



**EUROPARTS**  
POLYURETHANE ELASTOMERS



# Product Catalogue

## Polyurethane Wheels

OUR WHEELS  
ROLLING  
THE FUTURE

# ABOUT US

We specialize in producing polyurethane casting elastomer parts for the mining and heavy industry

Europarts was founded in 1989 in Larisa, Greece, and at first it was engaged with manufacturing parts from rubber. In 1994 following the needs of the market and acquiring specialized knowledge and industrial equipment turned in producing polyurethane casting elastomer parts.

Industries from Europe, Australia, Brazil and the United States trust us to find cost-effective solutions while saving money on replacement and reducing downtime. With a long history of outstanding quality, superior product performance and excellent customer service, we are a trusted provider of polyurethane wheels, ranging from low quantity prototypes to full range production.



**EUROPARTS**  
POLYURETHANE ELASTOMERS

## THE MATERIAL

Polyurethane Elastomers is a unique industrial material with excellent physical, mechanical and environmental properties.

Polyurethane casting elastomer parts are manufactured in open molds, decreasing this way the cost. We build very large and complex parts with hardness ranging from 55 to 95 Shore A. The operating temperature ranges from  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ , giving us the ability to bond the polyurethane with metals, plastics and various other materials.



A few of the material's qualities:



Highly wear resistant



Highly abrasion resistant



Highly solvents resistant



Highly cut resistant



High bearing loading capacity



Reduce Noise level



Excessive Temperature Changes Resistance



Can be manufactured to any point on the durometer scale



Can be manufactured to a wide variety of colors

## QUALITY CONTROL

Our quality control begins with the careful selection of premium raw materials according to both the mechanical properties and the working conditions of the parts as indicated by the client.

After the production our technicians check the properties of the parts running lab tests to our fully equipped quality control laboratory, ensuring the premium quality, the long life span and the durability of our products.



