



The smartest
way to weld

X
SERIES

Product catalogue 2022

Longitudinal seam welding machines

LINEARWELD X Series



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Legal notice

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

Product catalogue 2022 - Longitudinal seam welding machines - LINEARWELD X-Series V1.0

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LINEARWELD **XP**




Aerospace- and Bellow industry
Automotive industry
Chimney systems

	00,15 mm - 00,80 mm
	250 mm - 1000 mm
	15 mm - 1050 mm*



LINEARWELD **XD**
LINEARWELD **X**

Aerospace- and Bellow industry
Automotive industry
Tank and Equipment manufacturing,
Food technology and kitchen makers,
HAVC industry
Vessel construction
Chimney systems

	00,20 mm - 03,00 mm
	200 mm - 1600 mm
	25 mm - 1050 mm*

LINEARWELD **XL** EXTL
LINEARWELD **XL** INEX

Expansionjoint industry
Automotive industry
Tank and Equipment manufacturing,
Food technology
HAVC Industry
Construction of machines and housings
Vessel construction
Ducts

	00,50 mm - 15,00 mm
	600 mm - 4100 mm
	80 mm - 1100 mm*



LINEARWELD **XLS** EXTL
LINEARWELD **XLS** INEX

Expansionjoint industry
Tank and Equipment manufacturing,
Food technology
HAVC Industry
Construction of machines and housings
Vessel construction
Ducts

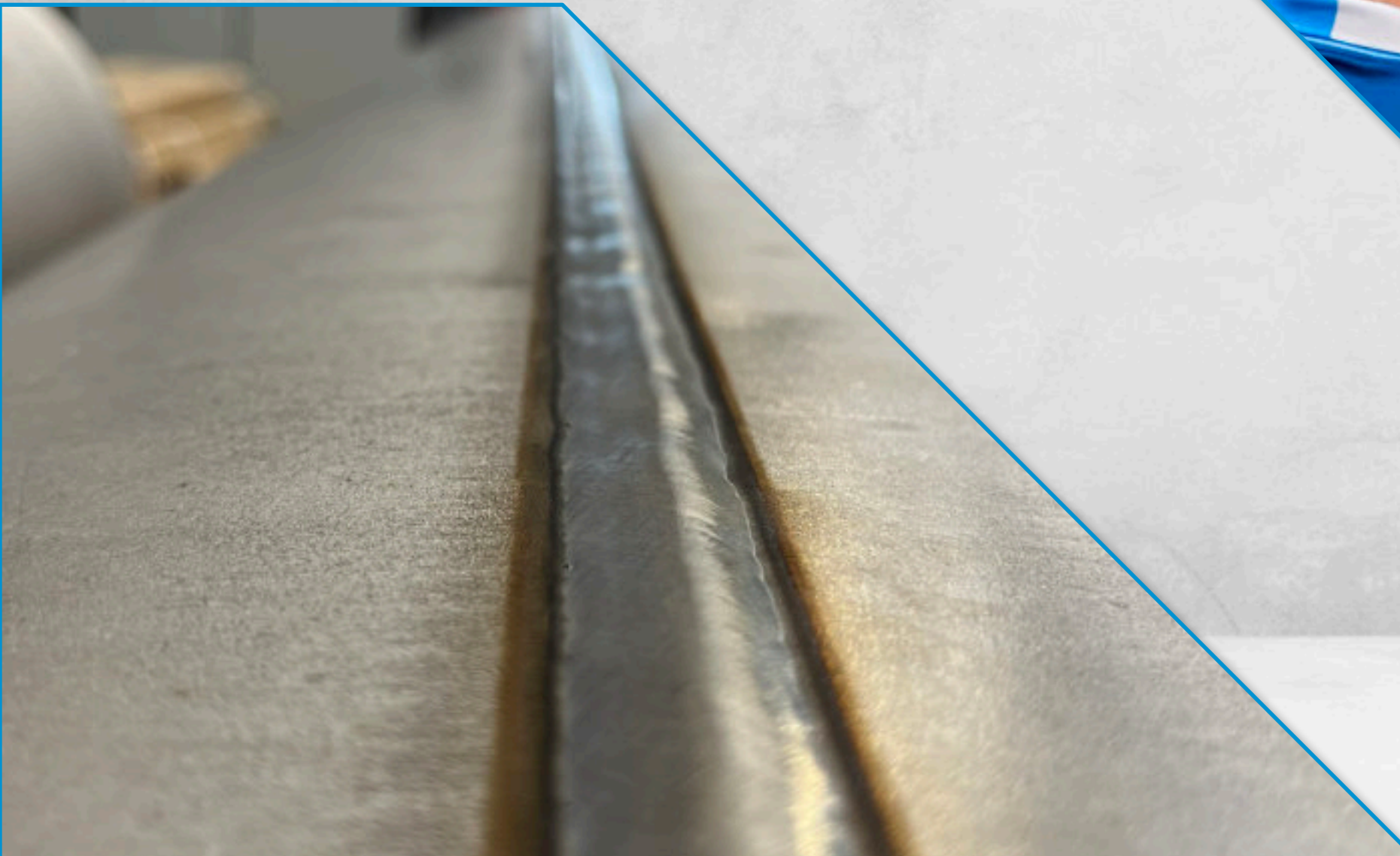
	00,50 mm - 15,00 mm
	1600 mm - 4100 mm
	145 mm - 5190 mm

* With standard machine body, bigger diameters possible with hightening elements (option)

"Outstanding welding results"

"It is unique how quickly our employees learned how to operate the machine. After less than two hours, our operators achieved outstanding welding results on their own. We had the impression that welding was now child's play! With the new **LINEARWELD X-Series** and the **neXt control system**, we were able to compensate very well for our lack of experienced welders."

Ing. Tomàs Hulka
CEO
MAQFORT s.r.o.



Revolutionizes welding automation

Now, there is a brand new machine control which offers you all possibilities of the 21st century and makes you ready for **industry 4.0**

The **neXt** machine control is part of our seam welding machines made in Germany. Intelligent I/O sensor technology, state of the art machine plc control, smart and intuitive Human Machine Interface and full IOT connectivity takes your production to the neXt level!



