» V-BELT DRIVE SYSTEMS

» Improve your efficiency.
» Improve your productivity.
» Improve your bottom line.

RUN WITH US
Run with the best. Run with the original. Run with us.

Gates invented the V-belt nearly 100 years ago and we’ve never stopped innovating to make it better, stronger and more capable of handling the heat, chemicals and rigors of the real world. Today our V-belts cover wider power ranges and speeds while running more smoothly and quietly than any other belt on the market.

Running with Gates means running with the leader.

We keep your operations successful through:

**Innovation**

State of the art power transmission. From our technical innovation centers to our material development labs, Gates continues to be the worldwide innovation leader.

**Custom Solutions**

When standard products won’t work, Gates offers Made-To-Order belts, pulleys and metal to meet your unique drive requirements.

**Support**

Gates is ready and available to provide better solutions and assist with your drive challenges.

**Training**

We'll teach you how to install, maintain and get the most out of your belts.
EPDM V-BELT DRIVES
Your best defense against belt failure.

All Gates molded notch V-belts are better than ever thanks to the exclusive new EPDM construction. It’s the innovation you need in the V-belts you count on.

EPDM Molded Notch Belts:
Longer life in extreme conditions
70% Broader temperature range
3% Greater efficiency

Initial savings of $25,000 was reported by a customer using higher-heat tolerant EPDM belts for reduced maintenance, lower component costs and more uptime.

EPDM ADVANTAGES:
• Expanded temperature range resists heat and cracking
• Increased flexibility ideal for small diameter sheaves
• Reduced bending stress improves efficiency
• Flex-bonded tensile cords reduce the need to retension
• Precision-machined sidewalls reduce vibration and wear

Gates Molded Notch Solutions

SUPER HC® MOLDED NOTCH   Including 8VX cross-section
Transmit 3x more horsepower than classical belts in the same drive space.

TRI-POWER® MOLDED NOTCH
15% or greater horsepower rating than classical banded (wrapped) V-belts.

METRIC POWER™
For drives that require metric cross-sections, select from the vast size range of innovative Gates V-belts.
The Predator Drive System:
Reduce drive cost up to 35%
Reduce drive width up to 67%
Reduce drive weight up to 50%

Annual savings of $500,000 was reported by a customer using Predator belts. 30% less downtime. 15% longer belt life. Not just a good belt. Good economics.

Gates has taken belt technology to a new level with PowerBand V-belts. By permanently joining two or more belts at the top with a high-strength tie band, you get a belt that can withstand pulsating loads, shock loads or extreme vibrations.

Gates PowerBands are available for:

- **PREDATOR®**
- **SUPER HC®**
- **HI-POWER® II**
- **SUPER HC® MOLDED NOTCH**
Because every drive deserves a Gates belt.

With 100 years of continued innovation, you can be sure there’s a Gates belt for your need.

SPECIALTY BELTS
Drives come in all shapes, sizes and purposes. So do Gates V-belts.

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Good For</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWERBACK®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER CURVE®</td>
<td>Conveyors, applications of all speeds.</td>
</tr>
<tr>
<td>POWER ROUND®</td>
<td></td>
</tr>
<tr>
<td>DUBL-V</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POLYfLEx®</td>
<td>Higher speeds in less space. Unique 60° angle polyurethane construction transmits greater loads in small packages.</td>
</tr>
<tr>
<td>MICRO-V®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POLYFLEX®</td>
<td>Higher speeds in less space. Unique 60° angle polyurethane construction transmits greater loads in small packages.</td>
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<tr>
<td>POWER ROUND®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER BACK®</td>
<td>All industrial, wide speed-range, open pulley or enclosed device variable speed drives.</td>
</tr>
</tbody>
</table>

HIGH SPEED BELTS
The pulley diameters are small, but the Gates innovation is large.

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<tr>
<td>MICRO-V®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER CURVE®</td>
<td>Higher speeds on smaller diameter sheaves. Exclusive truncated (shortened) rib profile increases flexibility for improved performance.</td>
</tr>
<tr>
<td>POWER ROUND®</td>
<td></td>
</tr>
<tr>
<td>POLYFLEX®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER ROUND®</td>
<td></td>
</tr>
<tr>
<td>POWER BACK®</td>
<td></td>
</tr>
</tbody>
</table>

LIGHT DUTY BELTS
Low-power applications. High performance results.

