

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 100 W/200 W/400 W/750 W
- 2-axis combination X-Y axes (A type)

Sales of ETS-210A to ETS-440A terminated.

RoHS

How to order

ETS - 210 A 1 - 040 030 - M N W

A Combined axes	
210	ETS-06 × ETS-05
430	ETS-12 × ETS-10
440	ETS-12 × ETS-12
650	ETS-14 × ETS-13
760	ETS-17 × ETS-14
870	ETS-22 × ETS-17

B Combination	
A	X-Y axes

C Combination direction	
1 to 4	Confirm the table below.

D 1st axis stroke	
010	100 mm to (50 mm pitch)
150	1500 mm

E 2nd axis stroke	
005	50 mm to (50 mm pitch)
075	750 mm

G Brake *1	
N	None

H Origin/Limit sensor (3 pcs × 2 axes) *2	
N	None
W	Yes

F Mounted motor specification *3	
M	Select the mounted motor specification from the table below.
Y	
P	
O	

F Mounted motor specification

Manufacturer	100 W	200 W	400 W	750 W
Mitsubishi Electric Corporation	M	M	M	M
Delta Electronics Co., Ltd.	M	M	M	M
Sanyo Denki Co., Ltd.	M	M	M	-
YASKAWA Electric Corporation	Y	Y	Y	Y
Keyence Corporation	Y	Y	Y	Y
Panasonic Corporation	P	P	P	P
OMRON Corporation	O	O	O	O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

*Refer to page 164 for the motor model No.

C Combination direction

A1	A2	A3	A4

Discontinued some variations

Sales of ETS-210A to ETS-440A terminated.

ETS Multi-Axis Series

Specifications (X-Y axes)

Axis combination specifications

Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity										
			1st axis					2nd axis					
			Model	100 W	200 W	400 W	750 W	Model	100 W	200 W	400 W	750 W	
ETS-210	A	1	ETS-06	E	-	-	-	ETS-05	R	-	-	-	
		2		E	-	-	-		L	-	-	-	
		3		E	-	-	-		L	-	-	-	
		4		E	-	-	-		R	-	-	-	
ETS-430	A	1	ETS-12	B	-	-	-	ETS-10	R	-	-	-	
		2		B	-	-	-		L	-	-	-	
		3		B	-	-	-		L	-	-	-	
		4		B	-	-	-		R	-	-	-	
ETS-440 *1	A	1	ETS-12	B	-	-	-	ETS-12	R	-	-	-	
		2		B	-	-	-		L	-	-	-	
		3		B	-	-	-		L	-	-	-	
		4		B	-	-	-		R	-	-	-	
ETS-650	A	1 to 4	ETS-14	-	-	B	-	ETS-13	-	B	-	-	
ETS-760	A	1 to 4	ETS-17	-	-	B	-	ETS-14	-	B	-	-	
ETS-870	A	1 to 4	ETS-22	-	-	-	B	ETS-17	-	-	B	-	

*E: Straight mount B: Built-in mount R: Right side mount L: Left side mount

*Motor mounting direction is determined by combination direction.

*1: Contact CKD when using an OMRON motor.

stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-210	A	ETS-06	10	100 to 800	ETS-05	10	50 to 350
ETS-430		ETS-12	20	100 to 1050	ETS-10	20	50 to 550
ETS-440		ETS-12	20	100 to 1050	ETS-12	20	50 to 550
ETS-650	A	ETS-14	20	100 to 1050	ETS-13	20	50 to 650
ETS-760		ETS-17	20	100 to 1250	ETS-14	20	50 to 650
ETS-870		ETS-22	25	100 to 1500	ETS-17	20	50 to 750

Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis		Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position				Model	Grease nipple position	Model	Grease nipple position
ETS-210	A	1	ETS-06	-	ETS-05	-	ETS-650	A	1	ETS-14	L	ETS-13	R
		2							2		L		L
		3							3		R		L
		4							4		R		R
ETS-430	A	1	ETS-12	L	ETS-10	R	ETS-760	A	1	ETS-17	L	ETS-14	R
		2		L		L			2		L		L
		3		R		L			3		R		L
		4		R		R			4		R		R
ETS-440	A	1	ETS-12	L	ETS-12	R	ETS-870	A	1	ETS-22	L	ETS-17	R
		2		L		L			2		L		L
		3		R		L			3		R		L
		4		R		R			4		R		R

*The grease nipple is not attached for ETS-05 and 06.

R: Right side L: Left side

Servo motor compatible

Stepper motor compatible

Safety precautions

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 400 W/200 W
- 2-axis combination X-Y axes (A type)

RoHS

How to order

ETS - 650 A 1 - 040 030 - M N W

A Combined axes
650 ETS-14 × ETS-13

B Combination
A X-Y axes

C Combination direction
1 to 4 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
105 1050 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
065 650 mm

G Brake *1
N None

H Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

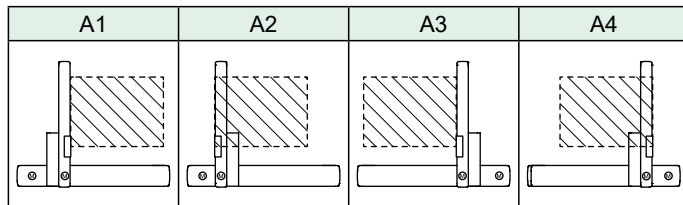
F Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



F Mounted motor specification

Manufacturer	200 W	400 W
Mitsubishi Electric Corporation	M	M
Delta Electronics Co., Ltd.	M	M
Sanyo Denki Co., Ltd.	M	M
YASKAWA Electric Corporation	Y	Y
Keyence Corporation	Y	Y
Panasonic Corporation	P	P
OMRON Corporation	O	O

*Refer to page 164 for the recommended motor model No.

C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	400 W	Model	200 W
ETS-650	A	1	ETS-14	B	ETS-13	B
		2		B		B
		3		B		B
		4		B		B

*B: Built-in mount

D E stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-650	A	ETS-14	20	100 to 1050	ETS-13	20	50 to 650

Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-650	A	1	ETS-14	L	ETS-13	R
		2		L		L
		3		R		L
		4		R		R

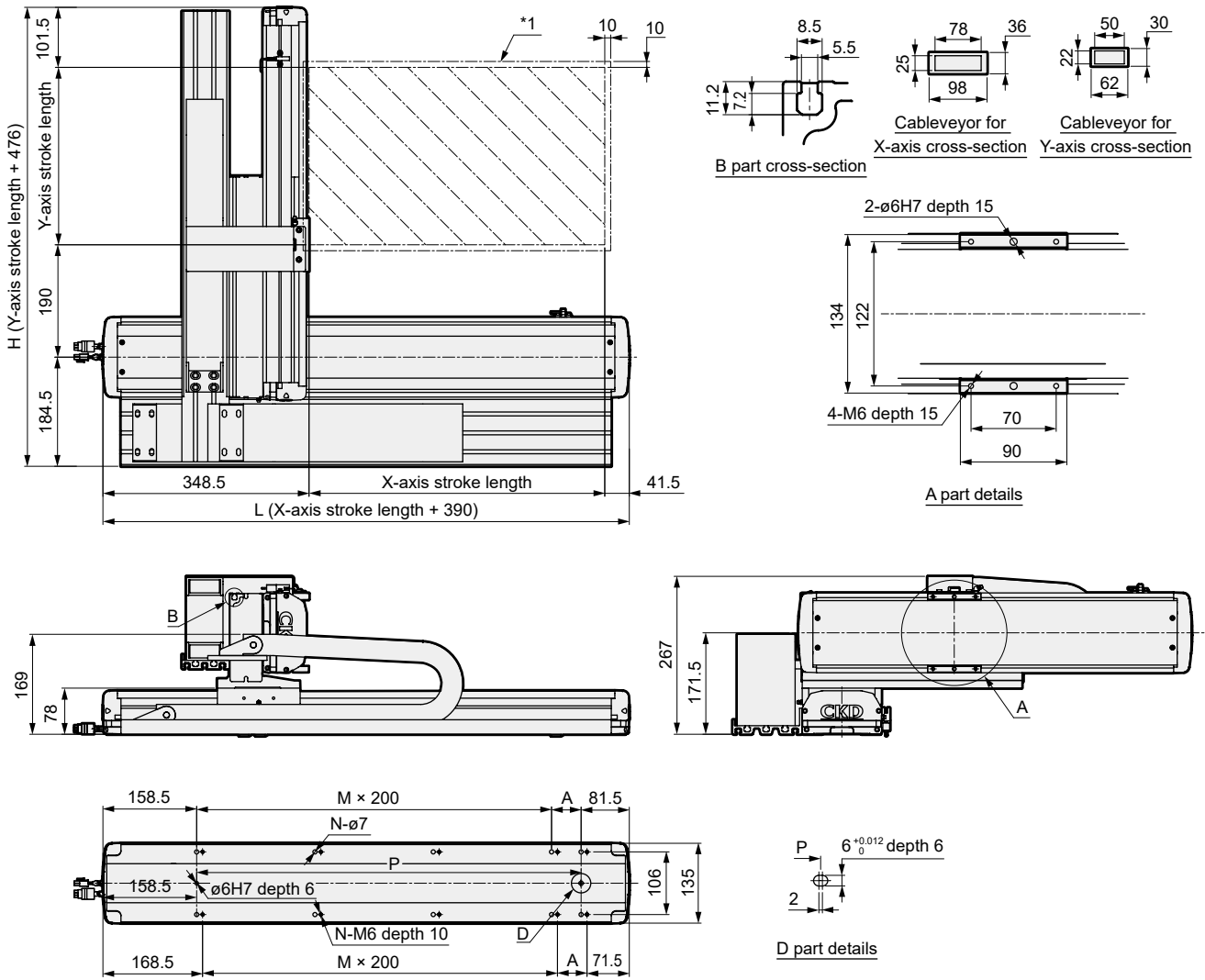
Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Y axes)

Dimensions

● ETS-650A1



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000															900	800	700	600	500

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	526	576	626	676	726	776	826	876	926	976	1026	1076	1126
Max. working speed (mm/s)	1000												
Max. load capacity (kg)	24	20	17	15	13	11	9						

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-13	Y				200 W	M5 4
	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

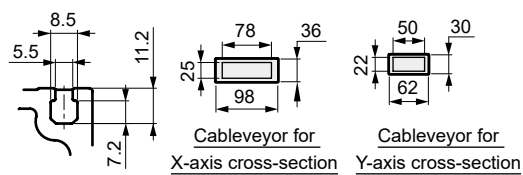
Cableveyor, axis combination bracket

Discontinued some variations

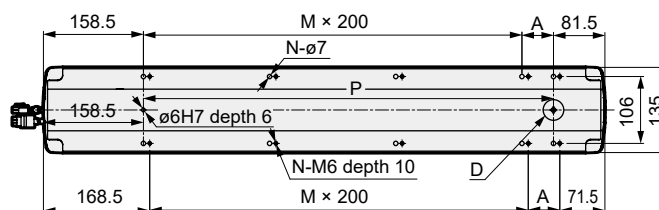
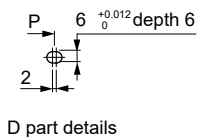
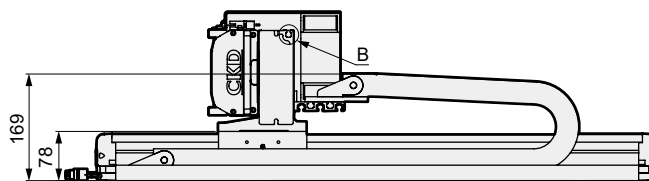
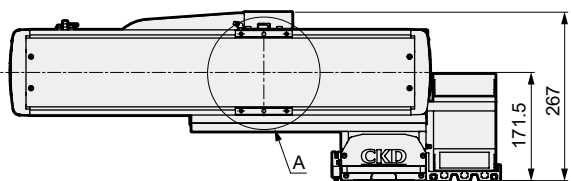
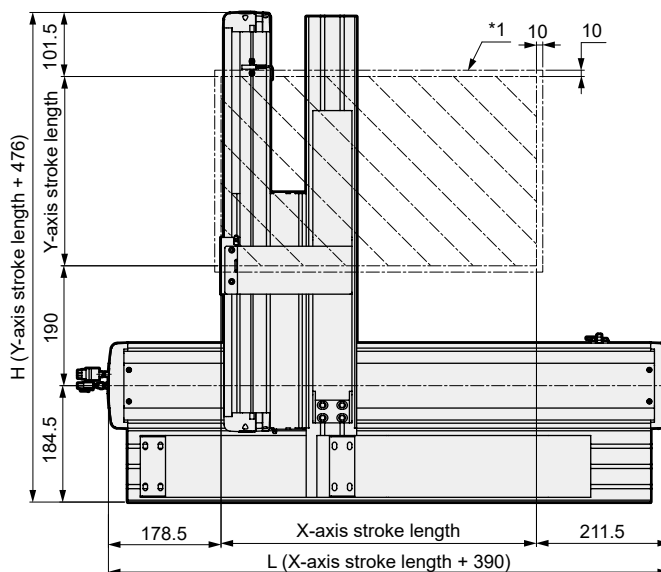
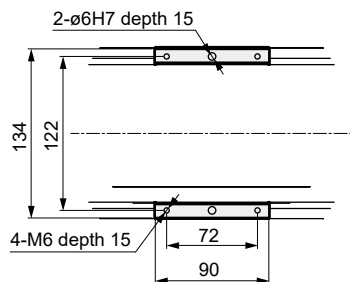
ETS Multi-Axis Series

