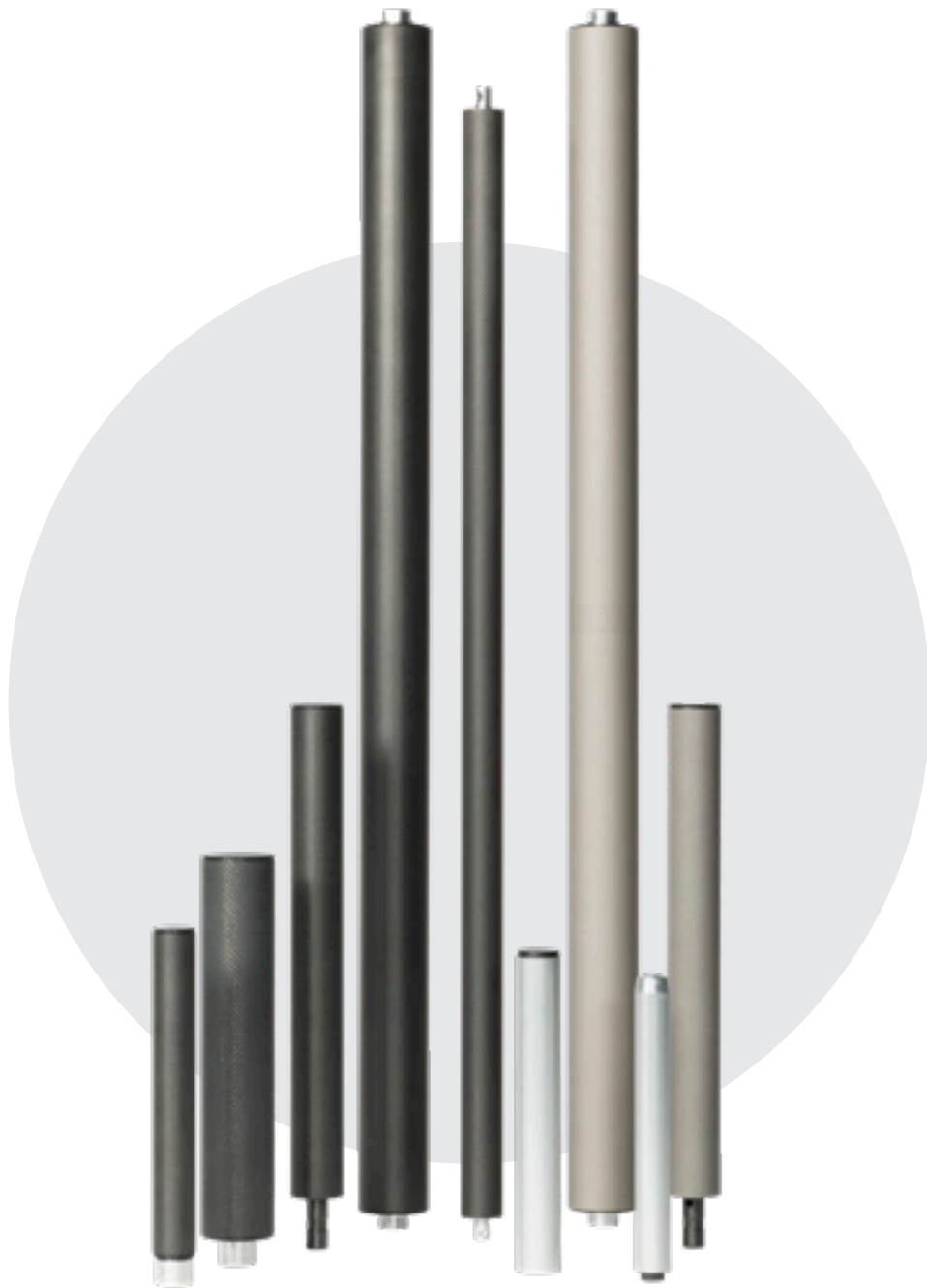


**SAURER.**



**Leading the way.**

**Temco Deflection Rollers ULR / ULW**



## Guiding and deflecting of continuous materials

**As a manufacturer of premium roller bearings, Saurer has many years of experience with sophisticated bearings of this kind and now has over 100 000 Temco Deflection Rollers ULR/ULW in use with exceptionally satisfied customers.**

