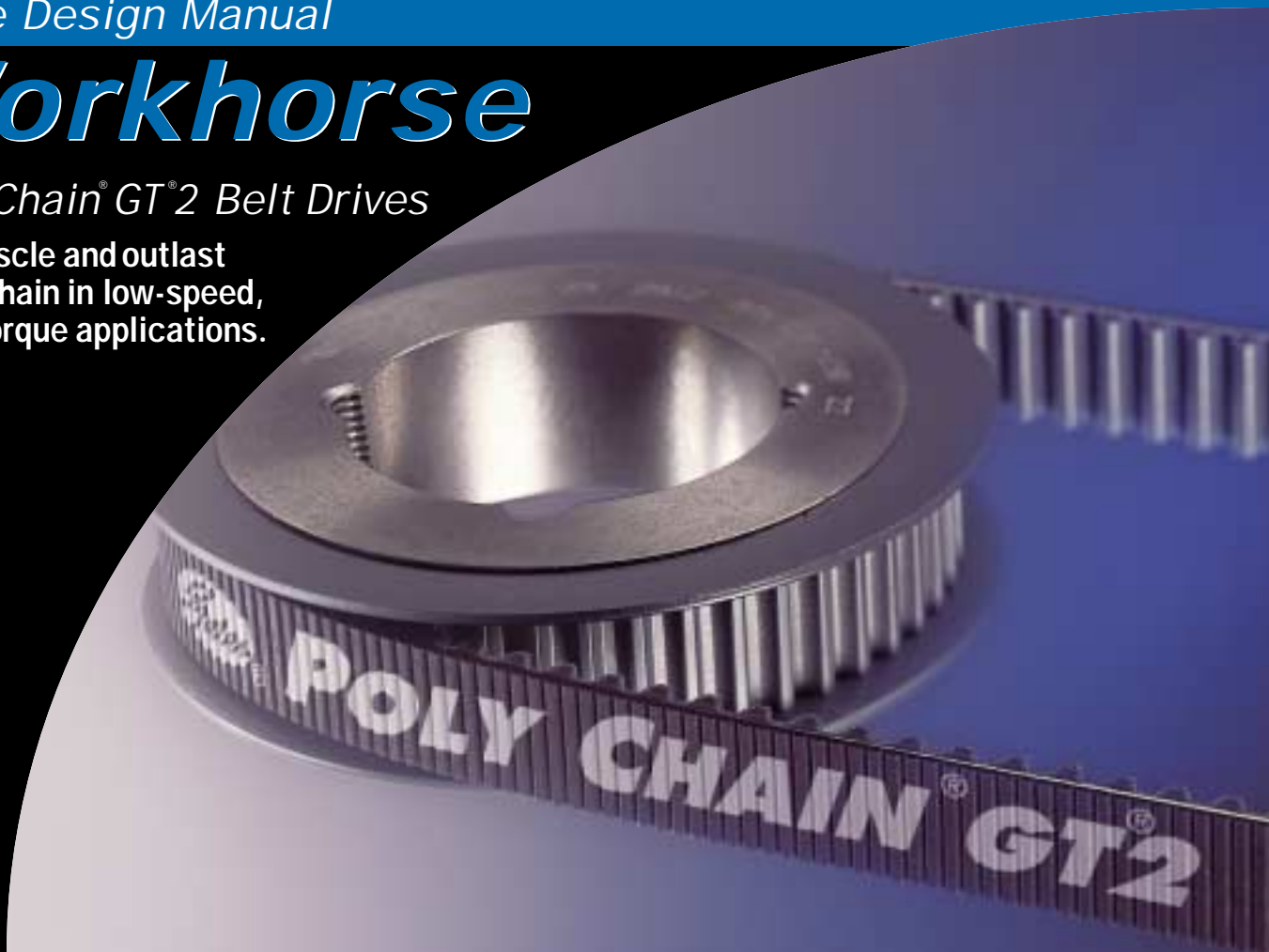


Drive Design Manual

# Workhorse

Poly Chain® GT<sup>2</sup> Belt Drives

Outmuscle and outlast  
roller chain in low-speed,  
high-torque applications.



THE DRIVING FORCE IN POWER TRANSMISSION



# Low speed. High speed. And any speed in between. Gates has your total synchronous belt drive system solution!

Synchronous belt drives are being used more extensively than ever for the transfer of power from one shaft to another, multiplication of torque, speed reduction or increase, and synchronization of shaft operations.

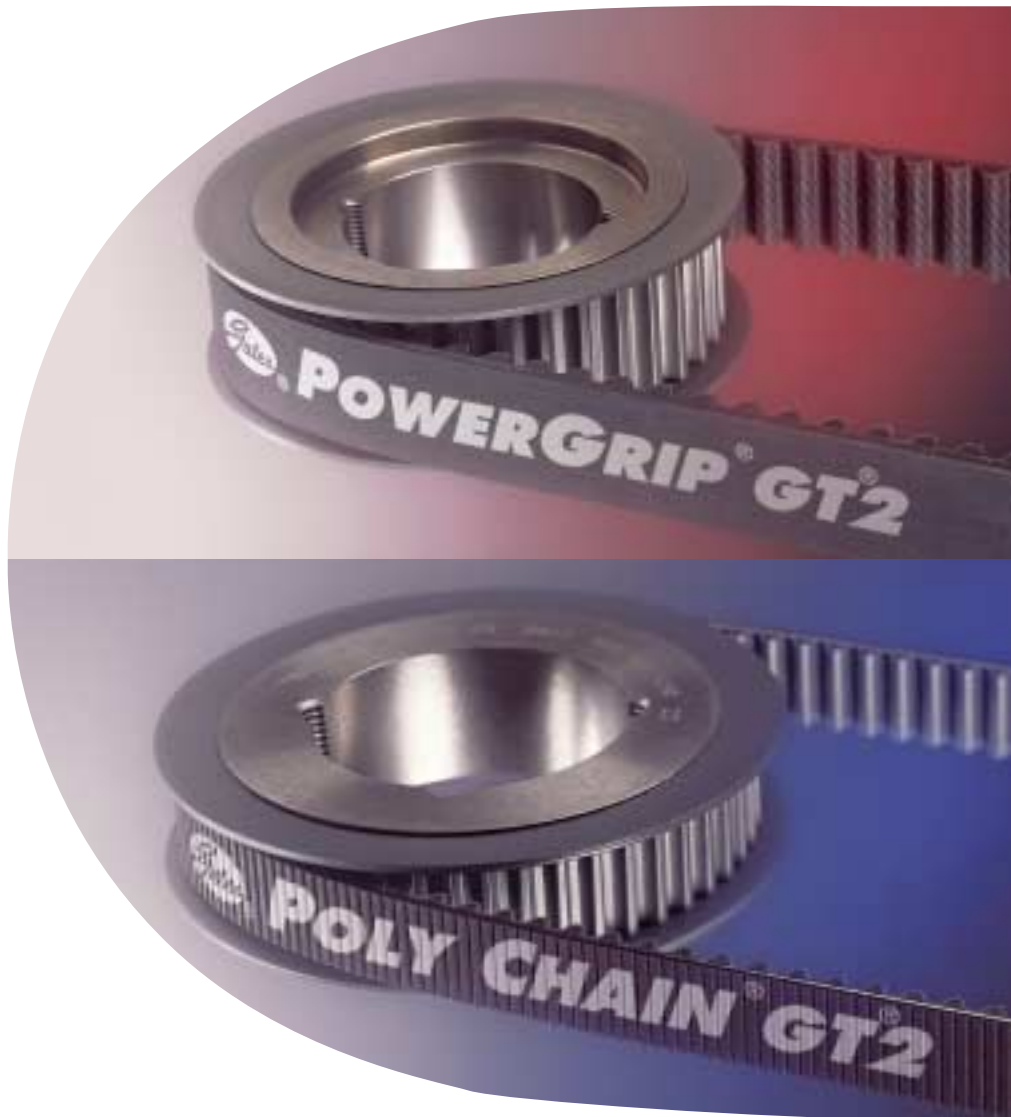
Gates, the world's recognized leader in synchronous belt technology, continues to meet all your needs for synchronous belts, sprockets and bushings across the broadest range of industry applications. Choose from a full line of quality products featuring leading-edge technologies that deliver the advantages you're looking for:

- **Reduced downtime**
- **Reduced over-all drive cost**
- **Reduced drive package size**
- **Increased component life**
- **Increased performance**
- **Energy savings**
- **Reduced acquisition costs**
- **Reduced transaction costs**
- **Increased drive design options**

New, improved synchronous belt lines. The latest innovations in Gates synchronous drive systems are two redesigned and reengineered belt and sprocket lines. They are the clear winners in overall cost, drive selection options and performance when compared to any other belt drive products on the market today.

## PowerGrip® GT<sup>2</sup>

**The Racehorse.** This is the performance choice for a wide variety of high-speed (above 500 rpm) drive applications. PowerGrip GT2 will deliver more power at a lower overall cost than any other rubber synchronous belt drive system available.



## Poly Chain® GT<sup>2</sup>

**The Workhorse.** This is the optimal choice in meeting your needs for low-speed (below 500 rpm), high-torque drive applications. The powerful Poly Chain GT2 polyurethane belt drive system will outperform roller chain drives and any rubber belt drive system on the market today, delivering the lowest-cost belt drive system available for low-speed, high-torque applications.

*And we can prove it!*



Taper-Lock® sprockets & bushings. Poly Chain GT2 and PowerGrip GT2 belt drive systems feature Taper-Lock bushings. Advantages of the Taper-Lock system include:



- Industry-proven robustness
- True running, concentric
- Extensive use in roller chain sprockets
- Easy installation and removal
- Allows compact sprocket hub designs
- Short length-thru-bore dimensions
- Flush mount with no protruding hubs
- Installs with less axial sprocket movement than other bushing systems

Made-to-order sprockets. Gates Made-to-Order (MTO) Metal Department supports synchronous MTO sprockets with 90% of Requests For Quote (RFQ) provided within 48 hours and 84% of quotes provided within 24 hours. Quoted delivery dates are met at a 97% rate and most deliveries are made within four weeks. Call 800-709-6001 for more information.

Gates Compass® CD-ROM: selection, maintenance, and design tool. The Gates Compass CD-ROM is a powerful tool offering a variety of useful information and features. It makes choosing the right drive system fast and easy. Compass contains *Design Flex™ II*, *Design View™* and *Design OHL™* for invaluable assistance in product selection, drive design, energy savings calculations, installation and system cost savings. The CD also contains eight instructional videos covering topics such as belt drive

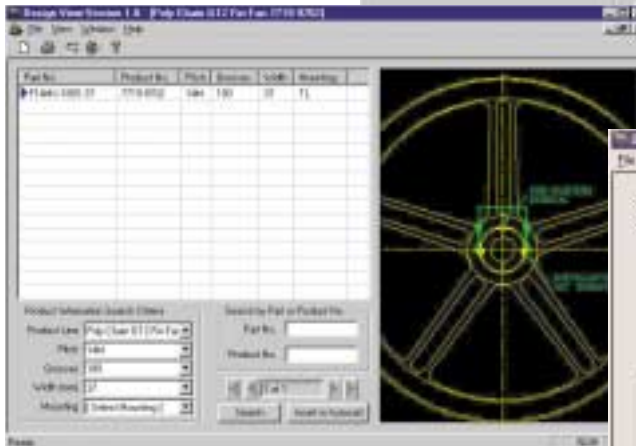
troubleshooting, tensioning, safety and installation. The Compass CD-ROM is available through authorized Gates Industrial Power Transmission Distributors.

A partnership commitment. To ensure that you get the synchronous drive systems that are right for your applications, Gates provides the industry's leading support program and the largest distributor network. You get local inventory availability and a single source for all your needs. You also get access to Gates Product Application Engineering Support for unmatched design and problem-solving expertise in every aspect of synchronous drive operation. You're backed by the industry's largest manufacturer's field sales force, voted number one in a recent *Selling Power* magazine survey. Your Gates representatives are experts in the products they market and provide a variety of in-house and on-site training programs. Nobody is as committed to supporting you as Gates!

It's obvious! Gates is your total synchronous drive solution. With industry-leading technologies, a complete line of high quality, top-performing products, and unmatched customer support, it's easy to see that Gates is the partner to choose in meeting all your needs for synchronous belt drive systems.



▲ Design Flex II™



▲ Design View™



Design OHL™ ▶

# Poly Chain GT2

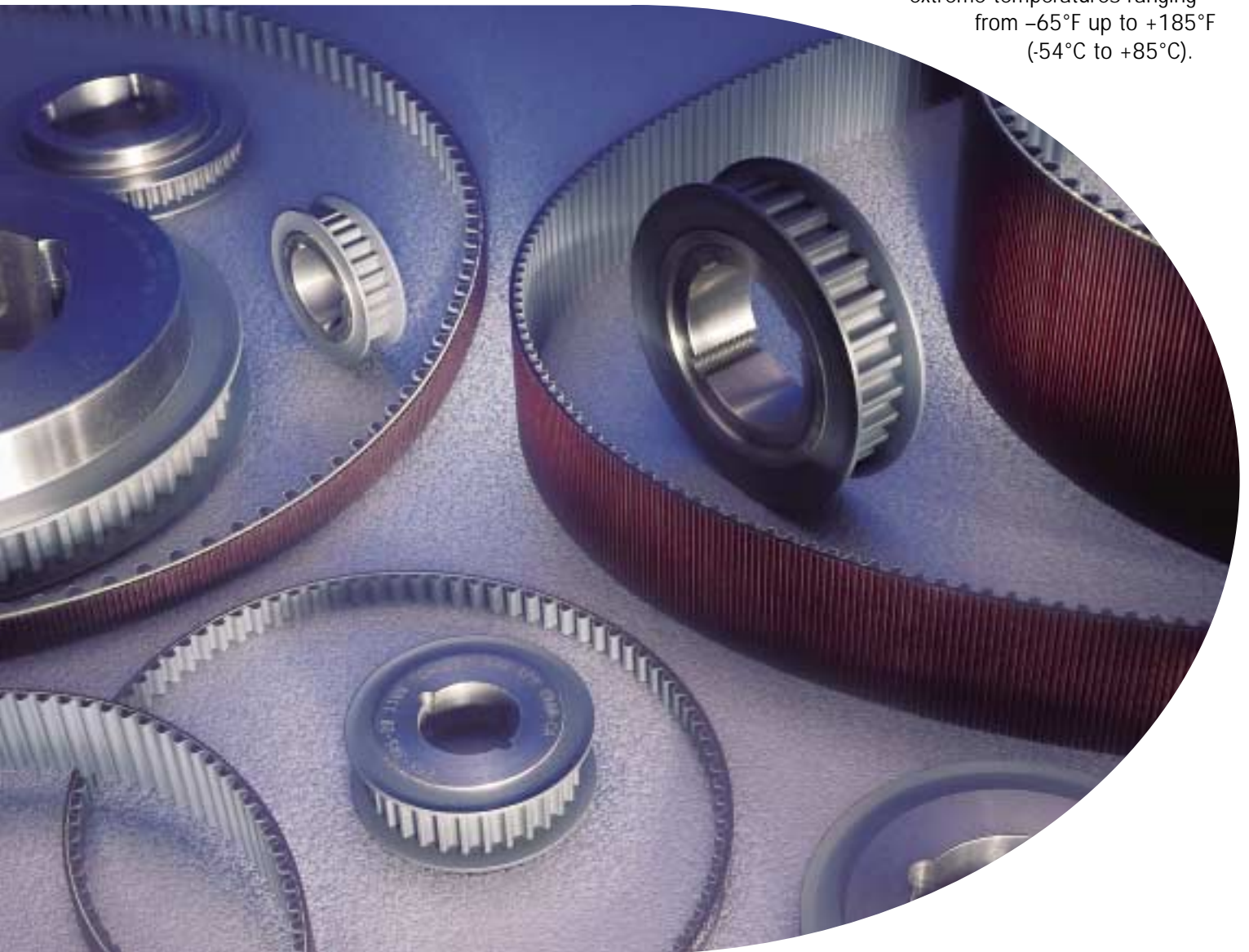
New Poly Chain GT2 is Gates most powerful synchronous belt, ideally suited for low-speed (below 500 rpm), high torque industrial applications. This improved belt features a polyurethane body with a robust aramid fiber tensile cord and new nylon tooth facing—improvements that enable increased load-carrying capacity. Size for size, space for space, Poly Chain GT2 transmits up to 30 percent more power than its predecessor. It also permits the design of more compact, lighter weight drives that deliver more power in less space than any other belt drive system available.