INDUSTRY 4.0

- Industry 4.0 ready
- OPC UA connection
- OEE Monitoring
- Remote Access



EFFICIENCY

- High reduction of intermediate times
- AI assistance systems for faster start up
- Operator guidance for more efficiency



TPM

- Constantly actuators check up
- Downtime warnings
- Reminder message connected via OPC UA



TRAINING

- Intuitive HMI user guide
- All functions and buttons visualized with icons
- Assistance button on each side



PRODUCTION

- Quality improvement through self-examination
- Set Up assistance with show it videos



OPC UA

IO-Link

WiFi

USB



INDUSTRY 4.0




- Video guided machine control
- Intelligent setting control
- Parameter assistant
- Set Up slide shows
- Visualized error message
- Dashboard selection
- App gallery
- Ready for industry 4.0

Program faster and reduce non-productive times!

Simplify complex processes and make them intuitive to use, this is a challenge that we are always happy to face!

We are sure that this new control concept will exceed all expectations and lift the operator experience into completely new spheres.



Visualization

100 %

- Intuitiv haptics with full visualized process guidance
- Super high quality look & feel



OEE Monitoring App
calculation, realtime

Function Bar

Permanent Bar

Motion Board



Dash Board


Status bar

Menu Bar

Status Board

Produce more efficiently!

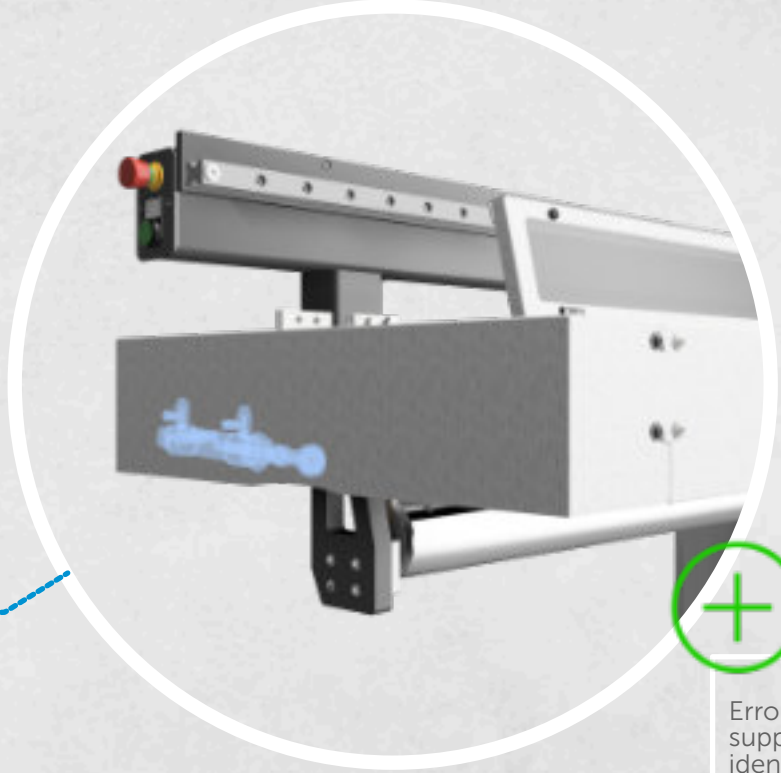
With the software bundel - Simple Set Up - you can increase the efficiency of your production enormously.
Developed for a "one piece flow" production and the requirements of "Total Productive Maintenance", the machine supports the operator as well as the planning.



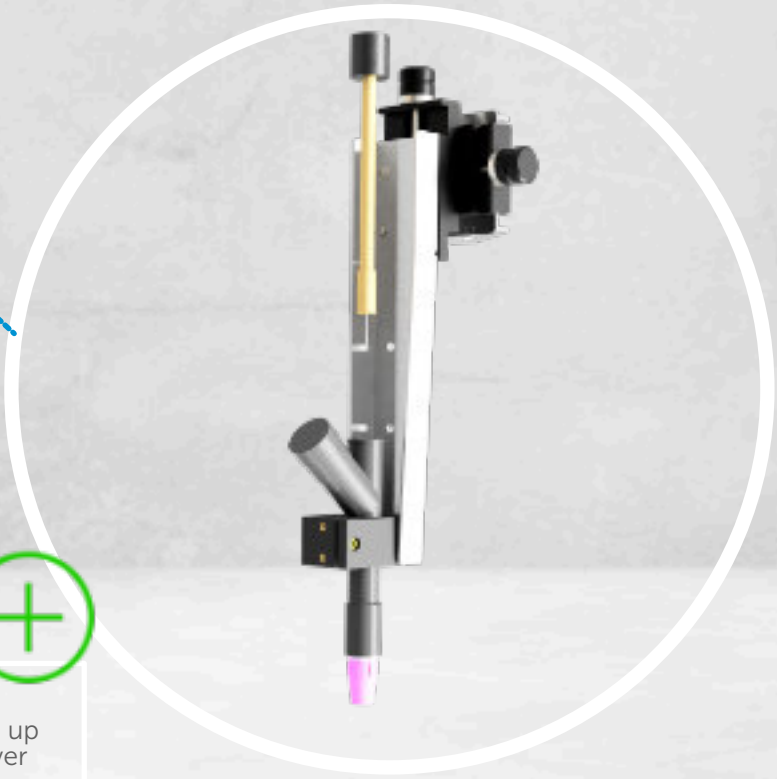
PERFORMANCE

290 %

- More PLC Control performance
- I/O Link - intelligent sensorics
- ProfiNET



Error and warning messages, visually supported for quick and clear identification



Slide show video supported set up for a fast and reliable changeover

Stay in the loop!

The challenge of producing ever-smaller series with utmost flexibility can often result in a hectic working space and time pressure. This also increases the risk of errors. Using the software bundle - ADVANCED STORE, you can take steps to address this by making your order management transparent. This option enables you to control your production and manage all production orders. As a result, you avoid errors and delays while staying in the loop at all times.



DATA STORE

400 %

- More storage space and performance
- Brand new product-catalogue function
- Online / offline compare function



Pre installed Parameter Database, for a wide range of different materials and thicknesses



Parameter upload by Data code reader

Improve your quality!

