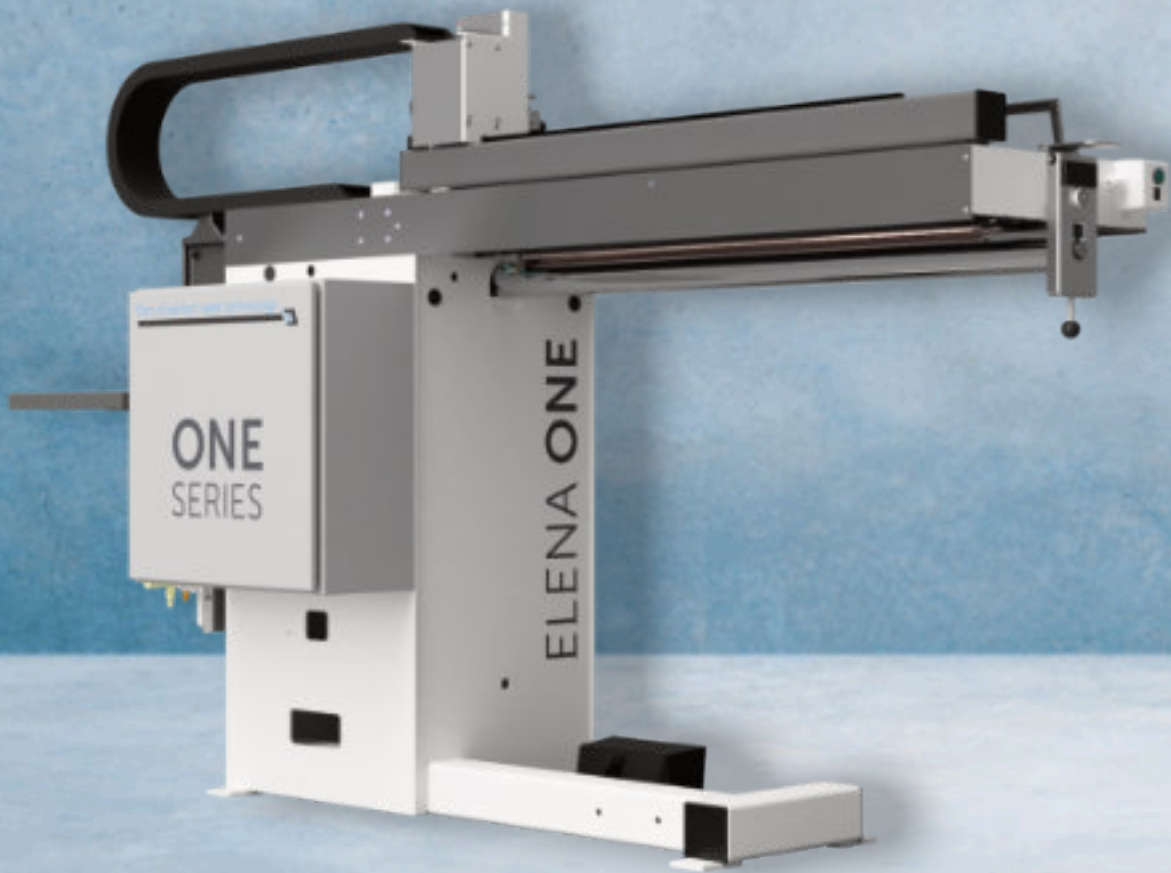


ONE  
SERIES

# ELENA

PRODUKTKATALOG



SCHNELLDORFER  
MASCHINENBAU



# CONTENTS

ONE SERIES

## ONE SERIE

- Contents 1 - 2
- Advantages 3 - 4
- One-series control unit 5 - 6

## ELENA ONE

- ELENA ONE 7 - 8
- Overview 9 - 12
- Weldings 13 - 14
- Items 15 - 19
- Notes 20