Poly Chain GT2 is the result of innovative state-of-the-art design and engineering. The body and teeth are made of a durable polyurethane compound, specially blended for uncompromising adhesion to the tensile cords and heavy nylon tooth facing, allowing for increased tooth shear strength and excellent flex life. The result is **the toughest belt on the market** by far, virtually immune to abrasion and chemical attack.

Poly Chain GT2 performs flawlessly, even under the harshest operating conditions.

The aramid fiber tensile cords constitute the belt's muscle. The cord provides exceptional flex fatigue life and its high impact strength makes the belt resistant to shock and surge loading. Poly Chain GT2 drives dramatically reduce maintenance costs, expensive production downtime and noise problems associated with the metal-to-metal contact of roller chain drives.

The nylon fabric covering the teeth is highly resistant to oil, chemicals, pollutants, corrosion and abrasion, while providing excellent tooth shear strength and durability. Poly Chain GT2 belts are exceptionally durable and remain fully operational under extreme temperatures ranging from  $-65^{\circ}\text{F}$  up to  $+185^{\circ}\text{F}$  ( $-54^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ).





**Patented tooth facing delivers more strength, greater tooth shear strength, reduced friction and eliminates the need for lubrication. Poly Chain GT2 belt drives are virtually maintenance free.**

**Polyurethane compound resists oils, chemicals, pollutants and abrasion. It's tough and performs in temperatures ranging from -65°F to +185°F.**

**Aramid fiber tensile cords provide extraordinary load carrying capability. For the same weight, they have a higher tensile modulus than steel for incredible strength and virtually zero elongation. Exceptional flex fatigue characteristics combined with the ability to absorb shock loads make Poly Chain GT2 the ideal drive system choice for low-speed high-torque applications.**

Taper-Lock® sprockets & bushings. Poly Chain GT2 belt drive systems feature a new line of sprockets that have been redesigned to carry the new increased belt power ratings. These new sprockets utilize the Taper-Lock bushing system that has been tested and proven in industry for many years. This allows easy sprocket installation and removal and keeps the hubs narrow so the length-thru-bore dimension is less than ever before. Now, Poly Chain GT2 sprockets will fit on those applications with short shafts, with room to spare.

Greater flexibility in design. Poly Chain GT2 sprocket/bushing systems use less space than conventional sprockets and sheaves. In comparison with most competitive drives (roller chain or rubber), Poly Chain GT2 belt drives are as little as one-half the width and 50 percent lighter. Yet they can deliver over five times more horsepower than standard rubber synchronous systems in the same space. Savings like these in space and weight allow for a wide latitude in design flexibility.

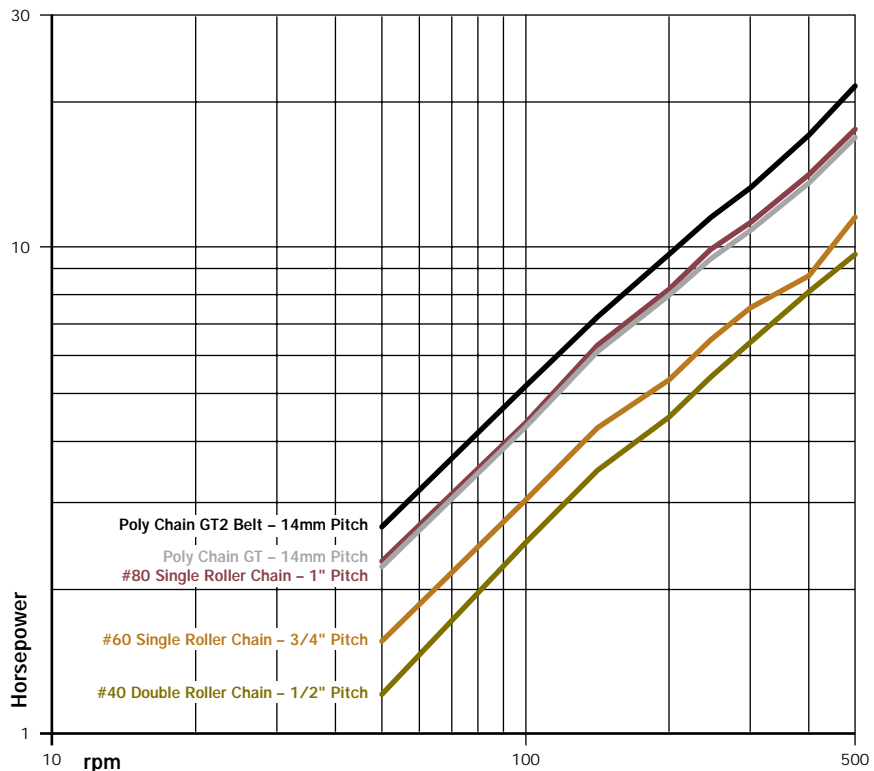
hundreds—if not thousands—of dollars per drive per year. You have no choice. If you use roller chain drives, you must maintain them or they will break down. Consequently, regular scheduled maintenance on your production equipment must be accomplished to maintain these roller chain drives, often resulting in extensive downtime. Elimination of this downtime would clearly result in increased production output.

In addition, the left-justified hub design allows shaft mounting close to outboard bearings. This keeps the center of load dimension small, so overhung load values are as low as possible—lower than any competitive belt drive system.

How do you calculate the cost of downtime? The “normal” downtime costs and lost productivity resulting from maintenance and chain replacement could add up to

Poly Chain GT2 is the ideal candidate for low-speed and speed reducer applications. Its high load carrying capacity is unmatched by any competitive belt drive system, allowing drive designs in widths narrower than ever before, approaching roller chain drive systems.

More horsepower in less space for less cost. From low-speed fractional horsepower drives to more than 1,200 horsepower, Poly Chain GT2 drives are unsurpassed in transmitting positive power over a wide range of loads, while withstanding power surges and shock loading. Think of all the places you could use a drive system like that!



**Horsepower Rating Comparison**  
(Width is approximately 1" for all transmission media)





Poly Chain GT2 advantages over roller chain:

- *Long, dependable life*
- *Reduced downtime*
- *Virtually maintenance free*
- *No retensioning*
- *Quiet*
- *Minimal vibration due to chordal action*
- *Virtually no elongation*
- *Clean running system*
- *No expensive oil baths*
- *No lubrication*
- *Resistant to chemicals and contaminants*
- *Excellent shock load resistance*

Save big with Poly Chain GT2 drives:

- *No "hidden costs" in lost productivity*
- *No "hidden costs" of ongoing maintenance*
- *Poly Chain GT2 drives reduce overall costs and can pay for themselves in less than one year*
- *Poly Chain GT2 drives will often outlast roller chain 3 to 1*

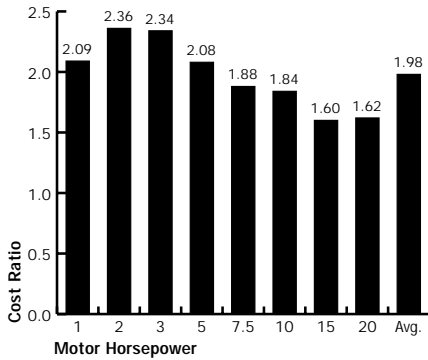
The hidden costs of roller chain:

- *Expensive drive enclosures*
- *Lubrication systems*
- *Lubricant cost and disposal*
- *Broken chain replacement*
- *Worn sprocket replacement*
- *Maintenance downtime*
- *Safety issues*
- *Environmental noise concerns*

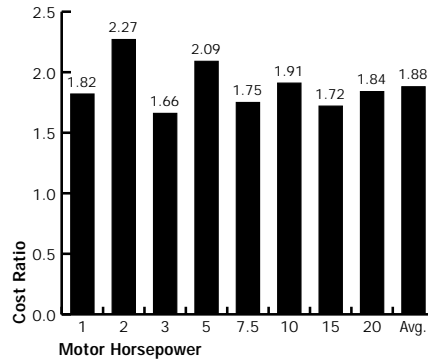


Poly Chain GT2 Drives are guaranteed to outperform and outmuscle roller chain and high-performance rubber belt synchronous systems— at a lower overall service lifetime cost per drive. *And here's proof!*

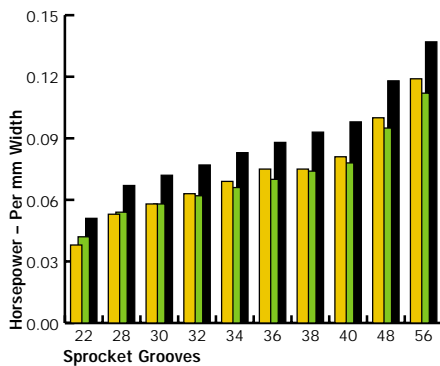
Poly Chain® GT<sup>2</sup>  
 Poly Chain® GT®   
  Dayco® Panther®   
  Goodyear® Eagle Pd™   
  HTD®



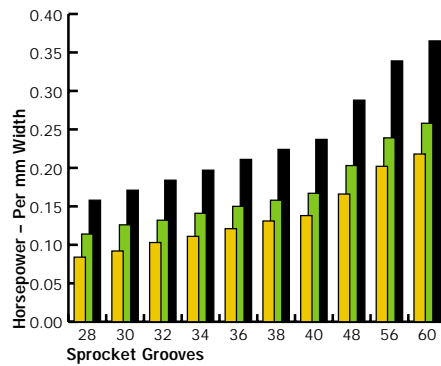
Cost Ratio  
Poly Chain GT2/Roller Chain  
(100 rpm Shaft Speed)



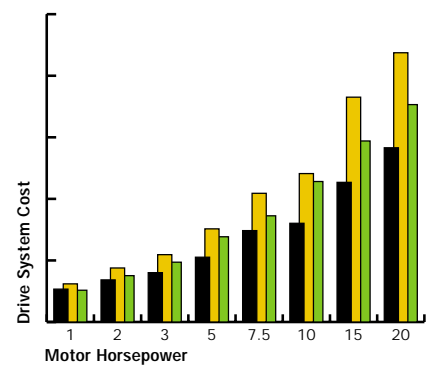
Cost Ratio  
Poly Chain GT2/Roller Chain  
(200 rpm Shaft Speed)



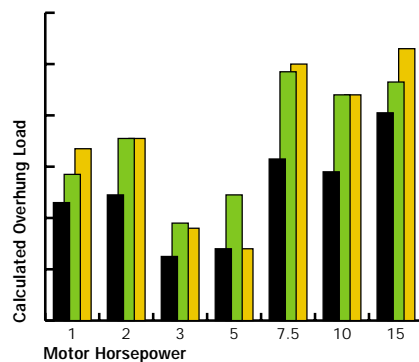
Horsepower Per mm Belt Width  
Light Package Conveyor Example  
(8mm Pitch, 100 rpm Reducer Output  
Service Factor Added)



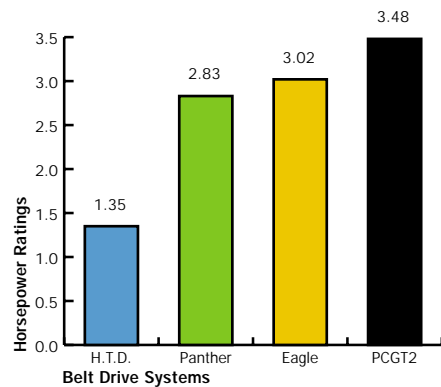
Horsepower Per mm Belt Width  
Light Package Conveyor Example  
(14mm Pitch, 100 rpm Reducer Output  
Service Factor Added)



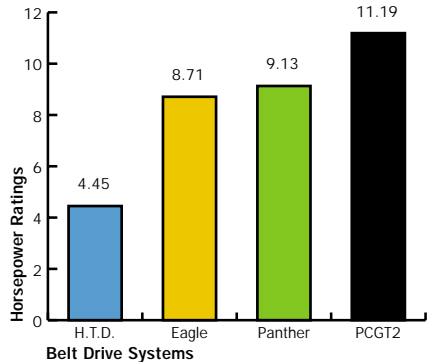
System Cost For Motor Horsepowers  
(1:1 Speed Ratio, 103 rpm Reducer Output)



Overhung Load Comparison  
Poly Chain GT2 vs Eagle Pd and Panther  
(All drives designed with  
comparable diameter sprockets)



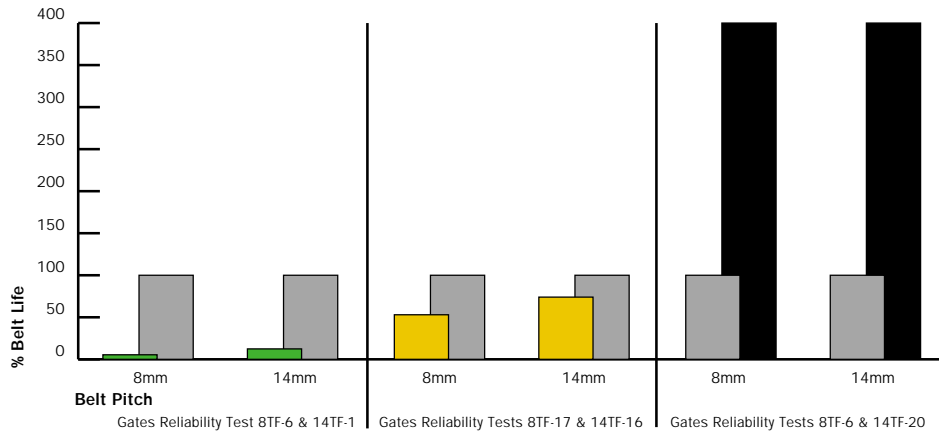
Published Horsepower Rating  
Per Inch of Width  
(8mm Sprocket, 56 Groove,  
100 rpm Reducer Output)



Published Horsepower Rating  
Per Inch of Width  
(14mm Sprocket, 56 Groove,  
100 rpm Reducer Output)

\* Because Poly Chain GT2 belts have the highest capacity, a narrow belt drive can be used, meaning that the center of the belt load is closer to the reducer bearing, resulting in less bearing load.





**Life Performance Indexes**  
**Poly Chain GT vs Panther, Eagle and Poly Chain GT2**

Belt Test Descriptions



Test ID	Pitch	Speed	Sprockets	Load
8TF-6	8mm	2000 rpm	24T/24T	High Torque
8TF-17	8mm	2000 rpm	24T/24T	High Torque
14TF-1	14mm	1750 rpm	32T/32T	High Torque
14TF-16	14mm	1750 rpm	32T/32T	High Torque
14TF-20	14mm	1750 rpm	32T/32T	High Torque

Note: All competitive belt tests were conducted in a laboratory environment under identical operating conditions

**8mm Pitch Product Line Comparison**

	Gates Poly Chain GT2	Goodyear Eagle Pd	Dayco RPP Panther
Sprocket Diameters	26	26	20
Sprocket Selections	103	52	80
Center Distance Range	5.51 – 84.72	5.51 – 44.09	3.78 – 83.15
Maximum Speed Ratio	10.18:1	11.20:1	8.73:1
Belt Length Selections	20	14	26
Belt Length Range	640 – 4480mm	640 – 2400mm	480 – 4400mm
Belt Width Selections	12-21-36-62	16-32	12-22-35-60
Total Drive Combinations	22,000+	7,000+	16,500+

**14mm Pitch Product Line Comparison**

	Gates Poly Chain GT2	Goodyear Eagle Pd	Dayco RPP Panther
Sprocket Diameters	32	21	23
Sprocket Selections	160	84	115
Center Distance Range	8.54 – 79.09	8.54 – 47.40	7.99 – 89.84
Maximum Speed Ratio	8.00:1	6.00:1	7.71:1
Belt Length Selections	19	14	18
Belt Length Range	994 – 4410mm	994 – 2800mm	966 – 4956mm
Belt Width Selections	20-37-68-90-125	35-53-70-105	20-42-65-90-120
Total Drive Combinations	36,000+	8,000+	17,500+

® TM Eagle PD is a trademark of The Goodyear Tire & Rubber Company. Dayco and Panther are registered trademarks and RPP is a trademark of Dayco Products Inc.



The bottom line:  
Compared to other drive system alternatives to roller chain available today, Poly Chain GT2 drives offer you:

- **The most compact belt drive system available today**
- **Lowest cost drive system at low speed**
- **Lowest overhung load generated on speed reducer shafts**
- **Longest life, width for width**

That's why Gates is **The Driving Force In Power Transmission!**

**Poly Chain GT2 vs. Roller Chain Savings Calculator**  
This sample calculator below illustrates the dramatic cost savings of a Poly Chain GT2 drive system compared to a roller chain system.