Automatic welding is high-tech teamwork of various system components. Only when they work together perfectly, there are outstanding welding results of high economic efficiency guaranteed. It always comes on the detail - from the transport of the components to the ignition of the arc.

The intelligent and precise interaction of all modules involved in the welding process guarantees the constant and always reproducible quality of the weld seams.



Direct access for main setting in the Dashboard function

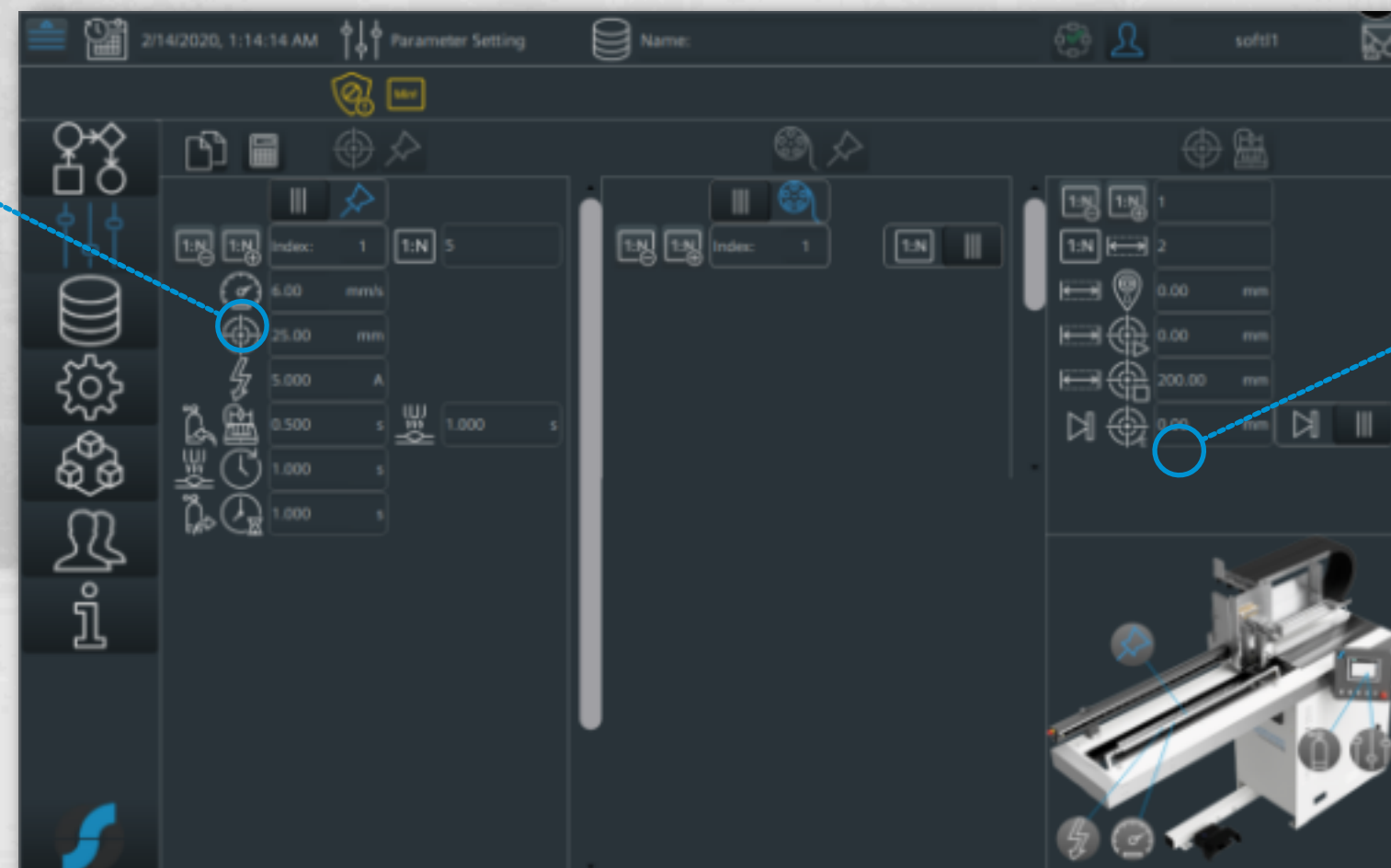
Plausibility control function helps you to set up the machine always right



FUNCTIONS

33 %

- More Adjustment possibilities and Parameters available
- Plausibility control function
- Simulation mode



Always keep an eye on the production processes. At any time. From everywhere.

