

ROSTA Motorbases ATEX



Applications
for hazardous
areas according
to ATEX 94/9/EC
Directive

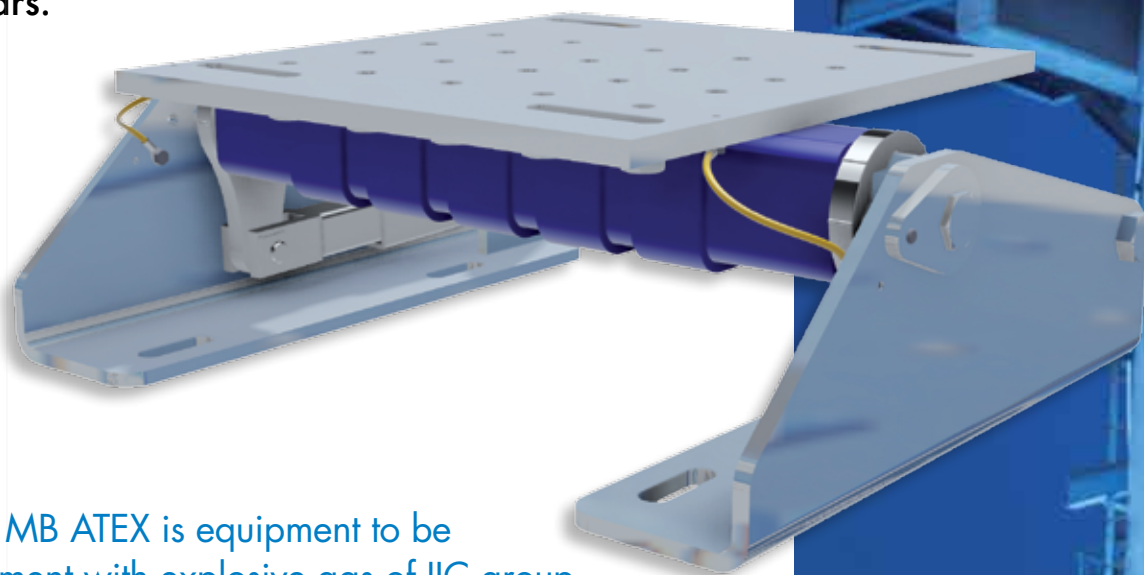


ROSTA 
swinging solutions

ROSTA Motorbases ATEX

The ROSTA Motorbase ATEX is offering with its mechanical pretensioning device the ideal calibration of the relevant belt tension, based on the test force recommendations of the belt suppliers.

Motorbase ATEX is a specific ROSTA product developed to tension belts. It is a self tensioning unit where no additional check is required after first installation and has a long maintenance-free period for several years.



The Motorbase MB ATEX is equipment to be used in environment with explosive gas of IIC group, temperature class T5, or combustible dust max. surface temperature T100°C. The equipment is designed according to ATEX 94/9/EC Directive and the applicable European Harmonized Standards EN 1127-1:2011, EN 13463-1:2009 and EN 13463-5:2011.

ATEX installation zone

The Motorbase MB ATEX series can be installed in the following classified area:

- Zone 1, for gas presence IIC group, temperature class T5,
- Zone 21, for dust presence, max. surface temperature T100°C
- Ambient temperature -40°C ÷ +80°C

The instructions for safety, maintenance and use of the motorbase are described in the relevant user and installation manual as referred to ROSTA Catalogue.



II 2GD c T5/T100°C

T_{amb} : -40°C ÷ +80°C

- II** group II (surface)

- 2** category 2 (zone 1/21)