## 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



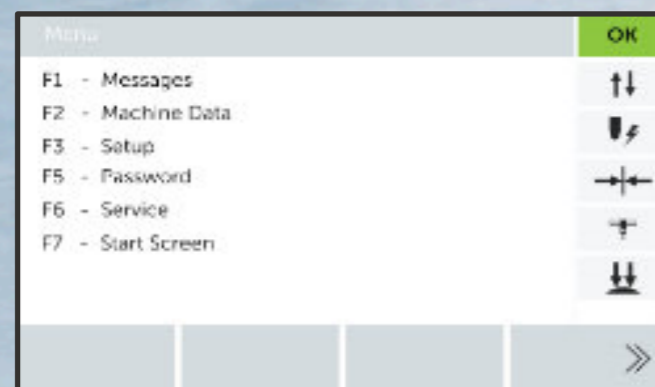
Delivery time

-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

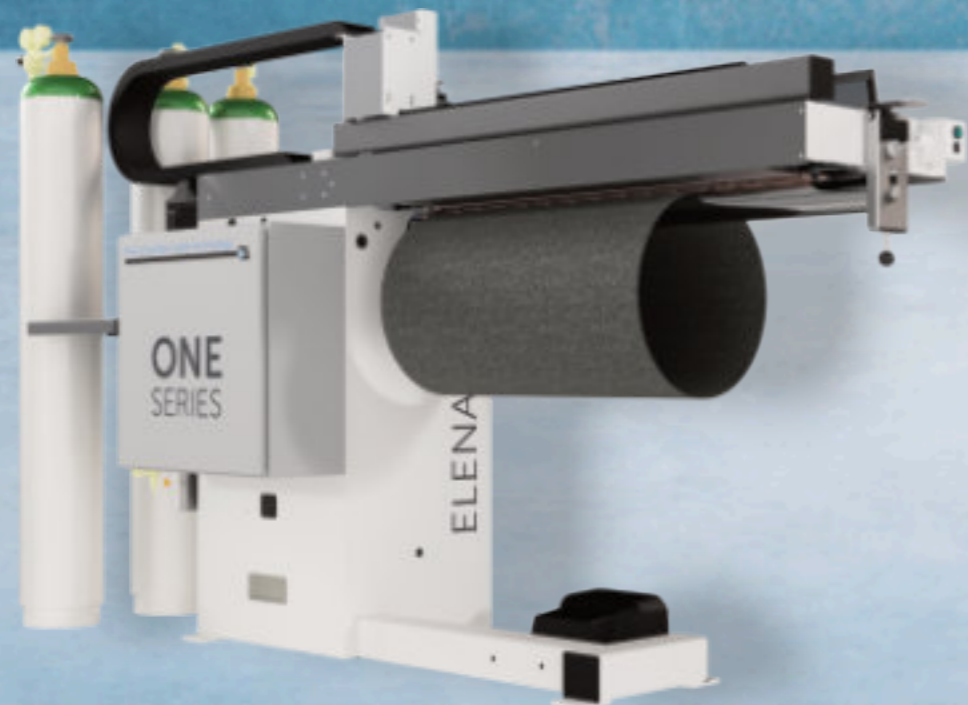
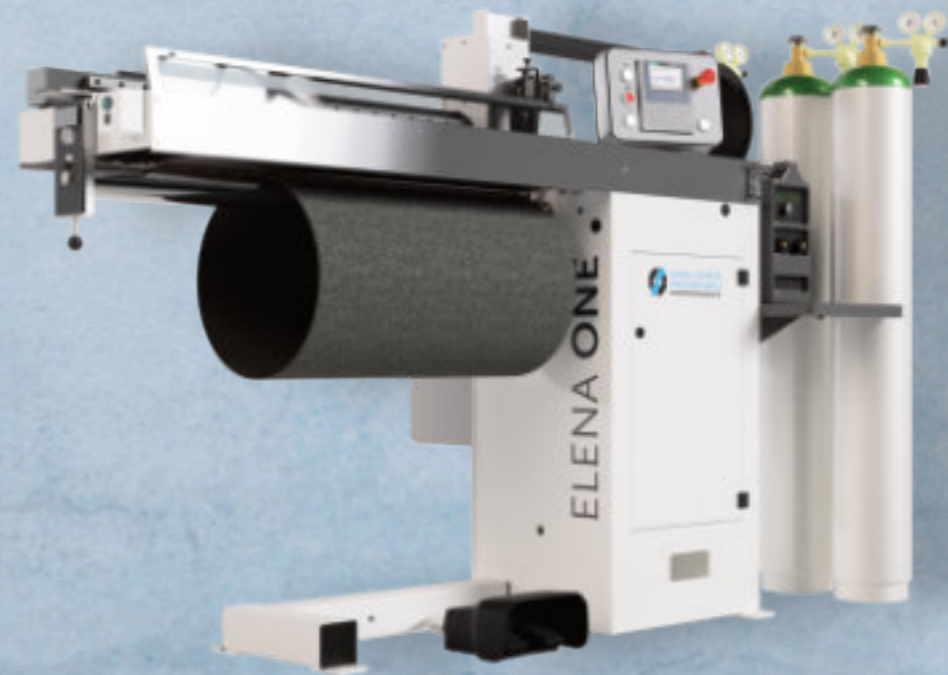