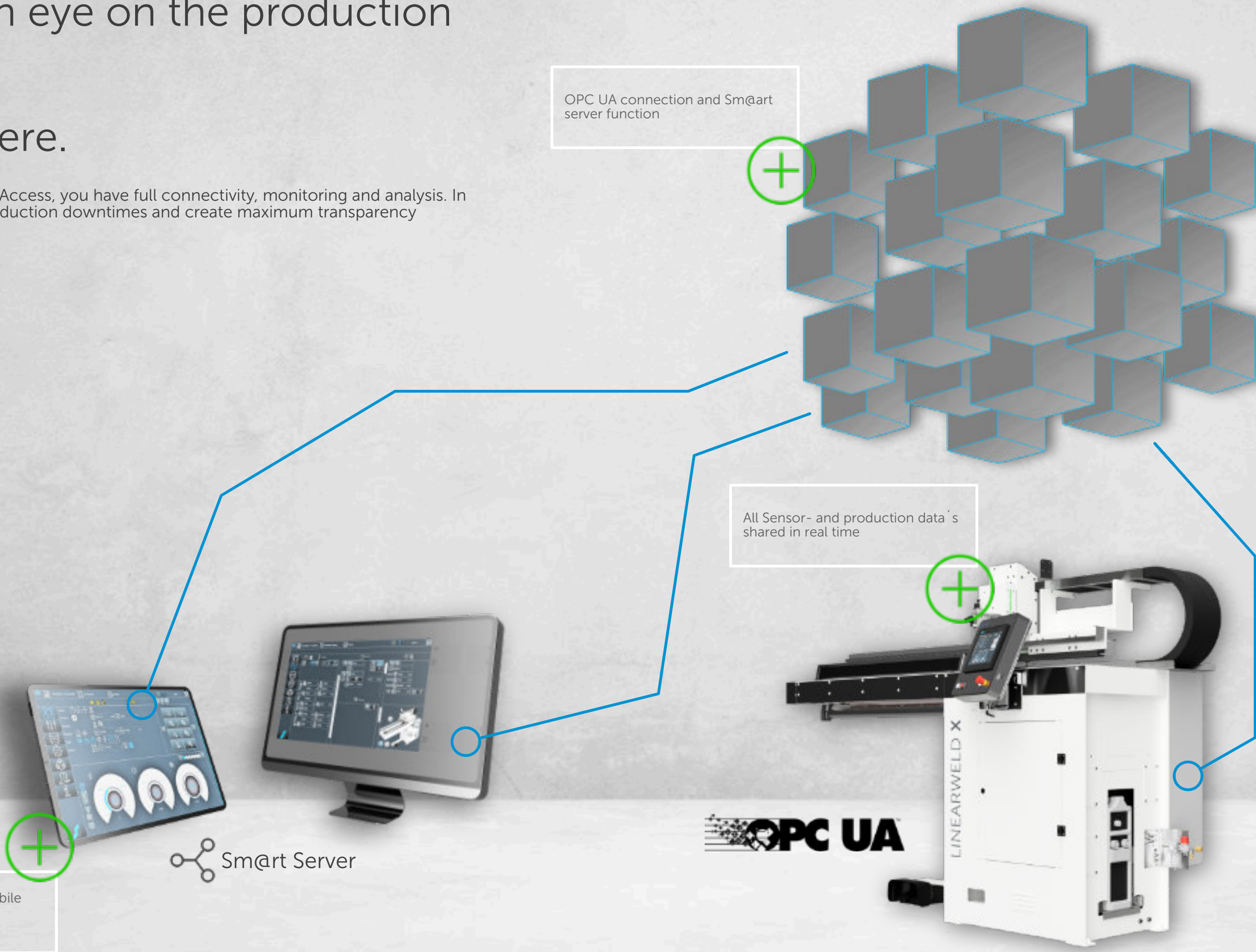
With the software bundle - Remote Access, you have full connectivity, monitoring and analysis. In this way you avoid machine and production downtimes and create maximum transparency



INDUSTRY 4.0

100 %

- Ready for industry 4.0
- OPC UA Server & Client mode
- AI (artificial intelligence) Parameter controle



Xtra in welding automation

High quality and productive longitudinal seam welding requires the use of advanced and superior technologies. This enables us to protect and expand our market position.

Our LINEARWELD X-Series longitudinal seam welding machines offer unsurpassed technology for welding metallic longitudinal seams.



00,20 mm - 03,00 mm



200 mm - 1600 mm



35 mm - 1050 mm*



Stainless Steel | Mild Steel |
Carbon Steel | Galvanized
Steel | Aluminium | Titanium |
Copper



HIGHEST PRECISION FOR PERFECT WELDING

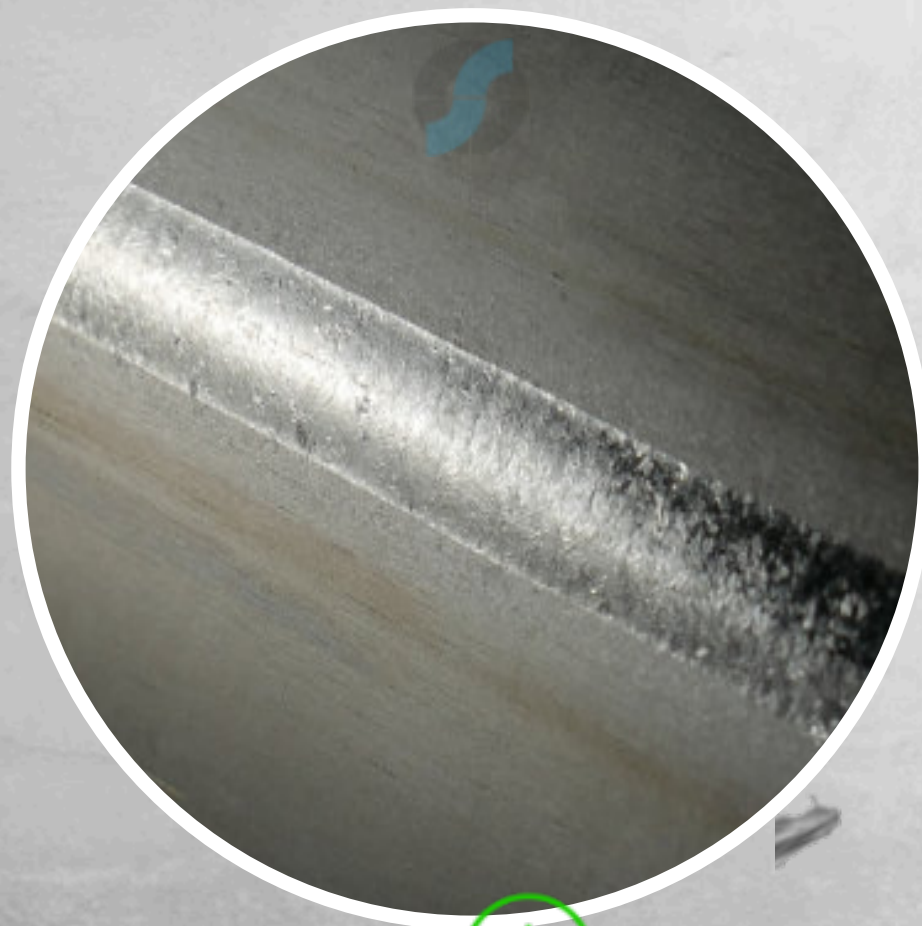
- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
- Quick-change system for the backing track
- Intuitive user interface with clear program management
- High-grade components



* With standard machine body, bigger diameters possible with hightening elements (option)