### **Field of Application**

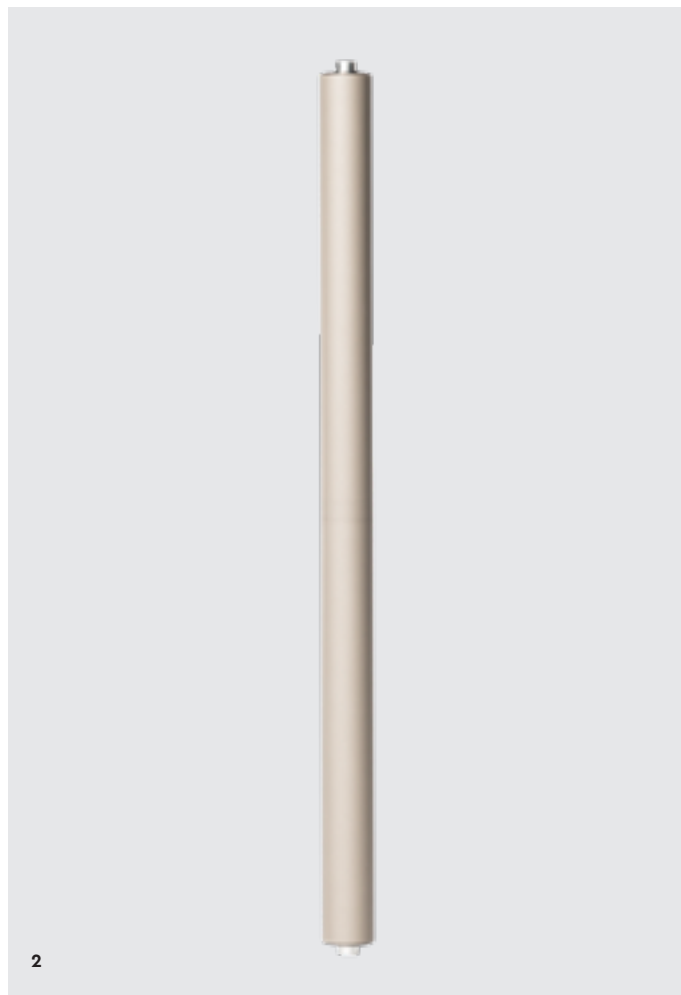
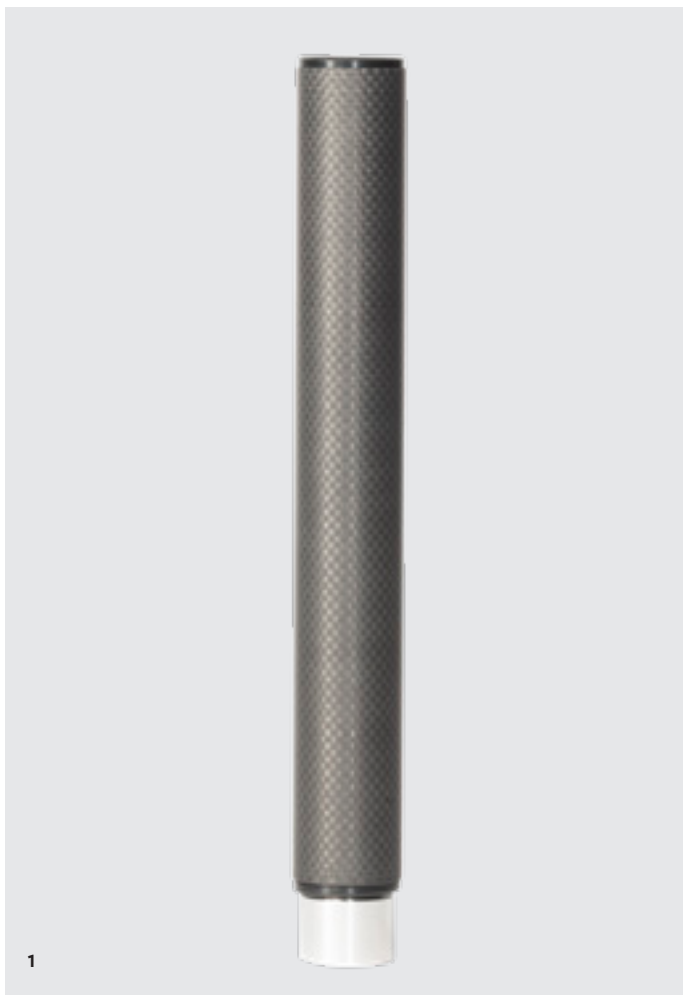
Deflection rollers are used for the gentle deflecting of films and other textile webs.