WHEELS  
IN OUR  
PRODUCTION LINE





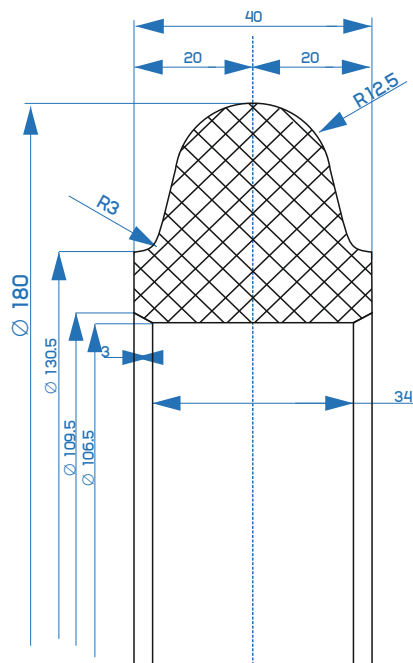
Ø180/106.5 x 40 mm



Fits to metal roller Ø 108 mm



Technical Properties according to customer's requirements



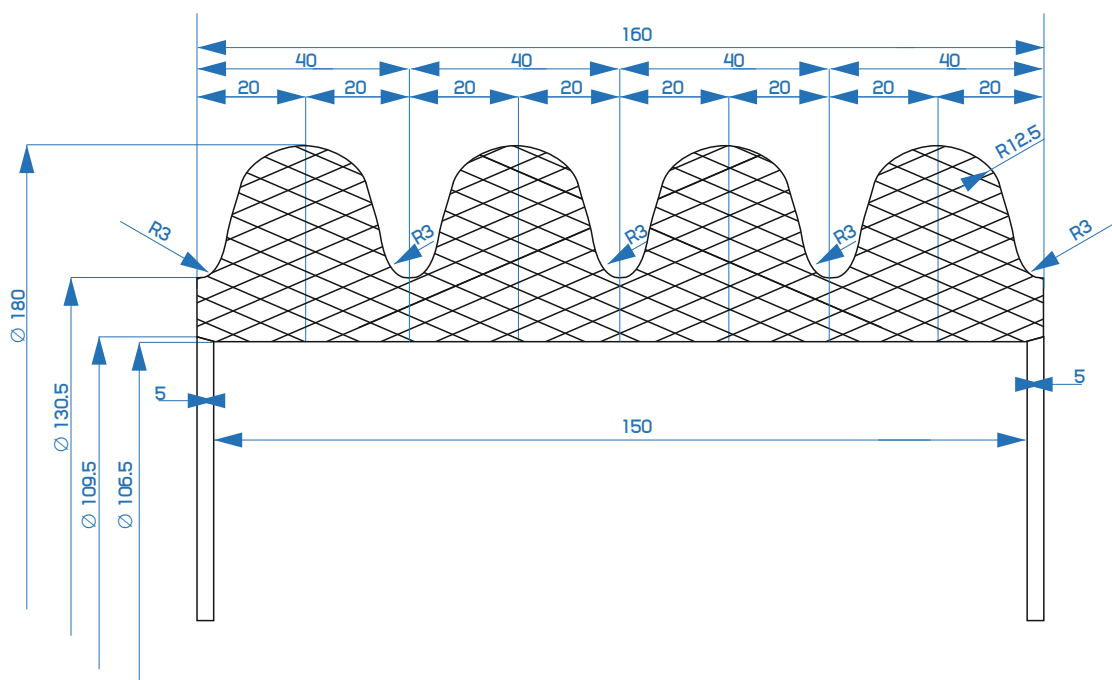
Ø180/106.5 x 160 mm



Fits to metal roller Ø 108 mm



Technical Properties according to customer's requirements





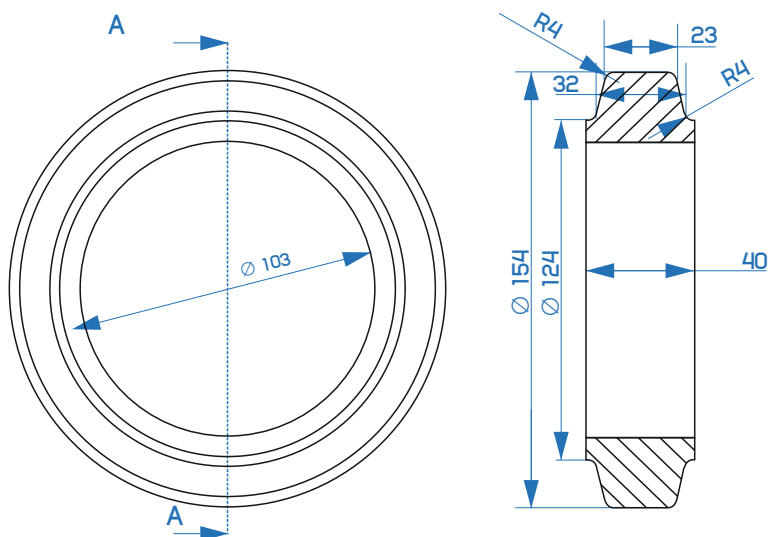
Ø154/103 x 40 mm



Fits to metal roller Ø 108 mm



Technical Properties according to customer's requirements



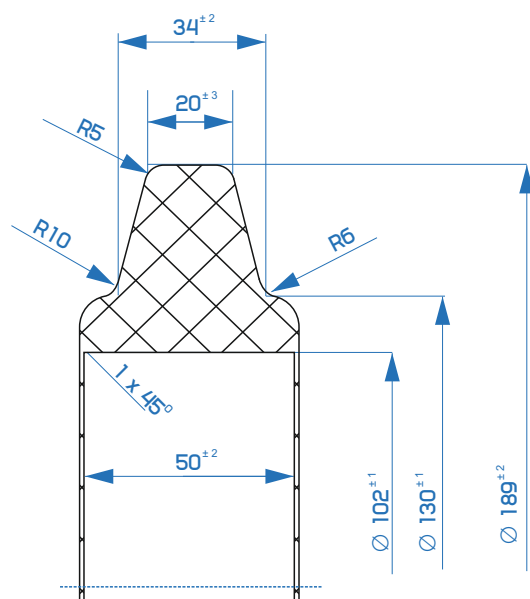
Ø189/102 x 50 mm



