

HIGH PERFORMANCE ROBO CYLINDER

POWER CYLINDER

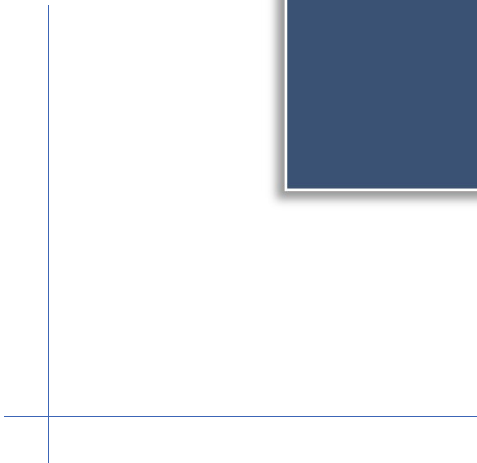
APS series



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TMS

BALL SCREW APPLIED



POWER CYLINDER **APS 108**



www.tms-korea.co.kr



ORDER CODE

APS 108

APS 108 - P 100 - W 010 G 10 - S3 - M - FM
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

1. Series

APS TMS Power Cylinder Series

2. Frame (Body Frame Size)

APS 108 108mm X 108mm
APS 127 127mm X 127mm
APS 147 147mm X 147mm
APS 176 176mm X 176mm

3. Mounting Type

NONE without Type
S Servo Motor Straigh Type
P Servo Motor Parallel Type

4. Stroke

100 The standard stroke is in units of 100 mm.
000 Customized specifications are available.

5. Color

W Body Color - White Anodyzing
B Body Color - Black Anodyzing

6. Motor

NONE without Servo Motor
008 Servo Motor 750W
010 Servo Motor 1.0kW
035 Servo Motor 3.5kW
070 Servo Motor 7.0kW
110 Servo Motor 11.0kW

7. Reducer

NONE Without Gear
G With Gear

8. Ratio

NONE without Ratio
03 ~ 10 Gear Ratio

9. Sensor (magnetic, NPN, 3wire)

NONE Without Sensor
S3 (P) Standard Spec. NO(Origin-1) + NC(Limit-2)
A3 (P) NO(Normal Open), 3EA
B3 (P) NC(Normal Close), 3EA

※ () is the PNP order specification.

10. ROD Shape

M Male Thread
F Female Thread
RB Rod End Bearing
RC Rod Clevis

11. Options (Mount Bracket)

NONE without Options
FM Flange Mount
FF Flange Foot Mount
PC Pulley Cover Clevis Mount
TRN Trunnion Mount

Mounting Types and Options: Reference Views

S type



Straight-mounted servo motors

P type



Parallel-mounted servo motors

OPTIONS

S type (Straight-mounted servo motors)

FM



Flange Mount type

FFB



Flange Foot Mount B type

OPTIONS

P type (Parallel-mounted servo motors)

FMA



Flange Mount A type

FMB



Flange Mount B type

FFB



Flange Foot Mount B type

FORCE TABLE

APS108

Servo Motor (kW)	Gear	Ratio	Speed ¹ (mm/sec)	Force (kN)					
				50%	60%	70%	80%	90%	100%
1.0	□ 90	3	111	4.0	4.9	5.8	6.7	7.5	8.4
		4	83	5.5	6.6	7.8	9.0	10.2	11.3
		5	66	6.9	8.4	9.9	11.3	12.8	14.2
		6	55	8.4	10.1	11.9	13.6	15.4	17.2
		7	47	9.8	11.9	13.9	16.0	18.0	20.1
		8	41	11.3	13.6	16.0	18.3	20.6	
		9	37	12.7	15.4	18.0	20.6		
		10	33	14.2	17.1	20.0			

Note 1. The speeds indicated above are based on the servo motor's rated speed of 2,000 RPM
The settings in the table above are based on a 500mm stroke.

APS 108 - S 200 - W 010 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 108
FRAME SIZE	□ 108
ROD DIAMETER	Ø 45
BALL SCREW LEAD	10
APPLIED CAPACITY	1.0kW
RATED RPM	2000
NORMAL PAYLOAD	500kgf
MAX. PAYLOAD	1000kgf
REPEATABILITY	C7 (0.02mm)



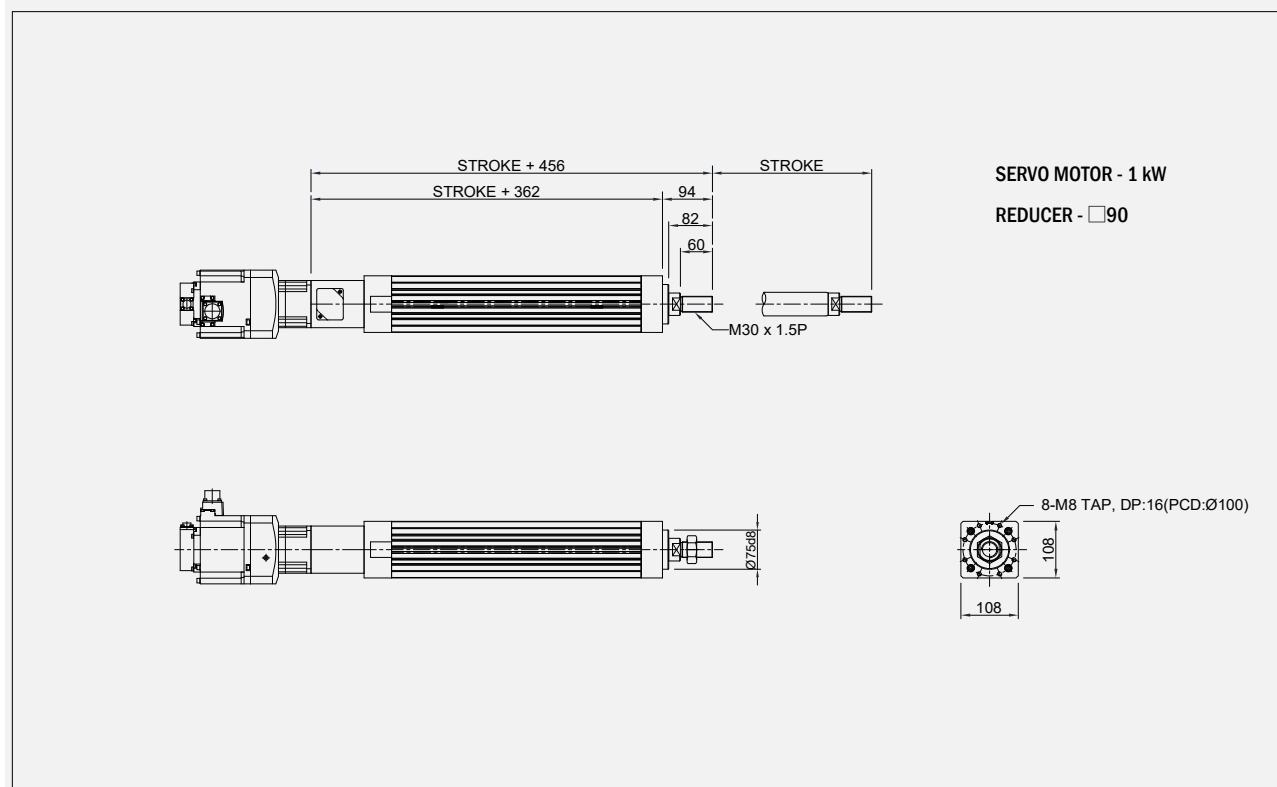
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	15.49	17.63	19.77	21.91	24.05	26.19	28.33	30.47
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	25.38	27.52	29.66	31.80	33.94	36.08	38.22	40.36

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 108

OPTIONS

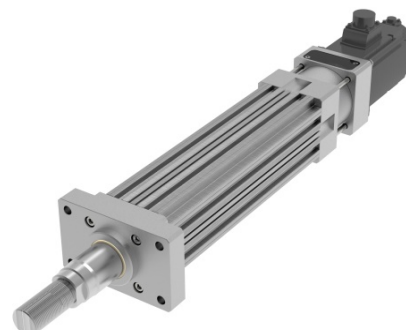
FM

FLANGE MOUNT

APS 108 - S 200 - W 010 G10 - S3 - M - FM

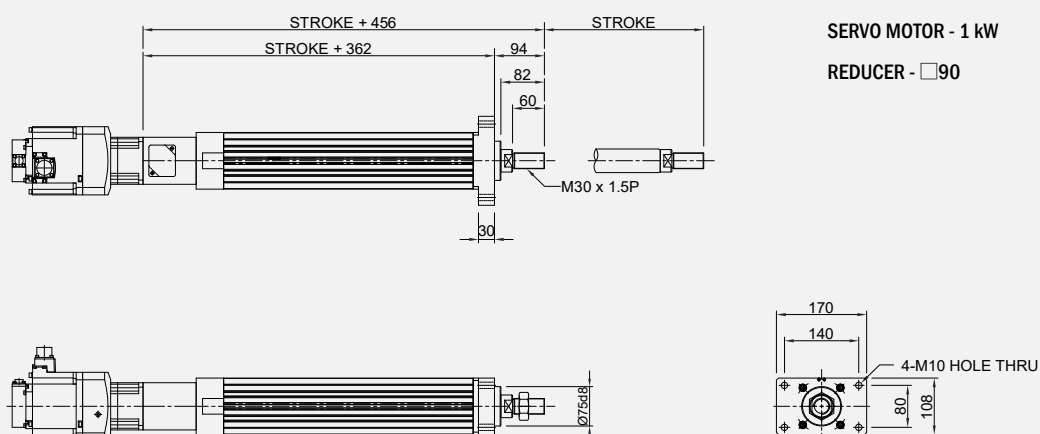
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	15.98	18.12	20.26	22.40	24.54	26.68	28.82	30.96
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	25.87	28.01	30.15	32.29	34.43	36.57	38.71	40.85

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 108

OPTIONS

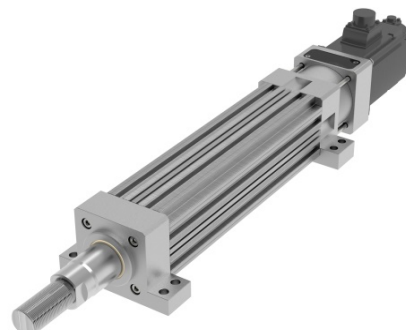
FFB

FLANGE FOOT MOUNT B TYPE

APS 108 - S 200 - W 010 G10 - S3 - M - FFB

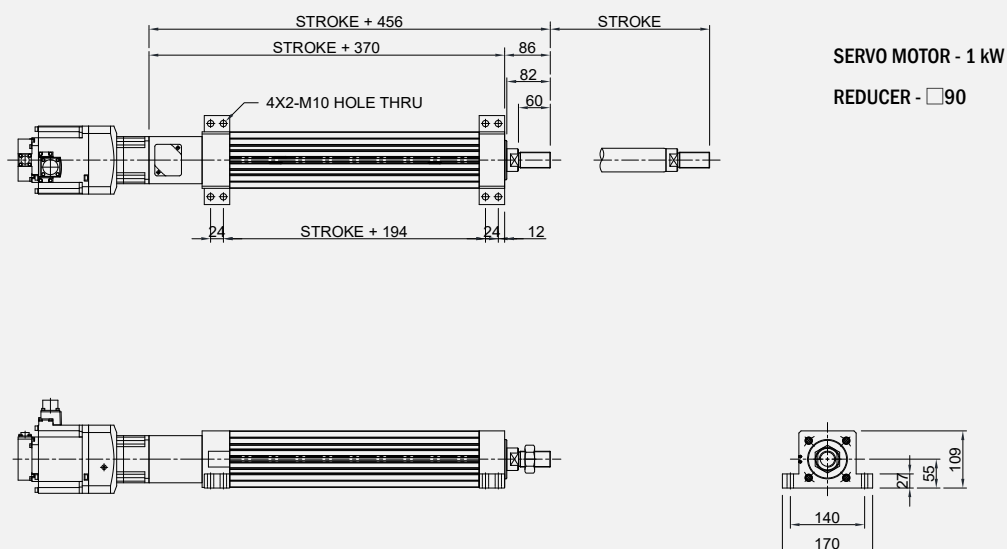
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

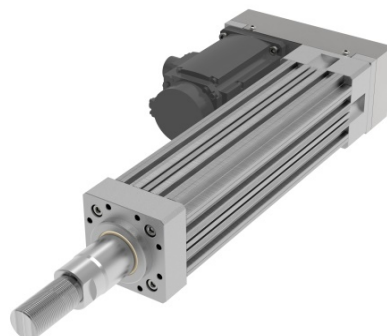
STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	15.93	18.07	20.21	22.35	24.49	26.63	28.77	30.91
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	25.82	27.96	30.10	32.24	34.38	36.52	38.66	40.80

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 108 - P 200 - W 010 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 108
FRAME SIZE	□ 108
ROD DIAMETER	Ø 45
BALL SCREW LEAD	10
APPLIED CAPACITY	1.0kW
RATED RPM	2000
NORMAL PAYLOAD	500kgf
MAX. PAYLOAD	1000kgf
REPEATABILITY	C7 (0.02mm)



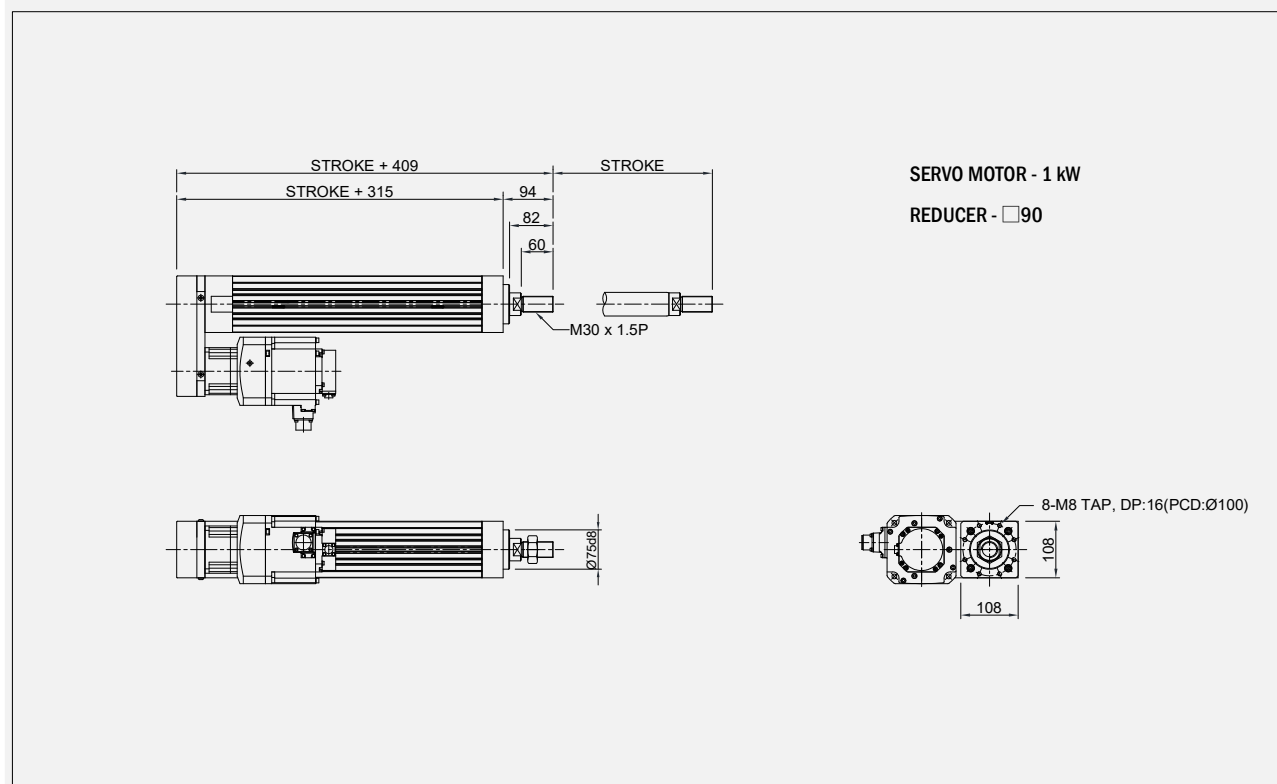
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	16.52	18.65	20.79	22.93	25.07	27.21	29.35	31.49
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	26.41	28.54	30.68	32.82	34.96	37.10	39.24	41.38