Dimensions

● ETS-650A2



B part cross-section



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000														900	800	700	600	500	400
Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650							
H	526	576	626	676	726	776	826	876	926	976	1026	1076	1126							
Max. working speed (mm/s)	1000																			
Max. load capacity (kg)	24	20	17	15	13	11	9													

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-13	Y				200 W	M5 4
	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

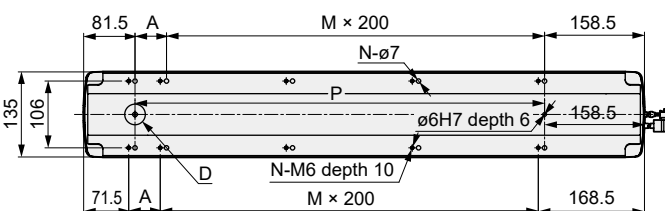
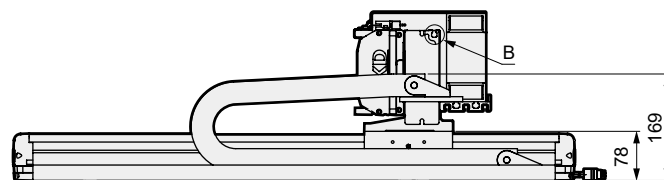
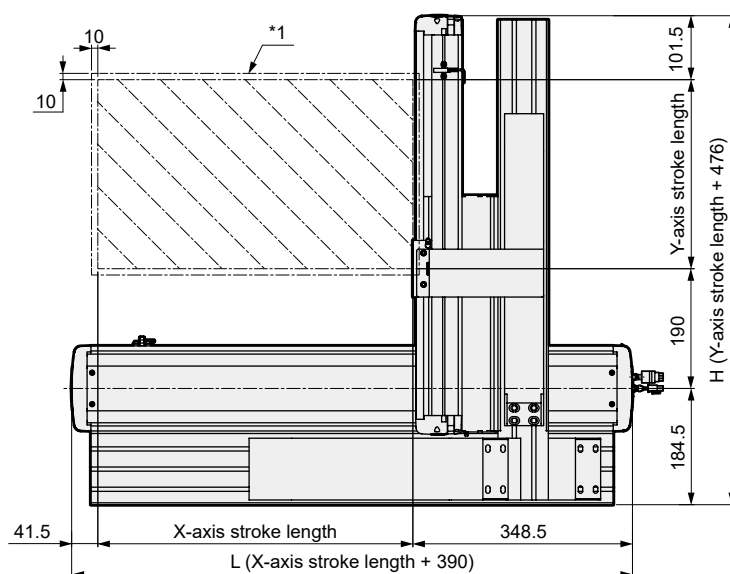
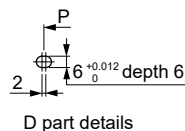
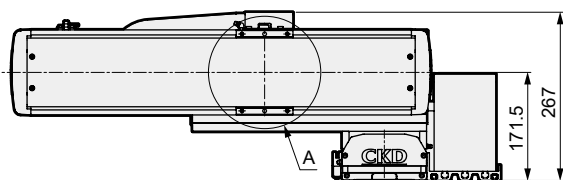
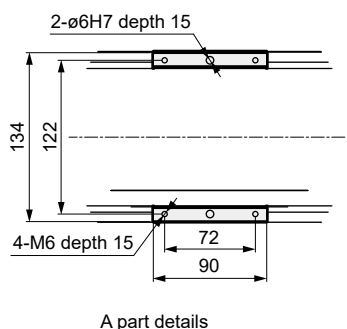
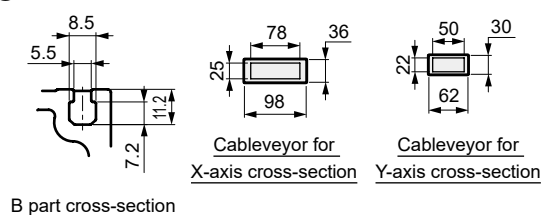
Cableveyor, axis combination bracket

ETS Multi-Axis Series

Dimensions (X-Y axes)

Dimensions

● ETS-650A3



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000														900	800	700	600	500	400
Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650							
H	526	576	626	676	726	776	826	876	926	976	1026	1076	1126							
Max. working speed (mm/s)	1000																			
Max. load capacity (kg)	24	20		17		15		13		11		9								

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt	
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5	4
	Y					M5	4
ETS-13	P				200 W	M4	4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

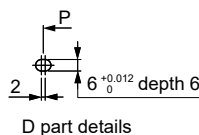
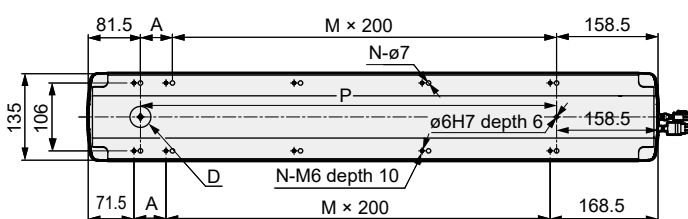
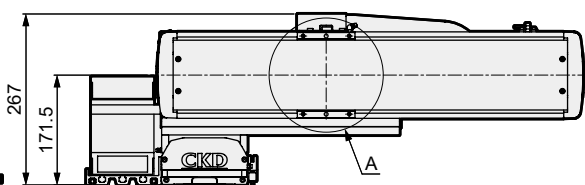
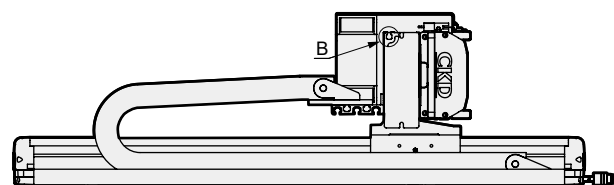
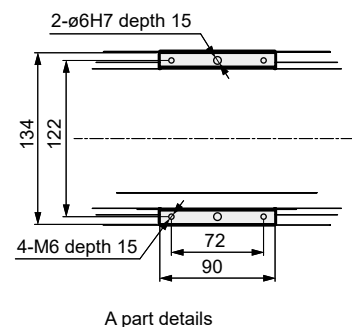
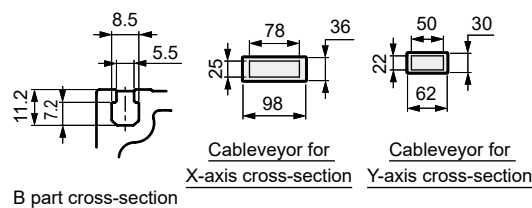
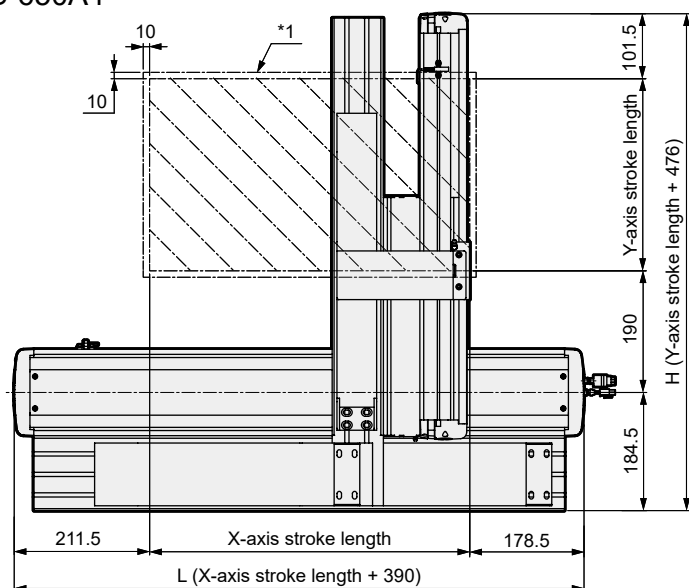
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-650A4



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000														900	800	700	600	500	400
Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650							
H	526	576	626	676	726	776	826	876	926	976	1026	1076	1126							
Max. working speed (mm/s)	1000																			
Max. load capacity (kg)	24	20	17	15	13	11	9													

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-13	Y					M5 4
ETS-13	P				200 W	M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Y axes)

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 400 W/200 W
- 2-axis combination X-Y axes (A type)

RoHS

How to order

ETS - 760 A 1 - 040 030 - M N W

A Combined axes
760 ETS-17 × ETS-14

B Combination
A X-Y axes

C Combination direction
1 to 4 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
125 1250 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
065 650 mm

G Brake *1
N None

H Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

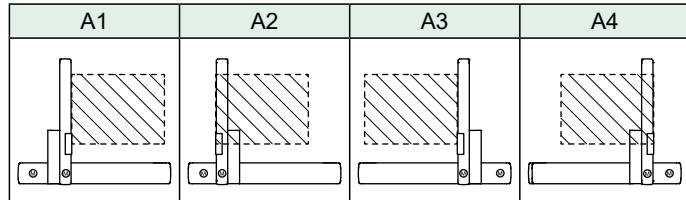
F Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



F Mounted motor specification

Manufacturer	200 W	400 W
Mitsubishi Electric Corporation	M	M
Delta Electronics Co., Ltd.	M	M
Sanyo Denki Co., Ltd.	M	M
YASKAWA Electric Corporation	Y	Y
Keyence Corporation	Y	Y
Panasonic Corporation	P	P
OMRON Corporation	O	O

*Refer to page 164 for the recommended motor model No.

