SAURER.

Genuine Teamwork.

Daytex Texturing Cots and Temco Nip Rollers LR

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Saurer provides high quality market leading components used for the production of filament yarns and synthetic fibres and have a wide application across various industries.

Saurer prides itself on the breadth and quality of its offering, providing components required to improve the quality in texturing.

For over 30 years, Saurer has been the provider of the leading Daytex Polymeric Products for texturing applications. The core expertise of the product line Temco are the development, manufacturing and distribution of standard as well as integrated bearing solutions.

Features and benefits

→ Outstanding product properties

→ Highest quality standards

→ Universal application

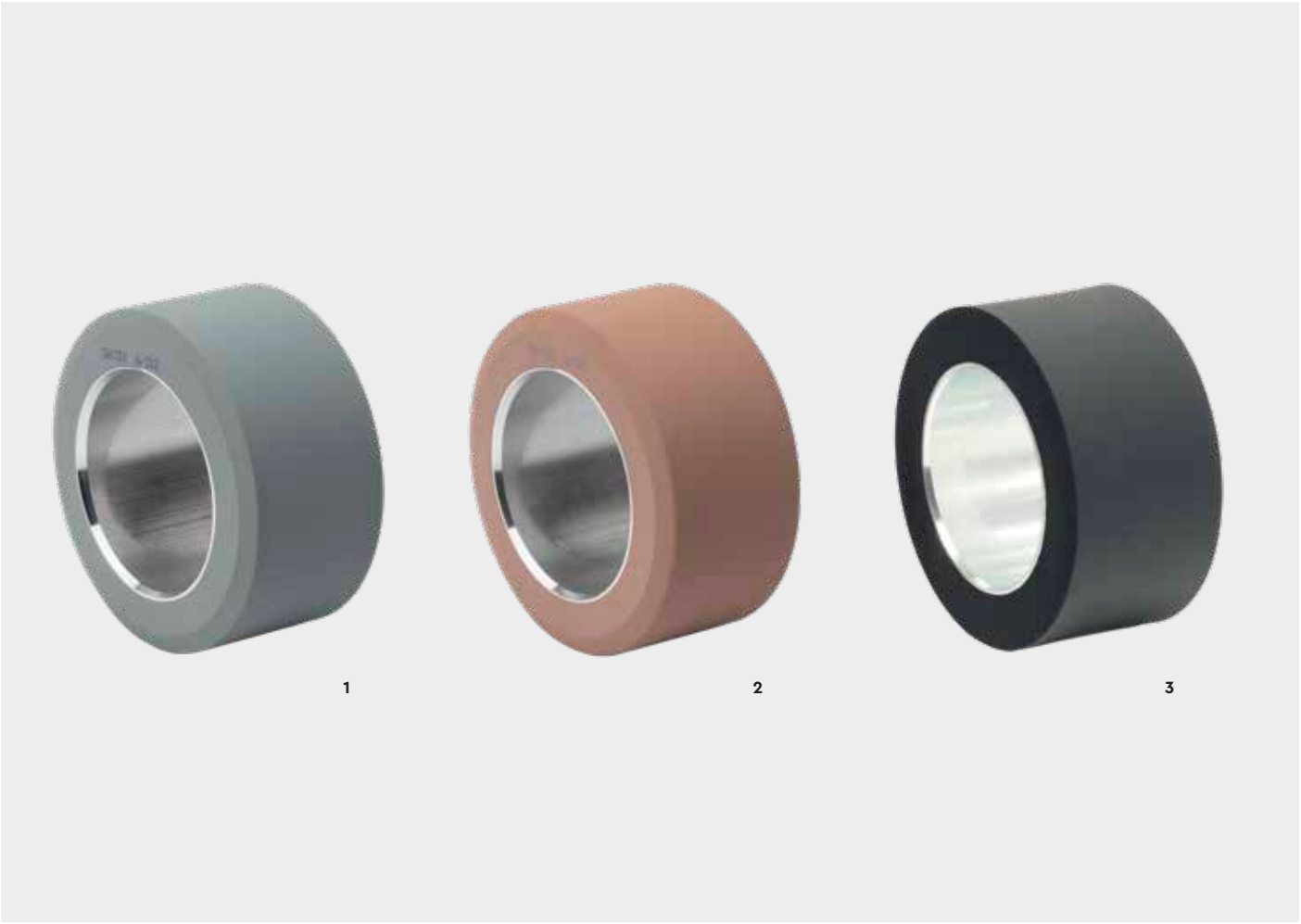
→ Superior life time

→ Improvements by new chamfered edges for G-836 and S-880

Daytex Texturing Cots

Daytex Cots are specified by all the leading texturing machine producers worldwide. The latest polymer technology and state-of-the-art production techniques are the fundamental properties of our manufacturing facility in Germany.

- → High precision and constant tension control at the highest speeds to enable high quality production
- → Anti-static elastomer compositions
- → Trouble-free running behaviour, less end breaks and thus higher machine efficiency
- → Consistency and stability every time
- → Outstanding wear and crack resistance, excellent oil, chemical and heat resistance
- → Designed to meet the highest demands on all fibres and working conditions for all common and high speed texturing machines
- → Long lasting durability and easy handling, ensuring higher productivity
- → Better thread clamping force on the yarn. Enabled by the higher contact pressure
- → Constant 'form' against the drive shaft due to lower concavity minimizes light leakage
- → Lower vibration level at high production speeds
- → Less deformation during regrinding



