



Electric actuator Ball screw drive Slider

# ETS Multi-Axis Series

- Servo motor capacity: 100 W/200 W/400 W
- 2-axis combination Y-Z axes (F type)



## How to order

**ETS - 530 F 1 - 040 030 - M B W**

### A Combined axes

530	ETS-13 × ETS-10
640	ETS-14 × ETS-12
760	ETS-17 × ETS-14

### B Combination

P Y-Z axes

### C Combination direction

1 / 3 Confirm the table below.

### D 1st axis stroke

010	100 mm to 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	

## F Mounted motor specification

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

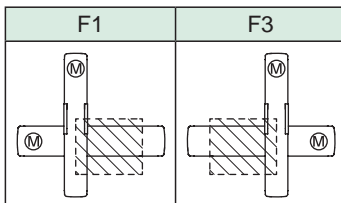
\*1: The brake targets the 2nd axis.

\*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".

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

## C Combination direction



Axis combination specifications

**C** Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity							
			1st axis				2nd axis *1			
			Model	100 W	200 W	400 W	Model	100 W	200 W	400 W
ETS-530	F	1.3	ETS-13	-	B	-	ETS-10	B (with brake)	-	-
ETS-640	F	1.3	ETS-14	-	B	-	ETS-12	-	E (with brake)	-
ETS-760	F	1.3	ETS-17	-	-	B	ETS-14	-	-	B (with brake)

\*E: Straight mount B: Built-in mount  
\*Contact CKD when using an OMRON motor.

**DE** stroke length

Combined axes	Combination	1st axis			2nd axis		
		Model	Screw lead (mm)	Stroke (mm)	Model	Screw lead (mm)	Stroke (mm)
ETS-530	F	ETS-13	20	100 to 1050	ETS-10	10	50 to 350
ETS-640		ETS-14	20	100 to 1050	ETS-12	10	50 to 350
ETS-760		ETS-17	25	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-530	F	1	ETS-13	R	ETS-10	R
		3		L		L
ETS-640	F	1	ETS-14	R	ETS-12	R
		3		L		L
ETS-760	F	1	ETS-17	R	ETS-14	R
		3		L		L



Electric actuator Ball screw drive Slider

# ETS Multi-Axis Series

- Servo motor capacity: 200 W/100 W
- 2-axis combination Y-Z axes (F type)



## How to order

**ETS - 530 F 1 - 040 030 - M B W**

**A Combined axes**

530	ETS-13 × ETS-10
-----	-----------------

**B Combination**

F	Y-Z axes
---	----------

**C Combination direction**

1, 3	Confirm the table below.
------	--------------------------

**D 1st axis stroke**

010	100 mm to to (50 mm pitch)
105	1050 mm

**E 2nd axis stroke**

005	50 mm to to (50 mm pitch)
035	350 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)

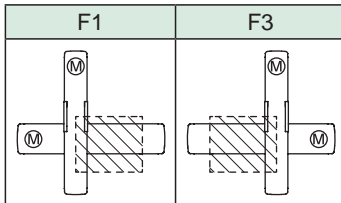
\*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

## F Mounted motor specification

Manufacturer	100 W	200 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



## C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	200 W	Model	100 W
ETS-530	F	1	ETS-13	B	ETS-10	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-530	F	ETS-13	20	100 to 1050	ETS-10	10	50 to 350

## Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-530	F	1	ETS-13	R	ETS-10	R
		3		L		L

