MEGADYNE


# ELEVATORS, ESCALATORS & DOORS

INDUSTRY BROCHURE

AM-EN

# ELEVATORS, ESCALATORS & DOORS

Low noise, reliability, security, and long service life – these are must-have features. Our solutions support the vertical movement systems, offering the highest level of operational safety and maximum efficiency along with high load torque and silent drive standards. Find our products in such sectors as: elevators, escalators, automatic doors, sliding doors, garage doors, roll-up doors, and turnstiles.

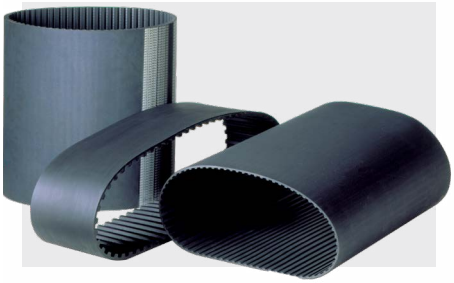
Megadyne has been catering to your needs since 1957, designing and manufacturing power transmission belts, matched components, and complete belt systems for all types of equipment. We are a reliable partner for original equipment manufacturers and aftermarket distributors, with:
9 manufacturing plants in Europe, North America, and Asia, more than 170 Customer Solution Centres and 3 main distribution hubs around the world, able to deliver products efficiently, from large industrial sites to remote locations.

# BELT PROPERTIES

| TRACTION BELTS MEGALINEAR P3.3 | |
|---|---|
| SUPPLIED AS | Open-ended |
| LENGTH | On request |
| WIDTH | 25 - 30 - 36 - 40 - 50 - 60 mm |
| LIGHT WIDTH | 30 mm |
| TENSION MEMBER | S and Z torsion high-performance zinked steel cords |
| FEATURES | Extreme tension resistance for industrial lifting systems |

*Flame retardant compound available on demand.*

| MEGADYNE RUBBER OPEN-ENDED | |
|---|---|
| SUPPLIED AS | Open-ended |
| LENGTH | On request |
| WIDTH | 10 - 85 mm |
| PITCH | RPP5, RPP8, RPP14 |
| TENSION MEMBER | Fiberglass, steel |
| FEATURES | High load capacity, reduced noise and vibration |



| MEGADYNE MEGASYNC™ RUBBER ENDLESS TIMING BELTS | |
|---|---|
| SUPPLIED AS | Endless |
| LENGTH | 248 - 4 956 mm |
| WIDTH | 12 - 170 mm* |
| PITCH | SLV3 8M, SLV3 14M, GLD2 8M, GLD2 14M |
| TENSION MEMBER | Fiberglass |
| FEATURES | High stability and resistance, antistatic |

**Standard Width Range - MEGADYNE will cut to desired width upon request.*


| MEGADYNE MEGASYNC™ TITANIUM | |
|---|---|
| SUPPLIED AS | Endless |
| LENGTH | 248 - 4 956 mm |
| WIDTH | 12 - 170 mm* |
| PITCH | TTM8, TTM14 |
| TENSION MEMBER | Dual spiral S & Z twist, 100% carbon cords |
| FEATURES | Superior power capacity with a more compact drive system |

**Standard Width Range - MEGADYNE will cut to desired width upon request.*

| MEGADYNE POLYURETHANE TIMING BELTS | |
|---|---|
| SUPPLIED AS | Open-ended, endless, joined, PPJ |
| LENGTH | MEGALINEAR on request<br>MEGAFLEX 1,5 - 22,60 m |
| WIDTH | 12 - 150 mm |
| PITCH | T10, AT5, AT10, AT20, RPP14, QST8, QST14, GW14, GW20 |
| TENSION MEMBER | Steel, HP, HF, HPF, stainless steel, Kevlar® |
| FEATURES | High resistance, customisable solutions |