Fits to metal roller Ø 108 mm



Technical Properties according to customer's requirements



OUR WHEELS ROLLING THE FUTURE

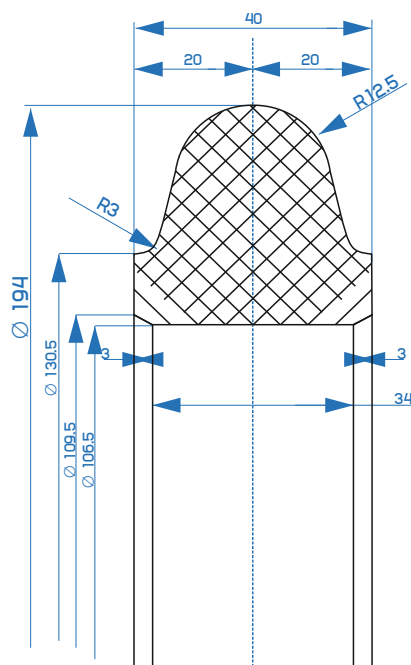


Fits to metal roller  $\varnothing$  108 mm



Technical Properties according to customer's requirements

$\varnothing$ 194/106.5 x 40 mm

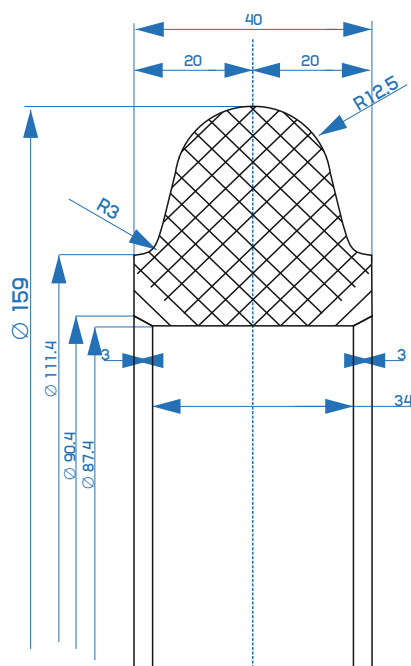


Fits to metal roller  $\varnothing$  88.90 mm



Technical Properties according to customer's requirements

$\varnothing$ 159/87.4 x 40 mm



OUR WHEELS ROLLING THE FUTURE





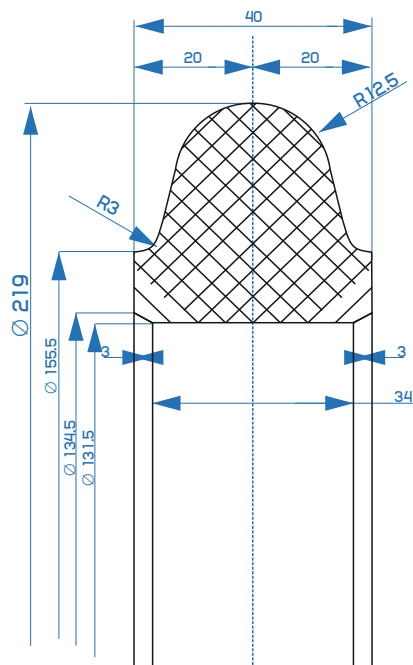
Ø219/131.5 x 40 mm