C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	400 W	Model	200 W
ETS-760	A	1	ETS-17	B	ETS-14	B
		2		B		B
		3		B		B
		4		B		B

*B: Built-in mount

D stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-760	A	ETS-17	20	100 to 1250	ETS-14	20	50 to 650

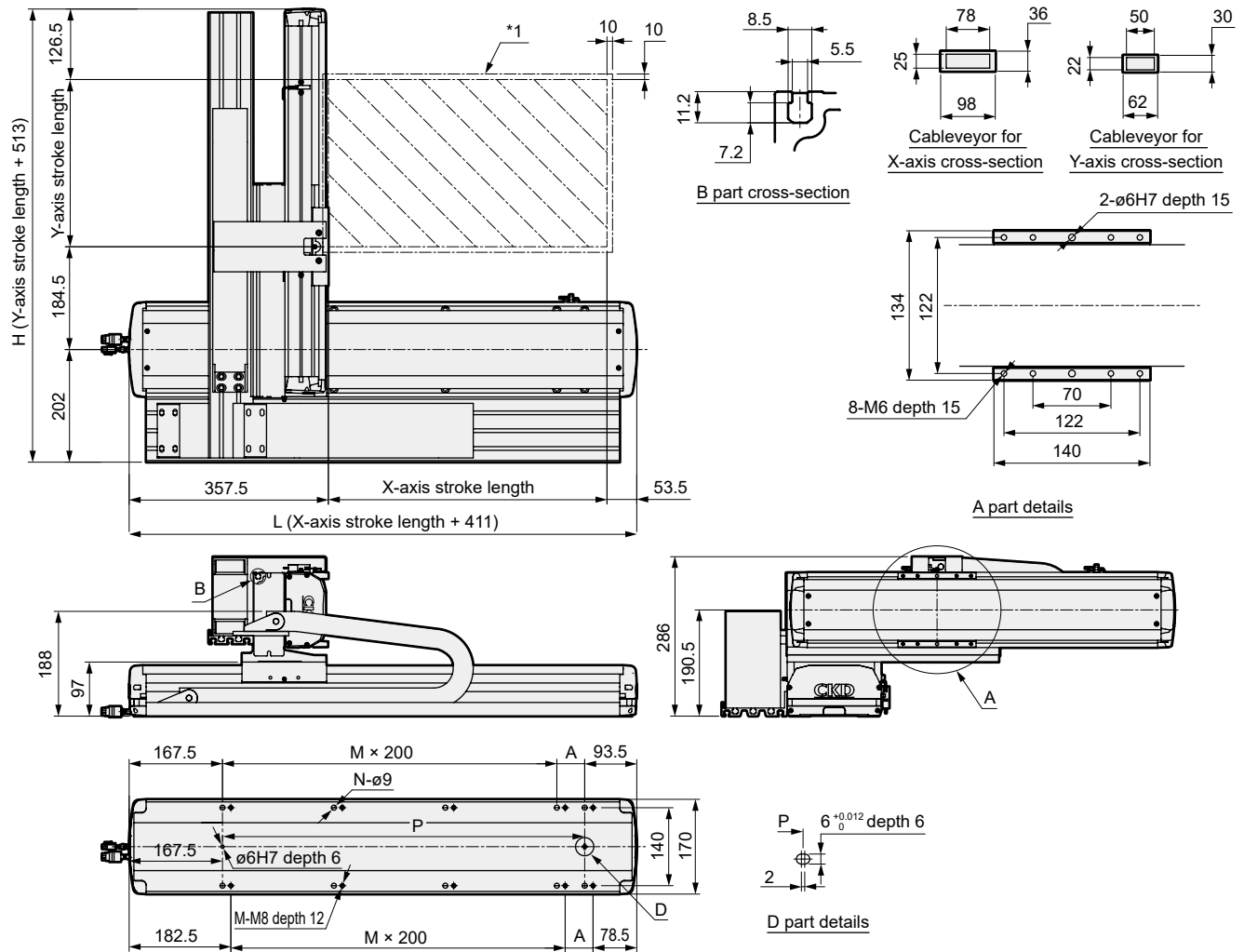
Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-760	A	1	ETS-17	L	ETS-14	R
		2		L		L
		3		R		L
		4		R		R

*R: Right side L: Left side

Dimensions

● ETS-760A1



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000																900	800		

X-axis stroke (mm)	1100	1150	1200	1250
L	1511	1561	1611	1661
A	50	100	150	200
M	6	6	6	6
N	16	16	16	16
P	1250	1300	1350	1400
Max. working speed (mm/s)	700		600	

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163
Max. working speed (mm/s)	1000												
Max. load capacity (kg)	30					25			20			16	

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-14	Y				200 W	M5 4
	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

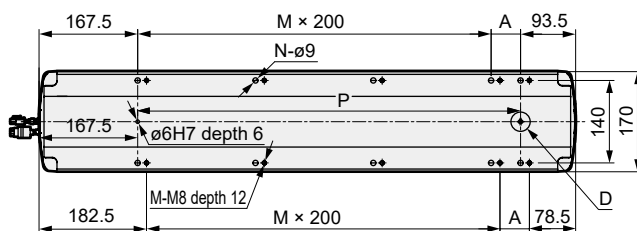
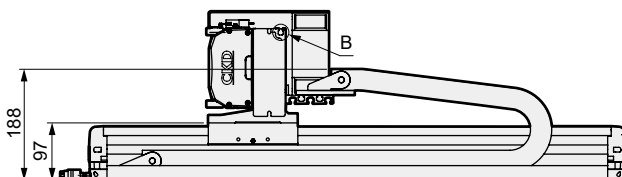
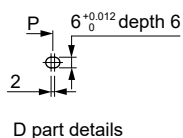
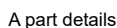
*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

ETS Multi-Axis Series

● ETS-760A2



*This figure shows the dimensions when combined.

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163
Max. working speed (mm/s)	1000												
Max. load capacity (kg)	30					25			20			16	

[Motor mounting parts]

[Origin sensor/Limit sensor]

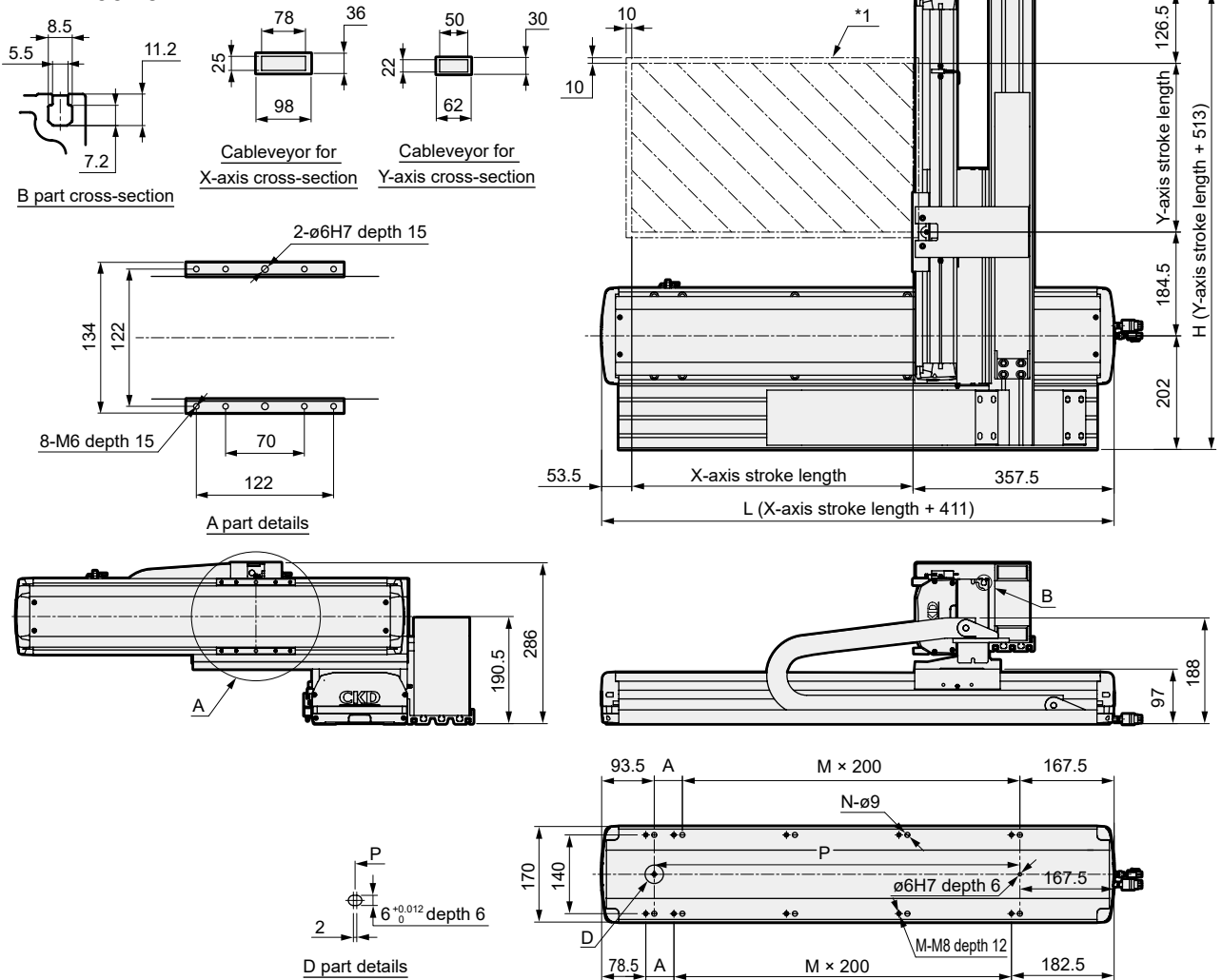
*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

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Dimensions

● ETS-760A3



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000																900		800	

X-axis stroke (mm)	1100	1150	1200	1250
L	1511	1561	1611	1661
A	50	100	150	200
M	6	6	6	6
N	16	16	16	16
P	1250	1300	1350	1400
Max. working speed (mm/s)	700		600	

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163
Max. working speed (mm/s)	1000												
Max. load capacity (kg)	30					25			20			16	

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
	Y					M5 4
ETS-14	P				200 W	M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

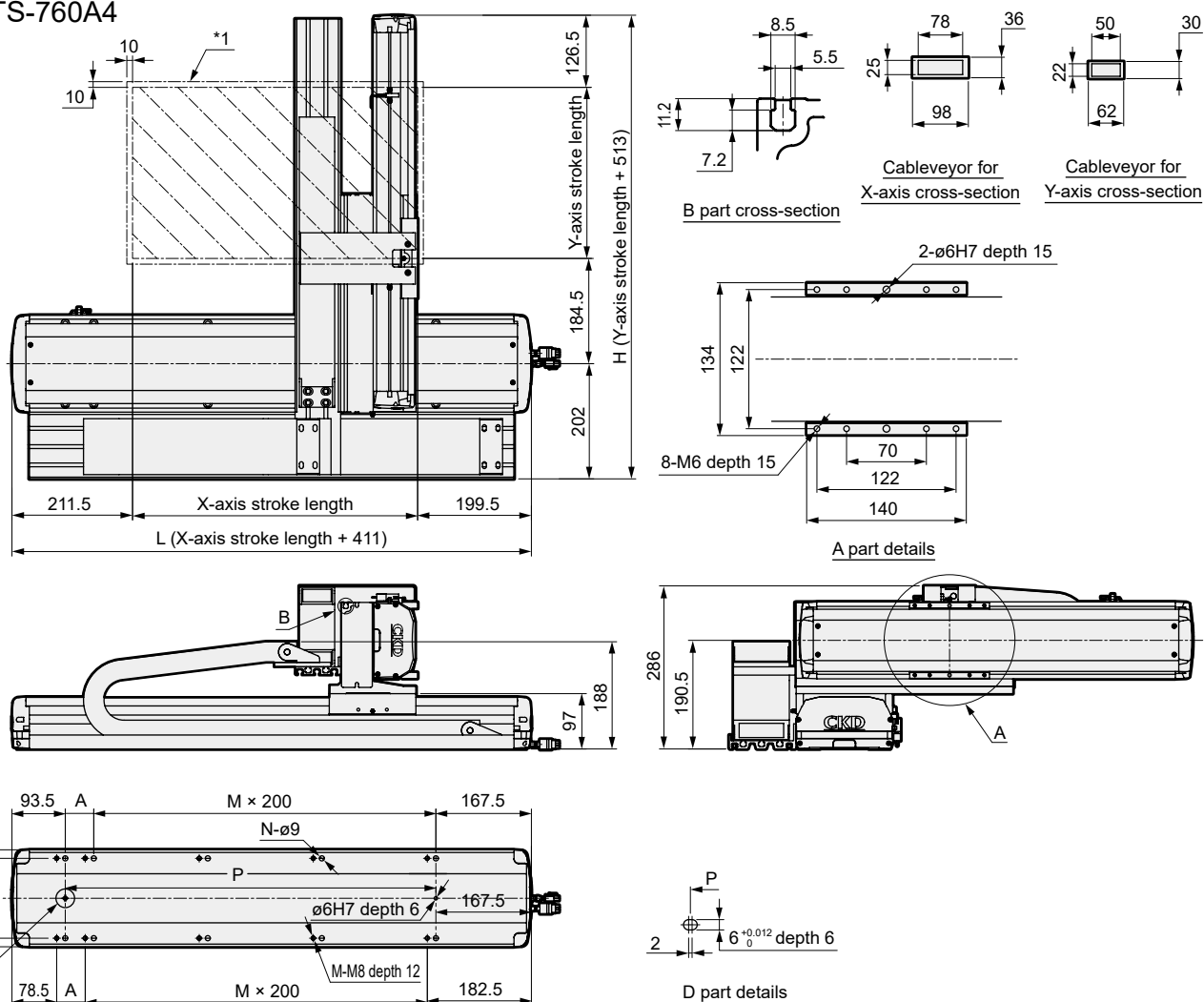
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-760A4



*1: Stops within the moving range and this range when returning to origin.