- G** explosive atmosphere with presence of gas, vapour or mist

- D** explosive atmosphere with presence of dust

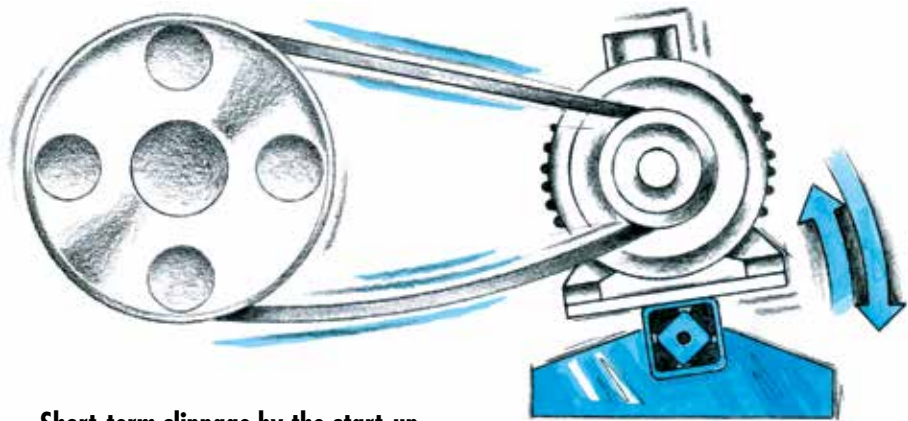
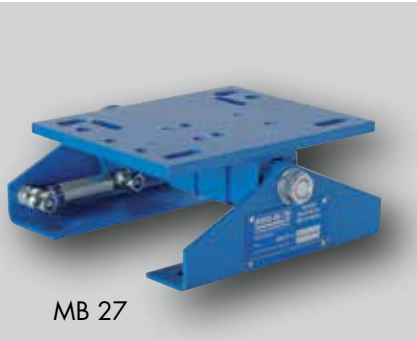
- c** type of protection (constructional safety 'c')

- T5** temperature class (T5)

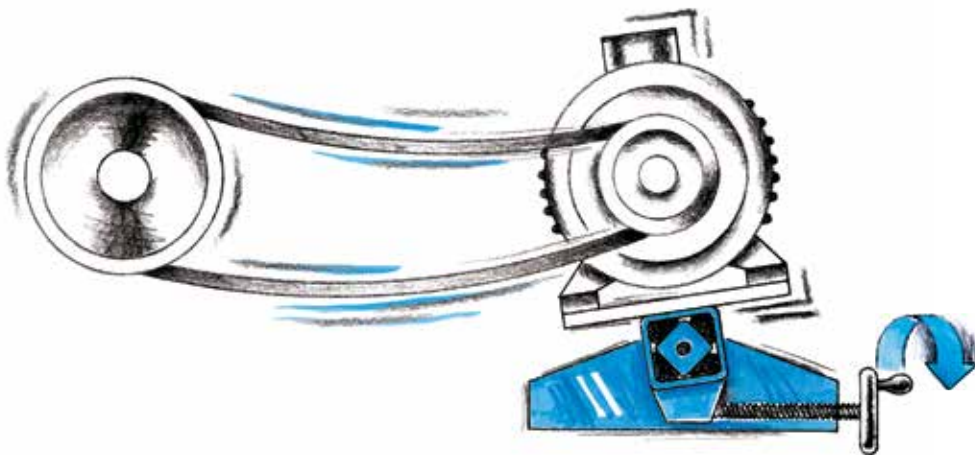
- T100°C** max. surface temperature (T100°C)

- T_{amb} : -40°C ÷ +80°C**
range of ambient temperature

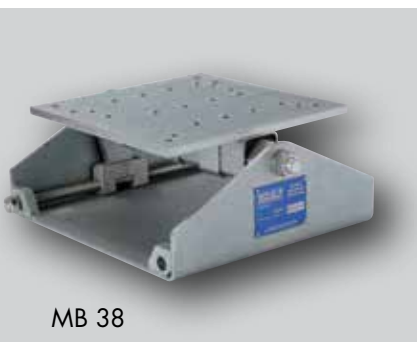
Customer benefits of the ROSTA Motorbases



