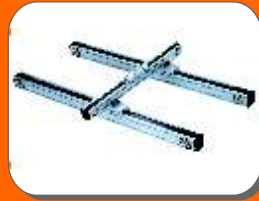




ACTUATORS, X-Y TABLE



LINEAR GUIDEWAY & LM BEARING



BALL SCREW, COUPLING, TIMING BELT & PULLEY



MOTION & CONTROL



ROTARY INDEXING TABLE



ROBOFLEX CHAIN



BEARINGS & BUSHES



AL PROFILE & ACCESSORIES



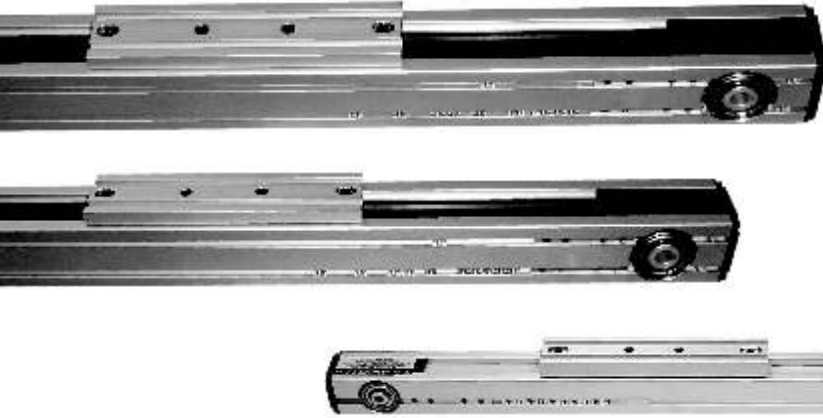
MAXIMA ACTUATOR

BELT DRIVE ACTUATOR

SERO[®]

Long Stroke : up to 3.8 mtrs
High Speed : upto 8 mtrs/sec

- Shows quiet and fast sliding
- Slides quickly and quietly
- Has a long life span
- Is a belt driver type actuator and is good for axis up to several meters in length
- Provides customer oriented option
- Can handle weight over 3,000 N



Sero (which is belt driven type) is high speed module made up with aluminum body combined with steel guide shaft and spacial machined speed guide carrier as it's slider. Belt tension can be adjusted easily by tightening screw simply and it is easy to expand to several axis usage.

