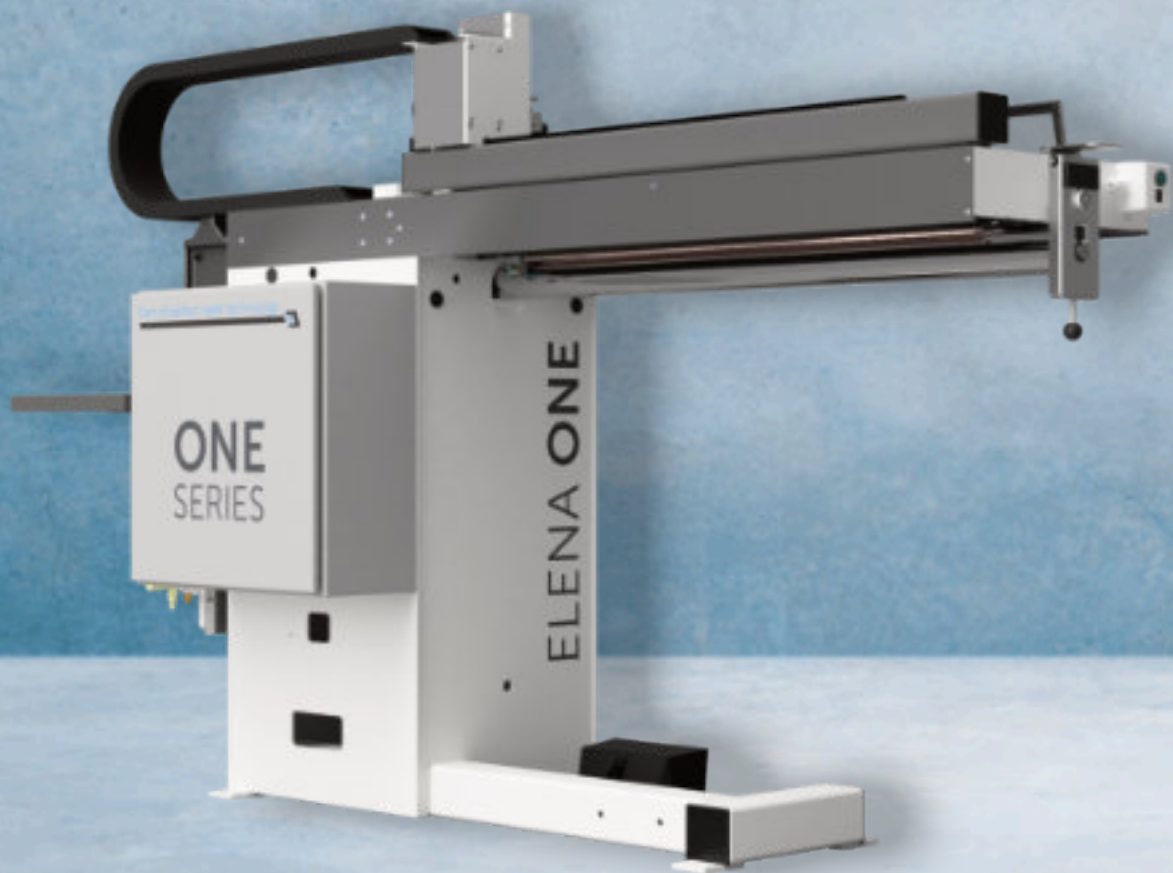


ONE  
SERIES

# ELENA

PRODUKTKATALOG



SCHNELLDORFER  
MASCHINENBAU



# CONTENTS

## ONE SERIE

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## ELENA ONE

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## ONE SERIES

### The most economical way to weld

**“Maximize efficiency, minimize costs:  
Welding more intelligently with Generation ONE.”**

ELENA ONE longitudinal seam welding machines are the result of 25 years of passionate dedication and expertise in the construction of longitudinal seam welding machines at Schnelldorfer Maschinenbau.

Each unit is the product of a tireless commitment to perfection and the highest quality. By merging traditional craftsmanship with state-of-the-art, cost-efficient manufacturing methods, ELENA ONE was created to meet the needs of a diverse clientele.

Equipped with high-quality, industrial-grade technology, these machines are designed not just to work, but to shine. Designed to provide years of reliable and efficient service, they deliver what they promise.