## Tracking the welding process

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

# ELENA ONE

ONE SERIES - ELENA



# OVERVIEW

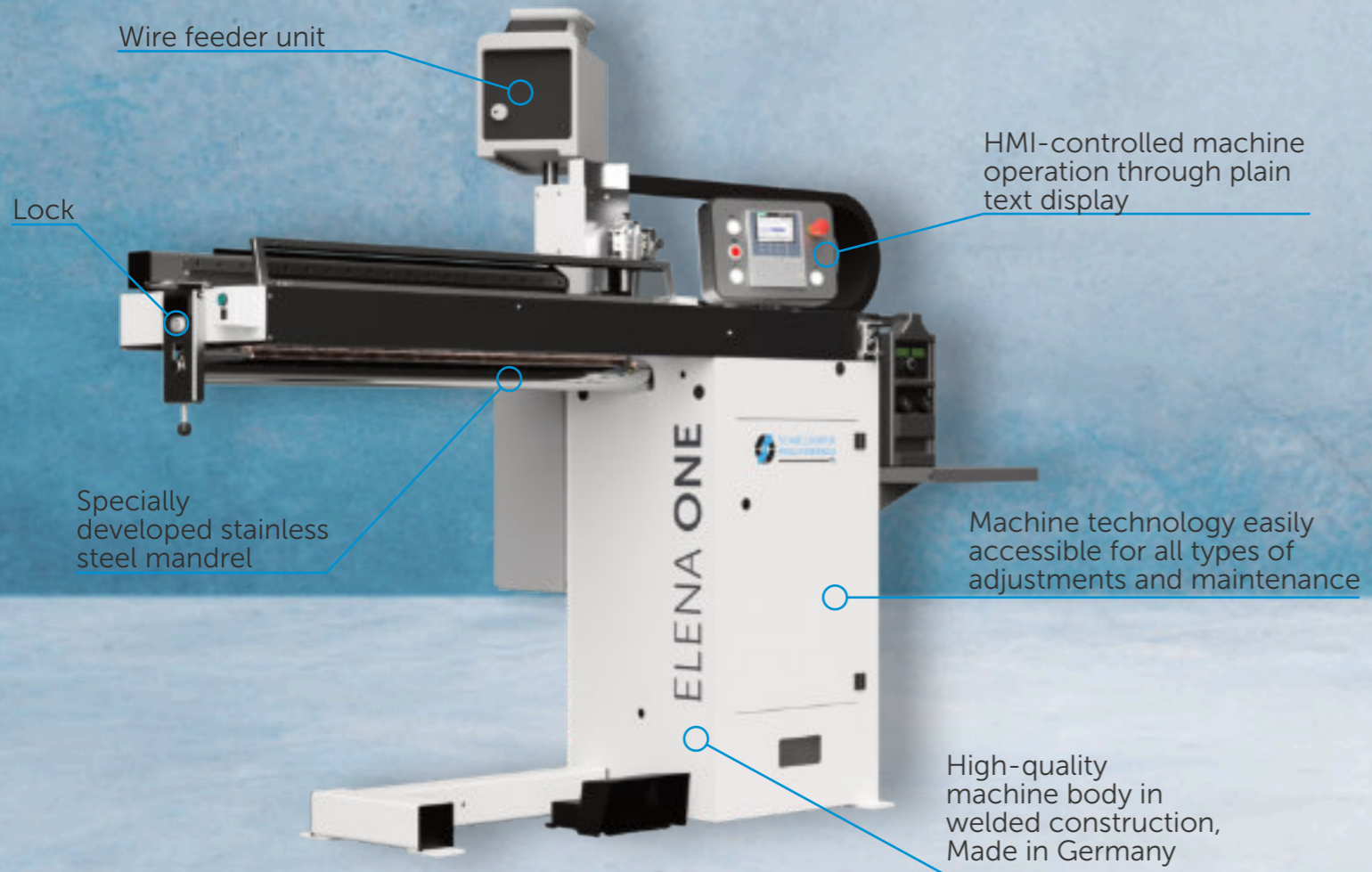
## ONE SERIES - ELENA



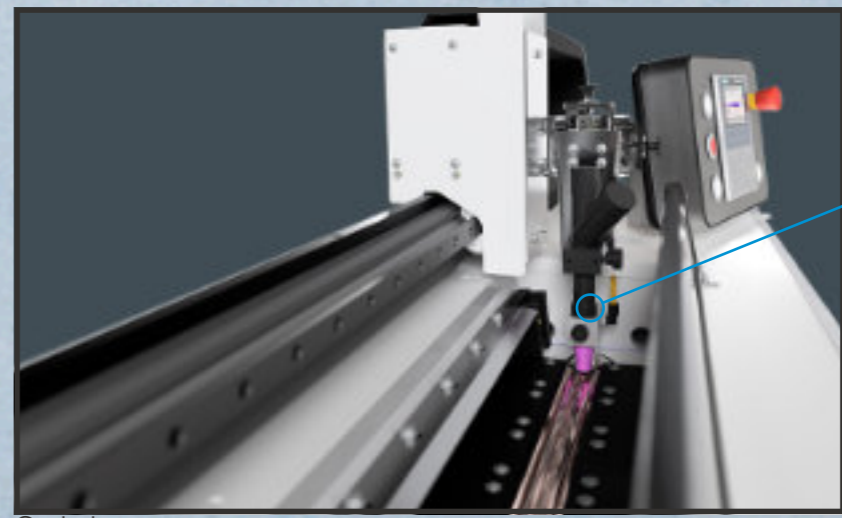
ELENA ONE	600	1100	1300
Welding length max.	600	1100	1300
Pipe Ø minimum (inside)	60	80	100
Pipe Ø maximum	980 mm		
Material thickness	0,3 mm - 2,0 mm		
Material	Stainless Steel, Steel, Galvanized Steel, Titanium, Copper		