\*R: Right side L: Left side

Servo motor compatible

ETV

ECV

EKS

EBS

Stepper motor compatible

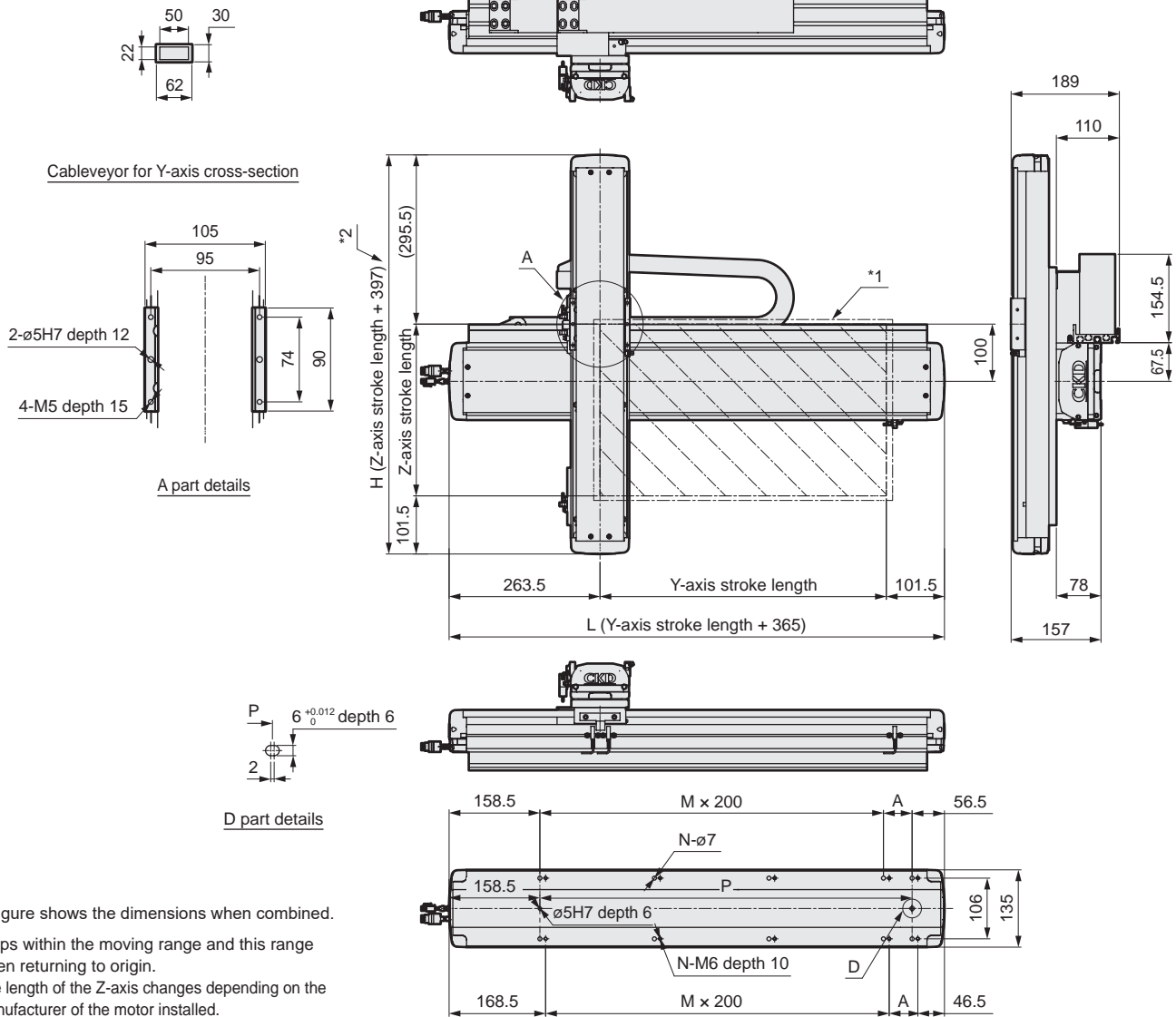
ECS

# ETS Multi-Axis Series

## Dimensions (Y-Z axes)

### Dimensions

#### ● ETS-530F1



\*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.