*This figure shows the dimensions when combined.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000																900		800	

X-axis stroke (mm)	1100	1150	1200	1250
L	1511	1561	1611	1661
A	50	100	150	200
M	6	6	6	6
N	16	16	16	16
P	1250	1300	1350	1400
Max. working speed (mm/s)	700		600	

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163
Max. working speed (mm/s)	1000												
Max. load capacity (kg)	30				25			20			16		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
	Y					M5 4
ETS-14	P				200 W	M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Y axes)

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 750 W/400 W
- 2-axis combination X-Y axes (A type)

RoHS

How to order

ETS - 870 A 1 - 040 030 - M N W

A Combined axes
870 ETS-22 × ETS-17

B Combination
A X-Y axes

C Combination direction
1 to 4 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
150 1500 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
075 750 mm

F Brake *1
N None

G Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

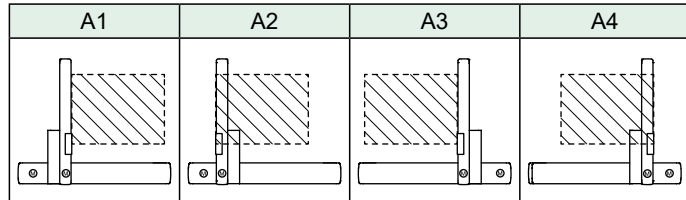
H Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	750 W	Model	400 W
ETS-870	A	1	ETS-22	B	ETS-17	B
		2		B		B
		3		B		B
		4		B		B

*B: Built-in mount

D stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-870	A	ETS-22	25	100 to 1500	ETS-17	20	50 to 750

Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-870	A	1	ETS-22	L	ETS-17	R
		2		L		L
		3		R		L
		4		R		R

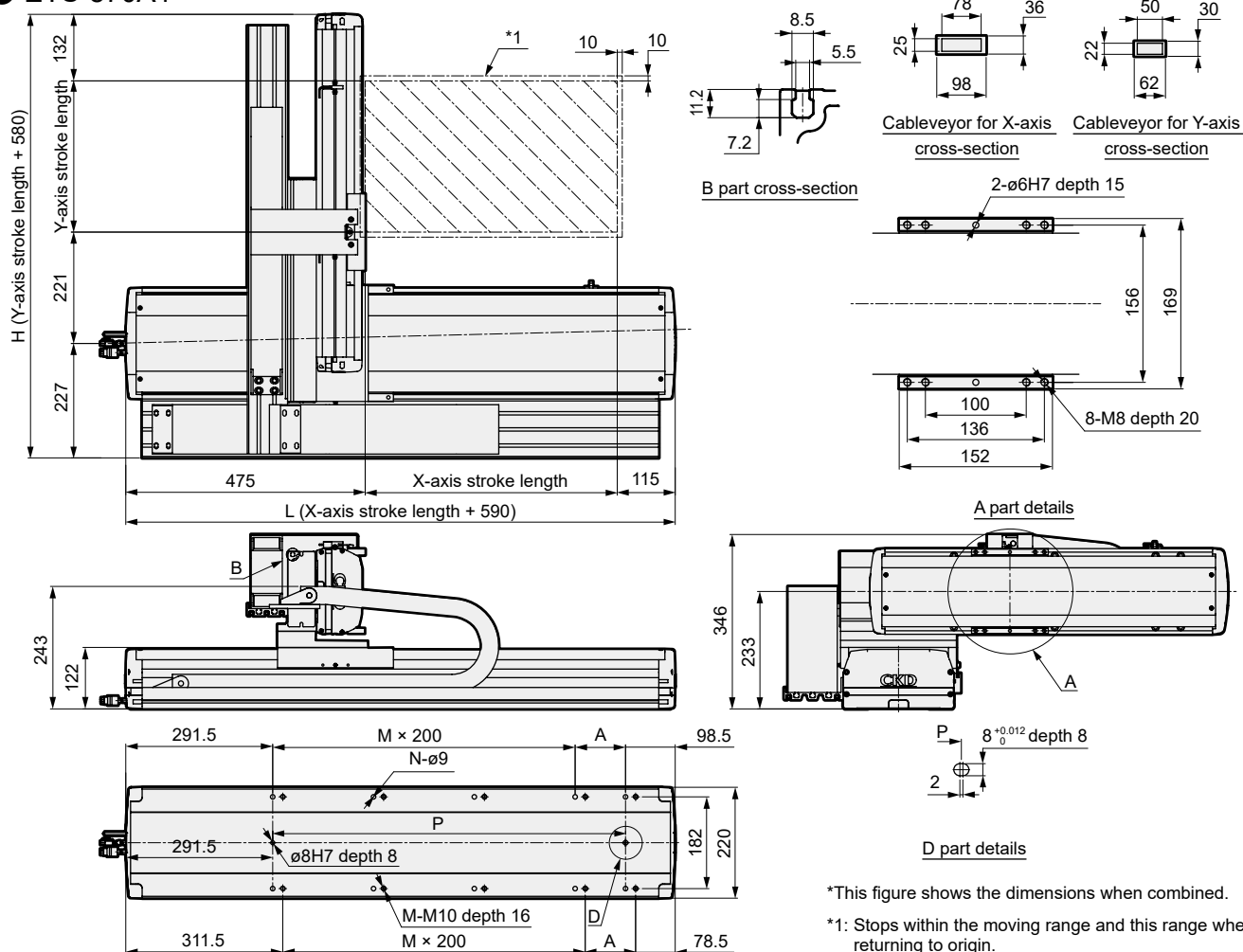
*R: Right side L: Left side

ETS Multi-Axis Series

Dimensions (X-Y axes)

Dimensions

● ETS-870A1



X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1250																	1125	

X-axis stroke (mm)	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	50	100	150	200	50	100	150	200	50	100
M	6	6	6	6	7	7	7	7	8	8
N	16	16	16	16	18	18	18	18	20	20
P	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Max. working speed (mm/s)	1000		875		750		625		500	

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Max. working speed (mm/s)	1000														
Max. load capacity (kg)	50			40			35			30			25		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt	
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6/M5	4
	Y				M6/M5	4	
ETS-17	P				M5/M4	4	

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

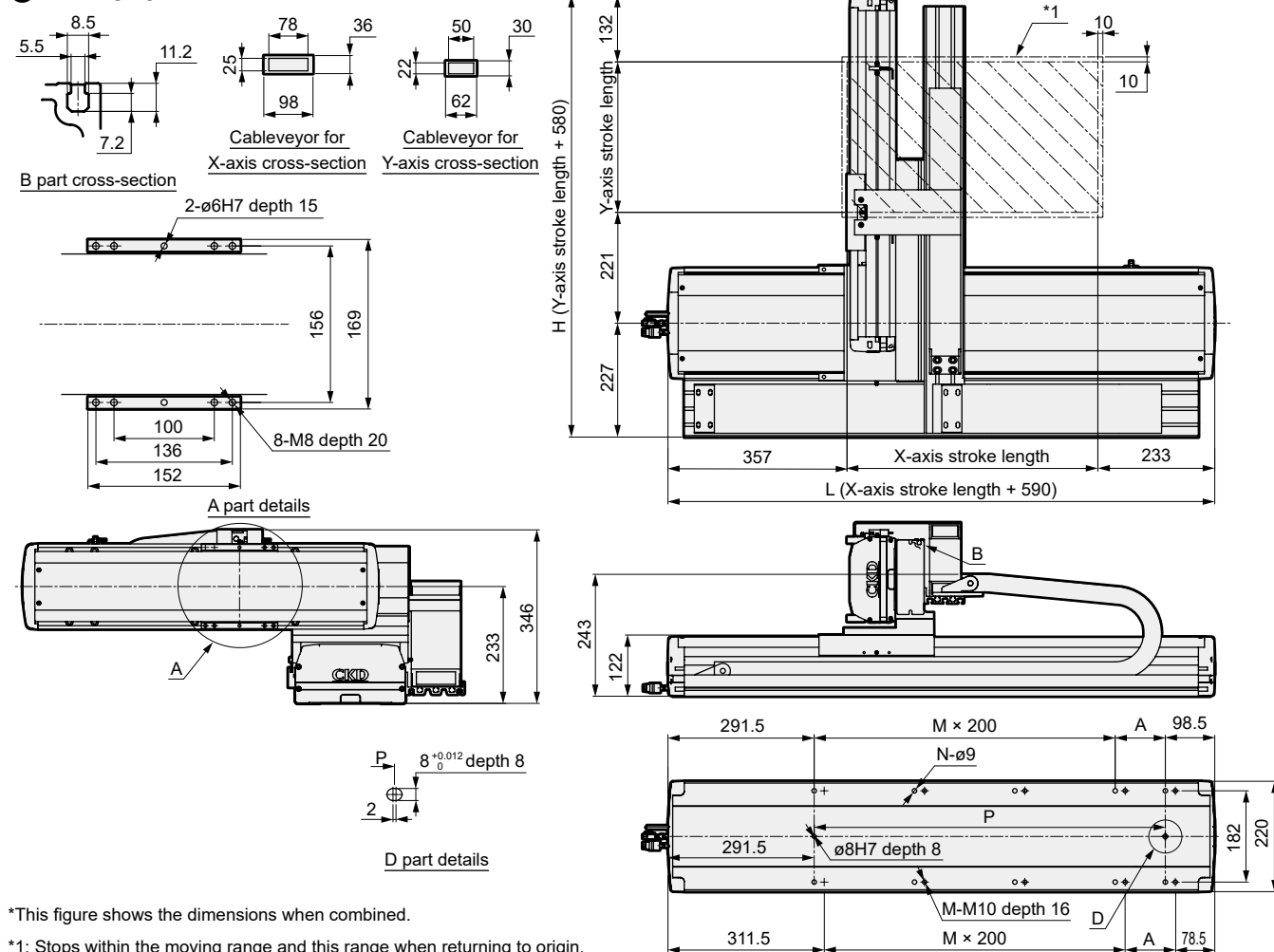
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-870A2



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590
A	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1250																		1125

X-axis stroke (mm)	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	50	100	150	200	250	300	350	400	450	500
M	6	6	6	6	7	7	7	7	8	10
N	16	16	16	16	18	18	18	18	20	20
P	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Max. working speed (mm/s)	1000									

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Max. working speed (mm/s)	1000														
Max. load capacity (kg)	50			40			35			30			25		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6/M5 4
ETS-17	Y				400 W	M6/M5 4
	P					M5/M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