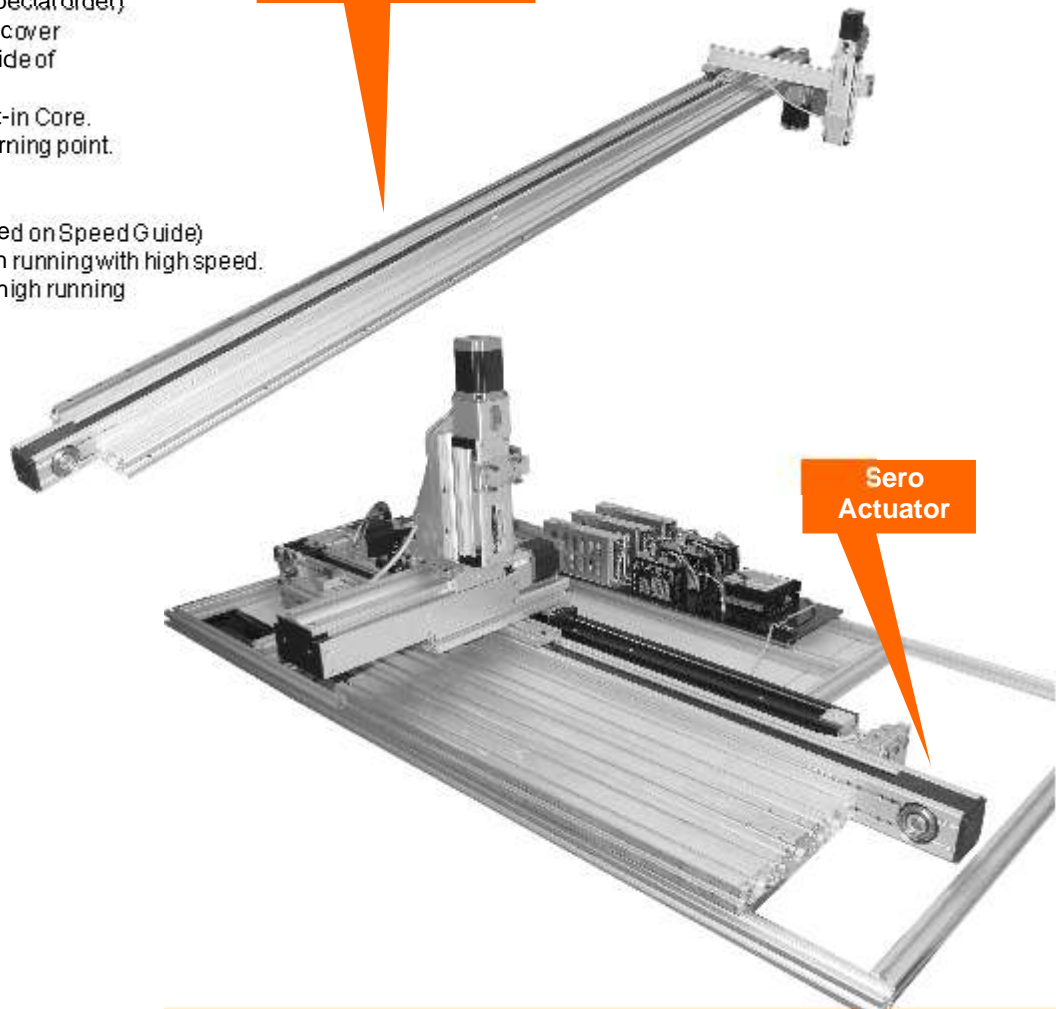
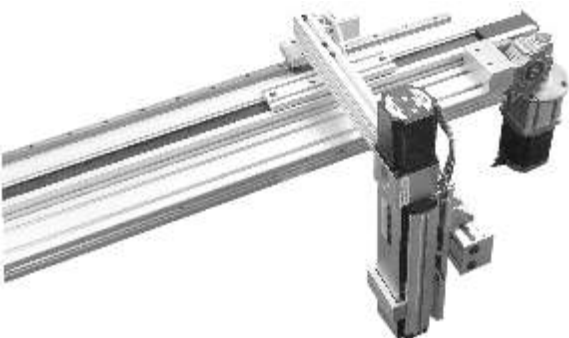
Maximum speed	: 8 m/s
Running accuracy	: 0.08 mm/m
Maximum length	: 4M without any jointing (6M available on special order)
Assembling slider	: Using slot of block cover
Assembling Module	: Using slot on the side of aluminum body.
Belt	: HTD5 or S5M built-in Core. No backlash on turning point.
Repeatability	: ±0.05 mm

Long Stroke Possible with Sero

Sero (the most up-to-date linear module integrated on Speed Guide) is easy to adjust clearance and guarantee smooth running with high speed. Adding to this, it has excellent load capacity and high running accuracy compared with the same level. Also, has dust-proof feature. There are many kinds of model named SERO41, SERO61, SERO81 & SERO101. It's load capacity is up to 20,000 n.

