



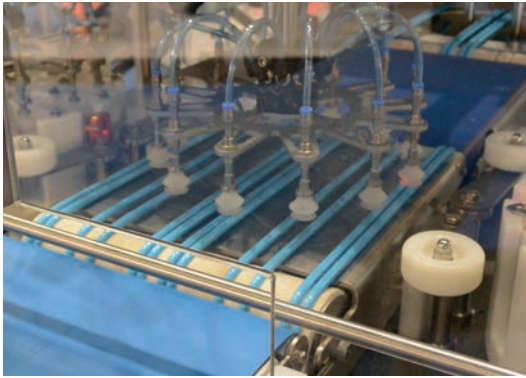
**MEGAWELD**



**MEGADYNE**

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# INTRODUCTION TO MEGAWELD



Megaweld thermoplastic polyurethane, trapezoidal and round belts are manufactured by a unique extrusion process. They are suitable for a wide range of applications and industries.

Megaweld are used for conveying or for light power transmission in the following areas:

- ceramic industry
- glass industry
- wood industry
- brick and tile industry
- gardening and horticulture
- packaging industry
- paper and board industry
- pharmaceutical industry
- food industry
- robotic systems
- automotive

## MEGAWELD MATERIALS

Megadyne uses only virgin polymers to guarantee the best quality and the outstanding performance in all industrial applications.

## MEGAWELD MAIN FEATURES

- High flexibility
- High resistance to pollution
- Good abrasion resistance
- Good welding characteristics
- Smooth running

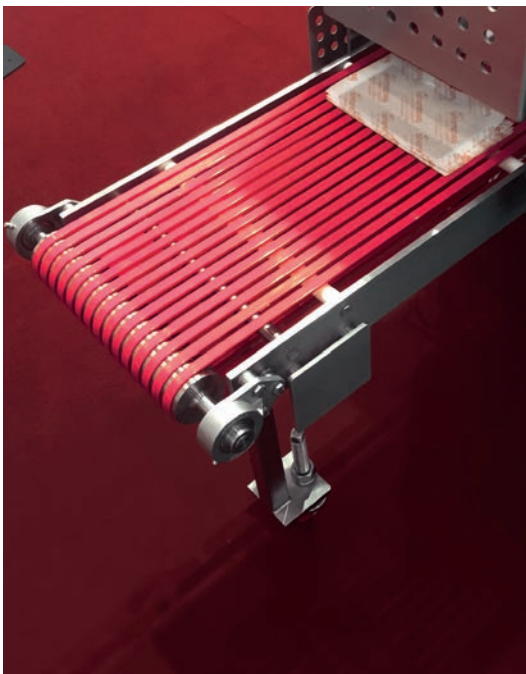
Special features as hydrolysis resistance and high modulus of elasticity (e.i.) on request.

## MEGAWELD TYPES (Standard & made to order)

- Blue FDA approved Polyurethane
- Water and chemical resistance
- Metal detectable Polyurethane on request with m.o.q.
- UV resistant materials
- Fiber glass reinforced
- Standard reinforced Kevlar cords. Polyester cords on request.
- Other colours on request
- Soft grip cover

## MEGAWELD FINISHES

- Gloss finishing
- Matt finishing
- Rough finishing
- Textured finishing
- Metallised finishing



### POLYURETHANE V-BELTS

Trapezoidal thermo-welded polyurethane belts are available in different hardnesses and colours. Available with polyester\* or aramide reinforcements. They are suitable for many industrial sectors including the food industry.

**85 ShA**

Z-A-B-C

**85 ShA reinforced**

A-B-C

**85 ShA FDA**

Z-A-B-C

**85 ShA reinforced FDA**

A-B-C

**90 ShA**

Z-A-B-C

**90 ShA reinforced**

Z-A-B-C



### POLYURETHANE COGGED V-BELTS

Cogged trapezoidal thermo-welded polyurethane belts are available in different hardnesses and colours. Available with polyester\* or aramide reinforcements.

Cogged version allows the use of smaller pulleys.

