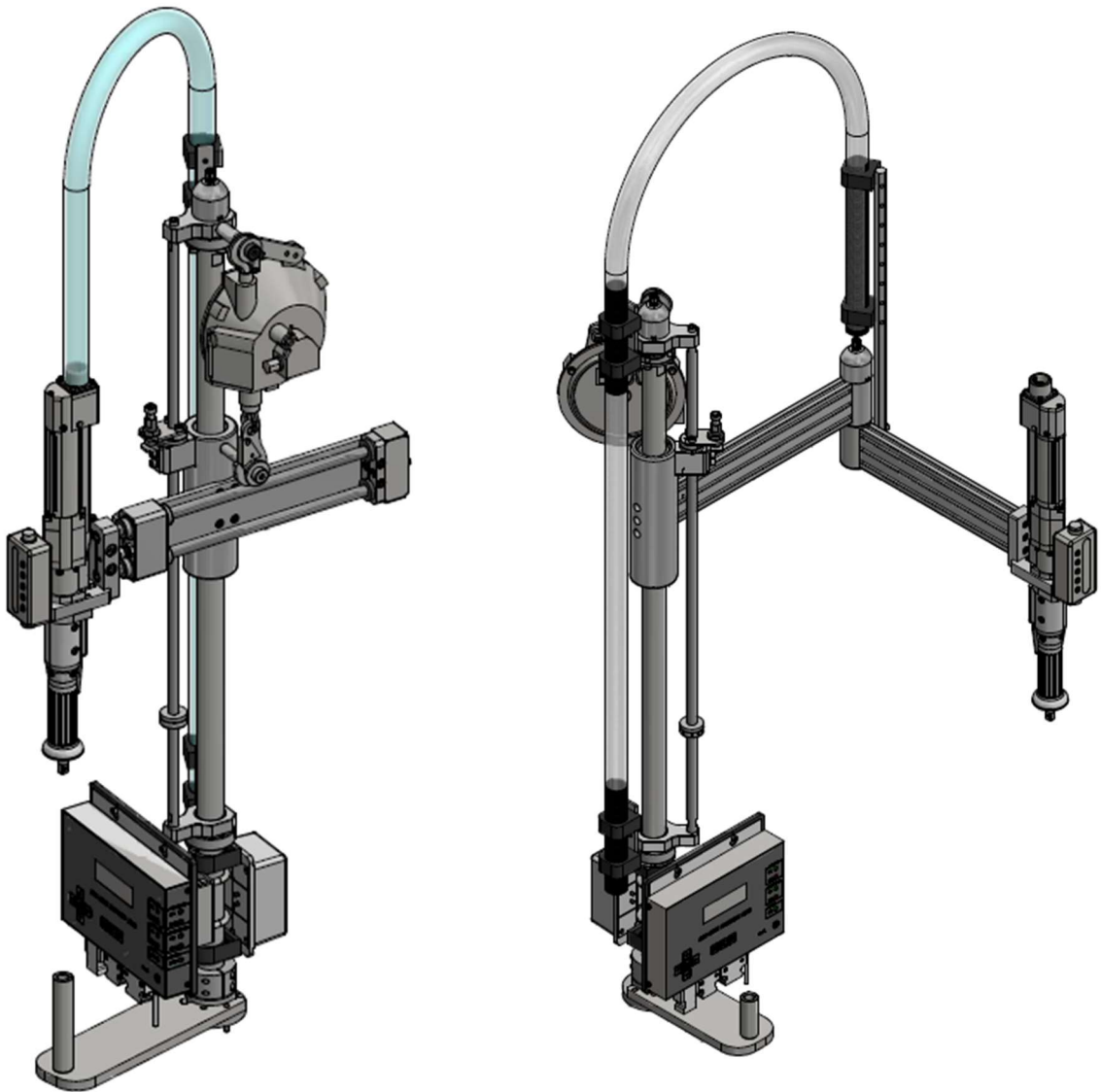
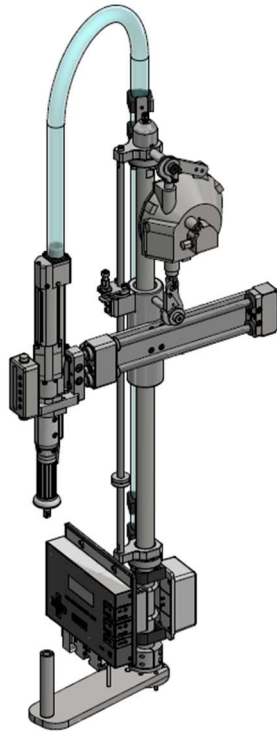