Complete Integrated Solutions available with Sero X-Y-Z axis with motor, driver, Controller Sensor, Cables etc

Sero Actuator



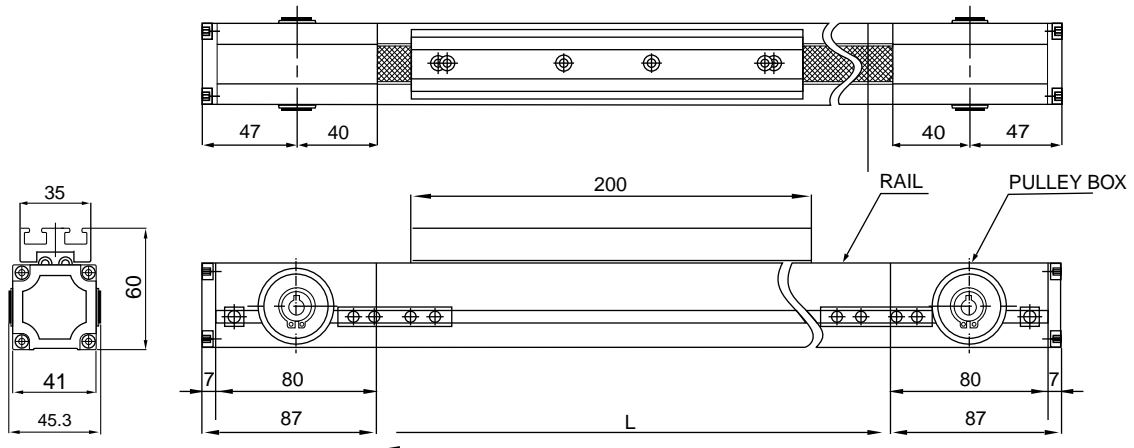
MAXIMA ACTUATOR

BELT DRIVE ACTUATOR

SERO-41



Outline



Precision Degree

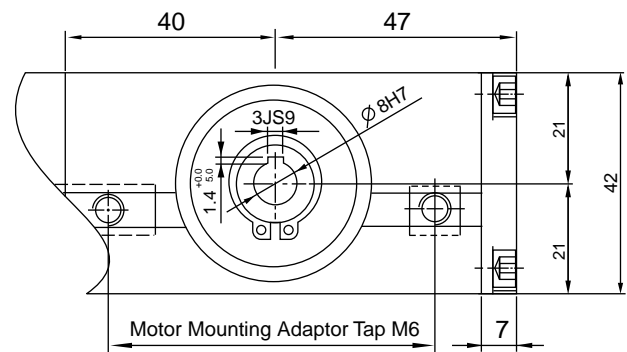
Unit	Repeatability	Positioning ability	Back Lash	Travel
µm	±5	40	10	35

Work Load

Section	Frad (N)	Fax (N)
Static Working Load	1,260	915
Dynamic Working Load	890	720

Stroke in MM	L1 in MM
500 mm	874 mm
600 mm	974 mm
700 mm	1074 mm
800 mm	1174 mm
900 mm	1274 mm
1000 mm	1374 mm
1200 mm	1574 mm
1400 mm	1774 mm
1500 mm	1874 mm
1600 mm	1974 mm
1800 mm	2174 mm
2000 mm	2374 mm
2500 mm	2874 mm
3000 mm	3374 mm
3500 mm	3874 mm
3800 mm	4174 mm

Pulley Box Drawing

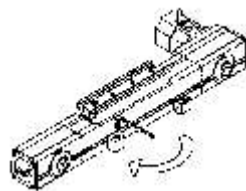


Pulley Specifications

Number of teeth (EA)	Pitch (mm)	Pully Out diameter (mm)	Pich Diameter (mm)	Travel Length / Revolution (mm)
17	5	31	27.06	85.01

Bottom Mounting Method

Mounting tools are offered according to user's request



'L' shape mounting clamp

Dynamic Moment Load

Section	Mx (N • m)	My (N • m)	Mz (N • m)
Static	10.2	15.8	16.1
Dynamic	6.2	8.9	12.0