**90 ShA**

Z-A-B-C

**90 ShA reinforced**

A-B-C



### POLYURETHANE ROUND BELTS

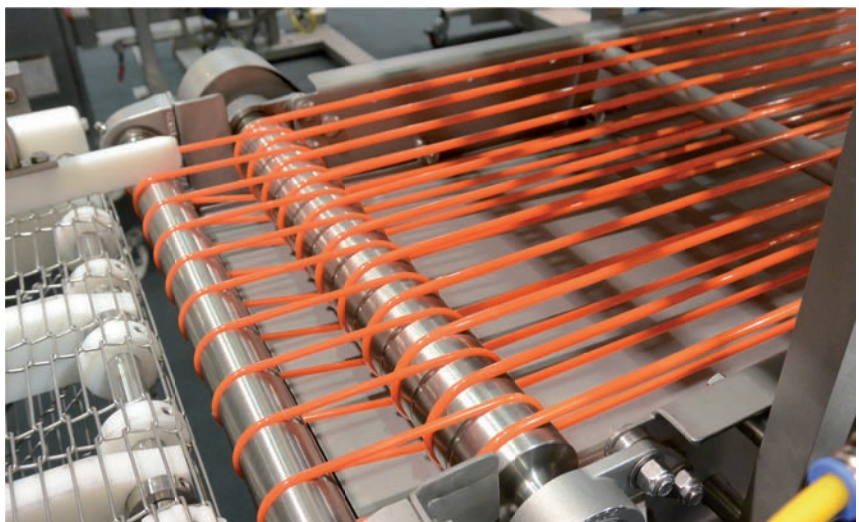
Round thermo-welded polyurethane belts are available in different hardnesses and colours. Available with polyester\* or aramide reinforcements. Particularly effective, thanks to the torsion characteristics, for line-shaft and powered-roller conveyor application.

**PR 85 ShA**

Ø (mm): 2\*-3-4-5-6-7\*-8-9-10-12-15-18\*-20\*

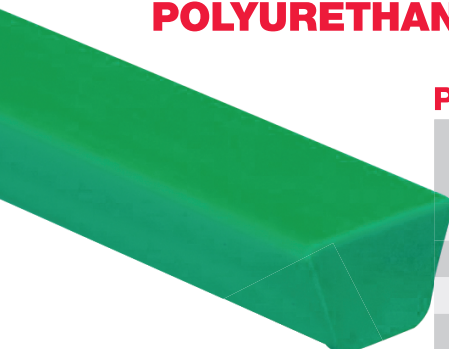
**85 ShA reinforced**

Ø (mm): 6\*-7\*-8-9\*-10-12-15\*-18\*



\* On request

POLYURETHANE V-BELTS



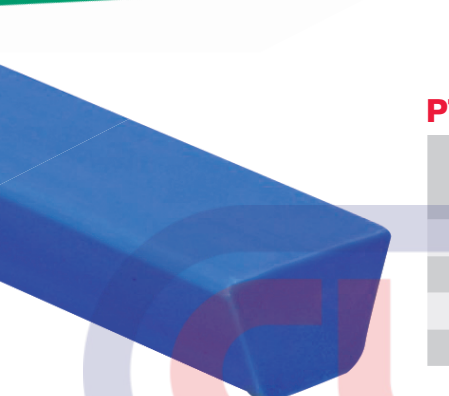
PT 85

| Code    | Cross Section | Traction Force | Corresponding    | Minimum Pulley |
|---------|---------------|----------------|------------------|----------------|
|         | BxH (mm)      | (N)            | Elongation (%)** | Diameter       |
| PT 85 Z | 10x6          | 60             | 8                | 55             |
| PT 85 A | 13x8          | 120            | 8                | 70             |
| PT 85 B | 17x11         | 220            | 8                | 110            |
| PT 85 C | 22x14         | 360            | 8                | 130            |



PT 85 RK

| Code       | Cross Section | Traction Force | Corresponding    | Minimum Pulley |
|------------|---------------|----------------|------------------|----------------|
|            | BxH (mm)      | (N)            | Elongation (%)** | Diameter       |
| PT 85 RK A | 13x8          | 250            | 0,5              | 80             |
| PT 85 RK B | 17x11         | 400            | 1                | 125            |
| PT 85 RK C | 22x14         | 600            | 1,5              | 200            |