Perfect welds from the first part

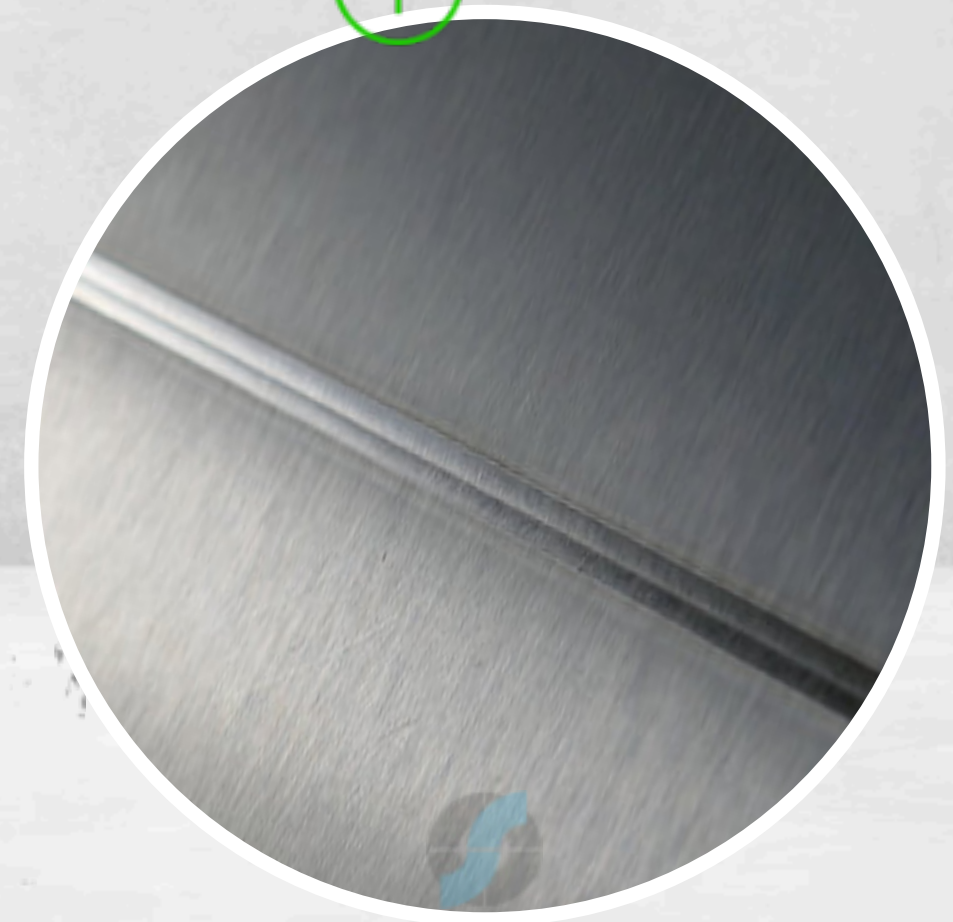
This helps improving the quality of your products as well, particularly if you are interested in a professional design.
The increased quality level of your products strengthens your image, justifies higher prices and thus improves your chances on the market



Titanium pipe
T: 1,5 mm
TIG



Copper pipe
T: 0,5 mm
TIG



Stainless Steel Chimney pipe
T: 0,6 mm
TIG



Ready to weld!



