



Westfälische  
Drahtindustrie GmbH

## WIRE

Production- and  
Delivery Programme





WDI site in Hamm

## The company

Westfälische Drahtindustrie GmbH can trace its origins to a factory for wire production that was founded in 1856. As early as, 1872 the firm became a public limited company (AG) and since 1890 it has run under its current name, **WDI**.

The company has occupied a key position in the wire industry for over 150 years, both nationally and internationally. Following other firms (Krupp/Klöckner) joining the group down the line, since 1 October 1987, the company once again has been trading in the market as Westfälische Drahtindustrie GmbH.

With its main office in Hamm, Westfälische Drahtindustrie GmbH has now become Europe's largest non-consolidated producer of wire. Finished goods are produced for various business fields at the following production sites, including 15 in Europe and 1 in Canada:

### WDI WIRE



Hamm, Rothenburg/Saale, Iserlohn, Brothertode, Brandenburg

### WDI BRIGHT STEEL



Hamm, Schwerte, Zweibrücken

### WDI CONSTRUCTION STEEL



Salzgitter

### WDI PRE-STRESSING STEEL



Nedri Spanstaal B.V., Venlo (NL), Hamm

### WDI WELDING TECHNOLOGY



Hamm, Rothenburg/Saale

### WDI WIRE ROPE



Dortmund, Syke, Zwickau  
UNIROPE Ltd. Mississauga (Canada)

### WDI OVERHEAD POWERLINES



Rothenburg/Saale, Berlin

### WDI FENCING



Bad Gandersheim



Wettin/Löbejün • Site Rothenburg

# Production- and Delivery Programme

## WIRE

### Steel wire

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## General

### Steel wire for ropes

Round wire for crane cables, elevator cables, lift systems, mining cables, forestry applications, architectural cables, cables for the automotive and aviation industry, special cables for the offshore technology area, profiled wires for special applications, fully-closed/half-closed cables for guy wire systems, mountain railways, transport systems, profiled wires for reinforcements in the offshore technology sector

## Products

### Steel wire for ropes to EN 10264

## Surfaces

bright, galvanized drawn, heavy galvanized drawn, final galvanised, ZnAl coated

## Packaging / Delivery form

- Z-2 coils with 350 - 500 kg
- Z-3 coils (with/without cardboard core) with 500 - 2.500 kg
- Steel and Plastic spools
- Customer spools on request

## Qualities / EN ISO

unalloyd steel to EN 10016 / EN ISO 16120

## Dimension ranges

| tensile grade<br>(N/mm <sup>2</sup> ) | bright<br>(mm Ø) | galvanized<br>(mm Ø) | heavy<br>galvanized<br>(mm Ø) | ZnAl coated<br>(mm Ø) |
|---------------------------------------|------------------|----------------------|-------------------------------|-----------------------|
| <b>1370</b>                           | 0,24 - 8,00      | 0,24 - 6,00          | 0,70 - 4,00                   | 0,60 - 5,00           |
| <b>1570</b>                           | 0,24 - 8,00      | 0,24 - 6,00          | 0,70 - 4,00                   | 0,60 - 5,00           |
| <b>1770</b>                           | 0,20 - 6,50      | 0,20 - 5,50          | 0,70 - 4,00                   | 0,60 - 4,00           |
| <b>1960</b>                           | 0,18 - 5,00      | 0,18 - 4,30          |                               | 0,60 - 3,00           |
| <b>2160</b>                           | 0,18 - 4,00      | 0,18 - 3,55          |                               | 0,60 - 2,50           |
| <b>2260</b>                           | 0,18 - 3,40      | 0,18 - 3,20          |                               |                       |
| <b>2360</b>                           | 0,18 - 2,00      | 0,18 - 0,80          |                               |                       |
| <b>2460</b>                           | 0,18 - 0,50      | 0,18 - 0,50          |                               |                       |
| <b>2800</b>                           |                  | 0,18 - 0,30          |                               |                       |



## General

Steel wire for overhead powerlines

## Products

Steel wire for overhead powerlines  
EN 50189 • IEC 888 • ASTM B 498  
SS 424 08 05 • NFC 34-113