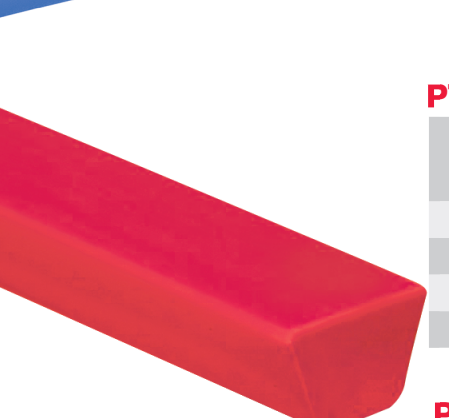
PT 85 FDA (BLUE)

| Code        | Cross Section | Traction Force | Corresponding    | Minimum Pulley |
|-------------|---------------|----------------|------------------|----------------|
|             | BxH (mm)      | (N)            | Elongation (%)** | Diameter       |
| PT 85 FDA Z | 10x6          | 60             | 8                | 55             |
| PT 85 FDA A | 13x8          | 120            | 8                | 70             |
| PT 85 FDA B | 17x11         | 220            | 8                | 110            |
| PT 85 FDA C | 22x14         | 360            | 8                | 130            |



PT 85 RK FDA (BLUE)

| Code           | Cross Section | Traction Force | Corresponding    | Minimum Pulley |
|----------------|---------------|----------------|------------------|----------------|
|                | BxH (mm)      | (N)            | Elongation (%)** | Diameter       |
| PT 85 RK FDA A | 13x8          | 250            | 0,5              | 80             |
| PT 85 RK FDA B | 17x11         | 400            | 1                | 125            |
| PT 85 RK FDA C | 22x14         | 600            | 1,5              | 200            |



PT 90

| Code    | Cross Section | Traction Force | Corresponding  | Minimum Pulley |
|---------|---------------|----------------|----------------|----------------|
|         | BxH (mm)      | (N)            | Elongation (%) | Diameter       |
| PT 90 Z | 10x6          | 110            | 5              | 65             |
| PT 90 A | 13x8          | 200            | 5              | 80             |
| PT 90 B | 17x11         | 360            | 5              | 130            |
| PT 90 C | 22x14         | 600            | 5              | 180            |



PT 90 RK

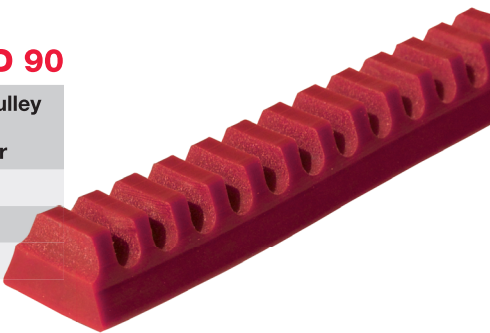
| Code       | Cross Section | Traction Force | Corresponding  | Minimum Pulley |
|------------|---------------|----------------|----------------|----------------|
|            | BxH (mm)      | (N)            | Elongation (%) | Diameter       |
| PT 90 RK A | 13x8          | 300            | 1              | 110            |
| PT 90 RK B | 17x11         | 500            | 1,5            | 140            |
| PT 90 RK C | 22x14         | 750            | 1,5            | 230            |

\*\* Indicative values based on the average of test results.

POLYURETHANE COGGED V-BELTS

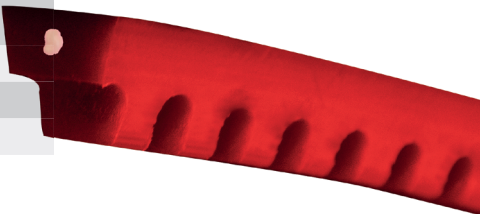
PTD 90

| Code     | Cross Section<br>BxH (mm) | Traction Force<br>(N) | Corresponding<br>Elongation (%)** | Minimum Pulley<br>Diameter |
|----------|---------------------------|-----------------------|-----------------------------------|----------------------------|
| PTD 90 A | 13x8                      | 140                   | 5                                 | 65                         |
| PTD 90 B | 17x11                     | 250                   | 5                                 | 90                         |
| PTD 90 C | 22x14                     | 420                   | 5                                 | 120                        |



