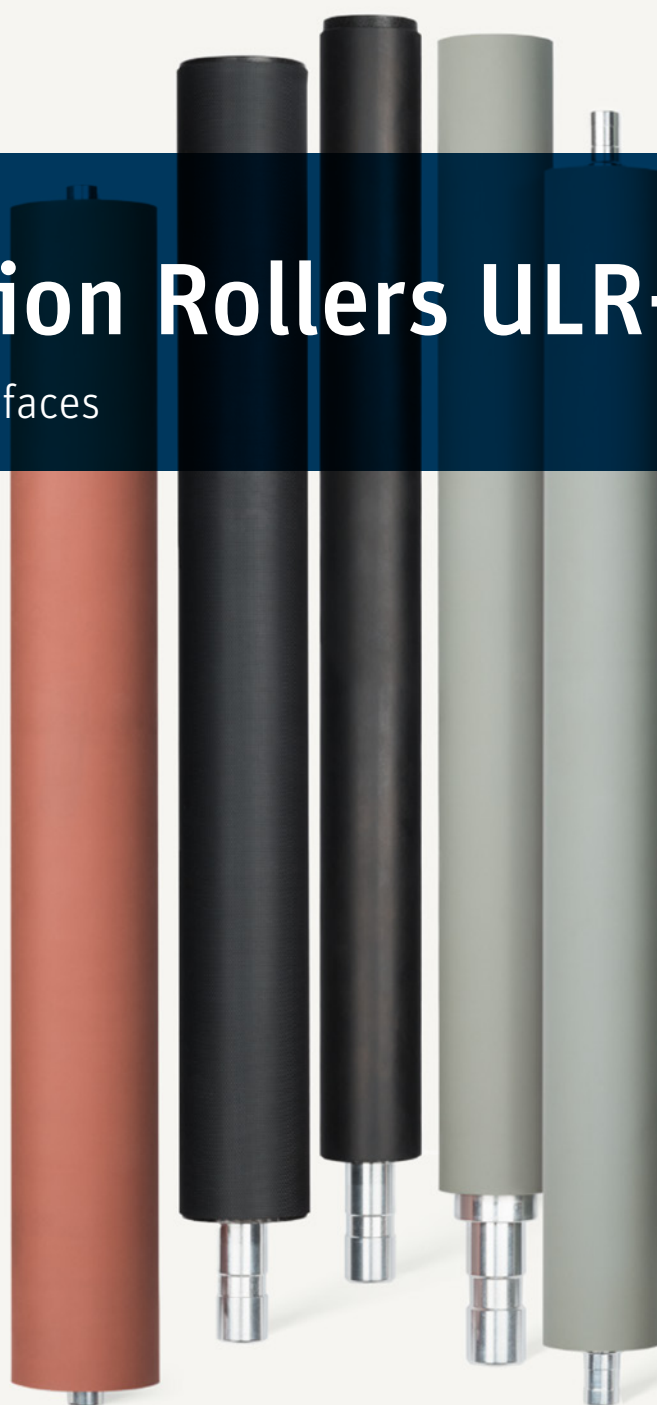


Deflection rollers ULR+ULW  
Product range

TEMCO

# Deflection Rollers ULR+ULW

Types, sizes, surfaces



Leading the way

# OUTSTANDING

ADVANTAGES

Deflection  
rollers

ULR + ULW

Low Mass Moment  
of Inertia

High Production  
Depth



The image displays five cylindrical rollers of varying heights and finishes. From left to right: a tall, dark grey roller with a fine, woven mesh texture; a short, light grey roller with a smooth finish; a tall, light brown roller with a smooth finish; a short, light grey roller with a smooth finish; and a medium-height, light brown roller with a smooth finish. Each roller has a small metal fitting at its top or bottom end. The rollers are arranged on a white surface, casting soft shadows.

Very High Speeds  
with Low Vibration  
Running Behavior

Low Noise and  
Smooth Running

High Precision

# Guiding and Deflecting of Continuous Materials

As a manufacturer of premium roller bearings, Temco 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.



1 Deflection Roller – ULR34250-06, 2 Deflection Roller – ULW601000-02

## 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.

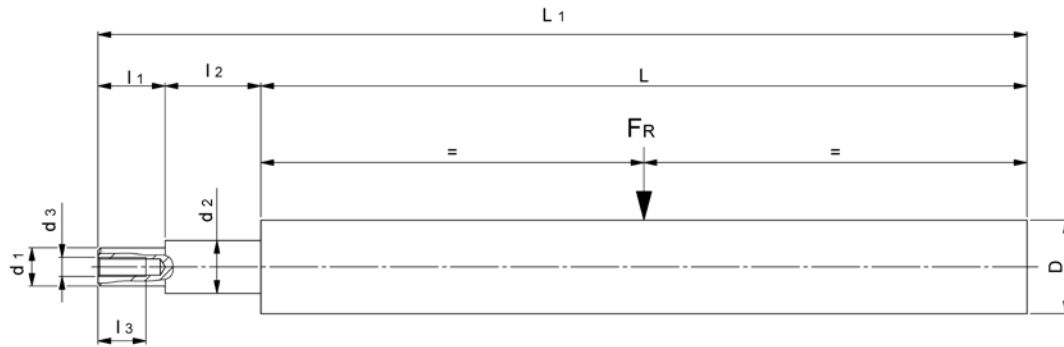
For further details, please refer to our types-overview.