## Discover the future with our Generation ONE



Cost efficiency

+ 47%

Best performance and results with significantly lower investment costs



Time Saving

+89%

More efficient use of production time thanks to easy handling



Visualization

+ 50%

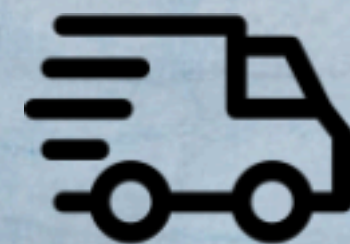
Simple operation through visualization of the elementary operating options



Availability

+97%

Reduction of non-productive and downtime due to high-quality processing of the machines



Delivery time

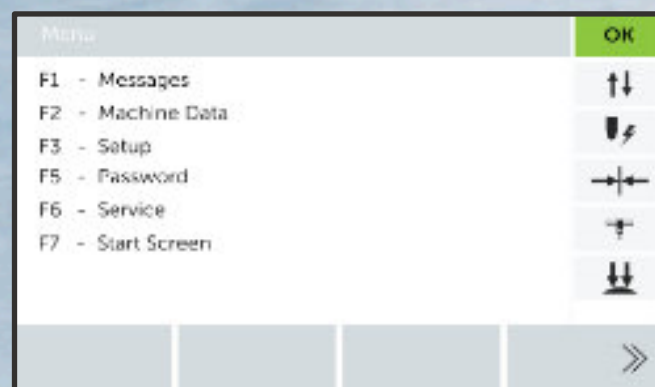
-40%

Shorter delivery time through consistent implementation of standardization process



# CONTROL UNIT

ONE SERIES



**Start menu**

- Easy to understand navigation
- Quick access to all functions
- Efficient operation without a long training period



**SetUp of the welding parameters**

- User-friendly functions
- Clear and understandable structure
- Simple operation



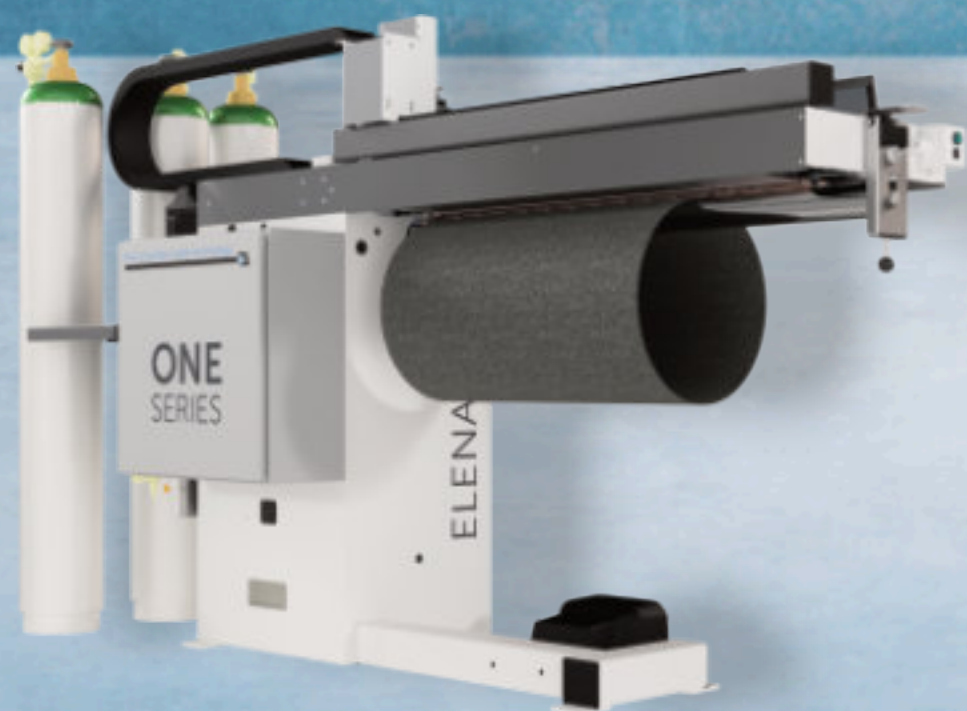
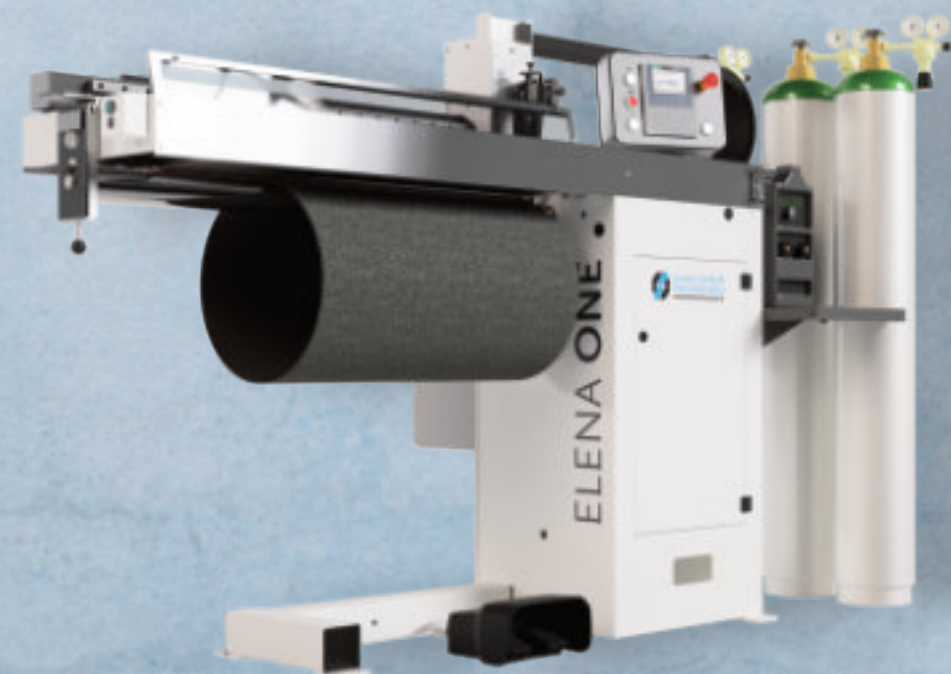
**Tracking the welding process**