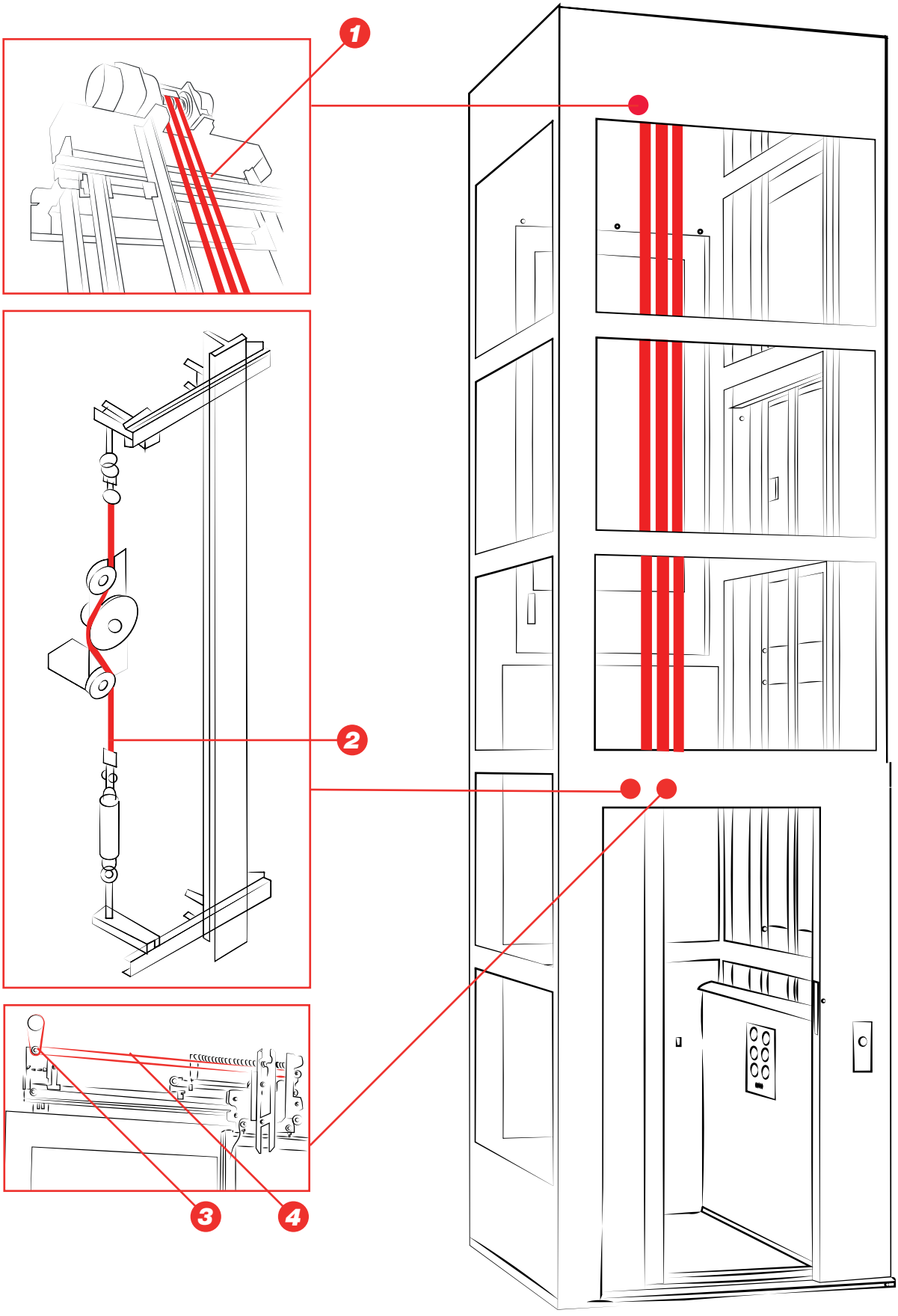
| MEGADYNE V-BELTS | |
|---|---|
| SUPPLIED AS | Endless, wrapped or raw edge |
| LENGTH | 410 - 16 992 mm |
| WIDTH | According to section |
| PITCH | Wrapped, narrow, raw edge |
| TENSION MEMBER | Polyester |
| FEATURES | Long life and good performance |

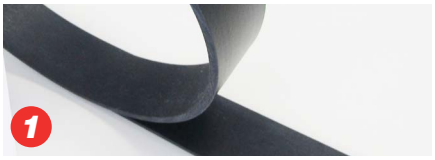
| MEGADYNE PV RIBBED BELTS | |
|---|---|
| SUPPLIED AS | Endless |
| LENGTH | 350 - 16 764 mm |
| WIDTH | Consult MEGADYNE |
| PITCH | PH, PJ, PK, PL, PM |
| TENSION MEMBER | Polyester |
| FEATURES | Long life and good performance |

# METAL DRIVE COMPONENTS

Use an extensive range of pulleys and accessories like timing bars, flanges, clamping plates, couplings to design a complete drive transmission system.


# ELEVATORS






### MEGALINEAR P3.3

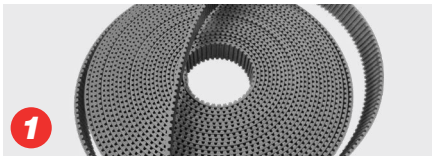
Thermoplastic flat PU belts, 92 ShA, supplied as open length rolls and available in multiple versions: standard,  light, and flame-retardant (on request)..

- Operating in a wide variety of environments
- Space-saving
- Reduced elongation under load
- Fully sealed belt with high wear resistance


### MEGALINEAR

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts. (RPP14XHP, GW14, GW20, QST8, QST14).