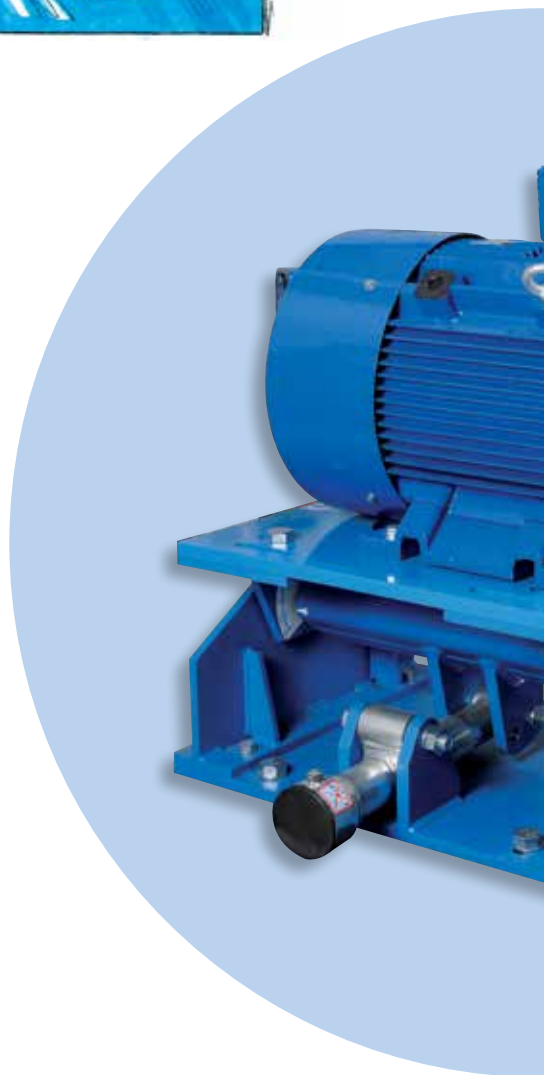
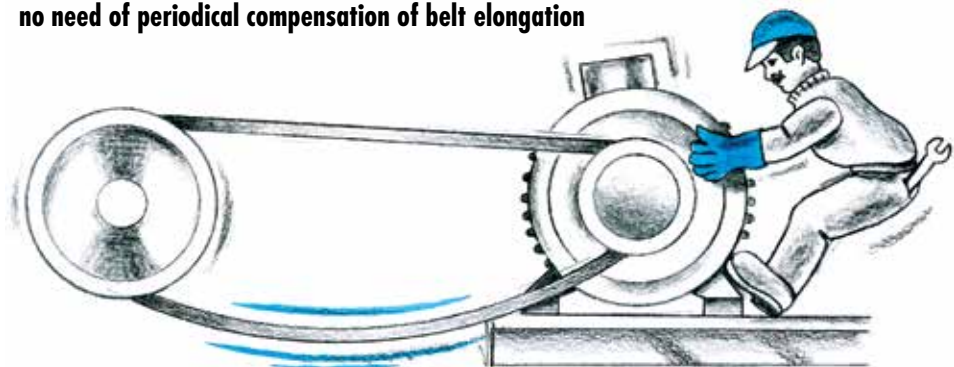
Short-term slippage by the start-up of large inertias, avoiding excessive tension on belt-carass

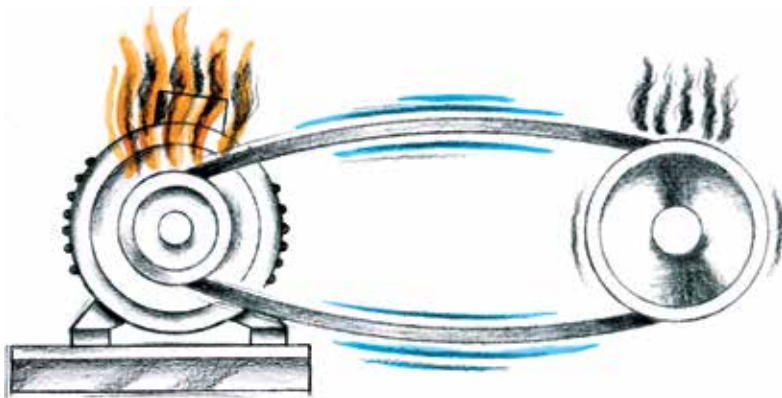


Fast belt changing, no need of complex readjustment of the pulleys

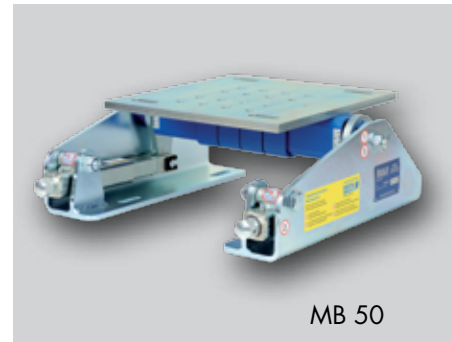


Fully maintenance-free tensioning system, no need of periodical compensation of belt elongation