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 108

OPTIONS

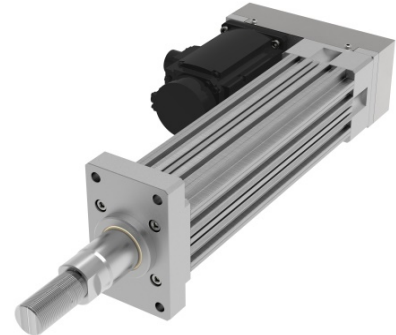
FMA

FLANGE MOUNT A TYPE

APS 108 - P 200 - W 010 G10 - S3 - M - FMA

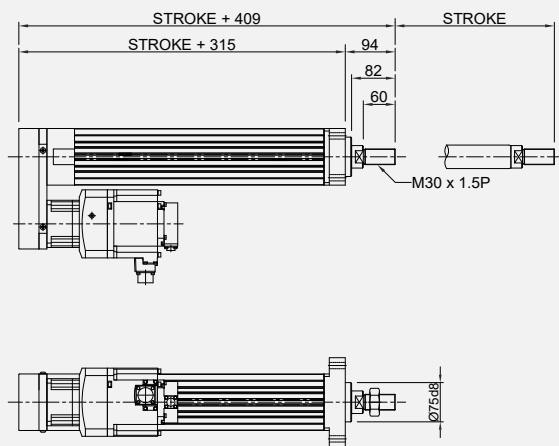
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



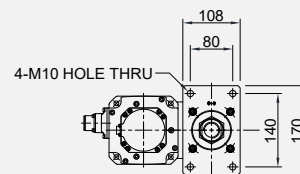
DIMENSIONS

unit : mm



SERVO MOTOR - 1 kW

REDUCER - □90



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	17.01	19.15	21.29	23.43	25.57	27.71	29.85	31.99
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	26.90	29.04	31.18	33.32	35.46	37.60	39.74	41.88

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 108

OPTIONS

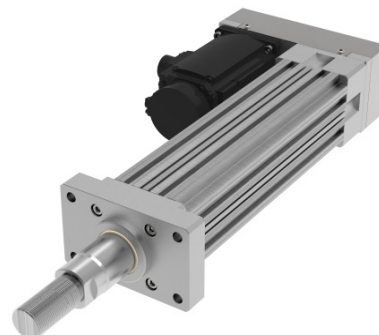
FMB

FLANGE MOUNT B TYPE

APS 108 - P 200 - W 010 G10 - S3 - M - FMB

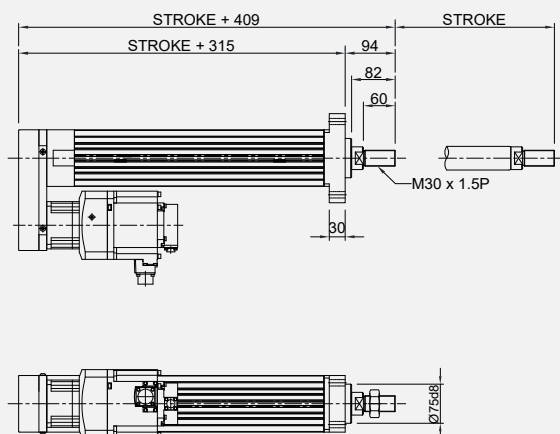
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



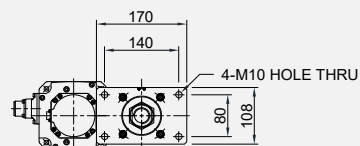
DIMENSIONS

unit : mm



SERVO MOTOR - 1 kW

REDUCER - □90



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	17.01	19.15	21.29	23.43	25.57	27.71	29.85	31.99
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	26.90	29.04	31.18	33.32	35.46	37.60	39.74	41.88

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 108

OPTIONS

FFB

FLANGE FOOT MOUNT B TYPE

APS 108 - P 200 - W 010 G10 - S3 - M - FFB

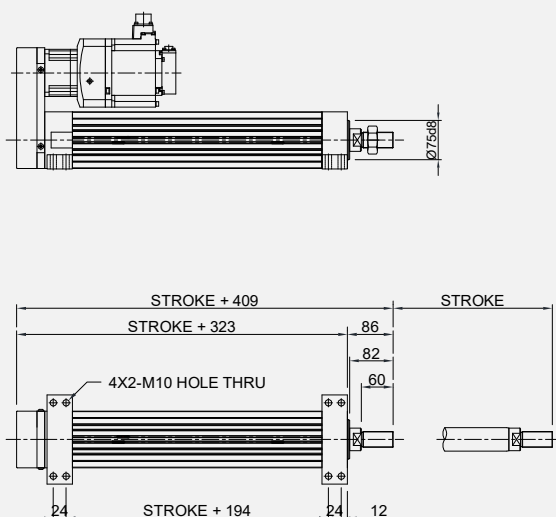
UP TO **22 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



SERVO MOTOR - 1 kW

REDUCER - □90

STROKE WEIGHT

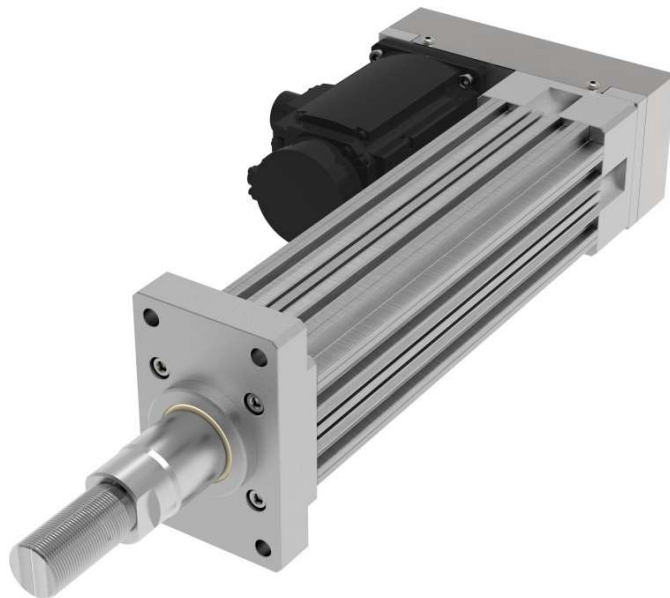
unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	16.96	19.10	21.24	23.38	25.52	27.66	29.80	31.93
SERVO MOTOR / GEAR	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89
TOTAL WEIGHT	26.85	28.99	31.13	33.27	35.41	37.55	39.69	41.82

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.



POWER CYLINDER **APS 127**



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ORDER CODE

APS 127

APS **127** - **P** **800** - **W** **015** **G** **10** - **S3** - **M** - **FM**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

1. Series

APS TMS Power Cylinder Series

2. Frame (Body Frame Size)

APS 108 108mm X 108mm
APS 127 127mm X 127mm
APS 147 147mm X 147mm
APS 176 176mm X 176mm

3. Mounting Type

NONE without Type
S Servo Motor Straigh Type
P Servo Motor Parallel Type

4. Stroke

100 The standard stroke is in units of 100 mm.
000 Customized specifications are available.

5. Color

W Body Color - White Anodyzing
B Body Color - Black Anodyzing

6. Motor

NONE without Servo Motor
008 Servo Motor 750W
010 Servo Motor 1.0kW
035 Servo Motor 3.5kW
070 Servo Motor 7.0kW
110 Servo Motor 11.0kW

7. Reducer

NONE Without Gear
G With Gear

8. Ratio

NONE without Ratio
03 ~ 10 Gear Ratio

9. Sensor (magnetic, NPN, 3wire)

NONE Without Sensor
S3 (P) Standard Spec. NO(Origin-1) + NC(Limit-2)
A3 (P) NO(Normal Open), 3EA
B3 (P) NC(Normal Close), 3EA

※ () is the PNP order specification.

10. ROD Shape

M Male Thread
F Female Thread
RB Rod End Bearing
RC Rod Clevis

11. Options (Mount Bracket)

NONE without Options
FM Flange Mount
FF Flange Foot Mount
PC Pulley Cover Clevis Mount
TRN Trunnion Mount

Mounting Types and Options: Reference Views

S type



Straight-mounted servo motors

P type



Parallel-mounted servo motors

OPTIONS

S type (Straight-mounted servo motors)

FM



Flange Mount type

FFB



Flange Foot Mount B type

OPTIONS

P type (Parallel-mounted servo motors)

FMA



Flange Mount A type

FMB



Flange Mount B type

FFB



Flange Foot Mount B type

FORCE TABLE

APS 127

Servo Motor (kW)	Gear	Ratio	Speed ¹ (mm/sec)	Force (kN)					
				50%	60%	70%	80%	90%	100%
1.5	□ 120	3	111	6.0	7.4	8.7	10.0	11.3	12.6
		4	83	8.2	10.0	11.8	13.5	15.3	17.0
		5	66	10.4	12.6	14.8	17.0	19.2	21.4
		6	55	12.6	15.2	17.9	20.5	23.1	25.8
		7	47	14.8	17.9	20.9	24.0	27.1	30.1
		8	41	17.0	20.5	24.0	27.5	31.0	34.5
		9	37	19.1	23.1	27.0	31.0	34.9	
		10	33	21.3	25.7	30.1	34.5		
2.0	□ 142	3	111	7.0	9.0	10.8	12.7	14.5	16.3
		4	83	9.9	12.5	14.9	17.3	19.7	22.1
		5	66	12.9	15.9	19.0	21.9	24.9	27.8
		6	55	15.8	19.4	23.0	26.6	30.1	33.6
		7	47	18.7	22.9	27.0	31.2	35.3	
		8	41	21.5	26.3	31.1	35.8		
		9	37	24.8	29.8	35.1			
		10	33	27.3	33.3				

Note 1. The speeds indicated above are based on the servo motor's rated speed of 2,000 RPM

The settings in the table above are based on a 500mm stroke.

APS 127 - S 200 - W 015 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 127	
FRAME SIZE	□ 127	
ROD DIAMETER	Ø 60	
BALL SCREW LEAD	10	
APPLIED CAPACITY	1.5kW	2kW
RATED RPM	2000	2000
NORMAL PAYLOAD	750kgf	1000kgf
MAX. PAYLOAD	1500kgf	2000kgf
REPEATABILITY	C7 (0.02mm)	



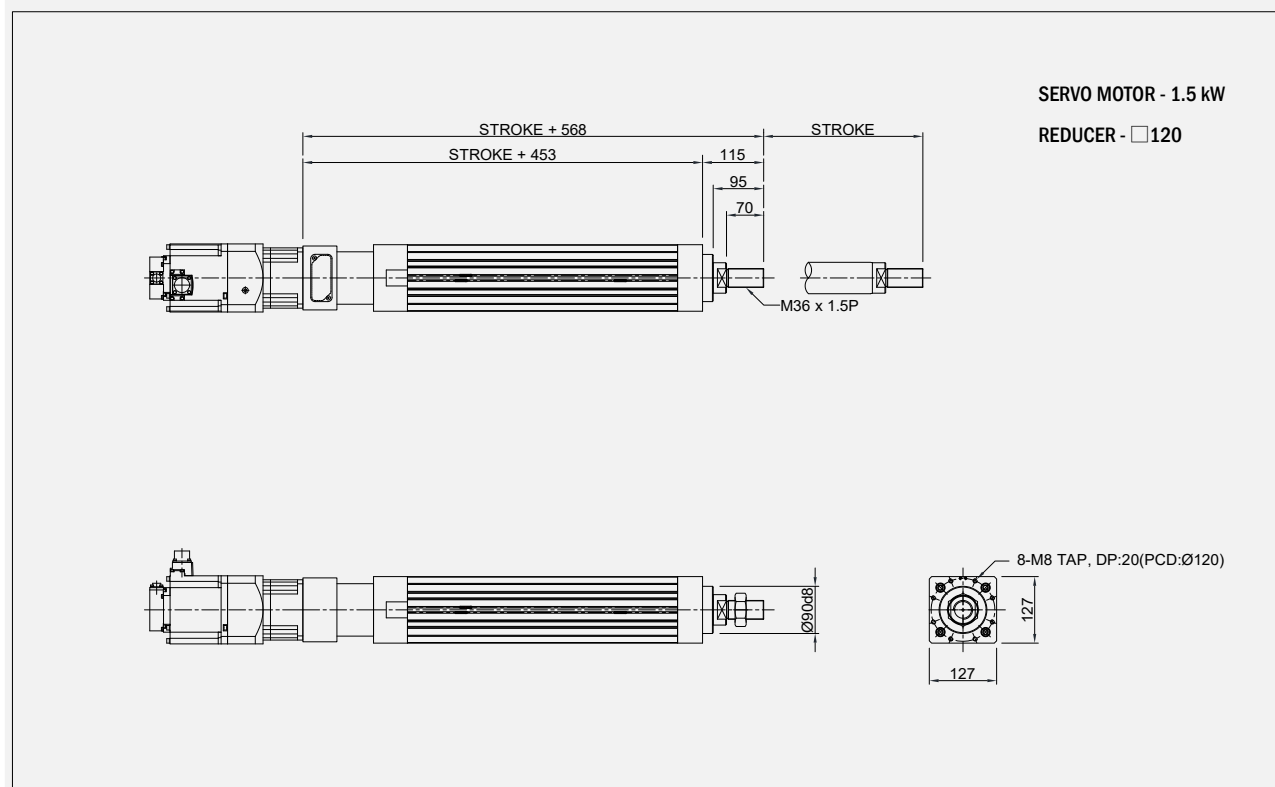
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	27.00	30.33	33.66	36.99	40.32	43.65	46.98	50.31
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	42.93	46.26	49.59	52.92	56.25	59.58	62.91	66.24

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

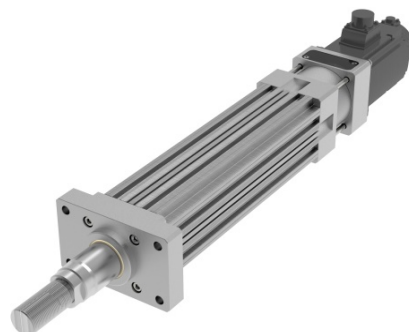
FM

FLANGE MOUNT

APS 127 - S 200 - W 015 G10 - S3 - M - FM

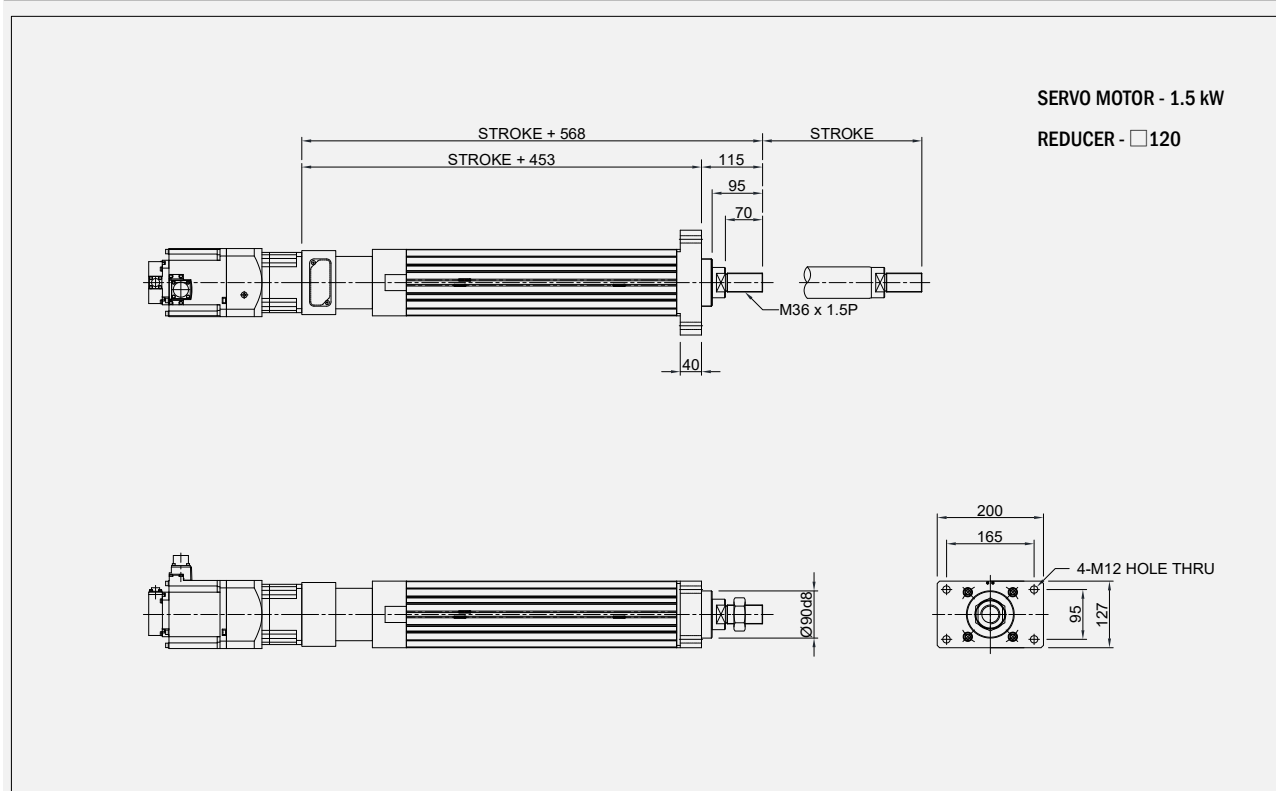
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	27.90	31.23	34.56	37.89	41.22	44.55	47.88	51.21
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	43.83	47.16	50.49	53.82	57.15	60.48	63.81	67.14