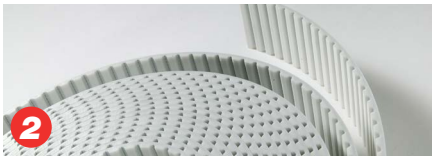
- Constant dimension and length
- High wear resistance




### RUBBER OPEN-ENDED TIMING BELTS

Rubber base timing belts come from sleeves for spiral cut belts and from press for straight cut belts (RPP14 Steel).

- Very limited elongation
- Maximum traction load capacity




### MEGALINEAR

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts.

- Constant dimension and length
- High wear resistance


### PV RUBBER RIBBED BELTS

Endless belts with longitudinal V-shaped grooves, which combine the benefits of flat belts and V-belts.

- Improved power performance by increasing the number of ribs
- Compact smooth running drive system with low vibration


### V-BELT

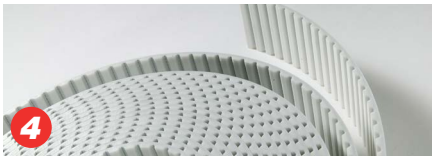
Wrapped V-belts, made of polybutadiene compound in a wide variety of sizes.

- Smooth-running operation.
- High transmission efficiency


### MEGADYNE MEGASYNC™ RUBBER ENDLESS TIMING BELTS (RPP)

Rubber endless timing belts made of high quality rubber compound and high performance tension members (RPP5, RPP8).

- High power rating
- Reduced width and compact pulleys
- Low noise




### MEGALINEAR

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts (RPP5, RPP8, STD5, STD8).

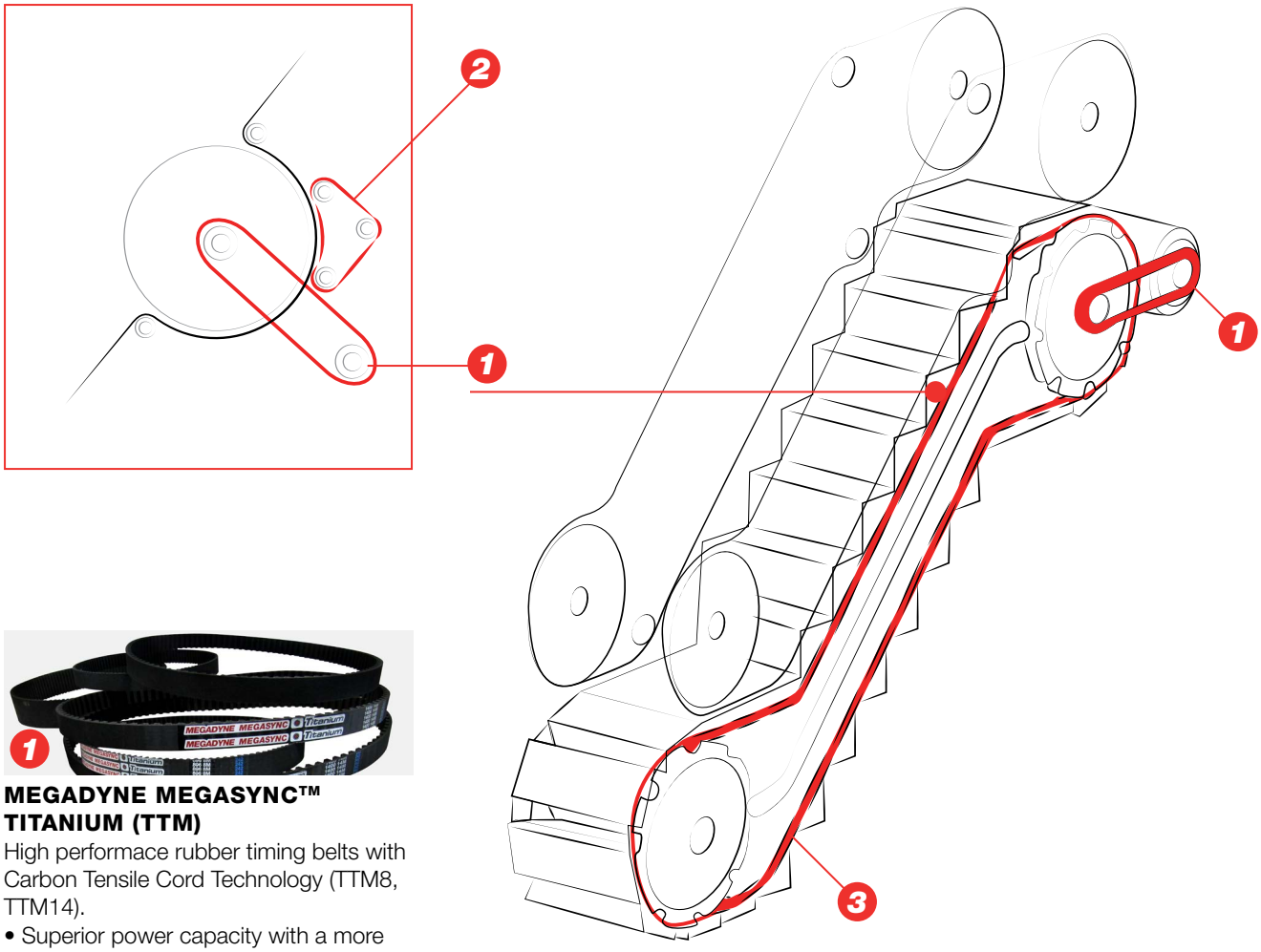
- Constant dimension and length
- High wear resistance


### RUBBER OPEN-ENDED TIMING BELTS

Rubber base timing belts come from sleeves for spiral cut belts and from press for straight cut belts (RPP5, RPP8).