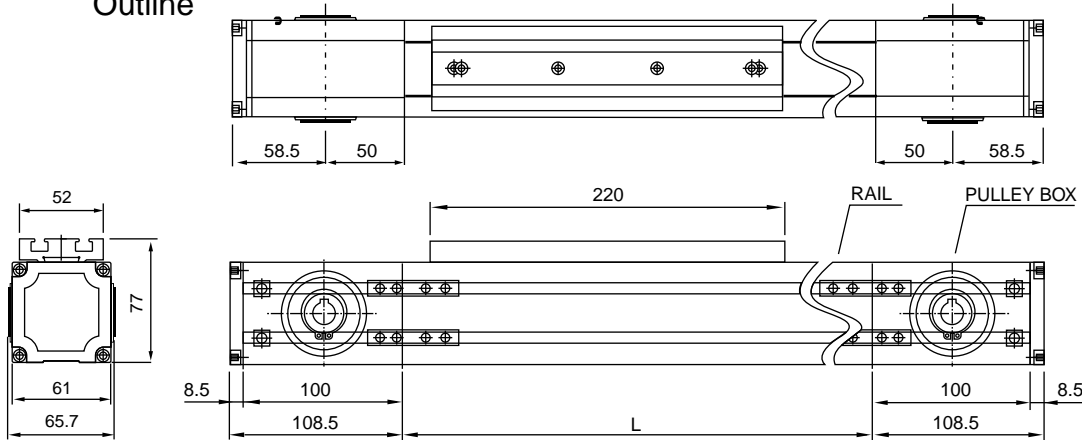
Unloading Driving Torque (N • m)	0.1
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MAXIMA ACTUATOR

**BELT DRIVE ACTUATOR
SERO-61**



Outline



Precision Degree

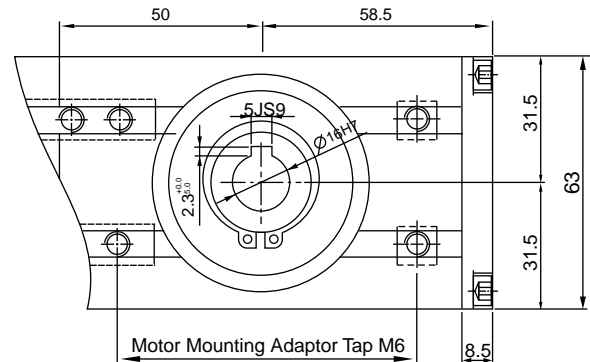
Unit	Repeatability	Positioning ability	Back Lash	Travel
µm	±5	40	10	35

Work Load

Section	Frad (N)	Fax (N)
Static Working Load	1,930	1,485
Dynamic Working Load	1,680	1,100

Stroke in MM	L1 in MM
500 mm	937 mm
600 mm	1037 mm
700 mm	1137 mm
800 mm	1237 mm
900 mm	1337 mm
1000 mm	1437 mm
1200 mm	1637 mm
1400 mm	1837 mm
1500 mm	1937 mm
1600 mm	2037 mm
1800 mm	2237 mm
2000 mm	2437 mm
2500 mm	2937 mm
3000 mm	3437 mm
3500 mm	3937 mm
3800 mm	4237 mm

Pulley Box Drawing

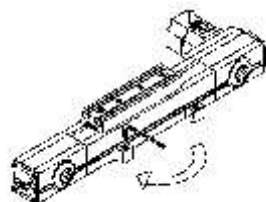


Pulley Specifications

Number of teeth (EA)	Pitch (mm)	Pully Out diameter (mm)	Pich Diameter (mm)	Travel Length / Revolution (mm)
26	5	26	41.38	130.00