## Technical data

	ULR	ULW
<b>Diameter</b>	CFRP: 34 mm, 44 mm, 60 mm/ ALU: 36 mm, 40 mm, 60 mm	
<b>Length</b>	Up to 500 mm	Up to 1 200 mm
<b>Radial load</b>	Up to 100 N	Up to 200 N
<b>Speed</b>	Up to 750 m/min with high speed bearings	

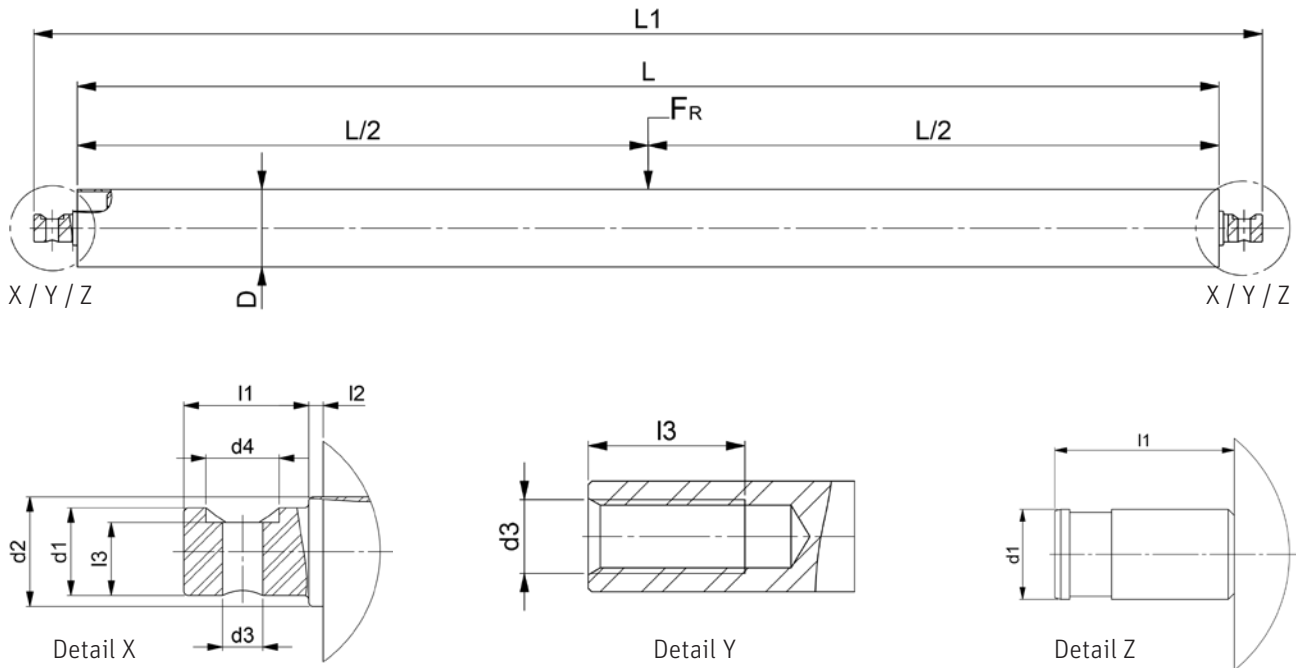
# Deflection Rollers ULR

## Figures and overview

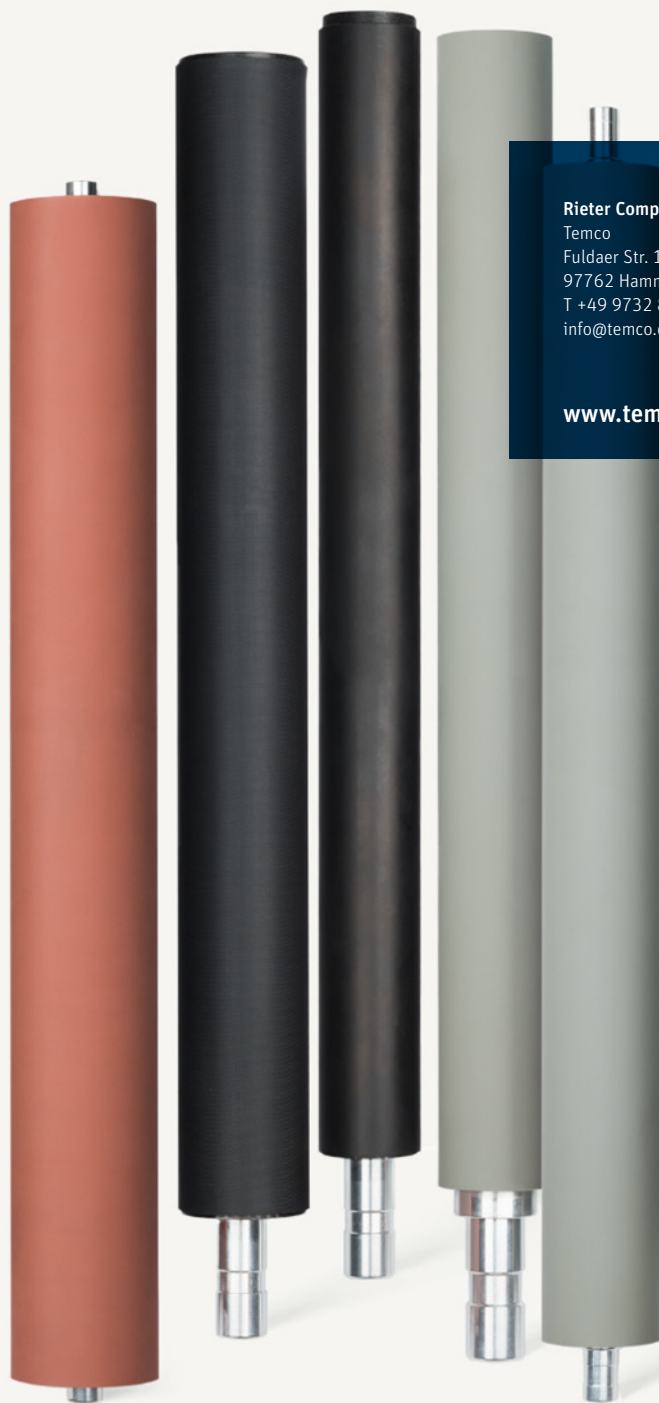


Type	Shell				Adaptor									
	$v_{max}$ [m/min]	Radial run-out [mm]	D [mm]	L [mm]	Material	Coat	$d_1$ [mm]	$l_1$ [mm]	$d_2$ [mm]	$l_2$ [mm]	$d_3$ [mm]	$l_3$ [mm]	Material	$L_1$ [mm]
ULR28150-E-01 <sup>1</sup>			28	150	Alu		∅ 23.5	8.0			M6	12.0		
ULR28150-E-01 <sup>1</sup>	100		28	150	Alu		∅ 23.5	8.0			M6	12.0	Alu	158.0
ULR30250-00 <sup>1</sup>	440	0.015	30	250	CFRP		∅ 45.0	10.0	∅ 24.0	90.0	25	1.0	Alu	355.0
ULR34250-06	750		34	250	CFRP				∅ 29.6	25.0	M8	20.0	Alu	275.0
ULR34250-07	750		34	250	CFRP		M12	15.0	SW24	125.0			Steel	390.0
ULR34250-08	750		34	250	CFRP	XP 0198			∅ 29.6	25.0	M8	20.0	Alu	275.0
ULR34250-09	750		34	250	CFRP	XP 0198	M12	15.0	SW24	125.0			Steel	390.0
ULR34250-10	750		34	250	CFRP		∅ 18.0	45.0	∅ 21.0	-1.5	M8	20.0	Alu	293.5
ULR34250-11	750		34	250	CFRP	XP 0198	∅ 18.0	45.0	∅ 21.0	-1.5	M8	20.0	Alu	293.5
ULR34250-15 <sup>1</sup>	750		34	250	CFRP		∅ 18.0	75.0	∅ 21.0	-1.5	M8	20.0	Alu	323.5