<table>
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<th>Belt Type</th>
<th>Good For</th>
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<tbody>
<tr>
<td>POWERATED®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER CURVE®</td>
<td>Higher power, clutching, heavy shock-loaded and back-idler driven lawn and garden equipment.</td>
</tr>
<tr>
<td>POWER ROUND®</td>
<td></td>
</tr>
<tr>
<td>TRUfLEx®</td>
<td>GOOD FOR</td>
</tr>
<tr>
<td>POWER BACK®</td>
<td>Powered cultivators, lawn mowers, electrical household appliances and heating/air conditioning equipment.</td>
</tr>
</tbody>
</table>
V-BELT Characteristics Matrix

**SIZES**
LENGTH RANGE
24 to 660 in.
25 to 660 in.
22 to 660 in.

SINGLE STRANDS
Y
Y
Y

POWERBAND® (joined)
Y
Y
Y

LENGTH MATCHING
Match Number
V80
V80

**MATERIALS**
BODY
Chloroprene
Chloroprene
Diene

TENSILE CORD
Aramid
Polyester
Polyester

FABRIC WRAP
2 ply (clutching)
2 ply
1 or 2 ply

**ENVIRONMENT**
AMBIENT TEMPERATURE
-30° to +180° F
-30° to +180° F
-30° to +140° F

OIL RESISTANCE
Very Good
Very Good
Good

OZONE RESISTANCE
Very Good
Very Good
Good

STATIC CONDUCTIVE
N
Y
Y

**APPLICATION DESIGN FACTORS**
POWER CAPACITY
Excellent
Excellent
Good

PULSATING OR SHOCK LOADING
Excellent
Good
Good

SMALL PULLEY DIAMETERS
Good
Good
Very Good

MINIMAL PACKAGE SIZE
Excellent
Good
Good

BACKSIDE IDLERS
Good
Very Good
Very Good

MISALIGNMENT
Good
Very Good
Very Good

SERPENTINE LAYOUT
Good
Very Good
Very Good

QUARTER TURN LAYOUT
Excellent
Very Good
Very Good

MINIMAL TAKE-UP
Very Good
Good
Good

CLUTCHING
Y
N
N

SMOOTH RUNNING
Good
Good
Good

HIGH SPEEDS
Good
Good
Good

ENERGY EFFICIENCY
Good
Good
Good

DUST AND ABRASIVES
Excellent
Very Good
Very Good

STOCK SHEAVES AVAILABLE
Y
Y
Y
## Heavy-Duty

<table>
<thead>
<tr>
<th>BANDED (FABRIC WRAPPED)</th>
<th>BANDED (RAW EDGE-NOTCHED)</th>
<th>BANDEDLESS (RAW EDGE)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Super HC® Molded Notch</strong></td>
<td>3VX, 5VX, 8VX</td>
<td><strong>Predator®</strong></td>
</tr>
<tr>
<td><strong>Tri-Power®</strong></td>
<td>AX, BX, CX</td>
<td><strong>3VP , 5VP , 8VP</strong></td>
</tr>
<tr>
<td><strong>PowerRated®</strong></td>
<td>3L, 4L, 5L</td>
<td><strong>Super HC® Molded Notch</strong></td>
</tr>
<tr>
<td><strong>Truflex®</strong></td>
<td>2L, 3L, 4L, 5L</td>
<td><strong>3VX, 5VX, 8VX</strong></td>
</tr>
<tr>
<td><strong>Micro-V®</strong></td>
<td>J, L, M</td>
<td><strong>Hi-Power® II</strong></td>
</tr>
<tr>
<td><strong>Polyflex®</strong></td>
<td>3M, 5M, 7M, 11M</td>
<td><strong>AP , BP , CP</strong></td>
</tr>
<tr>
<td><strong>Hi-Power® II</strong></td>
<td>A, B, C, D, E</td>
<td><strong>Super HC® Molded Notch</strong></td>
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<td>3M, 5M, 7M, 11M</td>
<td><strong>Hi-Power® II</strong></td>
</tr>
</tbody>
</table>

### SIZES

- **LENGTH RANGE**
  - Heavy-Duty: 24 to 660 in. 25 to 660 in. 22 to 660 in. 25 to 200 in. 20 to 660 in. 16 to 132 in. 10 to 132 in. 18 to 433 in. 7 to 90 in.

