MEGAWELD

MEGADYNE

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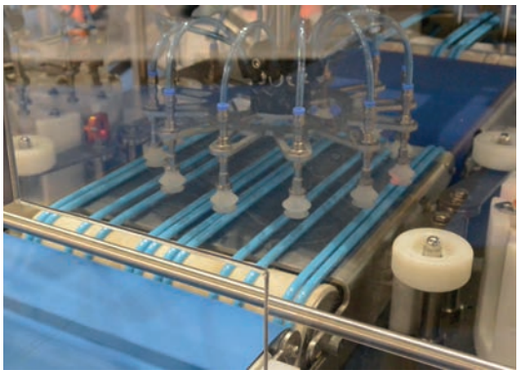
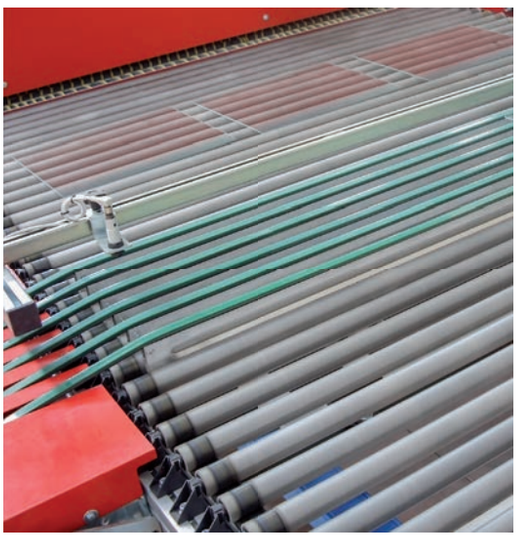
INTRODUCTION TO MEGAWELD



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
- packagin 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 perfomance in all industrial applications.

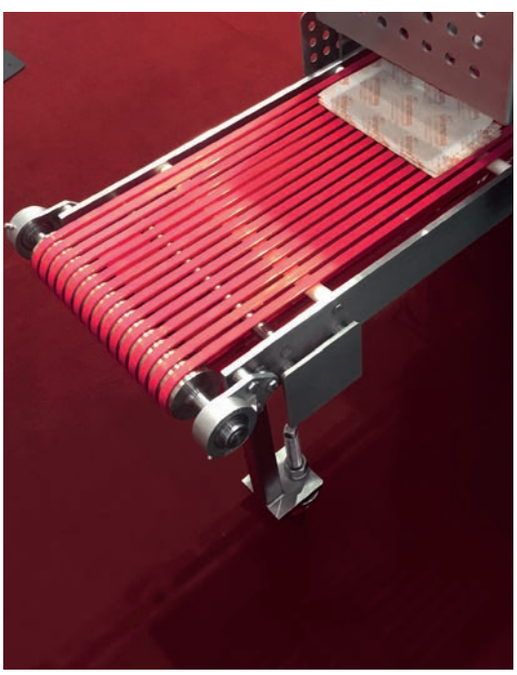
MEGAWELD MAIN FEATURES

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

Special features as hydrolysis resistance and high modulus of elasticy (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

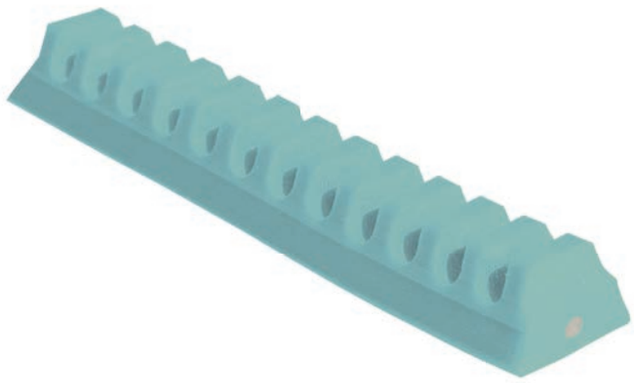
85 ShA reinforced FDA
A-B-C

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.

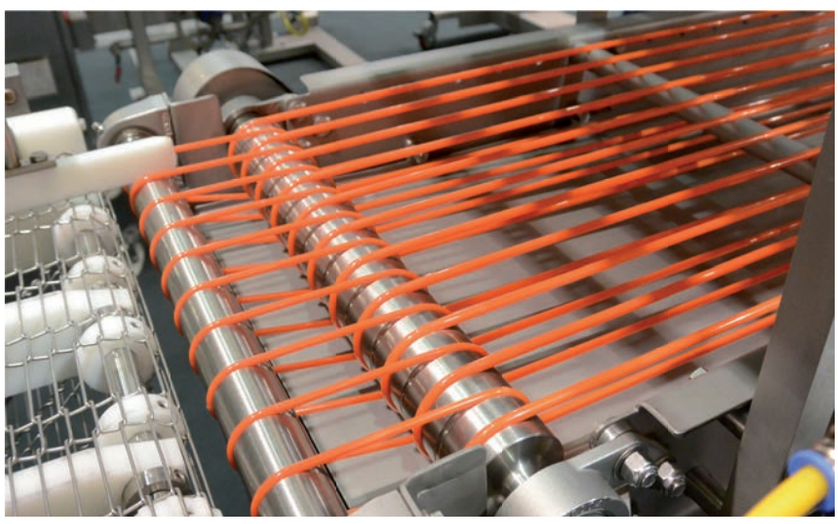


90 ShA
Z-A-B-C

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.