- Very limited elongation
- Maximum traction load capacity

# ESCALATORS







**MEGADYNE MEGASYNC™ TITANIUM (TTM)**

High performace rubber timing belts with Carbon Tensile Cord Technology (TTM8, TTM14).

- Superior power capacity with a more compact drive system
- High stability and resistance
- Long life cycles, cost-efficiency


**MEGADYNE MEGASYNC™ GOLD2 (GLD2)**

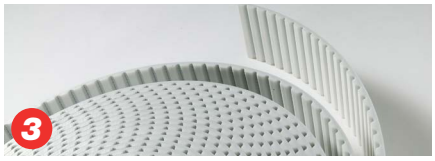
Rubber endless timing belts with spiral fiberglass cords and RPP profile (GLD2 8M, GLD2 14M).

- Low-friction coefficient
- High transmission efficiency
- Long-lasting
- Antistatic


**PV RUBBER RIBBED BELTS**

Endless belts with longitudinal V-shaped grooves which combine the benefits of flat belts and V-belts.

- Improved power performance by increasing the number of ribs
- Compact smooth running drive system with low vibration

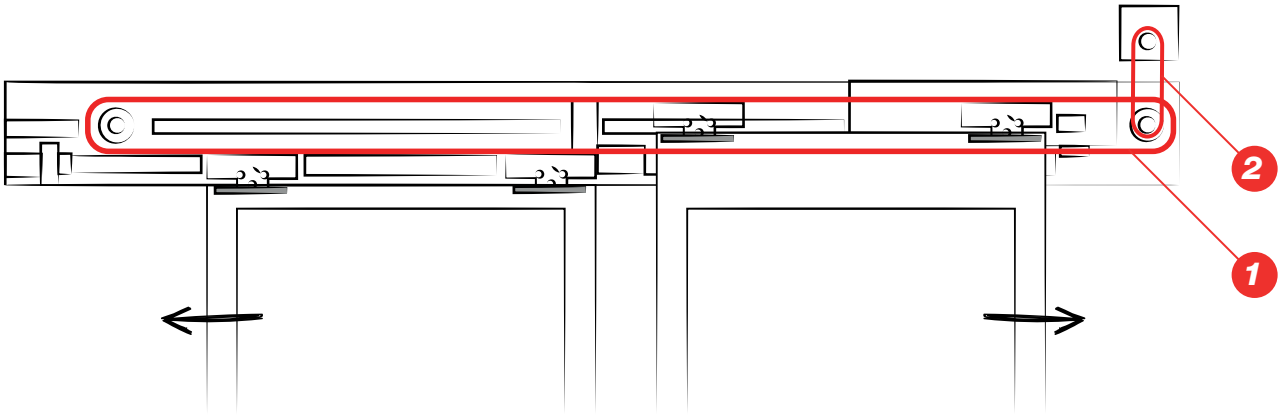


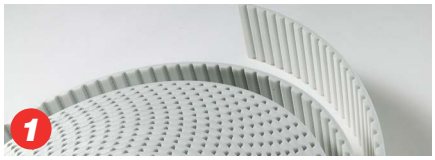

**MEGALINEAR**

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts.

- Standard steel or high performance cords
- Constant dimension and length
- High wear resistance

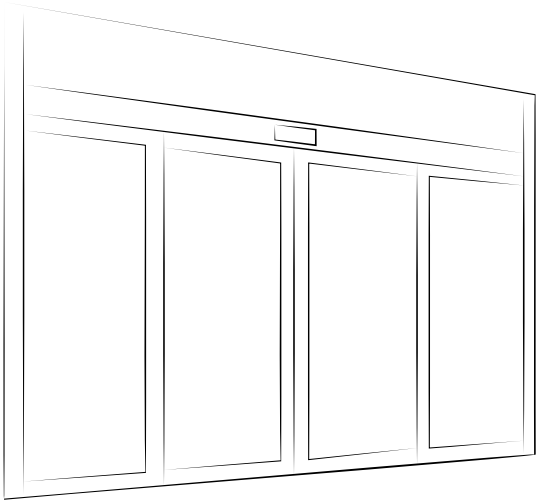
# AUTOMATIC DOORS




**MEGALINEAR**

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts.
- Constant dimension and length
- High wear resistance




