The Megadyne Group, founded almost 60 years ago, is a global organization specializing in the development and manufacture of a variety of industrial belt systems. Ranging from power transmission, to conveyor belting, from linear positioning to material handling.

Megadyne has a worldwide presence, with production and distribution centers in Europe, the Americas, Africa, Asia and the Middle East. We can offer local recommendations, tailored to your individual requirements. This ensures custom-made solutions, delivered on time.

With many years' experience in Automotive and Tire manufacturing sectors, supported by ongoing, research, Megadyne offers a wide range and depth of products. These all combine, to allow the widest, most flexible approach to providing clients with a customised solution.

From our wide range of products, in rubber, PU and fabric, Megadyne can supply innovative solutions to the market. Megadynes polyurethane ranges are able to provide open ended belts with customised cords, for high traction resistance and superior flexibility. This guarantees the best life cycle and precision in the field. Megadyne R&D has developed several different solutions with a wide range of materials able to stand extreme conditions and aggressive chemical attack. Megadyne is able to manufacture silicone free timing belts.

### Belt features

<table>
<thead>
<tr>
<th>MEGADYNE® ISORAN SYNCRONOUS RPP</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Endless</th>
<th>LENGTH 248 - 4956 mm</th>
<th>WIDTH 12-170 mm</th>
<th>THICKNESS 5.4 - 9.7 mm</th>
<th>PITCH RPP8 - RPP14</th>
<th>TENSIONING MEMBER Fiberglass</th>
<th>ADVANTAGE &amp; CHARACTERISTIC High stability and resistance</th>
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<tr>
<th>MEGADYNE® PLATINUM</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Endless</th>
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<th>TENSIONING MEMBER Dual Core</th>
<th>ADVANTAGE &amp; CHARACTERISTIC Highest power transmission</th>
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<tr>
<th>MEGADYNE® MEGAPAINT</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Endless</th>
<th>LENGTH 248 - 4956 mm</th>
<th>WIDTH 12-170 mm</th>
<th>THICKNESS 5.4 - 9.7 mm</th>
<th>PITCH RPP8 - PLT14</th>
<th>TENSIONING MEMBER Fiberglass/Dual Cord</th>
<th>ADVANTAGE &amp; CHARACTERISTIC Silicone and contaminants free</th>
</tr>
</thead>
</table>

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<tr>
<th>MEGADYNE® V-BELT</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Endless</th>
<th>LENGTH 450 - 12530</th>
<th>SECTIONS SPZ/SPASPB/SPC/XPZ/XPA/XPB/XPC</th>
<th>COMPOUND EPDM - SBR</th>
<th>ADVANTAGE &amp; CHARACTERISTIC Long lifetime and small pulley diameters</th>
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</table>

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<tr>
<th>MEGADYNE® POLYURETHANE WIDE BELTS</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Open end rolls, joined</th>
<th>LENGTH from 1.2 m</th>
<th>WIDTH 200 - 500 mm</th>
<th>PITCH T5-T10/H</th>
<th>TENSIONING MEMBER Kevlar cord</th>
<th>COATINGS NFT - NFB</th>
<th>ADVANTAGE &amp; CHARACTERISTIC High precision and convey capability</th>
</tr>
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<tr>
<th>MEGADYNE® MEGALINEAR P3-P4</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Open End Rolls</th>
<th>LENGTH 100 m</th>
<th>WIDTH 30 - 120 mm</th>
<th>THICKNESS 3 - 4 mm</th>
<th>TENSIONING MEMBER Standard steel/HP steel</th>
<th>COATINGS NFT</th>
<th>ADVANTAGE &amp; CHARACTERISTIC Extreme tension resistance for industrial lifting systems</th>
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</table>

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<tr>
<th>MEGADYNE® MEGALINEAR PS4.8</th>
<th>ENDLESS</th>
<th>SUPPLIED AS Open End Rolls</th>
<th>LENGTH 1900 - 22770 mm</th>
<th>WIDTH 80 mm</th>
<th>PITCH PS4.8</th>
<th>TENSIONING MEMBER Steel cord</th>
<th>COATINGS NFT</th>
<th>ADVANTAGE &amp; CHARACTERISTIC High resistance to wearing and reduction of the maintenance costs</th>
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</table>

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<tr>
<th>MEGADYNE® ACCU-LINK</th>
<th>ROLLS</th>
<th>SUPPLIED AS Rolls</th>
<th>LENGTH 7 - 30 m</th>
<th>SECTIONS Z/3L - A/4L - B/5L - C</th>
<th>FABRIC Multilayer woven polyester</th>
<th>ADVANTAGE &amp; CHARACTERISTIC Accu-Link can be assembled without any tool and in a matter of seconds.</th>
</tr>
</thead>
</table>