- Detailed tracking of the welding process on the screen
- Simple and clear monitoring
- Clear display of welding data



# ELENA ONE

ONE SERIES - ELENA





# OVERVIEW



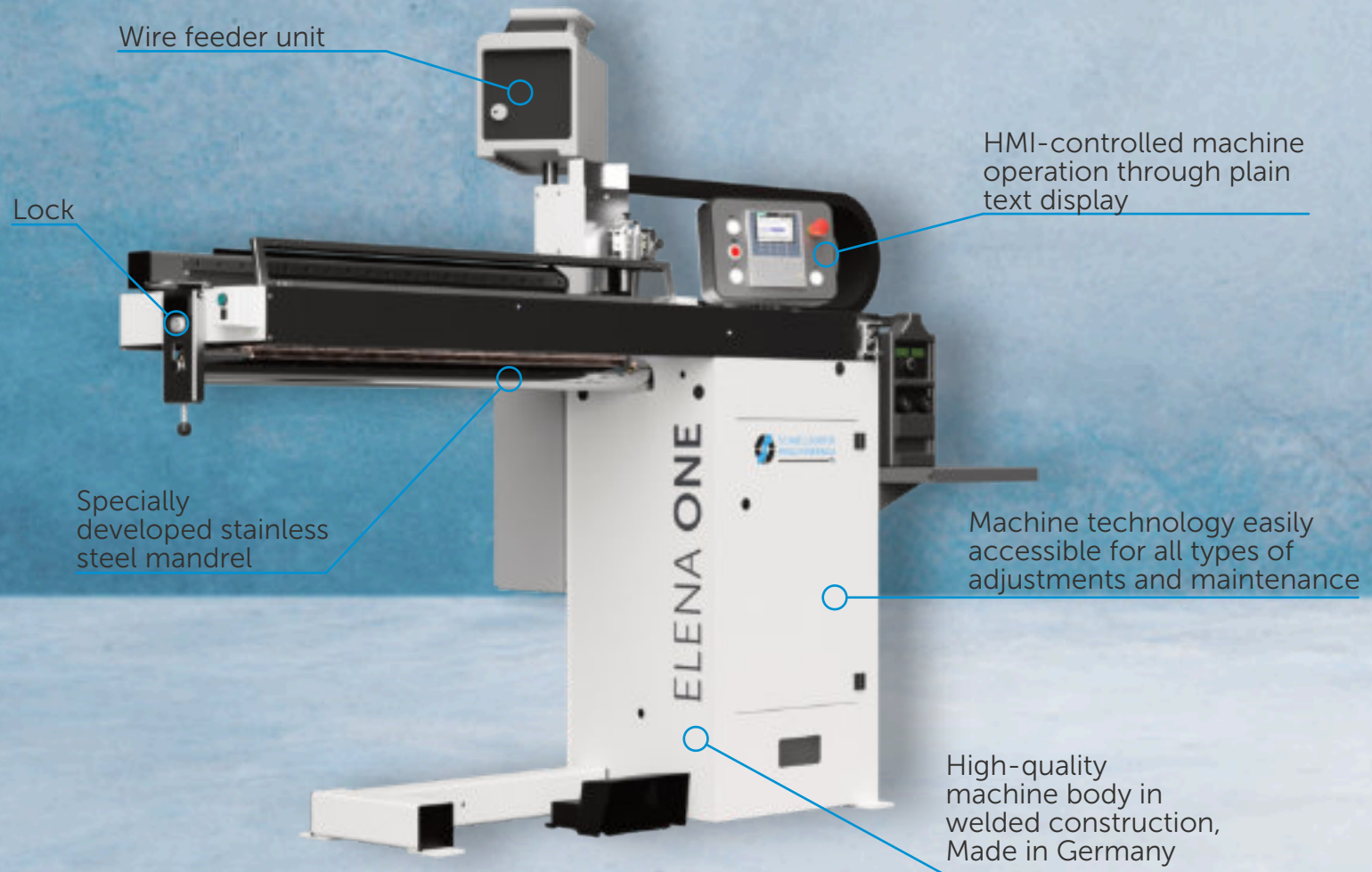
| ELENA ONE               | 600                                                        | 1100 | 1300 |
|-------------------------|------------------------------------------------------------|------|------|
| Welding length max.     | 600                                                        | 1100 | 1300 |
| Pipe Ø minimum (inside) | 60                                                         | 80   | 100  |
| Pipe Ø maximum          | 980 mm                                                     |      |      |
| Material thickness      | 0,3 mm - 2,0 mm                                            |      |      |
| Material                | Stainless Steel, Steel, Galvanized Steel, Titanium, Copper |      |      |