Reaction Arm



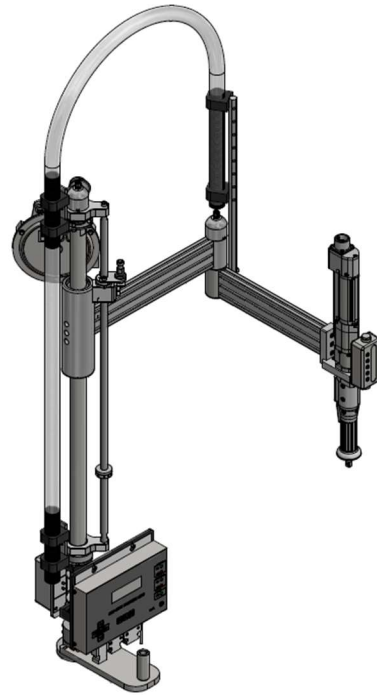
Reaction Arm

- A reaction arm that can reduce the reaction force to zero.
- Sliding type for space-saving installation.
- Swivel type for a wide work area.
- Supports positioning(standard:X,Y/option:X,Y,Z-Coordinates). Easy to set with PC software.



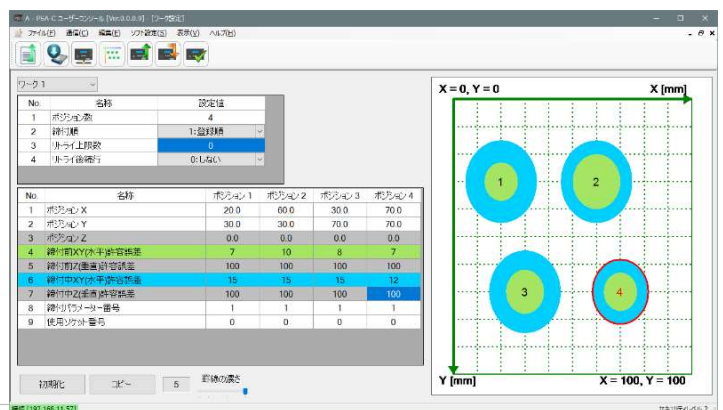
Sliding Arm

Sliding type for space-saving installation



Swivel Arm

Swivel type for a wide work area.



Positioning Controller

- Work:64, Position:40 point can be set.
- Two-stage area judgment before and after tightening.
- Free position setting for loosening work.
- Position setting is easy with software.



Touch Panel Display

- Displays fastening position and results
- Displays all fastening result data (axes)
- Displays fastening waveforms
- Display and editable fastening parameters
- Display type: TFT Color LCD
- Display size: 5.7"
- Display Resolution: 320×240pixels (QVGA)

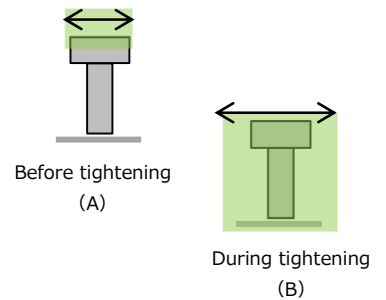
※ Editing can be done with special software.

Poka-yoke 2 positions of before and during the tightening

It is possible to poka-yoke the position to be known before operate and the position detection during tightening to prevent inadvertent work. (Tightening an adjacent bolt before the tightening is completed)

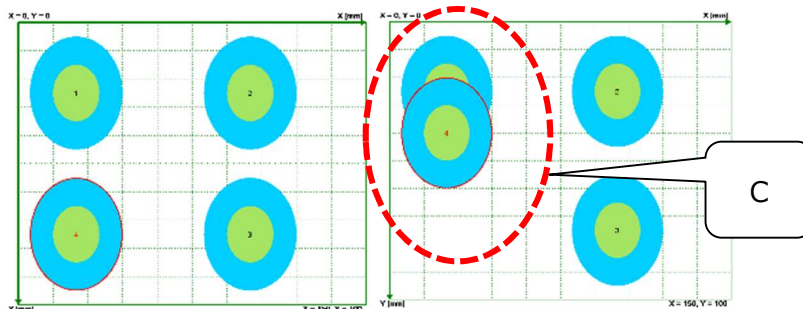
For example, severe position setting (A) for the position before tightening allows for severe position control. Rough positioning during tightening allows for socket runout prior to bolt fitting.