Minimal distortion of welded parts



Utilisation of all common welding processes



Wide range of control options



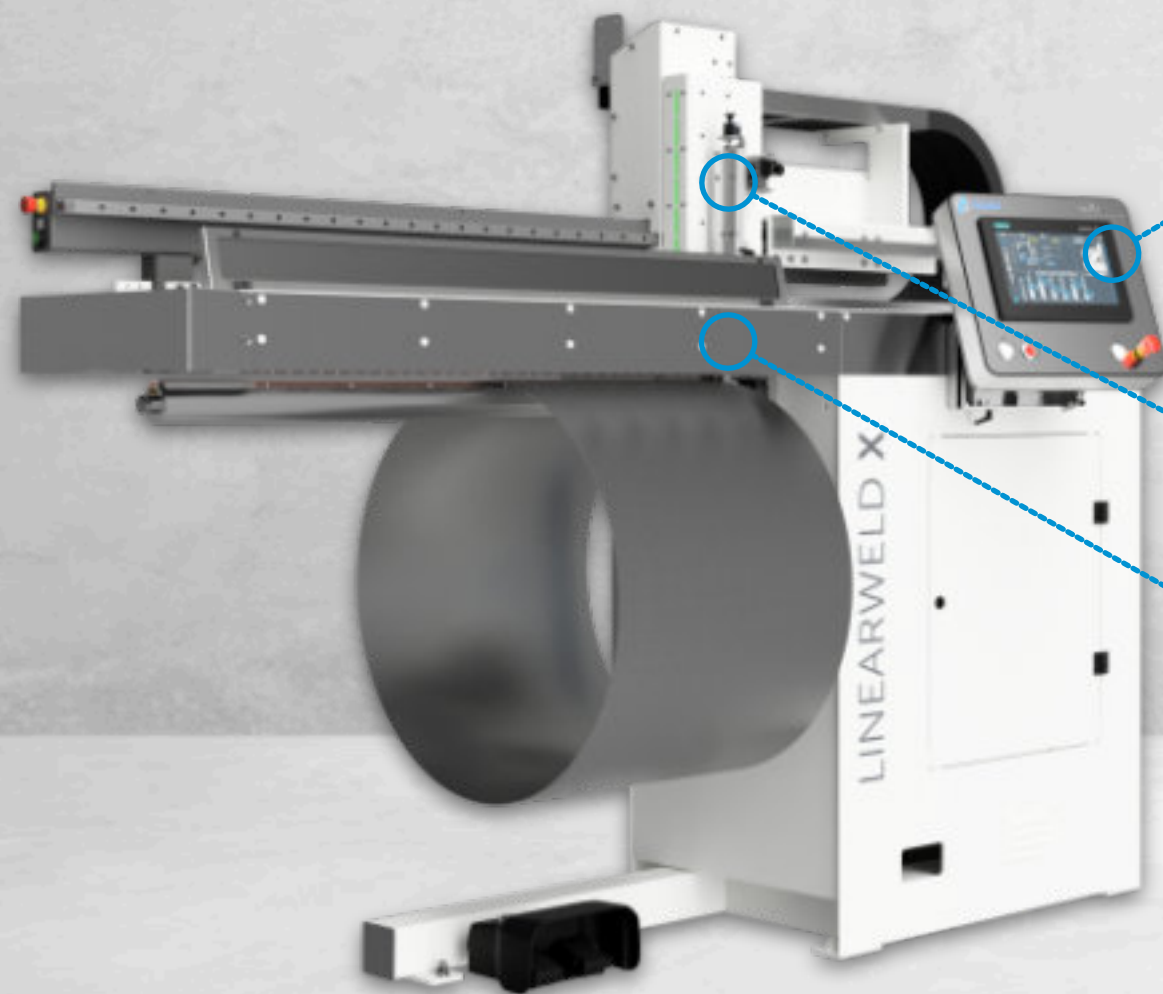
Easy to use



Increased welding speed



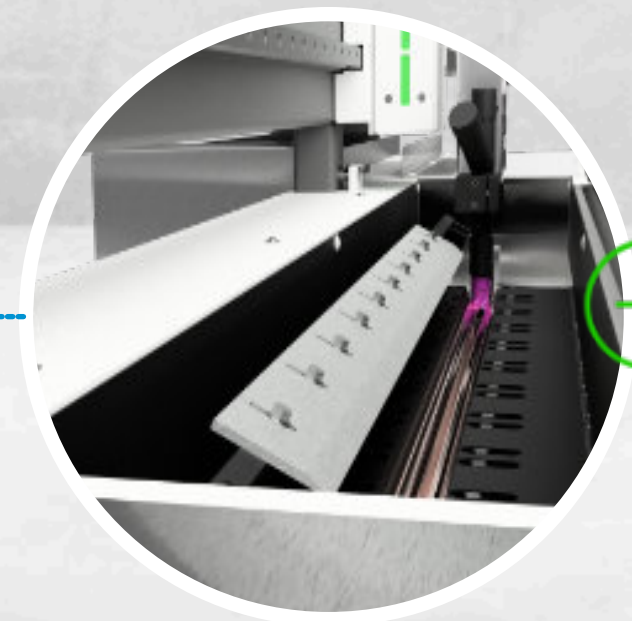
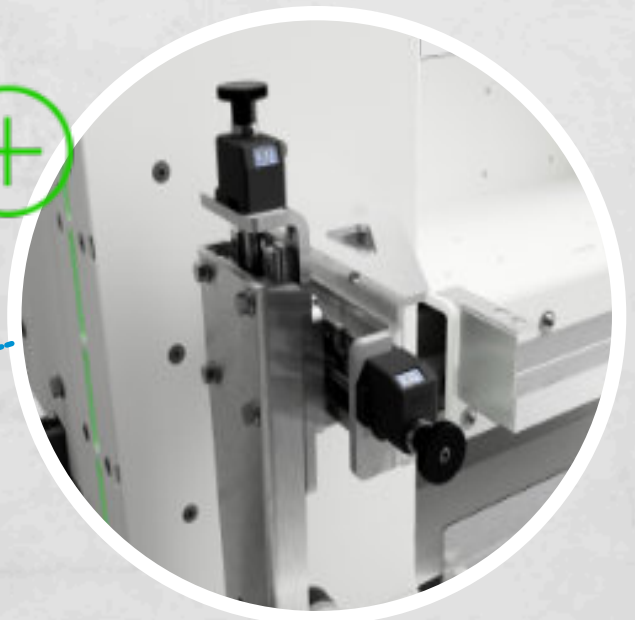
Reducing of overall cycle time



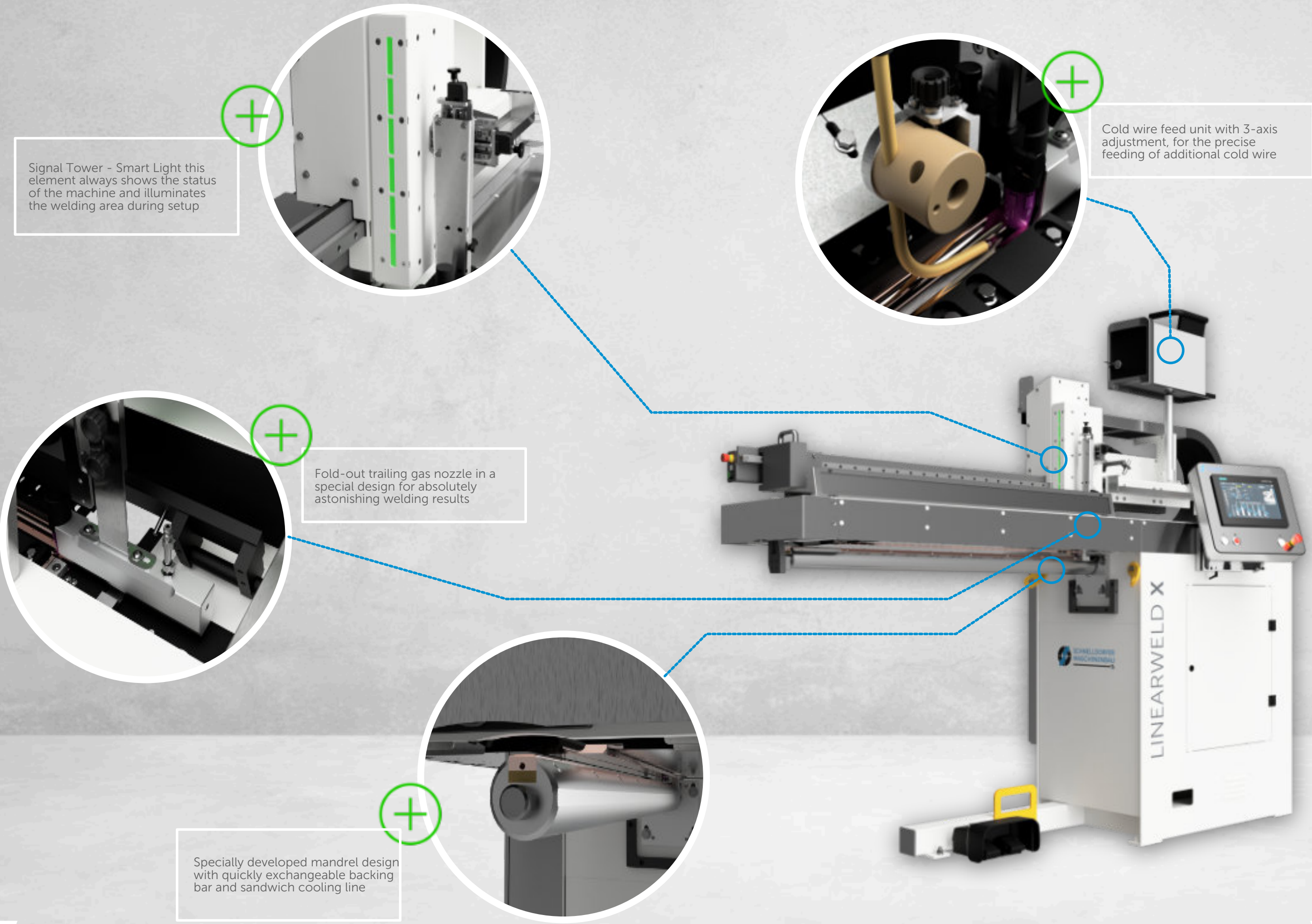
SIEMENS UNIFIED HMI
Equipped with the best welding
automation software on the market