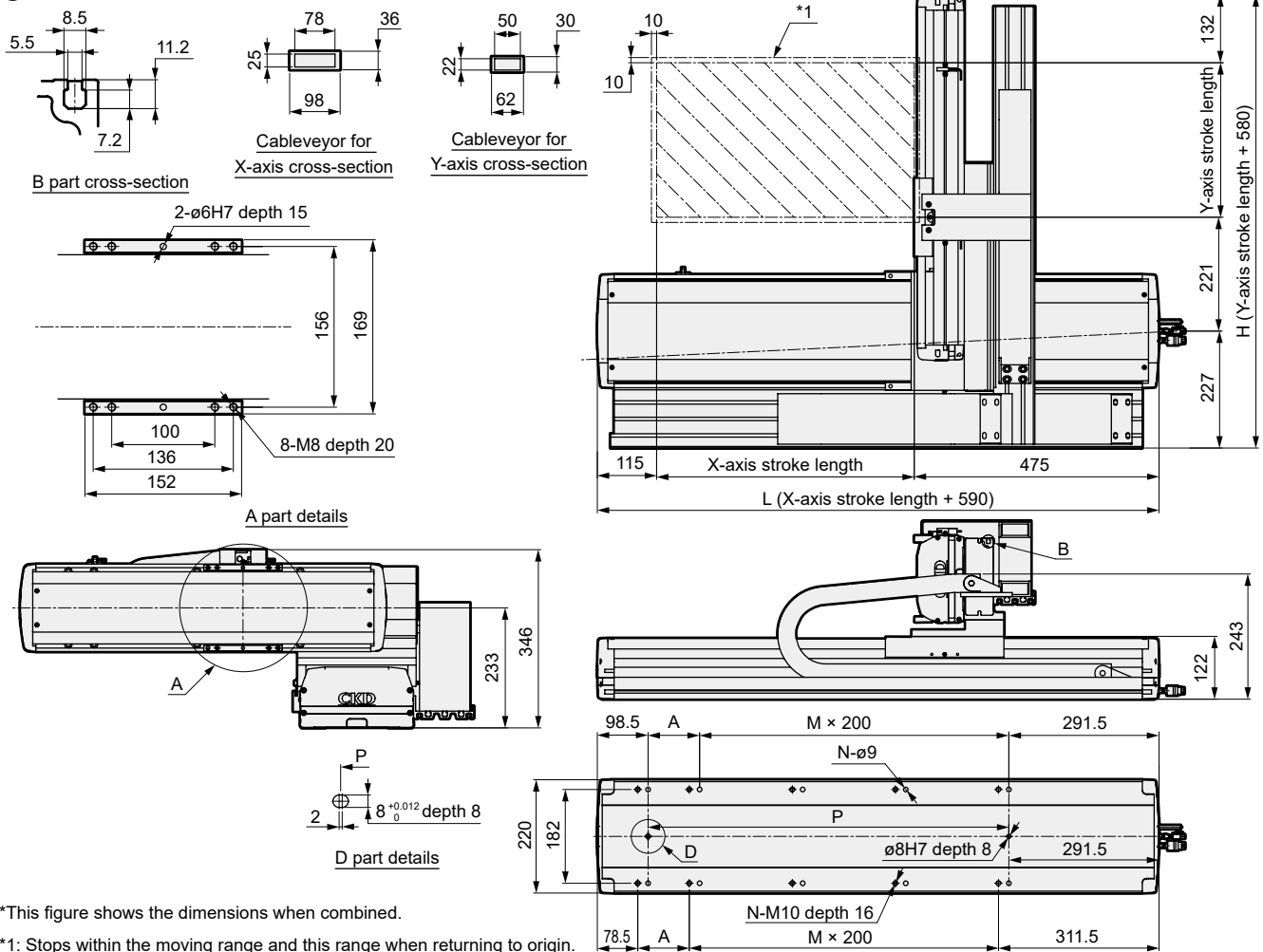
*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Dimensions

● ETS-870A3



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1250																	1125	

X-axis stroke (mm)	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	50	100	150	200	50	100	150	200	50	100
M	6	6	6	6	7	7	7	7	8	8
N	16	16	16	16	18	18	18	18	20	20
P	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Max. working speed (mm/s)	1000		875		750		625		500	

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Max. working speed (mm/s)	1000														
Max. load capacity (kg)	50			40			35			30			25		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6/M5 4
	Y				M6/M5 4	
ETS-17	P				M5/M4 4	

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

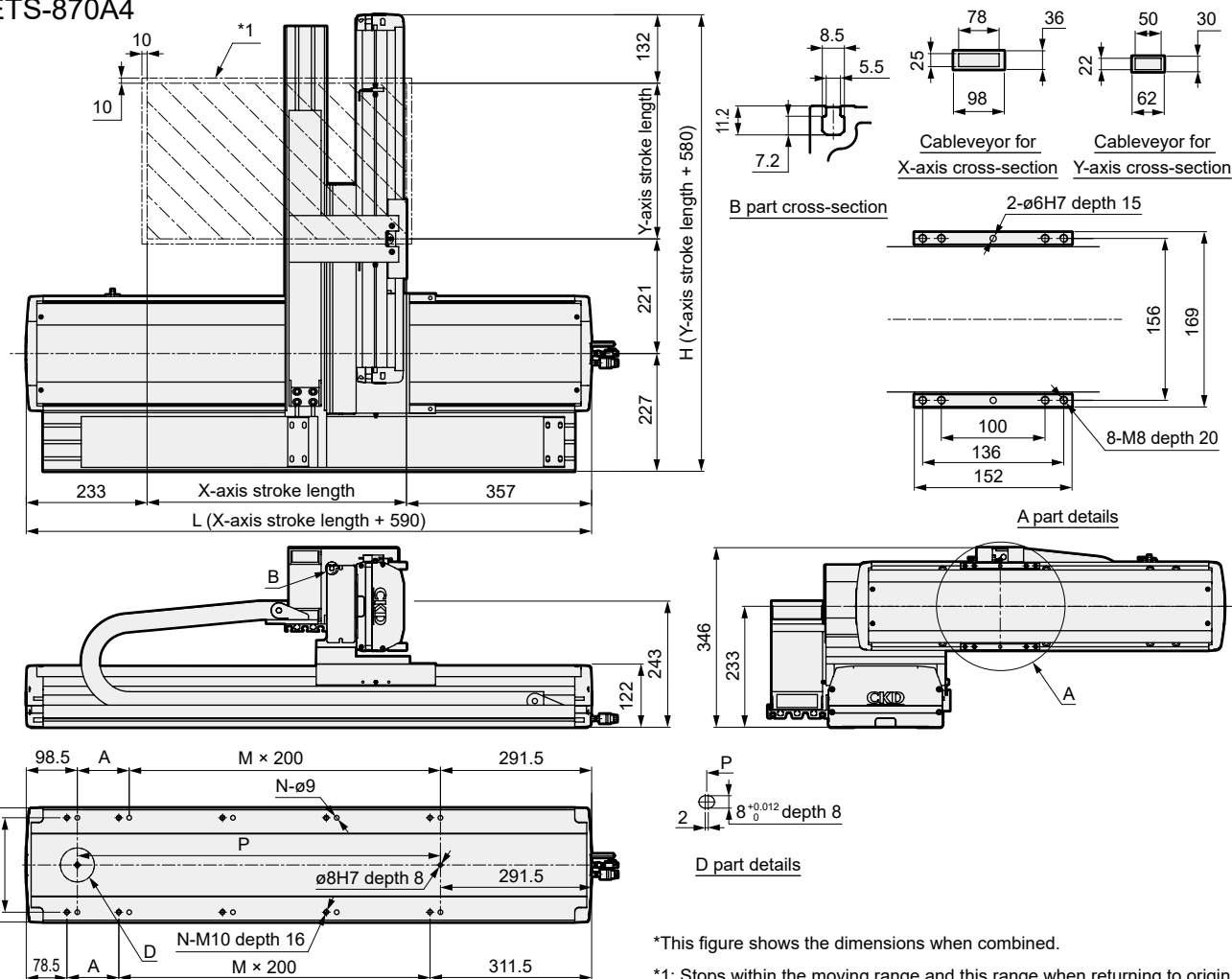
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-870A4



X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1250																		
	1125																		

X-axis stroke (mm)	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	50	100	150	200	50	100	150	200	50	100
M	6	6	6	6	7	7	7	7	8	8
N	16	16	16	16	18	18	18	18	20	20
P	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
Max. working speed (mm/s)	1000									

Y-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Max. working speed (mm/s)	1000														
Max. load capacity (kg)	50			40			35			30			25		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specification	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6/M5 4
ETS-17	Y				400 W	M6/M5 4
	P					M5/M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Y axes)

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 200 W/400 W/750 W
- 2-axis combination X-Z axes (P type)

RoHS

How to order

ETS - 650 P 1 - 040 030 - M B W

A Combined axes

650	ETS-14 × ETS-13
760	ETS-17 × ETS-14
880	ETS-22 × ETS-22

B Combination

P	X-Z axes
---	----------

C Combination direction

1, 2	Confirm the table below.
------	--------------------------

D 1st axis stroke

010	100 mm to
to	(50 mm pitch)
150	1500 mm

E 2nd axis stroke

005	50 mm to
to	(50 mm pitch)
095	950 mm

G Brake *1

B	Yes
---	-----

H Origin/Limit sensor
(3 pcs × 2 axes) *2

N	None
W	Yes

F Mounted motor specification *3

M	Select the mounted motor specification from the table below.
Y	
P	
O	

F Mounted motor specification

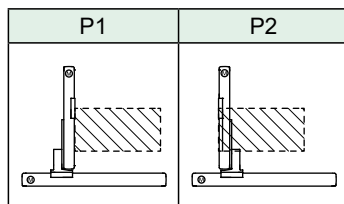
Manufacturer	200 W	400 W	750 W
Mitsubishi Electric Corporation	M	M	M
Delta Electronics Co., Ltd.	M	M	M
Sanyo Denki Co., Ltd.	M	M	-
YASKAWA Electric Corporation	Y	Y	Y
Keyence Corporation	Y	Y	Y
Panasonic Corporation	P	P	P
OMRON Corporation	O	O	O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



Axis combination specifications

Ⓒ Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity							
			1st axis				2nd axis			
			Model	200 W	400 W	750 W	Model	200 W	400 W	750 W
ETS-650	P	1.2	ETS-14	-	B	-	ETS-13	B (with brake)	-	-
ETS-760	P	1.2	ETS-17	-	B	-	ETS-14	-	B (with brake)	-
ETS-880	P	1.2	ETS-22	-	-	B	ETS-22	-	-	B (with brake)

*B: Built-in mount

ⒹⒺ stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-650	P	ETS-14	20	100 to 1050	ETS-13	10	50 to 550
ETS-760		ETS-17	20	100 to 1250	ETS-14	10	50 to 650
ETS-880		ETS-22	25	100 to 1500	ETS-22	15	50 to 950

Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-650	P	1	ETS-14	L	ETS-13	L
		2		R		L
ETS-760	P	1	ETS-17	L	ETS-14	L
		2		R		L
ETS-880	P	1	ETS-22	L	ETS-22	L
		2		R		L

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 400 W/200 W
- 2-axis combination X-Z axes (P type)

RoHS

How to order

ETS - 650 P 1 - 040 030 - M B W

A Combined axes
650 ETS-14 × ETS-13

B Combination
P X-Z axes

C Combination direction
1, 2 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
105 1050 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
055 550 mm

F Brake *1
B Yes

G Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

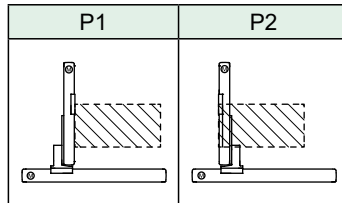
H Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	400 W	Model	200 W
ETS-650	P	1	ETS-14	B	ETS-13	B (with brake)
		2		B		B (with brake)

*B: Built-in mount

D stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-650	P	ETS-14	20	100 to 1050	ETS-13	10	50 to 550