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

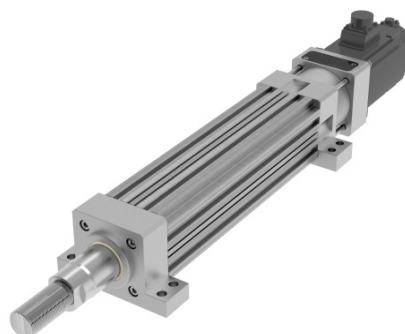
FFB

FLANGE FOOT MOUNT B TYPE

APS 127 - S 200 - W 015 G10 - S3 - M - FFB

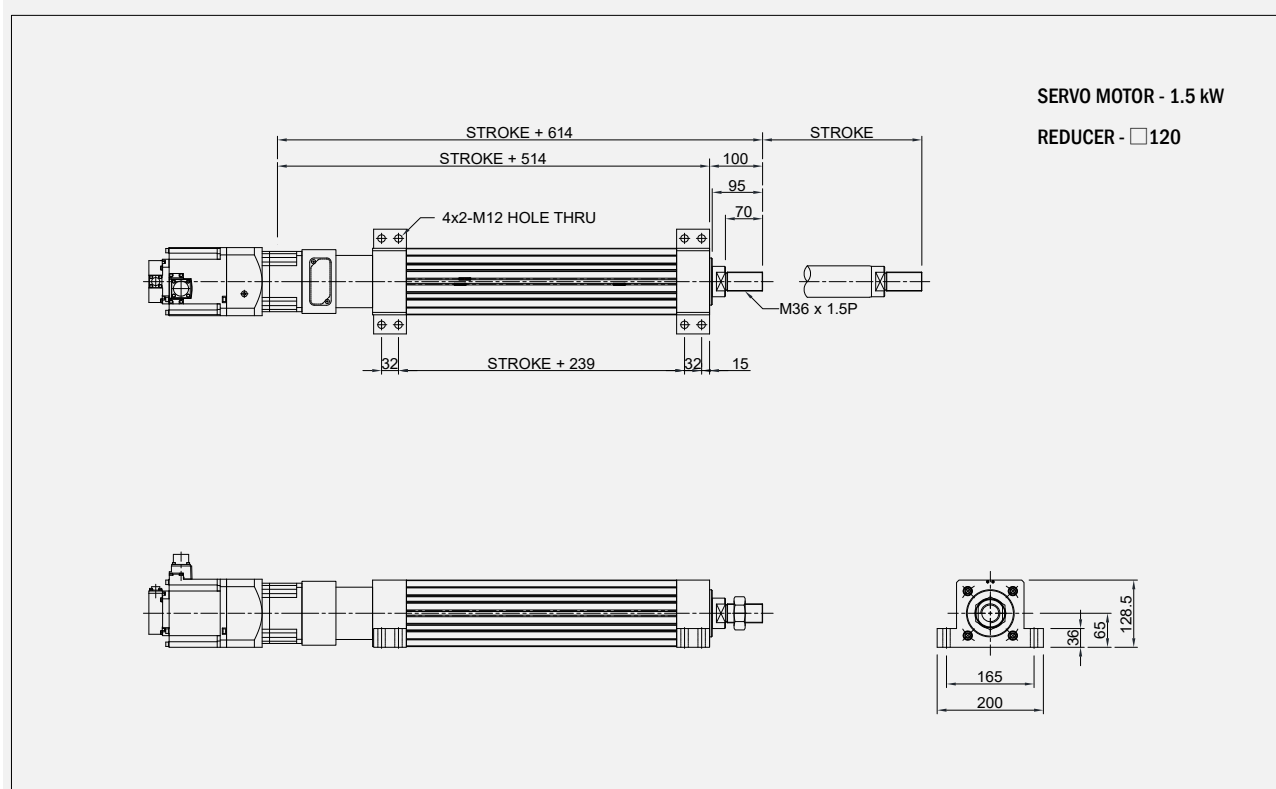
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	28.04	37.37	34.70	38.03	41.36	44.69	48.02	51.36
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	43.97	53.30	50.63	53.96	57.29	60.62	63.95	67.29

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 127 - S 200 - W 020 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 127	
FRAME SIZE	□ 127	
ROD DIAMETER	Ø 60	
BALL SCREW LEAD	10	
APPLIED CAPACITY	1.5kW	2kW
RATED RPM	2000	2000
NORMAL PAYLOAD	750kgf	1000kgf
MAX. PAYLOAD	1500kgf	2000kgf
REPEATABILITY	C7 (0.02mm)	



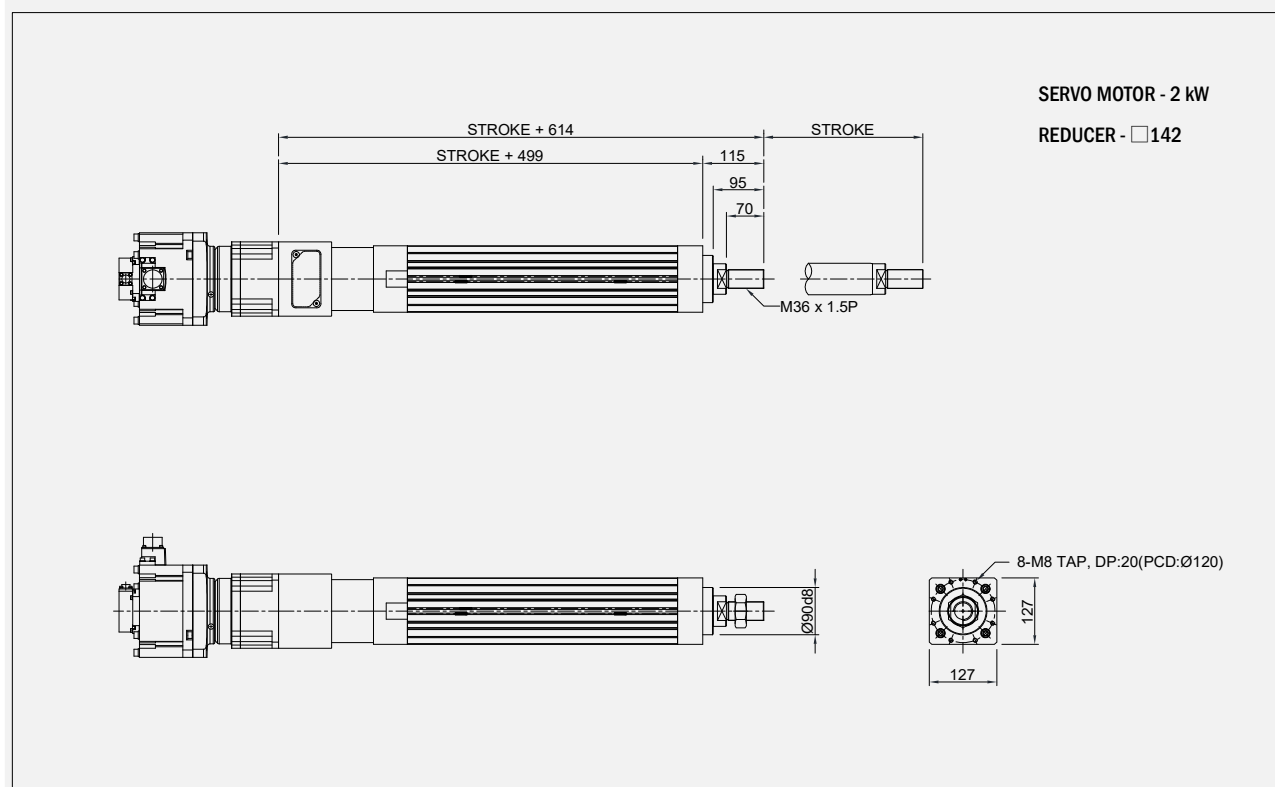
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	29.83	33.16	36.49	39.82	43.15	46.48	49.81	53.14
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	55.38	58.71	62.04	65.37	68.70	72.03	75.36	78.69

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

FM

FLANGE MOUNT

APS 127 - S 200 - W 020 G10 - S3 - M - FM

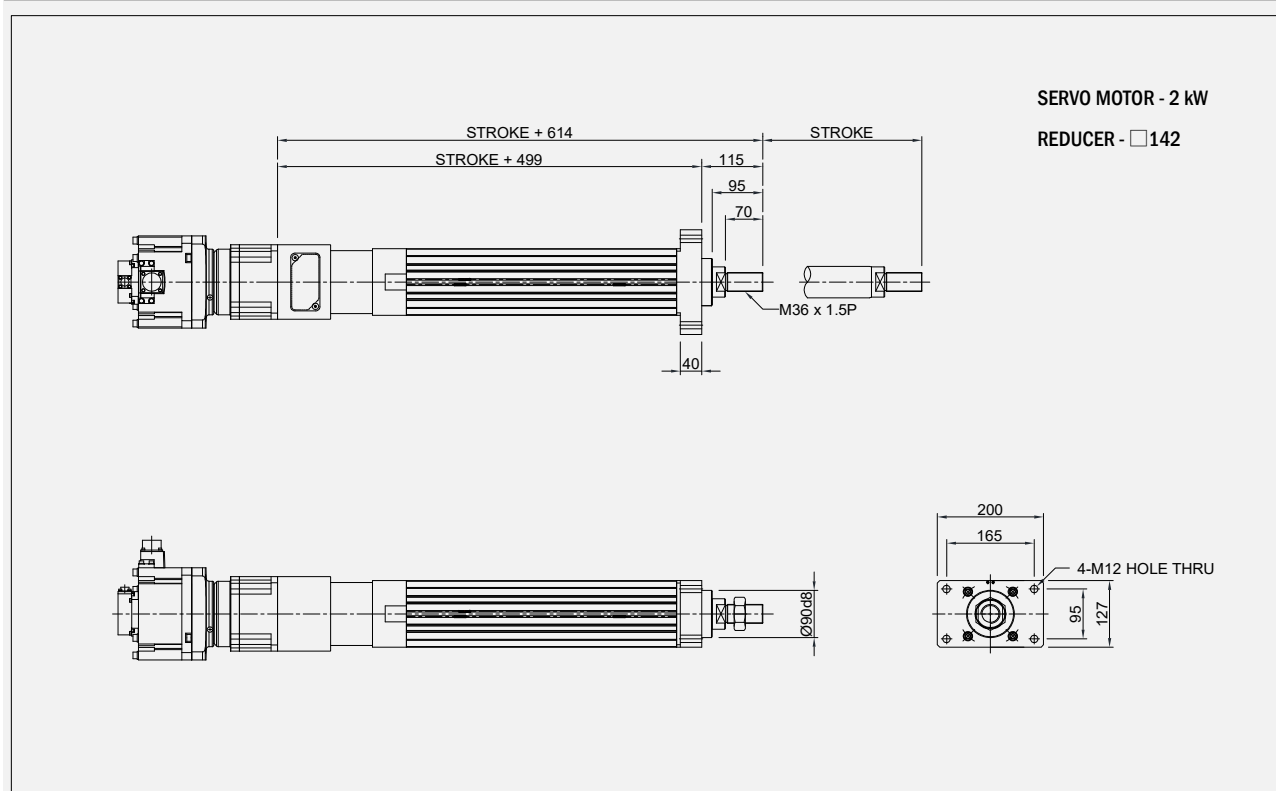
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.73	34.06	37.39	40.72	44.05	47.38	50.71	54.05
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	56.28	59.61	62.94	66.27	69.60	72.93	76.26	79.60

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

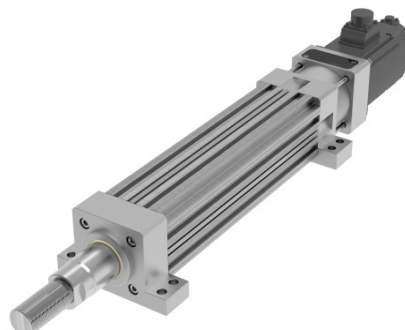
FFB

FLANGE FOOT MOUNT B TYPE

APS 127 - S 200 - W 020 G10 - S3 - M - FFB

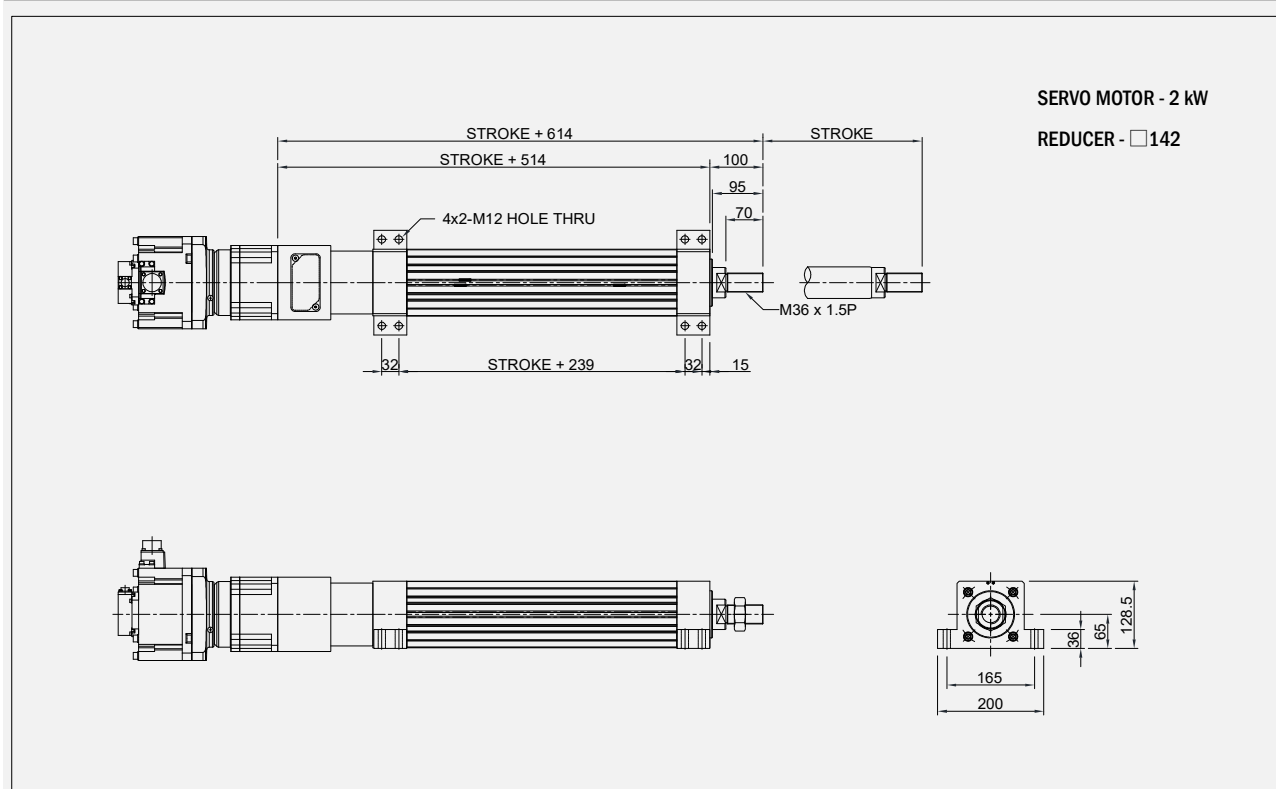
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