ULR34300-02-HP <sup>1</sup>	700	0.2	34	300	CFRP		∅ 29.6	20.5			M10	20.5	Alu	325.0
ULR34400-02	650		34	400	CFRP		∅ 18.0	45.0	∅ 29.6	-1.5	M8	20.0	Alu	443.5
ULR34400-E-03	385		34	400	CFRP				∅ 30.0	15.0	M8	16.0	Alu	415.0
ULR36400-E-00 <sup>1</sup>	400		36	400	Alu	anodized								400.0
ULR39220-E-01 <sup>1</sup>	440		39	220	Alu	hard-anodized	∅ 16.0	28.0	∅ 22.0	81.0	M8	20.0	Steel	329.0
ULR39320-E-01 <sup>1</sup>	440		39	320	Alu	hard-anodized	∅ 16.0	28.0	∅ 22.0	31.0	M8	20.0	Steel	379.0
ULR44200-02	450		44	200	CFRP		∅ 20.0	50.0	∅ 29.6	10.0	M8	20.0	Alu	260.0
ULR44250-04 <sup>1</sup>	550		44	250	CFRP		M12	15.0	SW24	125.0			Steel	390.0
ULR44250-11 <sup>1</sup>	700		44	250	CFRP		∅ 18.0	45.0	∅ 23.5	23.5	M8	20.0	Alu	318.5
ULR44250-12 <sup>1</sup>	700		44	250	CFRP	XP 0198	∅ 18.0	45.0	∅ 23.5	23.5	M8	20.0	Alu	318.5
ULR44300-02	450		44	300	CFRP		∅ 20.0	50.0	∅ 29.6	10.0	M8	20.0	Alu	360.0
ULR44400-05 <sup>1</sup>	650		44	400	CFRP		∅ 18.0	45.0	∅ 29.6	-1.5	M8	20.0	Alu	443.5
ULR44400-06 <sup>1</sup>	650		44	400	CFRP	XP 0198	∅ 18.0	45.0	∅ 29.6	-1.5	M8	20.0	Alu	443.5
ULR60320-00	700		60	320	CFRP		54.5	22.0			M12	22.0	Alu	342.0
ULR60300-01 <sup>1</sup>	700	0.2	60	300	CFRP		∅ 54.5	22.0			M12	22.0	Alu	322.0
ULR60440-05	450		60	440	Alu	hard-anodized	∅ 25.0	15.5	∅ 35.0	120.0	M12	24.0	Alu anodized	570.0

