WiTechs is a young mechanical engineering company – innovative and focused on the future. Established in 2007, today we are already the technology leader in the in-line pre-treatment of wire. Our service range consists of wire pay-offs, systems for the mechanical descaling of wire as well as the coating and cleaning of wire. With us you will give your wire production the best start.

Our team of expert engineers and technicians deliver a high level of value added right at the beginning of the process chain. WiTechs lines meet the most varied surface demands, and provide you with productivity and savings potential. Worldwide, we are linked to a strong partner and sales network, always close to our customers.

Wire quality begins with us

Wire rod pay-offs

Wire descaling lines

Wire coating lines

Wire cleaning lines

Accessories
Quality at the beginning of the production will pay dividends later. This is why our pay-offs can do more than just lead the wire of the coil into a single strand. With optimal pre-treatment of the wire, your drawing processes run more quickly and smoothly. Within our designs and developments we always have your entire wire production in mind.

WIRE PAY-OFF.
The best first.

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**HA-F / CVE**
Horizontal Wire Rod Pay-Off

- Suitable for paying-off steel wires (high carbon / higher tensile strength)
- Wire diameter: 5.5 - 14.0 mm
- Pay-off speed: up to 3.0 m/s
- Coil weight: approx. 3x 2.0 t
- The pay-off consists of two units, one movable part (HA-F horizontal pay-off) and one fixed part (CVE coil pusher)

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**ADT**
Pay-Off Turntable with Dancer

- Size range 3.0 - 14.0 mm
- Coil weights up to 3.0 t
- Dancer enables paying-off in either direction

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**UEKA-1 / UEKA-2**
Wire Rod Overhead Pay-Off

- Wire rod diameters up to 16.0 mm
- Total height: 6.0 - 9.0 m
- Pay-off speed up to 10.0 m/s
- Scale area covered entirely by tarpaulin (optional)
- Hydraulically tiltable pay-off cones
- Upper guiding roller and loop catcher movable by means of a chain hoist

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**UEKA-4**
Wire Rod Overhead Pay-Off

- Diameters up to 19.0 mm
- Hydraulically tiltable pay-off cones
- Guide roller movable by means of a chain hoist
- Wire speed up to 10.0 m/s
- Height up to 10.0 m
- Fully enclosed design
- Lightweight and heavyweight versions
WIRE DESCALING.
Cleanliness invites speed.

Before the wire drawing process our machines clean the surface of the wire. This ensures speed in the subsequent process and brings savings too. Be it bending descaling, steel wool descaling or sanding descaling– thorough cleaning increases the drawing speed and the lifetime of the die. The more thoroughly this is done, the faster the process and the better the quality of the end product. Our descaling methods are available for almost any type of wire.

WEZ-3
Bending and Breaking Descaler
> Wire diameter 5.5 - 16.0 mm (LC)
> Bend-angle infinitely adjustable using worm gear
> Easy to operate; wire does not require prebending by hand
> Bending rolls with long lifetime tungsten carbide inserts

BBE
Bending and Breaking Descaler
> Wire diameter 5.5 - 16.0 mm (LC + HC)
> Wire processed in four bending directions
> Easy to operate; wire does not require prebending by hand; pneumatic or hydraulic – optional
> Bending rolls with long lifetime tungsten carbide inserts

WEZ-1/65Z
Bending and Breaking Descaler
> Wire diameter: 5.5 – 6.5 mm (LC)
> Bending and breaking of scale in 2 levels (4 directions)
> Outstanding bending angle (approx. 540° in total)
> Very compact machine housing
> Transport of scale by a scale waggon on wheels (screw conveyor optional)
> Wire break control as an option
> Bending rolls with long lifetime tungsten carbide inserts

WBE/6L
Brush Descaling Machine
> Wire diameter (LC / HC): 5.5 – 10.0 mm (opt. 18.0 mm)
> For brush descaling and removal of scale and medium rust
> Suitable for any wire quality
> 3 pairs of linear adjustable brushes arranged in an offset of 90°
> Special brushing process achieves outstanding surface quality
> Automatically re-adjustment of brushes until complete wearout
> Long lifetime of brushings due to a high efficiency degree

RWCB/400-2
Brush Descaling Machine
> Brush descaler for all wire qualities (LC / HC)
> Wire speed up to max. 4.0 m/s
> Wire diameter 5.5 - 8.0 mm (optional up to 30.0 mm)
> Brush speed adjustable (optional)
> Special brushing process achieves outstanding surface quality

RWCB/400-3
Brush Descaling Machine
> Brush descaler for all wire qualities (LC / HC)
> Wire speed up to max. 4.0 m/s
> Wire diameter 5.5 - 16.0 mm (optional up to 30.0 mm)
> Brush speed adjustable (optional)
> Special brushing process achieves outstanding surface quality
SEZ-8-150
Longitudinal Sanding Machine
- Wire Rod Diameter 5.5 - 12.0 mm
- Wire inlet speed 8.0 m/s
- Sand belt cutting speed adjustable
- Contact pressure adjustable
- Grinding of defect free surfaces possible

