LightRoll®

Carbon fiber guiding rollers for extrusion lines

Designed for high-performance blown film lines where precise film handling is critical.

EPSILON ROLLERS
The alternative



- **High-speed blown film lines** up to 200 m/min
- **Wide or multi-layer films** with tight tolerances
- **Stable performance** at high temperatures

Product benefits

Better process stability at elevated speeds and temperatures

Reduced energy consumption (lightweight design)

Reduced wrinkling, chatter marks, and air trapping

Improved film flatness and tension control

Extended lifetime with less maintenance

The technology: Pullwinding & composite end-fittings



LightRoll® guiding rollers offer optimized performance and costs thanks to our patented Pullwinding process.

Equipped with thermoplastic composite fittings at both ends, LightRoll® guiding rollers are the lightest guiding rollers on the market, fully equipped with bearings and ready to use.

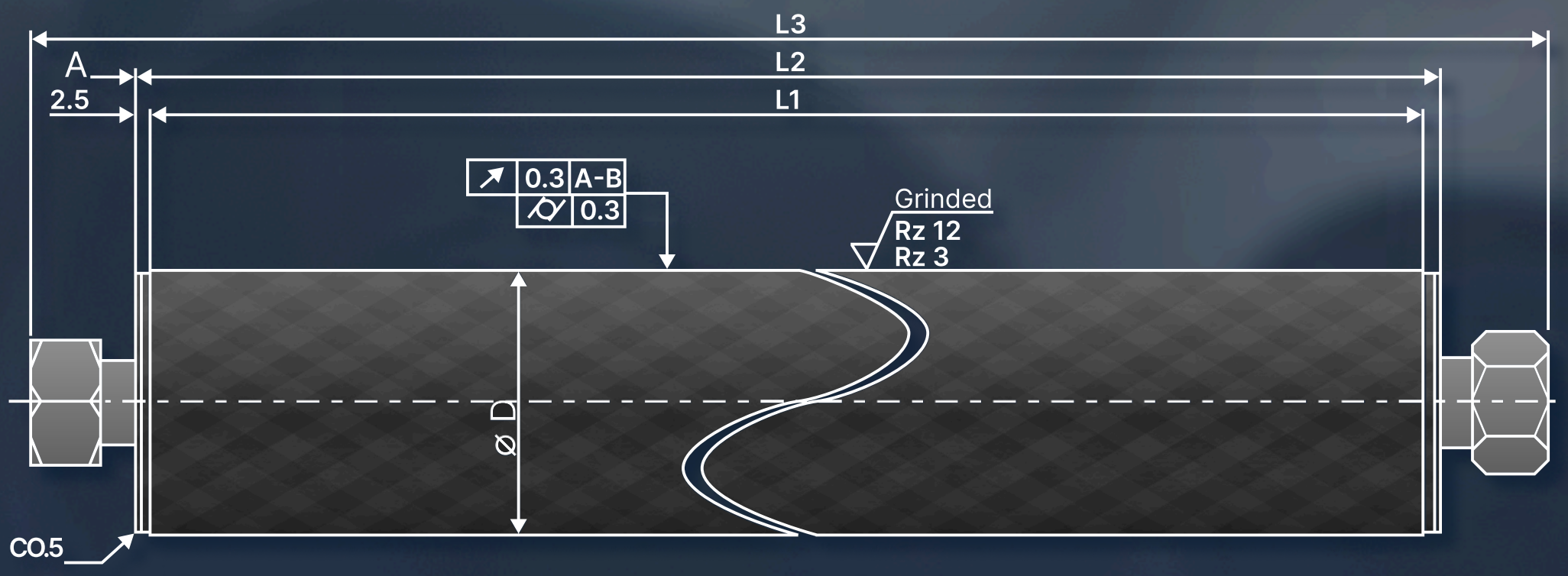
EPSILON COMPOSITE
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contact@epsilon-composite.com
www.epsilon-composite.com

9001 ISO CERTIFIED
GOLD | Top 5% ecovadis Sustainability Rating 2024

LightRoll® features

Properties	Technical impact
Ultra-lightweight design	Reduced inertia and less wear
Optimized thermal insulation	Prevents film sticking and thermal distortion
High specific stiffness	Improved film stability and flatness
Vibration damping	Smoother film handling and fewer surface defects
Corrosion resistance	Lower maintenance and extended service life
Enhanced stability	Improved film consistency at high speeds

Working speed:	Up to 200 m/min					
Dimensions and characteristics:	Diameter (mm)	40	50	55	60	80
	Thickness (mm)	2	2	2	2	3
	Length (mm)	<2000	<3000	<3400	<4000	<5000
	E-Moduls (GPa)	120	120	120	125	135
	Roughness	Rz 3-12				
	T.I.R $_{max}$ (mm)	0,2	0,3		0,5	On demand
End fittings:	Antistatic thermoplastic composite					
Other:	Antistatic surface					
	High-quality self-aligning double-row bearings					
	Stainless steel axis with M8 or M12 thread					
	Optional: tungsten carbide coating					



A = 15 or 25mm

Diameter = 40, 50, 55, 60, 80 mm

Epsilon Composite. Version 1.10
Do not litter

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