PTD 90 RK

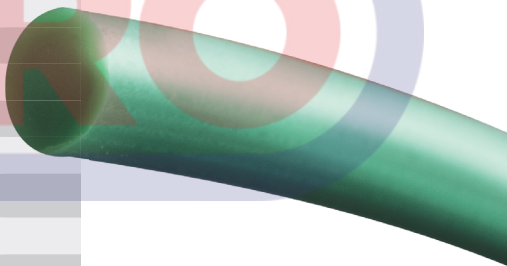
| Code        | Cross Section<br>BxH (mm) | Traction Force<br>(N) | Corresponding<br>Elongation (%)** | Minimum Pulley<br>Diameter |
|-------------|---------------------------|-----------------------|-----------------------------------|----------------------------|
| PTD 90 RK A | 13x8                      | 300                   | 1                                 | 70                         |
| PTD 90 RK B | 17x11                     | 500                   | 1,5                               | 110                        |
| PTD 90 RK C | 22x14                     | 750                   | 1,5                               | 150                        |



POLYURETHANE ROUND BELTS

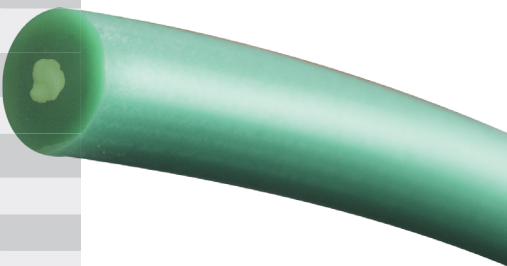
PR 85 NL (Rough)

| Code         | Cross Section<br>Diameter (mm) | Traction Force<br>(N) | Corresponding<br>Elongation (%)** | Minimum Pulley<br>Diameter |
|--------------|--------------------------------|-----------------------|-----------------------------------|----------------------------|
| PR 85 NL 2*  | 2                              | 4,7                   | 8                                 | 10                         |
| PR 85 NL 3   | 3                              | 10                    | 8                                 | 15                         |
| PR 85 NL 4   | 4                              | 19                    | 8                                 | 25                         |
| PR 85 NL 5   | 5                              | 29                    | 8                                 | 30                         |
| PR 85 NL 6   | 6                              | 42                    | 8                                 | 40                         |
| PR 85 NL 7*  | 7                              | 57                    | 8                                 | 50                         |
| PR 85 NL 8   | 8                              | 75                    | 8                                 | 55                         |
| PR 85 NL 9   | 9                              | 95                    | 8                                 | 65                         |
| PR 85 NL 10  | 10                             | 118                   | 8                                 | 75                         |
| PR 85 NL 12  | 12                             | 170                   | 8                                 | 90                         |
| PR 85 NL 15  | 15                             | 265                   | 8                                 | 120                        |
| PR 85 NL 18* | 18                             | 381                   | 8                                 | 150                        |
| PR 85 NL 20* | 20                             | 462                   | 8                                 | 200                        |



PR 85 NL RK (Rough)

| Code            | Cross Section<br>diameter (mm) | Traction Force<br>(N) | Corresponding<br>Elongation (%)** | Minimum Pulley<br>Diameter |
|-----------------|--------------------------------|-----------------------|-----------------------------------|----------------------------|
| PR 85 NL RK 6*  | 6                              | 70                    | 0,5                               | 50                         |
| PR 85 NL RK 7*  | 7                              | 100                   | 0,5                               | 60                         |
| PR 85 NL RK 8   | 8                              | 120                   | 0,5                               | 75                         |
| PR 85 NL RK 9*  | 9                              | 170                   | 1                                 | 85                         |
| PR 85 NL RK 10  | 10                             | 230                   | 1                                 | 90                         |
| PR 85 NL RK 12  | 12                             | 330                   | 1,5                               | 120                        |
| PR 85 NL RK 15* | 15                             | 500                   | 1,5                               | 150                        |
| PR 85 NL RK 18* | 18                             | 680                   | 1,5                               | 180                        |



\* On request      \*\* Indicative values based on the average of test results.

## SPECIAL FABRICATIONS ON REQUEST

Megadyne can offer varied specialist fabrications processes, increasing Megaweld features like grip, temperature range and wear resistance. Megadynes technical department are available for design advice, to reach the optimal design solution.

### V-Belt with PVC NAP coating

Available in the trapezoidal or cogged versions.

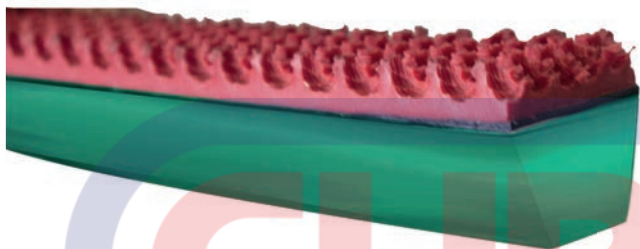
The Gripface coating is used to gain an increased surface coefficient of friction. This is particularly useful to control products at high speeds or in inclined or declined applications. This cover is resistant to common lubricant oils and water.