### Megadyne Belt Specifications

**MEGADYNE® ISORAN SYNCRONOUS RPP**
- **SUPPLIED AS**: Endless
- **LENGTH**: 248 - 4956 mm
- **WIDTH**: 12-170 mm
- **THICKNESS**: 5.4 - 9.7 mm
- **PITCH**: RPP8 - RPP14
- **TENSIONING MEMBER**: Fiberglass
- **ADVANTAGE & CHARACTERISTIC**: High stability and resistance

**MEGADYNE® PLATINUM**
- **SUPPLIED AS**: Endless
- **LENGTH**: 248 - 4956 mm
- **WIDTH**: 12-170 mm
- **THICKNESS**: 5.4 - 9.7 mm
- **PITCH**: RPP8 - RPP14
- **TENSIONING MEMBER**: Dual Core
- **ADVANTAGE & CHARACTERISTIC**: Highest power transmission

**MEGADYNE® MEGAPAINT**
- **SUPPLIED AS**: Endless
- **LENGTH**: 248 - 4956 mm
- **WIDTH**: 12-170 mm
- **THICKNESS**: 5.4 - 9.7 mm
- **PITCH**: RPP8 - PLT14
- **TENSIONING MEMBER**: Fiberglass/Dual Cord
- **ADVANTAGE & CHARACTERISTIC**: Silicone and contaminants free

**MEGADYNE® V-BELT**
- **SUPPLIED AS**: Endless
- **LENGTH**: 450 - 12530 mm
- **SECTIONS**: SPZ/SPASPB/SPC/XPZ/XPA/XPB/XPC
- **COMPOUND**: EPDM - SBR
- **ADVANTAGE & CHARACTERISTIC**: Long lifetime and small pulley diameters

**MEGADYNE® MEGALINEAR P3-P4**
- **SUPPLIED AS**: Open End Rolls
- **LENGTH**: 100 m
- **WIDTH**: 30 - 120 mm
- **THICKNESS**: 3 - 4 mm
- **TENSIONING MEMBER**: Standard steel/HP steel
- **COATINGS**: NFT
- **ADVANTAGE & CHARACTERISTIC**: Extreme tension resistance for industrial lifting systems

**MEGADYNE® MEGALINEAR PS4.8**
- **SUPPLIED AS**: Open End Rolls
- **LENGTH**: 1900 - 22770 mm
- **WIDTH**: 80 mm
- **PITCH**: PS4.8
- **TENSIONING MEMBER**: Steel cord
- **COATINGS**: NFT
- **ADVANTAGE & CHARACTERISTIC**: High resistance to wearing and reduction of the maintenance costs

**MEGADYNE® ACCU-LINK**
- **SUPPLIED AS**: Rolls
- **LENGTH**: 7 - 30 m
- **SECTIONS**: Z/3L - A/4L - B/5L - C
- **FABRIC**: Multilayer woven polyester
- **ADVANTAGE & CHARACTERISTIC**: Accu-Link can be assembled without any tool and in a matter of seconds.
These are particularly critical in the automotive body painting process. Our depth and breadth of experience, achieved during decades of partnership with automotive and tire manufacturers, gives Megadyne the capability and experience to manufacture specially fabricated belts, for vacuum, magnetic applications and the transport of the raw rubber stock.

Our rubber drive belts are available in many different compounds and constructions, according to your drive requirements. The belts are available in the RPP profile that provides high power capacity with low noise and smooth running. Megadyne can supply: Isoran standard, Silver, Gold and Platinum. All Megadyne products are certified to conform to all the relevant International standards.