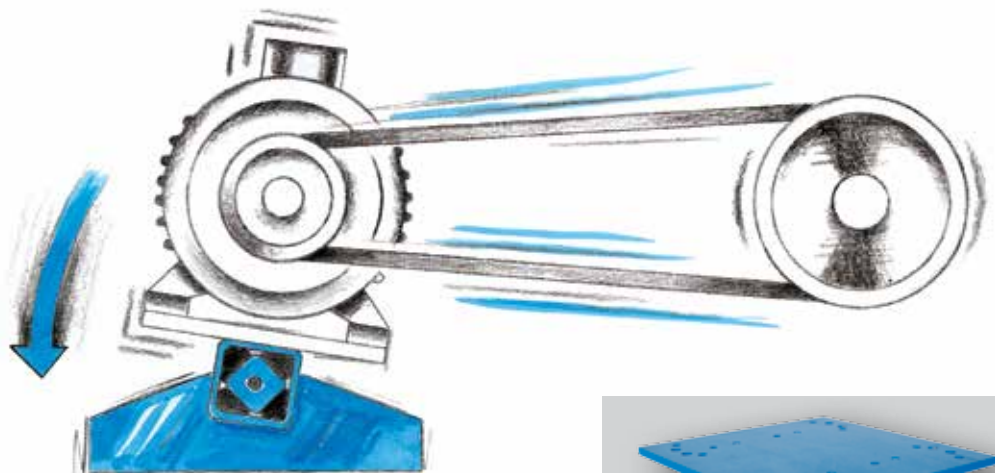
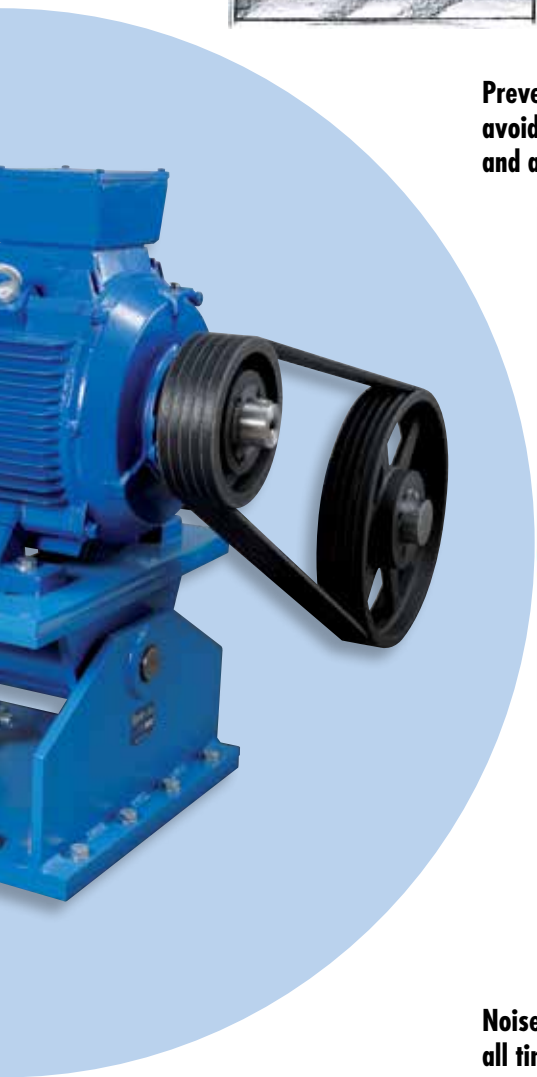