No.	Description	Position 1	Position 2	Position 3	Position 4	Position 5
1	Position X	0.0	0.0	0.0	0.0	0.0
2	Position Y	0.0	0.0	0.0	0.0	0.0
3	Position Z	0.0	0.0	0.0	0.0	0.0
4	XY Allowance Range Before Fastening	10	10	10	10	10
5	Z Allowance Range Before Fastening	100	100	100	100	100
6	XY Allowance Range During Fastening	10	10	10	10	10
7	Z Allowance Range During Fastening	100	100	100	100	100
8	Fastening Parameter Number	1	1	1	1	1

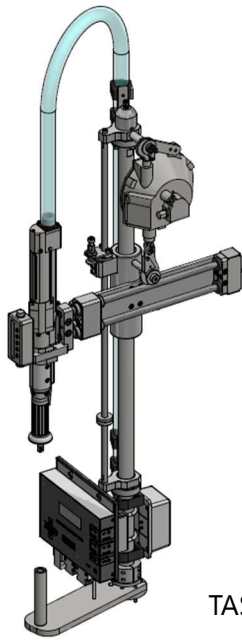


Errors in coordinate data could be confirmed on the user interface

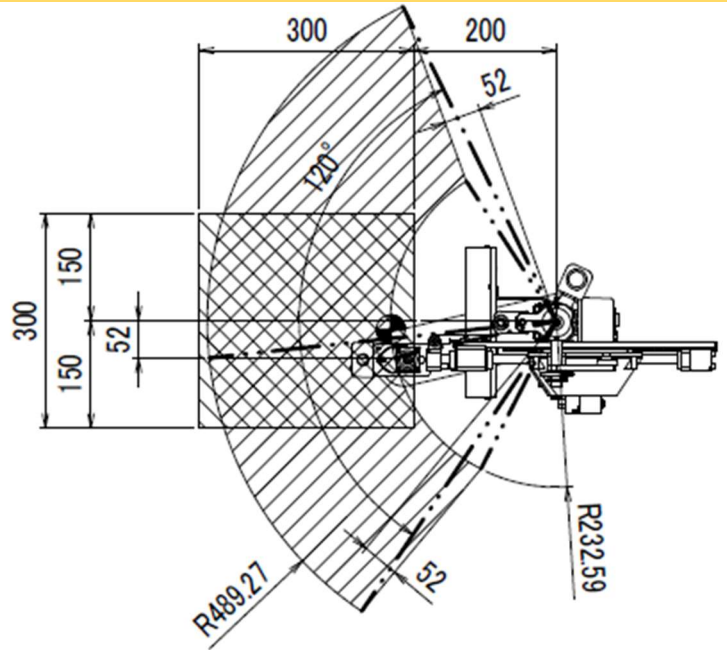
It is possible to confirm the overlap errors (C) in tightening coordinate data (2-axis coordinates) on the user interface.



Sliding Arm 40Nm



TAS40P1-X20008



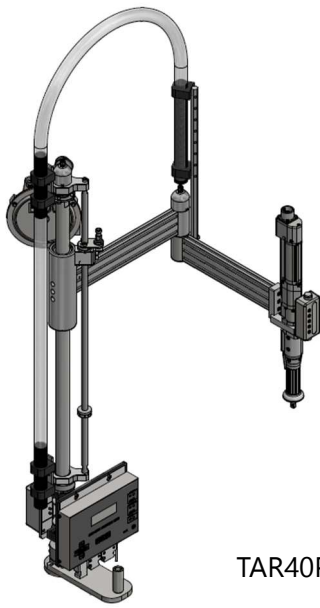
Model	Positioning	Max Torque [Nm]	Applicable Tool
TAS40P1-X20008 (15T-20008)	○	40	CFT-101RS1-S/SL CFT-201RS1-S/SL CFT-281RS1-S/SL CFT-401RS1-S/SL
			A
TAS40N1-X20009 (15T-20009)	-	40	CFT-051RS1-S/SL NFT-101RM1-S NFT-201RM1-S NFT-401RM1-S
			B
TAS40N1-X20009 (15T-20009)	-	40	HFT-010M50-S1-20/-CE HFT-015M80-S1-20/-CE HFT-025M80-S1-20/-CE HFT-040M80-S-20/-CE
			C