### V-Belt with rubber NAG coating

Available in the trapezoidal or cogged versions.

The Gripface coating is used to gain an increased surface coefficient of friction. This is particularly useful to control products at high speeds or in inclined or declined applications. Widely used on packaging machines. This cover is very wear resistant.



### V-Belt with aramide felt surface

Available in the trapezoidal or cogged versions.

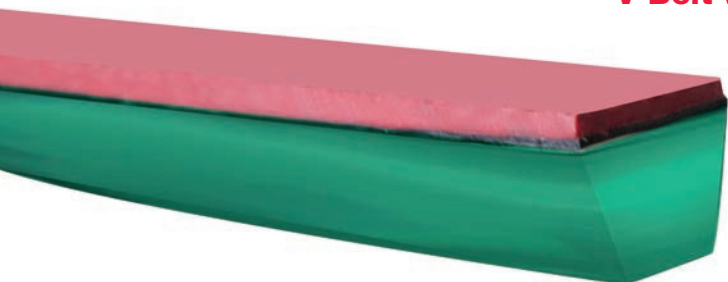
The coating is used for conveying hot products, giving high heat resistance and a lower friction coefficient.



### V-Belt with TENAX surface

Available in the trapezoidal or cogged versions.

The coating is used for conveying abrasive materials. The coating offers a high friction coefficient and excellent wear resistance.



## SPECIAL MATERIALS ON REQUEST

### HIGH UV RESISTANT MATERIAL

- Resistant to UV light
- Reduces fading, yellowing and premature ageing

### REINFORCED MATERIALS

- Standard reinforced Kevlar cords. Polyester cords on request.
- Higher loadings
- Lower elongation

### DETECTABLE FOR THE FOOD INDUSTRY

- Materials that can be sensed by metal detectors on request with m.o.q.
- Blue and Orange increases visual detection rates

### EXTRA CLEAR

- High clarity transparent grades available
- Can also be UV resistant to prolong the clarity level

### CO-EXTRUSION

- Materials of different types and hardness can be extruded together

### SURFACE FINISH

- Special surface finishes
- Profiling the surface

### POST MANUFACTURE PROCESSING

- Profiles can be treated after extrusion
- Oven heating to pre-defined temperatures over 24 hours
- Improves the mechanical properties and stability

### SPECIAL TREATMENT

### SPECIAL FABRICATION

### COGGED

- All Vee profiles can be cogged
- Increases flexibility
- Improves the minimum pulley rating
- Add "D" as a suffix to the belt code

### ADDED COVERS

- PU Soft grip
- PVC Super grip
- Ultra grip rubber
- Polyester
- Felt
- Cellular foams
- Linatex

### ENDLESSING

- We can supply individual belts, endlessed to your specified lengths
- Equipment available for clients to endless weld in house

### CALENDERED SHEET

- Sheet at 400mm and 700mm available
- These can be endlessed to produce tapes and bands for special applications
- Finished belts can also be profiled with different surface finishes

## CHEMICAL PRODUCT RESISTANCE\*

Megadyne thermoplastic polyurethane V-Belts, have many varied industrial applications and may be in contact with different contaminants. The TPU resistance to chemical depends on many factors, such as temperature, chemical concentration and TPU hardness.

\*Chemical resistance declaration on request.

The data and information contained in the present catalogue are up-to-dated to the date of the catalogue's printing. Megadyne Spa reserves the right to modify the specifications, performances and other information relating to the belts described in the present catalogue, at any time at its own discretion, without any prior notice. For updating refer to our web site [www.megadynegroup.com](http://www.megadynegroup.com).

Technical specifications, performances and other information provided in the present catalogue are indicative and do not bound Megadyne unless such specifications, performances or other information are expressly agreed in the agreement with the customer.

We also recommend to read carefully the following documents in our web site [www.megadynegroup.com](http://www.megadynegroup.com):

- Megadyne General Conditions of Sale (comprising the warranty)
- Theoretical Belt Life
- Drive Components: Storage, Installation, Maintenance and Troubleshooting Handbook - Belts standard use condition and temperature.

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