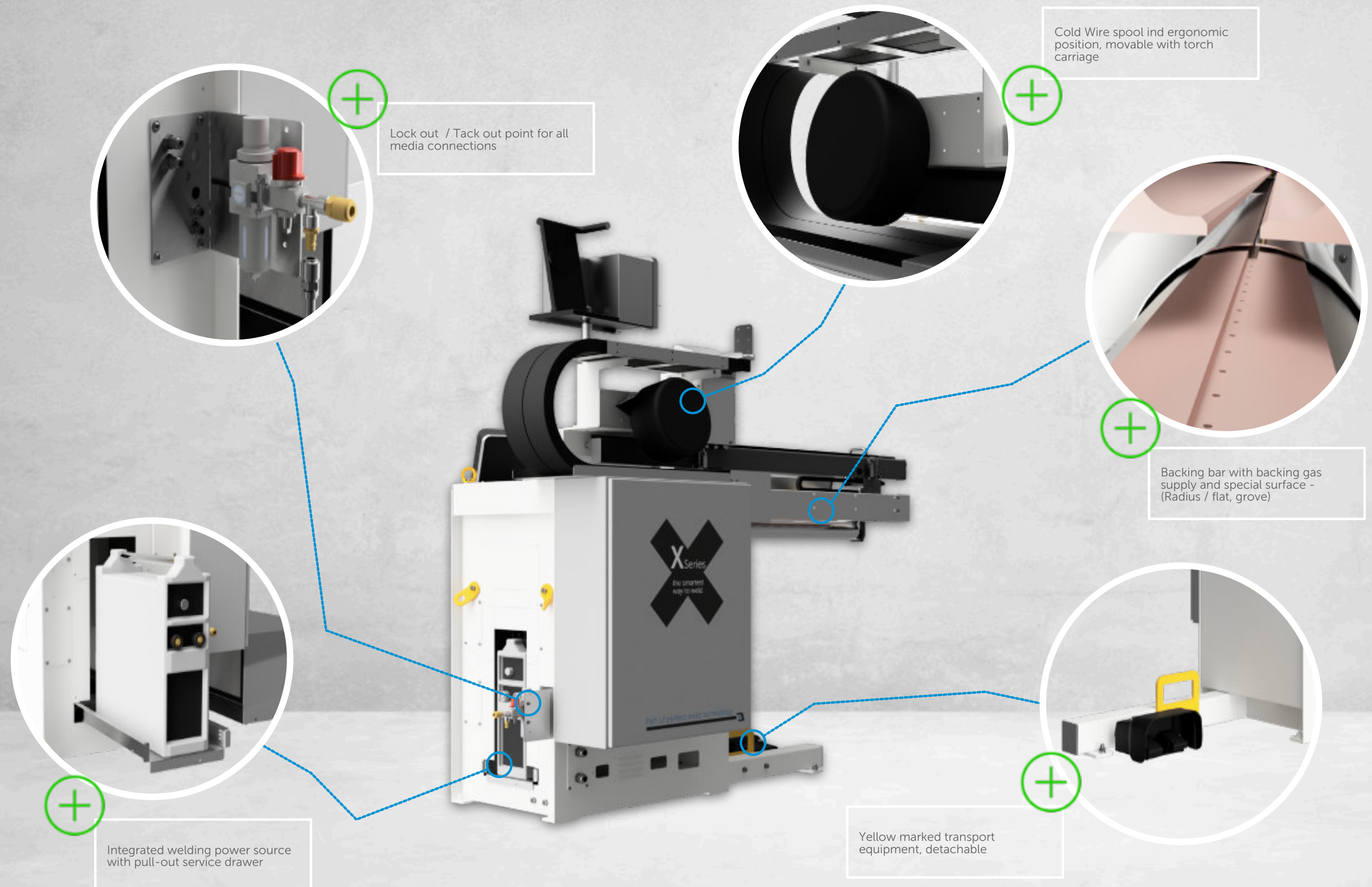


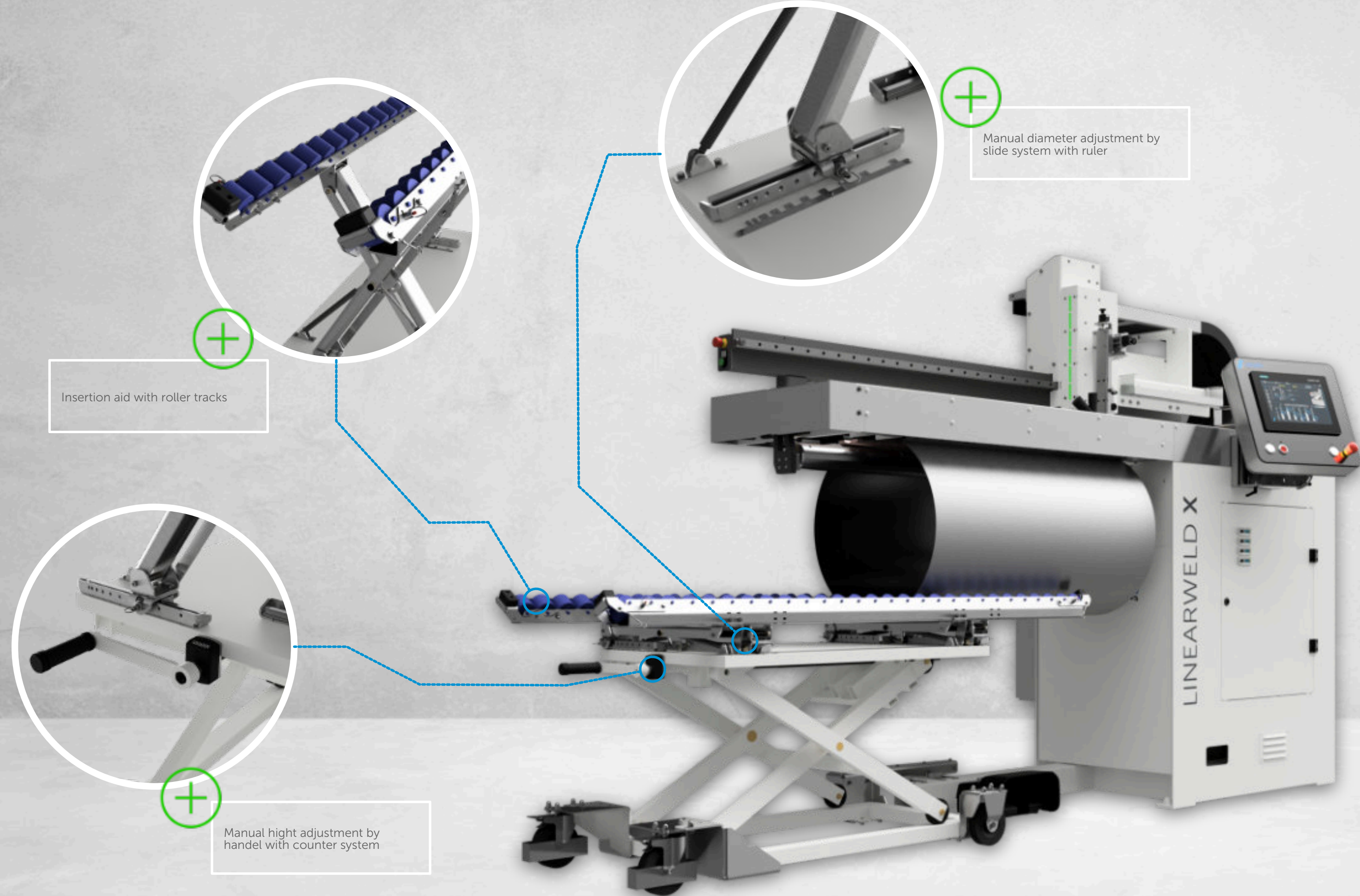
Torch support with counter in
combination with Touch & Signal
software function makes tungsten
setting 100% reliable and easy



High precision center stop and pre
clamp function, for the fastest and
most comfortable insertion of the
parts







LINEARWELD X	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
Max. welding lenght [mm]	220	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620
Min. Diameter (inside) mm]	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105
Max Diameter (outside) mm]	1050 mm (optional hightening elements . +250 / +500 / +750 / +1000)														
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,														
Material thickness [mm]	00,20 mm - 03,00 mm														
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure														
Clamping system	Pneumatic, Pre-clamp feature														
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)														
Mandrel lock	Pneumatic, position controlled														
Welding process	TIG, High performance TIG, Micro & Softplasma														
Welding direction	free selectable														
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)														
Cooling Circuit	Mandrel / Backing bar, Torch														
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015														
Control	Siemens S7-1515														
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel														