Fits to metal roller Ø 133 mm



Technical Properties according to customer's requirements



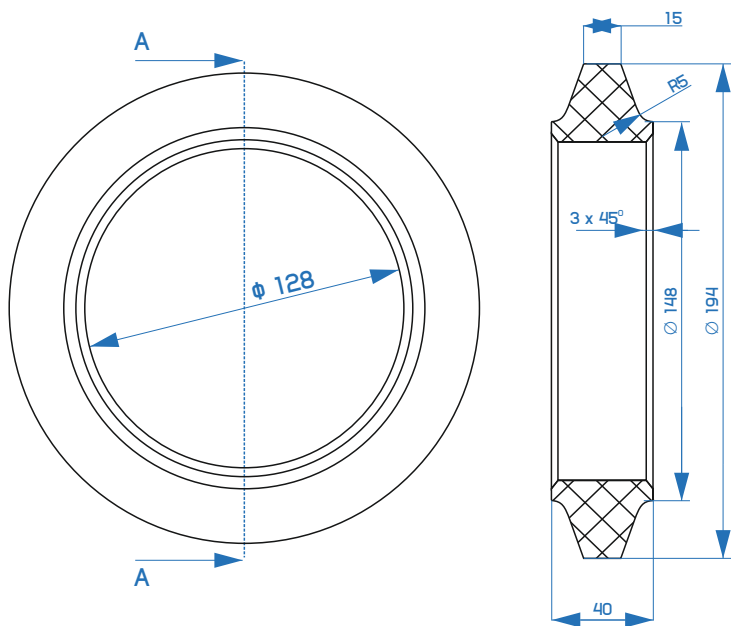
Ø194/128 x 40 mm



Fits to metal roller Ø 133 mm



Technical Properties according to customer's requirements



OUR WHEELS ROLLING THE FUTURE



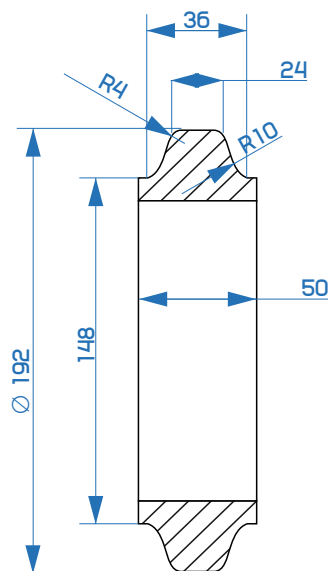
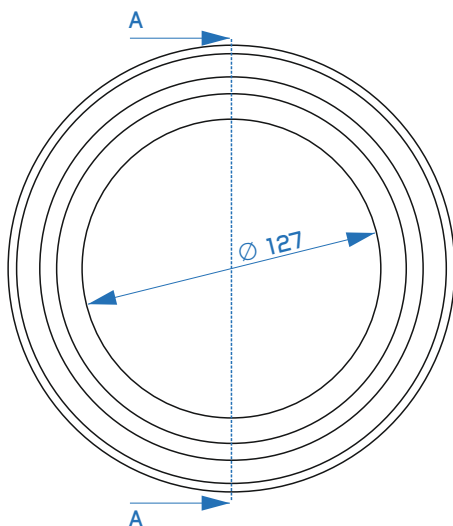
Ø192/127 x 50 mm



Fits to metal roller Ø 133 mm



Technical Properties according to customer's requirements



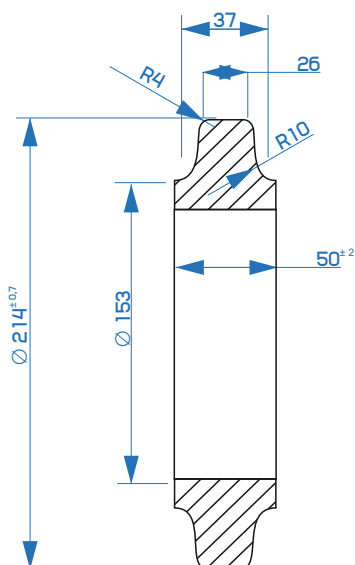
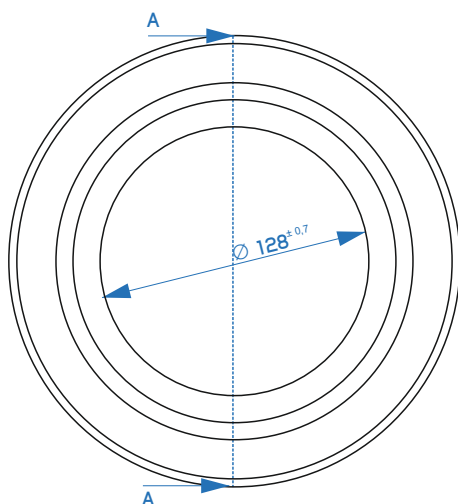
Ø214/128 x 50 mm