They are most frequently used in the production of hygiene products, such as baby nappies for example, in the production and processing of films, and in the packing industry. It is also possible to use them in the printing industry or for the guiding of paper webs.

### **Advantages**

The integrated bearing configuration means it is possible to combine requirements for a high radial load and the greatest possible degree of component rigidity (deflection) with requirements that are actually opposing, such as low levels of bearing friction, high speed and a long lifetime. Due to the use of mass-inertia reduced shells made from thin walled and yet highly stable CFRP tubes, rapidly accelerating/retarded movement sequences are also possible with a minimum level of driving force.

If required, the shells can also be designed with special coatings with wear protection, a self-cleaning effect or a non-stick effect for hot adhesives.



### Configurations/design types

Deflection rollers (ULR) are only attached to one side and thereby make the web guiding and handling considerably easier.

Deflection rollers (ULW) are attached to both sides and are used with wider textile webs (> 500 mm).

Depending on the customer requirements and dimensions,

- bearings in different speed ranges (currently up to 750 m/min)
- shells in aluminum or CFRP
- surfaces with an anodized layer, polished, or with additional non-stick coating
- with the ability to divert electrostatic charges
- standardized or individual adaptations are possible.

For further details, please refer to our types-overview.

### Technical data

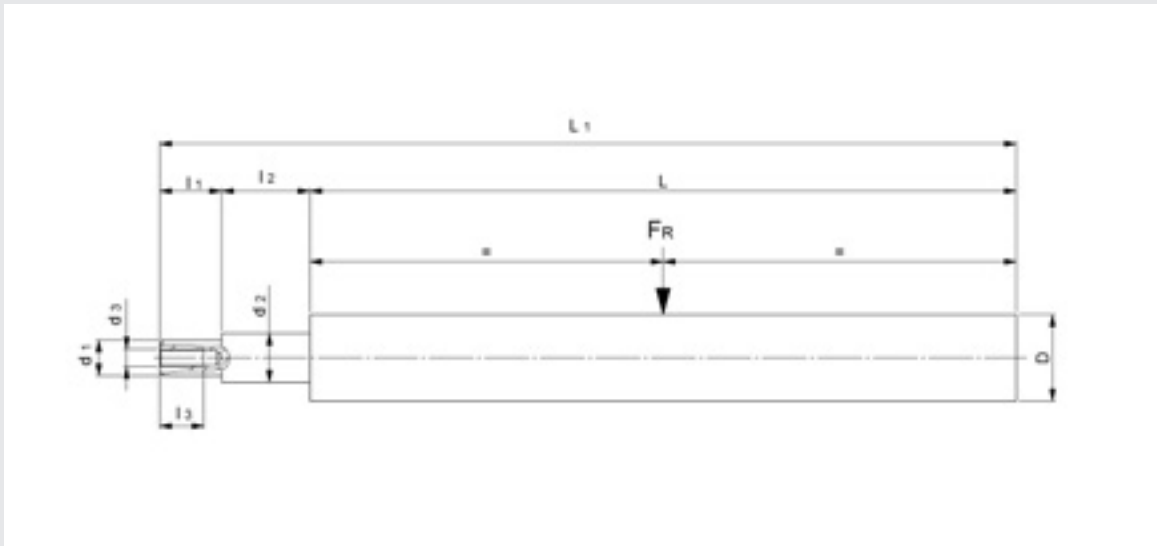
	ULR	ULW
Diameter	CFRP: 34 mm, 44 mm, 60 mm / ALU: 36 mm, 40 mm, 60 mm	
Length	Up to 500 mm	Up to 1200 mm
Radial load	Up to 100 N	Up to 200 N
Speed	Up to 750 m/min with high speed bearings	

