



**MITSUBOSHI**

# RENEWABLE ENERGY

## GIGA TORQUE GX & MEGA TORQUE EP

Power transmission belts created for the unwavering demands of the renewable energy sector.





Premium timing belt for quiet, space-saving, and sustainability.

# Giga Torque GX

## Supreme Belt Technology

- ▲ **Carbon Fiber Cord:** Unmatched in strength and lightness, allowing for sleek, space-efficient designs.
- ▲ **Weight Minimization:** Reduces stress on bearings and shafts, optimizing system performance.

## Extended Lifespan

- ▲ **Engineered for Durability:** Superior materials and design ensure longevity with minimal maintenance.
- ▲ **Reduced Downtime:** Less maintenance needed for sustained clean energy production.
- ▲ **Waste Reduction:** Durable construction minimizes replacements, reducing waste.

## Quiet Operation

- ▲ **Noise Reduction:** Low-friction coating minimizes noise, ideal for noise-sensitive environments.
- ▲ **Peace of Mind:** Quiet operation for various applications.

### CONSTRUCTION

Rubber	H-NBR
Cord	Carbon fiber
Tooth Fabric	Nylon/fluorine fiber

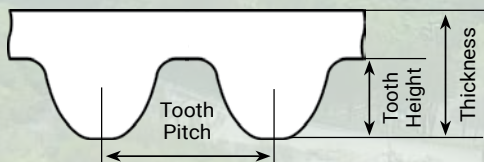
### CHARACTERISTICS

Temperature range	-4°F – 212°F
Max. belt speed	30 m/s
Electric conductive	No

### MEASUREMENTS (in millimeters)

Type	Tooth	Thickness	Pitch
G8M	3.50	5.60	8.00
G14M	6.10	9.80	14.00

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# Powering THE Future

At the heart of the global shift towards clean energy, timing belts silently orchestrate the smooth operation of wind turbine generators, geothermal fan fans, solar panel tracker drives, biomass fuel handling equipment, and more.

Mitsuboshi's **Giga Torque GX** and **Mega Torque EP** belts ensure precise timing and coordination, minimizing energy losses and maximizing output.

Their robust construction and minimal maintenance requirements translate to reduced downtime and costs, making them the reliable workhorses of clean energy.







### Strength & Dependability

Giga Torque GX and Mega Torque EP timing belts are built to endure harsh conditions like extreme temperatures, dust, and moisture. Their robust design leads to long lifespans, reducing maintenance costs and downtime for renewable energy systems.



### Compact & Lightweight

Many renewable energy systems need compact equipment due to space or weight constraints. Mitsubishi Giga Torque GX and Mega Torque EP timing belts have a smaller footprint and are lighter than chain drives, making them ideal for such applications.



### Smooth & Quiet Operation

Unlike chain drives, Mitsubishi Giga Torque GX and Mega Torque EP timing belts operate quietly with minimal vibration, helping to reduce noise pollution in wind farms and other sensitive environments. This is especially crucial for wind farms located near residential areas or wildlife habitats.



### Versatility & Adaptability

Mitsubishi Giga Torque GX and Mega Torque EP timing belts come in a range of sizes, materials, and tooth profiles, making them adaptable to diverse applications in renewable energy systems. They are suitable for use in wind turbines, solar trackers, hydroelectric plants, and biomass facilities.

Durable timing belt for raw power and shock resistance.

# MegaTorque EP



## Optimal Power Transmission

- ▲ **High torque handling:** EPDM rubber and versatile GP tooth profile for efficient, smooth power transfer.
- ▲ **Reduced skipping:** High jumping torque prevents belt jumps during sudden changes in speed.

## Superior Durability

- ▲ **Abrasion-resistant fabric:** Withstands harsh environments and extended use.
- ▲ **Durable construction:** Robust materials and design for longer lifespan, minimizing maintenance.

## Reliable Performance

- ▲ **Versatile:** GP profile suitable for H, GT,<sup>™</sup> and R pulleys.
- ▲ **Cost-effective:** Durable lifespan offsets initial investment with lower maintenance costs.
- ▲ **Reliable:** Consistent performance under demanding conditions.