Bottom Mounting Method

Mounting tools are offered according to user's request



'L' shape mounting clamp

Dynamic Moment Load

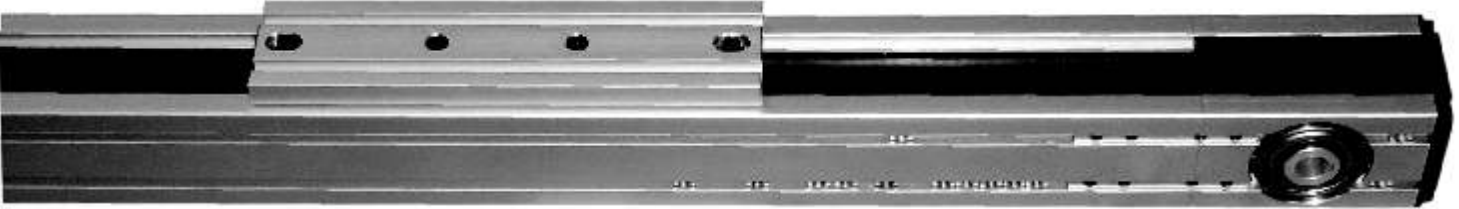
Section	Mx (N • m)	My (N • m)	Mz (N • m)
Static	22.7	30.8	32.4
Dynamic	13.7	17.4	24.1

Unloading Driving Torque (N • m)	0.3
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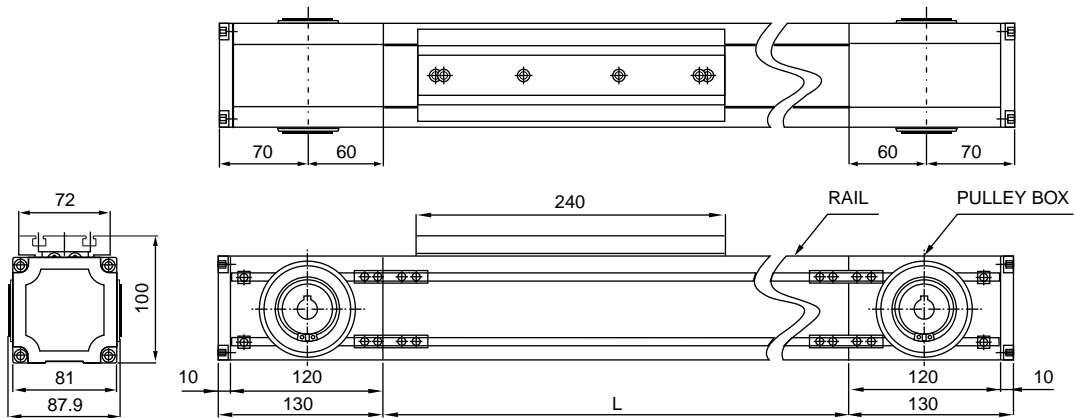
MAXIMA ACTUATOR

BELT DRIVE ACTUATOR

SERO-81



Outline



Precision Degree

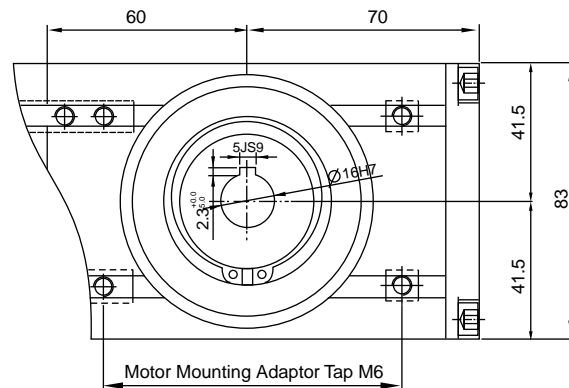
Unit	Repeatability	Positioning ability	Back Lash	Travel
μm	±5	40	10	35

Work Load

Section	Frad (N)	Fax (N)
Static Working Load	3,180	2,430
Dynamic Working Load	2,280	1,780

Stroke in MM	L1 in MM
500 mm	1000 mm
600 mm	1100 mm
700 mm	1200 mm
800 mm	1300 mm
900 mm	1400 mm
1000 mm	1500 mm
1200 mm	1700 mm
1400 mm	1900 mm
1500 mm	2000 mm
1600 mm	2100 mm
1800 mm	2300 mm
2000 mm	2500 mm
2500 mm	3000 mm
3000 mm	3500 mm
3500 mm	4000 mm
3800 mm	4300 mm