## Surface

hot galvanized

## Production sites

Steel wire for ropes

**Westfälische Drahtindustrie GmbH**  
**Site Hamm**

Wilhelmstr. 7 • 59067 Hamm

Phone: +49 (0) 2381 / 276-0

Fax: +49 (0) 2381 / 276-211

E-Mail: draht.hamm@wdi.de

## Packaging / Delivery form

- wooden drums or steel spools up to max. 800 mm flange diameter
- Z-2 coils (wire diameter 1,25 - 3,00 mm)
- wound coils

## Qualities / EN ISO

unalloyed steel to EN 10016 / EN ISO 16120

## Dimension ranges

wire diameter: 1,25 - 6,00 mm

Steel wire for ropes / Steel wire for overhead powerlines

**Westfälische Drahtindustrie GmbH**  
**Site Rothenburg**

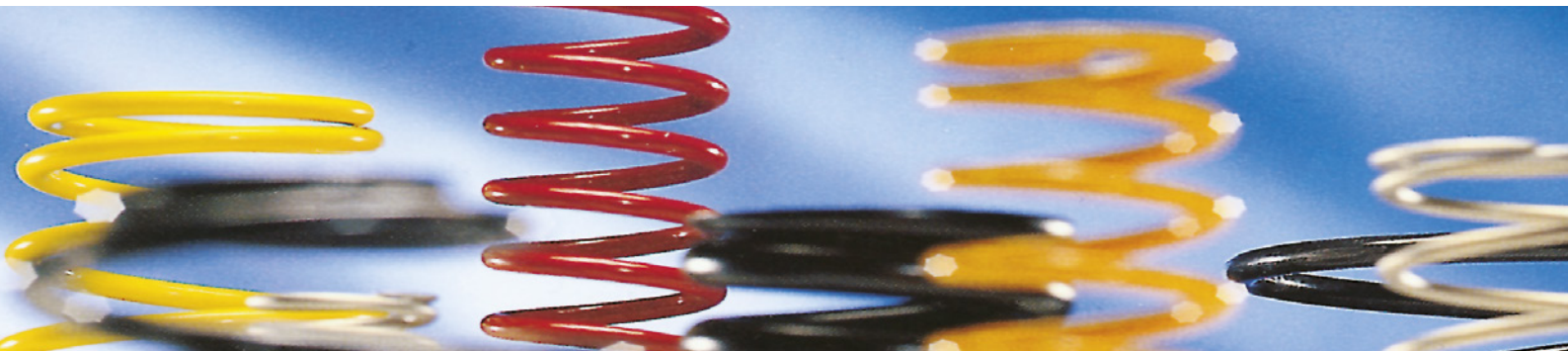
OT Rothenburg • Friedensstr. 21

06193 Wettin-Löbejün

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General

Steel wire for technical springs

Automotive industry, mechanical engineering, window and door equipment, agricultural technology, furniture industry, wire for filter industry and for other various industrial applications

Products

Spring steel wire for technical springs EN 10270-1

Surfaces

bright-grey, phosphated, galvanized, dry reddish, bright-wet coppered, ZnAl - coated