Y-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	
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

Z-axis stroke (mm)	50	100	150	200	250	300	350
H	447	497	547	597	647	697	747
Max. working speed (mm/s)	500						
Max. load capacity (kg)	8						

### List of attachments

#### [Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-13	M	B	Coupling	Assembled at shipment	200 W	M5/M4 4/2
	Y					M5/M5 4/2
ETS-10	P				100 W	M4/M3 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

EBS

EBR

ETS

ETS Multi-Axis

ECS

ETV

ECV

EKS

EBS

EBR

ETS

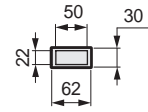
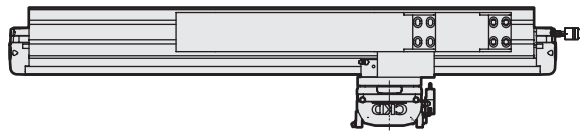
ECS

Safety precautions

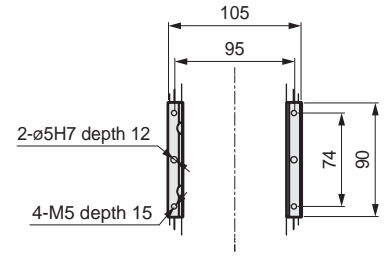
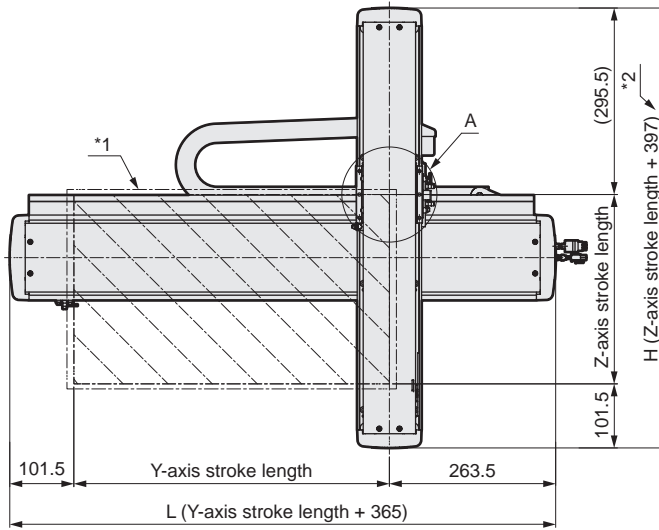
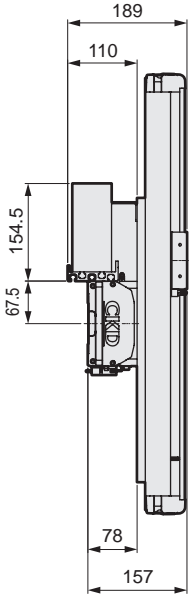
# ETS Multi-Axis Series

## Dimensions

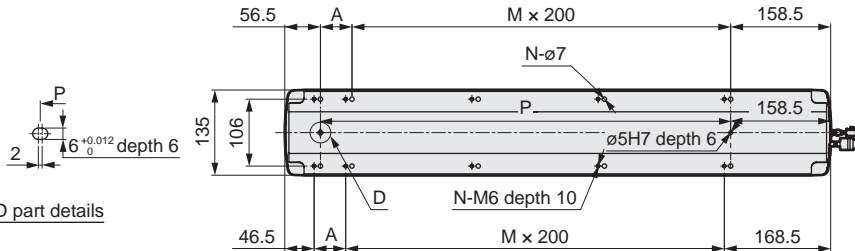
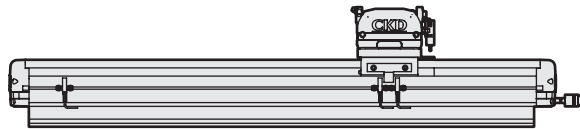
### ● ETS-530F3



Cableveyor for Y-axis cross-section



A 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.

Y-axis stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	
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
Z-axis stroke (mm)	50	100	150	200	250	300	350														
H	447	497	547	597	647	697	747														
Max. working speed (mm/s)	500																				
Max. load capacity (kg)	8																				

## List of attachments

### [Motor mounting parts]

Model No.	Mounted motor specifications	Motor mounting direction	Mounting parts	Shipment method	Motor capacity	Motor mounting bolt
ETS-13	M	B	Coupling	Assembled at shipment	200 W	M5/M4 4/2
	Y					M5/M5 4/2
ETS-10	P					M4/M3 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 (Y-Z axes)

MEMO

EBS	EBR	ETS	<b>ETS Multi-Axis</b>	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS
Servo motor compatible								Stepper motor compatible			