Pulley Box Drawing

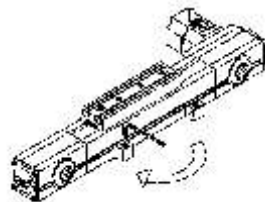


Pulley Specifications

Number of teeth (EA)	Pitch (mm)	Pully Out diameter (mm)	Pich Diameter (mm)	Travel Length / Revolution (mm)
40	5	67	63.66	199.99

Bottom Mounting Method

☞ Mounting tools are offered according to user's request



Direct mounting tap machining

Dynamic Moment Load

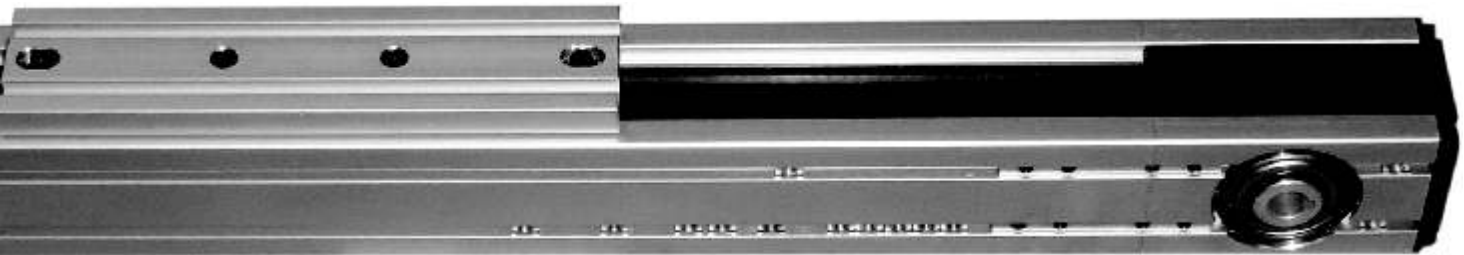
Section	Mx (N • m)	My (N • m)	Mz (N • m)
Static	33.2	64	67.2
Dynamic	18.4	40.9	48.3

Unloading Driving Torque (N • m)	0.5
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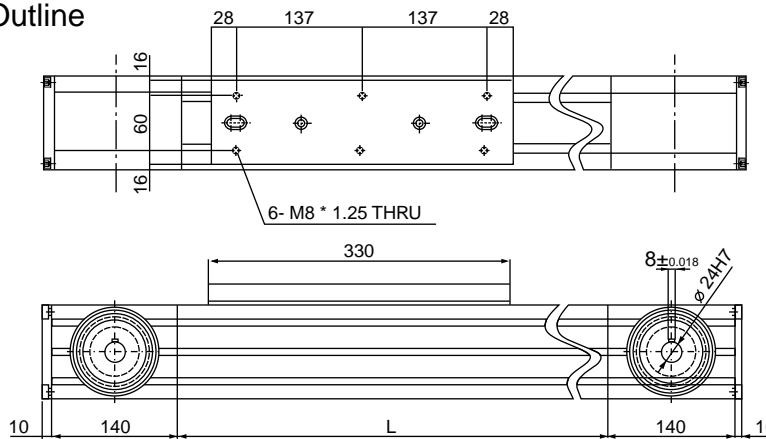
MAXIMA ACTUATOR

BELT DRIVE ACTUATOR

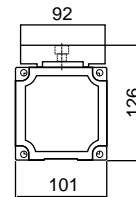
SERO-101



Outline



Pulley Box Drawing



Precision Degree

Unit	Repeatability	Positioning ability	Back Lash	Travel
µm	±5	40	10	35

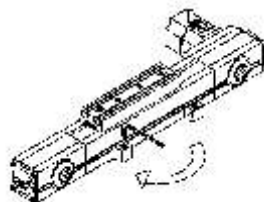
Work Load

Section	Frad (N)	Fax (N)
Static Working Load	4,452	3,645
Dynamic Working Load	3,120	3,000

