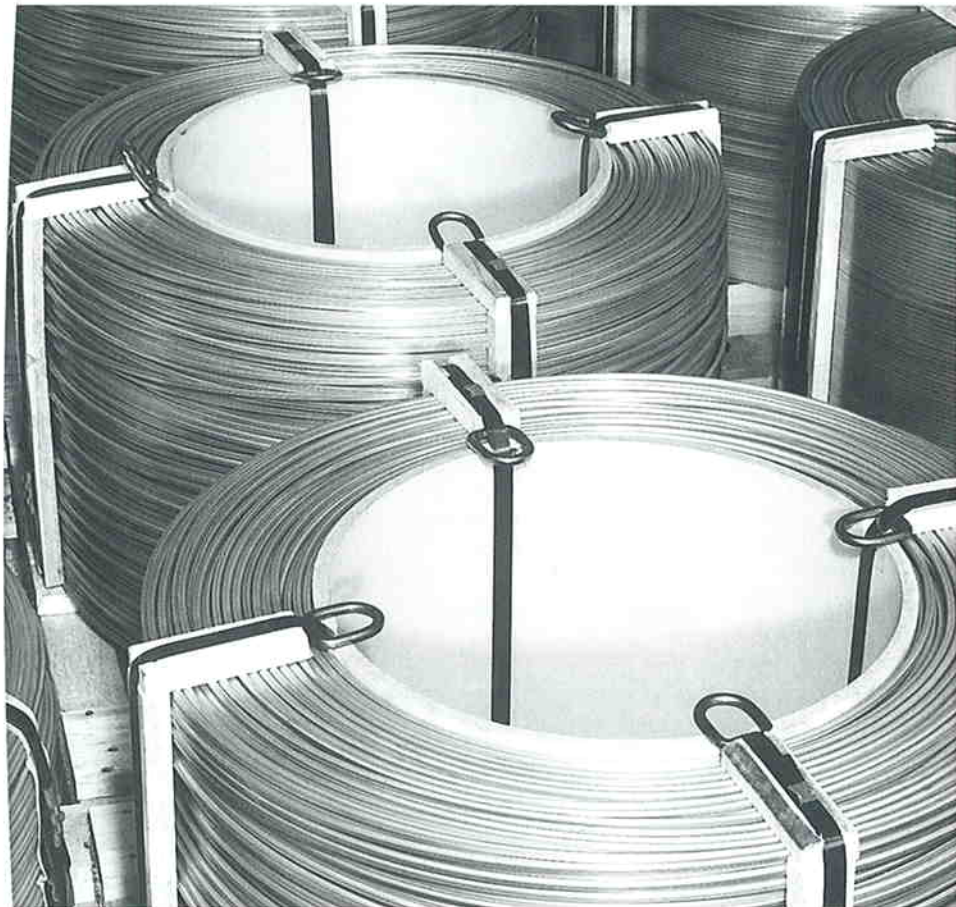


Wieland



Types of delivery and packing
Extruded and drawn products

The choice of delivery and packaging type allows the co-ordination of transport, storage and processing options across a wide range.

1. Products in straight lengths

We offer seven standard packing types which are optimised according to the products. Each package has a label at the

front side with all data required to identify the product/order. Variations to the selection shown can be arranged.

Types of packaging conditions for products in straight lengths



Wooden case for round rods < 10 mm (.39 inch) **Z011**



Bundle of round rods >= 10 mm (.39 inch) **Z021**

Wooden case for sections/tubes stackable: approx. 500 kg (1100 lbs), approx. 3 m (120 inch) **Z012**

Bundle of sections/tubes Weight: 1000 kg, 500 kg (2200 lbs, 1100 lbs) **Z022**



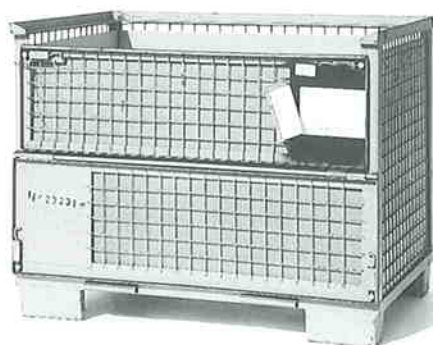
Returnable wooden case for rods Weight: approx. 1000 kg (2200 lbs) **Z031**



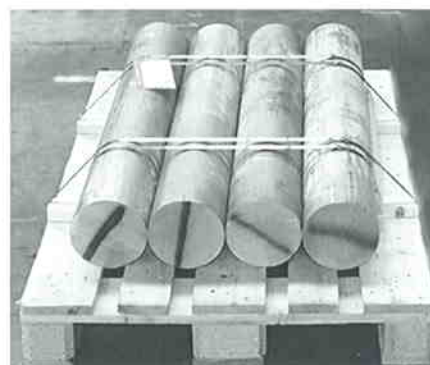
Returnable wooden case for tubes **Z032**

Cardboard for sections/tubes with interleaving foil **Z040**

Pallet with cardboard for sections/tubes in short lengths Weight: max. 500 kg (1100 lbs) **Z092**



Skeleton box for sections/tubes in short lengths Weight: max. 800 kg (1770 lbs) **Z112**



Billets on wooden pallet **Z150**

2. Products in coils (wires)

Whilst only the weight of the packaging unit must be specified for straight lengths, more detailed information is necessary for wires.