Dimension ranges

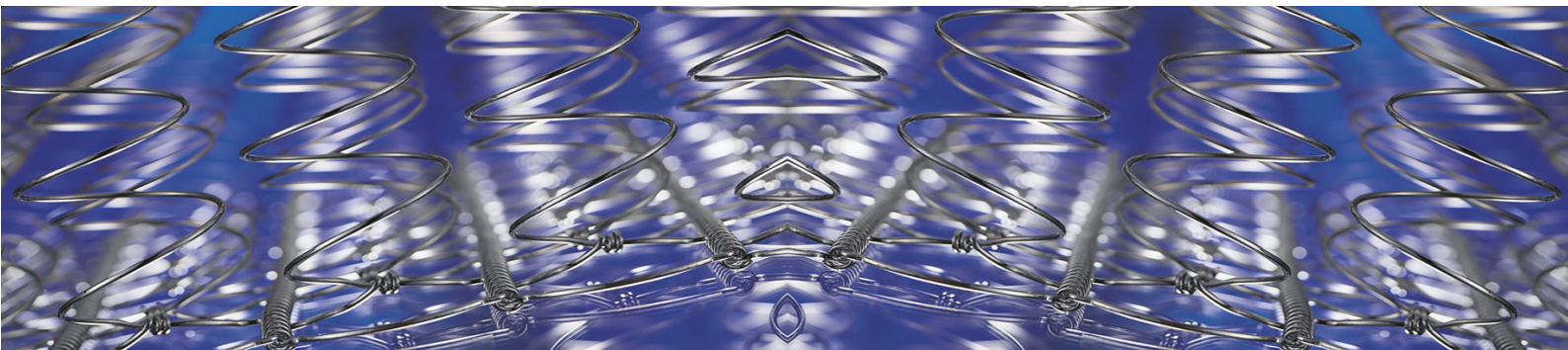
|            |                     |                 |
|------------|---------------------|-----------------|
| Type SL    | bright / phosphated | 1,00 - 10,00 mm |
|            | galvanized          | 0,60 - 10,00 mm |
|            | ZnAl coated         | 0,60 - 4,50 mm  |
| Type SM/DM | bright / phosphated | 0,60 - 20,00 mm |
|            | galvanized          | 0,60 - 11,00 mm |
|            | ZnAl coated         | 0,60 - 4,00 mm  |
| Type SH/DH | bright / phosphated | 0,60 - 20,00 mm |
|            | galvanized          | 0,60 - 11,00 mm |
|            | ZnAl coated         | 0,60 - 3,50 mm  |

Qualities / EN ISO

Non-alloy steel wire rod / EN ISO 16120

Packaging / Delivery form

- fabrication coils
- Z-2 coils 350 - 500 kg
- Z-3 coils (with/without cardboard core) 750 - 1.000 kg
- Cheese wound coils (without cardboard core) 1.000 - 2.500 kg
- Spider 750 - 2.500 kg
- pattern layd coils (with cardboard core) 750 - 1.200 kg
- metal and plastic spools
- rods (straightened and cut) up to max. 6.000 mm length, depending on size



## General

### Bedding and seating wire

Furniture and Automotive industry

## Products

### Bedding and seating wire

tailor-made products

## Surfaces

bright-grey, phosphated, galvanised

## Production sites

### Westfälische Drahtindustrie GmbH

#### Site Hamm

Wilhelmstr. 7 • 59067 Hamm

Phone: +49 (0) 2381 / 276-0

Fax: +49 (0) 2381 / 276-211

E-Mail: draht.hamm@wdi.de

## Packaging / Delivery form

- metal spools 350 – 500 kg
- Z-2 coils 350 - 500 kg
- Z-3 coils (with/without cardboard core) mit 500 - 1.500 kg
- formers 750 - 1.500 kg
- pattern layd coils with cardboard core 750 - 1.200 kg

## Qualities / EN ISO

Non-alloy steel wire rod / EN ISO 16120

## Dimension ranges

0,8 mm - 5,00 mm

### Westfälische Drahtindustrie GmbH

#### Site Rothenburg

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## General

Consistent customer orientation, a high degree of willingness to innovate, continuous investment and qualified employees are the basis for WDI's leading position in cold forming wire.

Our products are used in all areas of industrial production. In particular the automotive industry, mechanical engineering, the construction industry and the electrical industry.

We supply the European and international market with cold forming wires in the dimensional range from 1.5 mm - 42 mm.

We manufacture at our locations Hamm and Iserlohn cold heading wires according to your expectations.