<sup>1</sup> Acceptance only with minimum quantity



Type	Shell				Adaptor											$v_{max}$ [m/min]
	$F_{Rmax}$ [N]	Radial run-out [mm]	D [mm]	L [mm]	Material	Coat	$d_1$ [mm]	$l_1$ [mm]	$d_2$ [mm]	$l_2$ [mm]	$d_3$ [mm]	$l_3$ [mm]	$d_4$ [mm]	Material	$L_1$ [mm]	
ULW34160-00	100	0.2	34	160	CFRP		∅ 12.0	18	∅ 15.0	2.0				Alu	200.0	600
ULW34220-01	100	0.2	34	220	CFRP		∅ 13.0	60.5	∅ 15.0		6.5	13.0	6.5	Alu	327.0	600
ULW34320-02	100	0.2	34	320	CFRP		∅ 12.0	18	∅ 15.0	2.0				Alu	360.0	600
ULW34500-02	100	0.2	34	500	CFRP		∅ 12.0	18	∅ 15.0	2.0				Alu	540.0	600
ULW34500-04	100	0.2	34	500	CFRP		∅ 12.0	17	∅ 15.0	2.0	5.5	10.0	10.0	Alu	538.0	600
ULW34500-05	100	0.2	34	500	CFRP		∅ 12.0	37	∅ 15.0	2.0	5.5	10.0	10.0	Alu	578.0	600
ULW35920-02	100	0.2	35	920	CFRP		∅ 12.0	37	∅ 15.0	2.0	5.5	10.0	10.0	Alu	998.0	500
ULW40900-00	120	0.4	40	900	Alu	anodized	∅ 15.0	30						Alu	960.0	400
ULW44600-00	100	0.2	44	600	CFRP		∅ 15.0	30						Alu	660.0	600
ULW44800-01	100	0.2	44	800	CFRP		∅ 12.0	17	∅ 15.0	2.0	5.5	10.0	10.0	Alu	838.0	600
ULW44800-03	100	0.2	44	800	CFRP		∅ 15.0							Alu	860.0	600
ULW441080-00	100	0.2	44	1080	CFRP		∅ 15.0	30						Alu	1140.0	600
ULW60530-00	200	0.3	60	530	CFRP		∅ 12.0	18	∅ 20.0	2.0				Alu	570.0	700
ULW60530-01	200	0.3	60	530	CFRP	XP0198	∅ 12.0	18	∅ 20.0	2.0				Alu	570.0	700
ULW601000-00	200	0.3	60	1000	CFRP		∅ 25.00/ SW22	10.0	∅ 30.0	3.0	M8	17.0		Alu	1030.0	700
ULW601000-01	200	0.3	60	1000	CFRP	PC915S	∅ 25.00/ SW22	10.0	∅ 30.0	3.0	M8	17.0		Alu	1030.0	700
ULW1201000-00	200	0.025	120	1000	Alu	hard- anodized	∅ 15.0	29.5	∅ 30.0	18.7	M6			Alu	1063.0	250



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