**RUBBER OPEN-ENDED TIMING BELT**

Rubber base timing belts come from sleeves for spiral cut belts and from press for straight cut belts (RPP5, RPP8).
- Very limited elongation
- Maximum traction load capacity

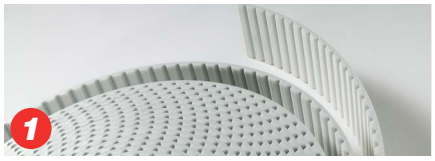

**MEGADYNE MEGASYNC™ RUBBER ENDLESS TIMING BELTS (RPP)**

Rubber endless timing belts made of high quality rubber compound and high performance tension members (RPP5, RPP8).
- High power rating
- Reduced width and compact pulleys
- Low noise


**PV RUBBER RIBBED BELTS**

Endless belts with longitudinal V-shaped grooves which combine the benefits of flat belts and V-belts.
- Improved power performance by increasing the number of ribs
- Compact smooth running drive system with low vibration

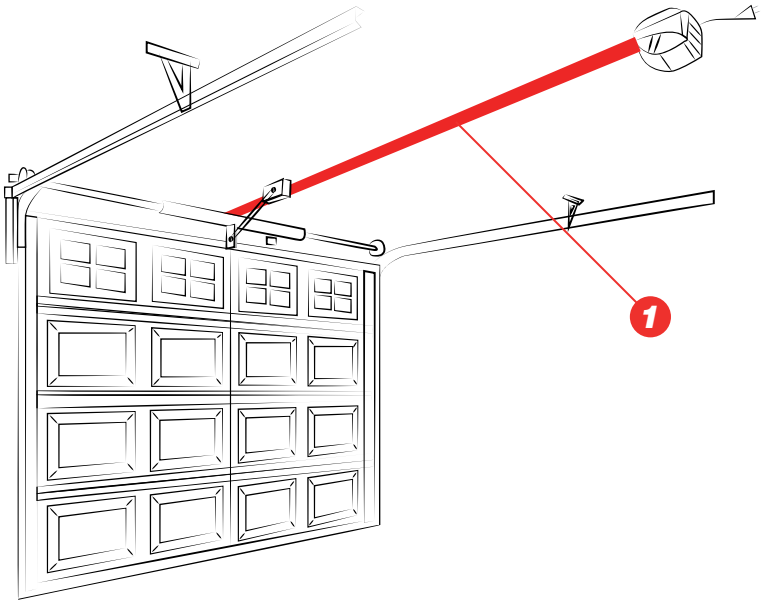
# GARAGE DOORS




**MEGALINEAR**

Thermoplastic PU 92 ShA belts with S & Z parallel cords (standard steel or high performance), supplied as open length rolls or as endless jointed belts.

- Standard steel or high performance cords
- Constant dimension and length
- High wear resistance