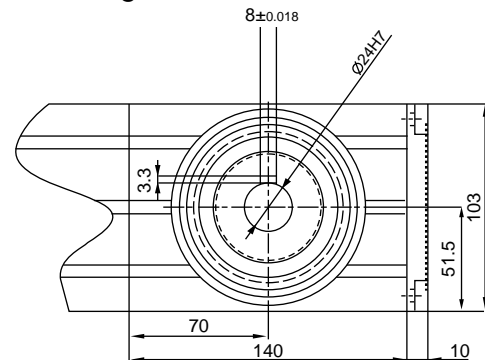
Stroke in MM	L1 in MM
500 mm	1130 mm
600 mm	1230 mm
700 mm	1330 mm
800 mm	1430 mm
900 mm	1530 mm
1000 mm	1630 mm
1200 mm	1830 mm
1400 mm	2030 mm
1500 mm	2130 mm
1600 mm	2230 mm
1800 mm	2430 mm
2000 mm	2630 mm
2500 mm	3130 mm
3000 mm	3630 mm
3500 mm	4130 mm
3800 mm	4430 mm

Bottom Mounting Method

- Mounting tools are offered according to user's request



Direct mounting tap machining



Pulley Specifications

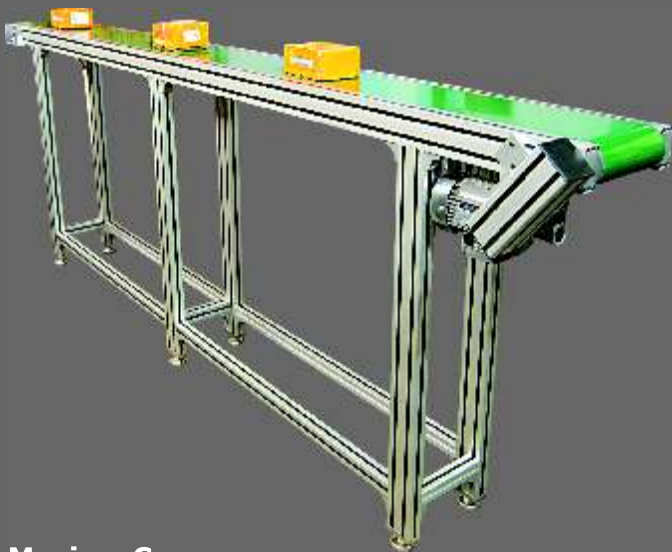
Number of teeth (EA)	Pitch (mm)	Pully Out diameter (mm)	Pich Diameter (mm)	Travel Length / Revolution (mm)
30	8	82	76.39	239.99

Dynamic moment laod

Section	Mx (N • m)	My (N • m)	Mz (N • m)
Static	76.8	115.2	118.656
Dynamic	33.4	73.6	86.8
Unloading Driving Torque (N • m)			1

SOLUTIONS FOR INDUSTRIAL AUTOMATION

- Linear Guides
- Ball Screw & Lead Screw
- Ball Screw Support Unit
- Coupling
- Linear Motion Bearing
- Shafts (Hardened & Ground)
- Pillow Block Bearing Unit
- Precision Lock Nut & Power Lock
- Timing Belt & Pulley
- Actuators, X-Y Tables
- Maxima Work Table & Conveyor
- Stepper Motors, Drivers
- AC Servo Motors & Drive
- Motion & Controllers
- Rotary Indexing Tables
- Cable Drag Chain (Robochain)
- Aluminium Profile & Accessories
- Leveling Foot Mount & Autocaster



Maxima Conveyor



Maxima Work Table