A global partner with a specific know-how that translates into productivity and reliability.

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

Megadyne has a worldwide presence, with production and distribution centers in Europe, The Americas, Africa, Asia and Middle East. We can offer local recommendations, tailored to your individual requirements. This ensures bespoke solutions, delivered in a timely manner.

With many years' experience in the Packaging Industry, supported by constant research & development, Megadyne offers a wide range and depth of products. These all combine to allow the widest, flexible approach to providing clients with a customised solution.

Three new covering materials have just been added to the range. Bluegrip, TNX and Redgrip are produced using “One Shot” technology, which allows the belt and cover to be manufactured in a single process.

These special coatings are available in different hardness grades, that guarantee the correct amount of grip required. Due to the production process, performance and adhesion of the cover to the belt is second to none.

High humidity conditions, such as those found in capping machines, can cause a decrease in the coefficient of friction of the cover. Bluegrip overcomes these issues, offering a consistent grip rate that allows enhanced production rates.

Versions are also available, that allow a vacuum to pass from a support manifold, through perforations in the belt. This causes the product to be firmly gripped by the belt during the production process, which brings benefits in higher processing speeds and increased overall productivity.

All Megadyne products are certified and conform to all the relevant international standards.
The **DRYBACK V-BELTS** has been created for drives with small pulley diameters and high temperature peaks, combined with a high grade of moisture and humidity. It withstands the harshest environmental conditions, such as oil and grease contaminated drives.

**ISORAN RUBBER SYNCHRONOUS BELTS**
Megadyne Isoran RPP belts are high power and high precision class of belts. This kind of belt uses a parabolic profile with the purpose to transmit more power and reduce tooth jump and noise.

The **ISORAN RPP SILVER** offers performances up to 300% higher than other deep or parabolic profile systems while maintaining effective interchangeability.

The **ISORAN RPP GOLD** system can be used in a virtually limitless range of applications where a high torque synchronous drive is required, offering power ratings up to 100% higher than RPP SILVER.

**MEGALINEAR** open length timing belts are manufactured in thermoplastic polyurethane, that gives superior wear and abrasion resistance. Various grades of steel cords offer good running characteristics, even with high tractive loads. Manufactured to tight tolerances, Megalinear delivers reliability and excellent dimensional stability. The addition of a Nylon coating on the tooth and/or on the back of the belt during production, enhances the running properties for specific applications. An extra thickness of polyurethane is also possible on the back of the belt, offering extra protection against aggressive or heavy materials.

**MEGAFLEX TIMING BELTS** are manufactured in thermoplastic polyurethane, with continuous spiral steel cords. They are especially suited for power transmission and conveying with high loads and high speeds (up to 70 m/s). The addition of a nylon coating on the teeth during production enhances the running properties for specific applications, reduces the noise and the friction coefficient. Megafllex belts are truly endless, enabling them to deliver exceptional performance.

**SPECIAL COVERS** Megadyne offers a variety of coverings in polyurethane, elastomer, foam, PVC and other unique solutions, designed for special requirements.

**TENAX** Coating used for conveying abrasive materials, with high friction coefficient and high cutting resistance, good resistance to wear and water.

**FOAMED POLYURETHANE** Coating used for vacuum conveying systems, with good resistance to friction, good resistance to oil and to abrasion.

**BLUEGRIP** Cover is based on a natural rubber mixture which enables to have high abrasion resistance and a good

**CLEATS** Megadyne timing belts can be customized by welding profiles on their back. All the cleats are made using thermoplastic polyurethane. The cleats are attached using high frequency vibration welding.

**CONVEYOR BELTS** can be manufactured with tensioned fabric inside and with various coating materials on top and interlayer. In addition to the general conveying types, the belts which have bare fabric surfaces are used in the packaging machines where accumulation is the main issue. Besides, “Basket Weave” and “Super Grip” patterns provide good grip to keep the conveyed products correctly positioned on the belt and are also a good solution for incline - decline applications.
Filling machine

MEGAFLEX BELT
Truly endless belt with thermoplastic polyurethane.
Continuous spiral steel cords.

OPEN END TIMING BELT
Open length timing belts manufactured in thermoplastic polyurethane.
Various grades of steel cord.
High positioning precision suitable for linear movement and lifting systems.

COATED MEGAPOWER BELT
Molded thermoset polyurethane belt.
Customizable back cover.

Cap sealing station

DRY BACK V-BELT
Rubber belt with no marking wrapped fabric.
High resistance to oil and steam.

SPECIAL RUBBER FLAT BELT
Endless molded flat belt.
Low friction fabric.
No marking with high friction cover.
Palletizing machine

MEGAPOWER VACUUM (GRINDING+HOLES)
Special molded endless belt. Back cover with high friction. Special holes and grinding for VACUUM applications.

