MEGADYNE MEGASYNC

THE NEW STANDARD IN ULTRA HIGH-PERFORMANCE SYNCHRONOUS BELTS

- Megadyne introduces one of the highest power density synchronous power transmission belt on the market!
- Next generation of synchronous belts surpassing the Platinum and other premium belt drives on the market today.
- When you want to replace chains, gears or you need to provide a superior belt drive solution - you need MEGADYNE MEGASYNC™ TITANIUM.
- With an enhanced design and innovative materials, Titanium has all the features and performance to make it the ideal belting solution in the most demanding applications.

BELT STRUCTURE AND FEATURES

1 **BELT BODY**
   HNBR Elastomer uniquely cross-linked to increase tooth rigidity & durability.
   - Superior resistance to flex fatigue
   - Expanded range of working temperatures from -40°C (-40°F) to +120°C (+248°F) and ability to withstand peaks up to +140°C (+284°F)
   - Highly resistant to mineral oils and abrasion

2 **CORDS**
   100% carbon, the cord provides extreme dimensional stability (no stretch) under static and dynamic operational loads.
   - Maintenance-free, no need to re-tension
     Dual spiral S & Z twist cord provides neutral tracking
   - Extremely accurate tooth meshing resulting in the reduction of abrasion, vibrations, & noise

3 **TOOTH FACING FABRIC**
   High-performing special fabric bonded to the tooth surface.
   - Improved torque carrying capacity and tooth shear resistance
   - Special film provides self-lubricating properties
   - Long lasting durability and antistatic properties
   - Low friction, increased drive efficiency with less sprocket wear

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

CORDS
100% carbon, the cord provides extreme dimensional stability (no stretch) under static and dynamic operational loads.

- Maintenance-free, no need to re-tension
  - Dual spiral S & Z twist cord provides neutral tracking
- Extremely accurate tooth meshing resulting in the reduction of abrasion, vibrations, & noise

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width

**RANGE**

- **PROFILE:** RPC – an advanced evolution of RPP
- **PITCH:** 8M; 14M
- **PITCH LENGTH:** 8M from 248 to 4400 mm; 14M from 994 to 4956 mm
- **WIDTH:** Available in any width
ADDED FEATURES

SUPERIOR POWER CAPACITY
WITH A MORE COMPACT DRIVE SYSTEM

- Reliability
- Wide variety of applications
- Quieter operation
- Less maintenance
- Cost efficient drives
- Interchangeability
- AntiStatic to ISO 9563

BENEFITS

NEW & EXTREME DRIVE DESIGNS

- Depending on the drive characteristics, potential to reduce at least one standard belt width from current drive belt- immediate cost savings, less overhung load on bearings and shafts, thus resulting in longer life of all components upstream and downstream.
- Narrower belt width means lower metal costs.
- Widest working temperature range: Titanium works on applications where other belts will not.

EXISTING BELT SYSTEM UPGRADE

- Up to 50% or more power capacity than traditional synchronous belts on the market.
- Minimize upgrade problems on existing applications thanks to the high interchangeability of sprockets: “RPC” profile has full interchange with HTD, RPP profiles and polyurethane belt pulleys.
- Improved durability and efficiency, more sustainable.
- Available in any width.

CHAIN & GEAR REPLACEMENT

- Lower noise and less weight than roller chain, gears or even polyurethane belts.
- Does not require lubrication nor frequent re-tensioning.
- On average lasts 3-4 times longer than roller chain; if already replacing roller chain once a year, it could be possible to extend maintenance interval to once every 3 years.

MAIN INDUSTRIES

- HVAC
- TEXTILE
- WOOD
- MARBLE
- ALUMINIUM
- HEAVY INDUSTRY
- MATERIAL HANDLING & LOGISTICS