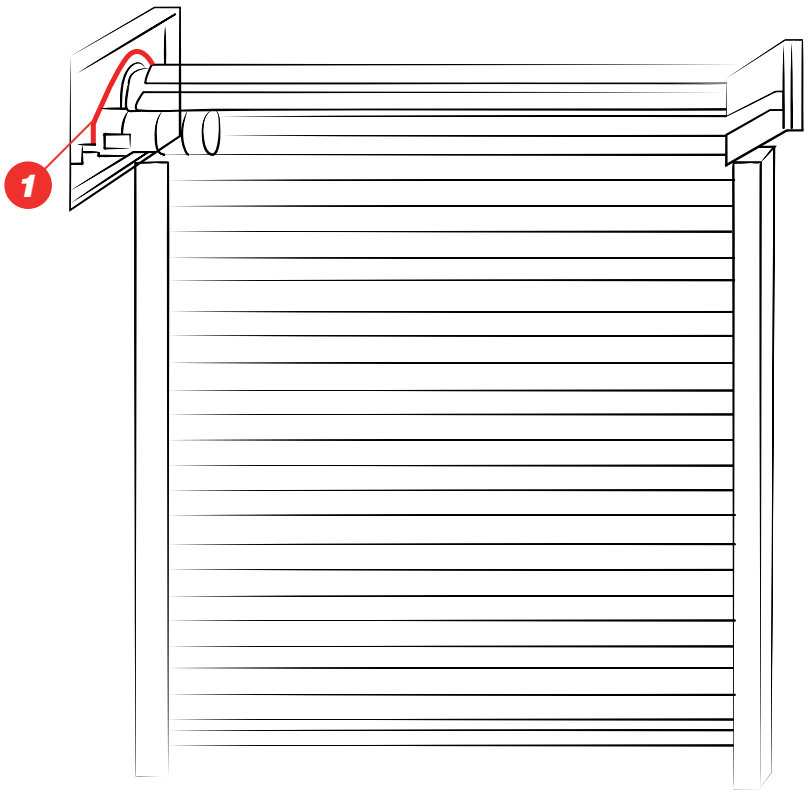



# ROLL-UP DOORS

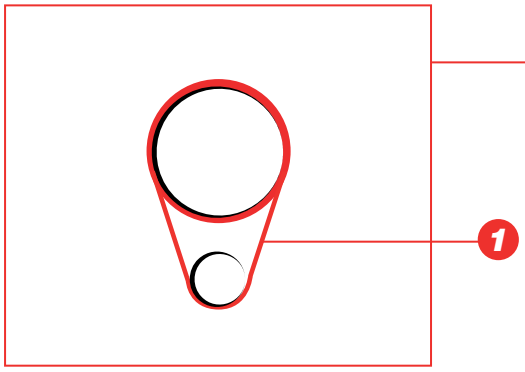

**MEGADYNE MEGASYNC™ RUBBER ENDLESS TIMING BELTS (RPP)**

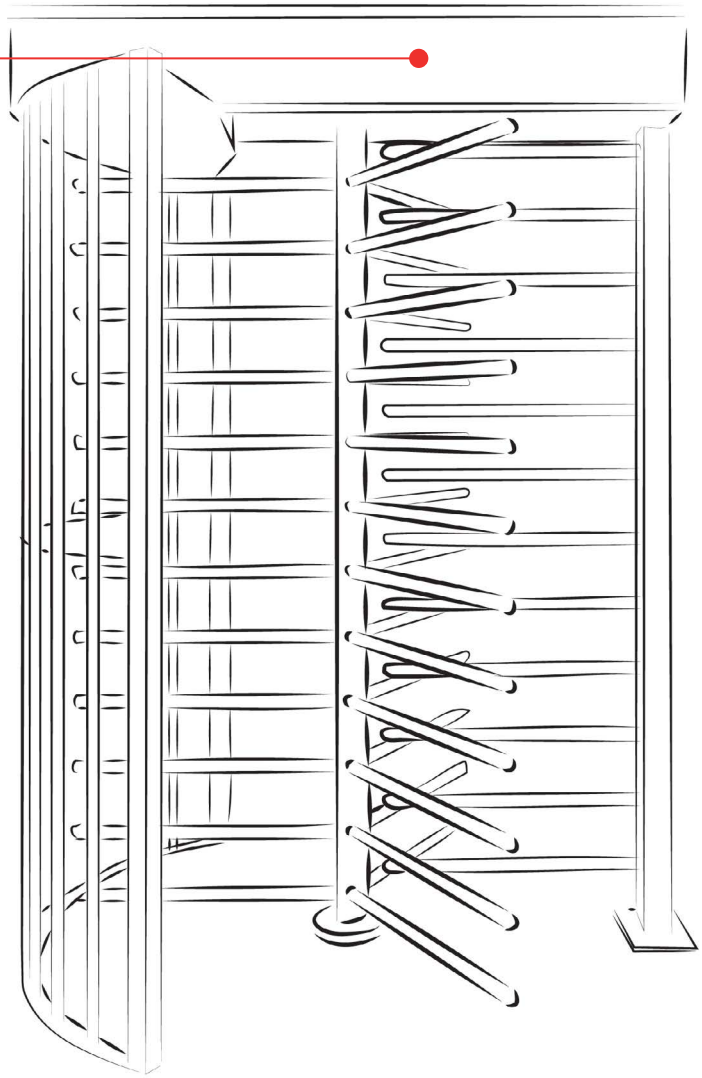
Rubber endless timing belts made of high quality rubber compound and high performance tension members (RPP5, RPP8).

