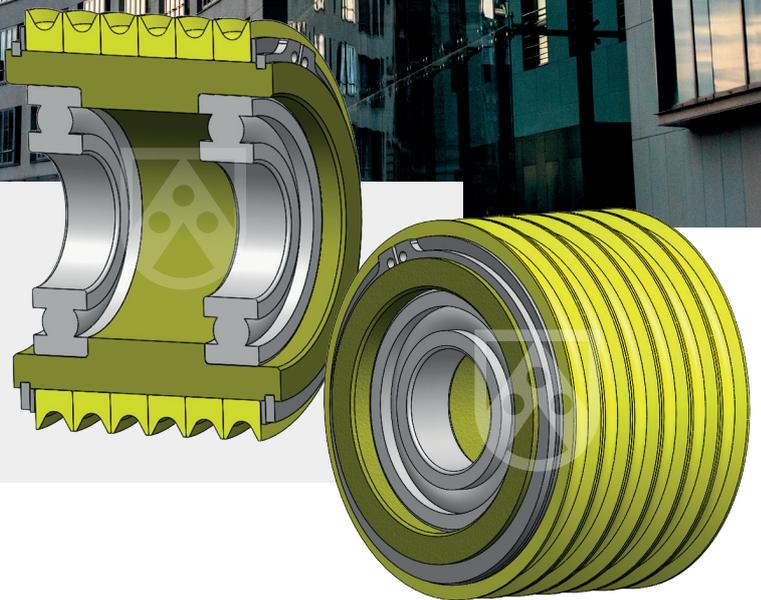


The innovation: Optamid® EasyFlex® Pulley

Components of new elevators need to be space saving to increase shaft efficiency. This task applies to existing buildings as well as to new installations and brings new elevator solutions. Small rope diameters, new traction media, and a smaller D/d ratio can be supported by smaller deflection pulleys.

Our Optamid® EasyFlex® (patent pending) has exactly been developed to support the space saving requirements. As a general rule, all ropes or similar traction media should have most equal tension. EasyFlex® allows a tension adjustment over the deflection pulleys to the end fittings. Optamid® EasyFlex® pulleys are available in diameters 240, 160 and 120 mm to support MRL benefits.



Smart technique

On a polyamid-base body, groove segments are mounted which can move independently. This particular construction brings a number of benefits to elevator producers and operating companies:

- Easy and quick rope installation with multiple deflection pulleys
- Easy installation and adjustment of small ropes and plastic coated ropes
- Separate rings allow that each and every rope can move independently
- Shorter installation time
- 2.2-fold increase in rope service life due to uniform rope tensioning
- Lower weight of an Optamid® EasyFlex® Pulley compared to a steel or cast iron sheave (lighter material and lighter construction)
- Measurable reduction of life-cycle costs
- Noticeable increase of elevator comfort
- Reduced maintenance costs