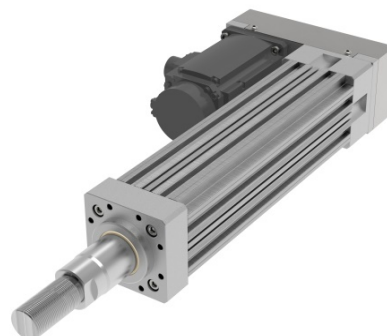
STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.87	34.20	37.53	40.86	44.19	47.52	50.86	54.19
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	56.42	59.75	63.08	66.41	69.74	73.07	76.41	79.74

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 127 - P 200 - W 015 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 127	
FRAME SIZE	□ 127	
ROD DIAMETER	Ø 60	
BALL SCREW LEAD	10	
APPLIED CAPACITY	1.5kW	2kW
RATED RPM	2000	2000
NORMAL PAYLOAD	750kgf	1000kgf
MAX. PAYLOAD	1500kgf	2000kgf
REPEATABILITY	C7 (0.02mm)	



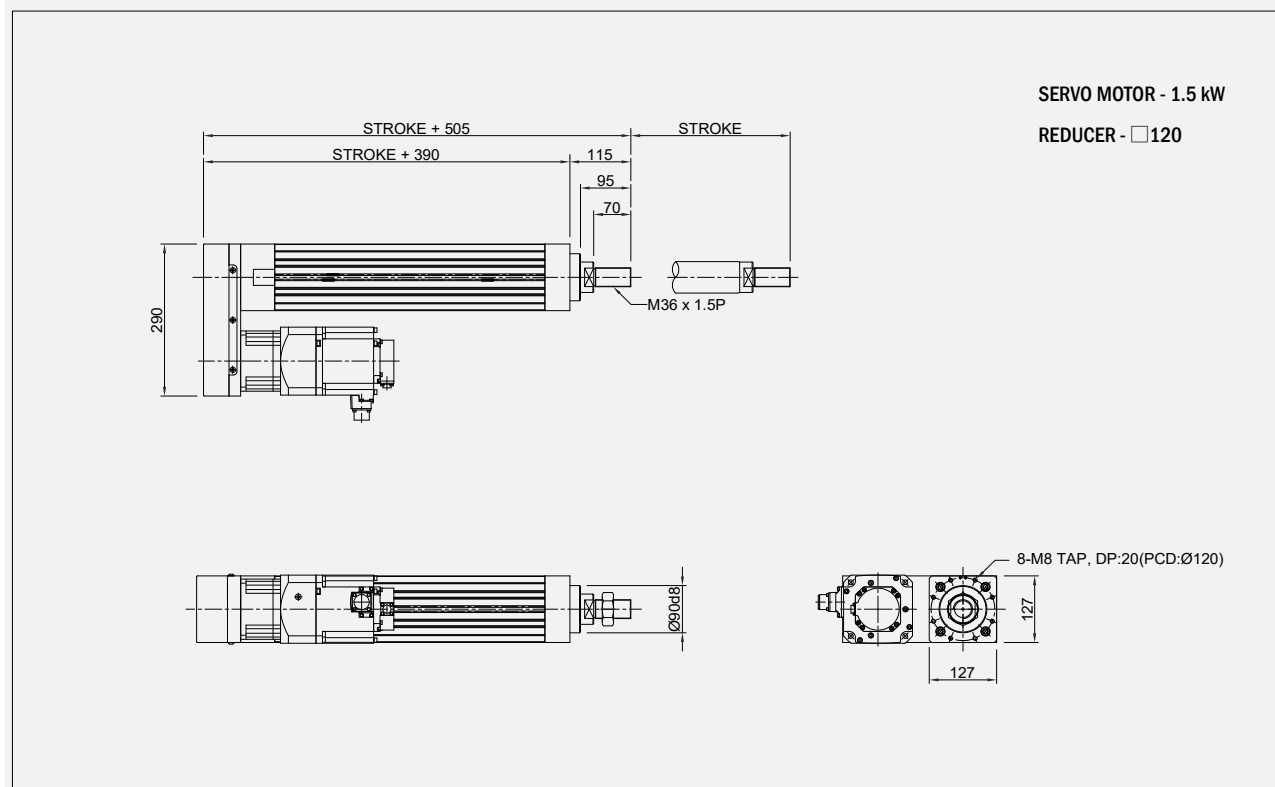
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	29.07	32.40	35.73	39.06	42.39	45.72	49.06	52.39
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	45.00	48.33	51.66	54.99	58.32	61.65	64.99	68.32

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

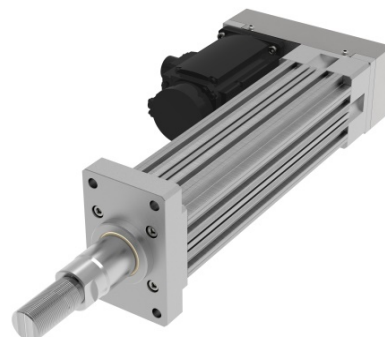
FMA

FLANGE MOUNT A TYPE

APS 127 - P 200 - W 015 G10 - S3 - M - FMA

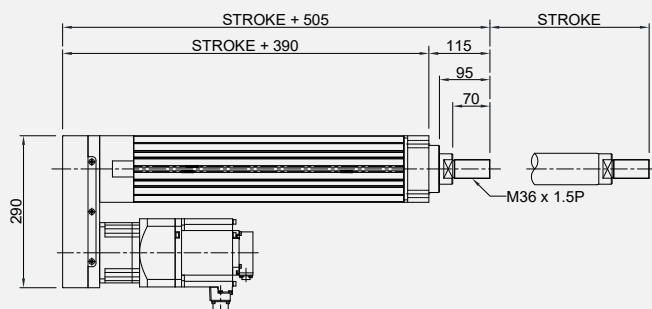
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



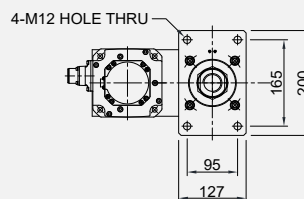
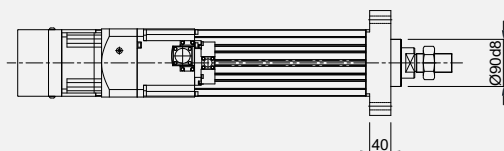
DIMENSIONS

unit : mm



SERVO MOTOR - 1.5 kW

REDUCER - □120



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	29.97	33.30	36.64	39.97	43.30	46.63	49.96	53.29
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	45.90	49.23	52.57	55.90	59.23	62.56	65.89	69.22

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

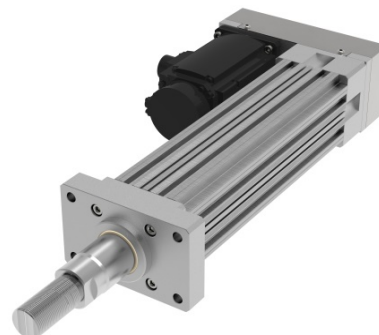
FMB

FLANGE MOUNT B TYPE

APS 127 - P 200 - W 015 G10 - S3 - M - FMB

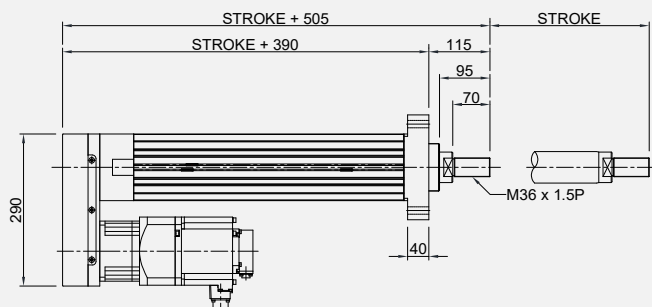
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



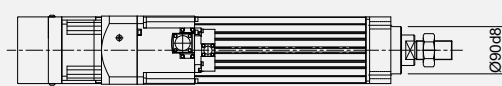
DIMENSIONS

unit : mm



SERVO MOTOR - 1.5 kW

REDUCER - □120



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	29.97	33.30	36.64	39.97	43.30	46.63	49.96	53.29
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	45.90	49.23	52.57	55.90	59.23	62.56	65.89	69.22

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

FFB

FLANGE FOOT MOUNT B TYPE

APS 127 - P 200 - W 015 G10 - S3 - M - FFB

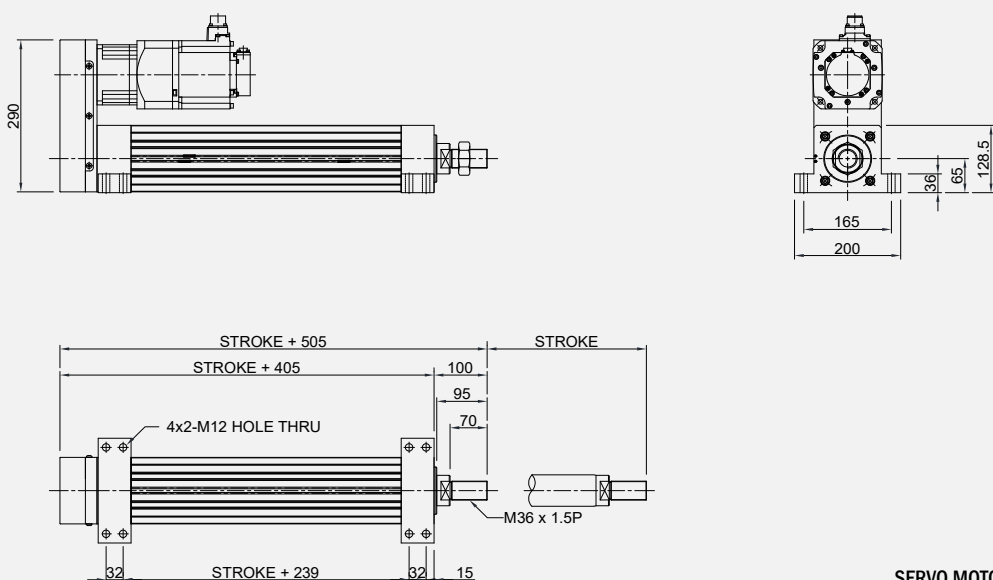
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



SERVO MOTOR - 1.5 kW

REDUCER - ☐ 120

STROKE WEIGHT

unit : kg

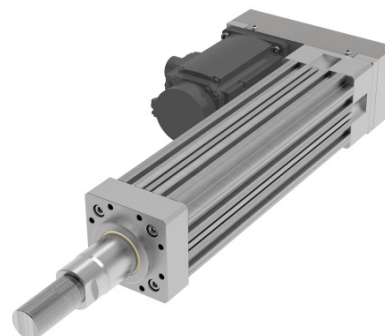
STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.12	33.45	36.78	40.11	43.44	46.77	50.10	53.43
SERVO MOTOR / GEAR	15.93	15.93	15.93	15.93	15.93	15.93	15.93	15.93
TOTAL WEIGHT	46.05	49.38	52.71	56.04	59.37	62.70	66.03	69.36

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 127 - P 200 - W 020 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 127	
FRAME SIZE	□ 127	
ROD DIAMETER	Ø 60	
BALL SCREW LEAD	10	
APPLIED CAPACITY	1.5kW	2kW
RATED RPM	2000	2000
NORMAL PAYLOAD	750kgf	1000kgf
MAX. PAYLOAD	1500kgf	2000kgf
REPEATABILITY	C7 (0.02mm)	



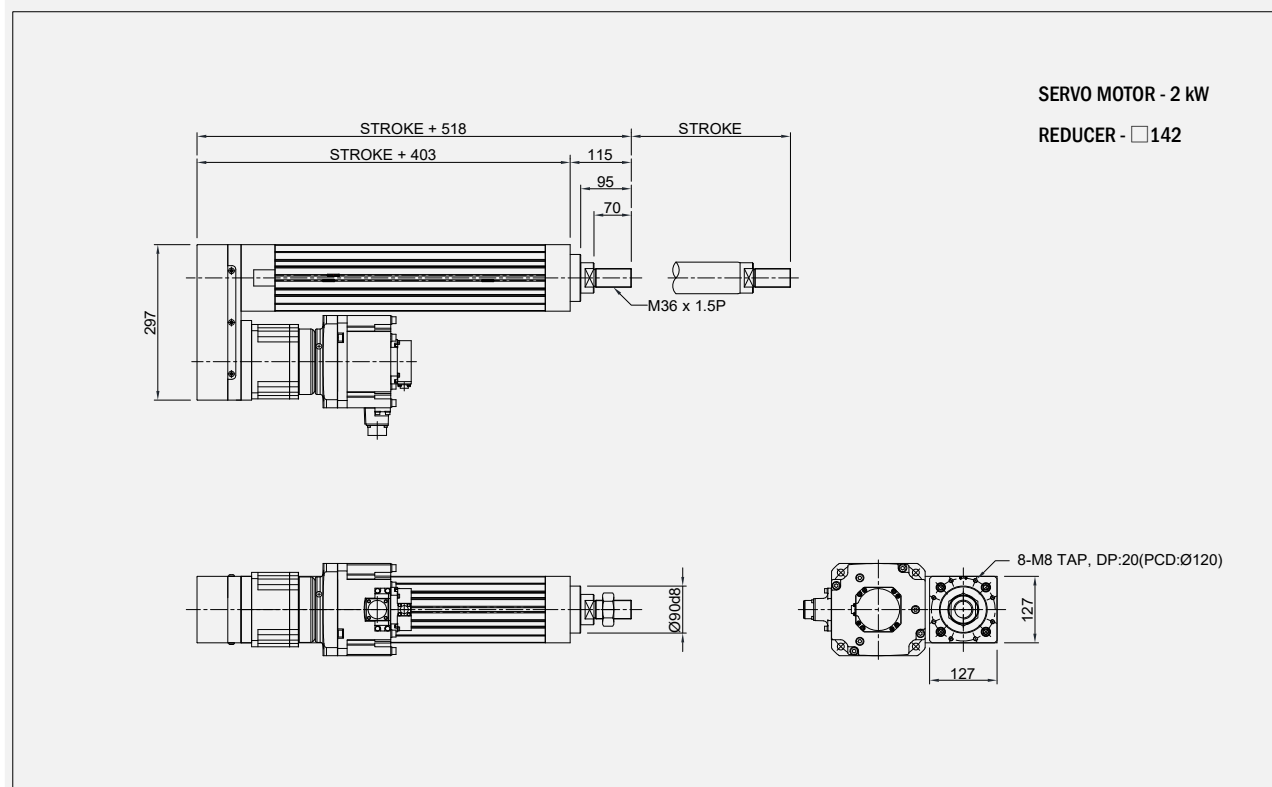
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	29.39	32.73	36.06	39.39	42.72	46.05	49.38	52.71
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	54.94	58.28	61.61	64.94	68.27	71.60	74.93	78.26