- High power rating
- Reduced width and compact pulleys
- Low noise

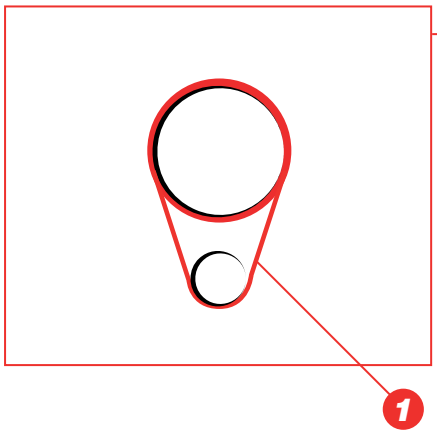


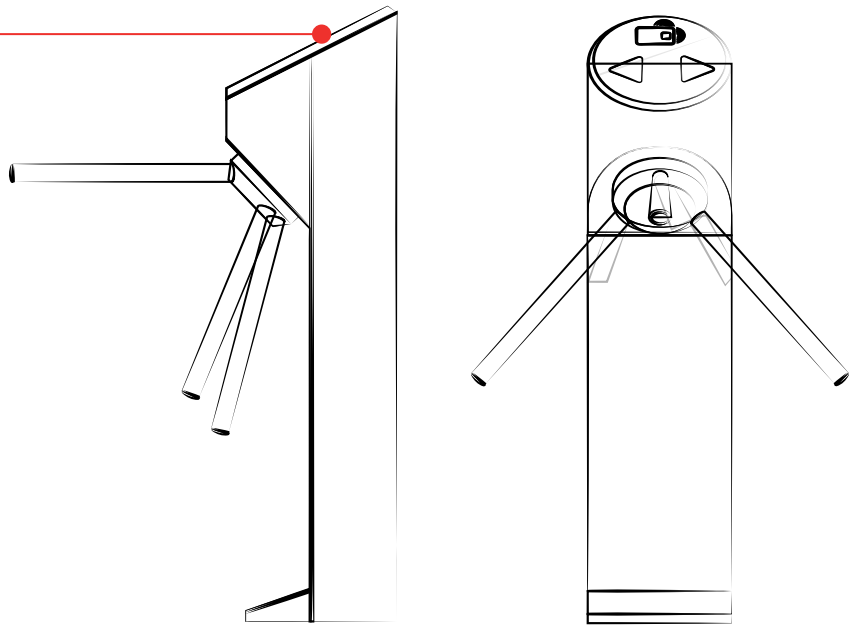
# TURNSTILES

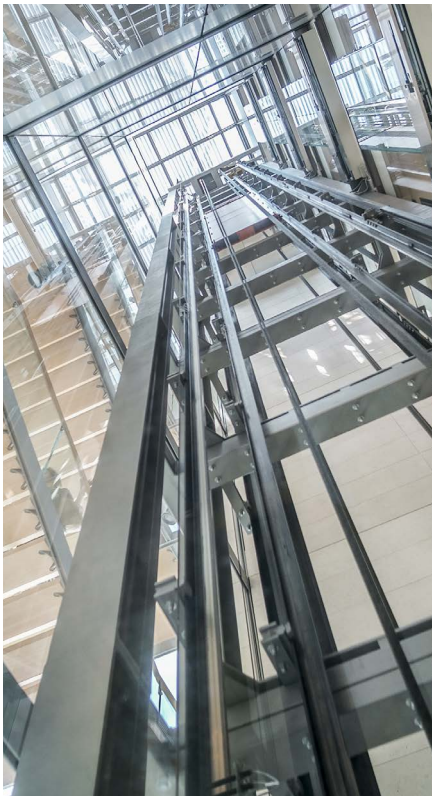



**MEGADYNE MEGASYNC™ RUBBER ENDLESS TIMING BELTS (RPP)**
Rubber endless timing belts made of high quality rubber compound and high performance tension members (RPP5, RPP8).
- High power rating
- Reduced width and compact pulleys
- Low noise





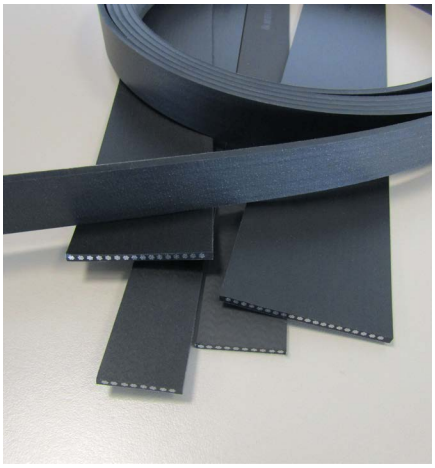
# CASE STUDY

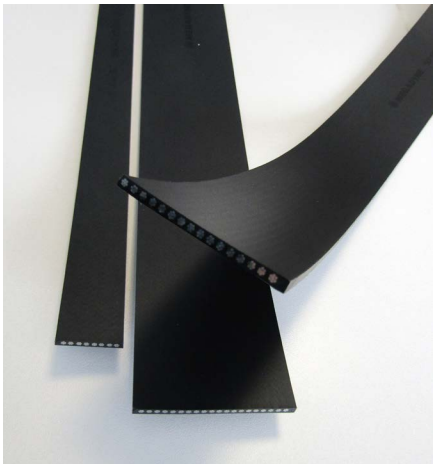
APPLICATION: Elevator traction system
PREVIOUS SOLUTION: Rope traction system
CHALLENGES OF THAT SYSTEM:

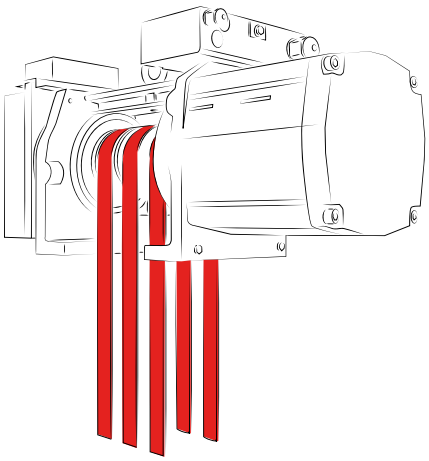
- Cabin vibration and oscillation
- Oxidation (rust) of exposed steel
- Higher energy consumption
- Greater wear on the traction sheave
- Larger traction sheaves require extra headroom (machine room)
- Large cabin rollers
- Short lifetime for the traction rope