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Types
Pressfit cots consist of an aluminium core and virtually tension free rubber. This guarantees constant results during the whole life cycle. Springloc cots consist of an elastic core and are used when it is not possible to use pressfit cots because of limited space.

G-836 with 75 Shore A, grey
The latest cots in the range features technical as well as economical advantages:
- More stable against chemical attacks like swelling
- Less deformation caused by yarn wraps due to the better compression set at process temperatures from 50 to 70 °C
- Highest mechanical stability for reduced micro cracking

S-880 - 72 Shore A, salmon
- Best dynamic elastic properties
- Very good grip for maximum filament control due to lower hardness
- Standard cot for all kind of applications

121 - 70 Shore A, black
- Soft cot for special applications e.g. micro filament and flat yarn
- Highest yarn visibility due to the compound colour

1 G-836 with 75 Shore A, grey
2 S-880 - 72 Shore A, salmon
3 121 - 70 Shore A, black


DAYTEX A/102

Features and benefits

→ Vibration free smooth running with low bearing friction

→ Up to 50 % energy savings compared to a conventional nip roller

→ Outstanding bearing quality for long life time without relubrication

→ Perfect operation based on integrated vibration absorber and gimbal-mounting

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Nip roller unit

The nip roller unit, composed from a Temco Bearing and Daytex Cot aligns the key competence of both companies, which has a direct influence on textured yarn quality.

Modern false twist texturing (DTY) machines are equipped with up to 4 nip roll feeds per position. To ensure perfect results the following characteristics must be present:

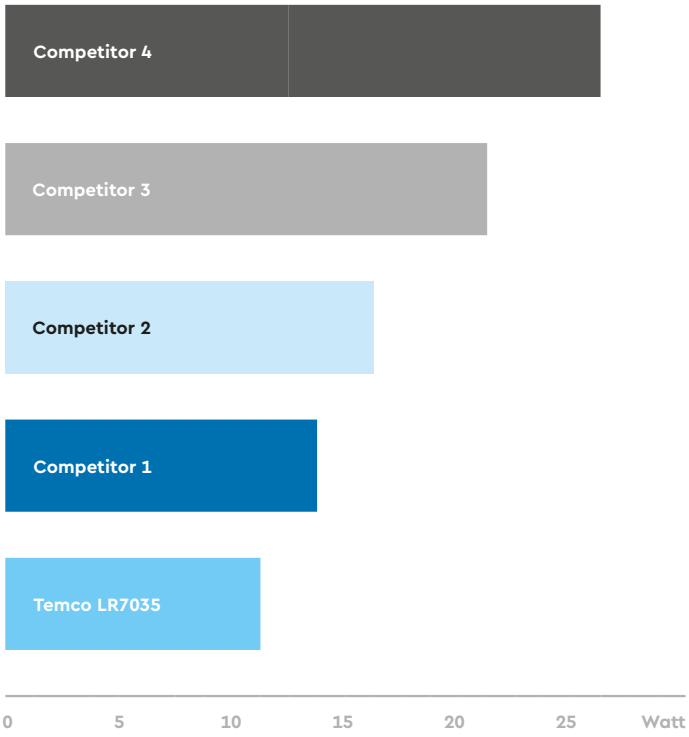
→ Vibration free smooth running with low bearing friction
→ Secure grip without any yarn slippage
→ Cots and bearings designed for high speed operation of up to 1500 m/min
→ Long service life