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

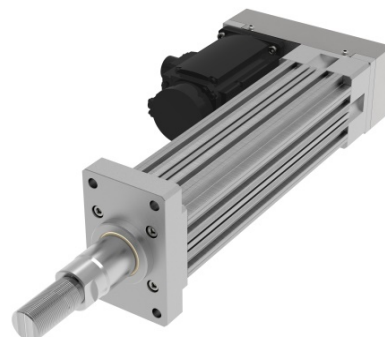
FMA

FLANGE MOUNT A TYPE

APS 127 - P 200 - W 020 G10 - S3 - M - FMA

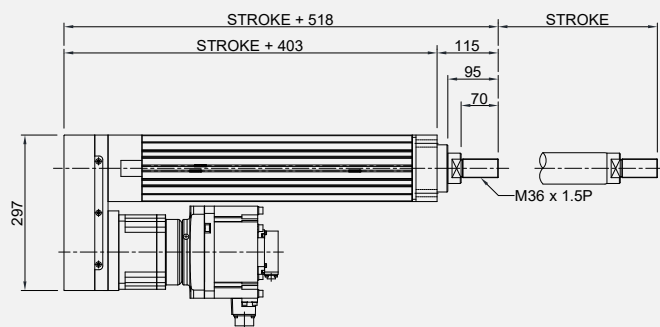
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



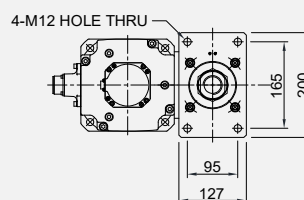
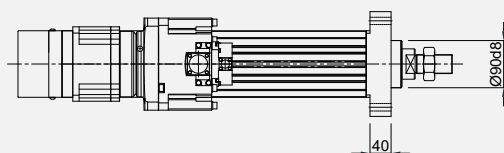
DIMENSIONS

unit : mm



SERVO MOTOR - 2 kW

REDUCER - □142



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.30	33.63	36.96	40.29	43.62	46.95	50.28	53.61
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	55.85	59.18	62.51	65.84	69.17	72.50	75.83	79.16

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

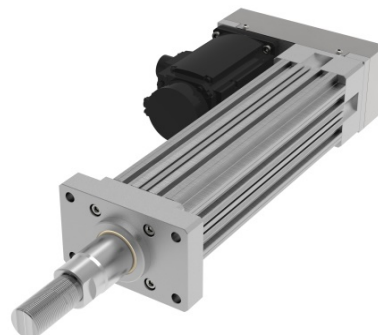
FMB

FLANGE MOUNT B TYPE

APS 127 - P 200 - W 020 G10 - S3 - M - FMB

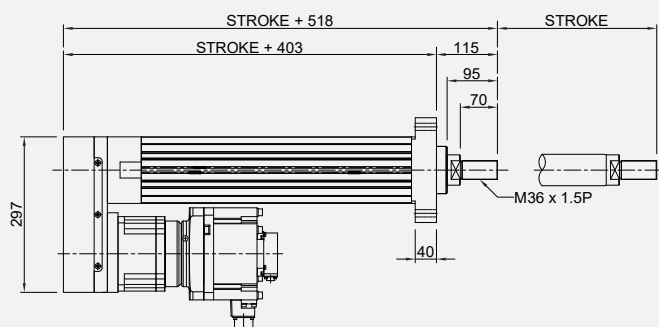
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



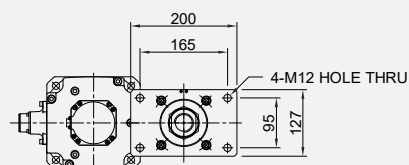
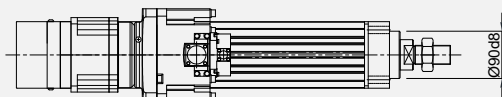
DIMENSIONS

unit : mm



SERVO MOTOR - 2 kW

REDUCER - □142



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.30	33.63	36.96	40.29	43.62	46.95	50.28	53.61
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	55.85	59.18	62.51	65.84	69.17	72.50	75.83	79.16

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 127

OPTIONS

FFB

FLANGE FOOT MOUNT B TYPE

APS 127 - P 200 - W 020 G10 - S3 - M - FFB

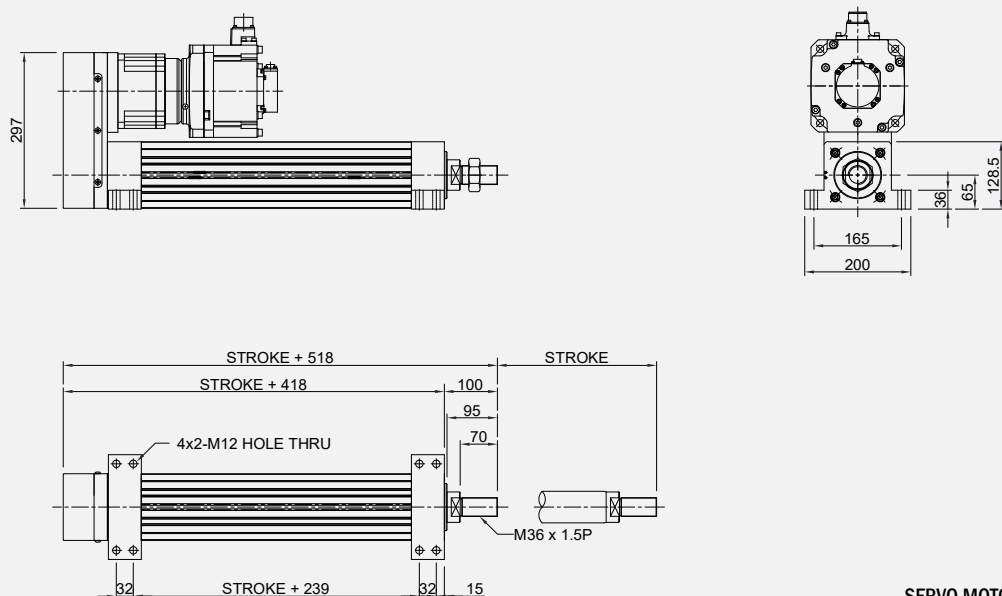
UP TO **35 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



SERVO MOTOR - 2 kW

REDUCER - ☐ 142

STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	30.44	33.77	37.10	40.43	43.76	47.09	50.42	53.75
SERVO MOTOR / GEAR	25.55	25.55	25.55	25.55	25.55	25.55	25.55	25.55
TOTAL WEIGHT	55.99	59.32	62.65	65.98	69.31	72.64	75.97	79.30

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER **APS 147**



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ORDER CODE

APS 147

APS 147 - P 600 - W 050 G 10 - S3 - M - FM
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

1. Series

APS TMS Power Cylinder Series

2. Frame (Body Frame Size)

APS 108 108mm X 108mm
APS 127 127mm X 127mm
APS 147 147mm X 147mm
APS 176 176mm X 176mm

3. Mounting Type

NONE without Type
S Servo Motor Straigh Type
P Servo Motor Parallel Type

4. Stroke

100 The standard stroke is in units of 100 mm.
000 Customized specifications are available.

5. Color

W Body Color - White Anodyzing
B Body Color - Black Anodyzing

6. Motor

NONE without Servo Motor
008 Servo Motor 750W
010 Servo Motor 1.0kW
035 Servo Motor 3.5kW
070 Servo Motor 7.0kW
110 Servo Motor 11.0kW

7. Reducer

NONE Without Gear
G With Gear

8. Ratio

NONE without Ratio
03 ~ 10 Gear Ratio

9. Sensor (magnetic, NPN, 3wire)

NONE Without Sensor
S3 (P) Standard Spec. NO(Origin-1) + NC(Limit-2)
A3 (P) NO(Normal Open), 3EA
B3 (P) NC(Normal Close), 3EA

※ () is the PNP order specification.

10. ROD Shape

M Male Thread
F Female Thread
RB Rod End Bearing
RC Rod Clevis

11. Options (Mount Bracket)

NONE without Options
FM Flange Mount
FF Flange Foot Mount
PC Pulley Cover Clevis Mount
TRN Trunnion Mount

Mounting Types and Options: Reference Views

S type



Straight-mounted servo motors

P type



Parallel-mounted servo motors

OPTIONS

S type (Straight-mounted servo motors)

FM



Flange Mount type

FFB



Flange Foot Mount B type

OPTIONS

P type (Parallel-mounted servo motors)

FMA



Flange Mount A type

FMB



Flange Mount B type

FFB



Flange Foot Mount B type

FORCE TABLE

APS 147

Servo Motor (kW)	Gear	Ratio	Speed ¹ (mm/sec)	Force (kN)					
				50%	60%	70%	80%	90%	100%
5.0	□ 142	3	222	8.6	11.1	13.4	15.7	18.0	20.2
		4	166	12.4	15.5	18.6	21.6	24.6	27.6
		5	133	16.1	19.9	23.7	27.5	31.2	34.9
		6	111	19.7	24.3	28.8	33.3	37.7	42.1
		7	95	23.4	28.7	33.9	39.1	44.3	49.4
		8	83	27.0	33.1	39.0	44.9	50.8	
		9	74	30.7	37.4	44.1	50.7		
		10	66	34.3	41.8	49.2			

Note 1. The speeds indicated above are based on the servo motor's rated speed of 2,000 RPM

The settings in the table above are based on a 500mm stroke.

APS 147 - S 200 - W 050 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 147
FRAME SIZE	□ 147
ROD DIAMETER	Ø 70
BALL SCREW LEAD	20
APPLIED CAPACITY	5 kW
RATED RPM	2000
NORMAL PAYLOAD	1500kgf
MAX. PAYLOAD	3000kgf
REPEATABILITY	C7 (0.02mm)



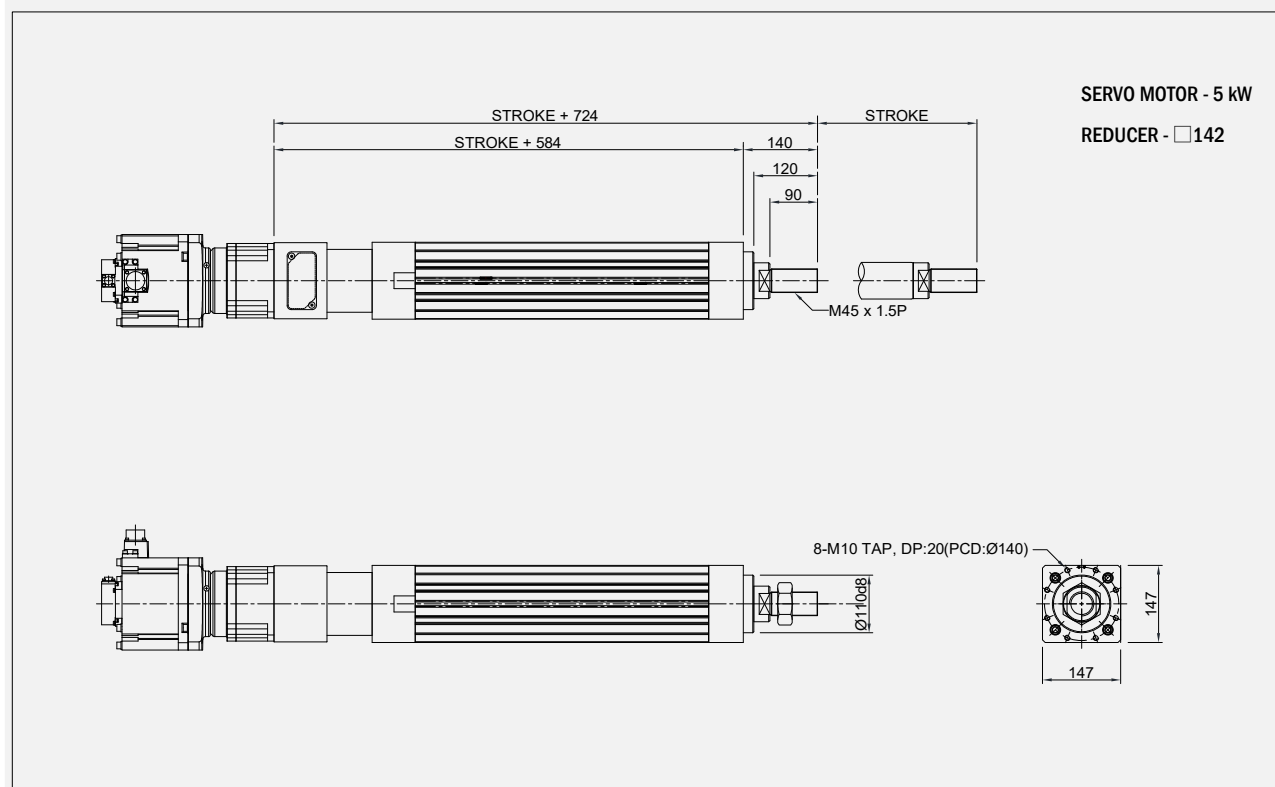
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	46.0	48.2	54.8	59.2	63.6	68.0	72.5	76.9
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	80.6	82.8	89.4	93.8	98.2	102.6	107.1	111.5

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 147

OPTIONS

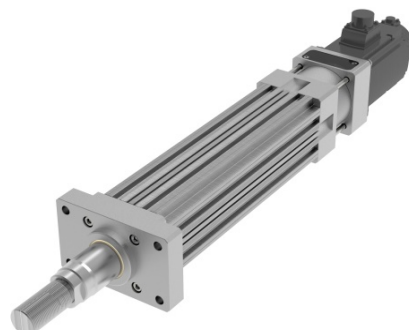
FM

FLANGE MOUNT

APS 147 - S 200 - W 050 G10 - S3 - M - FM

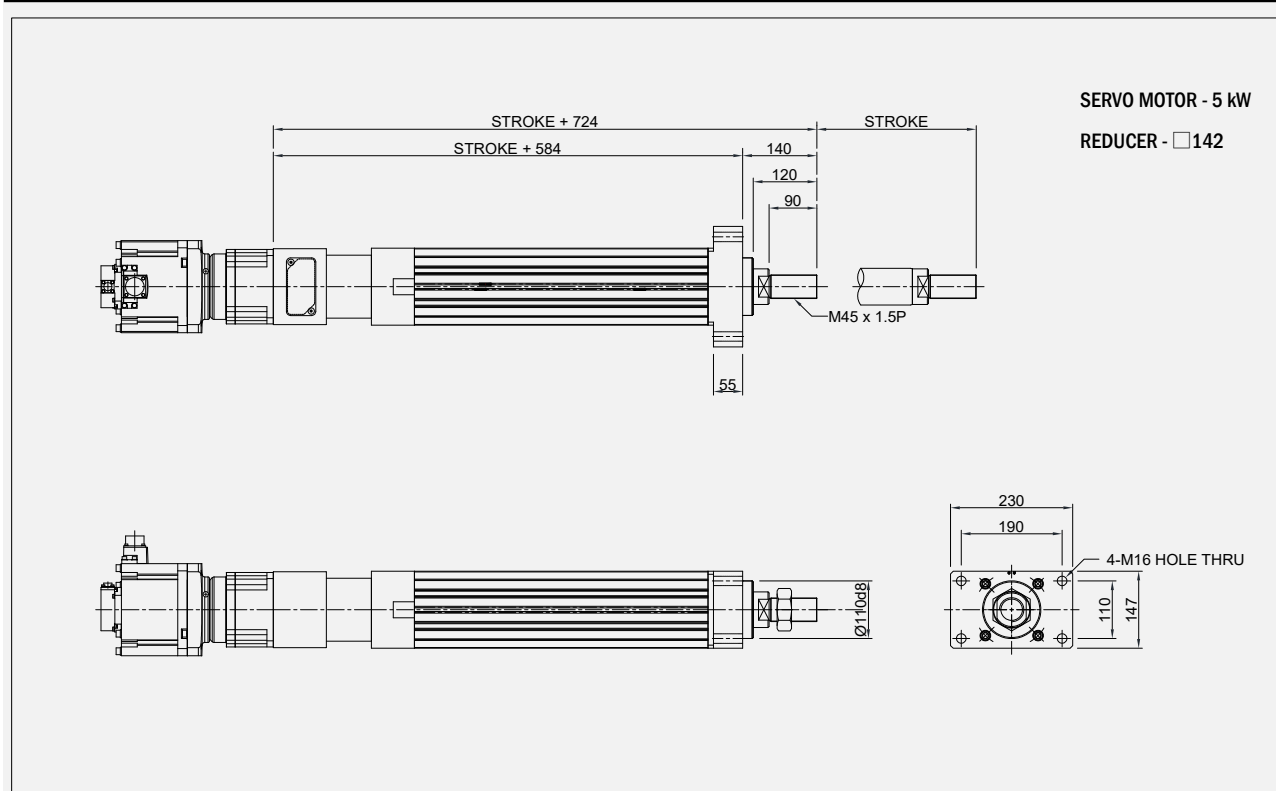
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	47.6	49.9	56.5	60.9	65.3	69.7	74.1	78.5
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	82.2	84.5	91.1	95.5	99.9	104.3	108.7	113.1