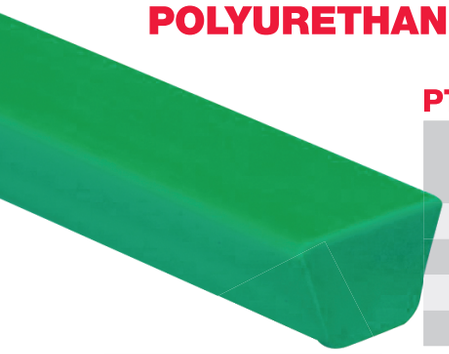


PR 85 ShA
Ø (mm): 2*-3-4-5-6-7*-8-9-10-12-15-18*-20*

85 ShA reinforced
Ø (mm): 6*-7*-8-9*-10-12-15*-18*

* **On request**

POLYURETHANE V-BELTS



PT 85

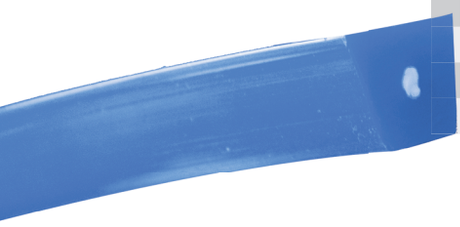
Code	Cross Section BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley Diameter
PT 85 Z	10x6	60	8	55
PT 85 A	13x8	120	8	70
PT 85 B	17x11	220	8	110
PT 85 C	22x14	360	8	130

PT 85 RK

Code	Cross Section BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley 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 BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley 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 BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley 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 BxH (mm)	Traction Force (N)	Corresponding Elongation (%)	Minimum Pulley 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

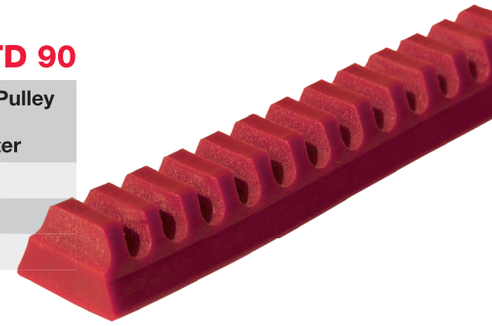
PT 90 RK

Code	Cross Section BxH (mm)	Traction Force (N)	Corresponding Elongation (%)	Minimum Pulley 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



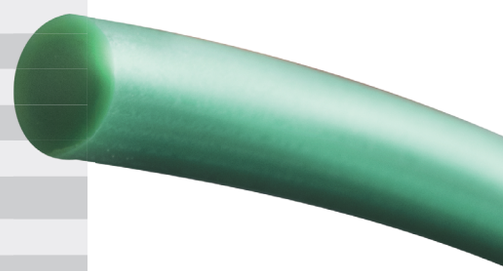
Code	Cross Section BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley Diameter
PTD 90 A	13x8	140	5	65
PTD 90 B	17x11	250	5	90
PTD 90 C	22x14	420	5	120

PTD 90 RK

Code	Cross Section BxH (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley 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 Diameter (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley 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)

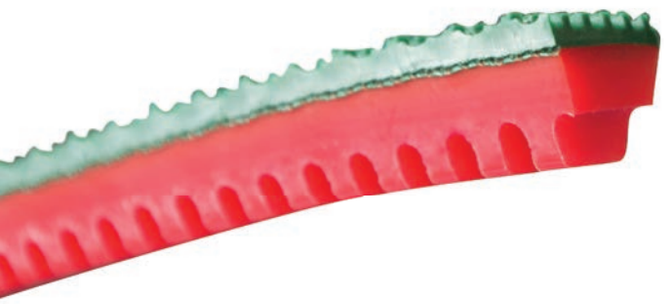
Code	Cross Section diameter (mm)	Traction Force (N)	Corresponding Elongation (%)**	Minimum Pulley Diameter
PR 85 NL RK 6*	6	70	0,5	50
PR 85 NL RK 7*	7	100	0,5	60
PR 85 NL RK 8	8	120	0,5	75
PR 85 NL RK 9*	9	170	1	85
PR 85 NL RK 10	10	230	1	90
PR 85 NL RK 12	12	330	1,5	120
PR 85 NL RK 15*	15	500	1,5	150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

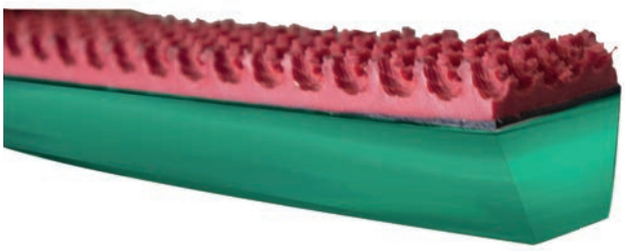
Megadyne can offer varied specialist fabrications processes, increasing Megaweld features like grip, temperature range and wear resistance. Megadynes technical department are available for design advice, to reach the optimal design solution.

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

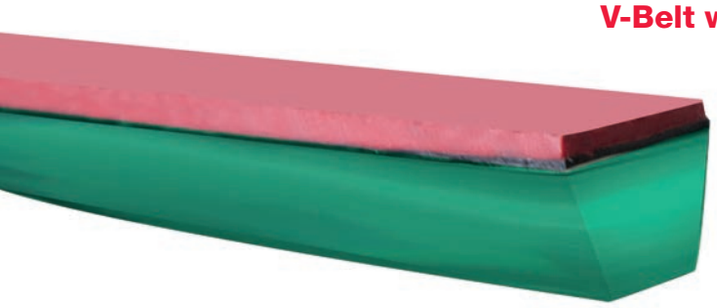


Available in the trapezoidal or cogged versions.
The Gripface coating is used to gain an increased surface coefficient of friction. This is particularly useful to control products at high speeds or in inclined or declined applications. Widely used on packaging machines. This cover is very wear resistant.

V-Belt with aramide felt surface

Available in the trapezoidal or cogged versions.
The coating 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

SPECIAL TREATMENT

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 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.

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

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