Grip & Tool Plate

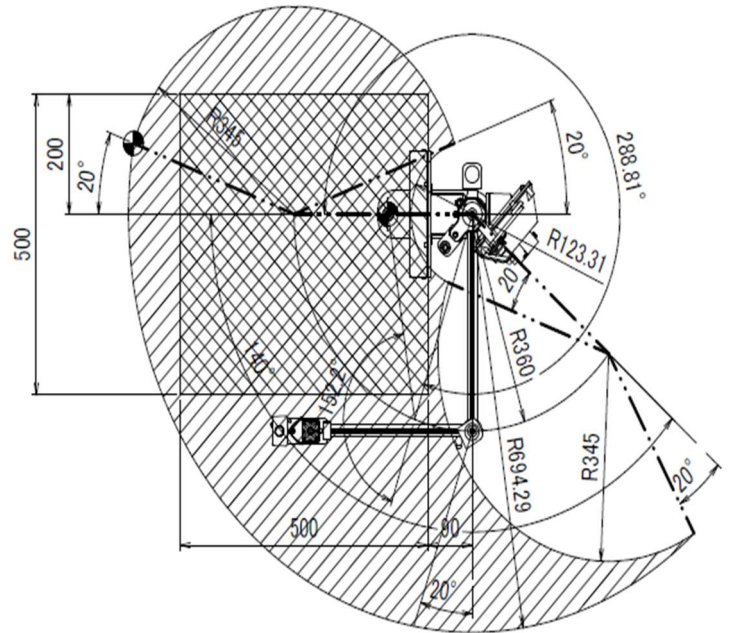
Grip type	Model	Tool Plate	Grip Switch Cable *1	Applicable Tool
Swivel	TA40-GR1-X18011 (NPN) TA40-GR1-X21007 (PNP)	TA40-TP1-C1-GR-X20004	5m:	A
		TA40-TP1-C2-GR-X20004	15T-18011-E-G01	B
		TA40-TP1-H1-GR-X20004	10m: 15T-18011-E-G02	C
Fix	TA40-GF1 (NPN&PNP)	TA40-TP1-C1-GF-X20004	5m:	A
		TA40-TP1-C2-GF-X20004	15T-20016E-G01 (NPN) 15T-20016E-G02 (PNP)	B
		TA40-TP1-H1-GF-X20004	10m: 15T-20016E-G03 (NPN) 15T-20016E-G04 (PNP)	C

