

New lineup for MEGA TORQUE series



# MITSUBISHI

®



High-Accuracy Positioning Timing Belt

**NEW**

## MegaTorque EX

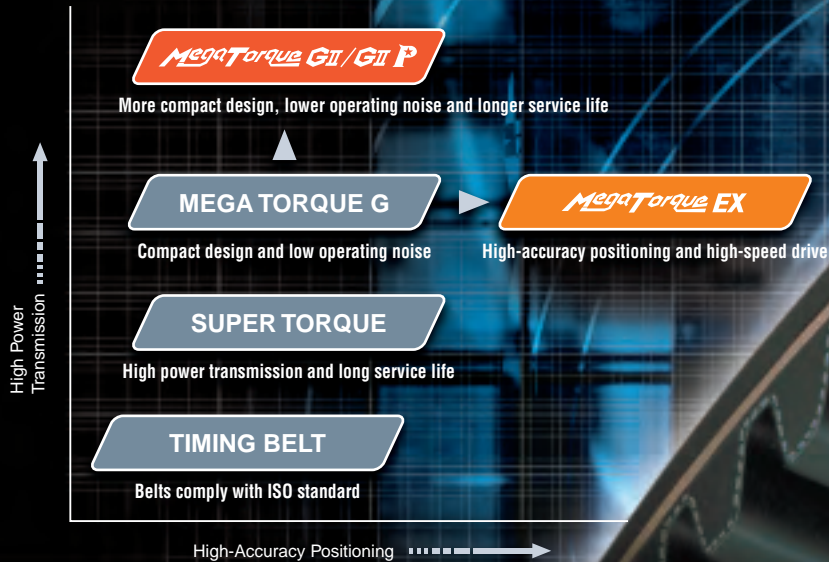
High Torque Timing Belt

**NEW**

## MegaTorque GII / GII P



# CONCEPT



# Newly-Evolved MEGA TORQUE!!!

## MegaTorque GII/GII P



- ▶ To improve positioning accuracy
- ▶ Utilization with quick acceleration, slowdown and high-speed drive
- ▶ To improve efficiency of system by increasing the weight of conveying goods
- ▶ To reduce the cost of using ball screws and linear motors

Application ● Semiconductors / LC manufacturing facilities ● Industrial robots ● Actuators etc.



- ▶ To narrow the width of belts and pulleys
- ▶ To reduce the operating noise
- ▶ To reduce the frequency of maintenance

Application ● Injection molding machines ● Machine tools ● Press machines etc.

### Product lineup

Belt type	SUPER TORQUE	MEGA TORQUE G	MegaTorque EX	MegaTorque GII	MegaTorque GII P
(MT)S3M	○		○		
(MT)S5M	○	○	○		
(MT)S8M	○	○		○	
(MT)S14M	○	○			○

※Please see our catalog "Industrial Power Transmission Belts" for the details of Safety Precautions.