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

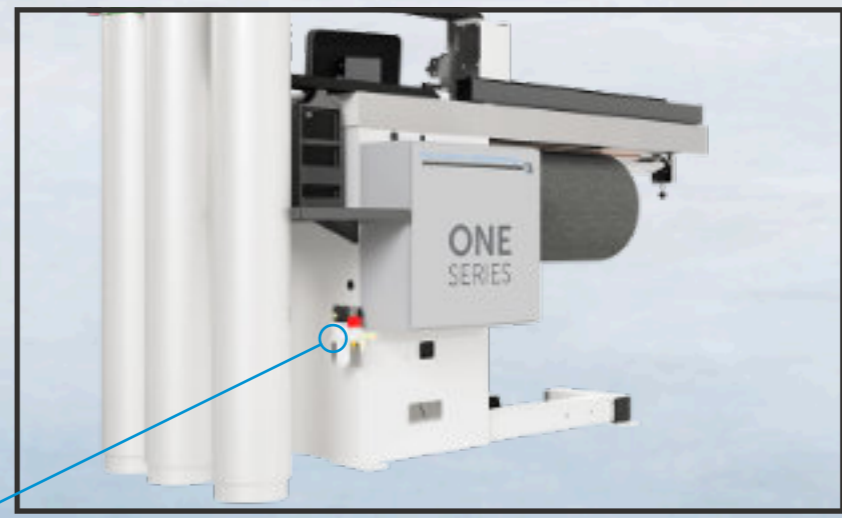
# OVERVIEW



## ONE SERIES - ELENA

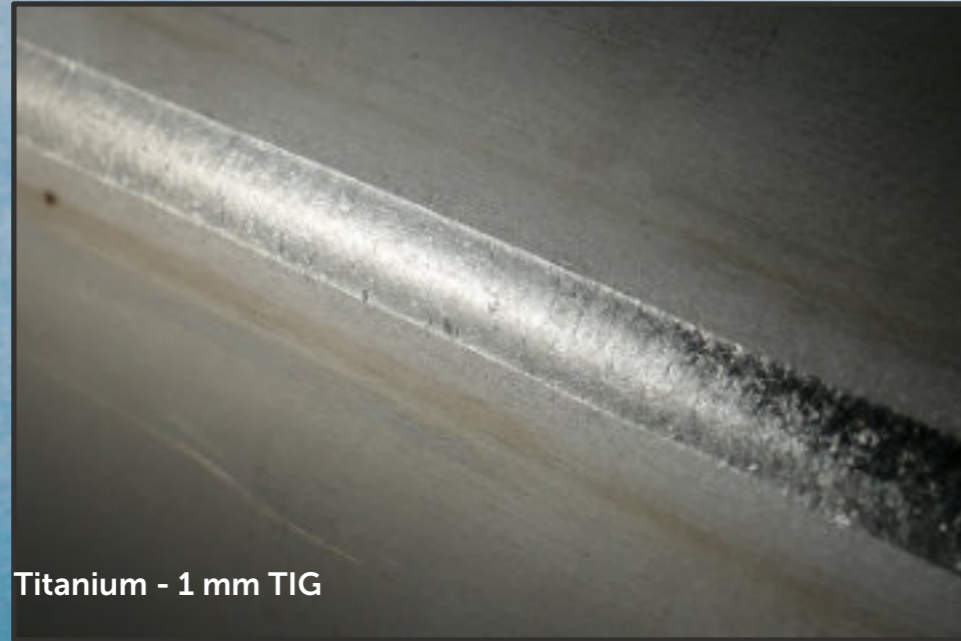


Gashahn

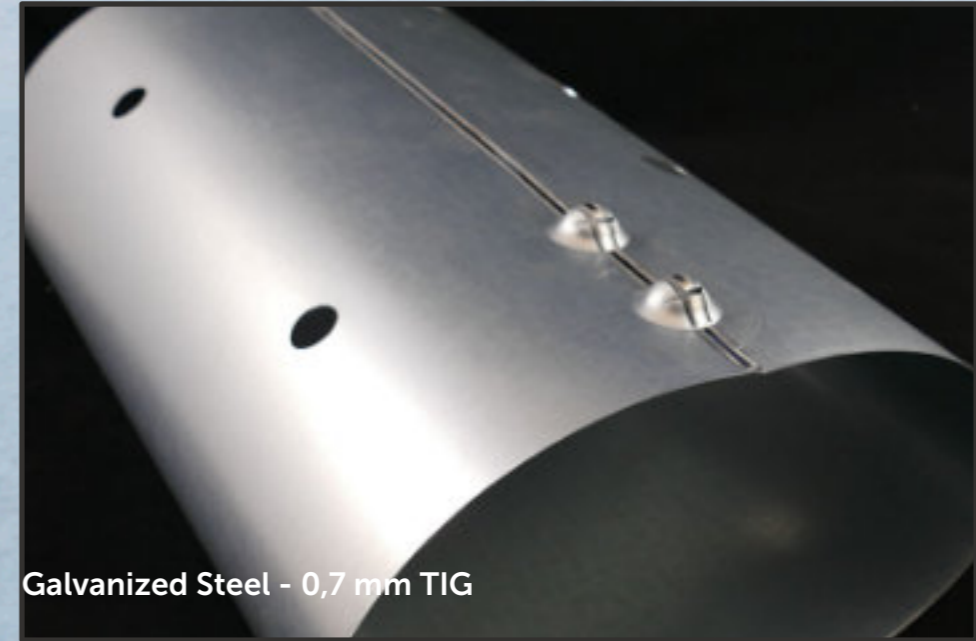


# WELDINGS

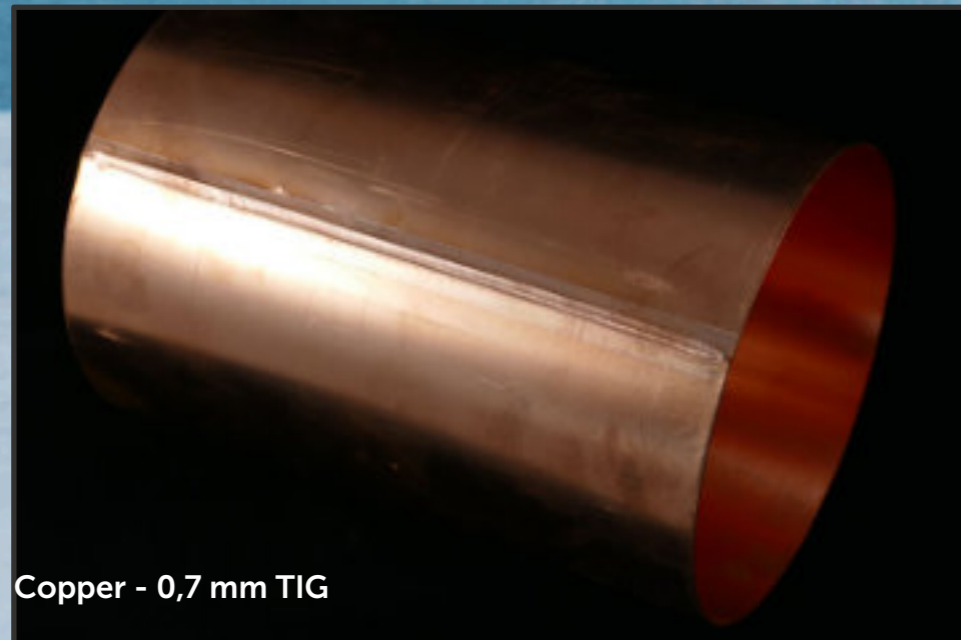
ONE SERIES - ELENA



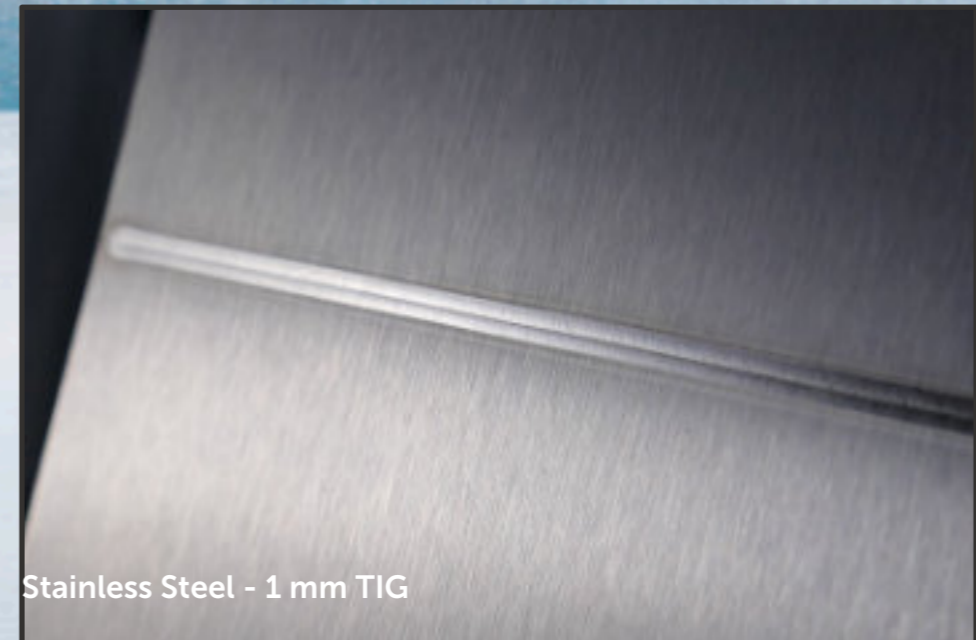
Titanium - 1 mm TIG



Galvanized Steel - 0,7 mm TIG



Copper - 0,7 mm TIG



Stainless Steel - 1 mm TIG



# ITEMS

## ONE SERIES - ELENA

### 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

### 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

## ONE SERIES - ELENA

### BACKING BAR

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

### CLAMPING FINGERS

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

### 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



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



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

**Copyright:**

© Schnelldorfer Maschinenbau GmbH  
This brochure and its contents, including text, images, and graphics, are the property of Schnelldorfer Maschinenbau GmbH and are protected by copyright laws. Unauthorized reproduction, distribution, or modification of any material contained herein is strictly prohibited without prior written permission.

**Imprint**

Information according to § 5 DDG  
Schnelldorfer Maschinenbau GmbH | Kappelweg 6 | 91625 Schnelldorf  
Commercial register: HRB 681 | Register court: Ansbach

Represented by: Martin Feuchter, Klaus Schüle