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 147

OPTIONS

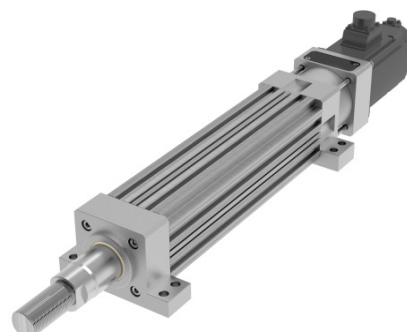
FFB

FLANGE FOOT MOUNT B TYPE

APS 147 - S 200 - W 050 G10 - S3 - M - FFB

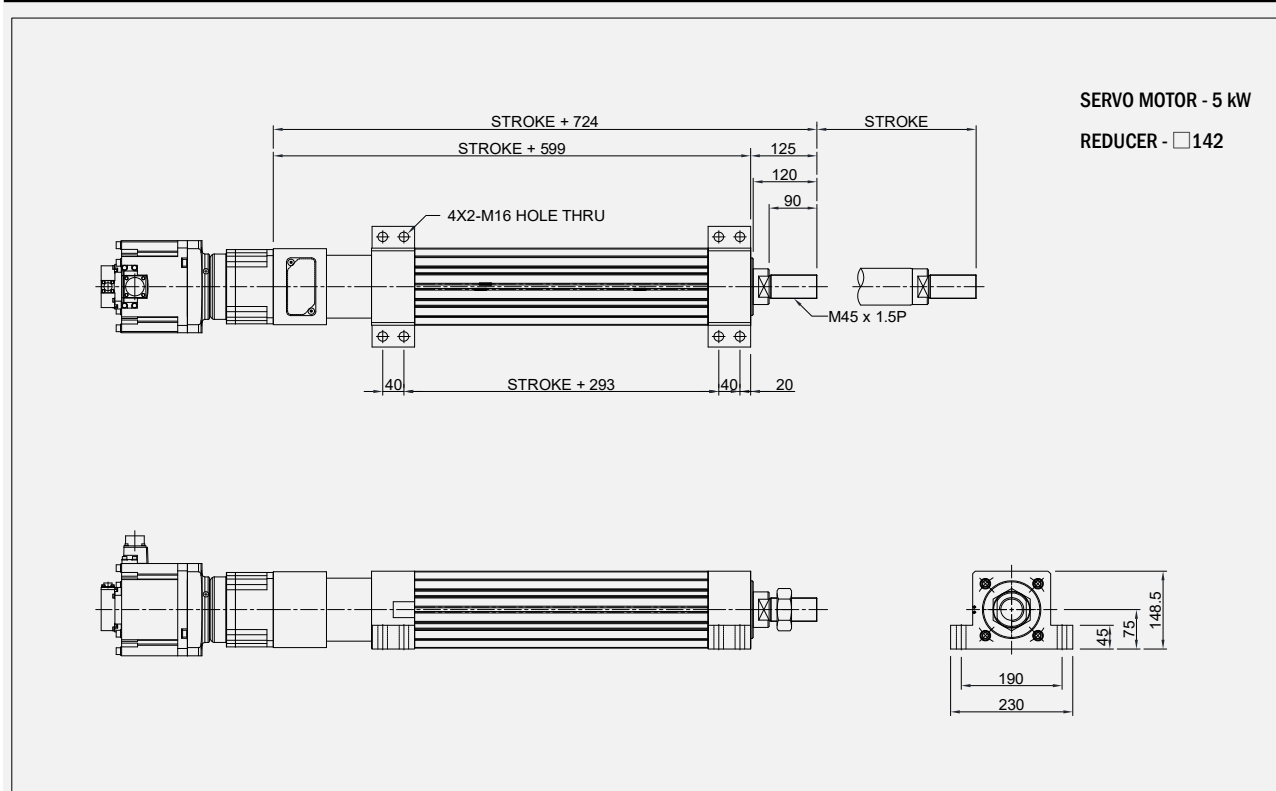
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

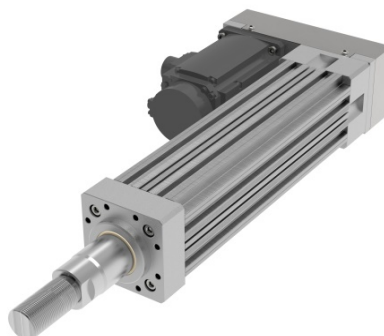
STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	47.7	50.0	56.6	61.0	65.4	70.0	74.2	78.6
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	82.3	84.6	91.2	95.6	100.0	104.6	108.8	113.2

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 147 - P 200 - W 050 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 147
FRAME SIZE	□ 147
ROD DIAMETER	Ø 70
BALL SCREW LEAD	20
APPLIED CAPACITY	5 kW
RATED RPM	2000
NORMAL PAYLOAD	1500kgf
MAX. PAYLOAD	3000kgf
REPEATABILITY	C7 (0.02mm)



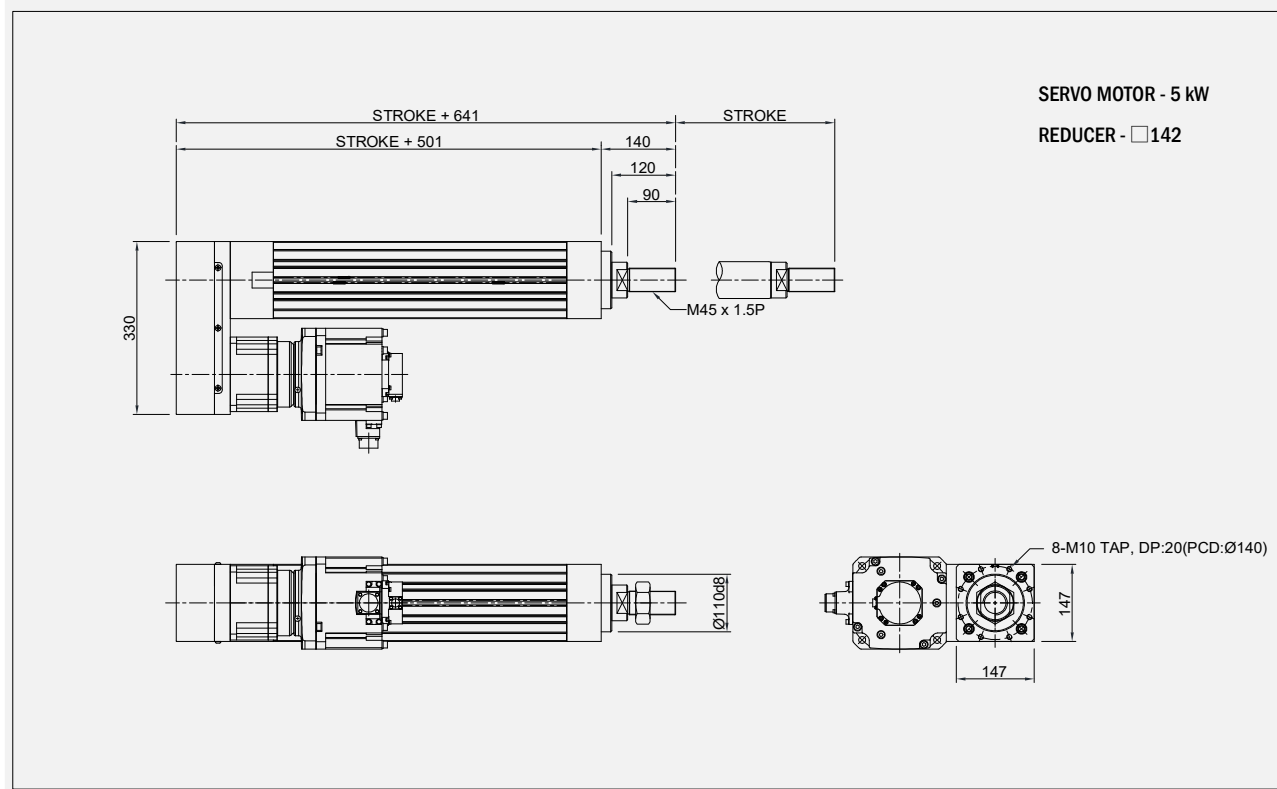
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	48.6	50.8	57.4	61.9	66.3	70.7	75.1	79.5
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	83.2	85.4	92.0	96.5	100.9	105.3	109.7	114.1

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 147

OPTIONS

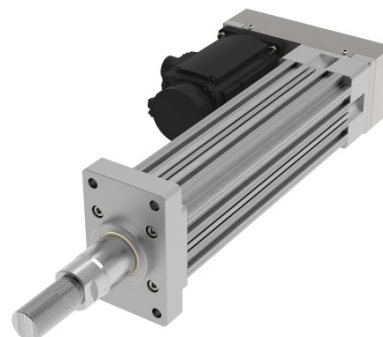
FMA

FLANGE MOUNT A TYPE

APS 147 - P 200 - W 050 G10 - S3 - M - FMA

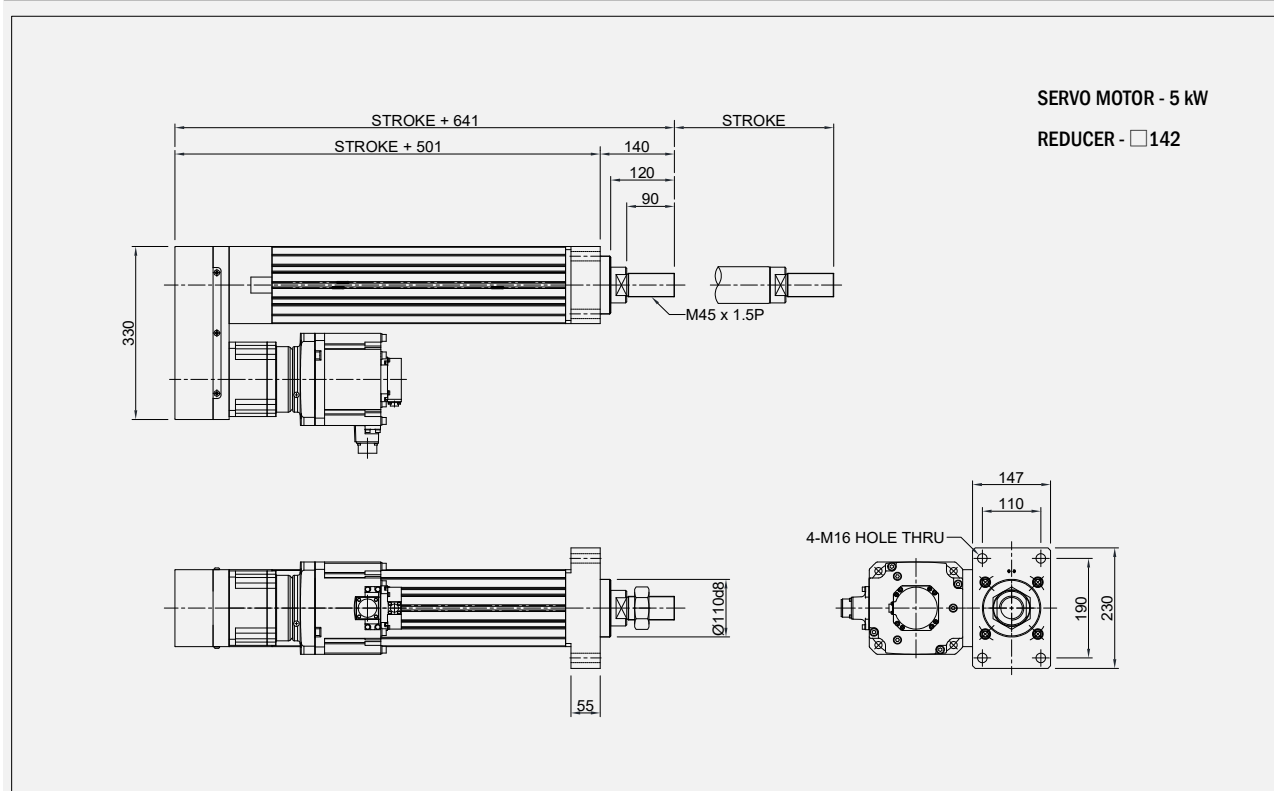
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	50.3	52.5	59.1	63.5	67.9	72.3	76.7	81.2
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	84.9	87.1	93.7	98.1	102.5	106.9	111.3	115.8

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 147

OPTIONS

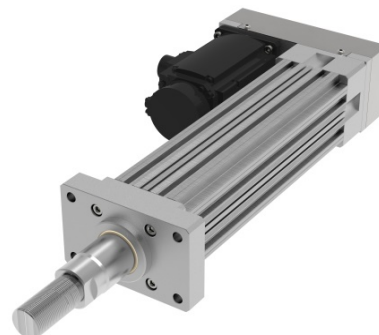
FMB

FLANGE MOUNT B TYPE

APS 147 - P 200 - W 050 G10 - S3 - M - FMB

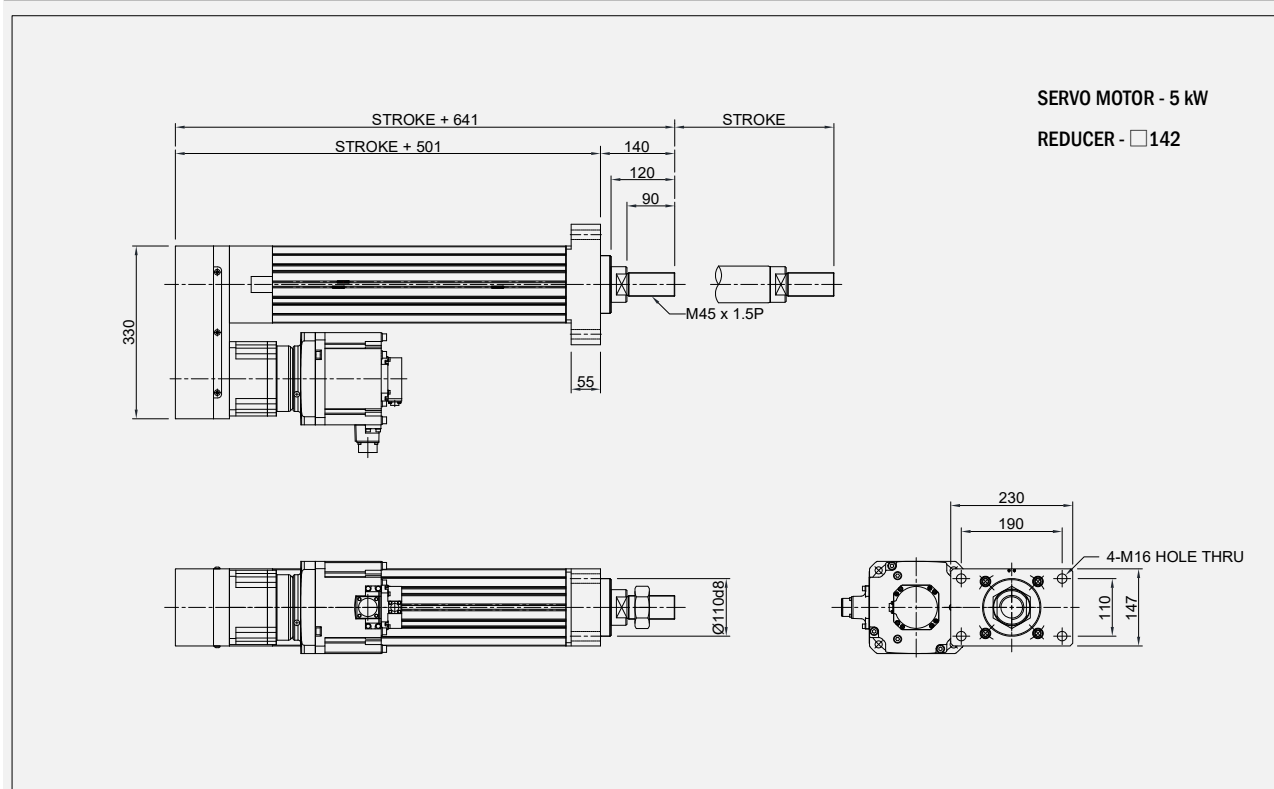
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	50.3	52.5	59.1	63.5	67.9	72.3	76.7	81.2
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	84.9	87.1	93.7	98.1	102.5	106.9	111.3	115.8