PES-1200
Steel Wool Descaling Machine
- Cleans wires by stripping wire surface using steel wool or other polishing media
- Wire diameter 5.5 - 6.5 mm (optional up to 8.0 mm)
- Four steel wool pads arranged offset at 90° to each other
- Application pressure adjustable using pneumatic cylinder
- Each steel wool pad individually adjustable
- Optionally extendable with integrated bending and breaking descaler

LB-1100
Blasting Unit
- Wire diameter (LC) 0.8 - 5.0 mm
- Wire diameter (HC) 0.8 - 5.0 mm
- Wire passing speed up to 3.5 m/s
- Blasting unit for removal of scale or resp. oxide layer
- Processing of pre-drawn wire e.g. after heat treatment
- Closed circuit including integrated extraction system
- Wide range of blasting abrasives allows multi-purpose applications
- Adjustment of all relevant parameter by touch panel
- Most compact design
WIRE COATING.
Simply faster with us.

You want to draw wire – we prepare it thoroughly. Be it wet coating or dry coating – an even and reproducible layer guarantees reliability in the production procedures. It enables speeds that make the drawing or rolling process even more productive. That is our aim – because economical procedures for our clients drive us.

BSG / T
Dry Coating Machine
> Drawing speed max. 10.0 m/s
> Very even coating
> Low stearate consumption
> Wire diameter 5.5 - 16.0 mm
> Coating chamber and separation chamber with screw conveyers

BSG / TF
Dry Coating Machine
> Drawing speed max. 10.0 m/s
> Very even coating
> Low stearate consumption
> Wire diameter 5.5 - 1.0 mm
> Coating chamber and separation chamber with screw conveyers
> Filter add-on for dust-free production with a closed stearate circuit

HSBE-3302
Wet Cleaning and Coating Machine
> Wire diameter 5.5 - 10.0 mm (larger on request)
> In-line cleaning, e.g. hot water or using liquid cleaning agents
> Especially suitable for mechanically descaled wire rod, but also for acid-cleaned rod
> Lubricant carrier-coating with an organic salt mixture instead of pure borax (drawing agent carrier)
> Coating and drying at in-feed speeds up to 4.0 m/s
> Stainless steel build protects against corrosion
> Extensive control and monitoring features for a safe production process
WIRE CLEANING.
Achieve perfection.

Each customer has specific requirements on the wire’s level of purity. This is why our procedures after the drawing process are equally clean. Drawing agent residue is removed from the wire rod in two ways – conventionally, using the highly effective wet brushing, or with our new multi-stage cleaning process for high through-speeds. Both processes can be coupled with a filtration system to ensure continuous operation.

AFTERSALES.
We care.

Direct, fast and straightforward – that’s how we work also after the sale. You can benefit from our extensive stock and our network of partners. Technical service from WiTechs ensures your efficient workflow and high quality. sales@witechs.de.

HSRT-2600
Hot Rinsing Cleaning and Drying Unit
> Removes drawing agent residues
> Improves surface quality of wire
> Wire diameter 1.2 - 5.0 mm
> Integrated drying unit
> Wire speed up to max. 18 m/s

TBM / 2B-N
Wet Cleaning Brush Machine
> Removes drawing agent residue
> Improves surface quality of wire
> Wire diameter von 1.0 - 8.0 mm
> Integrated drying unit
ACCESSORIES.  
A booster for your system.

Accessories exactly matched to your system are the perfect addition to your technology portfolio. They make your day-to-day work easier and guarantee the required quality of the end product. Be it pre-feeding units, straightening machines, auxiliary equipment or custom solutions – our qualified employees are happy to help.

MRE  
Motorised Drawing-In and Straightening Device
> For straightening and driving wire into a drawing line
> Wire diameters up to 16.0 mm
> Straightening system with five straightening rollers
> Rollers applied hydraulically or pneumatically
> Rollers made from tool steel or carbide

DEG-5  
Wire Stress Relieving Device
> Wire diameters up to 8.0 mm
> Stress relieving on one or two levels with five stress relieving rollers
> Rollers applied hydraulically or pneumatically
> Rollers made from tool steel or tungsten carbide

DEG-57  
Wire Stress Relieving Device
> Wire diameters up to 16.0 mm
> Stress relieving on one or two levels with seven stress relieving rollers
> Rollers applied hydraulically or pneumatically
> Rollers made from tool steel or tungsten carbide

MKS-1 / MKS-2 / MKS-3  
Multi Soap / Die Box
> Straightener
> Dry and/or Wet drawing
> Water-cooled die
> Rotating Die Holder

DZH-1S / DZH-2S  
Rotating Die Holder
> Dies up to Ø 75.0 mm
> Water-cooled die

Collapsible Spools, Standard Spools, Special Spools
Made to custom dimensions such as:
> Flange diameter
> Core diameter
> Laying width
> Mounting hole
> 4 - 8 segments