### Conveyor belts features

<table>
<thead>
<tr>
<th>SAMPLA® FABCON</th>
<th>SAMPLA® PUCON</th>
<th>SAMPLA® FELTCON</th>
<th>SAMPLA® PVCON</th>
</tr>
</thead>
<tbody>
<tr>
<td>B31 (3F/14 PG35 U0/U0)</td>
<td>R13 (2LR/6 TR10 U0/00 AS FA)</td>
<td>R16 (2R-RX/14 TR15 00/00 AS FA)</td>
<td>R30 (3FC/8 TR30 00/00 U0/U0)</td>
</tr>
<tr>
<td><strong>TOTAL THICKNESS APPROX (mm)</strong></td>
<td><strong>3,5</strong></td>
<td><strong>1</strong></td>
<td><strong>1,5</strong></td>
</tr>
<tr>
<td><strong>WEIGHT APPROX. (kg/m²)</strong></td>
<td><strong>4</strong></td>
<td><strong>1,1</strong></td>
<td><strong>1,8</strong></td>
</tr>
<tr>
<td><strong>EFFECTIVE PULL AT 1% ELONGATION (N/mm.width)</strong></td>
<td><strong>14</strong></td>
<td><strong>6</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>MAX.BELT WIDTH WITHOUT LONGITUDINAL seam:mm.</strong></td>
<td><strong>3000</strong></td>
<td><strong>3000</strong></td>
<td><strong>3000</strong></td>
</tr>
<tr>
<td><strong>D. MIN APPROX. (mm.)</strong></td>
<td><strong>80</strong></td>
<td><strong>10</strong></td>
<td><strong>40</strong></td>
</tr>
<tr>
<td><strong>PERMITTED OPERATING TEMPERATURE (°C)</strong></td>
<td><strong>-10/+80</strong></td>
<td><strong>-10/+80</strong></td>
<td><strong>-10/+80</strong></td>
</tr>
<tr>
<td><strong>RESISTENT,OIL AND GREASE</strong></td>
<td><strong>Yes</strong></td>
<td><strong>Yes</strong></td>
<td><strong>Limited</strong></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>SAMPLA® PUCON</th>
<th>SAMPLA® PVCON</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN20/A (2R/13 B25 00/00 U05A AR)</td>
<td>PN30/A (3R/50 B25 00/00 U04A AR)</td>
</tr>
<tr>
<td><strong>TOTAL THICKNESS APPROX (mm)</strong></td>
<td><strong>2,4</strong></td>
</tr>
<tr>
<td><strong>WEIGHT APPROX. (kg/m²)</strong></td>
<td><strong>2,75</strong></td>
</tr>
<tr>
<td><strong>EFFECTIVE PULL AT 1% ELONGATION (N/mm.width)</strong></td>
<td><strong>13</strong></td>
</tr>
<tr>
<td><strong>MAX.BELT WIDTH WITHOUT LONGITUDINAL seam:mm.</strong></td>
<td><strong>3200</strong></td>
</tr>
<tr>
<td><strong>D. MIN APPROX. (mm.)</strong></td>
<td><strong>80</strong></td>
</tr>
<tr>
<td><strong>PERMITTED OPERATING TEMPERATURE (°C)</strong></td>
<td><strong>-30/+80</strong></td>
</tr>
<tr>
<td><strong>RESISTENT,OIL AND GREASE</strong></td>
<td><strong>Yes</strong></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>SAMPLA® FELTCON</th>
<th>SAMPLA® PVCON</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAM 040/A (1K/17 GR40 00/00 AS)</td>
<td>U35 (3R/16 PG45 00/01 V15 AS)</td>
</tr>
<tr>
<td><strong>TOTAL THICKNESS APPROX (mm)</strong></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td><strong>WEIGHT APPROX. (kg/m²)</strong></td>
<td><strong>2,5</strong></td>
</tr>
<tr>
<td><strong>EFFECTIVE PULL AT 1% ELONGATION (N/mm.width)</strong></td>
<td><strong>17</strong></td>
</tr>
<tr>
<td><strong>MAX.BELT WIDTH WITHOUT LONGITUDINAL seam:mm.</strong></td>
<td><strong>2000</strong></td>
</tr>
<tr>
<td><strong>D. MIN APPROX. (mm.)</strong></td>
<td><strong>80</strong></td>
</tr>
<tr>
<td><strong>PERMITTED OPERATING TEMPERATURE (°C)</strong></td>
<td><strong>-10/+120</strong></td>
</tr>
<tr>
<td><strong>RESISTENT,OIL AND GREASE</strong></td>
<td><strong>Yes</strong></td>
</tr>
</tbody>
</table>
Sheet Metal Processing

MEGADYNE® MEGAFLEX & MEGALINEAR JOINED
- Megafl ex are suitable as truly endless belts with thermoplastic polyurethane and continuous spiral cord
- Megalinear Joined are open end joined belts in thermoplastic polyurethane and S & Z parallel cord
- Available with special polyurethane and covers for oil, chemical resistance and high grip requirements
- Can be reworked with custom-made grinding operations. Suitable for high speed conveyors in high capacity production areas
- Non marking surface materials

SAMPLA® FELTCON
- High temperature resistant
- Used for conveying steel sheets before the painting and pressing stages
- Manufactured of needle felt that provides a cut resistant soft surface that ensure the steel sheets are not damaged