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 147

OPTIONS

FFB

FLANGE FOOT MOUNT B TYPE

APS 147 - P 200 - W 050 G10 - S3 - M - FFB

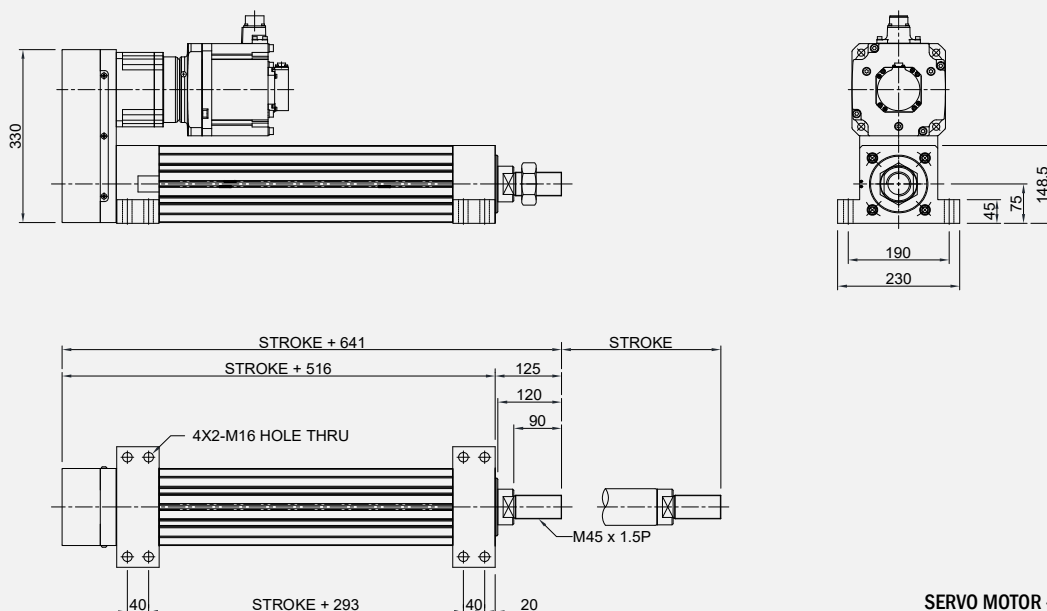
UP TO **50 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



SERVO MOTOR - 5 kW

REDUCER - □142

STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	50.4	52.6	59.2	63.6	68.0	72.4	76.8	81.3
SERVO MOTOR / GEAR	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL WEIGHT	85.0	87.2	93.8	98.2	102.6	107.0	111.4	115.9

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.



POWER CYLINDER **APS 176**



www.tms-korea.co.kr



ORDER CODE

APS 176

APS 176 - P 500 - W 070 G 10 - S3 - M - FM
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

1. Series

APS TMS Power Cylinder Series

2. Frame (Body Frame Size)

APS 108 108mm X 108mm
APS 127 127mm X 127mm
APS 147 147mm X 147mm
APS 176 176mm X 176mm

3. Mounting Type

NONE without Type
S Servo Motor Straigh Type
P Servo Motor Parallel Type

4. Stroke

100 The standard stroke is in units of 100 mm.
000 Customized specifications are available.

5. Color

W Body Color - White Anodyzing
B Body Color - Black Anodyzing

6. Motor

NONE without Servo Motor
008 Servo Motor 750W
010 Servo Motor 1.0kW
035 Servo Motor 3.5kW
070 Servo Motor 7.0kW
110 Servo Motor 11.0kW

7. Reducer

NONE Without Gear
G With Gear

8. Ratio

NONE without Ratio
03 ~ 10 Gear Ratio

9. Sensor (magnetic, NPN, 3wire)

NONE Without Sensor
S3 (P) Standard Spec. NO(Origin-1) + NC(Limit-2)
A3 (P) NO(Normal Open), 3EA
B3 (P) NC(Normal Close), 3EA

※ () is the PNP order specification.

10. ROD Shape

M Male Thread
F Female Thread
RB Rod End Bearing
RC Rod Clevis

11. Options (Mount Bracket)

NONE without Options
FM Flange Mount
FF Flange Foot Mount
PC Pulley Cover Clevis Mount
TRN Trunnion Mount

Mounting Types and Options: Reference Views

S type



Straight-mounted servo motors

P type



Parallel-mounted servo motors

OPTIONS

S type (Straight-mounted servo motors)

FM



Flange Mount type

FFB



Flange Foot Mount B type

OPTIONS

P type (Parallel-mounted servo motors)

FMA



Flange Mount A type

FMB



Flange Mount B type

FFB



Flange Foot Mount B type

FORCE TABLE

APS 176

Servo Motor (kW)	Gear	Ratio	Speed ¹ (mm/sec)	Force (kN)					
				50%	60%	70%	80%	90%	100%
7.0	□ 180	3	222	10.3	14.1	17.6	20.9	24.2	27.4
		4	166	15.7	20.4	24.9	29.3	33.5	37.8
		5	133	21.0	26.7	32.1	37.5	42.8	48.0
		6	111	26.2	32.8	39.3	45.6	51.9	58.2
		7	95	31.3	39.0	46.4	53.8	61.1	68.4
		8	83	36.4	45.1	53.6	61.9	70.2	
		9	74	41.5	51.2	60.7	70.1		
		10	66	46.6	57.3	67.8			

Note 1. The speeds indicated above are based on the servo motor's rated speed of 2,000 RPM

The settings in the table above are based on a 500mm stroke.

APS 176 - S 200 - W 070 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 176
FRAME SIZE	□ 176
ROD DIAMETER	Ø 80
BALL SCREW LEAD	20
APPLIED CAPACITY	7 Kw
RATED RPM	2000
NORMAL PAYLOAD	1700kgf
MAX. PAYLOAD	3500kgf
REPEATABILITY	C7 (0.02mm)



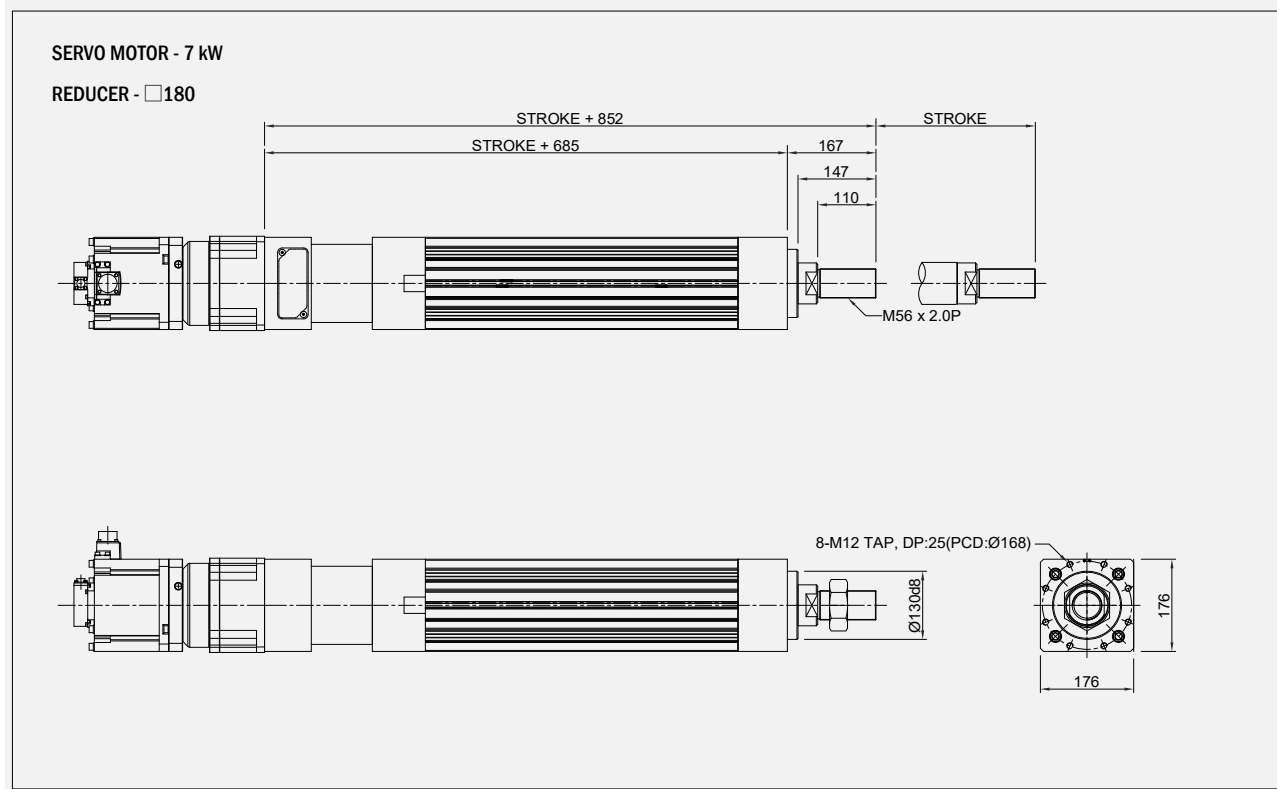
UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	72.8	77.4	82.0	86.5	91.1	95.7	100.2	104.8
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	128.1	132.7	137.3	141.8	146.4	151.0	155.5	160.1

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 176

OPTIONS

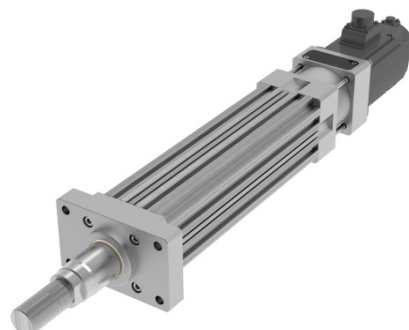
FM

FLANGE MOUNT

APS 176 - S 200 - W 070 G10 - S3 - M - FM

UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

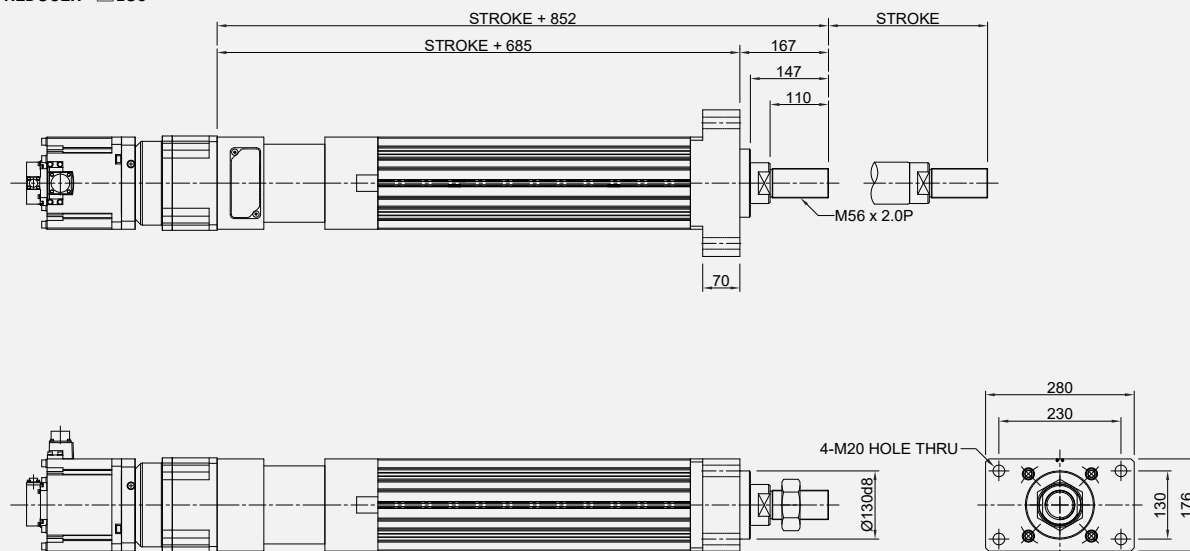


DIMENSIONS

unit : mm

SERVO MOTOR - 7 kW

REDUCER - □180



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	76.4	80.9	85.5	90.1	94.6	99.2	103.8	108.4
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	131.7	136.2	140.8	145.4	149.9	154.5	159.1	163.7

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 176

OPTIONS

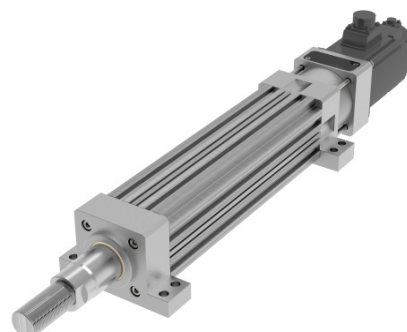
FFB

FLANGE FOOT MOUNT B TYPE

APS 176 - S 200 - W 070 G10 - S3 - M - FFB

UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

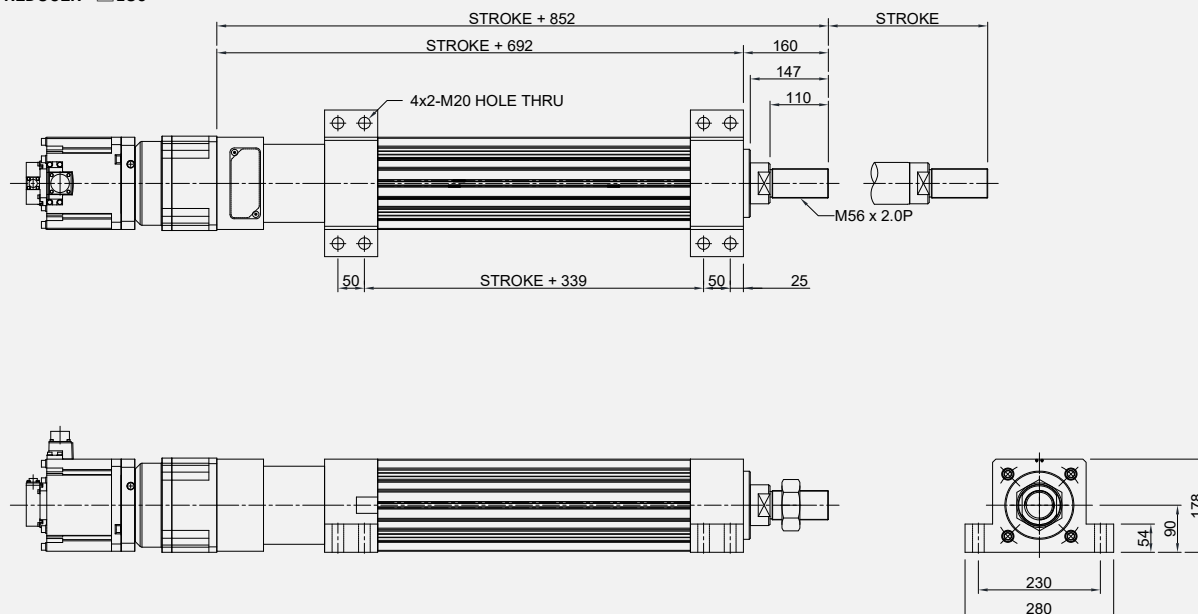


DIMENSIONS

unit : mm

SERVO MOTOR - 7 kW

REDUCER - □180



STROKE WEIGHT

unit : kg

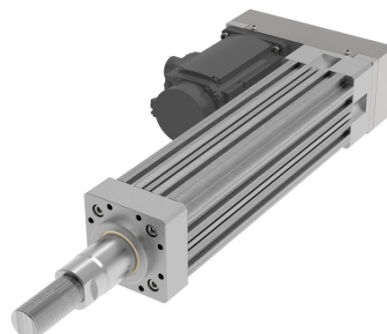
STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	76.2	80.8	85.3	89.9	94.5	99.0	103.6	108.2
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	131.5	136.1	140.6	145.2	149.8	154.3	158.9	163.5