# MegaTorque EX

## ● High Jumping Torque

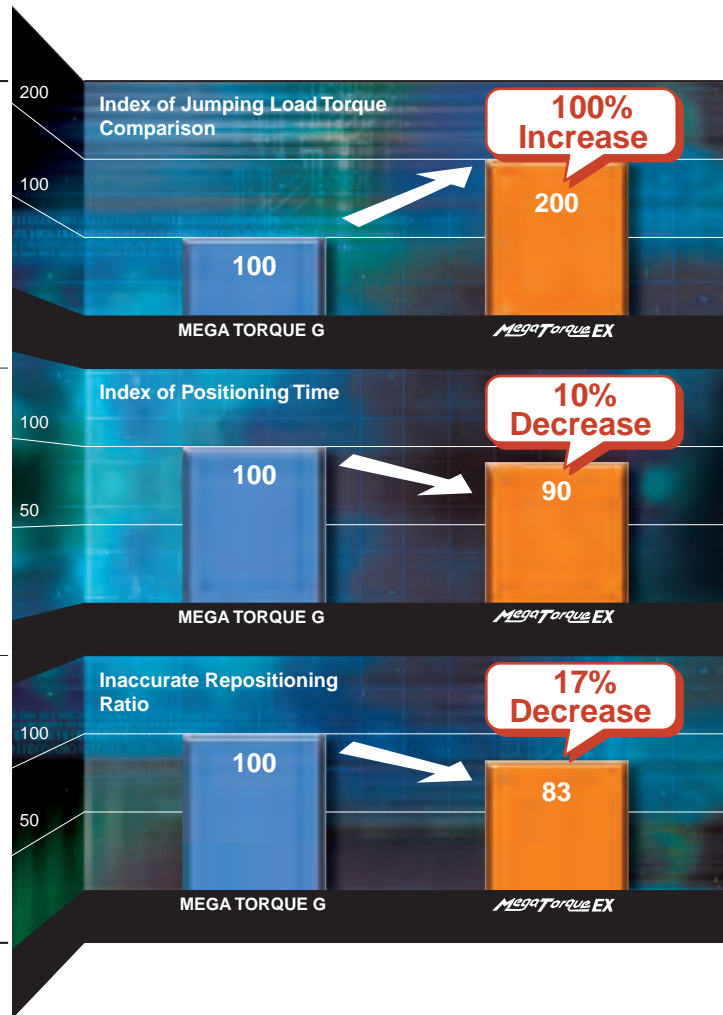
Adopting an ultrahigh-modulus special cord, it has a high jumping torque and prevents tooth jumping at quick acceleration and slowdown.

## ● High-damping Property

Adopting an ultrahigh-modulus special cord, it has a high-damping torque and reduces the convergence time of belt vibration. Thus, also reducing positioning time.

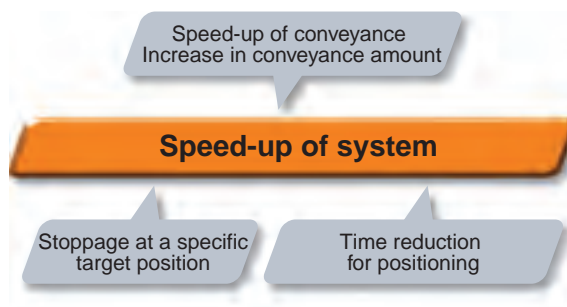
## ● High Positioning Repeatability

With its small belt elongation and use of an anti backlash special pulley, positioning accuracy and positioning repeatability are significantly improved. ※ A special pulley required.

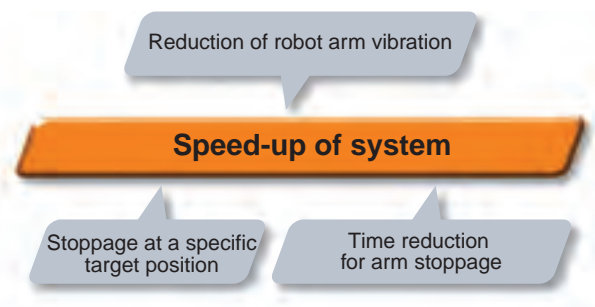


### THE BEST APPLICATION AND EFFECTS

#### Linear drive application

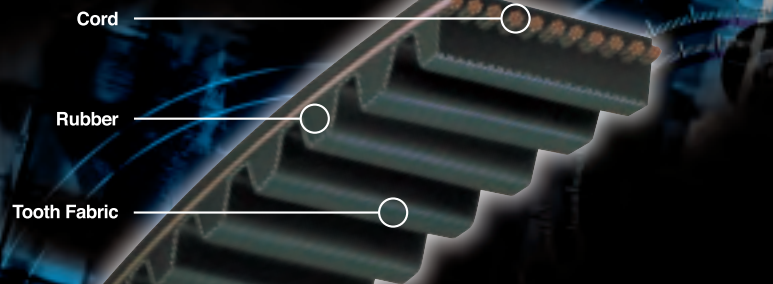


#### Robot arm



### Construction Material

Rubber	High Hardness Compound Rubber (H-NBR)
Cord	High Modulus Carbon Fiber
Tooth Fabric	Advanced abrasion-resistant nylon fabric
Pulley tooth profile	Anti backlash special pulley profile