- Type of winding
- Position of section in coil (for sectional wires)
- Packaging type

Coil design					
<input type="checkbox"/>	Level-wound	<input checked="" type="checkbox"/>	Bunched/coiled	<input type="checkbox"/>	Cardboard drum
<input type="checkbox"/>	Without cardboard core	<input type="checkbox"/>	Cardboard core	<input checked="" type="checkbox"/>	Uncoiling device
<input type="checkbox"/>	Clockwise	<input checked="" type="checkbox"/>	Anti-clockwise		
<input type="checkbox"/>	Position/position	<input type="checkbox"/>	Cross-wound		
Coil weight: <u>500 kg (1100 lbs)</u>		Coil inner dia.: _____			
Coil outer dia.: <u>400 mm (15.7 inch)</u>		Coil width: <u>600 mm (23.6 inch)</u>			
Show position of sectional wire in drawing					

Picture 1: Example of a checklist

When delivery and packaging type are not specified on an enquiry/order, we choose the best combination based on our experience.

However the winding type is not freely available for all cross sections. Please see the limits in the table on page 4.

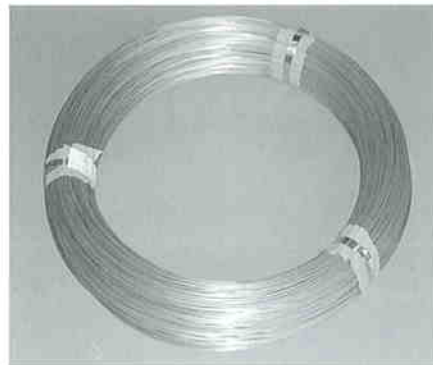
2.1 Type of winding

We differentiate between two types of winding:

- **bunched/rolled**, in this case, all windings have more or less identical diameters. The standard uncoiling direction is clockwise.

Bunched/rolled coils can be delivered in the following types:

- bunched
- in cardboard drum
- on uncoiling device

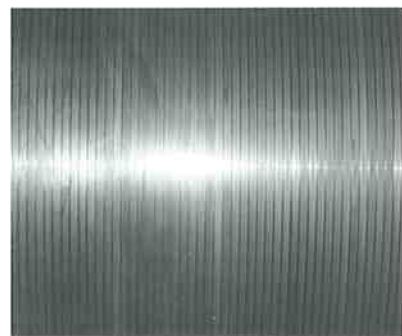


bunched coil

- **Level-wound**, In this form, windings with the same diameter are placed next to each other, and wound up, layer by layer, with an increasing winding diameter. Turning the coil by 180° will change the uncoiling direction. The type of layering (position/position or cross-wound) depends on the product and is usually specified by the manufacturer. Wires that are cross-wound can usually be uncoiled more easily. Any changes may be agreed upon request.

Level-wound coils can be delivered in the following types:

- without cardboard core
- with cardboard core



position/position



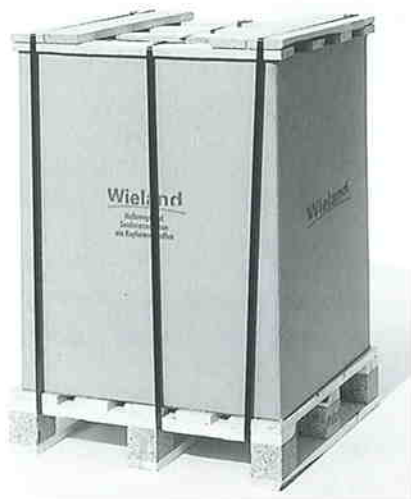
cross-wound

2.3 Packing type

The recommendations for packing depend on the agreed layering type and can be adapted to your storage and processing options. Each package has a label at the front side with all data required to identify the product/order.

The packages shown are recommendations only and changes may be agreed accordingly.