## CONSTRUCTION

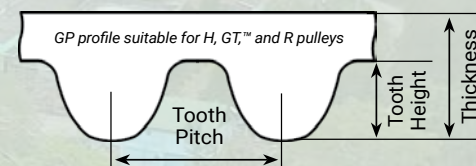
Rubber	EPDM
Cord	Glass
Tooth Fabric	Special treated nylon

## CHARACTERISTICS

Temperature range	-40°F – 248°F
Max. belt speed	30 m/s
Electric conductive	Yes

## MEASUREMENTS (in millimeters)

Type	Tooth	Thickness	Pitch
GP8M	3.35	5.60	8.00
GP14M	6.10	10.30	14.00



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# Standard Belt Sizes & Product Codes

## GigaTorque GX

### Product Code

**370** **G14M** **2100** **GX**

Nominal Width  
(mm x 10)

Tooth  
Profile

Belt Length  
(mm)

GX  
Spec.

### G8M

Widths	12	21	36	62
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Profile	Length	No. of Teeth
G8M	640	80
G8M	720	90
G8M	800	100
G8M	880	110
G8M	896	112
G8M	960	120
G8M	1000	125
G8M	1024	128
G8M	1040	130
G8M	1056	132
G8M	1096	137
G8M	1120	140
G8M	1200	150
G8M	1224	153
G8M	1280	160
G8M	1400	175
G8M	1440	180
G8M	1600	200
G8M	1672	209
G8M	1760	220
G8M	1792	224
G8M	1800	225
G8M	1912	239
G8M	2000	250
G8M	2104	263
G8M	2200	275
G8M	2240	280
G8M	2400	300
G8M	2520	315
G8M	2600	325
G8M	2800	350
G8M	2840	355
G8M	3048	381
G8M	3200	400
G8M	3280	410
G8M	3600	450
G8M	4000	500
G8M	4400	550
G8M	4480	560

### G14M

Widths	20	37	68	90	125
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Profile	Length	No. of Teeth
G14M	966	69
G14M	994	71
G14M	1120	80
G14M	1190	85
G14M	1260	90
G14M	1302	93
G14M	1344	96
G14M	1400	100
G14M	1568	112
G14M	1610	115
G14M	1750	125
G14M	1778	127
G14M	1890	135
G14M	1960	140
G14M	2002	143
G14M	2100	150
G14M	2240	160
G14M	2310	165
G14M	2380	170
G14M	2450	175
G14M	2520	180
G14M	2590	185
G14M	2660	190
G14M	2730	195
G14M	2800	200
G14M	3136	224
G14M	3150	225
G14M	3304	236
G14M	3360	240
G14M	3500	250
G14M	3850	275
G14M	3920	280
G14M	4144	296
G14M	4326	309
G14M	4410	315
G14M	4578	327
G14M	4956	354

## MegaTorque EP

### Product Code

**1512** **GP8M** **20**

Belt Length  
(mm)

Tooth  
Profile

Belt Width  
(mm)

### GP8M

Widths	20	30	50	85
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Length	Profile	No. of Teeth
560	GP8M	70
576	GP8M	72
600	GP8M	75
640	GP8M	80
720	GP8M	90
800	GP8M	100
840	GP8M	105
880	GP8M	110
920	GP8M	115
960	GP8M	120
1040	GP8M	130
1064	GP8M	133
1104	GP8M	138
1120	GP8M	140
1160	GP8M	145
1224	GP8M	153
1200	GP8M	150
1280	GP8M	160
1440	GP8M	180
1512	GP8M	189
1584	GP8M	198
1600	GP8M	200
1760	GP8M	220
1800	GP8M	225
2000	GP8M	250
2200	GP8M	275
2400	GP8M	300
2600	GP8M	325
2800	GP8M	350
3048	GP8M	381
3280	GP8M	410
3600	GP8M	450
4400	GP8M	550

### GP14M

Widths	40	55	85	115
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Length	Profile	No. of Teeth
966	GP14M	69
994	GP14M	71
1120	GP14M	80
1190	GP14M	85
1260	GP14M	90
1302	GP14M	93
1344	GP14M	96
1400	GP14M	100
1568	GP14M	112
1610	GP14M	115
1750	GP14M	125
1778	GP14M	127
1890	GP14M	135
1960	GP14M	140
2002	GP14M	143
2100	GP14M	150
2240	GP14M	160
2310	GP14M	165
2380	GP14M	170
2450	GP14M	175
2520	GP14M	180
2590	GP14M	185
2660	GP14M	190
2730	GP14M	195
2800	GP14M	200
3136	GP14M	224
3150	GP14M	225
3304	GP14M	236
3360	GP14M	240
3500	GP14M	250
3850	GP14M	275
3920	GP14M	280
4144	GP14M	296
4326	GP14M	309
4410	GP14M	315
4578	GP14M	327
4956	GP14M	354

GP profile suitable for H, GT,<sup>™</sup> and R pulleys



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