Customers benefit from a huge savings potential on manufacturing costs and by increasing profits. Because nip roller units combined with a Temco Bearing and a Daytex Cot are synonymous for:

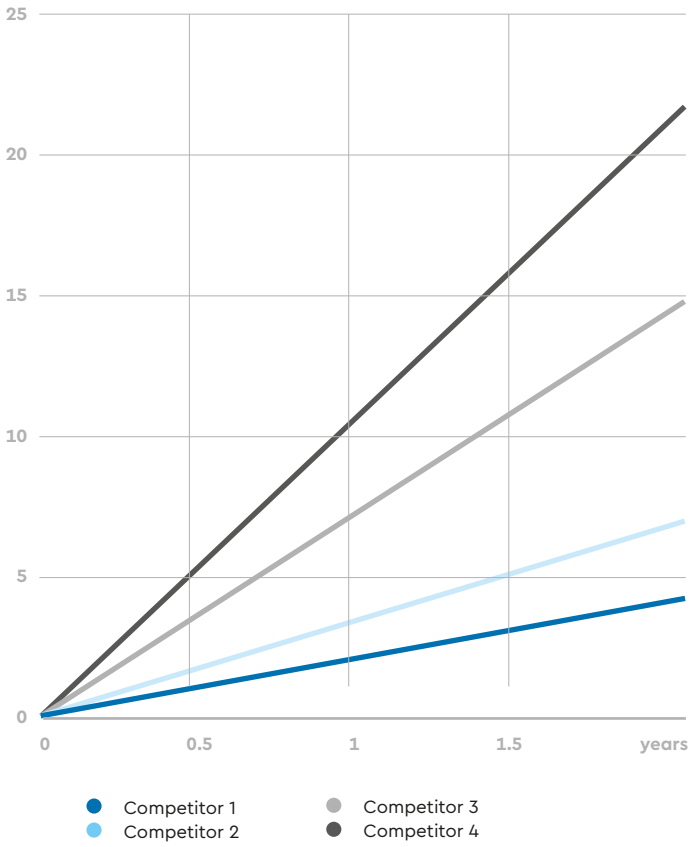
→ Up to 50 % energy savings compared to a conventional nip roller
→ Outstanding bearing quality for long life time without re-lubrication
→ Optimal operation performance based on the integrated vibration absorber and gimbal-mounting
→ Extended unit life time

1 Temco Nip Roller LR

Nip rollers – power consumption
at 850 m / min – 50 N



Cost savings in comparison at 0.1€ per kWh
in Euro



Energy saving

Rising energy costs nowadays have a wide influence on your production costs. Temco Nip Rollers with Daytex Texturing Cots ensure a dramatic reduction of power consumption and maximize your competitiveness.

Assumption
By switching to Saurer, on a DTY machine using 960 nip rollers you can save up to 8 400 W. With 8 000 working hours this totals 67 200 kW/yr and it's great for the environment using 51.6 tons less CO_2!