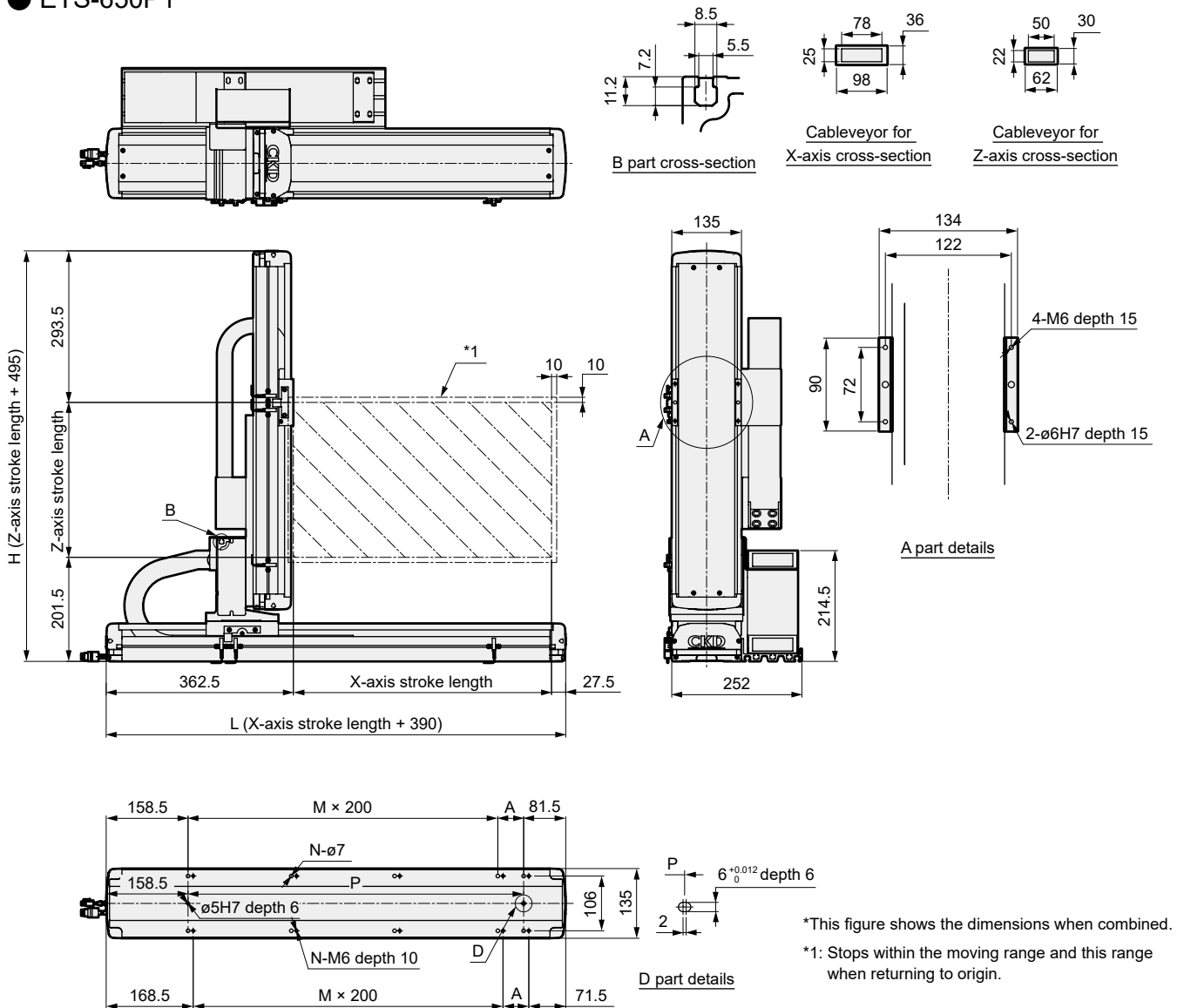
Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-650	P	1	ETS-14	L	ETS-13	L
		2		R		L

*R: Right side L: Left side

Dimensions

● ETS-650P1



X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000															900	800	700	600	500

Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550
H	545	595	645	695	745	795	845	895	945	995	1045
Max. working speed (mm/s)	500										
Max. load capacity (kg)	10										

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-13	Y				200 W	M5 4
	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

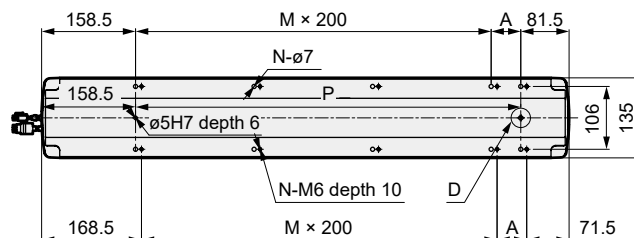
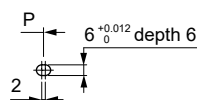
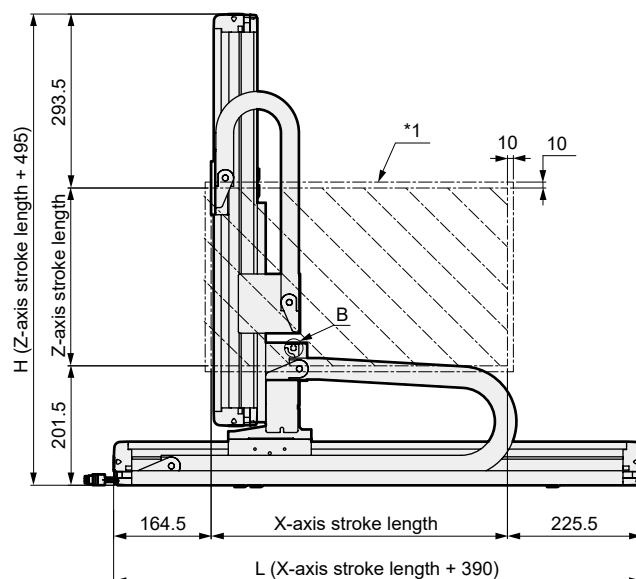
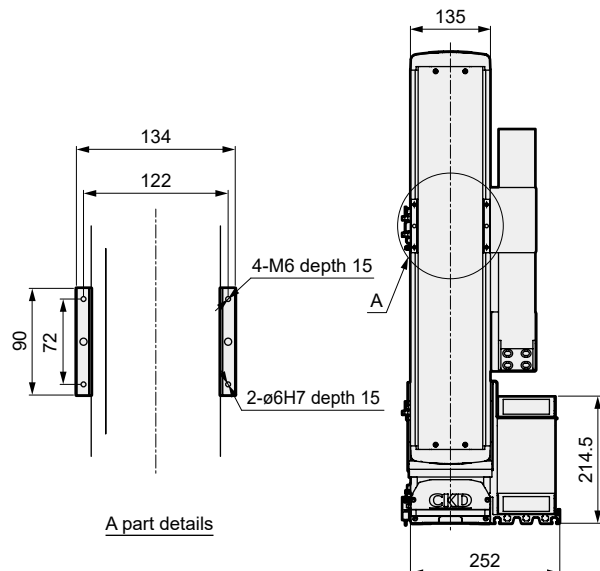
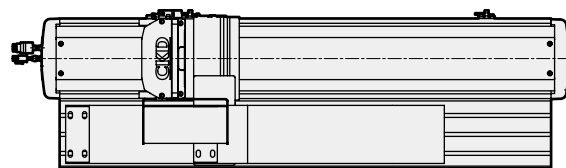
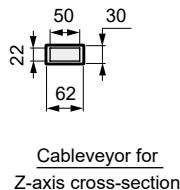
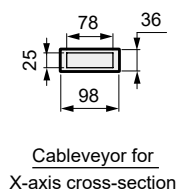
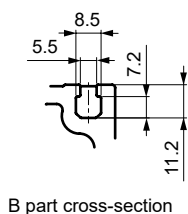
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-650P2



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Max. working speed (mm/s)	1000															900	800	700	600	500
Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550									
H	545	595	645	695	745	795	845	895	945	995	1045									
Max. working speed (mm/s)	500																			
Max. load capacity (kg)	10																			

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-14	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-13	Y				200 W	M5 4
ETS-13	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Z axes)

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 400 W
- 2-axis combination X-Z axes (P type)

RoHS

How to order

ETS - 760 P 1 - 040 030 - M B W

A Combined axes
760 ETS-17 × ETS-14

B Combination
P X-Z axes

C Combination direction
1, 2 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
125 1250 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
065 650 mm

F Brake *1
B Yes

G Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

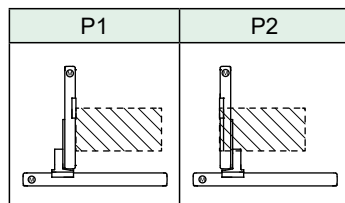
H Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	400 W	Model	400 W
ETS-760	P	1	ETS-17	B	ETS-14	B (with brake)
		2		B		B (with brake)

D E stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-760	P	ETS-17	20	100 to 1250	ETS-14	10	50 to 650

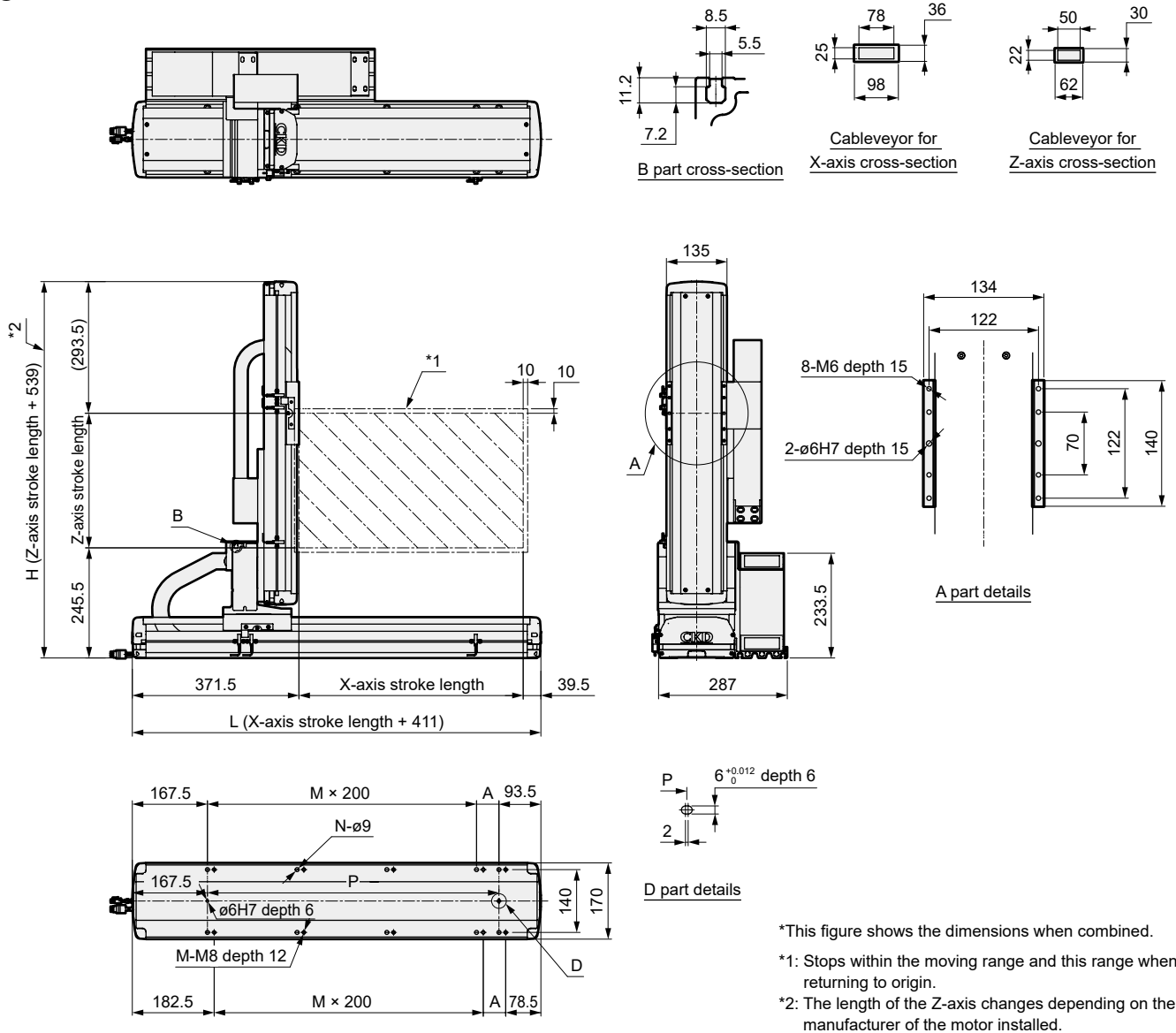
Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-760	P	1	ETS-17	L	ETS-14	L
		2		R		L