## ONE SERIES - ELENA

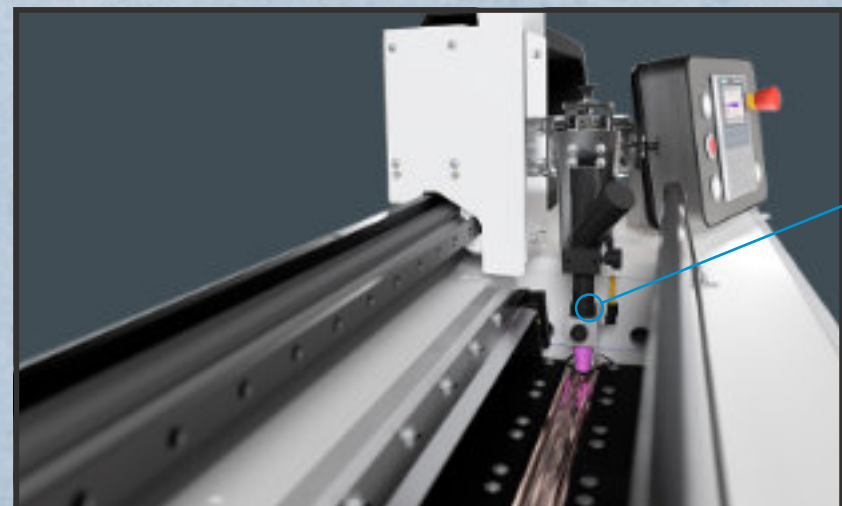
|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| Welding process                               | TIG / GTAW                                   |
| Shielding gas                                 | Weld gas, backing gas, carrier gas           |
| Welding speed                                 | 30 cm/min - 550 cm/min                       |
| Mandrel-lock                                  | manual, position monitored                   |
| Welding support rail and clamping jaw inserts | Wear-resistant copper alloy (CuCrZr)         |
| Clamping system                               | Pneumatic with pretensioning step            |
| Arc length                                    | Consistent over the entire weld length       |
| Cooling circuit                               | Welding support rail (mandrel), torch        |
| Control                                       | Siemens S7-1200                              |
| Control unit                                  | SIEMENS Panel KP 400, 4", Colour display     |
| Engine                                        | Schneider Electric LEXIUM (Stepper motor)    |
| Welding power source interface                | 2/4 cycle interface                          |
| Electrical connected load                     | 400/230 Volt / 3 / N / PE; 50/60 Hz; TN grid |
| Compressed air connected load                 | 6 bar, dry, filtered                         |
| Ambient temperature range                     | +10°C - 35°C                                 |