Safety precautions



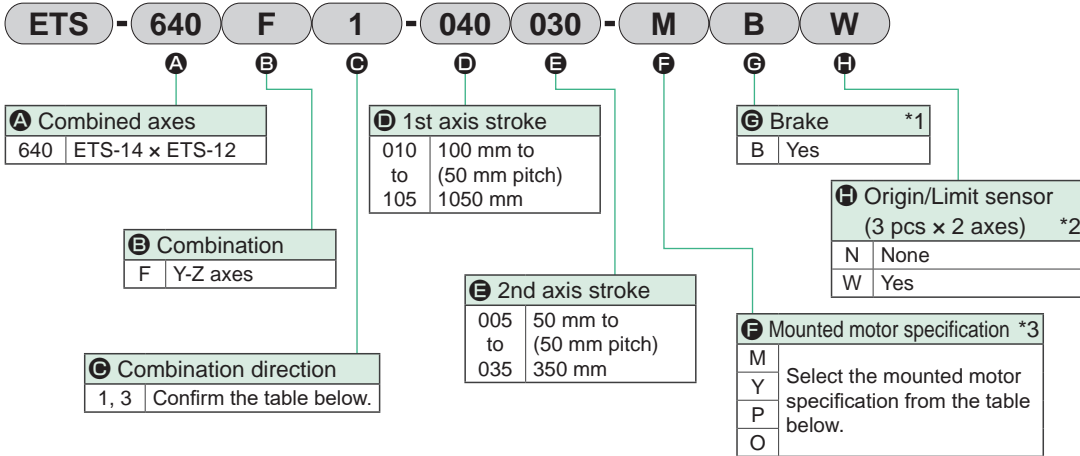
Electric actuator Ball screw drive Slider

# ETS Multi-Axis Series

- Servo motor capacity: 200 W
- 2-axis combination Y-Z axes (F type)



## How to order



\*1: The brake targets the 2nd axis.

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

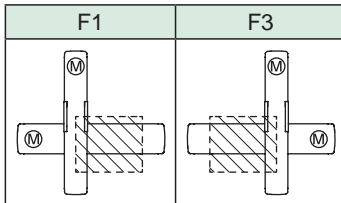
\*3: When "O" is selected for Mounted motor specification, the motor specification code for the 1st and 2nd axes is "M" or "P".

## F Mounted motor specification

Manufacturer	200 W
Mitsubishi Electric Corporation	M
Delta Electronics Co., Ltd.	M
Sanyo Denki Co., Ltd.	M
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



## C Combination direction and motor mounting direction

Combined axes	Combination	Combination direction	Motor mounting direction and motor capacity			
			1st axis		2nd axis	
			Model	200 W	Model	200 W
ETS-640	F	1	ETS-14	B	ETS-12	E (with brake)
		3		B		E (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-640	F	ETS-14	20	100 to 1050	ETS-12	10	50 to 350