*1: The cable which for grip switch without positioning

Swivel Arm 40Nm



TAR40P1-X20004



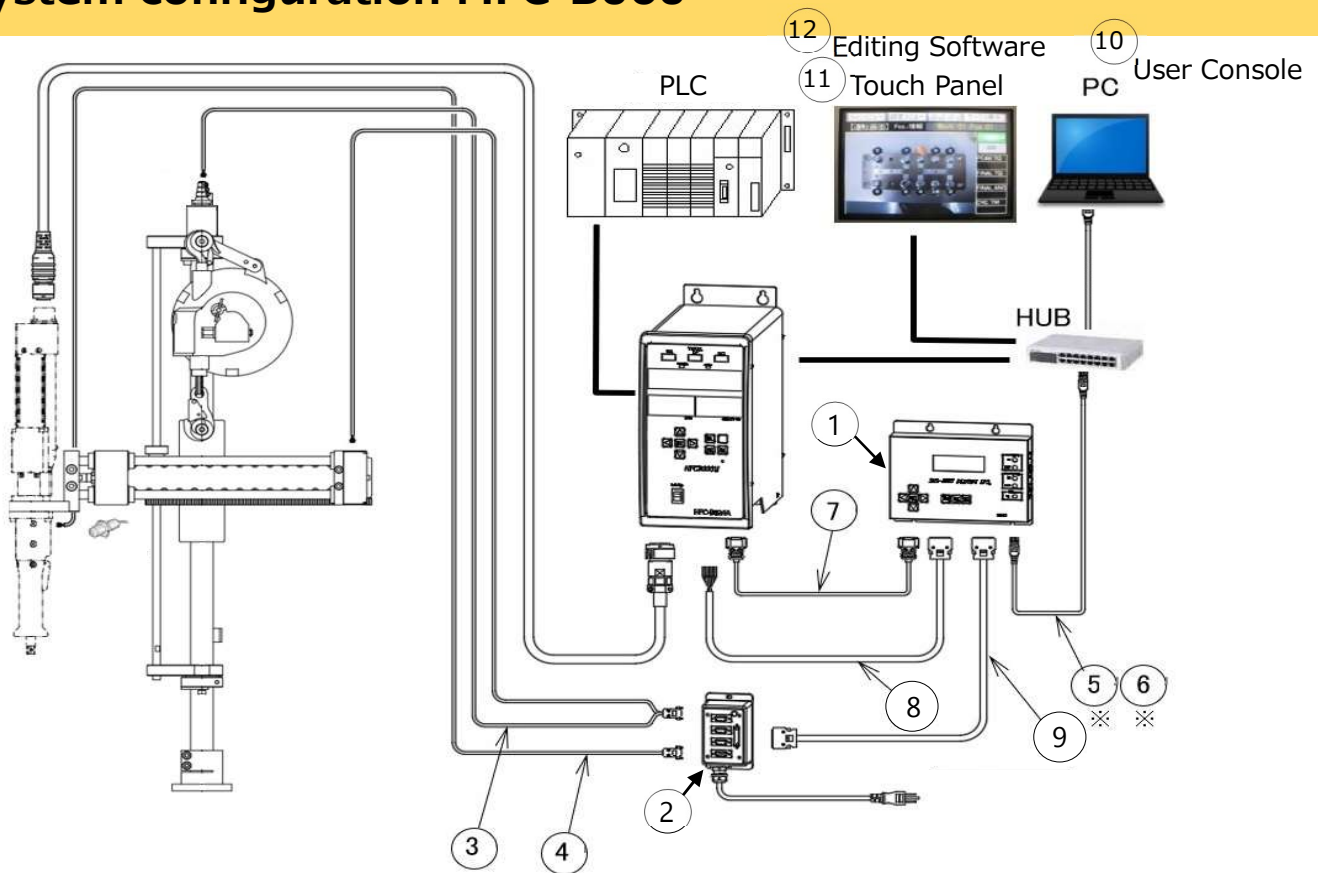
Model	Direction	Positioning	Max Torque [Nm]	Applicable Tool	
TAR40P1-X20004 (15T-20004)	R	○	40	CFT-101RS1-S/SL CFT-201RS1-S/SL CFT-281RS1-S/SL CFT-401RS1-S/SL	A
TAL40P1-X20005 (15T-20005)	L			CFT-051RS1-S/SL NFT-101RM1-S NFT-201RM1-S NFT-401RM1-S	B
TAR40N1-X20006 (15T-20006)	R	-		HFT-010M50-S1-20/-CE HFT-015M80-S1-20/-CE HFT-025M80-S1-20/-CE HFT-040M80-S-20/-CE	C
TAL40N1-X20007 (15T-20007)	L				

Grip & Tool Plate

Grip type	Model	Tool Plate	Grip Switch Cable	Applicable Tool
Swivel	TA40-GR1-X18011 (NPN) TA40-GR1-X21007 (PNP)	TA40-TP1-C1-GR-X20004	5m:	A
		TA40-TP1-C2-GR-X20004	15T-18011-E-G01	B
		TA40-TP1-H1-GR-X20004	10m: 15T-18011-E-G02	C
Fix	TA40-GF1 (NPN&PNP)	TA40-TP1-C1-GF-X20004	5m:	A
		TA40-TP1-C2-GF-X20004	15T-20016E-G01 (NPN) 15T-20016E-G02 (PNP)	B
		TA40-TP1-H1-GF-X20004	10m: 15T-20016E-G03 (NPN) 15T-20016E-G04 (PNP)	C