Fits to metal roller Ø 133 mm



Technical Properties according to customer's requirements





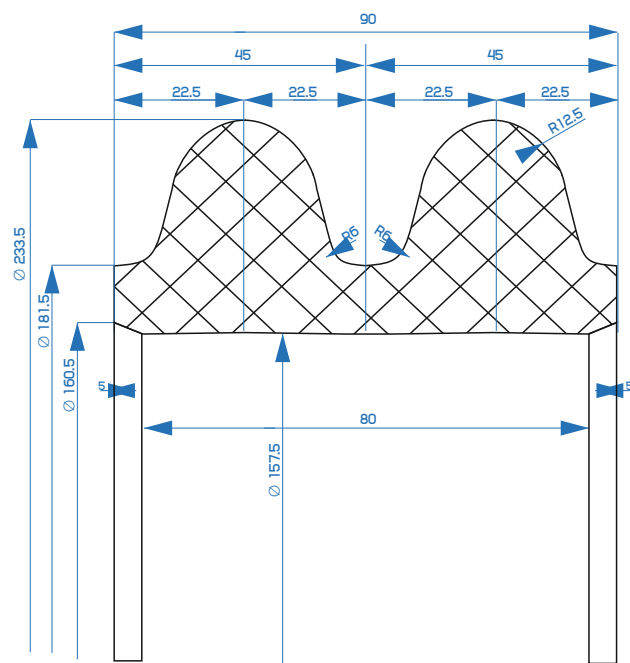
Ø233.5/157.5 x 90 mm



Fits to metal roller Ø 159 mm



Technical Properties according to customer's requirements



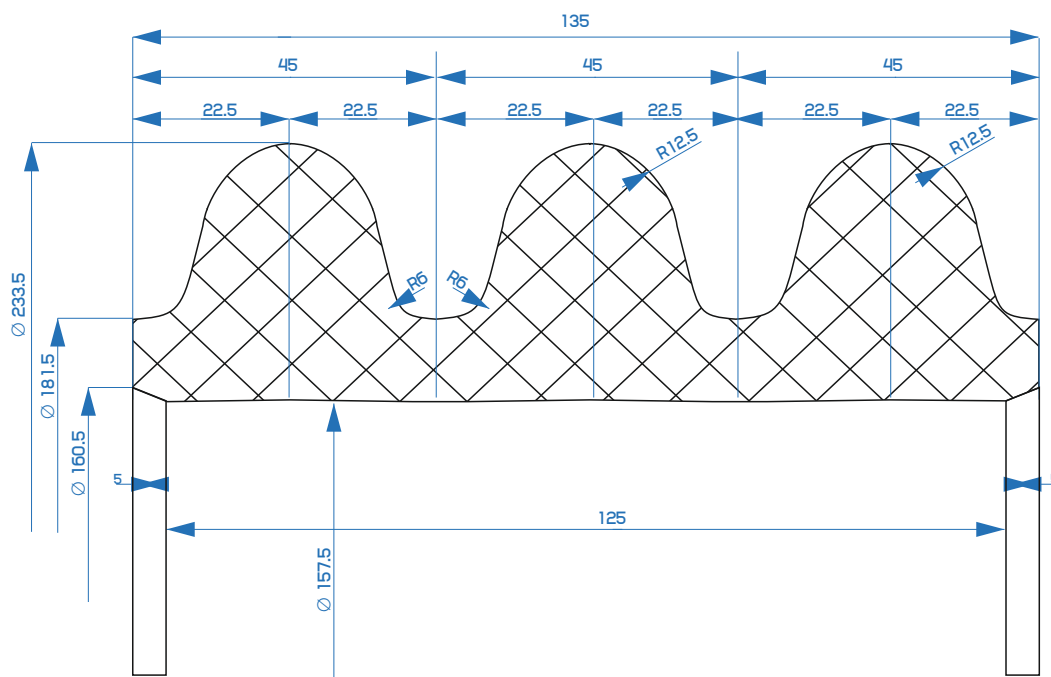
Ø233.5/157.5 x 135 mm



Fits to metal roller Ø 159 mm



Technical Properties according to customer's requirements



OUR WHEELS ROLLING THE FUTURE

# STANDARD TECHNICAL PROPERTIES OF PU WHEELS

Specific Gravity	1,24 ± 0,02 gr/cm <sup>3</sup>
Tensile Strength according to DIN 53504	> 40 MPa
Elongation at Break according to DIN 53504	500 %
Hardness Shore A according to DIN 53505	90 ±5 Shore A
Rebound Resilience according to DIN 53512	40%
Tear Strength according to ISO 34-1	68 KN/m
Abrasion Resistance according to ISO 4649A	20 mm <sup>3</sup>
The tolerances of the relevant ISO/DIN standards apply.	



## CUSTOM MADE WHEELS

We cover your unique requirements for polyurethane wheels. Special custom made wheels can be developed and produced according to the client's unique application. Wheels can be manufactured based on a drawing or even a sample and according to the technical requirements our clients need. For specific applications appropriate materials are available with exceptional properties according to the client's requirements.



The following are available upon customer's requirements:

- Wheels manufactured with flame retardant material according to **U94 norm, level V-1 and V-2 Flammability Standards**
- Wheels according to **ATEX directive**.



Our polyurethane wheels are rolling the conveyor belts of mining sites worldwide. We have manufactured and supplied the mines with more than 2.500.000 wheels and this quantity keeps increasing from day to day. We work one to one with our customers bringing solutions to the mines and delivering top quality parts designed to provide the best overall performance and longest lifespan.

**"We are your trusted supplier  
of polyurethane wheels!"**





8th klm Larisa - Karditsa Road  
41500 Larisa, GREECE

Tel. +30 2410 811121  
Fax +30 2410 811141  
[www.europarts.gr](http://www.europarts.gr)  
[info@europarts.gr](mailto:info@europarts.gr)