Power saving = no. of positions × no. of nip rollers × difference of power consumption in Watt

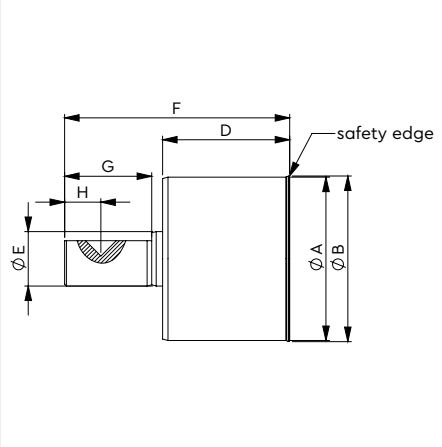
Example 1 (competitor 1):
240 pos × 4 nip rollers × 2.625 W* = 2 520 W

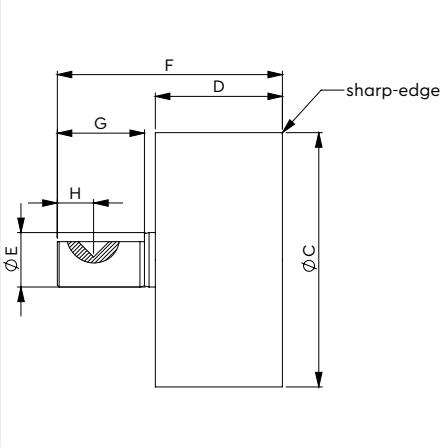
Example 2 (competitor 4):
240 pos × 4 nip rollers × 8.75 W* = 8 400 W

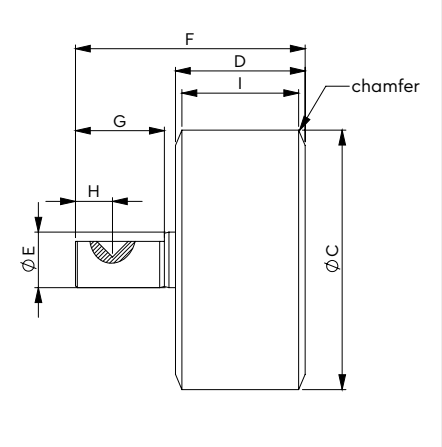
* Power W1 50 % of other shafts

Nip roller units

Dimensions







Nip roller units are available for all current texturing machines. Due to the different constructions from e. g. the connection pin diameters of the Temco Nip Roller Bearings and the varying diameters of the Daytex Cots, we recommend to contact us for the specification of the type matching to your demands.

Key numeric system

LR7035–10. S. 301P

S = Springloc, P = Pressfit

B = Type 121 (black color and 70 ShoreA hardness)
G = Type G-836
(grey color and 75 ShoreA hardness)
S = Type S-880
(salmon color and 72 ShoreA hardness)

Settings for different fabrics

Bearing	Niproller	Machine type	A 45	B 54.6	C	D	E	F	G	H	I
LR4535–10	LR6535–10.B.301P	Oerlikon Barmag			65	35	15	62	24	10	
	LR6535–10.G.301P	Oerlikon Barmag			65	35	15	62	24	10	
	LR6535–10.S.301P	Oerlikon Barmag			65	35	15	62	24	10	
	LR6535–10.G.303P	Oerlikon Barmag			65	35	15	62	24	10	31.5
	LR6535–10.S.303P	Oerlikon Barmag			65	35	15	62	24	10	31.5
	LR7035–10.B.301P	Oerlikon Barmag			70	35	15	62	24	10	
	LR7035–10.G.301P	Oerlikon Barmag			70	35	15	62	24	10	
	LR7035–10.S.301P	Oerlikon Barmag			70	35	15	62	24	10	
	LR7035–10.G.303P	Oerlikon Barmag			70	35	15	62	24	10	31.5
	LR7035–10.S.303P	Oerlikon Barmag			70	35	15	62	24	10	31.5
LR4535–10T1	LR7035–10T1.B.301P	TMT			70	35	15	59.5	23	6	
	LR7035–10T1.G.301P	TMT			70	35	15	59.5	23	6	
	LR7035–10T1.S.301P	TMT			70	35	15	59.5	23	6	
	LR7035–10T1.G.303P	TMT			70	35	15	59.5	23	6	31.5
	LR7035–10T1.S.303P	TMT			70	35	15	59.5	23	6	31.5

Other dimensions on request

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