*1: The cable which for grip switch without positioning

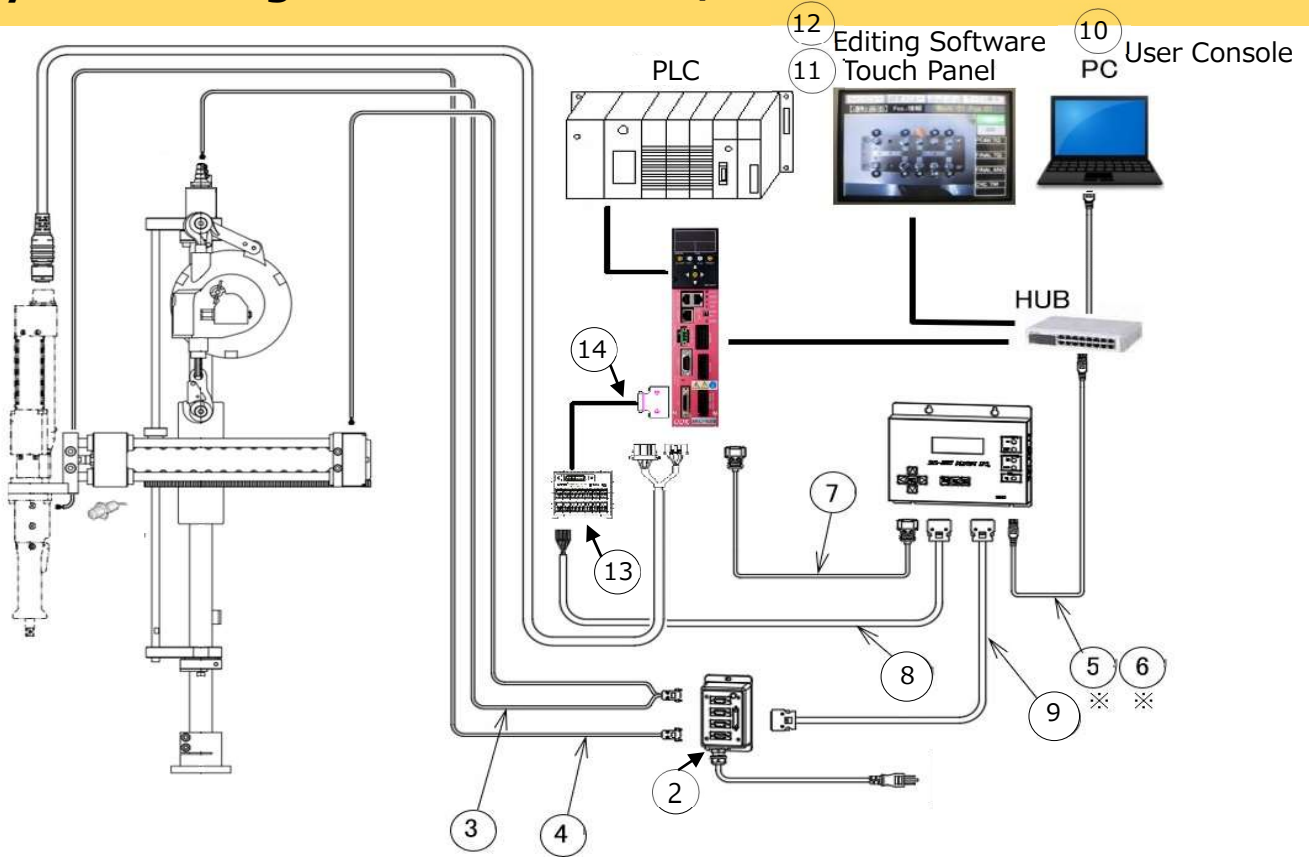
System configuration MFC-B060



No	Description	Model	Applicable Model/ Note	No	Description	Model	Applicable Model/ Note
1	Positioning Controller	PSA-C1		5	LAN cable (Crossover)	C30-UL1-M3	Not via HUB
2	Joint Box	PSA-JB1-P		6	LAN cable (Straight Through)	C30-UL2-M3	Via HUB
3	PSA to JB1 Sensor cable	X,Y: CPA-ME1-G01 X,Y,Z: *1	Swivel Arm	7	RS232C cable	CPA-TU1-M3	
		X,Y: CPA-ME1-G02 X,Y,Z: *1	Sliding Arm	8	Controller IO cable	CPA-SU1-M3	
4	PSA-JB1 IO cable	CPA-IO1-G01	Swivel Arm Swivel Grip	9	PSA to JB1 cable	CPA-JA1-M2	
		CPA-IO1-G02	Swivel Arm Fix Grip	10	User Console	PSA-UC-N	
		CPA-IO1-G05	Sliding Arm Swivel Grip	11	Touch Panel	PSA-4301TM	
		CPA-IO1-G06	Sliding Arm Fix Grip	12	Editing Software	-	