Make the switch to Poly Chain GT2  
Poly Chain GT2 drives tested in a variety of applications lasted longer and required less maintenance than the roller chain or rubber belt drives they replaced. The following industries are ideal for Poly Chain GT2 drive systems:

Lumber, Pulp & Paper  
*Conveyors, repulpers, sentry screens, effluent systems, presses, waxers, chippers, debarkers, slashers, chip 'n saws, edgers, roll grinders, screw conveyors, flotation cells, cut-off saws, hourglass rolls, dryers, agitators, calendars, pumps, winders*

Packaging  
*Box makers, carton sealers, case palletizers, and live roll, apron, belt, chain and screw conveyors*

Food Processing  
*Pumps, bucket elevators, belt conveyors, icing machines, elongators, dough mixers, cookers, mills, bottling machines, meat grinders, hog dehairers*

Aluminum/Steel  
*Bucket elevators, shot blasters, conveyor drives, scrap cutters, sand seals, drag-out machines, polishers, cooling chambers, muffler furnaces, mandrel stripping rods, spinner cars, gray iron foundries, sand conveyors, bucket elevators, grinders*

Petrochemical Industries  
*Air coolers, chlorine compressors, processing, centrifuges, dryers, compressors, pumps*

Sand, Gravel & Concrete  
*Feeder drives, conveyor drives, elevators, screw conveyors*

Glass Manufacturing/Bottles  
*Conveyors, crushers, grinders, carton sealers, case palletizers*

And more!

Gates Poly Chain GT2 belts are protected by U.S. patents 4,838,843, 4,605,389, 4,652,252, 5,971,879 and U.S. and foreign patents pending.

ANNUAL COSTS	Roller Chain	Poly Chain® GT2®
Unit Cost of New Drive System	\$ 110.21	\$ 186.34
Yearly Costs To Maintain Roller Chain:		
Replacement cost - Chain/Belt	\$ 33.96	\$ *
Labor	\$ 13.00	\$ *
Replacement cost - Sprockets	\$ 28.58	\$ *
Labor	\$ 13.00	\$ *
Lubrication cost - Labor	\$ 6.50	\$
Disposal	\$ ?	\$
Production Downtime	\$ 100.00	\$
Employee Complaints (noise/lost production)	\$ ?	\$
Safety costs (lube on floor, etc.)	\$ ?	\$
Annual Total Cost to Maintain System:	\$ 195.04	\$ 0.00
Annual Total Cost of New System:	\$ 305.25	\$ 186.34
Annual Total Cost to Maintain System: Pay Back: Poly Chain GT2	0.61 Years	\$ 186.34
Cost of Systems in Three Years	\$ 695.33	\$ 266.34
Savings in Dollars - First Three Years:	\$ 508.99 Per Drive	\$ 266.34
Cost of Systems in Five Years	\$ 1,085.41	\$ 266.34
Savings in Dollars - First Five Years:	\$ 819.07 Per Drive	\$ 266.34

\*NOTE: Worksheet assumes that roller chain drives are replaced once per year on the average and that a properly designed Poly Chain GT2 belt (only) should have to be replaced only once every 3 years; hence the yearly replacement costs are calculated at 1/3 of the component cost.

Visit [www.gates.com/sync](http://www.gates.com/sync)  
for an online version

# SAFETY POLICY

**WARNING! Be Safe!** Gates belt drive systems are very reliable when used safely and within Gates application recommendations. However, there are specific USES THAT MUST BE AVOIDED due to the risk of serious injury or death. These prohibited misuses include:

## Primary In Flight Aircraft Systems

Do not use Gates belts, pulleys or sprockets on aircraft, propeller or rotor drive systems or in-flight accessory drives. Gates belt drive systems are not intended for aircraft use.

## Lift Systems

Do not use Gates belts, pulleys or sprockets in applications that depend solely upon the belt to raise/lower, support or sustain a mass without an independent safety backup system. Gates belt drive systems are not intended for use in applications requiring special “Lift” or “Proof” type chains with minimum tensile strength or certified/test tensile strength requirements.

## Braking Systems

Do not use Gates belts, pulleys or sprockets in applications that depend solely upon the belt to slow or stop a mass, or to act as a brake without an independent safety backup system. Gates belt drive systems are not intended to function as a braking device in “emergency stop” systems.

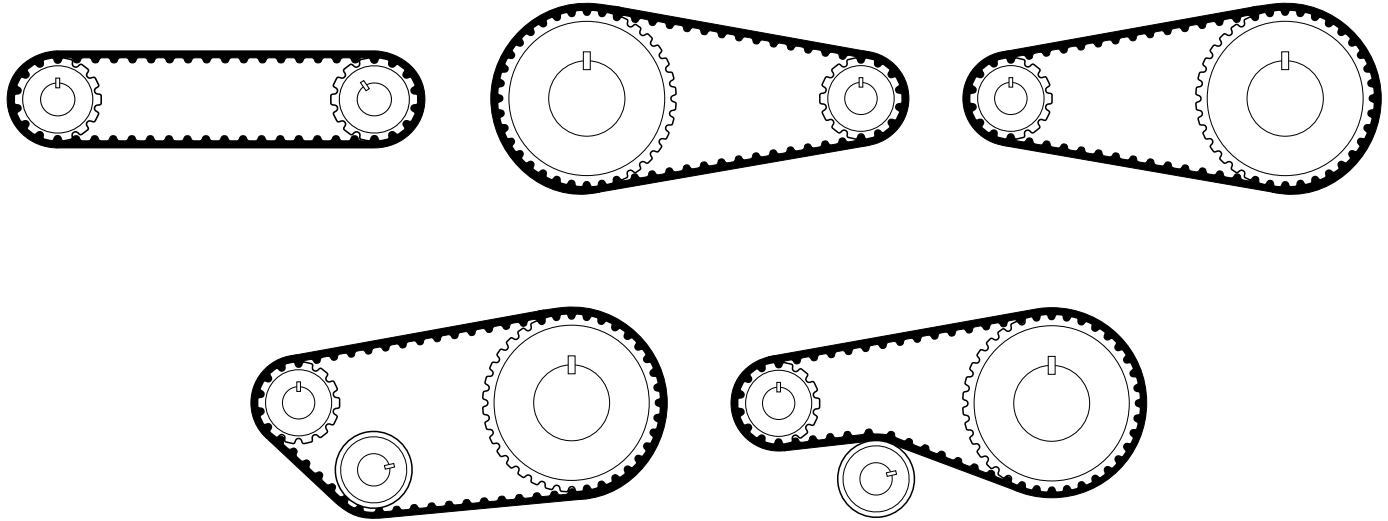
## Application Examples

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The following illustrations show a few of the many ways that Poly Chain® GT®2 belt drives can be used to transmit both power and motion. Synchronous belt drive systems are amazingly versatile, yet reliable and efficient.

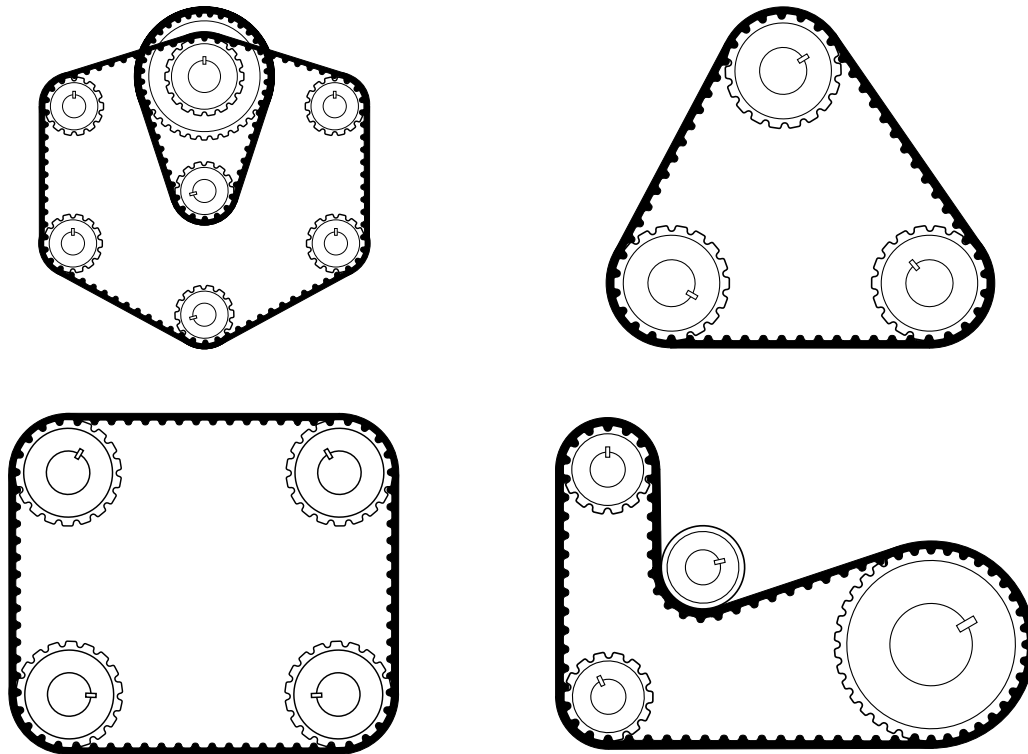
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### *Common Drive Configurations*



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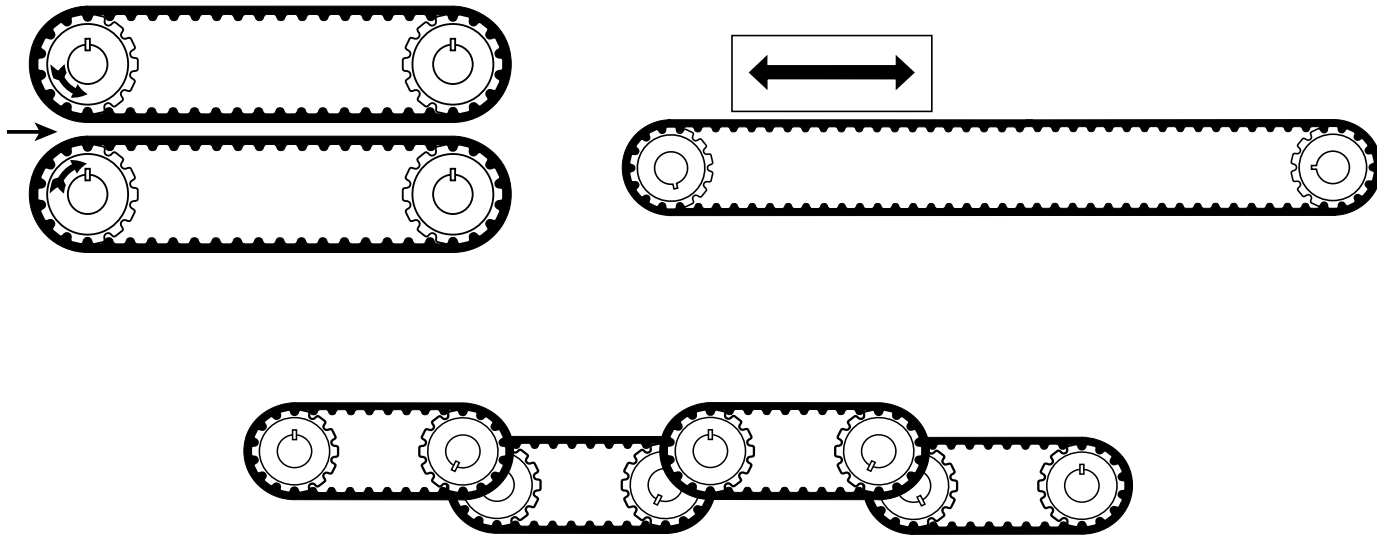
### *Multiple Shaft Drive Configurations*