## Products

- Cold heading Wire / Cold extruding steel
- Tempering steel • Chain steel
- Roller bearing steel • Tooling steel
- AFP steel • Case-hardened steel
- Special analyses on request

**We are the professionals  
for cold heading wire**





## Products

- Cold heading wire / Cold extruding steel
- Tempering steel • AFP steel
- Case-hardened steel

## Qualities / DIN EN

- according to DIN EN 10263 Part 2-4
- according to DIN EN 10267
- Special analysis on request

## Surfaces

- phosphated • polymer coated
- thermo coated • copper-plated • bright
- **WDImer** (wire diameter: 1,5 – 5,5mm)  
see also page 12

## Production sites

### Westfälische Drahtindustrie GmbH

#### Site Hamm

Wilhelmstr. 7 • 59067 Hamm

Phone: +49 (0) 2381 / 276-283

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E-Mail: kaltstauchdraht@wdi.de

## Treatment conditions

+U+C

+AC

+U+C+AC

+AC+C

+A+C+AC

+U+C+AC+LC

+A+C+AC+LC

## Dimension ranges

Site Hamm: 1,5 mm – 30 mm

Site Iserlohn: 6,0 mm – 42 mm

Profiles on request

## Packaging / Delivery form

Formers • cheese wound coils

Reels • Tailor-made

### Westfälische Drahtindustrie GmbH

#### Site Iserlohn

Mühlenstr. 15 • 58640 Iserlohn

Phone: +49 (0) 2371 / 94 92-0

Fax: +49 (0) 2371 / 94 92-50

E-Mail: draht.kalthof@wdi.de



### Spring steel wire

- Compression, tension and HIFO springs for reliable building insulation & vibration damping
- Primary and secondary springs for rail transport technology such as locomotives, passenger coaches, suburban trains, double-decker coaches, freight wagons and compound vehicles such as the ICE
- Vehicle support and lowering springs for the automotive aftermarket as well as for the tuning and automotive industries
- Springs in mechanical and plant engineering, e.g. for agricultural machinery, robotics and energy technology

### Products

#### Tempering steel for technical springs

### Surfaces

- phosphated
- polymer-coated
- thermo-coated

### Dimension ranges

wire diameter: 7,0 mm – 40 mm

### Treatment conditions

- +AC
- +AC+C
- +AC+SH
- +AC+SH+C

### Qualities / DIN EN

- according to DIN EN 10089
- Special analysis on request

### Packaging / Delivery form

- Reels
- Tailor-made

### Production site

#### Westfälische Drahtindustrie GmbH

##### Site Iserlohn

Mühlenstr. 15 • 58640 Iserlohn

Phone: +49 (0) 23 71 / 94 92-0

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E-Mail: draht.kalthof@wdi.de



## General

### Chain steel wire

## Products

unalloyd and alloyed  
chain steel wire

## Surfaces

- thermo-coated
- limed
- bright-light / bright

## Dimension ranges

wire diameter: 4,0 mm – 25 mm

## Treatment conditions

+U+C  
+AC+C  
+A+C+AC  
+U+C+AC+LC  
+A+C+AC+LC

## Qualities / DIN EN

- according to DIN EN 17115
- Special analysis on request

## Packaging / Delivery form

- Formers
- cheese wound coils
- Reels
- Tailor-made

## Production site

**Westfälische Drahtindustrie GmbH**

**Site Iserlohn**

Mühlenstr. 15 • 58640 Iserlohn

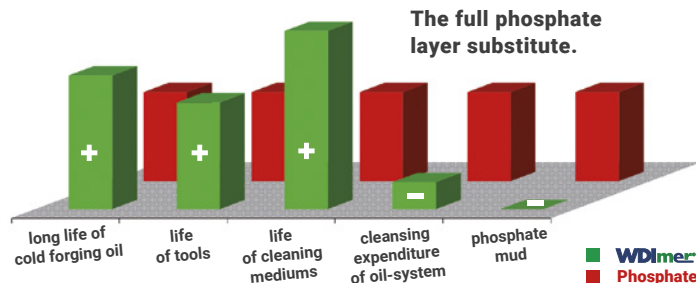
Phone: +49 (0) 23 71 / 94 92-0

Fax: +49 (0) 23 71 / 94 92-50

E-Mail: draht.kalthof@wdi.de



We are the professionals  
for cold heading wire



### Production site

**Westfälische Drahtindustrie GmbH**  
**Site Hamm • Cold Heading Wire Division**  
Wilhelmstr. 7 • 59067 Hamm  
Phone: +49 (0) 2381 / 276-283  
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E-Mail: kaltstauchdraht@wdi.de