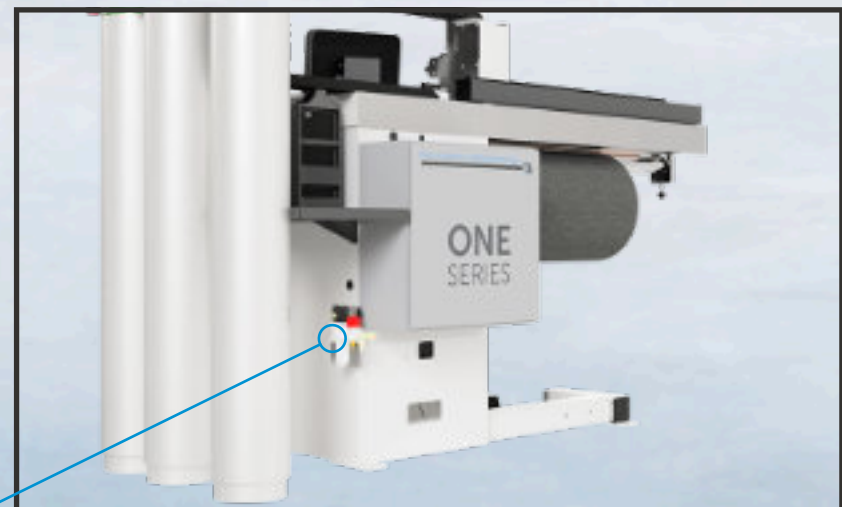
# OVERVIEW



## ONE SERIES - ELENA



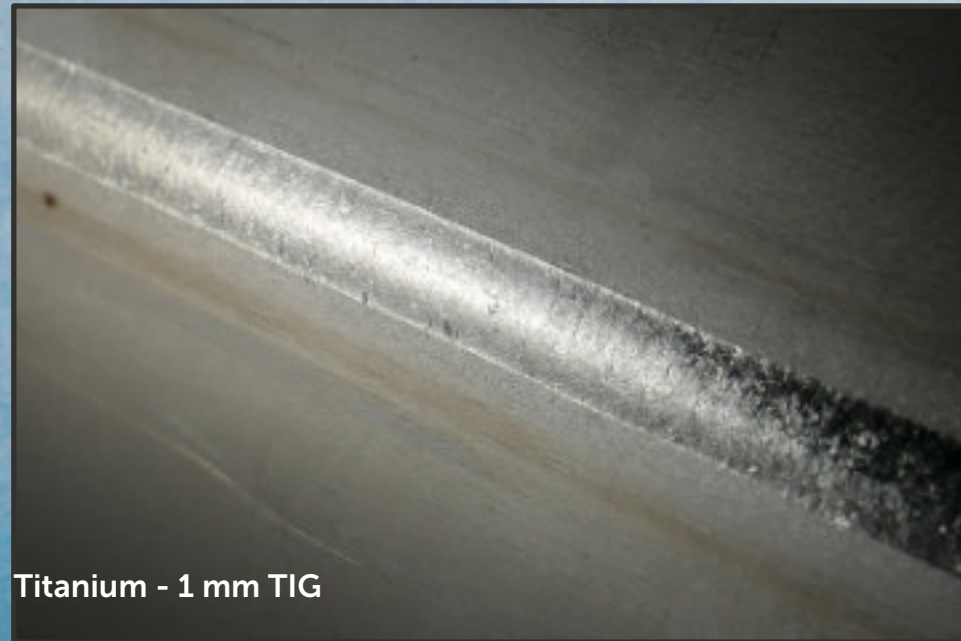
Gashahn



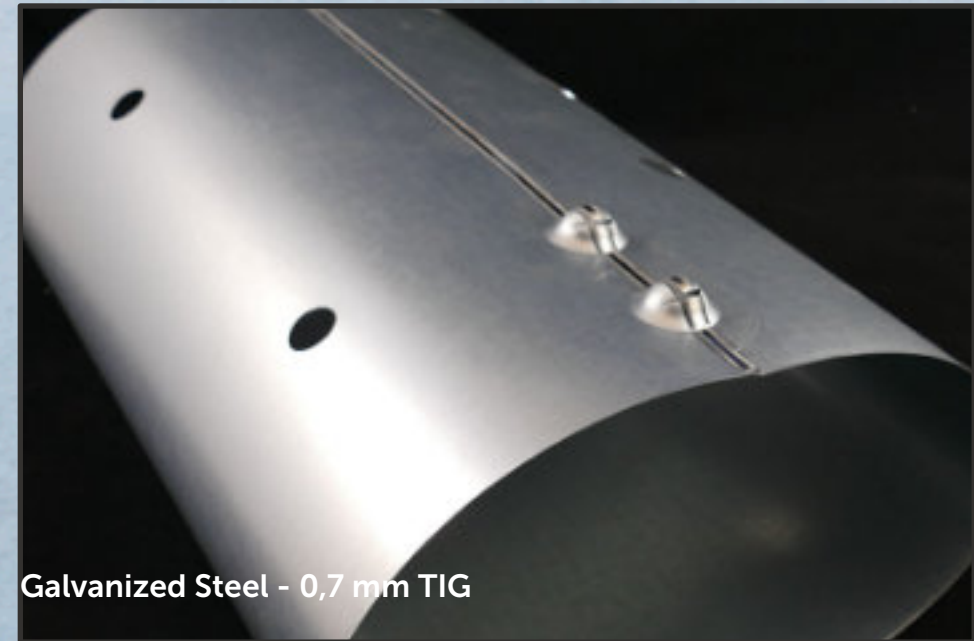


# WELDINGS

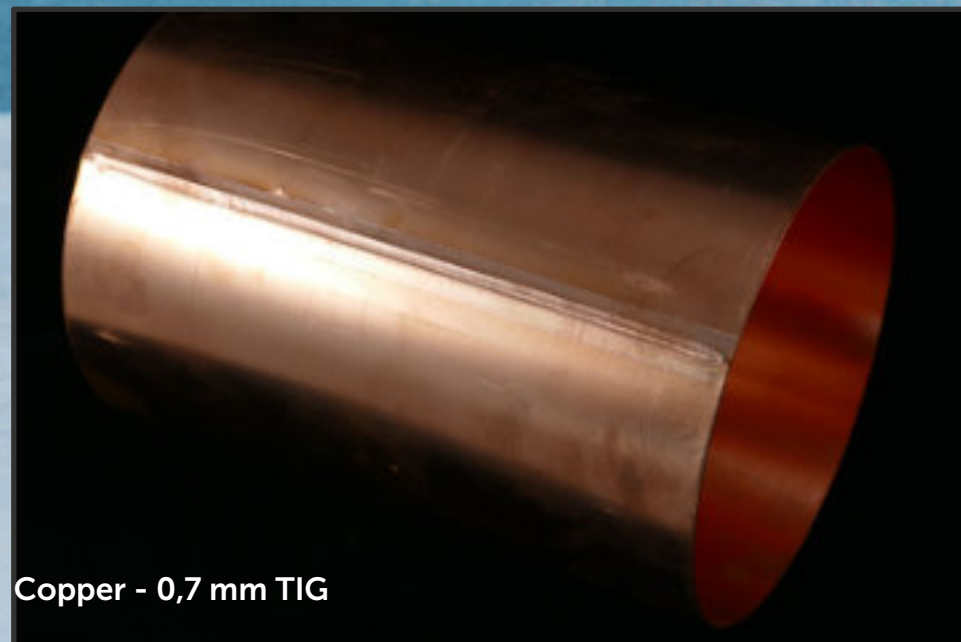
ONE SERIES - ELENA



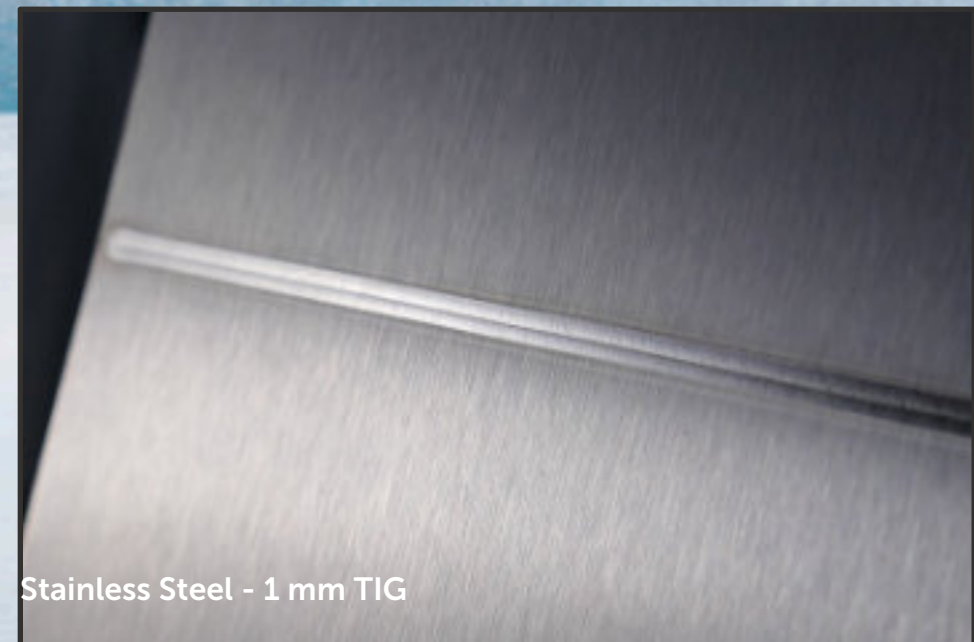
Titanium - 1 mm TIG



Galvanized Steel - 0,7 mm TIG



Copper - 0,7 mm TIG



Stainless Steel - 1 mm TIG



# ITEMS

## MACHINES

### ELENA ONE

| Item number | Type           | Info                |
|-------------|----------------|---------------------|
| 1037673     | ELENA ONE 600  | 600 mm Weld length  |
| 1031678     | ELENA ONE 1100 | 1100 mm Weld length |
| 1037674     | ELENA ONE 1300 | 1300 mm Weld length |

## WELDING OPTIONS

### TIG DC

| Item number | Type                                                   | Info       |
|-------------|--------------------------------------------------------|------------|
| 1032454     | FRONIUS TT 2200 Job DC, TIG                            | Max. 220 A |
| 1044539     | LORCH T 180 DC ControlPro, TIG Inverter welding system | Max. 180 A |
| 1044541     | LORCH T 220 DC ControlPro, TIG                         | Max. 220 A |

### TIG AC/DC

| Item number | Type                              | Info       |