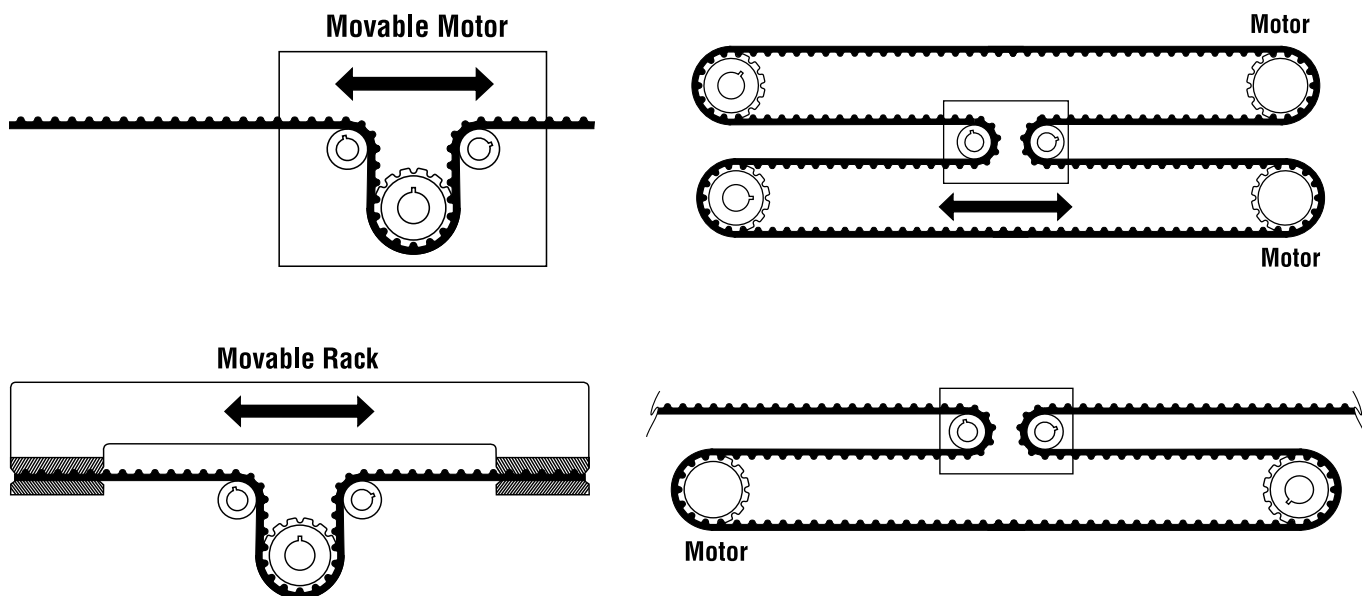


## Application Examples — continued

### Conveying and Material Transport Applications

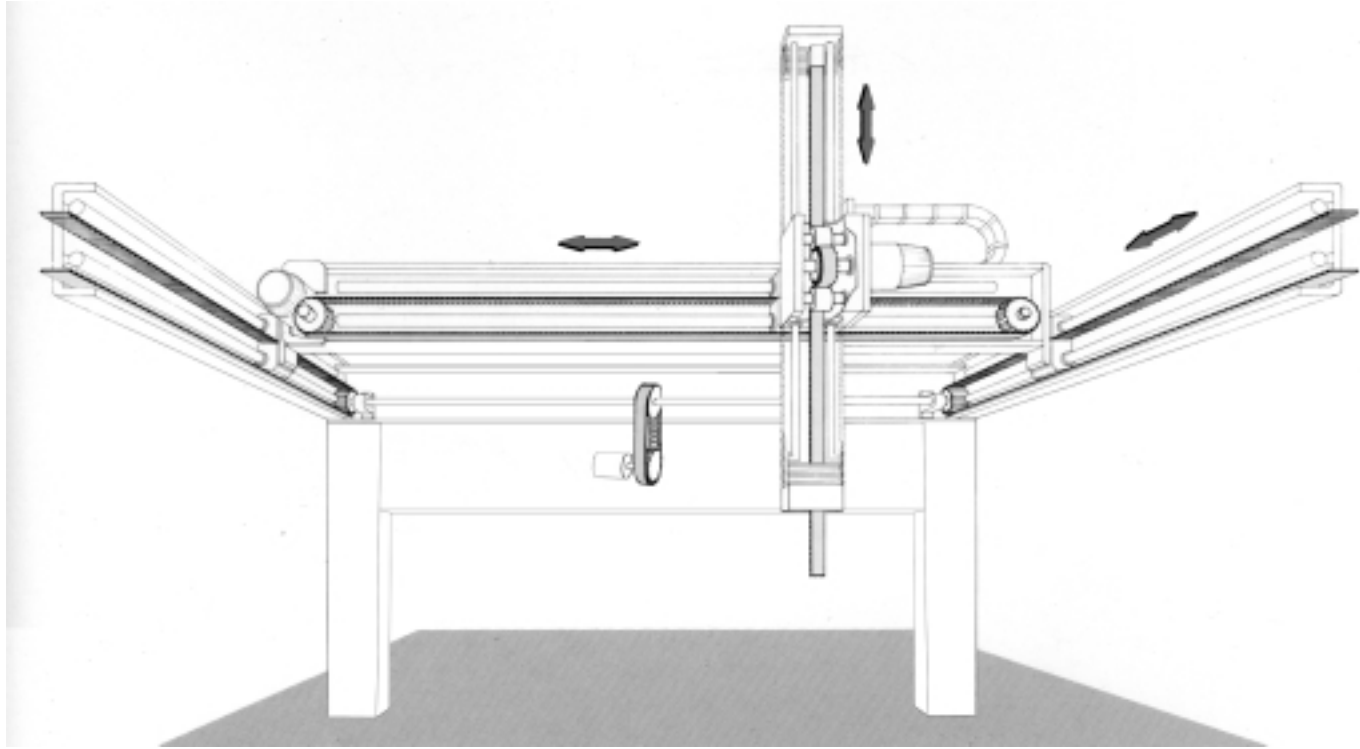


### Rack and Carriage Drive Configurations

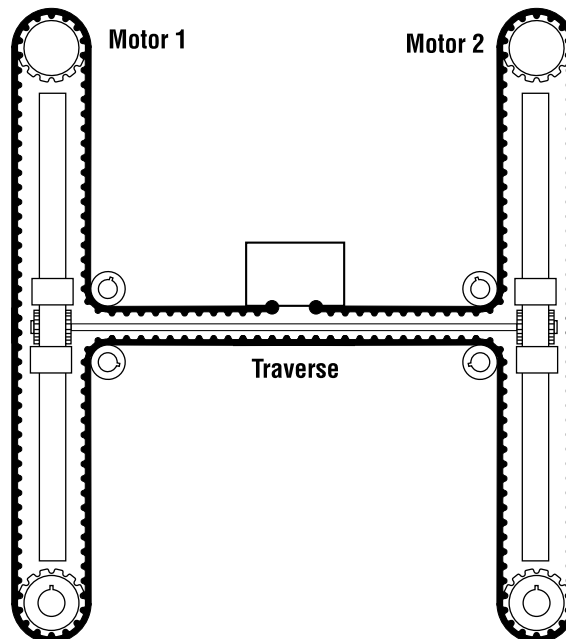


## Application Examples — continued

### *Long Length Drive Applications*

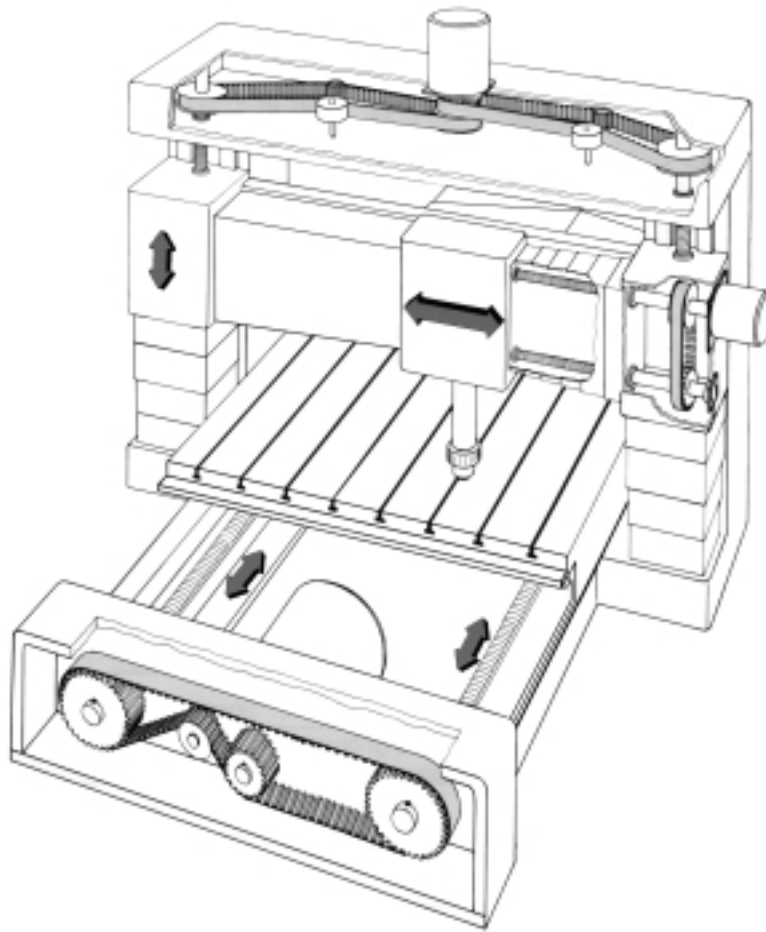


### *Complex Carriage Drive Configuration*



## Application Examples — continued

### *Lead Screw Drive Applications*





## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
22	2.206	22	2.206	1.000	9.13	10.71	12.28	14.17	16.22	18.58	20.15	21.73	24.88
25	2.506	25	2.506	1.000	8.66	10.24	11.81	13.70	15.75	18.11	19.68	21.26	24.41
28	2.807	28	2.807	1.000	8.19	9.77	11.34	13.23	15.28	17.64	19.21	20.79	23.94
30	3.008	30	3.008	1.000	7.88	9.45	11.03	12.92	14.96	17.32	18.90	20.47	23.62
32	3.208	32	3.208	1.000	7.56	9.14	10.71	12.60	14.65	17.01	18.58	20.16	23.31
34	3.409	34	3.409	1.000	7.25	8.82	10.40	12.29	14.33	16.69	18.27	19.84	22.99
36	3.609	36	3.609	1.000	6.93	8.51	10.08	11.97	14.02	16.38	17.95	19.53	22.68
38	3.810	38	3.810	1.000	6.62	8.19	9.77	11.66	13.70	16.06	17.64	19.21	22.36
40	4.010	40	4.010	1.000	6.30	7.88	9.45	11.34	13.39	15.75	17.32	18.90	22.05
42	4.211	42	4.211	1.000	5.99	7.56	9.14	11.03	13.07	15.43	17.01	18.58	21.73
45	4.511	45	4.511	1.000	5.51	7.09	8.66	10.55	12.60	14.96	16.53	18.11	21.26
48	4.812	48	4.812	1.000		6.62	8.19	10.08	12.13	14.49	16.06	17.64	20.79
50	5.013	50	5.013	1.000		6.30	7.88	9.77	11.81	14.17	15.75	17.32	20.47
53	5.314	53	5.314	1.000		5.83	7.40	9.29	11.34	13.70	15.27	16.85	20.00
56	5.614	56	5.614	1.000			6.93	8.82	10.87	13.23	14.80	16.38	19.53
60	6.015	60	6.015	1.000				8.19	10.24	12.60	14.17	15.75	18.90
63	6.316	63	6.316	1.000				7.72	9.76	12.12	13.70	15.27	18.42
67	6.717	67	6.717	1.000					9.13	11.49	13.07	14.64	17.79
71	7.118	71	7.118	1.000					8.50	10.86	12.44	14.01	17.16
75	7.519	75	7.519	1.000						10.23	11.81	13.38	16.53
80	8.020	80	8.020	1.000						9.45	11.02	12.60	15.75
48	4.812	50	5.013	1.042		6.46	8.03	9.92	11.97	14.33	15.90	17.48	20.63
40	4.010	42	4.211	1.050	6.14	7.72	9.29	11.18	13.23	15.59	17.16	18.74	21.89
60	6.015	63	6.316	1.050				7.95	10.00	12.36	13.93	15.51	18.66
38	3.810	40	4.010	1.053	6.46	8.03	9.61	11.50	13.54	15.90	17.48	19.05	22.20
36	3.609	38	3.810	1.056	6.77	8.35	9.92	11.81	13.86	16.22	17.79	19.37	22.52
71	7.118	75	7.519	1.056					8.19	10.55	12.12	13.70	16.85
53	5.314	56	5.614	1.057			7.17	9.06	11.10	13.46	15.04	16.61	19.76
34	3.409	36	3.609	1.059	7.09	8.66	10.24	12.13	14.17	16.53	18.11	19.68	22.83
50	5.013	53	5.314	1.060		6.06	7.64	9.53	11.57	13.93	15.51	17.08	20.23
67	6.717	71	7.118	1.060					8.82	11.18	12.75	14.33	17.48
32	3.208	34	3.409	1.063	7.40	8.98	10.55	12.44	14.49	16.85	18.42	20.00	23.15
63	6.316	67	6.717	1.063				7.40	9.45	11.81	13.38	14.96	18.11
30	3.008	32	3.208	1.067	7.72	9.29	10.87	12.76	14.80	17.16	18.74	20.31	23.46
45	4.511	48	4.812	1.067	5.28	6.85	8.43	10.32	12.36	14.72	16.30	17.87	21.02
75	7.519	80	8.020	1.067						9.84	11.41	12.99	16.14
28	2.807	30	3.008	1.071	8.03	9.61	11.18	13.07	15.12	17.48	19.05	20.63	23.78
42	4.211	45	4.511	1.071	5.75	7.32	8.90	10.79	12.83	15.19	16.77	18.34	21.49
56	5.614	60	6.015	1.071			6.61	8.50	10.55	12.91	14.49	16.06	19.21
48	4.812	53	5.314	1.104		6.22	7.79	9.68	11.73	14.09	15.67	17.24	20.39
38	3.810	42	4.211	1.105	6.30	7.87	9.45	11.34	13.38	15.74	17.32	18.89	22.04
36	3.609	40	4.010	1.111	6.61	8.19	9.76	11.65	13.70	16.06	17.63	19.21	22.36
45	4.511	50	5.013	1.111		6.69	8.27	10.16	12.20	14.56	16.14	17.71	20.86
60	6.015	67	6.717	1.117				7.63	9.68	12.04	13.62	15.19	18.34
34	3.409	38	3.810	1.118	6.93	8.50	10.08	11.97	14.01	16.37	17.95	19.52	22.67
67	6.717	75	7.519	1.119					8.49	10.86	12.43	14.01	17.16
25	2.506	28	2.807	1.120	8.43	10.00	11.58	13.47	15.51	17.87	19.45	21.02	24.17
50	5.013	56	5.614	1.120		5.82	7.40	9.29	11.33	13.70	15.27	16.85	20.00
32	3.208	36	3.609	1.125	7.24	8.82	10.39	12.28	14.33	16.69	18.26	19.84	22.99
40	4.010	45	4.511	1.125	5.90	7.48	9.05	10.94	12.99	15.35	16.93	18.50	21.65
56	5.614	63	6.316	1.125				8.26	10.31	12.67	14.25	15.82	18.97
80	8.020	90	9.023	1.125							10.22	11.80	14.95
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
28.03	31.81	35.90	40.63	43.78	46.14	52.44	59.52	67.40	75.27	84.72	1.000	22	22
27.56	31.34	35.43	40.16	43.31	45.67	51.97	59.05	66.93	74.80	84.25	1.000	25	25
27.09	30.87	34.96	39.69	42.84	45.20	51.50	58.58	66.46	74.33	83.78	1.000	28	28
26.77	30.55	34.65	39.37	42.52	44.88	51.18	58.27	66.14	74.02	83.47	1.000	30	30
26.46	30.24	34.33	39.06	42.21	44.57	50.87	57.95	65.83	73.70	83.15	1.000	32	32
26.14	29.92	34.02	38.74	41.89	44.25	50.55	57.64	65.51	73.39	82.84	1.000	34	34
25.83	29.61	33.70	38.43	41.58	43.94	50.24	57.32	65.20	73.07	82.52	1.000	36	36
25.51	29.29	33.39	38.11	41.26	43.62	49.92	57.01	64.88	72.76	82.21	1.000	38	38
25.20	28.98	33.07	37.80	40.95	43.31	49.61	56.69	64.57	72.44	81.89	1.000	40	40
24.88	28.66	32.76	37.48	40.63	42.99	49.29	56.38	64.25	72.13	81.58	1.000	42	42
24.41	28.19	32.28	37.01	40.16	42.52	48.82	55.90	63.78	71.65	81.10	1.000	45	45
23.94	27.72	31.81	36.54	39.69	42.05	48.35	55.43	63.31	71.18	80.63	1.000	48	48
23.62	27.40	31.50	36.22	39.37	41.73	48.03	55.12	62.99	70.87	80.32	1.000	50	50
23.15	26.93	31.02	35.75	38.90	41.26	47.56	54.64	62.52	70.39	79.84	1.000	53	53
22.68	26.46	30.55	35.28	38.43	40.79	47.09	54.17	62.05	69.92	79.37	1.000	56	56
22.05	25.83	29.92	34.65	37.80	40.16	46.46	53.54	61.42	69.29	78.74	1.000	60	60
21.57	25.35	29.45	34.17	37.32	39.68	45.98	53.07	60.94	68.82	78.27	1.000	63	63
20.94	24.72	28.82	33.54	36.69	39.05	45.35	52.44	60.31	68.19	77.64	1.000	67	67
20.31	24.09	28.19	32.91	36.06	38.42	44.72	51.81	59.68	67.56	77.01	1.000	71	71
19.68	23.46	27.56	32.28	35.43	37.79	44.09	51.18	59.05	66.93	76.38	1.000	75	75
18.90	22.68	26.77	31.50	34.65	37.01	43.31	50.39	58.27	66.14	75.59	1.000	80	80
23.78	27.56	31.65	36.38	39.53	41.89	48.19	55.27	63.15	71.02	80.47	1.042	48	50
25.04	28.82	32.91	37.64	40.79	43.15	49.45	56.53	64.41	72.28	81.73	1.050	40	42
21.81	25.59	29.68	34.41	37.56	39.92	46.22	53.31	61.18	69.06	78.51	1.050	60	63
25.35	29.13	33.23	37.95	41.10	43.46	49.76	56.85	64.72	72.60	82.05	1.053	38	40
25.67	29.45	33.54	38.27	41.42	43.78	50.08	57.16	65.04	72.91	82.36	1.056	36	38
20.00	23.78	27.87	32.60	35.75	38.11	44.41	51.49	59.37	67.24	76.69	1.056	71	75
22.91	26.69	30.79	35.51	38.66	41.02	47.32	54.41	62.28	70.16	79.61	1.057	53	56
25.98	29.76	33.86	38.58	41.73	44.09	50.39	57.48	65.35	73.23	82.68	1.059	34	36
23.38	27.16	31.26	35.98	39.13	41.49	47.79	54.88	62.75	70.63	80.08	1.060	50	53
20.63	24.41	28.50	33.23	36.38	38.74	45.04	52.12	60.00	67.87	77.32	1.060	67	71
26.30	30.08	34.17	38.90	42.05	44.41	50.71	57.79	65.67	73.54	82.99	1.063	32	34
21.26	25.04	29.13	33.86	37.01	39.37	45.67	52.75	60.63	68.50	77.95	1.063	63	67
26.61	30.39	34.49	39.21	42.36	44.72	51.02	58.11	65.98	73.86	83.31	1.067	30	32
24.17	27.95	32.05	36.77	39.92	42.28	48.58	55.67	63.54	71.42	80.87	1.067	45	48
19.29	23.07	27.16	31.89	35.04	37.40	43.70	50.79	58.66	66.54	75.99	1.067	75	80
26.93	30.71	34.80	39.53	42.68	45.04	51.34	58.42	66.30	74.17	83.62	1.071	28	30
24.64	28.42	32.52	37.24	40.39	42.75	49.05	56.14	64.01	71.89	81.34	1.071	42	45
22.36	26.14	30.24	34.96	38.11	40.47	46.77	53.86	61.73	69.61	79.06	1.071	56	60
23.54	27.32	31.42	36.14	39.29	41.65	47.95	55.04	62.91	70.79	80.24	1.104	48	53
25.19	28.97	33.07	37.79	40.94	43.30	49.60	56.69	64.57	72.44	81.89	1.105	38	42
25.51	29.29	33.39	38.11	41.26	43.62	49.92	57.01	64.88	72.76	82.21	1.111	36	40
24.01	27.79	31.89	36.61	39.76	42.12	48.42	55.51	63.38	71.26	80.71	1.111	45	50
21.49	25.27	29.37	34.09	37.24	39.60	45.90	52.99	60.86	68.74	78.19	1.117	60	67
25.82	29.60	33.70	38.42	41.57	43.93	50.23	57.32	65.19	73.07	82.52	1.118	34	38
20.31	24.09	28.19	32.91	36.06	38.42	44.72	51.81	59.68	67.56	77.01	1.119	67	75
27.32	31.10	35.20	39.92	43.07	45.43	51.73	58.82	66.69	74.57	84.02	1.120	25	28
23.15	26.93	31.02	35.75	38.90	41.26	47.56	54.64	62.52	70.39	79.84	1.120	50	56
26.14	29.92	34.02	38.74	41.89	44.25	50.55	57.64	65.51	73.39	82.84	1.125	32	36
24.80	28.58	32.68	37.40	40.55	42.91	49.21	56.30	64.17	72.05	81.50	1.125	40	45
22.12	25.90	30.00	34.72	37.87	40.23	46.53	53.62	61.49	69.37	78.82	1.125	56	63
18.10	21.88	25.98	30.71	33.86	36.22	42.52	49.60	57.48	65.35	74.80	1.125	80	90
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*		