1 Deflection Roller – ULR34250-06

2 Deflection Roller – ULW601000-02.

# Deflection rollers ULR

Deflection rollers figure



## Overview

Type	Shell		Material	Coat	Adaptor							Material	L <sub>1</sub> [mm]	v <sub>max</sub> [m/min]
	D [mm]	L [mm]			d <sub>1</sub> [mm]	l <sub>1</sub> [mm]	d <sub>2</sub> [mm]	l <sub>2</sub> [mm]	d <sub>3</sub> [mm]	l <sub>3</sub> [mm]				
ULR34250-06**	34	250	CFRP				Ø29.6	25.0	M8	20.0	Alu	275.0	750	
ULR34250-07**	34	250	CFRP		M12	15.0	SW24	125.0			St.	390.0	750	
ULR34250-08**	34	250	CFRP	XP 0198			Ø29.6	25.0	M8	20.0	Alu	275.0	750	
ULR34250-09**	34	250	CFRP	XP 0198	M12	15.0	SW24	125.0			St.	390.0	750	
ULR34250-10**	34	250	CFRP		Ø18.0	45.0	Ø21.0	-1.5	M8	20.0	Alu	293.5	750	
ULR34250-11**	34	250	CFRP	XP 0198	Ø18.0	45.0	Ø21.0	-1.5	M8	20.0	Alu	293.5	750	
ULR34250-15	34	250	CFRP		Ø18.0	75.0	Ø21.0	-1.5	M8	20.0	Alu	323.5	750	
ULR34400-02**	34	400	CFRP		Ø18.0	45.0	Ø29.6	-1.5	M8	20.0	Alu	443.5	600	
ULR34400-E-03**	34	400	CFRP				Ø30.0	15.0	M8	16.0	Alu	415.0	400	
ULR36200-E-00	36	200	ALU	anodized								200.0	400	
ULR36400-E-00	36	400	ALU	anodized								400.0	400	
ULR39130-E-01	39	130	ALU	hard-anodized	Ø16.0	28.0	Ø22.0	135.0	M8	20.0	St.	293.0	400	
ULR39220-E-01	39	220	ALU	hard-anodized	Ø16.0	28.0	Ø22.0	81.0	M8	20.0	St.	329.0	400	
ULR39320-E-01	39	320	ALU	hard-anodized	Ø16.0	28.0	Ø22.0	31.0	M8	20.0	St.	379.0	400	
ULR44200-02**	44	200	CFRP		Ø20.0	50.0	Ø29.6	10.0	M8	20.0	Alu	260.0	450	
ULR44250-04	44	250	CFRP		M12	15.0	SW24	125.0			St.	390.0	550	
ULR44250-11	44	250	CFRP		Ø18.0	45.0	Ø23.5	23.5	M8	20.0	Alu	318.5	700	
ULR44250-12	44	250	CFRP	XP 0198	Ø18.0	45.0	Ø23.5	23.5	M8	20.0	Alu	318.5	700	
ULR44300-02**	44	300	CFRP		Ø20.0	50.0	Ø29.6	10.0	M8	20.0	Alu	360.0	450	
ULR44400-05	44	400	CFRP		Ø18.0	45.0	Ø29.6	-1.5	M8	20.0	Alu	443.5	650	
ULR44400-06	44	400	CFRP	XP 0198	Ø18.0	45.0	Ø29.6	-1.5	M8	20.0	Alu	443.5	650	
ULR44400-08	44	400	CFRP		Ø18.0	45.0	Ø29.6	-1.5	M8	20.0	Alu	443.5	450	
ULR44400-09	44	400	CFRP	PC915S	Ø18.0	45.0	Ø29.6	-1.5	M8	20.0	Alu	443.5	450	
ULR60320-00**	60	320	CFRP		54.5	22.0			M12	22.0	Alu	342.0	700	
ULR60440-01	60	440	CFRP	XP 0198	Ø29.0	85.0					Alu anodized	540.0	700	
ULR60440-02	60	440	ALU	hard-anodized	Ø25.0	15.0	Ø35	120	M12	24.0	V2A	570.0	450	
ULR60440-03	60	440	ALU	XP 0198	Ø25.0	15.0	Ø35	120	M12	24.0	V2A	570.0	450	
ULR60440-04	60	440	ALU	hard-anodized	Ø29.0	85.0					Alu anodized	540.0	450	

\*\* = Standard

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