|-------------|-----------------------------------|------------|
| 1044540     | LORCH T 180 AC/DC ControlPro, TIG | Max. 180 A |
| 1044542     | LORCH T 220 AC/DC ControlPro, TIG | Max. 220 A |

### TORCH

| Item number  | Type                                  | Info                                      |
|--------------|---------------------------------------|-------------------------------------------|
| 1040144      | ABITIG MT 300 with Central connection | FRONIUS BHC-12                            |
| 10.4700.0001 | Starter KIT, TIG - ABITIG MT 300 W    | Replacement equipment set for TIG torches |

## ONE SERIES - ELENA

### WIRE FEEDER UNIT

| Item number | Type                       | Info                                    |
|-------------|----------------------------|-----------------------------------------|
| 1040227     | FRONIUS KD 4000 D-11       | For ELENA ONE                           |
| 1040347     | Wire feed unit-Preperation | (device holder, cold wire nozzle, core) |

### INTEGRATION

| Item number | Type                                             | Info          |
|-------------|--------------------------------------------------|---------------|
| 1044132     | Integration of welding technology to be provided | For ELENA ONE |

## SOFTWARE OPTIONS

### SOFTWARE EXTENSIONS

| Item number | Type                                                             | Info               |
|-------------|------------------------------------------------------------------|--------------------|
| 1051755     | Software extension variable starting point and welding direction | For ELENA ONE      |
| 1053099     | Language pack 1                                                  | DE, EN, ES, PT, IT |
| 1053100     | Language pack 2                                                  | DE, EN, CZ, RU, PL |

## ADDITIONAL OPTIONS

### COOLING UNIT

| Item number  | Type                                | Info                                             |
|--------------|-------------------------------------|--------------------------------------------------|
| 1017082      | Air-water cooling unit HYFRA LWK 17 | Max. Cooling capacity 2000 W                     |
| 1036824      | Recooler unit HYFRA eCHILLY 1       | Max. Cooling capacity 1025W (32°C ambient temp.) |
| 21.4000.0003 | Cooling water re cooler SMC HRS     | Max. Cooling capacity 1100/1300 W                |