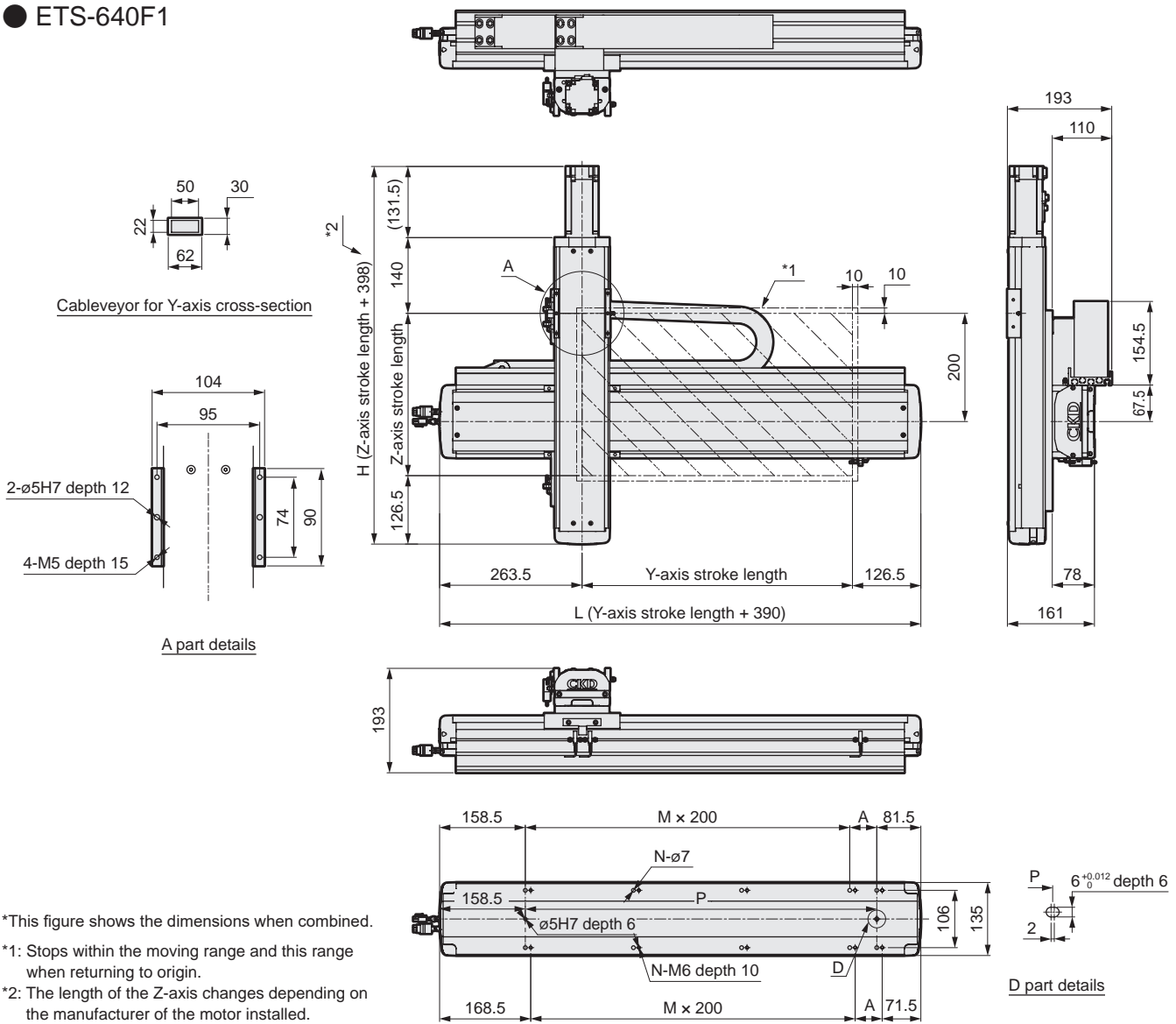
## Grease nipple

Combined axes	Combination	Combination direction	1st axis		2nd axis	
			Model	Grease nipple position	Model	Grease nipple position
ETS-640	F	1	ETS-14	R	ETS-12	R
		3		L		L

\*R: Right side L: Left side

## Dimensions

### ● ETS-640F1



\*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.

Y-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

Z-axis stroke (mm)	50	100	150	200	250	300	350
H	448	498	548	598	648	698	748
Max. working speed (mm/s)	500						
Max. load capacity (kg)	15						

## 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	200 W	M5 4
	Y					M5 4
ETS-12	P	E				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.

