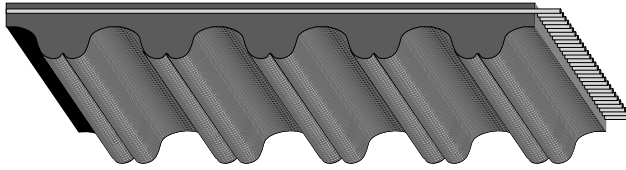




# HI-PERFORMANCE PD™ PLUS



Part No: 800 8M 50

800 800 mm Pitch Length  
8M 8 mm Pitch, Round Tooth Profile  
50 50 mm Wide

## A STRAIGHT TOOTH SYNCHRONOUS BELT WITH PERFORMANCE ADVANTAGES

Hi-Performance Pd™ Plus synchronous belts provide a reliable, economical, and trouble-free alternative to transmit power and reduce drive weight and cost when compared to chain drives and other types of belt drives. Lubrication and tensioning devices are eliminated, thus creating a cleaner, maintenance-free synchronous drive.

The belts were designed not only to improve upon the chain drive but to improve existing synchronous belt drives. Due to a unique parabolic tooth profile, Hi-Performance Pd Plus belts deliver the power required of a high capacity drive, yet reduce the irritating noise level up to 3 db over other premium synchronous drives. In addition, they fit virtually every existing high torque, synchronous application, providing advanced reliability and performance on existing belt drives without the need to change sprocket hardware.

They are available in a full range of pitch sizes including 5, 8, 14, and 20 mm pitch belts. Goodyear provides the “universal fit” by making available a belt that will fulfill existing drive requirements matching existing industry part numbers one for one.

## WIDE RANGE OF LOAD CAPABILITIES

Hi-Performance Pd Plus belts are designed for high capacity performance exceeding the traditional limitations of chain and belt drives. The load capacity of HPPD Plus belts range from fractional power ratings to more than 600 horsepower, extending the drive possibilities. They deliver superior performance by transmitting the power of low-speed, high-torque drives characteristic in heavy industrial machinery. There are many applications where HPPD Plus belts have the advantage by eliminating the problem of corrosion associated with chain drives.

## ENGINEERED FOR PERFORMANCE & DURABILITY

Hi-Performance Pd Plus’ unique round tooth profile was designed to minimize interference between belt and sprocket during mesh, providing greater horsepower capacity without slippage or speed variation. By designing the tooth to disperse critical stresses and create a positive engagement with the

## APPLICATIONS

Nearly every conceivable industrial drive application where precise shaft synchronization is required. HPPD Plus belts can also be used as an alternative to problem V-belt and chain drives.

- Aggregate Machinery
- Paper Industry Machinery
- Printing Trade Machinery
- Food Processing Equipment
- Packaging Machinery
- Mining Equipment
- Woodworking Machinery
- Office Equipment
- Machine Tools
- Home Appliances
- HVAC Units
- Textile Machinery
- Farm Machinery
- Vending Machines

## KEY FEATURES & BENEFITS

- Universal tooth profile drops into existing HTD sprockets.
- Quieter operation.
- High-grade Wingprene™ compound.
- Higher Horsepower “Plus” construction in 5M, 8M, and 14M pitches.
- Fiberglass tension cords for excellent resistance to shrinkage/elongation.
- Oil, heat, ozone, and abrasion resistant.
- Low-maintenance/high-efficiency rating.

sprocket, belt performance is improved along with assuring longer belt life.

The tension-carrying member in HPPD Plus belts is twisted from multiple strands of fiberglass cord, high in tensile strength, flex life and resistance to elongation. This results in excellent dimensional stability which prevents belt shrinkage or stretch under load. Take-up allowances are greatly reduced or eliminated, promoting a more maintenance-free drive.

All HPPD Plus belts are made with Goodyear’s Wingprene polymer which is specially compounded to resist damaging environmental factors that can shorten belt life.

HPPD Plus utilizes a stretch nylon facing specially developed by Goodyear. It reduces friction, minimizing wear on both belts and pulleys while contributing to smooth, precise operation, all contributing to extended belt life.

## SPACE-SAVING DESIGN OPPORTUNITIES

When compared to other belt systems, Hi-Performance Pd Plus belts permit a narrower drive, reducing the size of the drive and cutting component cost. Their flexibility, combined with a high power-to-weight ratio, allows the use of smaller sprockets, shorter centers and narrower belts. The compact design opportunities are enhanced by the ability to establish a permanent center distance, thus eliminating any drive tensioning device.

SYNCHRONOUS