**MEGADYINE SOLUTION: MEGALINEAR P3.3**

- No rust
- No vibration and less oscillation
- Reduced energy consumption
- Negligible traction sheave wear
- Smaller motor and sheave = Machine Room-Less
- Compact cabin peripherals
- Longer lifetime

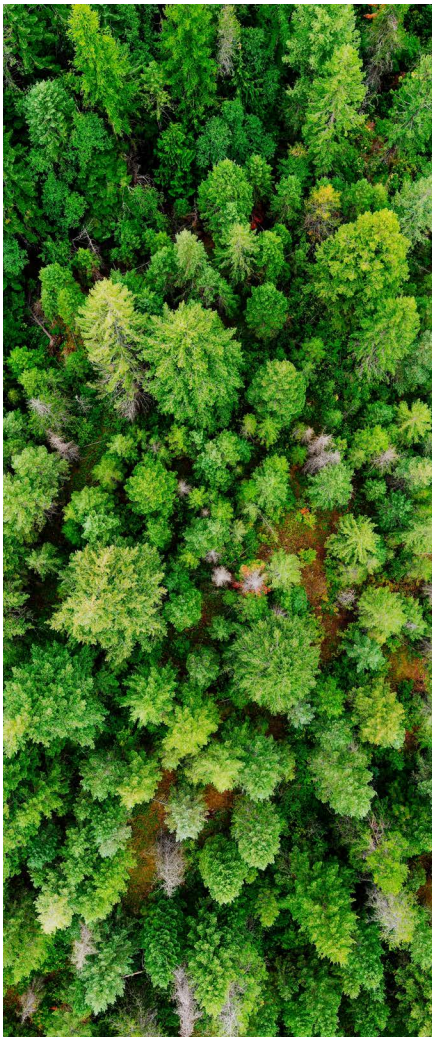






# P3.3 CERTIFICATIONS

All P3.3 belts are compliant with EN 81-20 / EN 81-50 certifications.
In addition, both standard and FR versions obtained ASME 17.1 certification for USA market and ASME 17.1 FT1 rating for whole FR range.
Scan the QR Code to see the Liftinstituut Certificate.



# ABOUT SUSTAINABILITY

Sustainability has always been a guiding principle for Ammega and all members of Ammega Group. We are proud to work with EcoVadis to monitor and evaluate our environmental, social and ethical performance.

At Megadyne, we are committed to becoming more and more responsible towards the world by reducing our impact on the planet. We work on new technological raw materials made by partners using the most ecological sustainable technologies. Our team has been working on the continuous improvement of products, services, and solutions for the benefit of society and the environment. Our vision is to be the local partner of choice for sustainable belting solutions around the globe.

Important sustainability achievements include improvements throughout the supply chain and in tracking our carbon footprint as well as the launch of new sustainable solutions for our clients. Major steps forward on sustainable investments are slowly bringing us closer to goals set in the Paris Agreement. We are on a journey towards a sustainable future, continually revising our plans and raising the level of our ambitions wherever possible. Our business performance and successes are key factors in defining our impact on the economic, social, and natural environment. We take the responsibility for this impact for all stakeholders and make every endeavour strengthen our roles as conscientious corporate citizens.

Megadyne, as a Member of Ammega Group, is embracing a more sustainable development approach and this has become our core long-term business strategy as demonstrated by the latest belting solutions designed for elevator segment:
Megalinear P3.3 and Megalinear QST.
Longer lifetime and high resistance to wear result in cost savings as while reduced motor size and pulley diameter lead to significantly reduced energy consumption.

# OTHER CERTIFICATIONS

All Megadyne polyurethane power transmission belts comply with ISO 14001, ISO 9001 and European RoHS Directive. The belts are made with raw materials in compliance with REACH standards, meaning that all belts, pulleys, toothed bars, couplings blocking units and other items supplied by Megadyne do not contain one (or several) of the SVHC in Candidate List above a concentration of 0.1% w/w.

All Megadyne rubber power transmission belts are made in accordance with the Quality Management System Standard: ISO 9001:2015 and ISO 14001:2015. These certificates are valid for the following field of application: design, manufacture and sale of power transmission belts. Marketing of transmission and transport elements (pulleys, tensiometers).

MEGADYNE

# Discover Your Local Contacts

The local partner of choice
for sustainable power transmission belting solutions
around the globe.

Scan the QR code
and find your local
contact

**General contact information:**
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United States

megadynegroup.com



09.2025