RUBBER TIMING BELTS
Molded rubber belts available in different lengths. Suitable for high power transmission drives.

OPEN-END TIMING BELTS
Open length timing belts manufactured in thermoplastic polyurethane. Various grades of steel cord. High positioning precision suitable for linear movement and lifting systems.

JOINTED BELTS
Endless belt that can be produced in any length. Suitable for conveying. High resistance to fatigue.

CONVEYORS
PVCCON belt types with basket weave and supergrip patterns on top for keeping the conveyed products in line.

Vertical fill form sealing machine

MEGAPOWER VACUUM (GRINDING+HOLES)
Special molded endless belt. Back cover with high friction. Special holes and grinding for VACUUM applications.
Wrapping and shrinking machine

**COATED MEGAPOWER BELT**
Molded thermoset polyurethane belt.
No marking and high friction covers available for material conveying.

**DOUBLE SIDED MEGAFLEX**
Thermoplastic polyurethane truly endless belt.
Continuous spiral steel cord.
Backside teeth for synchronization of counter-rotation pulleys.

**JOINED BELTS**
Endless belt that can be produced in any length.
Suitable for conveying.
High resistance to fatigue.

**POLYURETHANE BELTS WITH CLEATS**
Joined belt with welded cleats.
High frequency welding for maximum precision and adhesion.
Customizable cleats profile.

**CONVEYORS**
FABCON Belt types with bare top surface and PVCCON belt types for general conveying.
CASE STUDIES

Ceramic packaging machine

Application:

Previous drive: Chain Drive

Previous drive problems:
Slippage of the ceramic on the chains in presence of moisture or water. Occasional marks on the tile due to the chain.

Solution:

JOINED PU BELT with APL: cover on the back; the softer material eliminates the problem of the mark on the tile. The APL cover offers a very good grip even in humid environments.

Food packaging

Application:

Previous drive: Flat conveyor belt

Previous drive problems:
Belt slippage, synchronization, expensive replacement and cost of spare parts.

Solution:

MEGALINEAR TIMING BELT with FDA CLEAT: jointed with PPJ joint system for a total length of 30m. Easy replacement of just one portion of the belt, if braking occurs, and perfect belts synchronization.
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<thead>
<tr>
<th>Country</th>
<th>Region</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Beijing</td>
<td>NO.37-344 Fudongyuan Ciqu Street Taihu town, Tongzhou Beijing 101111 Phone +86 10 8150 7478 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 10 8150 7478</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Foshan</td>
<td>n.5 Hedang Industrial Area East Side Wu Gang Road Changcheng district, Foshan Guangdong 528031 Phone +86 757 8381 5530 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 757 8381 5530</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Fujiang</td>
<td>No.720 Marketing Comprehensive Building, South Lingshui Street Wuli Industrial Park, Jining City, Fujian, 362261 Phone +86 955 8816 0309 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 955 8816 0309</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Ningbo</td>
<td>Industrial Chemical Area, Fengxiang Road 777, Xiepu town Zhenghai District, Ningbo City, Zhejiang Province, 315203 Phone +86 574 8650 2886 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 574 8650 2886</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Qingdao</td>
<td>Longshan town office, Nangang backstreet Jimo city – Qingdao – Shandong, 266100 Phone +86 532 8765 2117 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 532 8765 2117</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Shanghai</td>
<td>Business Office A area, 6th Floor, 11th Building, No.1588, Li an Road Shanghai, 201105 Phone +86 21 5447 1473 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 21 5447 1473</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Shenyang</td>
<td>Room303, Flat 3, No.131-9 Baogong South St. Tieli District Shenyang, 110074 Phone +86 24 2572 3238 Fax +86 24 2572 3238 <a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
<td>+86 24 2572 3238</td>
<td><a href="mailto:info.cn@megadynegroup.com">info.cn@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>CZECH REPUBLIC</td>
<td>Praha</td>
<td>Karlowskarsa Business Park Na Hurce 1077/4 (Budova C), 161 00 Praha 6 – Ruzyné Phone +420 2 8481 7181 <a href="mailto:office.cz@megadynegroup.com">office.cz@megadynegroup.com</a></td>
<td>+420 2 8481 7181</td>
</tr>
<tr>
<td>China</td>
<td>Czech Republic</td>
<td>Prague</td>
<td>Logistic Center Zl Ceskoslovenska 10 73300 St. Jean De Maurienne Phone +33 4 7964 0613 <a href="mailto:info.fr@megadynegroup.com">info.fr@megadynegroup.com</a></td>
<td>+33 4 7964 0613</td>
</tr>
<tr>
<td>China</td>
<td>Germany</td>
<td>Borchern</td>
<td>Nikolaus Otto Straße 24 33178 Borchern Phone +49 5251 8735 0 <a href="mailto:info.de@megadynegroup.com">info.de@megadynegroup.com</a></td>
<td>+49 5251 8735 0</td>
</tr>
<tr>
<td>China</td>
<td>Elchingen</td>
<td>Daimlerstraße 13 98275 Elchingen Phone +49 7308 9665 0 <a href="mailto:produktion@megadynegroup.com">produktion@megadynegroup.com</a></td>
<td>+49 7308 9665 0</td>
<td><a href="mailto:produktion@megadynegroup.com">produktion@megadynegroup.com</a></td>
</tr>
<tr>
<td>China</td>
<td>Hungary</td>
<td>Budapest</td>
<td>West Gate Business Park Topark u. 9 2045 Torokbalint Phone +36 23 482 628 <a href="mailto:info.hu@megadynegroup.com">info.hu@megadynegroup.com</a></td>
<td>+36 23 482 628</td>
</tr>
<tr>
<td>China</td>
<td>MEXICO</td>
<td>Mexico C.P.</td>
<td>AV. Ceylan 959 Int. 9 Y 10 Industrial Vallejo Azcapotzalco, Mexico C.P. 02300 Phone +52 55 5587 3680 <a href="mailto:inquiries@jasonindustrial.com">inquiries@jasonindustrial.com</a></td>
<td>+52 55 5587 3680</td>
</tr>
<tr>
<td>China</td>
<td>POLAND</td>
<td>Bydgoszcz</td>
<td>Ołowiowa 10, 85-461 Bydgoszcz POLAND Phone +48 52 348 77 12 <a href="mailto:info.pl@megadynegroup.com">info.pl@megadynegroup.com</a></td>
<td>+48 52 348 77 12</td>
</tr>
<tr>
<td>China</td>
<td>SOUTH AFRICA</td>
<td>Johannesburg</td>
<td>Unit 4 - 6, 24 Park Avenue South - Highway Business Park - Rooihuiskraal,Centurion Phone +27 (0) 12 661 1652 Fax +27 (0) 12 661 1634 <a href="mailto:info.za@megadynegroup.com">info.za@megadynegroup.com</a></td>
<td>+27 (0) 12 661 1652</td>
</tr>
<tr>
<td>China</td>
<td>Spain</td>
<td>Barcelona</td>
<td>Ctra de l’Arboc, Km 1,7 08800 Vilanova I La Geltru Barcelona Phone +34 93 811 5450 <a href="mailto:info.sp@megadynegroup.com">info.sp@megadynegroup.com</a></td>
<td>+34 93 811 5450</td>
</tr>
<tr>
<td>China</td>
<td>Sweden</td>
<td>Stockholm</td>
<td>S.S.P. Tower – 16th Floor – Office 10 Soi Sukhumvit 63 (Ekamai) Klong Tan Nuea, Bangkok Vadhana Bangkok 10110 Phone: +66 (0) 27115477</td>
<td>+66 (0) 27115477</td>
</tr>
<tr>
<td>China</td>
<td>Thailand</td>
<td>Bangkok</td>
<td>Ctra de l’Arboc, Km 1,7 08800 Vilanova I La Geltru Barcelona Phone +34 93 811 5450 <a href="mailto:info.sp@megadynegroup.com">info.sp@megadynegroup.com</a></td>
<td>+34 93 811 5450</td>
</tr>
<tr>
<td>China</td>
<td>Turkey</td>
<td>Izmir</td>
<td>Mustafa Kemal Atatürk Mahallesi Izmir Ankara Asfaltı Caddesi No:19, 35170 Ulucak Kemalpasa Phone +90 232 877 07 00 <a href="mailto:info.tr@ultrans.com.tr">info.tr@ultrans.com.tr</a></td>
<td>+90 232 877 07 00</td>
</tr>
<tr>
<td>China</td>
<td>U.K.</td>
<td>Birmingham</td>
<td>Unit 1, The Washington Centre, Halesowen Road, Netherton, Dudley, West Midlands, DY2 9RE Phone: +44 1384 215 021 <a href="mailto:sales@megadynegroup.com">sales@megadynegroup.com</a></td>
<td>+44 1384 215 021</td>
</tr>
</tbody>
</table>

**HEADQUARTERS**

ITALY Torino

Via S. Lucia, 114

10075 Mathi (Torino)

Phone +39 011 926 8052

info@megadynegroup.com

www.megadynegroup.com

www.jasonindustrial.com