*R: Right side L: Left side

Dimensions

● ETS-760P1



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

*2: The length of the Z-axis changes depending on the manufacturer of the motor installed.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Max. working speed (mm/s)	1000																900		800		700		600	

Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650
H	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189
Max. working speed (mm/s)	500												
Max. load capacity (kg)	22												

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
	Y					M5 4
ETS-14	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

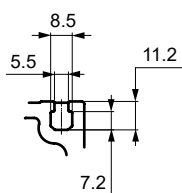
Cableveyor, axis combination bracket

Discontinued some variations

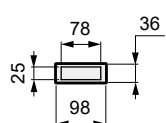
ETS Multi-Axis Series

Dimensions

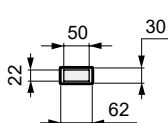
● ETS-760P2



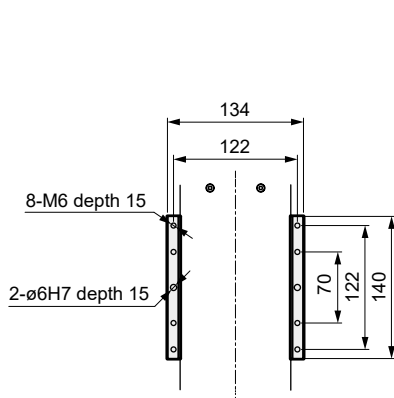
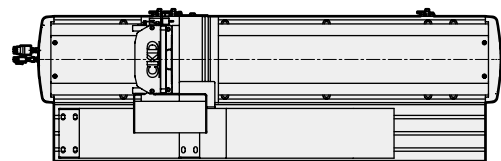
B part cross-section



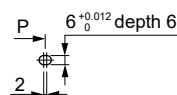
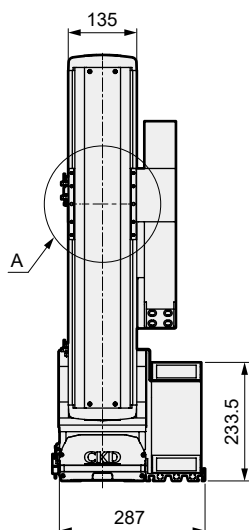
Cableveyor for
X-axis cross-section



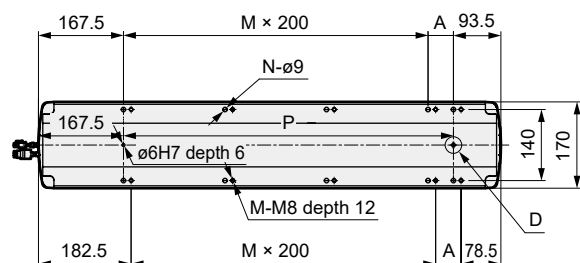
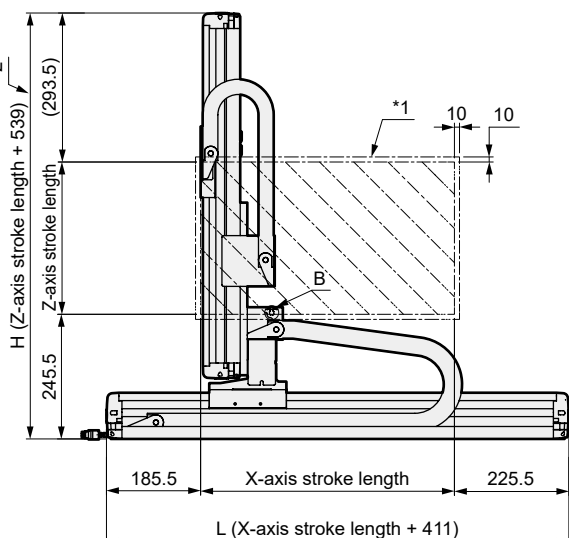
Cableveyor for
Z-axis cross-section



A part details



D part details



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

*2: The length of the Z-axis changes depending on the manufacturer of the motor installed.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Max. working speed (mm/s)	1000																900		800		700		600	
Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650											
H	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189											
Max. working speed (mm/s)	500																							
Max. load capacity (kg)	22																							

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
	Y					M5 4
ETS-14	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 750 W
- 2-axis combination X-Z axes (P type)

RoHS

How to order

ETS - 880 P 1 - 040 030 - M B W

A Combined axes
880 ETS-22 × ETS-22

B Combination
P X-Z axes

C Combination direction
1, 2 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
150 1500 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
095 950 mm

F Brake *1
B Yes

G Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

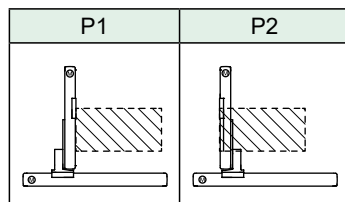
H Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



F Mounted motor specification

Manufacturer	750 W
Mitsubishi Electric Corporation	M
Delta Electronics Co., Ltd.	M
Sanyo Denki Co., Ltd.	-
YASKAWA Electric Corporation	Y
Keyence Corporation	Y
Panasonic Corporation	P
OMRON Corporation	O

*Refer to page 164 for the recommended motor model No.

C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	750 W	Model	750 W
ETS-880	P	1	ETS-22	B	ETS-22	B (with brake)
		2		B		B (with brake)

*B: Built-in mount

D E stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-880	P	ETS-22	25	100 to 1500	ETS-22	5	50 to 950

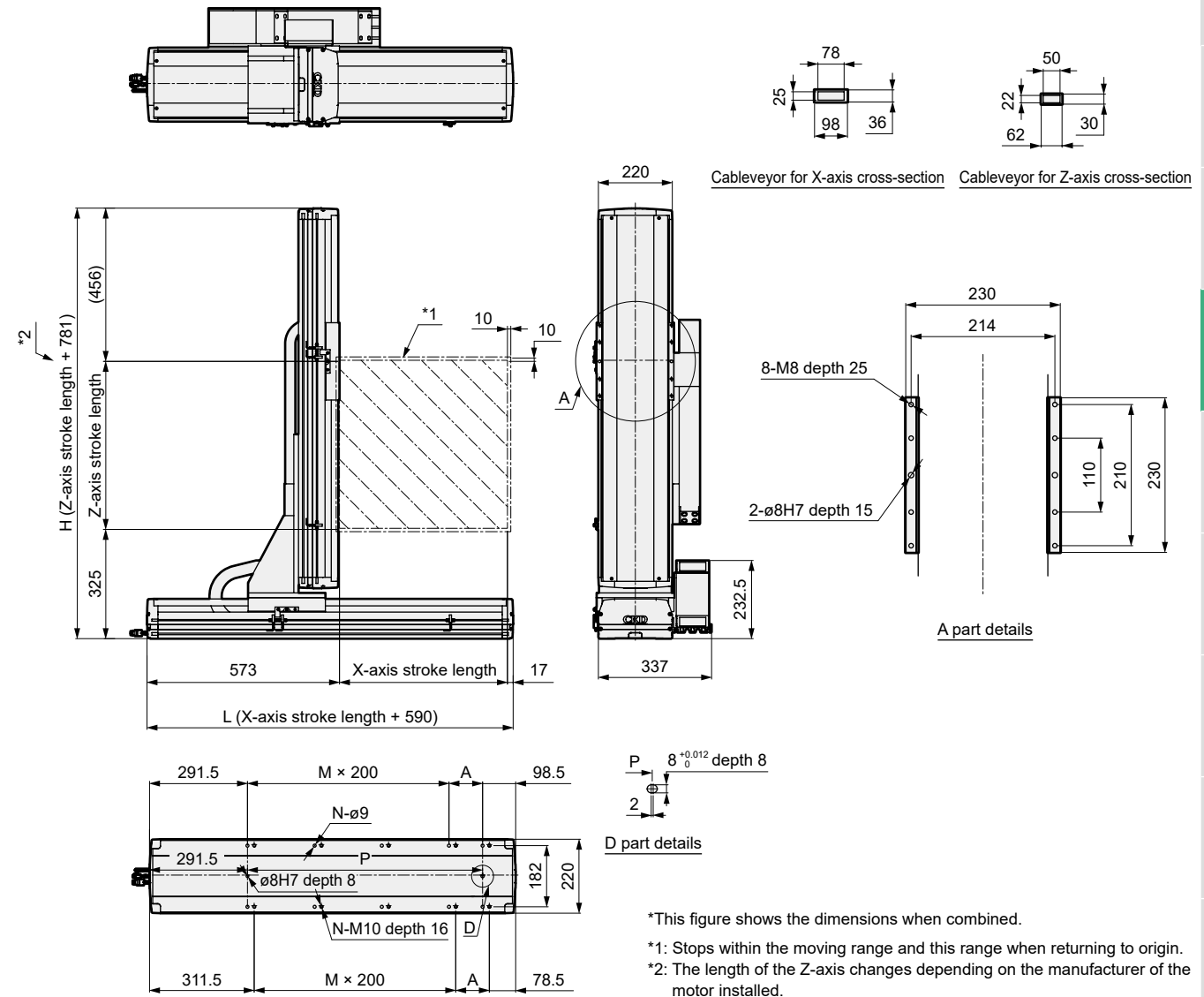
Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-880	P	1	ETS-22	L	ETS-22	L
		2		R		L

*R: Right side L: Left side

Dimensions

● ETS-880P1



X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
Max. working speed (mm/s)	1250																		1125		1000		875		750		625		500	

Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
H	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731
Max. working speed (mm/s)	250																		
Max. load capacity (kg)	35																		

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6 4
	Y					M6 4
	P					M5 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

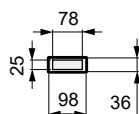
Cableveyor, axis combination bracket

Discontinued some variations

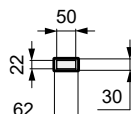
ETS Multi-Axis Series

Dimensions

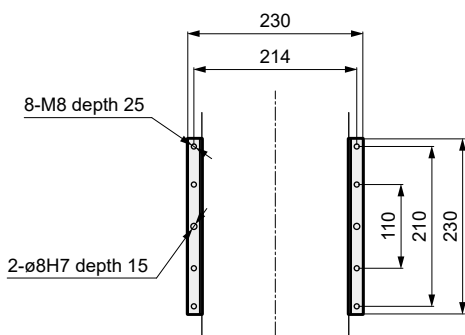
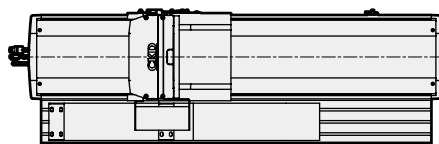
● ETS-880P2



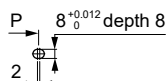
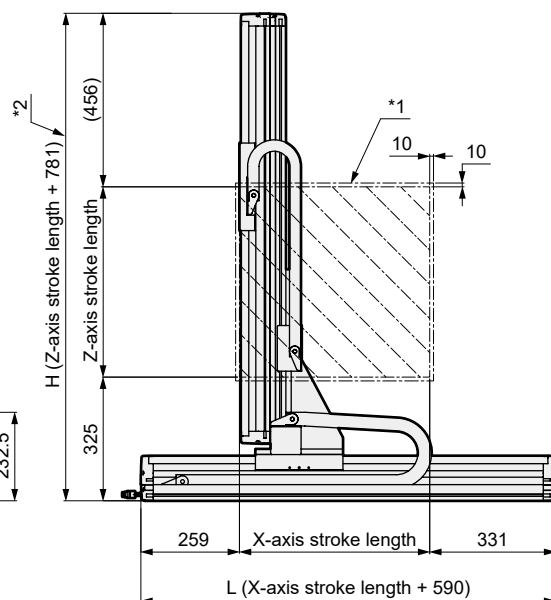
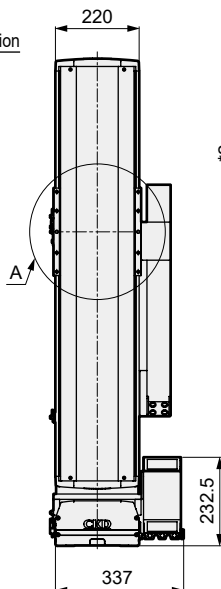
Cableveyor for X-axis cross-section



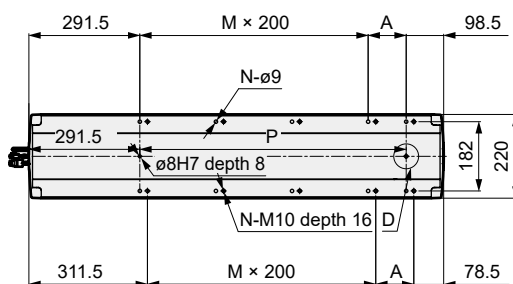
Cableveyor for Z-axis cross-section



A part details



D part details



*This figure shows the dimensions when combined.