# MegaTorque GII/GII P

## ● High Power Transmission Capacity

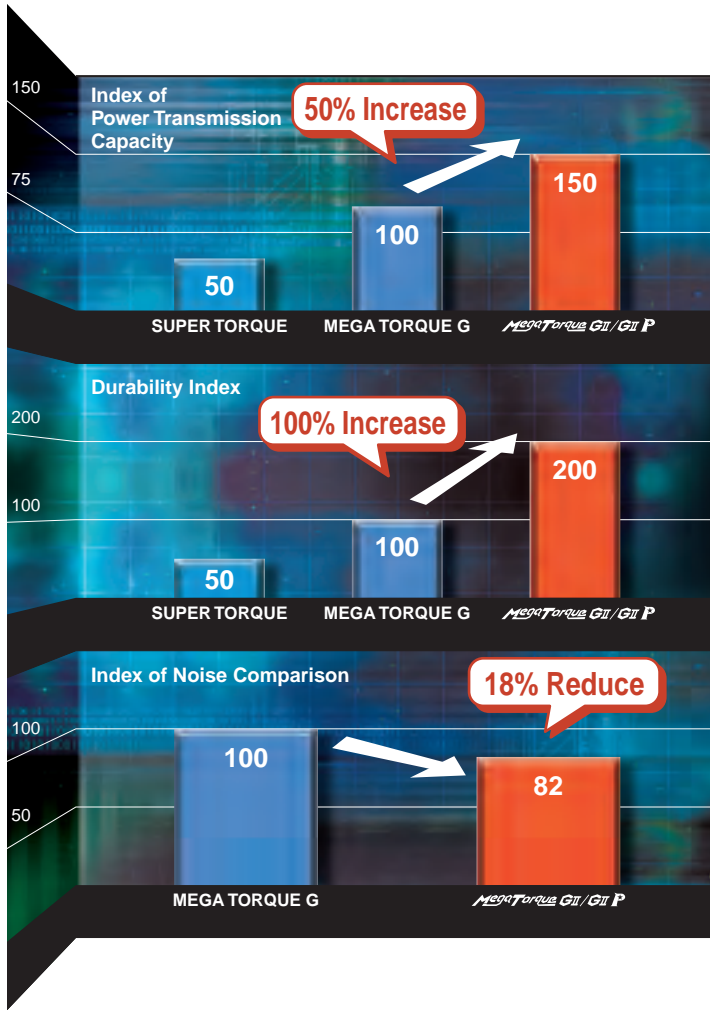
New material for cord reduces belt elongation, thus allowing high-load transmission. Since the power transmission capacity increases 50% compared to MEGA TORQUE G, it allows a compact design.

## ● Long Service Life

By using abrasion resistant and low friction processed fabric, durability under high-load condition has been improved. Therefore, use of *MegaTorque GII/GII P*, which has twice as much durability as MEGA TORQUE G, reduces the replacement frequency.

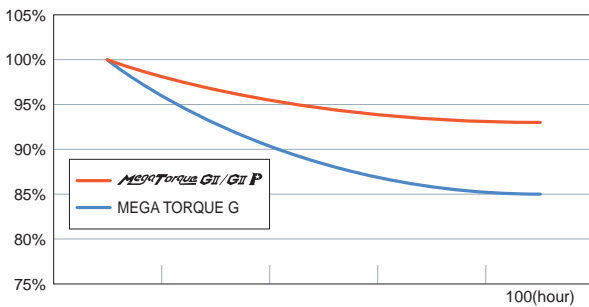
## ● Low Operating Noise

It reduces the operating noise about 18% when tested under the same condition by narrowing the belt width, using a special pulley and increasing the power transmission capacity.  
※ A special pulley required.