**WDImer®**  
A new generation in technology

**WDImer-technology is for:**

**Higher environmental compatibility - lower costs**

- Aggressive re-phosphating chemicals can be substituted with **WDImer**-technology by more environmental acceptable mediums.
- Coating free of phosphate



Contains no dangerous contents materials  
above the limit values according to  
(EG) No. 1907/2006  
Free of Borat and Nickel

### Performance range

- for cold heading wires  $\leq 5,5\text{mm}$
- High processing qualities with diminished layer weight
- less / reduced tool wear
- **WDImer** is suitable with all cold forging oils
- Long life of cold forging oils by lower usage
- steady, optimum layer stamping with **WDImer**-technology within the whole wire heart
- Improved machine characteristics by reduced soiling of the cold forging tools



## General

In addition to our extensive range of bright steel products, we also offer all standard free-cutting steels used in the market.

## Packaging / Delivery form

- Coils up to 2.500 kg
- Reels
- Formers

## Treatment conditions

|                   |      |                                        |
|-------------------|------|----------------------------------------|
| <b>+U+C</b>       | K    | cold drawn                             |
| <b>+A+C</b>       | GK   | soft-annealed and cold-drawn           |
| <b>+AC+C</b>      | GKZK | annealed and cold-drawn                |
| <b>+U+C+AC+LC</b> | KGK  | cold-drawn and annealed and cold-drawn |

## Production sites

**Westfälische Drahtindustrie GmbH**  
**Bright Steel • Site Schwerte**  
Binnerheide 23 • 58239 Schwerte  
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**Nedri Industriedraht GmbH**  
August-Thyssen-Str. 2  
59067 Hamm  
Phone: +49 (0) 23 81 / 271-03  
Fax: +49 (0) 23 81 / 271-365  
E-Mail: info@nedri.de

## Qualities / DIN EN 10277

- with and without Pb
- with and without Te
- Special qualities on request

## Dimension ranges

- Coils 2 - 15 mm Ø
- Reels 2 - 12 mm Ø
- Formers 2 - 10 mm Ø
- Profiles such as: square, hexagonal, half-rounded
- Special profiles on request
- Tolerances ISO h11-h9-h8

## Surfaces

- bright-light / bright





### General

#### Steel wire / Industrial wire

Machine, plant and steel construction industry, Retail store construction, Displays, Automotive and Furniture industry, Household goods, Chains, Shotblast material, Tool carrier, Filter industry, Fence construction, Garden and landscape structuring, Fasteners, Building industry, Electrical and cable industry, Wire bending parts, Domestic appliances, Animal husbandry, Welding technology, Lightning protection systems, Gabions and Packaging industry

### Products

#### Low carbon wire

bright surface  
for chrome-plating surfaces  
for coatable surfaces  
for zinc coating surfaces

#### Geometry

round, square, hexagonal, profiled,  
flat and special profiles

### Qualities / DIN EN

- according to DIN EN
- Low carbon steel grades
- other qualities on request

### Dimension ranges

Wire diameter: 0,50 mm – 15,00 mm  
other grades, profiles and surfaces available  
on request

## Treatment conditions

|                   |     |
|-------------------|-----|
| <b>+U</b>         |     |
| <b>+U+C</b>       | K   |
| <b>+AC</b>        | G   |
| <b>+AC+C</b>      | GK  |
| <b>+U+C+AC</b>    | KG  |
| <b>+U+C+AC+LC</b> | KGK |

## Surfaces

bright, bright-wet (white, reddish or coppered), bright-dry, bright-light (bright or reddish), rolled bright, black-, scale-free or bright annealed, etched, limed, bonderised, soft / hard galvanized, thick galvanized, ZnAl coated, electrolytic metallic coating (nickel, zinc, copper), plastic coated

## Packaging / Delivery form

Coils, Formers, cheese wound coils, pattern layd coils, wire bars, spools, others on request

## Production sites

### Westfälische Drahtindustrie GmbH

#### Site Hamm

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### Westfälische Drahtindustrie GmbH