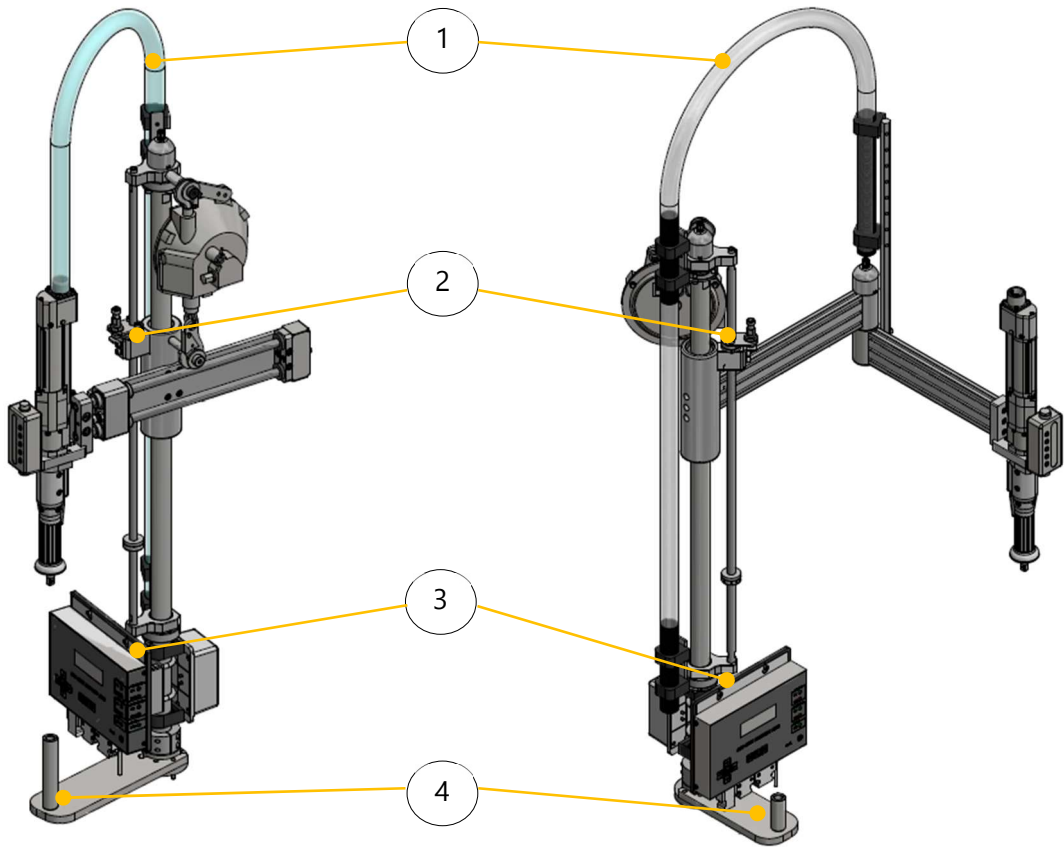
*1 Please contact us for details.
 * All models listed are PNP specifications, please contact us for the details of NPN specification.
 * Please contact us to change the cable length.

System configuration MFC-S024/060



No	Description	Model	Applicable Model/ Note	No	Description	Model	Applicable Model/ Note
1	Positioning Controller	PSA-C1		5	LAN cable (Crossover)	C30-UL1-M3	Not via HUB
2	Joint Box	PSA-JB1-P		6	LAN cable (Straight Through)	C30-UL2-M3	Via HUB
3	PSA to JB1 Sensor cable	X,Y: CPA-ME1-G01 X,Y,Z: *1	Swivel Arm	7	RS232C cable	CPA-TU1-M3	
		X,Y: CPA-ME1-G02 X,Y,Z: *1	Sliding Arm	8	Controller IO cable	CPA-SU1-M3	
4	PSA-JB1 IO cable PSA-JB1 IO cable	CPA-IO1-G01	Swivel Arm Swivel Grip	9	PSA to JB1 cable	CPA-JA1-M2	
		CPA-IO1-G02	Swivel Arm Fix Grip	10	User Console	PSA-UC-N	
		CPA-IO1-G05	Sliding Arm Swivel Grip	11	Touch Panel	PSA-4301TM	
		CPA-IO1-G06	Swivel Arm Fix Grip	12	Editing Software	-	
				13	Controller IO Terminal block	IM-MDR739-3.5-26PC	(MISUMI)
				14	IO Terminal block cable	SHPT-HH-A-26-1	(WAGO)
				*1 Please contact us for details.			
				* All models listed are PNP specifications, please contact us for the details of NPN specification.			
				* Please contact us to change the cable length.			