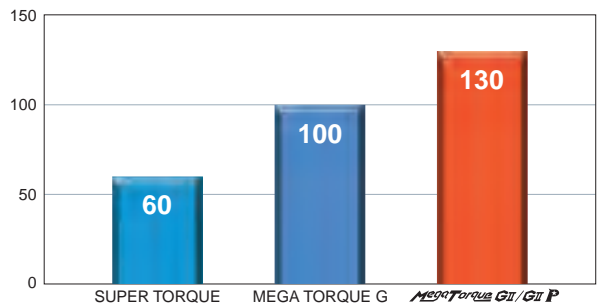


## DATA

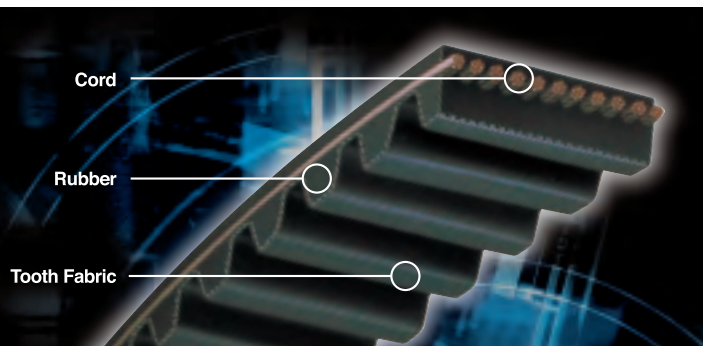
### Index of Decrease of Tension



### Index of Jumping Torque



Construction Material		
	MegaTorque GII	MegaTorque GII P
Tooth Profile	MTS8M	MTS14M
Rubber	High hardness synthetic rubber	
Cord	High modulus carbon fiber	
Tooth Fabric	Advanced abrasion-resistant nylon	Advanced abrasion-resistant Bare-Back nylon
Pulley tooth profile	Special pulley profile	



**MegaTorque EX**

**Product code**

**100** **MT** **S5M** **600** **EX**  
 Belt Width (mm x 10) MEGA TORQUE Belt Type Belt Length (mm) EX Specification

**Pulley Code**

**EX** **24** **MT** **S5M** **0250** **-A**  
 EX Specification Number of Pulley Teeth MEGA TORQUE Belt Type Pulley Width Code (Belt With (mm) x10) Pulley Type

※Pulley for MEGA TORQUE EX is made to order.

**MTS3M (3mm pitch)**

Belt Width Code	60	100	150
Belt Width (mm)	6	10	15
Product Code	Number of Teeth	Product Code	Number of Teeth
MTS3M 171 EX	57	MTS3M 570 EX	190
MTS3M 240 EX	80	MTS3M 600 EX	200
MTS3M 270 EX	90	MTS3M 660 EX	220
MTS3M 300 EX	100	MTS3M 720 EX	240
MTS3M 324 EX	108	MTS3M 780 EX	260
MTS3M 330 EX	110	MTS3M 918 EX	306
MTS3M 360 EX	120	MTS3M 1035 EX	345
MTS3M 390 EX	130	MTS3M 1080 EX	360
MTS3M 420 EX	140	MTS3M 1305 EX	435
MTS3M 450 EX	150	MTS3M 1521 EX	507
MTS3M 480 EX	160	MTS3M 1788 EX	596
MTS3M 510 EX	170	MTS3M 2538 EX	846
MTS3M 540 EX	180		