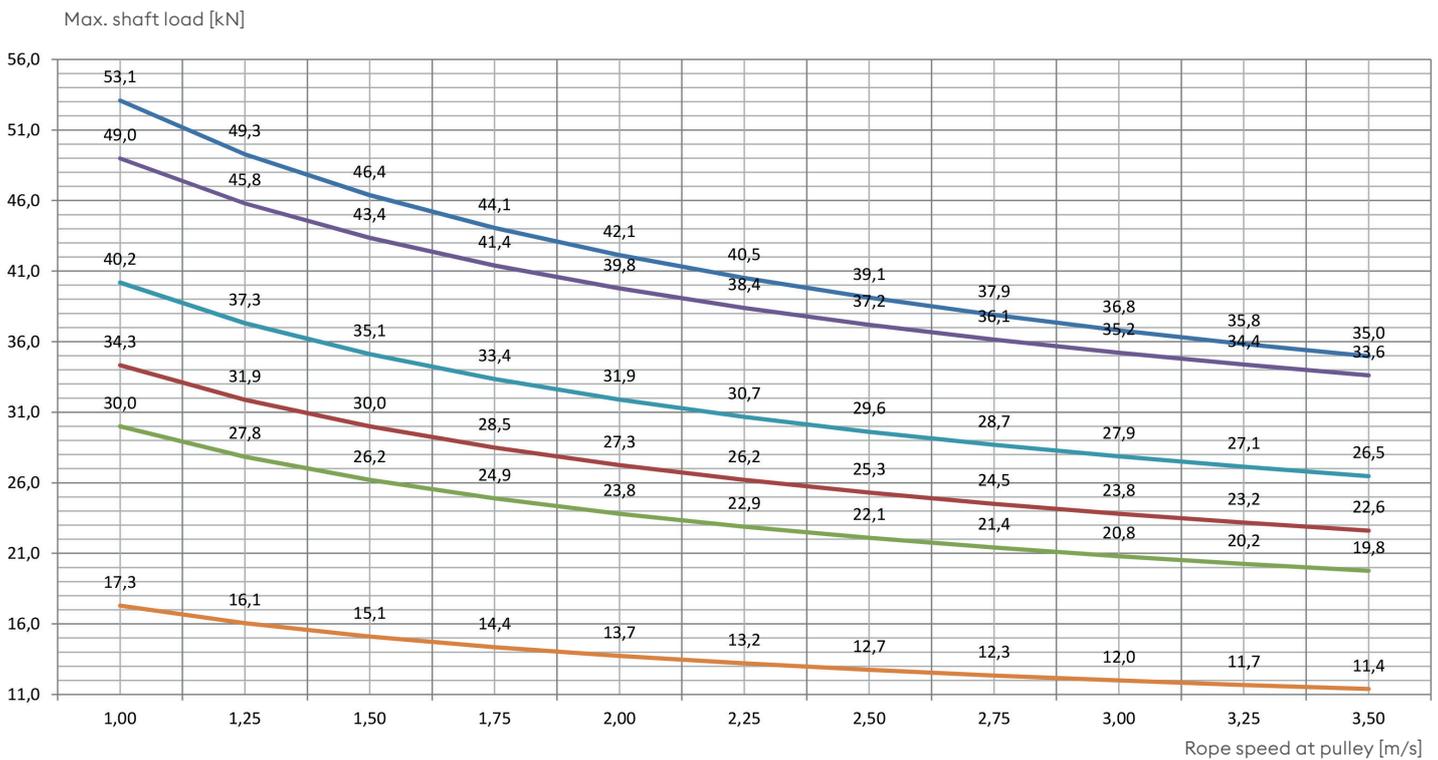
Extensive tests with Optamid® EasyFlex® have been performed on in-house set-ups as well as demanding site applications considering the interaction of plastic coated ropes and deflection pulleys. Using conclusions from expert interviews and market research, the following table shows the standardized product portfolio of Optamid® EasyFlex®:

The Optamid® EasyFlex® series

Diameter Ø D [mm]	120		160		240	
Number of grooves alternative	4	6	6	8	6	10
Ropes diameter [mm] alternative	6.0 – 6.5; 8.1		6.0 – 6.5; 8.1		6.0 – 6.5; 8.1	
Groove distance [mm]	12	12	12	12	12	12
Bearing type	6307 2RS	2BS-2207	6309 2RS	6311 2RS	6309 2RS	6312 2RS
Axes diameter [mm]	35	35	45	55	45	60
Width of EasyFlex® [mm]	63	87	87	111	88	136

Maximum shaft loads vs. rope speed at pulley

Two branded quality bearings per pulley
Nominal bearing lifetime L10 h = 7,000 h



More information about our extensive offer for elevators:



- D = 120 mm, bearing type 6307
- D = 120 mm, bearing type 2BS 2207
- D = 160 mm, bearing type 6309
- D = 160 mm, bearing type 6311
- D = 240 mm, bearing type 6309
- D = 240 mm, bearing type 6312

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