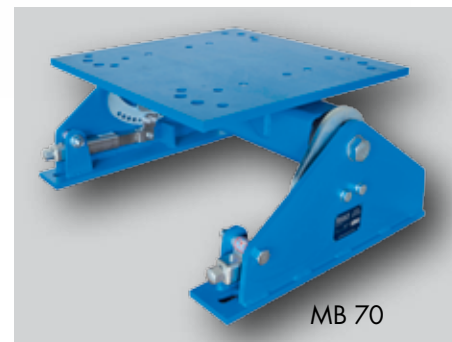
Prevents from slack accruement, avoids heat generating slippage of the belts and averts from premature belt failure



MB 50

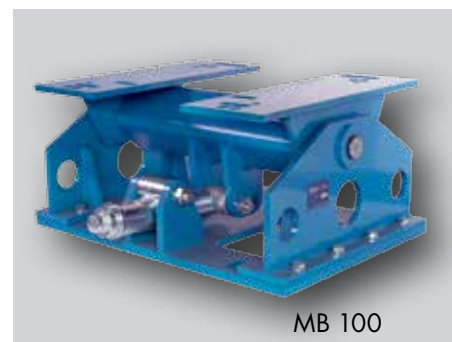
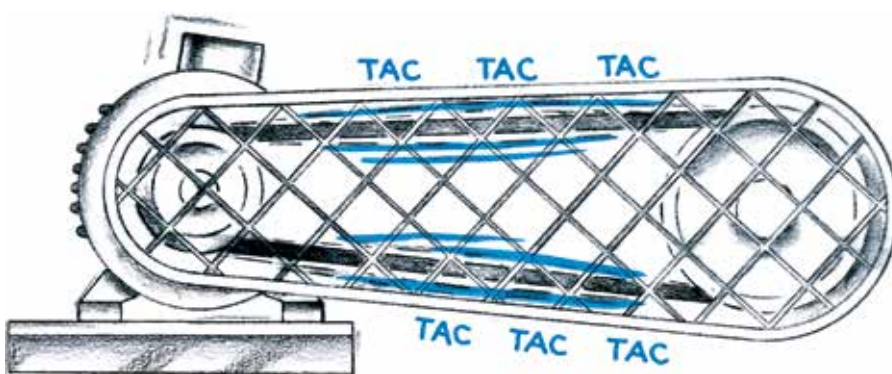


Ideal belt tension, constant transmission of nominal torque, less energy consumption, can lead to threefold belt lifetime



MB 70

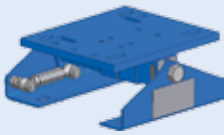
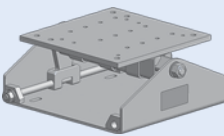

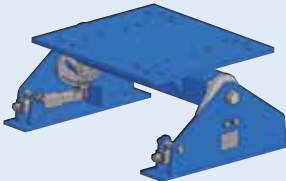
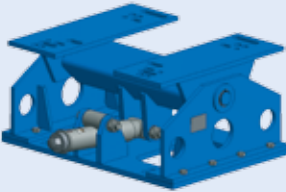
Noiseless power transmission, all time ideally tightened belt sets