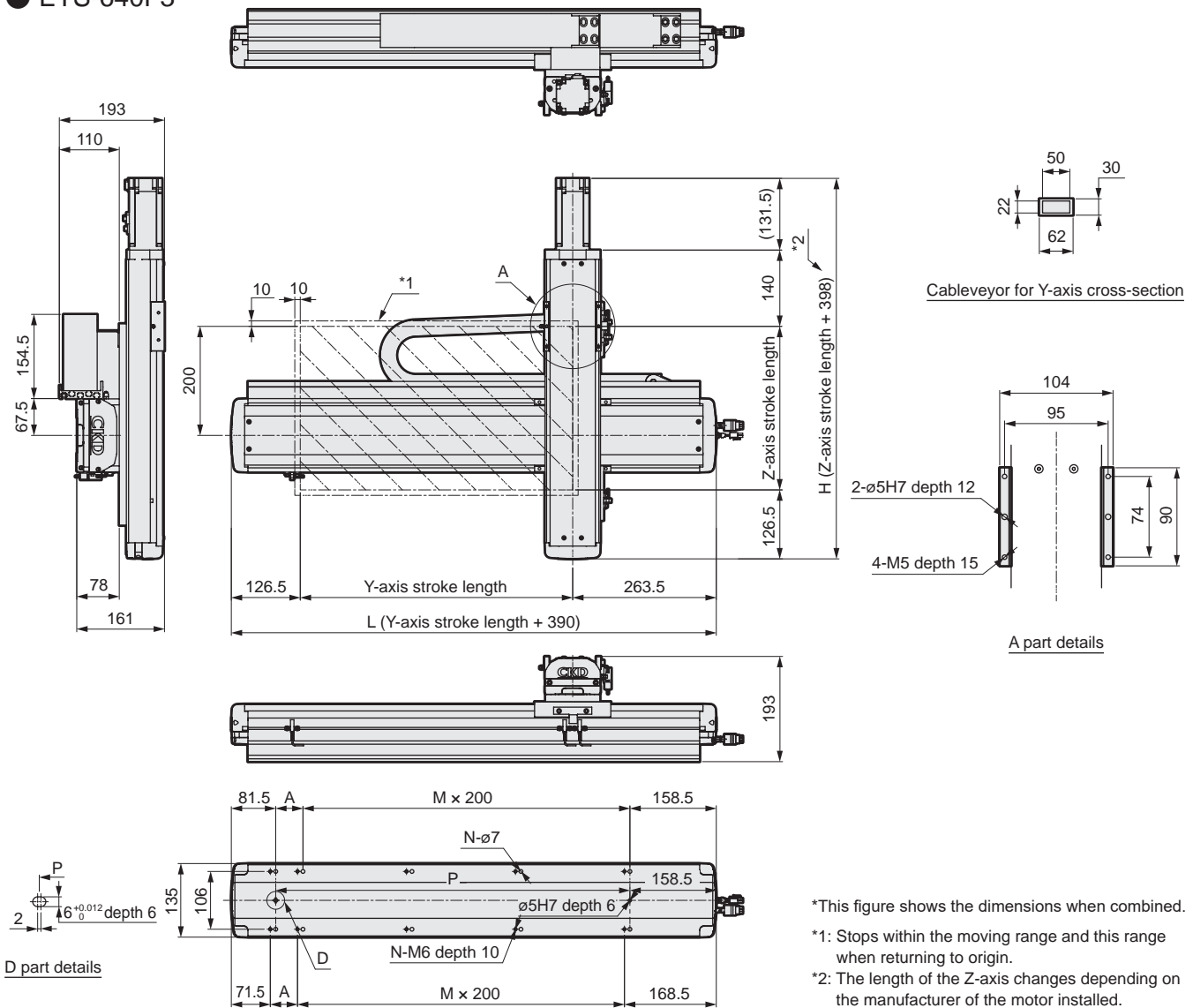
[Other attachments for axis combinations]  
 Cableveyor, axis combination bracket



# ETS Multi-Axis Series

## Dimensions

### ● ETS-640F3



Y-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
Z-axis stroke (mm)	50	100	150	200	250	300	350														
H	448	498	548	598	648	698	748														
Max. working speed (mm/s)	500																				
Max. load capacity (kg)	15																				

## 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	200 W	M5 4
	Y					M5 4
ETS-12	P	E				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

Servo motor compatible

Stepper motor compatible

EBS

EBR

ETS

ETSMulti-Axis

ECS

ETV

ECV

EKS

EBS

EBR

ETS

ECS

Safety precautions

# ETS Multi-Axis Series

Dimensions (Y-Z axes)

MEMO

EBS	EBR	ETS	<b>ETS Multi-Axis</b>	ECS	ETV	ECV	EKS	EBS	EBR	ETS	ECS
Servo motor compatible								Stepper motor compatible			

Safety precautions