#### Site Brandenburg

Kummerléstraße 1

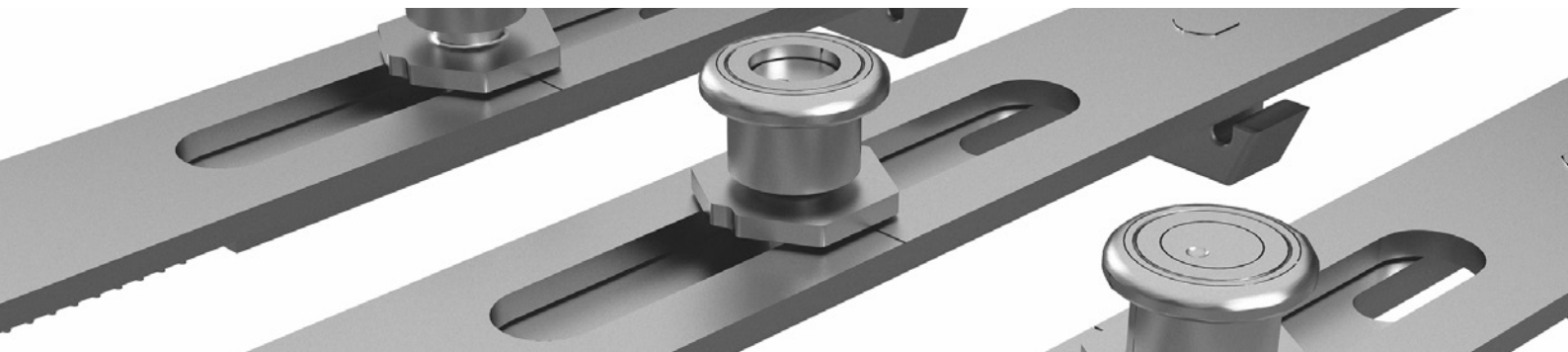
14770 Brandenburg an der Havel

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Fax: +49 (0) 33 81-79 37 879

E-Mail: draht.brandenburg@wdi-dsw.de





## General

Cold rolled flat and shaped wires in coils and bars

### Cross section

flat, semi-circular, oval, triangular, rectangular,  
square wire (from 4 up to 10 mm),  
special profiles on request

### Edge geometry

sharp-edged, broken edges, rounded edges,  
round edges ( $R=0,5 \times \text{Thickness}$ ), tailor-made

### Packaging / Delivery form

- Cheese wound coils  
(Inner-Ø: 400, 500, 600 mm, weight max. 2.500 kg)
- Bars - bundle  
(500 – 1.000 kg, Length: 2.000 – 6.000 mm)
- Other packaging on request

### Qualities / EN

According to EN 10139  
Special Grades on request  
Eddy-current testing on request  
Strength:  $280 \text{ N/mm}^2$  up to  $1.800 \text{ N/mm}^2$