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

APS 176 - P 200 - W 070 G10 - S3 - M

SPECIFICATIONS

MODEL	APS 176
FRAME SIZE	□ 176
ROD DIAMETER	Ø 80
BALL SCREW LEAD	20
APPLIED CAPACITY	7 Kw
RATED RPM	2000
NORMAL PAYLOAD	1700kgf
MAX. PAYLOAD	3500kgf
REPEATABILITY	C7 (0.02mm)



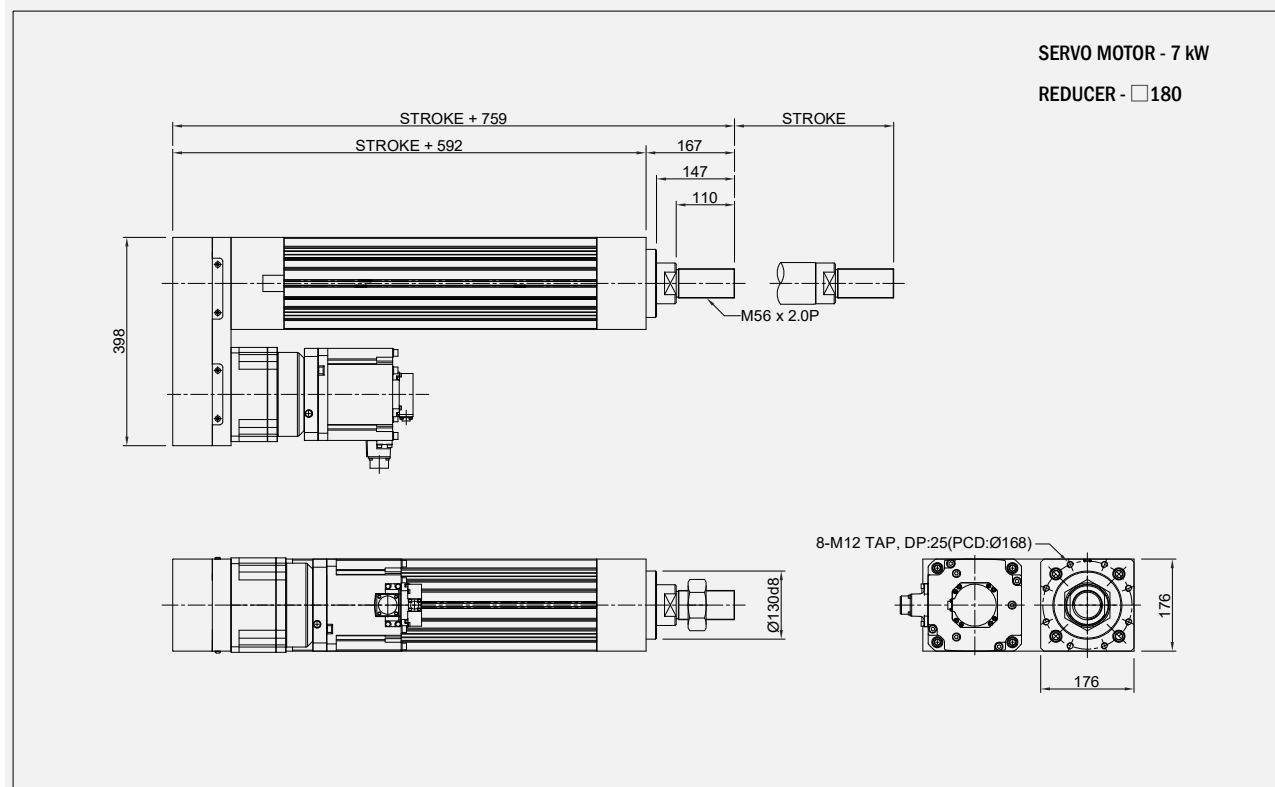
UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.

CAUTION : Overuse of the indicated capabilities may cause overheating, buckling and resonance, and a sudden decrease in lifespan of the unit.

DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	78.6	83.2	87.8	92.3	96.9	101.1	106.1	110.6
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	133.9	138.5	143.1	147.6	152.2	156.4	161.4	165.9

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 176

OPTIONS

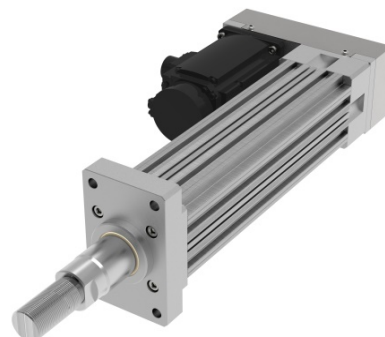
FMA

FLANGE MOUNT A TYPE

APS 176 - P 200 - W 070 G10 - S3 - M - FMA

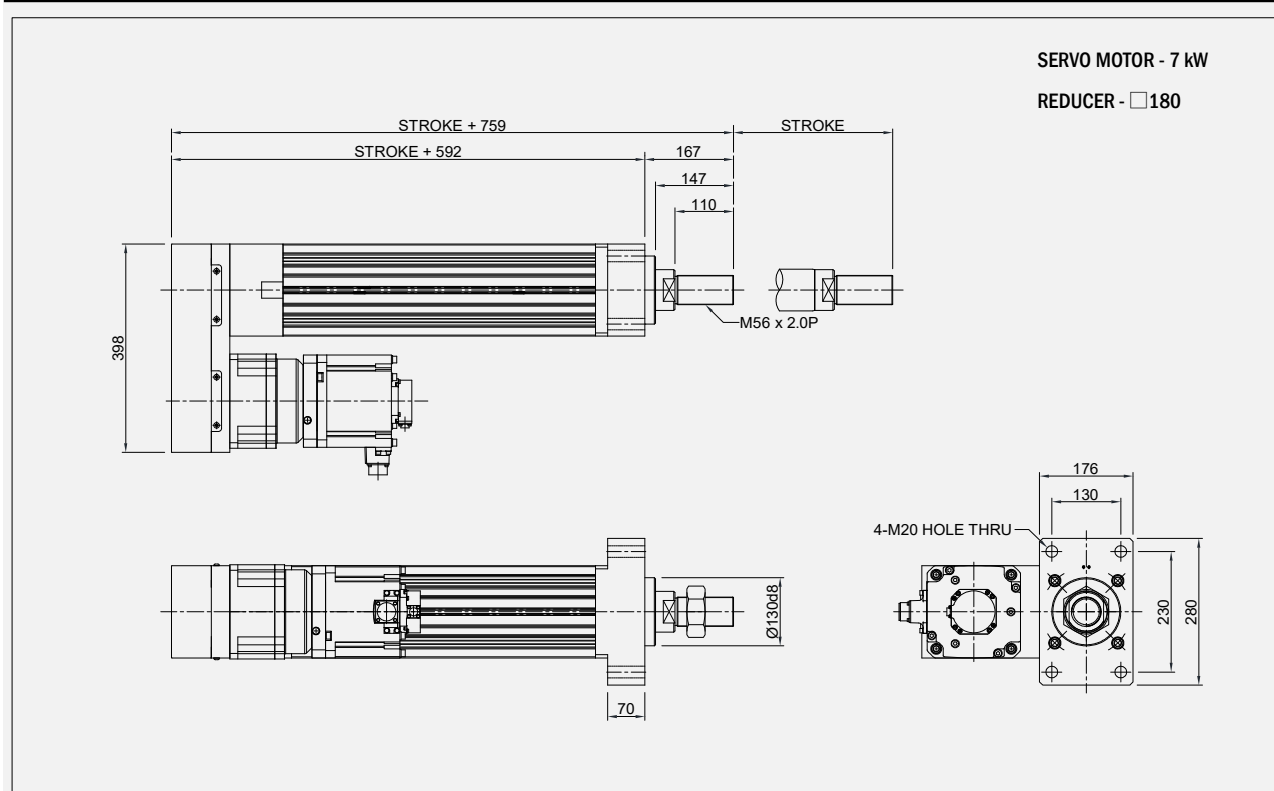
UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	82.2	86.7	91.3	95.9	100.5	105.0	109.6	114.2
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	137.5	142.0	146.6	151.2	155.8	160.3	164.9	169.5

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 176

OPTIONS

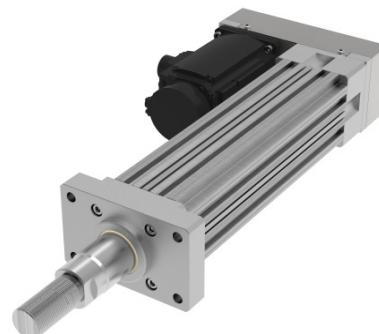
FMB

FLANGE MOUNT B TYPE

APS 176 - P 200 - W 070 G10 - S3 - M - FMB

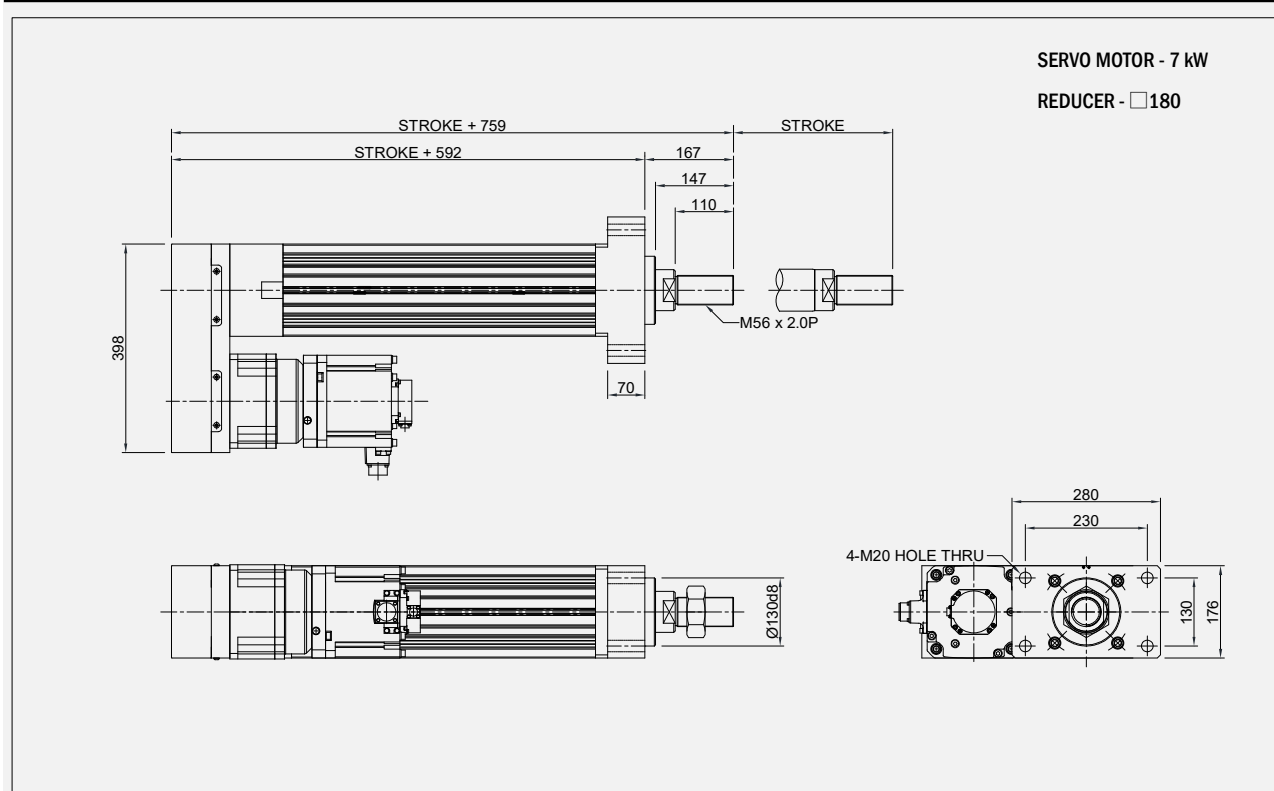
UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	82.2	86.7	91.3	95.9	100.5	105.0	109.6	114.2
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	137.5	142.0	146.6	151.2	155.8	160.3	164.9	169.5

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

POWER CYLINDER APS series

APS 176

OPTIONS

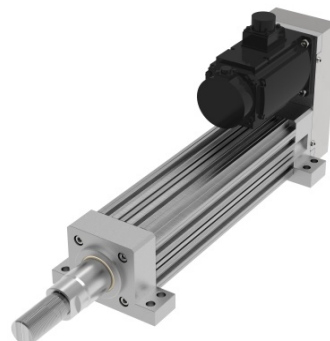
FFB

FLANGE FOOT MOUNT B TYPE

APS 176 - P 200 - W 070 G10 - S3 - M - FFB

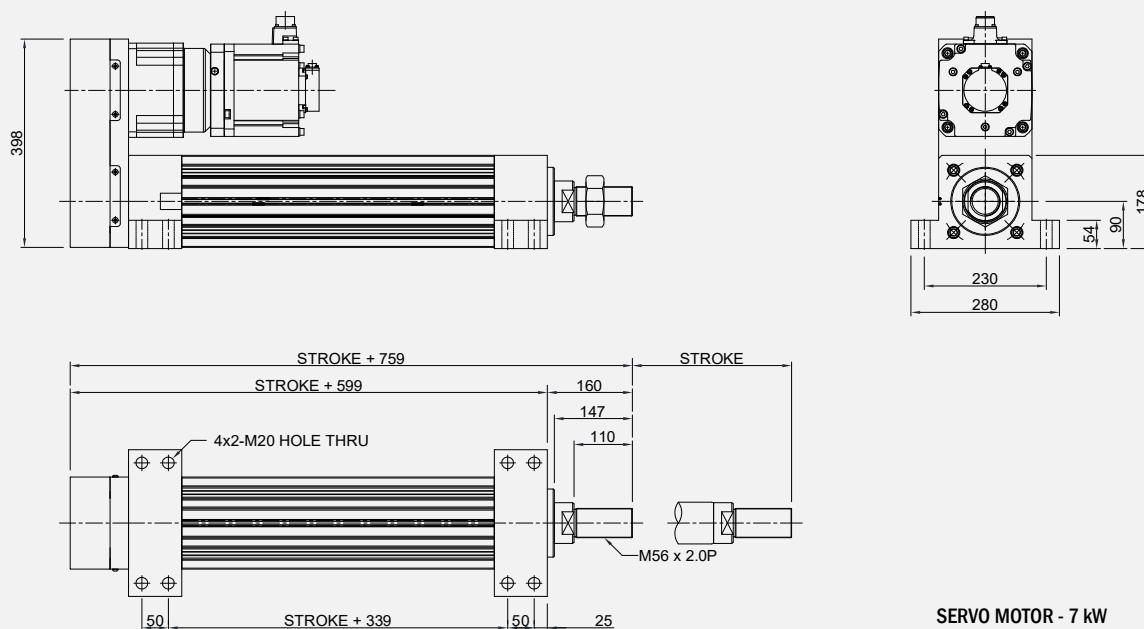
UP TO **58 kN**

The values indicated represent the maximum allowable load. For higher load capacities, please consult with TMS for customized solutions.



DIMENSIONS

unit : mm



SERVO MOTOR - 7 kW

REDUCER - □180

STROKE WEIGHT

unit : kg

STROKE (mm)	100	200	300	400	500	600	700	800
UNIT WEIGHT	82.0	86.6	91.1	95.7	100.3	104.9	109.4	114.0
SERVO MOTOR / GEAR	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
TOTAL WEIGHT	137.3	141.9	146.4	151.0	155.6	160.2	164.7	169.3

※ The indicated strokes are not the maximum limits. Please contact TMS if a longer stroke is required for your application.

HIGH PERFORMANCE ROBO CYLINDER



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