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
63	6.316	71	7.118	1.127				9.13	11.49	13.06	14.64	17.79	
71	7.118	80	8.020	1.127					10.15	11.72	13.30	16.45	
53	5.314	60	6.015	1.132			6.84	8.74	10.78	13.14	14.72	16.29	
30	3.008	34	3.409	1.133	7.56	9.13	10.71	12.60	14.64	17.00	18.58	20.15	
22	2.206	25	2.506	1.136	8.90	10.47	12.05	13.94	15.98	18.34	19.92	21.49	
28	2.807	32	3.208	1.143	7.87	9.45	11.02	12.91	14.96	17.32	18.89	20.47	
42	4.211	48	4.812	1.143	5.51	7.08	8.66	10.55	12.59	14.96	16.53	18.11	
36	3.609	42	4.211	1.167	6.45	8.03	9.60	11.49	13.54	15.90	17.48	19.05	
48	4.812	56	5.614	1.167		5.97	7.55	9.44	11.49	13.85	15.43	17.00	
34	3.409	40	4.010	1.176	6.77	8.34	9.92	11.81	13.85	16.22	17.79	19.37	
45	4.511	53	5.314	1.178		6.45	8.02	9.92	11.96	14.32	15.90	17.47	
60	6.015	71	7.118	1.183				7.30	9.35	11.72	13.29	14.87	
38	3.810	45	4.511	1.184	6.05	7.63	9.21	11.10	13.15	15.51	17.08	18.66	
32	3.208	38	3.810	1.188	7.08	8.66	10.23	12.12	14.17	16.53	18.11	19.68	
53	5.314	63	6.316	1.189			6.60	8.49	10.54	12.90	14.48	16.05	
42	4.211	50	5.013	1.190	5.34	6.92	8.50	10.39	12.43	14.80	16.37	17.95	
63	6.316	75	7.519	1.190					8.80	11.16	12.74	14.32	
67	6.717	80	8.020	1.194					8.08	10.45	12.03	13.60	
56	5.614	67	6.717	1.196				7.94	9.99	12.35	13.92	15.50	
25	2.506	30	3.008	1.200	8.27	9.84	11.42	13.31	15.35	17.71	19.29	20.86	
30	3.008	36	3.609	1.200	7.40	8.97	10.55	12.44	14.48	16.85	18.42	20.00	
40	4.010	48	4.812	1.200	5.66	7.24	8.81	10.70	12.75	15.11	16.69	18.26	
50	5.013	60	6.015	1.200			7.07	8.96	11.01	13.37	14.95	16.53	
75	7.519	90	9.023	1.200						9.02	10.60	12.18	
28	2.807	34	3.409	1.214	7.71	9.29	10.86	12.75	14.80	17.16	18.74	20.31	
34	3.409	42	4.211	1.235	6.60	8.18	9.76	11.65	13.69	16.06	17.63	19.21	
45	4.511	56	5.614	1.244			6.20	7.78	9.67	11.72	14.08	15.66	
32	3.208	40	4.010	1.250	6.92	8.50	10.07	11.96	14.01	16.37	17.95	19.52	
36	3.609	45	4.511	1.250	6.21	7.78	9.36	11.25	13.30	15.66	17.24	18.81	
40	4.010	50	5.013	1.250	5.49	7.07	8.65	10.54	12.59	14.95	16.53	18.10	
48	4.812	60	6.015	1.250			7.22	9.12	11.17	13.53	15.10	16.68	
60	6.015	75	7.519	1.250					9.02	11.39	12.97	14.55	
50	5.013	63	6.316	1.260			6.82	8.72	10.77	13.13	14.71	16.28	
42	4.211	53	5.314	1.262		6.67	8.25	10.14	12.19	14.55	16.13	17.71	
38	3.810	48	4.812	1.263	5.81	7.39	8.96	10.86	12.90	15.27	16.84	18.42	
53	5.314	67	6.717	1.264				8.16	10.21	12.58	14.15	15.73	
30	3.008	38	3.810	1.267	7.23	8.81	10.39	12.28	14.32	16.69	18.26	19.84	
56	5.614	71	7.118	1.268				7.60	9.66	12.02	13.60	15.18	
71	7.118	90	9.023	1.268						9.32	10.90	12.48	
63	6.316	80	8.020	1.270					8.38	10.75	12.33	13.91	
22	2.206	28	2.807	1.273	8.66	10.23	11.81	13.70	15.74	18.11	19.68	21.26	
25	2.506	32	3.208	1.280	8.10	9.68	11.26	13.15	15.19	17.55	19.13	20.70	
28	2.807	36	3.609	1.286	7.55	9.13	10.70	12.59	14.64	17.00	18.58	20.15	
32	3.208	42	4.211	1.313	6.75	8.33	9.91	11.80	13.85	16.21	17.79	19.36	
48	4.812	63	6.316	1.313			6.97	8.87	10.92	13.28	14.86	16.44	
38	3.810	50	5.013	1.316	5.64	7.22	8.80	10.69	12.74	15.10	16.68	18.26	
34	3.409	45	4.511	1.324	6.36	7.94	9.51	11.41	13.45	15.82	17.39	18.97	
40	4.010	53	5.314	1.325	5.24	6.82	8.40	10.30	12.34	14.71	16.28	17.86	
30	3.008	40	4.010	1.333	7.07	8.65	10.23	12.12	14.16	16.53	18.10	19.68	
36	3.609	48	4.812	1.333	5.96	7.54	9.12	11.01	13.06	15.42	17.00	18.57	
42	4.211	56	5.614	1.333		6.42	8.00	9.90	11.95	14.31	15.89	17.46	
45	4.511	60	6.015	1.333		5.86	7.44	9.34	11.39	13.76	15.33	16.91	
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.



# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
20.94	24.72	28.82	33.54	36.69	39.05	45.35	52.44	60.31	68.19	77.64	1.127	63	71
19.60	23.38	27.48	32.20	35.35	37.71	44.01	51.10	58.97	66.85	76.30	1.127	71	80
22.59	26.37	30.47	35.20	38.35	40.71	47.01	54.09	61.97	69.84	79.29	1.132	53	60
26.45	30.23	34.33	39.05	42.20	44.56	50.86	57.95	65.82	73.70	83.15	1.133	30	34
27.79	31.57	35.67	40.39	43.54	45.90	52.20	59.29	67.16	75.04	84.49	1.136	22	25
26.77	30.55	34.65	39.37	42.52	44.88	51.18	58.27	66.14	74.02	83.47	1.143	28	32
24.41	28.19	32.28	37.01	40.16	42.52	48.82	55.90	63.78	71.65	81.10	1.143	42	48
25.35	29.13	33.23	37.95	41.10	43.46	49.76	56.85	64.72	72.60	82.05	1.167	36	42
23.30	27.08	31.18	35.90	39.05	41.41	47.71	54.80	62.68	70.55	80.00	1.167	48	56
25.67	29.45	33.54	38.27	41.42	43.78	50.08	57.16	65.04	72.91	82.36	1.176	34	40
23.78	27.56	31.65	36.38	39.53	41.89	48.19	55.27	63.15	71.02	80.47	1.178	45	53
21.17	24.95	29.05	33.78	36.93	39.29	45.59	52.67	60.55	68.42	77.87	1.183	60	71
24.96	28.74	32.83	37.56	40.71	43.07	49.37	56.45	64.33	72.20	81.65	1.184	38	45
25.98	29.76	33.86	38.58	41.73	44.09	50.39	57.48	65.35	73.23	82.68	1.188	32	38
22.36	26.14	30.23	34.96	38.11	40.47	46.77	53.85	61.73	69.60	79.05	1.189	53	63
24.25	28.03	32.12	36.85	40.00	42.36	48.66	55.74	63.62	71.49	80.94	1.190	42	50
20.62	24.40	28.50	33.22	36.37	38.73	45.03	52.12	60.00	67.87	77.32	1.190	63	75
19.91	23.69	27.79	32.51	35.66	38.03	44.33	51.41	59.29	67.16	76.61	1.194	67	80
21.80	25.58	29.68	34.41	37.56	39.92	46.22	53.30	61.18	69.05	78.50	1.196	56	67
27.16	30.94	35.04	39.76	42.91	45.27	51.57	58.66	66.53	74.41	83.86	1.200	25	30
26.30	30.08	34.17	38.90	42.05	44.41	50.71	57.79	65.67	73.54	82.99	1.200	30	36
24.56	28.34	32.44	37.16	40.31	42.67	48.97	56.06	63.93	71.81	81.26	1.200	40	48
22.83	26.61	30.70	35.43	38.58	40.94	47.24	54.33	62.20	70.08	79.53	1.200	50	60
18.49	22.27	26.37	31.09	34.24	36.61	42.91	49.99	57.87	65.74	75.19	1.200	75	90
26.61	30.39	34.49	39.21	42.36	44.72	51.02	58.11	65.98	73.86	83.31	1.214	28	34
25.51	29.29	33.38	38.11	41.26	43.62	49.92	57.00	64.88	72.75	82.20	1.235	34	42
23.54	27.32	31.41	36.14	39.29	41.65	47.95	55.04	62.91	70.79	80.24	1.244	45	56
25.82	29.60	33.70	38.42	41.57	43.93	50.23	57.32	65.19	73.07	82.52	1.250	32	40
25.11	28.89	32.99	37.71	40.87	43.23	49.53	56.61	64.49	72.36	81.81	1.250	36	45
24.40	28.18	32.28	37.00	40.16	42.52	48.82	55.90	63.78	71.65	81.10	1.250	40	50
22.98	26.76	30.86	35.59	38.74	41.10	47.40	54.48	62.36	70.23	79.68	1.250	48	60
20.85	24.63	28.73	33.46	36.61	38.97	45.27	52.36	60.23	68.11	77.56	1.250	60	75
22.59	26.37	30.47	35.19	38.34	40.70	47.00	54.09	61.96	69.84	79.29	1.260	50	63
24.01	27.79	31.88	36.61	39.76	42.12	48.42	55.51	63.38	71.26	80.71	1.262	42	53
24.72	28.50	32.59	37.32	40.47	42.83	49.13	56.22	64.09	71.97	81.42	1.263	38	48
22.03	25.82	29.91	34.64	37.79	40.15	46.45	53.54	61.41	69.29	78.74	1.264	53	67
26.14	29.92	34.01	38.74	41.89	44.25	50.55	57.63	65.51	73.38	82.83	1.267	30	38
21.48	25.26	29.36	34.09	37.24	39.60	45.90	52.98	60.86	68.74	78.19	1.268	56	71
18.79	22.58	26.68	31.40	34.55	36.92	43.22	50.30	58.18	66.06	75.51	1.268	71	90
20.22	24.00	28.10	32.82	35.98	38.34	44.64	51.72	59.60	67.48	76.93	1.270	63	80
27.56	31.34	35.43	40.16	43.31	45.67	51.97	59.05	66.93	74.80	84.25	1.273	22	28
27.00	30.79	34.88	39.61	42.76	45.12	51.42	58.50	66.38	74.25	83.70	1.280	25	32
26.45	30.23	34.33	39.05	42.20	44.56	50.86	57.95	65.82	73.70	83.15	1.286	28	36
25.66	29.44	33.54	38.26	41.42	43.78	50.08	57.16	65.04	72.91	82.36	1.313	32	42
22.74	26.52	30.62	35.35	38.50	40.86	47.16	54.24	62.12	70.00	79.45	1.313	48	63
24.56	28.34	32.43	37.16	40.31	42.67	48.97	56.06	63.93	71.81	81.26	1.316	38	50
25.27	29.05	33.15	37.87	41.02	43.38	49.68	56.77	64.64	72.52	81.97	1.324	34	45
24.16	27.94	32.04	36.77	39.92	42.28	48.58	55.66	63.54	71.41	80.86	1.325	40	53
25.98	29.76	33.85	38.58	41.73	44.09	50.39	57.48	65.35	73.23	82.68	1.333	30	40
24.87	28.65	32.75	37.48	40.63	42.99	49.29	56.37	64.25	72.12	81.57	1.333	36	48
23.77	27.55	31.65	36.37	39.52	41.88	48.18	55.27	63.14	71.02	80.47	1.333	42	56
23.22	27.00	31.09	35.82	38.97	41.33	47.63	54.72	62.59	70.47	79.92	1.333	45	60
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*		