Applications



No	Description	Model	Sliding	Swivel	Remarks
1	Cable support	15T-20008-CS	-	○	-
		15T-20009-CS	○	-	-
2	Upward sensor	15T-20008-ES	○	○	
3	Controller attach bracket	15T-20004-CB1	○	○	Attach to controller (MFC-B060)
		15T-20004-CB2	○	○	Attach to arm
4	Origin coordinate bracket	15T-20004-HB	-	○	
		15T-20008-HB	○	-	
-	Swivel stopper	15T-20004-RS	○	○	
-	Lamp box				

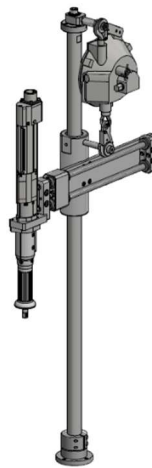
Custom



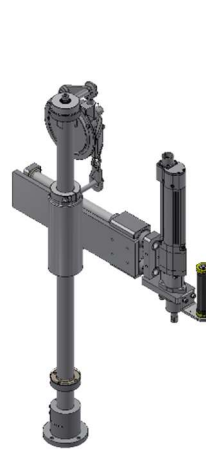
Small Screw 2.4Nm
15T-21011



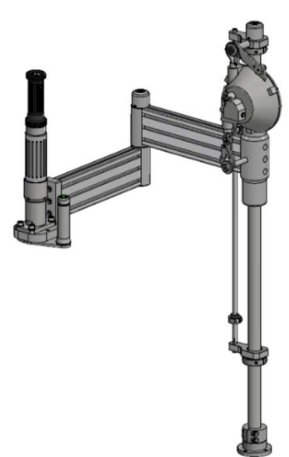
Slide Change 40Nm
15T-24001



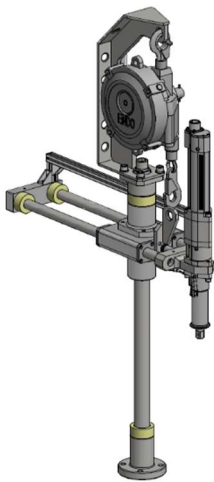
Height Change 40Nm
16H-19010



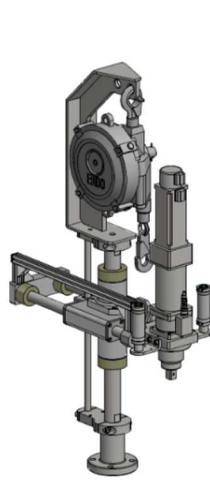
High Torque 80Nm
15T-22006



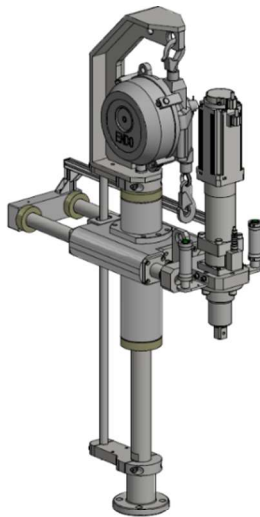
High Torque 130Nm



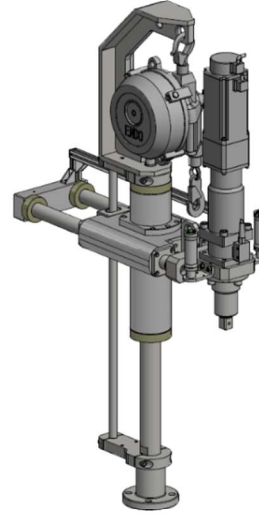
High Torque 200Nm
15T-19009(With grip)
15T-23008(No grip)



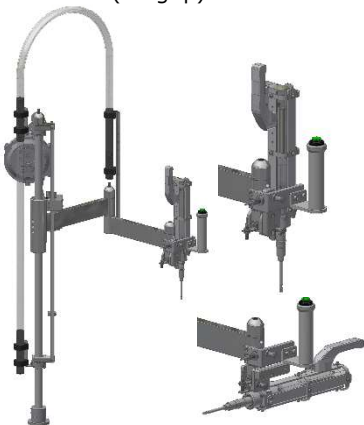
High Torque 300Nm
15T-20020



High Torque 500Nm
15T-20019



High Torque 800Nm
15T-20017



Vertical/horizontal switching 20Nm
15T-22003



Horizontal 40Nm
15T-20011



Fix Grip

- 12.7mm:15T-08004
- 15.9mm:15T-19009



Push to start Grip

- 9.5mm:15T-20002

Note) Product specifications and design are subject to change without notice.