### SINGLE STRANDS

- **POWERBAND® (joined)**
  - Heavy-Duty: Y Y Y Y N N N Y Y

### LENGTH MATCHING

- **Match Number**
  - Heavy-Duty: V80 V80 V80 V80 N N N

### FACTORY MATCH

- **PowerBAND® (joined)**
  - Heavy-Duty: Y Y Y Y N N N Y Y

### MATERIALS

- **BODY**
  - Chloroprene, Chloroprene, Diene, EPDM, EPDM, Chloroprene, Diene, Chloroprene, Polyurethane

### TENSILE CORD

- Aramid, Polyester, Polyester, Polyester, Polyester, Aramid, Polyester, Polyester, Polyester

### FABRIC WRAP

- 2 ply (clutching), 2 ply, 1 or 2 ply, NA, NA, 1 ply (clutching), 1 ply, NA, NA

### REACH

- **COMPLIANT**
  - Heavy-Duty: Y Y Y Y Y N Y Y Y

### ROHS

- **COMPLIANT**
  - Heavy-Duty: Y Y Y Y Y Y Y Y Y

### AMBIENT TEMPERATURE

- **-30° to +180° F**
  - Heavy-Duty: Good, Good, Good, Good, Good, Good, Good, Good, Good

### OIL RESISTANCE

- Excellent, Very Good, Good, Very Good, Very Good, Excellent, Good, Excellent, Excellent

### OZONE RESISTANCE

- Very Good, Very Good, Good, Excellent, Excellent, Very Good, Good, Excellent, Excellent

### STATIC CONDUCTIVE

- N, Y, Y, N, Y, N, Y, N, N

### POWER CAPACITY

- Excellent, Very Good, Good, Excellent, Very Good, Very Good, Good, Good, Excellent

### PULSATING OR SHOCK LOADING

- Excellent, Good, Good, Good, Good, Very Good, Good, Good, Poor

### SMALL PULLEY DIAMETERS

- Good, Good, Good, Very Good, Very Good, Good, Very Good, Excellent, Excellent

### MINIMAL PACKAGE SIZE

- Excellent, Very Good, Good, Very Good, Very Good, Good, Very Good, Excellent, Excellent

### BACKSIDE IDLERS

- Good, Very Good, Very Good, Good, Good, Very Good, Very Good, Excellent, Good

### MISALIGNMENT

- Good, Very Good, Very Good, Very Good, Very Good, Very Good, Good, Very Good, Poor, Poor

### SERPENTINE LAYOUT

- Good, Good, Good, Good, Good, Good, Very Good, Excellent, Poor

### QUARTER TURN LAYOUT

- Poor, Very Good, Very Good, Good, Good, Very Good, Very Good, Poor, Poor

### MINIMAL TAKE-UP

- Very Good, Good, Good, Good, Good, Very Good, Good, Good, Good

### SMOOTH RUNNING

- Good, Good, Good, Very Good, Very Good, Good, Good, Very Good, Excellent

### HIGH SPEEDS

- Good, Good, Good, Good, Good, Good, Good, Excellent, Excellent

### ENERGY EFFICIENCY

- Good, Good, Good, Very Good, Very Good, Good, Good, Excellent, Excellent

### DUST AND ABRASIVES

- Excellent, Very Good, Very Good, Good, Good, Very Good, Good, Poor, Poor

### STOCK SHEAVES AVAILABLE

- Y Y Y Y Y Y Y N N
Always running.  
Always innovating.  
Always ready to help.

For more on Gates continued V-belt innovation, to learn about our products, or to try one of our custom drive design tools, visit us online:

www.gates.com/v

90-Day Risk Free Test Drive

If, for any reason, the Gates belt drive system does not meet your expectation during the first 90 days, just return all components to your Gates Distributor for a full refund.*

*To qualify for the 90-day risk free guarantee, the belt drive system must use all Gates components including the belt, metal and bushings. The drive must be designed by or in partnership with Gates or your authorized Gates distributor, and must be properly installed. Refund via account credit.