### Dimension ranges

Width: 4 – 25 mm  
Thickness: 2 – 8 mm  
Cross Section: 15 – 120 mm<sup>2</sup>

### Production site

**Westfälische Drahtindustrie GmbH**

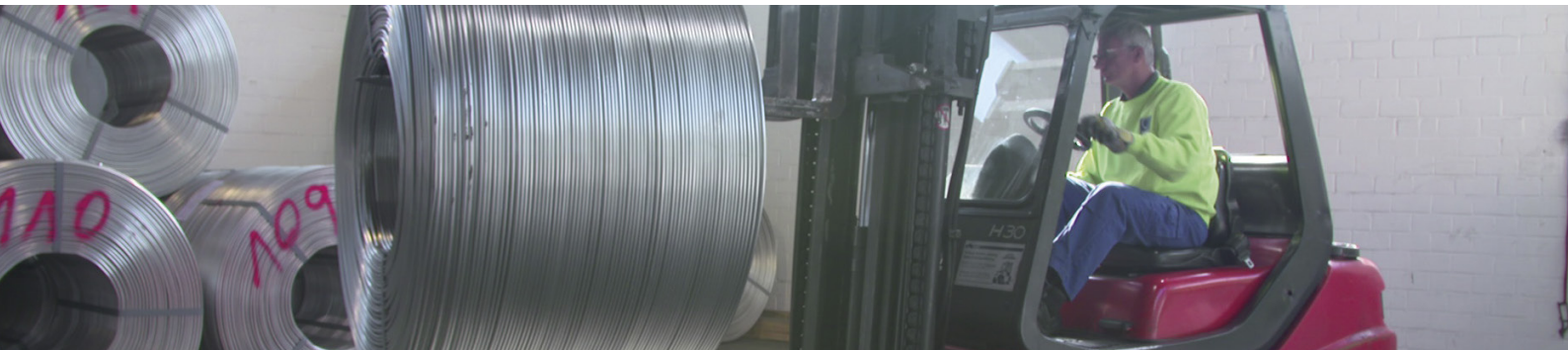
**Site Brotterode**

Am Drahthammer 1 • D-98596 Brotterode

Phone: +49 (0) 36 840-41 41 1

Fax: +49 (0) 36 840-3 22 65

E-Mail: draht.brotterode@wdi.de



## General

### Aluminium wire

## Treatment conditions

hard-drawn, hard-drawn and tempered,  
annealed and cold-drawn

## Surfaces

- bright
- bright clean (for food industry)
- PVC-coated

## Packaging / Delivery form

- Conical coils max. 1.000 kg
- Coils with max. 630 mm flange diameter
- Standard coils

## Qualities / EN

E-Aluminium according to EN 60889  
AlMgSi0.5 (EN AW 6101) according to EN 50183  
Al 99.7 % min. (EN AW 1370) according to EN 50183  
Aluminium for Cold forming/heading

## Dimension ranges

Wire diameter: 1,80 - 13,00 mm

## Production site

**Westfälische Drahtindustrie GmbH**

**Site Rothenburg**

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E-Mail: [aludraht@wdi-dsw.de](mailto:aludraht@wdi-dsw.de)



### General

Electrical conductor for overhead transmission and distribution lines in various designs and sizes for the connection of transformer substations, conventional, solar or wind power plants as well as upgrading of existing lines by means of thermal resistant (high temperature) conductors to increase transmission capacity of medium and high voltage electrical grids.

### Products

- Aluminium Conductors Steel Reinforced according to National and International Standards
  - with galvanized steel core (ACSR)
  - with Aluminium Clad Steel core (ACSR/AW)
  - made of Aluminium Alloy (AACSR, AACSR/AW)
  - made of Thermal-Resistant Aluminium (TACSR, TACSR/AW, GTACSR, GZTACSR)
- Aluminium Conductor according to National and International Standards
  - Electrical Grade Aluminium (Al 99.7%)
  - Thermal-Resistant Aluminium (ZrAl)
- Aluminium Alloy Conductor according to National and International Standards
  - Aluminium Alloy (AlMgSi) in various tempers (AL3, AL5, AL59)
- Steel strands for earthing and grounding application according to National and International Standards
  - galvanized • ZnAl coated • Aluminium clad
- Sector shaped, round and square compacted strands for cable core of insulated MV and HV cables
- High temperature / Low Sag (HTLS) conductor for operation from 150°C to 210°C
- Other special conductors can be produced upon request



### Qualities

- Electrical Grade Aluminium wire for conductor application
- Aluminium Alloy wire for AAAC and AACSR
- Thermal resistant ZrAl according to EN 62004
- Galvanised steel wire according to EN 50189
- Aluminium clad steel wire according to EN 61232

### Treatment conditions

- hard drawn
- annealed
- hard drawn and artificially aged

### Production sites

#### **Westfälische Drahtindustrie GmbH Site Rothenburg**

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E-Mail: falko.saemisch@wdi-dsw.de

### Surfaces

- bright
- dull/dark (low thermal emissivity)

### Dimension ranges

16 - 1.250 mm<sup>2</sup> cross-section

### Packaging / Delivery form

- Steel or wooden drums with up to 2.600 mm flange diameter
- Coils (500 – 1.000 kg)
- coiled Rings

#### **Westfälische Drahtindustrie GmbH Site Berlin**

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12347 Berlin

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# Westfälische Drahtindustrie GmbH

## WIRE

### Legal Notice

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