**MTS5M (5mm pitch)**

Belt Width Code	100	150	250
Belt Width (mm)	10	15	25
Product Code	Number of Teeth	Product Code	Number of Teeth
MTS5M 275 EX	55	MTS5M 690 EX	138
MTS5M 300 EX	60	MTS5M 700 EX	140
MTS5M 325 EX	65	MTS5M 720 EX	144
MTS5M 350 EX	70	MTS5M 750 EX	150
MTS5M 400 EX	80	MTS5M 800 EX	160
MTS5M 435 EX	87	MTS5M 850 EX	170
MTS5M 450 EX	90	MTS5M 880 EX	176
MTS5M 500 EX	100	MTS5M 900 EX	180
MTS5M 525 EX	105	MTS5M 950 EX	190
MTS5M 550 EX	110	MTS5M 1000 EX	200
MTS5M 575 EX	115	MTS5M 1780 EX	356
MTS5M 600 EX	120	MTS5M 3835 EX	767
MTS5M 650 EX	130		

**MegaTorque GII/GII P**

**Product code**

**250** **MT** **S8M** **1680** **G2**  
 Belt Width (mm x 10) MEGA TORQUE Belt Type Belt Length (mm) G2 Specification

**600** **MT** **S14M** **2100** **G2P**  
 Belt Width (mm x 10) MEGA TORQUE Belt Type Belt Length (mm) G2P Specification

**Pulley Code**

**G2** **24** **MT** **S8M** **0600** **-A**  
 G2 Specification Number of Pulley Teeth MEGA TORQUE Belt Type Pulley Width Code (Belt With (mm) x10) Pulley Type

**G2P** **40** **MT** **S14M** **0600** **-A**  
 G2P Specification Number of Pulley Teeth MEGA TORQUE Belt Type Pulley Width Code (Belt With (mm) x10) Pulley Type

※Pulley for MEGA TORQUE G II/G II P is made to order.

**MTS8M (8mm pitch)**

Belt Width Code	150	250	300	400	600
Belt Width (mm)	15	25	30	40	60
Product Code	Number of Teeth	Product Code	Number of Teeth	Product Code	Number of Teeth
MTS8M 528 G2	66	MTS8M 1216 G2	152	MTS8M 2104 G2	263
MTS8M 560 G2	70	MTS8M 1224 G2	153	MTS8M 2120 G2	265
MTS8M 584 G2	73	MTS8M 1248 G2	156	MTS8M 2160 G2	270
MTS8M 600 G2	75	MTS8M 1256 G2	157	MTS8M 2240 G2	280
MTS8M 632 G2	79	MTS8M 1280 G2	160	MTS8M 2272 G2	284
MTS8M 640 G2	80	MTS8M 1296 G2	162	MTS8M 2304 G2	288
MTS8M 656 G2	82	MTS8M 1304 G2	163	MTS8M 2376 G2	297
MTS8M 712 G2	89	MTS8M 1312 G2	164	MTS8M 2400 G2	300
MTS8M 720 G2	90	MTS8M 1320 G2	165	MTS8M 2496 G2	312
MTS8M 760 G2	95	MTS8M 1352 G2	169	MTS8M 2600 G2	325
MTS8M 800 G2	100	MTS8M 1360 G2	170	MTS8M 2800 G2	350
MTS8M 824 G2	103	MTS8M 1384 G2	173	MTS8M 2920 G2	365
MTS8M 840 G2	105	MTS8M 1400 G2	175		
MTS8M 848 G2	106	MTS8M 1424 G2	178		
MTS8M 856 G2	107	MTS8M 1440 G2	180		
MTS8M 880 G2	110	MTS8M 1480 G2	185		
MTS8M 896 G2	112	MTS8M 1488 G2	186		
MTS8M 912 G2	114	MTS8M 1520 G2	190		
MTS8M 920 G2	115	MTS8M 1552 G2	194		
MTS8M 928 G2	116	MTS8M 1600 G2	200		
MTS8M 944 G2	118	MTS8M 1640 G2	205		
MTS8M 952 G2	119	MTS8M 1648 G2	206		
MTS8M 960 G2	120	MTS8M 1680 G2	210		
MTS8M 976 G2	122	MTS8M 1696 G2	212		
MTS8M 984 G2	123	MTS8M 1728 G2	216		
MTS8M 1000 G2	125	MTS8M 1760 G2	220		
MTS8M 1024 G2	128	MTS8M 1776 G2	222		
MTS8M 1040 G2	130	MTS8M 1792 G2	224		
MTS8M 1056 G2	132	MTS8M 1800 G2	225		
MTS8M 1080 G2	135	MTS8M 1816 G2	227		
MTS8M 1096 G2	137	MTS8M 1832 G2	229		
MTS8M 1120 G2	140	MTS8M 1880 G2	235		
MTS8M 1128 G2	141	MTS8M 1912 G2	239		
MTS8M 1136 G2	142	MTS8M 1960 G2	245		
MTS8M 1152 G2	144	MTS8M 2000 G2	250		
MTS8M 1160 G2	145	MTS8M 2040 G2	255		
MTS8M 1184 G2	148	MTS8M 2048 G2	256		
MTS8M 1200 G2	150	MTS8M 2064 G2	258		