# ITEMS

## BACKING BAR

| Item number | Type                                                                        | Info               |
|-------------|-----------------------------------------------------------------------------|--------------------|
| 1040348     | For thin sheet metal with inert gas bore<br>t = 0.3 - 0.8 mm made of CuCrZr | For ELENA ONE 600  |
| 1040973     | Made of wear-resistant copper alloy with<br>inert gas hole in the groove    | For ELENA ONE 600  |
| 1040976     | Made of high-alloy steel (VA)<br>Without inert gas hole                     | For ELENA ONE 600  |
| 1045260     | Made of wear-resistant copper alloy<br>without protective gas hole          | For ELENA ONE 600  |
|             |                                                                             |                    |
| 1040349     | For thin sheet metal with inert gas bore<br>t = 0.3 - 0.8 mm made of CuCrZr | For ELENA ONE 1100 |
| 1040974     | Made of wear-resistant copper alloy with<br>inert gas hole in the groove    | For ELENA ONE 1100 |
| 1040978     | Made of high-alloy steel (VA)<br>Without inert gas hole                     | For ELENA ONE 1100 |
| 1045261     | Made of wear-resistant copper alloy without<br>protective gas hole          | For ELENA ONE 1100 |
|             |                                                                             |                    |
| 1040350     | For thin sheet metal with inert gas bore<br>t = 0.3 - 0.8 mm made of CuCrZr | For ELENA ONE 1300 |
| 1040975     | Made of wear-resistant copper alloy with<br>inert gas hole in the groove    | For ELENA ONE 1300 |
| 1040979     | Made of high-alloy steel (VA)<br>Without inert gas hole                     | For ELENA ONE 1300 |
| 1045262     | Made of wear-resistant copper alloy without<br>protective gas hole          | For ELENA ONE 1300 |

## CLAMPING FINGERS

| Item number | Type                               | Info          |
|-------------|------------------------------------|---------------|
| 1053293     | Clamping finger, 3mm/14mm 38/06/08 | For ELENA ONE |

## ONE SERIES - ELENA

## PACKAGING



### PACKAGING

| Item number | Type                                    | Info               |
|-------------|-----------------------------------------|--------------------|
| 1053098     | Transport pallet for land transport     | For ELENA ONE      |
| 1039814     | Wooden crate for land and air transport | For ELENA ONE 600  |
| 1039815     | Wooden crate for sea transport          | For ELENA ONE 600  |
| 1039816     | Wooden crate for land and air transport | For ELENA ONE 1100 |
| 1039817     | Wooden crate for sea transport          | For ELENA ONE 1100 |
| 1039818     | Wooden crate for land and air transport | For ELENA ONE 1300 |
| 1039819     | Wooden crate for sea transport          | For ELENA ONE 1300 |

## DELIVERY CONDITIONS



### DELIVERY

| Item number  | Type                          | Info        |
|--------------|-------------------------------|-------------|
| 10.8200.0001 | Delivery FCA (Incoterms 2020) | Schnelldorf |
| 1017551      | Delivery DAP (Incoterms 2020) | Germany     |
| 21.8200.0006 | Delivery DAP (Incoterms 2020) | Europe      |



# ITEMS

ONE SERIES - ELENA

SERVICE

TRAINING

| Item number  | Type                                     | Info                                         |
|--------------|------------------------------------------|----------------------------------------------|
| 21.8100.0001 | StartUp & Training package up to 400 Km  | 2 Days on site  <br>1 Day travelling time    |
| 21.8100.0002 | StartUp & Training package up to 2000 Km | 2 Day one site  <br>1,5 Days travelling time |
| 21.8100.0003 | StartUp & Training package up to 2000 Km | 2 Days on site  <br>2 Days traveling time    |
| 21.8100.0004 | Final acceptance package up to 400 km    | 3 Days on site  <br>1 Day travelling time    |
| 21.8100.0005 | Final acceptance package up to 2000 Km   | 3 Days on site  <br>1,5 Days travelling time |
| 21.8100.0006 | Final acceptance package up to 2000 Km   | 3 Days on site  <br>2 Days travelling time   |

PRECAUTION

| Item number  | Type                            | Info   |
|--------------|---------------------------------|--------|
| 21.8100.0001 | Warranty extension by 12 months | Europe |

SPARE PARTS

| Item number | Type                              | Info          |
|-------------|-----------------------------------|---------------|
| 1048901     | Spare parts package (new machine) | For ELENA ONE |

## NOTES

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Schnelldorfer Maschinenbau GmbH  
Kappelweg 6 | 91625 Schnelldorf | Deutschland  
info@schnelldorfer-maschinenbau.de | +49 (0) 7950 9889 - 0



<https://schnelldorfer-maschinenbau.de/en/>

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Schnelldorfer Maschinenbau GmbH | Kappelweg 6 | 91625 Schnelldorf  
Commercial register: HRB 681 | Register court: Ansbach

Represented by: Martin Feuchter, Klaus Schüle



**ONE  
SERIES**