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
60	6.015	80	8.020	1.333				8.60	10.98	12.56	14.14	17.29	
56	5.614	75	7.519	1.339			7.26	9.32	11.69	13.27	14.85	18.01	
50	5.013	67	6.717	1.340			6.48	8.38	10.44	12.80	14.38	15.96	
53	5.314	71	7.118	1.340				7.82	9.88	12.25	13.83	15.40	
67	6.717	90	9.023	1.343					9.61	11.20	12.78	15.94	
28	2.807	38	3.810	1.357	7.39	8.96	10.54	12.43	14.48	16.84	18.42	19.99	
25	2.506	34	3.409	1.360	7.94	9.52	11.10	12.99	15.03	17.39	18.97	20.54	
22	2.206	30	3.008	1.364	8.50	10.07	11.65	13.54	15.58	17.95	19.52	21.10	
36	3.609	50	5.013	1.389	5.79	7.37	8.95	10.85	12.89	15.26	16.83	18.41	
38	3.810	53	5.314	1.395	5.38	6.97	8.55	10.45	12.50	14.86	16.44	18.01	
48	4.812	67	6.717	1.396			6.63	8.53	10.59	12.96	14.53	16.11	
30	3.008	42	4.211	1.400	6.90	8.48	10.06	11.96	14.00	16.36	17.94	19.52	
40	4.010	56	5.614	1.400		6.57	8.15	10.05	12.10	14.46	16.04	17.62	
45	4.511	63	6.316	1.400			7.19	9.09	11.14	13.51	15.09	16.67	
80	8.020	112	11.229	1.400							9.95	13.13	
32	3.208	45	4.511	1.406	6.50	8.09	9.67	11.56	13.61	15.97	17.55	19.12	
34	3.409	48	4.812	1.412	6.10	7.69	9.27	11.16	13.21	15.57	17.15	18.73	
53	5.314	75	7.519	1.415				7.48	9.54	11.91	13.50	15.08	
50	5.013	71	7.118	1.420				8.04	10.10	12.47	14.05	15.63	
28	2.807	40	4.010	1.429	7.22	8.80	10.38	12.27	14.32	16.68	18.26	19.83	
42	4.211	60	6.015	1.429		6.08	7.67	9.57	11.62	13.98	15.56	17.14	
56	5.614	80	8.020	1.429					8.90	11.27	12.86	14.44	
63	6.316	90	9.023	1.429					9.91	11.49	13.08	16.24	
25	2.506	36	3.609	1.440	7.78	9.36	10.93	12.83	14.87	17.23	18.81	20.38	
22	2.206	32	3.208	1.455	8.33	9.91	11.49	13.38	15.42	17.79	19.36	20.94	
34	3.409	50	5.013	1.471	5.93	7.52	9.10	11.00	13.05	15.41	16.99	18.56	
36	3.609	53	5.314	1.472	5.53	7.12	8.70	10.60	12.65	15.01	16.59	18.17	
38	3.810	56	5.614	1.474		6.71	8.30	10.20	12.25	14.62	16.19	17.77	
48	4.812	71	7.118	1.479				8.19	10.25	12.62	14.20	15.78	
45	4.511	67	6.717	1.489			6.84	8.75	10.81	13.18	14.76	16.34	
75	7.519	112	11.229	1.493							10.30	13.49	
28	2.807	42	4.211	1.500	7.05	8.63	10.21	12.11	14.16	16.52	18.09	19.67	
30	3.008	45	4.511	1.500	6.65	8.24	9.82	11.71	13.76	16.12	17.70	19.27	
32	3.208	48	4.812	1.500	6.25	7.84	9.42	11.31	13.36	15.73	17.30	18.88	
40	4.010	60	6.015	1.500		6.22	7.81	9.71	11.77	14.14	15.71	17.29	
42	4.211	63	6.316	1.500		5.81	7.41	9.31	11.37	13.74	15.32	16.89	
50	5.013	75	7.519	1.500				7.70	9.76	12.14	13.72	15.30	
60	6.015	90	9.023	1.500					10.12	11.71	13.30	16.47	
53	5.314	80	8.020	1.509					9.11	11.49	13.08	14.66	
25	2.506	38	3.810	1.520	7.61	9.19	10.77	12.66	14.71	17.07	18.65	20.22	
22	2.206	34	3.409	1.545	8.17	9.75	11.32	13.22	15.26	17.62	19.20	20.78	
36	3.609	56	5.614	1.556	5.26	6.86	8.45	10.35	12.40	14.77	16.35	17.92	
34	3.409	53	5.314	1.559	5.67	7.26	8.85	10.75	12.80	15.16	16.74	18.32	
32	3.208	50	5.013	1.563	6.08	7.67	9.25	11.15	13.20	15.56	17.14	18.72	
48	4.812	75	7.519	1.563				7.84	9.91	12.29	13.87	15.45	
40	4.010	63	6.316	1.575		5.95	7.55	9.46	11.52	13.89	15.47	17.05	
71	7.118	112	11.229	1.577							10.59	13.78	
45	4.511	71	7.118	1.578			6.49	8.41	10.47	12.85	14.43	16.01	
38	3.810	60	6.015	1.579		6.36	7.96	9.86	11.92	14.29	15.87	17.44	
42	4.211	67	6.717	1.595			7.06	8.97	11.03	13.40	14.98	16.56	
25	2.506	40	4.010	1.600	7.44	9.03	10.61	12.50	14.55	16.91	18.49	20.06	
30	3.008	48	4.812	1.600	6.39	7.98	9.57	11.46	13.51	15.88	17.45	19.03	
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
20.45	24.23	28.33	33.06	36.21	38.57	44.87	51.96	59.83	67.71	77.16	1.333	60	80
21.16	24.94	29.04	33.77	36.92	39.28	45.58	52.67	60.54	68.42	77.87	1.339	56	75
22.27	26.05	30.15	34.87	38.02	40.38	46.68	53.77	61.65	69.52	78.97	1.340	50	67
21.71	25.49	29.59	34.32	37.47	39.83	46.13	53.22	61.09	68.97	78.42	1.340	53	71
19.10	22.88	26.98	31.71	34.86	37.22	43.53	50.61	58.49	66.37	75.82	1.343	67	90
26.29	30.07	34.17	38.89	42.05	44.41	50.71	57.79	65.67	73.54	82.99	1.357	28	38
26.85	30.63	34.72	39.45	42.60	44.96	51.26	58.34	66.22	74.09	83.54	1.360	25	34
27.40	31.18	35.27	40.00	43.15	45.51	51.81	58.89	66.77	74.64	84.09	1.364	22	30
24.71	28.49	32.59	37.32	40.47	42.83	49.13	56.21	64.09	71.96	81.42	1.389	36	50
24.32	28.10	32.20	36.92	40.07	42.43	48.73	55.82	63.69	71.57	81.02	1.395	38	53
22.42	26.20	30.30	35.03	38.18	40.54	46.84	53.93	61.80	69.68	79.13	1.396	48	67
25.82	29.60	33.69	38.42	41.57	43.93	50.23	57.32	65.19	73.07	82.52	1.400	30	42
23.92	27.70	31.80	36.53	39.68	42.04	48.34	55.43	63.30	71.18	80.63	1.400	40	56
22.97	26.76	30.85	35.58	38.73	41.09	47.39	54.48	62.35	70.23	79.68	1.400	45	63
16.30	20.09	24.20	28.93	32.09	34.45	40.76	47.84	55.72	63.60	73.05	1.400	80	112
25.42	29.21	33.30	38.03	41.18	43.54	49.84	56.92	64.80	72.67	82.12	1.406	32	45
25.03	28.81	32.91	37.63	40.78	43.14	49.44	56.53	64.40	72.28	81.73	1.412	34	48
21.39	25.17	29.27	34.00	37.15	39.51	45.81	52.90	60.78	68.65	78.10	1.415	53	75
21.94	25.73	29.82	34.55	37.70	40.06	46.37	53.45	61.33	69.20	78.66	1.420	50	71
26.13	29.91	34.01	38.74	41.89	44.25	50.55	57.63	65.51	73.38	82.83	1.429	28	40
23.45	27.23	31.33	36.05	39.20	41.56	47.87	54.95	62.83	70.70	80.15	1.429	42	60
20.75	24.54	28.64	33.37	36.52	38.88	45.18	52.27	60.14	68.02	77.47	1.429	56	80
19.40	23.19	27.29	32.02	35.17	37.53	43.84	50.92	58.80	66.68	76.13	1.429	63	90
26.69	30.47	34.56	39.29	42.44	44.80	51.10	58.18	66.06	73.94	83.39	1.440	25	36
27.24	31.02	35.11	39.84	42.99	45.35	51.65	58.74	66.61	74.49	83.94	1.455	22	32
24.87	28.65	32.75	37.47	40.62	42.98	49.28	56.37	64.25	72.12	81.57	1.471	34	50
24.47	28.25	32.35	37.08	40.23	42.59	48.89	55.98	63.85	71.73	81.18	1.472	36	53
24.08	27.86	31.96	36.68	39.83	42.19	48.50	55.58	63.46	71.33	80.78	1.474	38	56
22.10	25.88	29.98	34.71	37.86	40.22	46.52	53.61	61.48	69.36	78.81	1.479	48	71
22.65	26.43	30.53	35.26	38.41	40.77	47.07	54.16	62.04	69.91	79.36	1.489	45	67
16.67	20.47	24.58	29.31	32.47	34.83	41.14	48.23	56.11	63.99	73.44	1.493	75	112
25.97	29.75	33.85	38.58	41.73	44.09	50.39	57.47	65.35	73.22	82.68	1.500	28	42
25.58	29.36	33.46	38.18	41.33	43.69	49.99	57.08	64.96	72.83	82.28	1.500	30	45
25.18	28.97	33.06	37.79	40.94	43.30	49.60	56.69	64.56	72.44	81.89	1.500	32	48
23.60	27.38	31.48	36.21	39.36	41.72	48.02	55.11	62.98	70.86	80.31	1.500	40	60
23.20	26.99	31.08	35.81	38.96	41.32	47.63	54.71	62.59	70.46	79.92	1.500	42	63
21.62	25.40	29.50	34.23	37.38	39.74	46.05	53.13	61.01	68.89	78.34	1.500	50	75
19.63	23.42	27.52	32.25	35.40	37.76	44.07	51.16	59.04	66.91	76.36	1.500	60	90
20.98	24.77	28.87	33.60	36.75	39.11	45.41	52.50	60.38	68.25	77.71	1.509	53	80
26.53	30.31	34.40	39.13	42.28	44.64	50.94	58.03	65.90	73.78	83.23	1.520	25	38
27.08	30.86	34.95	39.68	42.83	45.19	51.49	58.58	66.45	74.33	83.78	1.545	22	34
24.23	28.01	32.11	36.84	39.99	42.35	48.65	55.74	63.61	71.49	80.94	1.556	36	56
24.63	28.41	32.51	37.23	40.38	42.74	49.04	56.13	64.01	71.88	81.33	1.559	34	53
25.02	28.80	32.90	37.63	40.78	43.14	49.44	56.53	64.40	72.28	81.73	1.563	32	50
21.77	25.55	29.65	34.38	37.54	39.90	46.20	53.29	61.17	69.04	78.49	1.563	48	75
23.36	27.14	31.24	35.97	39.12	41.48	47.78	54.87	62.74	70.62	80.07	1.575	40	63
16.96	20.76	24.88	29.61	32.77	35.14	41.44	48.54	56.42	64.30	73.75	1.577	71	112
22.32	26.11	30.21	34.94	38.09	40.45	46.75	53.84	61.72	69.59	79.05	1.578	45	71
23.75	27.54	31.63	36.36	39.51	41.87	48.18	55.26	63.14	71.01	80.47	1.579	38	60
22.88	26.66	30.76	35.49	38.64	41.00	47.31	54.39	62.27	70.15	79.60	1.595	42	67
26.37	30.15	34.24	38.97	42.12	44.48	50.78	57.87	65.74	73.62	83.07	1.600	25	40
25.34	29.12	33.22	37.94	41.09	43.45	49.76	56.84	64.72	72.59	82.04	1.600	30	48
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*		

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
50	5.013	80	8.020	1.600				7.25	9.33	11.71	13.30	14.88	18.05
28	2.807	45	4.511	1.607	6.80	8.38	9.97	11.86	13.91	16.28	17.85	19.43	22.58
56	5.614	90	9.023	1.607					8.01	10.41	12.00	13.59	16.76
22	2.206	36	3.609	1.636	8.00	9.58	11.16	13.05	15.10	17.46	19.04	20.62	23.77
34	3.409	56	5.614	1.647	5.40	7.00	8.59	10.50	12.55	14.92	16.50	18.07	21.23
32	3.208	53	5.314	1.656	5.81	7.41	9.00	10.90	12.95	15.32	16.89	18.47	21.63
38	3.810	63	6.316	1.658					9.61	11.66	14.04	15.62	17.20
30	3.008	50	5.013	1.667	6.22	7.81	9.40	11.30	13.35	15.71	17.29	18.87	22.02
36	3.609	60	6.015	1.667		6.50	8.10	10.01	12.07	14.44	16.02	17.60	20.75
45	4.511	75	7.519	1.667				8.05	10.12	12.51	14.09	15.67	18.84
48	4.812	80	8.020	1.667				7.39	9.47	11.86	13.45	15.03	18.20
67	6.717	112	11.229	1.672								10.87	14.07
40	4.010	67	6.717	1.675			7.20	9.11	11.18	13.55	15.13	16.72	19.87
25	2.506	42	4.211	1.680	7.27	8.86	10.44	12.34	14.38	16.75	18.32	19.90	23.05
42	4.211	71	7.118	1.690			6.69	8.62	10.69	13.07	14.65	16.23	19.39
53	5.314	90	9.023	1.698					8.21	10.62	12.22	13.81	16.98
28	2.807	48	4.812	1.714	6.54	8.13	9.71	11.61	13.66	16.03	17.61	19.18	22.34
22	2.206	38	3.810	1.727	7.83	9.42	11.00	12.89	14.94	17.30	18.88	20.45	23.61
32	3.208	56	5.614	1.750	5.54	7.14	8.74	10.64	12.70	15.07	16.65	18.23	21.38
36	3.609	63	6.316	1.750		6.23	7.84	9.75	11.81	14.19	15.77	17.35	20.51
80	8.020	140	14.036	1.750									
38	3.810	67	6.717	1.763			7.34	9.26	11.32	13.70	15.28	16.86	20.02
34	3.409	60	6.015	1.765		6.65	8.25	10.15	12.21	14.59	16.17	17.75	20.90
30	3.008	53	5.314	1.767	5.95	7.55	9.14	11.04	13.10	15.47	17.04	18.62	21.78
40	4.010	71	7.118	1.775			6.83	8.76	10.83	13.21	14.80	16.38	19.54
45	4.511	80	8.020	1.778				7.59	9.68	12.08	13.67	15.25	18.42
63	6.316	112	11.229	1.778							9.52	11.14	14.35
28	2.807	50	5.013	1.786	6.36	7.96	9.54	11.44	13.50	15.86	17.44	19.02	22.18
42	4.211	75	7.519	1.786				8.26	10.34	12.72	14.31	15.90	19.06
25	2.506	45	4.511	1.800	7.02	8.61	10.19	12.09	14.14	16.50	18.08	19.66	22.81
50	5.013	90	9.023	1.800					8.42	10.84	12.43	14.03	17.20
22	2.206	40	4.010	1.818	7.66	9.25	10.83	12.73	14.78	17.14	18.72	20.29	23.45
34	3.409	63	6.316	1.853		6.37	7.98	9.90	11.96	14.33	15.92	17.50	20.66
36	3.609	67	6.717	1.861		5.86	7.48	9.40	11.47	13.85	15.43	17.01	20.18
30	3.008	56	5.614	1.867	5.68	7.29	8.88	10.79	12.85	15.22	16.80	18.38	21.53
60	6.015	112	11.229	1.867							9.73	11.35	14.57
75	7.519	140	14.036	1.867									
38	3.810	71	7.118	1.868			6.97	8.90	10.98	13.36	14.95	16.53	19.69
32	3.208	60	6.015	1.875	5.16	6.79	8.39	10.30	12.36	14.73	16.32	17.90	21.05
40	4.010	75	7.519	1.875			6.46	8.40	10.48	12.87	14.46	16.04	19.21
48	4.812	90	9.023	1.875					8.56	10.98	12.58	14.17	17.35
28	2.807	53	5.314	1.893	6.09	7.69	9.29	11.19	13.25	15.62	17.20	18.77	21.93
42	4.211	80	8.020	1.905				7.80	9.89	12.29	13.88	15.47	18.64
22	2.206	42	4.211	1.909	7.49	9.08	10.66	12.56	14.61	16.98	18.55	20.13	23.28
25	2.506	48	4.812	1.920	6.75	8.35	9.94	11.84	13.89	16.26	17.84	19.41	22.57
32	3.208	63	6.316	1.969		6.51	8.12	10.04	12.10	14.48	16.06	17.65	20.81
34	3.409	67	6.717	1.971		5.99	7.62	9.54	11.61	13.99	15.58	17.16	20.32
36	3.609	71	7.118	1.972			7.11	9.04	11.12	13.51	15.09	16.68	19.84
71	7.118	140	14.036	1.972									11.19
38	3.810	75	7.519	1.974			6.59	8.54	10.62	13.01	14.60	16.19	19.36
25	2.506	50	5.013	2.000	6.57	8.17	9.76	11.67	13.72	16.09	17.67	19.25	22.40
28	2.807	56	5.614	2.000	5.82	7.43	9.03	10.94	13.00	15.37	16.95	18.53	21.69
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.



# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
21.21	24.99	29.10	33.83	36.98	39.34	45.64	52.73	60.61	68.49	77.94	1.600	50	80
25.73	29.52	33.61	38.34	41.49	43.85	50.15	57.24	65.11	72.99	82.44	1.607	28	45
19.93	23.72	27.82	32.55	35.71	38.07	44.38	51.47	59.34	67.22	76.68	1.607	56	90
26.92	30.70	34.80	39.52	42.67	45.03	51.33	58.42	66.29	74.17	83.62	1.636	22	36
24.38	28.17	32.26	36.99	40.14	42.50	48.81	55.89	63.77	71.64	81.10	1.647	34	56
24.78	28.56	32.66	37.39	40.54	42.90	49.20	56.29	64.16	72.04	81.49	1.656	32	53
23.51	27.29	31.39	36.12	39.27	41.63	47.94	55.02	62.90	70.78	80.23	1.658	38	63
25.18	28.96	33.06	37.78	40.93	43.29	49.60	56.68	64.56	72.43	81.88	1.667	30	50
23.91	27.69	31.79	36.52	39.67	42.03	48.33	55.42	63.29	71.17	80.62	1.667	36	60
22.00	25.78	29.88	34.61	37.77	40.13	46.43	53.52	61.40	69.28	78.73	1.667	45	75
21.36	25.15	29.25	33.98	37.13	39.49	45.80	52.89	60.77	68.64	78.10	1.667	48	80
17.25	21.06	25.17	29.92	33.07	35.44	41.75	48.84	56.73	64.61	74.06	1.672	67	112
23.03	26.82	30.92	35.64	38.80	41.16	47.46	54.55	62.43	70.30	79.75	1.675	40	67
26.21	29.99	34.08	38.81	41.96	44.32	50.62	57.71	65.58	73.46	82.91	1.680	25	42
22.55	26.34	30.44	35.17	38.32	40.68	46.98	54.07	61.95	69.83	79.28	1.690	42	71
20.15	23.94	28.05	32.78	35.94	38.30	44.61	51.70	59.58	67.45	76.91	1.698	53	90
25.49	29.27	33.37	38.10	41.25	43.61	49.91	57.00	64.87	72.75	82.20	1.714	28	48
26.76	30.54	34.64	39.36	42.51	44.87	51.17	58.26	66.14	74.01	83.46	1.727	22	38
24.54	28.32	32.42	37.15	40.30	42.66	48.96	56.05	63.92	71.80	81.25	1.750	32	56
23.66	27.45	31.55	36.27	39.43	41.79	48.09	55.18	63.06	70.93	80.38	1.750	36	63
13.84	17.70	21.84	26.60	29.77	32.14	38.46	45.57	53.46	61.34	70.80	1.750	80	140
23.18	26.97	31.07	35.80	38.95	41.31	47.61	54.70	62.58	70.46	79.91	1.763	38	67
24.06	27.84	31.94	36.67	39.82	42.18	48.49	55.57	63.45	71.33	80.78	1.765	34	60
24.93	28.72	32.81	37.54	40.69	43.05	49.36	56.44	64.32	72.19	81.65	1.767	30	53
22.70	26.49	30.59	35.32	38.47	40.84	47.14	54.23	62.11	69.98	79.43	1.775	40	71
21.58	25.37	29.48	34.21	37.36	39.72	46.03	53.12	61.00	68.88	78.33	1.778	45	80
17.54	21.35	25.47	30.22	33.37	35.74	42.05	49.15	57.03	64.91	74.37	1.778	63	112
25.33	29.11	33.21	37.94	41.09	43.45	49.75	56.84	64.71	72.59	82.04	1.786	28	50
22.22	26.01	30.11	34.84	38.00	40.36	46.66	53.75	61.63	69.51	78.96	1.786	42	75
25.96	29.75	33.84	38.57	41.72	44.08	50.38	57.47	65.35	73.22	82.67	1.800	25	45
20.37	24.17	28.28	33.01	36.17	38.53	44.84	51.93	59.81	67.69	77.14	1.800	50	90
26.60	30.38	34.48	39.20	42.35	44.71	51.01	58.10	65.98	73.85	83.30	1.818	22	40
23.81	27.60	31.70	36.43	39.58	41.94	48.25	55.33	63.21	71.09	80.54	1.853	34	63
23.33	27.12	31.22	35.95	39.10	41.47	47.77	54.86	62.74	70.61	80.06	1.861	36	67
24.69	28.47	32.57	37.30	40.45	42.81	49.12	56.20	64.08	71.96	81.41	1.867	30	56
17.76	21.57	25.69	30.44	33.60	35.97	42.28	49.38	57.26	65.14	74.60	1.867	60	112
14.19	18.05	22.20	26.97	30.14	32.51	38.84	45.95	53.84	61.72	71.19	1.867	75	140
22.85	26.64	30.74	35.47	38.63	40.99	47.29	54.38	62.26	70.14	79.59	1.868	38	71
24.21	28.00	32.10	36.82	39.98	42.34	48.64	55.73	63.61	71.48	80.93	1.875	32	60
22.37	26.16	30.26	35.00	38.15	40.51	46.82	53.91	61.79	69.66	79.12	1.875	40	75
20.52	24.32	28.43	33.16	36.32	38.68	44.99	52.08	59.96	67.84	77.30	1.875	48	90
25.09	28.87	32.97	37.70	40.85	43.21	49.51	56.60	64.47	72.35	81.80	1.893	28	53
21.81	25.60	29.70	34.44	37.59	39.95	46.26	53.35	61.23	69.11	78.56	1.905	42	80
26.44	30.22	34.32	39.04	42.19	44.55	50.86	57.94	65.82	73.69	83.14	1.909	22	42
25.72	29.50	33.60	38.33	41.48	43.84	50.14	57.23	65.11	72.98	82.43	1.920	25	48
23.96	27.75	31.85	36.58	39.73	42.10	48.40	55.49	63.37	71.24	80.69	1.969	32	63
23.48	27.27	31.37	36.10	39.26	41.62	47.92	55.01	62.89	70.77	80.22	1.971	34	67
23.00	26.79	30.90	35.63	38.78	41.14	47.45	54.54	62.42	70.29	79.75	1.972	36	71
14.47	18.33	22.49	27.26	30.43	32.81	39.14	46.25	54.14	62.03	71.49	1.972	71	140
22.52	26.31	30.42	35.15	38.30	40.66	46.97	54.06	61.94	69.82	79.27	1.974	38	75
25.56	29.34	33.44	38.17	41.32	43.68	49.98	57.07	64.95	72.82	82.28	2.000	25	50
24.84	28.63	32.73	37.45	40.61	42.97	49.27	56.36	64.24	72.11	81.56	2.000	28	56
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*		

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
30	3.008	60	6.015	2.000	5.30	6.92	8.53	10.44	12.51	14.88	16.46	18.05	21.21
40	4.010	80	8.020	2.000				7.94	10.04	12.43	14.03	15.62	18.79
45	4.511	90	9.023	2.000					8.76	11.19	12.79	14.39	17.57
56	5.614	112	11.229	2.000							9.99	11.63	14.85
22	2.206	45	4.511	2.045	7.23	8.82	10.41	12.31	14.36	16.73	18.31	19.89	23.04
36	3.609	75	7.519	2.083			6.72	8.68	10.77	13.16	14.75	16.34	19.51
34	3.409	71	7.118	2.088			7.24	9.18	11.26	13.65	15.24	16.82	19.99
67	6.717	140	14.036	2.090									11.46
32	3.208	67	6.717	2.094		6.13	7.76	9.69	11.76	14.14	15.73	17.31	20.47
30	3.008	63	6.316	2.100		6.65	8.26	10.18	12.25	14.63	16.21	17.80	20.96
38	3.810	80	8.020	2.105				8.07	10.18	12.58	14.17	15.76	18.94
53	5.314	112	11.229	2.113							10.20	11.83	15.06
25	2.506	53	5.314	2.120	6.30	7.91	9.50	11.41	13.47	15.84	17.42	19.00	22.16
28	2.807	60	6.015	2.143	5.43	7.06	8.67	10.59	12.65	15.03	16.61	18.20	21.36
42	4.211	90	9.023	2.143					8.97	11.40	13.00	14.60	17.79
22	2.206	48	4.812	2.182	6.97	8.56	10.15	12.06	14.11	16.48	18.06	19.64	22.80
34	3.409	75	7.519	2.206			6.86	8.82	10.91	13.30	14.90	16.48	19.65
32	3.208	71	7.118	2.219		5.73	7.38	9.32	11.41	13.80	15.39	16.97	20.14
36	3.609	80	8.020	2.222				8.21	10.31	12.72	14.32	15.91	19.08
63	6.316	140	14.036	2.222									11.72
30	3.008	67	6.717	2.233		6.26	7.89	9.83	11.90	14.29	15.87	17.46	20.62
25	2.506	56	5.614	2.240	6.02	7.64	9.24	11.15	13.22	15.59	17.17	18.75	21.91
50	5.013	112	11.229	2.240						8.73	10.40	12.03	15.27
28	2.807	63	6.316	2.250	5.13	6.78	8.40	10.33	12.40	14.78	16.36	17.94	21.11
40	4.010	90	9.023	2.250				6.95	9.10	11.54	13.14	14.75	17.93
80	8.020	180	18.046	2.250									
22	2.206	50	5.013	2.273	6.78	8.39	9.98	11.89	13.94	16.31	17.90	19.47	22.63
48	4.812	112	11.229	2.333						8.86	10.53	12.17	15.41
60	6.015	140	14.036	2.333									11.92
32	3.208	75	7.519	2.344			6.99	8.95	11.05	13.45	15.04	16.63	19.80
34	3.409	80	8.020	2.353			6.35	8.34	10.45	12.86	14.46	16.05	19.23
30	3.008	71	7.118	2.367		5.86	7.51	9.46	11.55	13.94	15.53	17.12	20.29
38	3.810	90	9.023	2.368				7.08	9.24	11.67	13.28	14.89	18.08
28	2.807	67	6.717	2.393		6.39	8.03	9.97	12.05	14.43	16.02	17.61	20.77
25	2.506	60	6.015	2.400	5.63	7.27	8.88	10.80	12.87	15.25	16.84	18.42	21.58
75	7.519	180	18.046	2.400									
22	2.206	53	5.314	2.409	6.51	8.12	9.72	11.63	13.69	16.06	17.65	19.23	22.38
45	4.511	112	11.229	2.489						9.05	10.73	12.37	15.62
30	3.008	75	7.519	2.500			7.12	9.09	11.19	13.59	15.18	16.78	19.95
32	3.208	80	8.020	2.500			6.48	8.48	10.59	13.00	14.60	16.20	19.38
36	3.609	90	9.023	2.500				7.20	9.37	11.81	13.43	15.03	18.22
56	5.614	140	14.036	2.500									12.18
25	2.506	63	6.316	2.520	5.33	6.98	8.61	10.54	12.61	15.00	16.58	18.17	21.33
71	7.118	180	18.046	2.535									
28	2.807	71	7.118	2.536		5.99	7.65	9.60	11.69	14.08	15.68	17.27	20.44
22	2.206	56	5.614	2.545	6.22	7.85	9.45	11.37	13.43	15.81	17.39	18.98	22.14
53	5.314	140	14.036	2.642									12.37
34	3.409	90	9.023	2.647				7.33	9.50	11.95	13.56	15.17	18.37
30	3.008	80	8.020	2.667			6.61	8.61	10.73	13.14	14.75	16.34	19.52
42	4.211	112	11.229	2.667						9.24	10.92	12.58	15.83
28	2.807	75	7.519	2.679			7.25	9.23	11.33	13.73	15.33	16.92	20.10
25	2.506	67	6.717	2.680		6.59	8.24	10.18	12.26	14.65	16.24	17.83	21.00
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
24.36	28.15	32.25	36.98	40.13	42.49	48.80	55.88	63.76	71.64	81.09	2.000	30	60
21.96	25.75	29.85	34.59	37.74	40.11	46.41	53.50	61.38	69.26	78.72	2.000	40	80
20.74	24.54	28.65	33.39	36.55	38.91	45.22	52.31	60.19	68.07	77.53	2.000	45	90
18.05	21.87	25.99	30.74	33.90	36.27	42.58	49.68	57.57	65.45	74.91	2.000	56	112
26.19	29.98	34.07	38.80	41.95	44.31	50.62	57.70	65.58	73.46	82.91	2.045	22	45
22.67	26.46	30.57	35.30	38.46	40.82	47.12	54.21	62.09	69.97	79.43	2.083	36	75
23.15	26.94	31.05	35.78	38.93	41.30	47.60	54.69	62.57	70.45	79.90	2.088	34	71
14.74	18.61	22.78	27.55	30.73	33.10	39.44	46.55	54.44	62.33	71.80	2.090	67	140
23.63	27.42	31.53	36.26	39.41	41.77	48.08	55.17	63.05	70.92	80.38	2.094	32	67
24.12	27.90	32.00	36.73	39.89	42.25	48.55	55.64	63.52	71.40	80.85	2.100	30	63
22.10	25.90	30.00	34.74	37.90	40.26	46.57	53.66	61.54	69.42	78.87	2.105	38	80
18.26	22.08	26.21	30.96	34.12	36.49	42.81	49.91	57.80	65.68	75.14	2.113	53	112
25.31	29.10	33.20	37.93	41.08	43.44	49.74	56.83	64.71	72.58	82.04	2.120	25	53
24.51	28.30	32.40	37.13	40.28	42.65	48.95	56.04	63.92	71.79	81.25	2.143	28	60
20.96	24.76	28.88	33.61	36.77	39.14	45.45	52.54	60.42	68.30	77.76	2.143	42	90
25.95	29.73	33.83	38.56	41.71	44.07	50.38	57.46	65.34	73.22	82.67	2.182	22	48
22.82	26.61	30.72	35.45	38.61	40.97	47.28	54.37	62.25	70.13	79.58	2.206	34	75
23.30	27.09	31.20	35.93	39.09	41.45	47.75	54.85	62.72	70.60	80.06	2.219	32	71
22.25	26.05	30.16	34.89	38.05	40.41	46.72	53.81	61.69	69.57	79.03	2.222	36	80
15.01	18.89	23.06	27.84	31.02	33.40	39.73	46.85	54.74	62.64	72.10	2.222	63	140
23.78	27.57	31.68	36.41	39.56	41.93	48.23	55.32	63.20	71.08	80.53	2.233	30	67
25.07	28.86	32.96	37.69	40.84	43.20	49.50	56.59	64.47	72.35	81.80	2.240	25	56
18.48	22.30	26.43	31.18	34.35	36.72	43.04	50.14	58.03	65.91	75.37	2.240	50	112
24.27	28.05	32.16	36.89	40.04	42.40	48.71	55.80	63.68	71.55	81.01	2.250	28	63
21.11	24.91	29.03	33.77	36.92	39.29	45.60	52.69	60.58	68.46	77.91	2.250	40	90
	13.89	18.20	23.08	26.29	28.69	35.07	42.22	50.14	58.05	67.53	2.250	80	180
25.79	29.57	33.67	38.40	41.55	43.91	50.22	57.30	65.18	73.06	82.51	2.273	22	50
18.62	22.45	26.58	31.33	34.50	36.87	43.19	50.29	58.18	66.06	75.52	2.333	48	112
15.22	19.10	23.28	28.06	31.24	33.62	39.96	47.07	54.97	62.86	72.33	2.333	60	140
22.97	26.76	30.87	35.60	38.76	41.12	47.43	54.52	62.40	70.28	79.74	2.344	32	75
22.40	26.20	30.31	35.04	38.20	40.56	46.87	53.96	61.85	69.73	79.18	2.353	34	80
23.45	27.24	31.35	36.08	39.24	41.60	47.91	55.00	62.88	70.76	80.21	2.367	30	71
21.26	25.06	29.17	33.92	37.07	39.44	45.75	52.85	60.73	68.61	78.07	2.368	38	90
23.93	27.73	31.83	36.56	39.72	42.08	48.39	55.48	63.35	71.23	80.69	2.393	28	67
24.74	28.53	32.63	37.36	40.51	42.88	49.18	56.27	64.15	72.03	81.48	2.400	25	60
	14.21	18.54	23.42	26.64	29.05	35.43	42.59	50.51	58.42	67.91	2.400	75	180
25.54	29.33	33.43	38.16	41.31	43.67	49.97	57.06	64.94	72.82	82.27	2.409	22	53
18.83	22.66	26.80	31.55	34.72	37.09	43.41	50.52	58.41	66.29	75.75	2.489	45	112
23.12	26.91	31.02	35.76	38.91	41.28	47.58	54.68	62.56	70.44	79.89	2.500	30	75
22.55	26.35	30.46	35.19	38.35	40.72	47.02	54.12	62.00	69.88	79.34	2.500	32	80
21.40	25.21	29.32	34.07	37.23	39.59	45.90	53.00	60.88	68.77	78.22	2.500	36	90
15.49	19.38	23.56	28.35	31.53	33.91	40.25	47.37	55.27	63.17	72.63	2.500	56	140
24.49	28.28	32.39	37.12	40.27	42.63	48.94	56.03	63.91	71.79	81.24	2.520	25	63
	14.47	18.81	23.70	26.92	29.33	35.72	42.88	50.81	58.72	68.21	2.535	71	180
23.60	27.40	31.50	36.24	39.39	41.75	48.06	55.15	63.03	70.91	80.37	2.536	28	71
25.30	29.08	33.18	37.91	41.07	43.43	49.73	56.82	64.70	72.58	82.03	2.545	22	56
15.69	19.59	23.77	28.56	31.75	34.13	40.47	47.59	55.50	63.39	72.86	2.642	53	140
21.55	25.36	29.47	34.22	37.38	39.74	46.06	53.15	61.04	68.92	78.38	2.647	34	90
22.70	26.50	30.61	35.34	38.50	40.87	47.18	54.27	62.15	70.03	79.49	2.667	30	80
19.04	22.88	27.02	31.77	34.94	37.31	43.64	50.74	58.63	66.52	75.98	2.667	42	112
23.27	27.06	31.17	35.91	39.06	41.43	47.74	54.83	62.71	70.59	80.05	2.679	28	75
24.16	27.95	32.06	36.79	39.95	42.31	48.62	55.71	63.59	71.47	80.92	2.680	25	67
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*		