SAMPLA® FABCON
- B31 (3F/14 PG35 U0/U0) - R13 (2LR/16 TR10 U0/00 AS FA) - R16 (2R-RX/14 TR15 00/00 AS FA) - R30 (3FC@ TR30 00/00 FA)
- Abrasion and cut resistant
- Using as accumulating conveyor
- Conveyor belts with excellent release properties suitable for rubber mixture conveying
- Available with cotton fabric, polyester fabric
- Impregnations if required

Robotic Manufacturing

MEGADYNE® MEGAPOWER
- Truly endless belt manufactured in thermoset polyurethane with spiral cord.
- High positioning precision

MEGADYNE® ISORAN
- Endless rubber belts
- Spiral fiberglass cord for high speed
- High precision drives

Glass tempering line and storage

MEGADYNE® POLYURETHANE NO MARKING TIMING BELTS
- Polyurethane Endless and open end belt
- Non marking coating
- Smooth drive
- AVAFC (urethane) and Z (Foam urethane) cover coating provide high friction
Car chassis assembly and handling

MEGADYNE® V-BELT
- Grinded sidewalls for smooth-running operation, with no vibrations and reduced noise levels
- The longer and reliable service life reduces the material and labor cost for drive maintenance

SAMPLA® PVCON
- U35 (3R/16 PG45 00/V15 AS) U91V (3F/50 PG70 V0/V)
- Abrasion and cut resistant
- Special covers stucture

MEGADYNE® MEGAFLEX FLAT BELT
- PS4.8 have been specifically developed for chassis production
- Truly endless belts with high resistance steel cord
- Suitable for skid conveyors applications

MEGADYNE® MEGALINEAR
- The frameworks lifting systems are commonly equipped with Megalinair open end belts
- Designed to ensure precise position on heavy loads
- The most suitable belts are RPP14, RPP14 XP
- P3 and P4 have been developed for the vertical lifting system and are available in several widths and with different tensile member

MEGADYNE® ACCU-LINK
- Link-belt, created and developed as an alternative to classical rubber V-belts
- Made with a polyurethane elastomer reinforced by a multilayer woven polyester fabric
- Easy installation; reduced downtime
- Low vibration level

MEGADYNE® MEGALINEAR
- PLATINUM represents the highest level of power transmission performances
- High resistance and long life cycles, even in the most extreme operating conditions

Fan System

MEGADYNE® V-BELT
- Grinded sidewalls for smooth-running operation, with no vibrations and reduced noise levels
- The longer and reliable service life reduces the material and labor cost for drive maintenance

SAMPLA® PUCON
- PN20/A (2R/13 BS0 00/U05A AR) - PN30/A (3R/50 BS0 00/U04A AR) - P24/A/DG (2R-RX/14 DG40 U0/U20A AS FA AR)
- Abrasion and cut resistant
- Low noise fabric back
- Permanently antistatic and oil resistant
**Painting Lines**

MEGADYNE® MEGAPAINT
- Special compounded power transmission belts that are able to conform to the strict requirements related to non-contamination
- Supplied in special sealed packaging
- Silicone Free

MEGADYNE® MEGALINEAR SILICON FREE
- All the open ended and endless belts in thermoplastic polyurethane. Available in silicon free material and in different compounds, according to the requirements of the painting process
- Contaminant free

**Tire Manufacturing**

MEGADYNE® MEGALINEAR WIDE JOINED
- Synchronized conveying with low friction conveying surface
- Joining process insures perfect flatness
- T5, T10 and H pitch
- NFT offers low friction conveying surface

SAMPLA® FABCON
- B31 (B14 PG35 U0/00)- R13 (2LR/6 TR10 U0/00 AS FA) - R16 (2R-RX/14 TR15 00/00 AS FA) - R30 (3FC/8 TR30 00/00 FA)
- Abrasion and cut resistant
- Used in applications where product accumulation occurs
- Conveyor belts with excellent release properties suitable for rubber mixture conveying
- Reinforced with cotton fabric, polyester fabric
- Water saturation if required
CASE STUDIES

**Application:** Roller system for heavy duty van frames.

**Previous drive:** Rubber flat belts

**Previous drive problems:** High quantity of dust particles and necessity of frequent maintenance

**Solution:** PS4.8 eliminated the problem of the powder and increased significantly the lifetime of the belt. The customer did not report failures and strongly reduced the maintenance actions.

**Application:** Vacuum conveying systems.

**Previous drive:** Polyurethane standard belt joined T20 with 85 ShA PU overthickness

**Previous drive problems:** Low resistance to synthetic oils used in the application

**Solution:** Special polyurethane cover made in high chemical resistance material. Megadyne increased of five times the resistance and the lifetime of the belts in the same conditions.
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