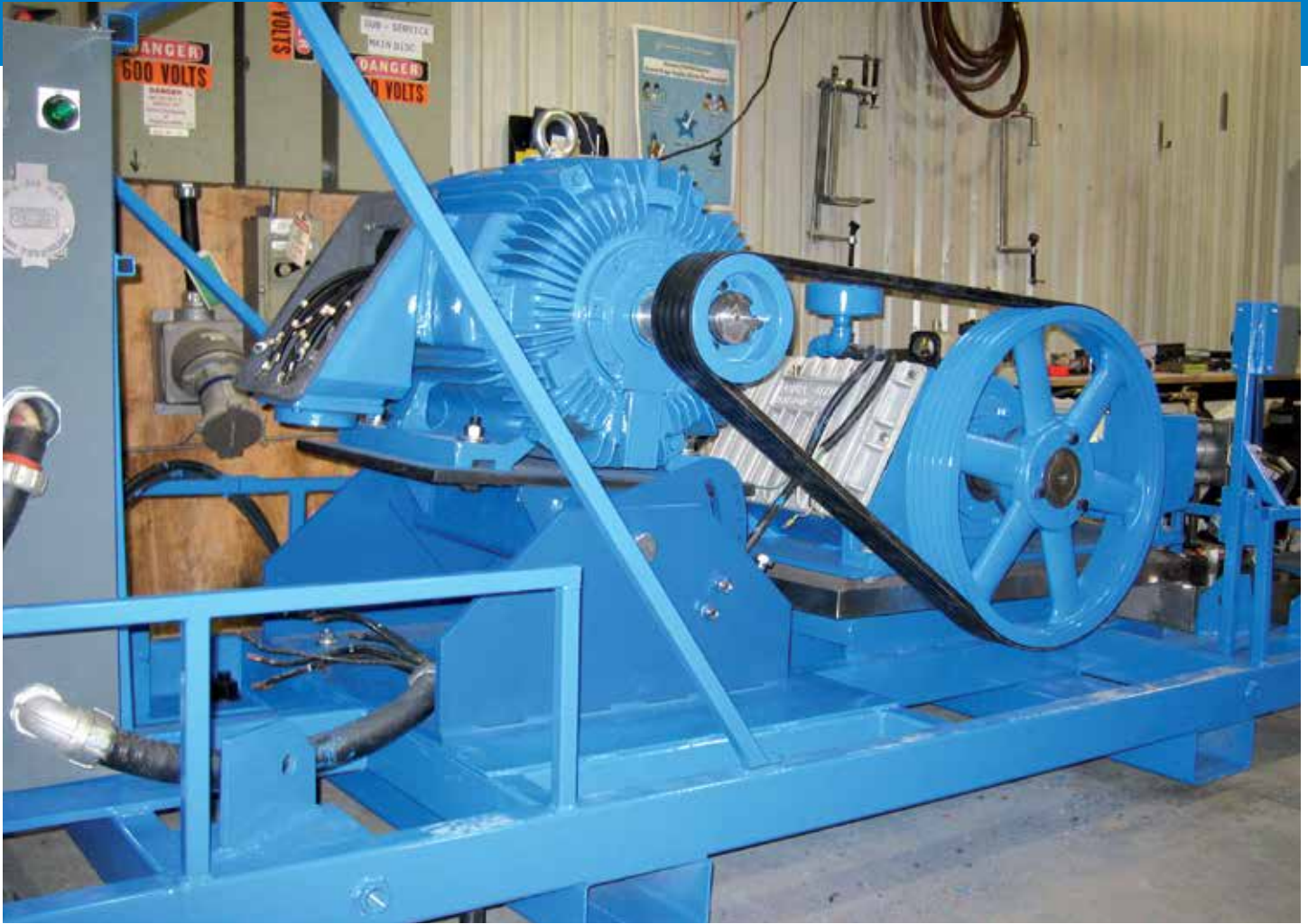


MB 100

ROSTA Motorbases ATEX

Selection table of ROSTA Motorbases according to the frame sizes

IEC			Type of Motorbase	Standard Design
Motor Frame Size	P [kW] 1000 min ⁻¹ 6-pole motor	P [kW] 1500 min ⁻¹ 4-pole motor		
90S 90L	0.75 1.1	1.1 1.5	MB 27 × 120	MB 27 
100L	1.5	2.2 / 3		
112M	2.2	4		
132S 132M	3 4 / 5.5	5.5 7.5	MB 38 × 300	MB 38 
160M 160L	7.5 11	11 15		
160M 160L	7.5 11	11 15	MB 50 × 270-1	MB 50 
180M 180L	- 15	18.5 22	MB 50 × 270-2	
200L	18.5 / 22	30	MB 50 × 400	
225S 225M	- 30	37 45	MB 50 × 500	
250M	37	55	MB 70 × 400	MB 70 
280S 280M	45 55	75 90	MB 70 × 550	
315S	75	110	MB 70 × 650	
315M 315L	90 / 110 110-160	132-160 160-200	MB 70 × 800	
315M 315L	90 / 110 110-160	132-160 160-200	MB 100 × 750	MB 100 
355S 355M 355L	132-160 200-250 200-250	200-250 250 250		



- Multiple V-Belt lifetime
- Compensating peak loads
- No routine maintenance needed

The Blue Ones from ROSTA

The leading manufacturer
of torsional rubber springs



worldwide!

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