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches									
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth	
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)											
67	6.717	180	18.046	2.687										
22	2.206	60	6.015	2.727	5.83	7.47	9.09	11.02	13.09	15.47	17.06	18.64	21.81	
40	4.010	112	11.229	2.800						9.37	11.06	12.71	15.97	
50	5.013	140	14.036	2.800									12.56	
80	8.020	224	22.457	2.800										
32	3.208	90	9.023	2.813				7.46	9.64	12.09	13.70	15.31	18.51	
25	2.506	71	7.118	2.840		6.18	7.85	9.81	11.90	14.30	15.89	17.48	20.66	
28	2.807	80	8.020	2.857			6.74	8.75	10.87	13.28	14.89	16.49	19.67	
63	6.316	180	18.046	2.857										
22	2.206	63	6.316	2.864	5.52	7.19	8.82	10.75	12.83	15.21	16.80	18.39	21.55	
48	4.812	140	14.036	2.917									12.69	
38	3.810	112	11.229	2.947						9.50	11.19	12.84	16.10	
75	7.519	224	22.457	2.987										
25	2.506	75	7.519	3.000		5.75	7.45	9.43	11.54	13.95	15.54	17.14	20.32	
30	3.008	90	9.023	3.000				7.59	9.77	12.22	13.84	15.45	18.65	
60	6.015	180	18.046	3.000										
22	2.206	67	6.717	3.045	5.08	6.79	8.44	10.39	12.47	14.87	16.46	18.05	21.22	
36	3.609	112	11.229	3.111						9.63	11.32	12.98	16.24	
45	4.511	140	14.036	3.111									12.89	
71	7.118	224	22.457	3.155										
25	2.506	80	8.020	3.200			6.93	8.94	11.07	13.50	15.10	16.70	19.89	
28	2.807	90	9.023	3.214				7.71	9.90	12.36	13.98	15.59	18.80	
56	5.614	180	18.046	3.214										
22	2.206	71	7.118	3.227		6.37	8.05	10.01	12.11	14.51	16.11	17.70	20.88	
34	3.409	112	11.229	3.294						9.75	11.45	13.11	16.38	
42	4.211	140	14.036	3.333								9.57	13.08	
67	6.717	224	22.457	3.343										
53	5.314	180	18.046	3.396										
22	2.206	75	7.519	3.409		5.93	7.65	9.63	11.75	14.16	15.76	17.35	20.53	
32	3.208	112	11.229	3.500						9.88	11.58	13.24	16.52	
40	4.010	140	14.036	3.500								9.69	13.21	
63	6.316	224	22.457	3.556										
25	2.506	90	9.023	3.600				7.90	10.10	12.57	14.19	15.80	19.01	
50	5.013	180	18.046	3.600										
22	2.206	80	8.020	3.636			7.12	9.14	11.28	13.70	15.31	16.91	20.10	
38	3.810	140	14.036	3.684								9.81	13.34	
30	3.008	112	11.229	3.733						10.01	11.71	13.38	16.65	
60	6.015	224	22.457	3.733										
48	4.812	180	18.046	3.750										
36	3.609	140	14.036	3.889								9.93	13.46	
28	2.807	112	11.229	4.000					7.43	10.13	11.84	13.51	16.79	
45	4.511	180	18.046	4.000										
56	5.614	224	22.457	4.000										
22	2.206	90	9.023	4.091			5.92	8.09	10.30	12.77	14.40	16.01	19.22	
34	3.409	140	14.036	4.118								10.05	13.59	
53	5.314	224	22.457	4.226										
42	4.211	180	18.046	4.286										
32	3.208	140	14.036	4.375								10.17	13.72	
25	2.506	112	11.229	4.480					7.61	10.32	12.03	13.71	16.99	
50	5.013	224	22.457	4.480										
40	4.010	180	18.046	4.500										
30	3.008	140	14.036	4.667								10.29	13.85	
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10	

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.



# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
24.97	14.72	19.07	23.97	27.20	29.61	36.01	43.17	51.10	59.02	68.51	2.687	67	180
19.19	28.76	32.86	37.59	40.74	43.11	49.41	56.50	64.38	72.26	81.71	2.727	22	60
15.89	23.02	27.16	31.92	35.09	37.46	43.79	50.89	58.79	66.67	76.14	2.800	40	112
	19.80	23.98	28.78	31.97	34.35	40.69	47.82	55.72	63.62	73.09	2.800	50	140
21.69	25.50	29.62	34.37	37.53	39.89	46.21	53.30	61.19	69.07	78.53	2.813	80	224
23.82	27.62	31.73	36.46	39.62	41.98	48.29	55.38	63.26	71.14	80.60	2.840	32	90
22.84	26.64	30.76	35.50	38.65	41.02	47.33	54.42	62.31	70.19	79.64	2.857	25	71
	14.98	19.34	24.25	27.48	29.89	36.30	43.46	51.40	59.32	68.81	2.857	28	80
24.72	28.51	32.61	37.35	40.50	42.86	49.17	56.26	64.14	72.02	81.47	2.864	63	180
16.02	19.94	24.12	28.92	32.11	34.49	40.84	47.96	55.87	63.77	73.24	2.917	22	63
19.33	23.17	27.31	32.07	35.24	37.61	43.94	51.04	58.94	66.83	76.29	2.947	48	140
			19.07	22.45	24.93	31.47	38.72	46.72	54.69	64.21	2.987	38	112
23.49	27.29	31.40	36.13	39.29	41.66	47.97	55.06	62.94	70.82	80.28	3.000	75	224
21.84	25.65	29.77	34.51	37.68	40.04	46.36	53.46	61.34	69.23	78.68	3.000	25	75
	15.17	19.54	24.45	27.69	30.10	36.51	43.68	51.62	59.54	69.03	3.000	30	90
			19.07	22.45	24.93	31.47	38.72	46.72	54.69	64.21	3.000	60	180
24.38	28.18	32.28	37.02	40.17	42.54	48.84	55.94	63.82	71.70	81.15	3.045	22	67
19.47	23.31	27.45	32.22	35.39	37.76	44.09	51.19	59.09	66.98	76.44	3.111	36	112
16.22	20.14	24.34	29.14	32.33	34.71	41.06	48.19	56.10	64.00	73.47	3.111	45	140
			19.32	22.71	25.20	31.75	39.01	47.01	54.98	64.51	3.155	71	224
23.06	26.87	30.98	35.72	38.88	41.25	47.56	54.65	62.54	70.42	79.88	3.200	25	80
21.98	25.80	29.92	34.66	37.83	40.19	46.51	53.61	61.50	69.38	78.84	3.214	28	90
	15.42	19.80	24.73	27.97	30.38	36.80	43.97	51.91	59.83	69.33	3.214	56	180
24.05	27.84	31.95	36.69	39.85	42.21	48.52	55.61	63.49	71.37	80.83	3.227	22	71
			19.58	22.97	25.47	32.02	39.29	47.30	55.27	64.80	3.294	34	112
19.61	23.45	27.60	32.36	35.53	37.91	44.24	51.34	59.24	67.13	76.59	3.333	42	140
16.42	20.35	24.55	29.35	32.54	34.93	41.28	48.41	56.32	64.22	73.70	3.333	67	224
			19.58	22.97	25.47	32.02	39.29	47.30	55.27	64.80	3.343	53	180
	15.61	20.00	24.93	28.18	30.59	37.01	44.18	52.13	60.06	69.55	3.396	22	75
23.71	27.51	31.62	36.36	39.52	41.88	48.19	55.29	63.17	71.05	80.51	3.409	32	112
19.75	23.59	27.74	32.51	35.68	38.05	44.38	51.49	59.39	67.28	76.75	3.500	40	140
16.56	20.49	24.69	29.49	32.69	35.07	41.43	48.56	56.47	64.37	73.85	3.500	63	224
			19.83	23.23	25.73	32.29	39.57	47.58	55.55	65.09	3.556	25	90
22.20	26.02	30.14	34.89	38.05	40.42	46.74	53.84	61.72	69.61	79.07	3.600	50	180
	15.80	20.20	25.13	28.38	30.80	37.22	44.40	52.35	60.28	69.77	3.600	22	80
23.28	27.09	31.20	35.95	39.11	41.47	47.79	54.88	62.77	70.65	80.11	3.636	38	140
16.69	20.62	24.83	29.64	32.83	35.22	41.57	48.71	56.62	64.52	74.00	3.684	30	112
19.89	23.74	27.88	32.65	35.83	38.20	44.53	51.64	59.54	67.43	76.90	3.733	60	224
			14.63	20.02	23.43	25.93	32.50	39.78	47.79	55.77	3.733	48	180
	15.93	20.33	25.27	28.52	30.94	37.36	44.55	52.49	60.42	69.92	3.750	36	140
16.82	20.76	24.97	29.78	32.97	35.36	41.72	48.85	56.77	64.67	74.15	3.889	28	112
			14.63	20.02	23.43	25.93	32.50	39.78	47.79	55.77	4.000	45	180
20.03	23.88	28.03	32.80	35.97	38.35	44.68	51.79	59.69	67.58	77.05	4.000	56	224
11.77	16.12	20.53	25.47	28.73	31.15	37.58	44.76	52.71	60.65	70.15	4.000	22	90
		14.87	20.27	23.68	26.19	32.77	40.05	48.08	56.06	65.60	4.091	34	140
22.42	26.23	30.36	35.11	38.27	40.64	46.96	54.06	61.95	69.84	79.30	4.118	53	224
16.95	20.89	25.10	29.92	33.12	35.51	41.87	49.00	56.92	64.82	74.30	4.226	42	180
		15.04	20.46	23.88	26.39	32.97	40.26	48.29	56.27	65.82	4.286	32	140
11.95	16.30	20.72	25.68	28.93	31.36	37.79	44.98	52.93	60.87	70.37	4.375	25	112
17.09	21.03	25.24	30.06	33.26	35.65	42.01	49.15	57.06	64.97	74.45	4.480	40	180
			15.22	20.65	24.07	26.59	33.18	40.47	48.50	56.49	4.480	50	224
20.24	24.09	28.25	33.02	36.19	38.57	44.91	52.02	59.92	67.81	77.28	4.500	40	180
			15.22	20.65	24.07	26.59	33.18	40.47	48.50	56.49	4.667	30	140
12.07	16.43	20.85	25.81	29.07	31.50	37.93	45.12	53.08	61.01	70.52			
17.22	21.17	25.38	30.20	33.40	35.79	42.16	49.29	57.21	65.12	74.60			
	1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53	Length Factor*	

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

## Table No. 5 Drive Selection Table

### 8mm PITCH BELTS

Sprocket Combinations				Speed Ratio	Center Distance, Inches								
DriveR		DriveN			8MGT-640 P.L. 25.20 80 teeth	8MGT-720 P.L. 28.35 90 teeth	8MGT-800 P.L. 31.50 100 teeth	8MGT-896 P.L. 35.28 112 teeth	8MGT-1000 P.L. 39.37 125 teeth	8MGT-1120 P.L. 44.09 140 teeth	8MGT-1200 P.L. 47.24 150 teeth	8MGT-1280 P.L. 50.39 160 teeth	8MGT-1440 P.L. 56.69 180 teeth
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)										
48	4.812	224	22.457	4.667									
38	3.810	180	18.046	4.737									
45	4.511	224	22.457	4.978									
28	2.807	140	14.036	5.000							10.41	13.97	
36	3.609	180	18.046	5.000									
22	2.206	112	11.229	5.091				7.78	10.51	12.23	13.90	17.20	
34	3.409	180	18.046	5.294									
42	4.211	224	22.457	5.333									
25	2.506	140	14.036	5.600						8.61	10.59	14.16	
40	4.010	224	22.457	5.600									
32	3.208	180	18.046	5.625									
38	3.810	224	22.457	5.895									
30	3.008	180	18.046	6.000									
36	3.609	224	22.457	6.222									
22	2.206	140	14.036	6.364						8.78	10.77	14.35	
28	2.807	180	18.046	6.429									
34	3.409	224	22.457	6.588									
32	3.208	224	22.457	7.000									
25	2.506	180	18.046	7.200									
30	3.008	224	22.457	7.467									
28	2.807	224	22.457	8.000									
22	2.206	180	18.046	8.182									
25	2.506	224	22.457	8.960									
22	2.206	224	22.457	10.182									
Length Factor*					0.79	0.83	0.87	0.91	0.96	1.00	1.03	1.05	1.10

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.

# 8mm PITCH BELTS

Center Distance, Inches											Speed Ratio	Sprocket Combinations	
												DriveR	DriveN
8MGT-1600 P.L 62.99 200 teeth	8MGT-1792 P.L 70.55 224 teeth	8MGT-2000 P.L 78.74 250 teeth	8MGT-2240 P.L 88.19 280 teeth	8MGT-2400 P.L 94.49 300 teeth	8MGT-2520 P.L 99.21 315 teeth	8MGT-2840 P.L 111.81 355 teeth	8MGT-3200 P.L 125.98 400 teeth	8MGT-3600 P.L 141.73 450 teeth	8MGT-4000 P.L 157.48 500 teeth	8MGT-4480 P.L 176.38 560 teeth		No. of grooves	No. of grooves
12.18	16.55	15.34 20.99 15.51	20.77 25.95 20.96	24.20 29.21 24.39	26.72 31.64 26.91	33.31 38.07 33.52	40.61 45.26 40.82	48.65 53.22 48.86	56.63 61.16 56.85	66.18 70.67 66.40	4.667 4.737 4.978	48 38 45	224 180 224
17.35	21.30	25.52 30.35	30.35 33.55	35.94 42.30	49.44 57.36	65.27 74.75	5.000 5.091 5.294 5.333	36 22 34 42	180 112 180 224				
12.30	16.68	21.12 28.46	26.08 33.24	29.34 36.41	31.77 38.79	38.21 45.13	45.41 52.24	53.37 60.14	61.31 68.04	70.81 77.51	5.600 5.625 5.895	25 40 32 38	140 224 180 224
12.42	16.80	21.25 15.69	26.22 21.15	29.48 24.59	31.91 27.11	38.35 33.72	45.55 41.03	53.51 49.07	61.45 57.06	70.96 66.62	6.000 6.222 6.364 6.429	30 36 22 28	180 224 140 180
17.55	21.51	25.73 15.81	30.56 21.28	33.76 24.72	36.15 27.24	42.52 33.85	49.66 41.17	57.58 49.21	65.49 57.21	74.98 66.76	7.200 7.467	25 30	140 224
12.53	16.93	21.38 15.92	26.35 21.40	29.62 24.84	32.05 27.37	38.49 33.99	45.69 41.30	53.66 49.35	61.60 57.35	71.11 66.91	6.588 7.000 7.200 7.467	34 32 25 30	224 224 180 224
12.65	17.05	21.51 16.04	26.48 21.52	29.75 24.97	32.19 27.50	38.64 34.12	45.84 41.44	53.80 49.49	61.75 57.49	71.26 67.05	8.000 8.182 8.960 10.182	28 22 25 22	224 180 224 224
17.74	21.71	25.94 17.18	30.77 21.64	33.97 29.89	36.37 32.32	42.74 38.78	49.88 45.98	57.81 53.95	65.72 61.89	75.20 71.41	8.000 8.182 8.960 10.182	28 22 25 22	224 180 224 224
12.94	17.36	16.16 16.27 21.83 16.39	21.65 21.77 26.82 21.90	25.10 25.23 30.09 25.36	27.63 27.76 32.53 27.89	34.26 34.39 38.99 34.53	41.58 41.72 46.19 41.85	49.63 49.77 54.17 49.91	57.64 57.78 62.11 57.92	67.20 67.34 71.63 67.49	8.000 8.182 8.960 10.182	28 22 25 22	224 180 224 224
13.12	17.55	16.51 22.02 16.68 16.85	22.02 27.02 22.21 22.39	25.48 30.30 25.68 25.87	28.02 32.74 28.22 28.41	34.66 39.20 34.86 35.06	41.99 46.41 42.20 42.40	50.06 54.38 50.27 50.48	58.06 62.33 58.28 58.49	67.63 71.85 67.85 68.07	10.182	28 22 25 22	224 180 224 224
1.14	1.18	1.22	1.26	1.29	1.31	1.36	1.40	1.45	1.49	1.53			

\*This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10 for additional details.