Packaging types for bunched/coiled wires

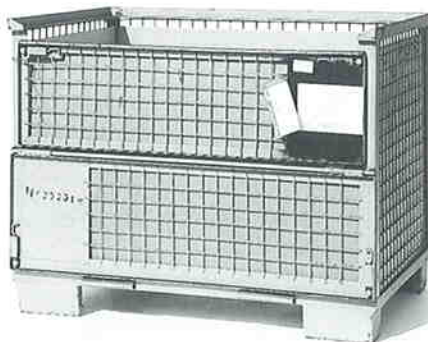


Pallet with cardboard for coils (in horizontal position)
Weight: max. 500 kg (1100 lbs)

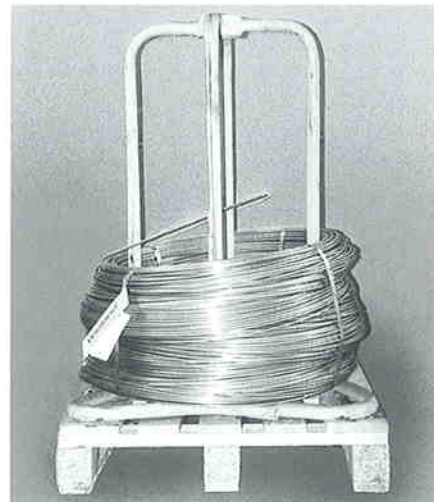
Z091



Wooden case for coils (in horizontal position) **Z100**
Coils with interleaving cardboard
Frame with cover.
Height: max. 70 cm (27.5 inch), Weight: max. 800 kg (1770 lbs)



Skeleton box for coils with interleaving cardboard **Z111**
(in vertical/horizontal position) box lined with cardboard
Weight: max. 800 kg (1770 lbs)



Uncoiling device for wire in coils **Z140**
On pallet 80 x 80 cm (31.5 x 31.5 inch), fixed with steel strap
Total height: 112 cm (44.1 inch)



Cardboard drum **Z130**
Bundled wire, drum with cover, Outer-Ø x Core-Ø x Height
= 600 x 400 x 550 (23.6 x 15.7 x 21.7 inch)
Pallet 75 x 75 cm (29.5 x 29.5 inch)

Packaging types for level-wound coils



Pallet for level-wound wire (in horizontal position) **Z060**
without cardboard core / on cardboard core,
fixed with 4 steel straps
Weight: max. 1000 kg (2200 lbs)

3. Re-usable packing

With the environment and the reduction of disposal costs in mind, most Wieland products are packed in re-usable packaging.

These particularly stable designs offer optimum protection against transportation damage and offer ease of handling. These are supplied to you or returned to us free of charge upon request. All re-usable packaging is labelled as follows:

Wieland
Returnable packing
We appreciate a
quick return.

Wieland

WIELAND-WERKE AG
www.wieland.com

Extruded and
Drawn Products Division

89079 Ulm, Graf-Arco-Strasse 36, Germany, Phone: +49 (0)731 944-0, Fax: +49 (0)731 944-2070

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Type of layering	Uncoiling direction	Cross section of wires		Coil dimensions		Coil weight, maximum (Coil width)
		Round, square and hexagonal wires (ø or hex in inch)	Sectional wires (weight/ft in lbs/ft) partly limited due to shape	Inner diameter in inch	Outer diameter in inch	
Bunched/pre-bent, in coils		.06 - .08	.010 - .018	approx. 15.7	approx. 21.7	55 lbs
		.09 - .12	.019 - .040	approx. 15.7	approx. 23.6	110 lbs
		.12 - .18	.041 - .072	approx. 15.7	approx. 25.6	175 lbs
		.19 - .22	.073 - .136	approx. 19.7	approx. 27.6	220 lbs
		.23 - .51	.137 - .758	approx. 21.7	approx. 35.4	550 lbs
Bunched/pre-bent, in cardboard drum	Anti-clockwise	.06 - .12 (.18)* Round only!	–	15.7	23.6	485 lbs (small drum) 880 lbs (large drum)
Bunched/pre-bent, on uncoiling device		.06 - .12 (.18)* Round only!	–	15.7	23.6	1100 lbs
Level-wound, without cardboard core	Selectable	.06 - .16	.010 - .055	15.7	31.5	550 lbs (11.8 inch)
		.16 - .39	.056 - .448**	19.7/23.6/27.6	35.4	1540 lbs (7.9 - 19.7)
		.16 - .39	.056 - .448**	19.7	39.4	2200 lbs (max. 19.7 inch)
Level-wound, with cardboard core		.06 - .16	.010 - .055	15.7	31.5	550 lbs (11.8 inch)
		.16 - .39	.056 - .448**	19.7/23.6/27.6	35.4	1540 lbs (7.9 - 19.7)
		.16 - .39	.056 - .448**	19.7	39.4	2200 lbs (max. 19.7 inch)

* Dimensions > .118 inch require special designs for the uncoiling process of coils delivered in drums or uncoiling devices

** Larger dimensions and weight/ft can be provided on request