Product Code	Number of Teeth	Product Code	Number of Teeth
MTS8M 2104 G2	263	MTS8M 2944 G2	368
MTS8M 2120 G2	265	MTS8M 3048 G2	381
MTS8M 2160 G2	270	MTS8M 3200 G2	400
MTS8M 2240 G2	280	MTS8M 3248 G2	406
MTS8M 2272 G2	284	MTS8M 3272 G2	409
MTS8M 2304 G2	288	MTS8M 3440 G2	430
MTS8M 2376 G2	297	MTS8M 3680 G2	460
MTS8M 2400 G2	300	MTS8M 3720 G2	465
MTS8M 2496 G2	312	MTS8M 3904 G2	488
MTS8M 2600 G2	325	MTS8M 3928 G2	491
MTS8M 2800 G2	350	MTS8M 4400 G2	550
MTS8M 2920 G2	365		

**MTS14M (14mm pitch)**

Belt Width Code	400	600	800	1000	1200
Belt Width (mm)	40	60	80	100	120
Product Code	Number of Teeth	Product Code	Number of Teeth	Product Code	Number of Teeth
MTS14M 1008 G2P	72	MTS14M 2100 G2P	150		
MTS14M 1120 G2P	80	MTS14M 2198 G2P	157		
MTS14M 1190 G2P	85	MTS14M 2240 G2P	160		
MTS14M 1246 G2P	89	MTS14M 2310 G2P	165		
MTS14M 1288 G2P	92	MTS14M 2380 G2P	170		
MTS14M 1400 G2P	100	MTS14M 2450 G2P	175		
MTS14M 1470 G2P	105	MTS14M 2506 G2P	179		
MTS14M 1540 G2P	110	MTS14M 2590 G2P	185		
MTS14M 1610 G2P	115	MTS14M 2660 G2P	190		
MTS14M 1652 G2P	118	MTS14M 2800 G2P	200		
MTS14M 1708 G2P	122	MTS14M 2940 G2P	210		
MTS14M 1736 G2P	124	MTS14M 3150 G2P	225		
MTS14M 1750 G2P	125	MTS14M 3360 G2P	240		
MTS14M 1778 G2P	127	MTS14M 3500 G2P	250		
MTS14M 1806 G2P	129	MTS14M 3556 G2P	254		
MTS14M 1890 G2P	135	MTS14M 3850 G2P	275		
MTS14M 1932 G2P	138	MTS14M 4004 G2P	286		
MTS14M 1960 G2P	140	MTS14M 4508 G2P	322		
MTS14M 2002 G2P	143	MTS14M 5012 G2P	358		

\*MEGA TORQUE EX and MEGA TORQUE GII/GIIP require special pulleys, NOT compatible with the pulleys for other types of timing belts.

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