

Maschinen und Dienstleistungen  
für die Drahtindustrie

**schmidt**

Maschinenbau GmbH  
Machines for the wire industry

# Stainless Steel Wire Production Line

Machinery, expertise and support for  
stainless steel wire production

Advice

Engineering

Design work

Machinery delivery

Commissioning

Training



*specialized for  
powerful solutions*



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Maschinenbau GmbH  
Machines for the wire industry

## Quality and efficiency for the stainless steel industry

Schmidt Maschinenbau GmbH offers outstanding performance through excellence in design, manufacturing and service, as well as by having a dedicated team of professionals ready to meet our customer's requirements with a high degree of flexibility.

Our range of services for the stainless steel wire industry comprises of:

- Consulting
- Design
  - Machine manufacturing
  - Commissioning
  - Training
  - Maintenance
  - Repair
  - Reconditioning



Top quality stainless steel wire

## Range of stainless steel wire products

**Ultra fine wire drawing machine 30-2/38** with integrated spooler **S 130**. Available to be equipped with tailstock spindle spooler P 125-250 or integrated traversing spooler S 130.

Wire material :           Stainless steel ( 304, 316 )  
Inlet dia. :                0,16 – 0,28 mm ( 28 to 34 AWG )  
Range of finish wire :   0,013 – 0,025 mm ( 51 to 56 AWG )  
Max. no. of dies :        38 ( 21 x 13 % CR + 16 x 9.1 % CR + 1 x 9.1 )  
Speed :                    25 m/s – 40 m/s ( 5,000 to 7,800 fpm )  
Tensile strength :        1,500 to 3,000 MPa



**Fine wire drawing machine 20-2/11** with integrated traversing spooler **S 160 Trav**

Wire material :           Stainless steel ( 304, 316 )  
Max. inlet dia. :         0,2 mm ( 0.0079" )  
Range of finish dia. :   0,022 – 0,14 mm ( 0.00087" to 0.0056" )  
Max. no. of dies :        11 ( 10 x 9.9 % CR + 1x 5 to 9.9 % CR )  
Speed :                    max. 20 m/s ( 4,000 fpm )  
Tensile strength :        1,500 to 3,000 MPa



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**Fine wire drawing machine 30-3** with integrated traversing spooler **S 130/Trav**. Available to be equipped with tailstock spindle spooler P 76–250 or automatic spool changer A 125–250.

Wire material : Stainless steel ( 304, 316 )  
Inlet dia. : Max. 0,6 mm ( 0.024" )  
Range of finish wire : 0,025 – 0.075 mm ( 0.001" to 0.003" )  
Max. no. of dies : 25 ( 13 % CR )  
Speed : 20 m/s – 30 m/s ( 4,000 to 6,000 fpm )  
Tensile strength : 1,500 to 3,000 MPa



**Wire drawing machine 100-8**  
with automatic spooler **A 160 - 250**.

Wire material : Stainless steel ( 304, 316 )  
Max. inlet dia. : 0,8 mm ( 0.0315" )  
Range of finish dia. : 0,08 – 0.15 mm ( 0.00315" to 0.0059" )  
Max. no. of dies : 30 ( 19 x 13.8 % CR + 11x 11.5 % CR )  
Speed : max. 30 m/s ( 6,000 fpm )  
Tensile strength : 1,500 to 3,000 MPa



**Wire drawing machine 150-40 with automatic spooler A 160-355**. Available to be equipped with different tailstock spindle spoolers.

Wire material : Stainless steel ( 304, 316 )  
Inlet dia. : Max. 2,0 mm ( 0.079" )  
Range of finish wire : 0,2 to 0,8 mm ( 0.008" to 0.031" )  
Max. no. of dies : 20 ( 15.3 % CR ; final die 15.3 % CR or 14 % CR or 9 % )  
Speed : 20 – 30 m/s ( 4,000 to 6,000 fpm )  
Tensile strength : 1,500 to 3,000 MPa



**Wire drawing machine 150-40 HD with automatic spooler A 160 – 250** ( also available A 160 – 355 )

Max. inlet dia. : 2,4 mm ( 0.095" )  
Range of finish dia. : 0,2 – 1,02 mm ( 0.00787" to 0.04" )  
Max. no. of dies : 20 ( 19 x 13.8 % CR + 1x 12.2 % CR )  
Speed : max. 16 m/s ( 3,200 fpm )  
Tensile strength : 1,500 to 3,000 MPa

## Annealing pay off and take ups

### Take up with calibration die : ZSp-Trav

Wire material : Stainless steel, NiCr-alloys  
Range of wire : 0,5 – 2,0 mm ( 0.02" to 0.08" )  
Up to 2 drawing dies for diameter calibration  
optional ultrasonic wire Cleaner  
Tension control: electronically adjusted dancer  
Spooling: Traversing spool  
Spool size : up to 760 mm (30") diameter  
Speed : 35 m/min ( 115 fpm )



### Series SD 20 S/M/L

Wire material : Stainless steel  
Range of wire : 0,1 – 0,35 mm ( 0.004" to 0.051" )  
Tension control: electronically adjusted dancer  
Spooling: Traversing spool  
Speed : 120 m/min ( 400 fpm )



### Series SM33

Wire material : Stainless steel  
Range of wire : 0,03 – 0,3 mm ( 0.0012" to 0.012" )  
Tension control: Torque control  
Spooling: Traversing spool  
Speed : 60 – 100 m/min ( 200 to 330 fpm )



### Series SM36

Wire material : Stainless steel  
Range of wire : 0,01 – 0,08 mm ( 0.0004" to 0.0032" )  
Tension control: Torque control  
Spooling: Traversing spool  
Speed : 10 – 300 m/min ( 32 to 1,000 fpm )



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