*1: Stops within the moving range and this range when returning to origin.

*2: The length of the Z-axis changes depending on the manufacturer of the motor installed.

X-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
L	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	
P	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
Max. working speed (mm/s)	1250																		1125		1000		875		750		625		500	
Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950											
H	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731											
Max. working speed (mm/s)	250																													
Max. load capacity (kg)	35																													

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-22	M	B	Coupling	Assembled at shipment	750 W	M6 4
	Y					M6 4
	P					M5 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions (X-Z axes)

MEMO

Servo motor compatible							Stepper motor compatible				Safety precautions
EBS	EBR	ETS	ETS Multi-Axis	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS

Discontinued some variations

Electric actuator Ball screw drive Slider

ETS Multi-Axis Series

- Servo motor capacity: 400 W
- 2-axis combination Y-Z axes (F type)

RoHS

How to order

ETS - 760 F 1 - 040 030 - M B W

A Combined axes
760 ETS-17 × ETS-14

B Combination
F Y-Z axes

C Combination direction
1, 3 Confirm the table below.

D 1st axis stroke
010 100 mm to (50 mm pitch)
125 1250 mm

E 2nd axis stroke
005 50 mm to (50 mm pitch)
055 550 mm

G Brake *1
B Yes

H Origin/Limit sensor (3 pcs × 2 axes) *2
N None
W Yes

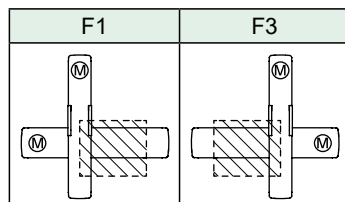
F Mounted motor specification *3
M Select the mounted motor specification from the table below.
Y
P
O

*1: The brake targets the 2nd axis.

*2: The user can adjust the sensor position. (Included at shipment)

*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

C Combination direction



C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	400 W	Model	400 W
ETS-760	F	1	ETS-17	B	ETS-14	B (with brake)
		3		B		B (with brake)

*B: Built-in mount

D E stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-760	F	ETS-17	20	100 to 1250	ETS-14	10	50 to 550

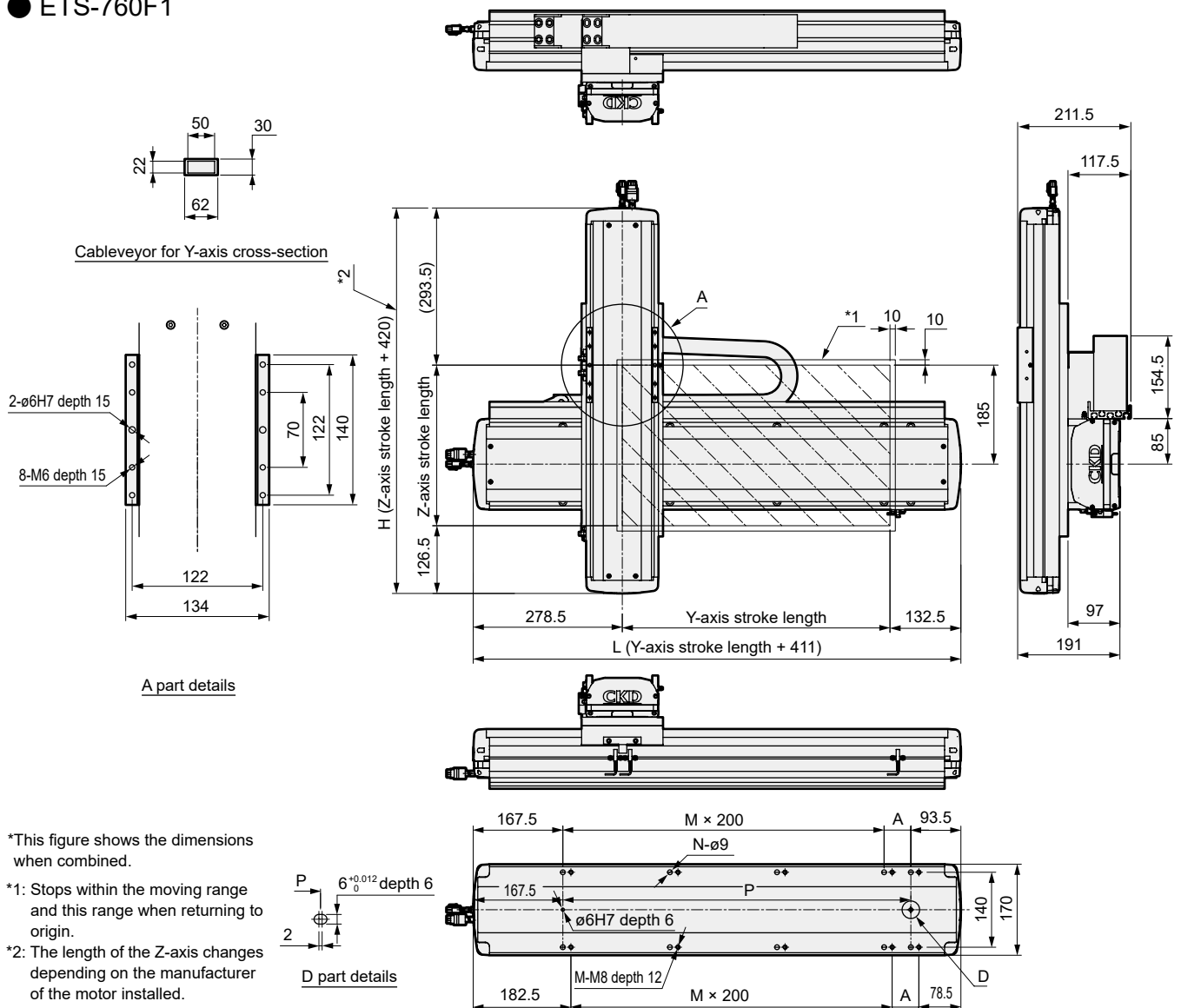
Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-760	F	1	ETS-17	R	ETS-14	R
		3		L		L

*R: Right side L: Left side

Dimensions

● ETS-760F1



Y-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Max. working speed (mm/s)	1000																900		800		700		600	

Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550
H	470	520	570	620	670	720	770	820	870	920	970
Max. working speed (mm/s)	500										
Max. load capacity (kg)	22										

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
	Y					M5 4
ETS-14	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

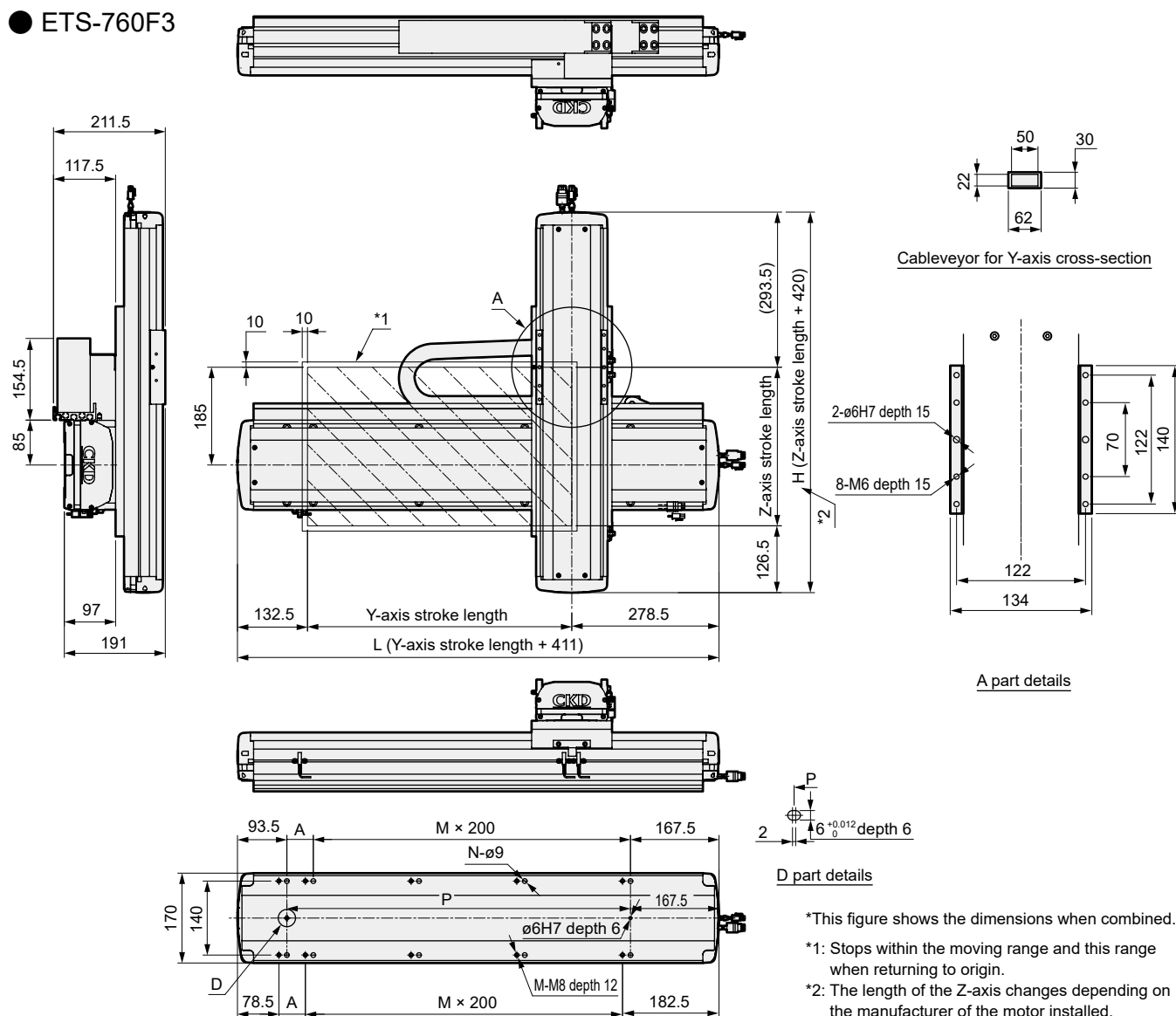
Cableveyor, axis combination bracket

Discontinued some variations

ETS Multi-Axis Series

Dimensions

● ETS-760F3



Y-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Max. working speed (mm/s)	1000																900		800		700		600	
Z-axis stroke (mm)	50	100	150	200	250	300	350	400	450	500	550													
H	470	520	570	620	670	720	770	820	870	920	970													
Max. working speed (mm/s)	500																							
Max. load capacity (kg)	22																							

List of attachments

[Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-17	M	B	Coupling	Assembled at shipment	400 W	M5 4
ETS-14	Y					M5 4
ETS-14	P					M4 4

*When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

[Origin sensor/Limit sensor]

Manufacturer	Model	Quantity
OMRON Corporation	EE-SX672	6

*Refer to page 156 for sensor specifications.

[Other attachments for axis combinations]

Cableveyor, axis combination bracket