Motor	SIEMENS SINAMIC - S210 Servo motor														
Welding Interface	ProfiBus / ProfiNet														
Standard	CE-Mark / UL-prepared														
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid														
Air Supply	6 bar, dry, filtered														
Ambient Temperature	+ 10°C to + 35°C														

Xtra in Diameter

High quality and productive longitudinal seam welding requires the use of advanced and superior technologies. This enables us to protect and expand our market position.

Our LINEARWELD X-Series longitudinal seam welding machines offer unsurpassed technology for welding metallic longitudinal seams.



00,20 mm - 01,50 mm



200 mm - 1600 mm



25 mm - 1050 mm*

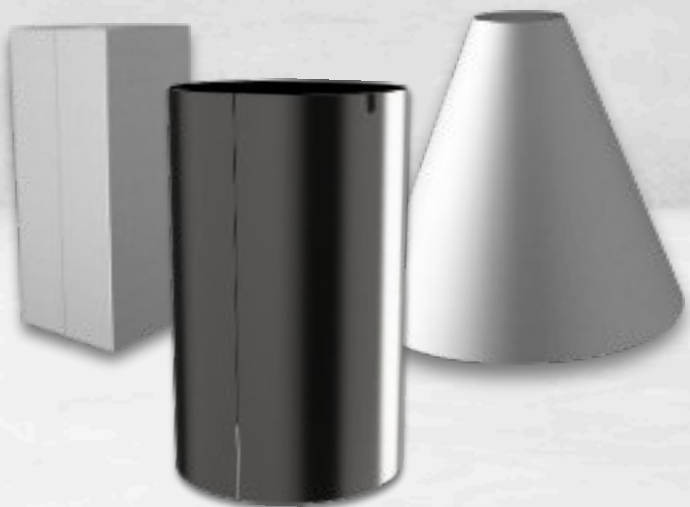


Stainless Steel | Mild Steel |
Carbon Steel | Galvanized
Steel | Aluminium | Titanium |
Copper



HIGHEST PRECISION FOR PERFECT WELDING

- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
- Quick-change system for the backing track
- Intuitive user interface with clear program management
- High-grade components



* With standard machine body, bigger diameters possible with hightening elements (option)

Perfect welds from the first part

This helps improving the quality of your products as well, particularly if you are interested in a professional design.
The increased quality level of your products strengthens your image, justifies higher prices and thus improves your chances on the market



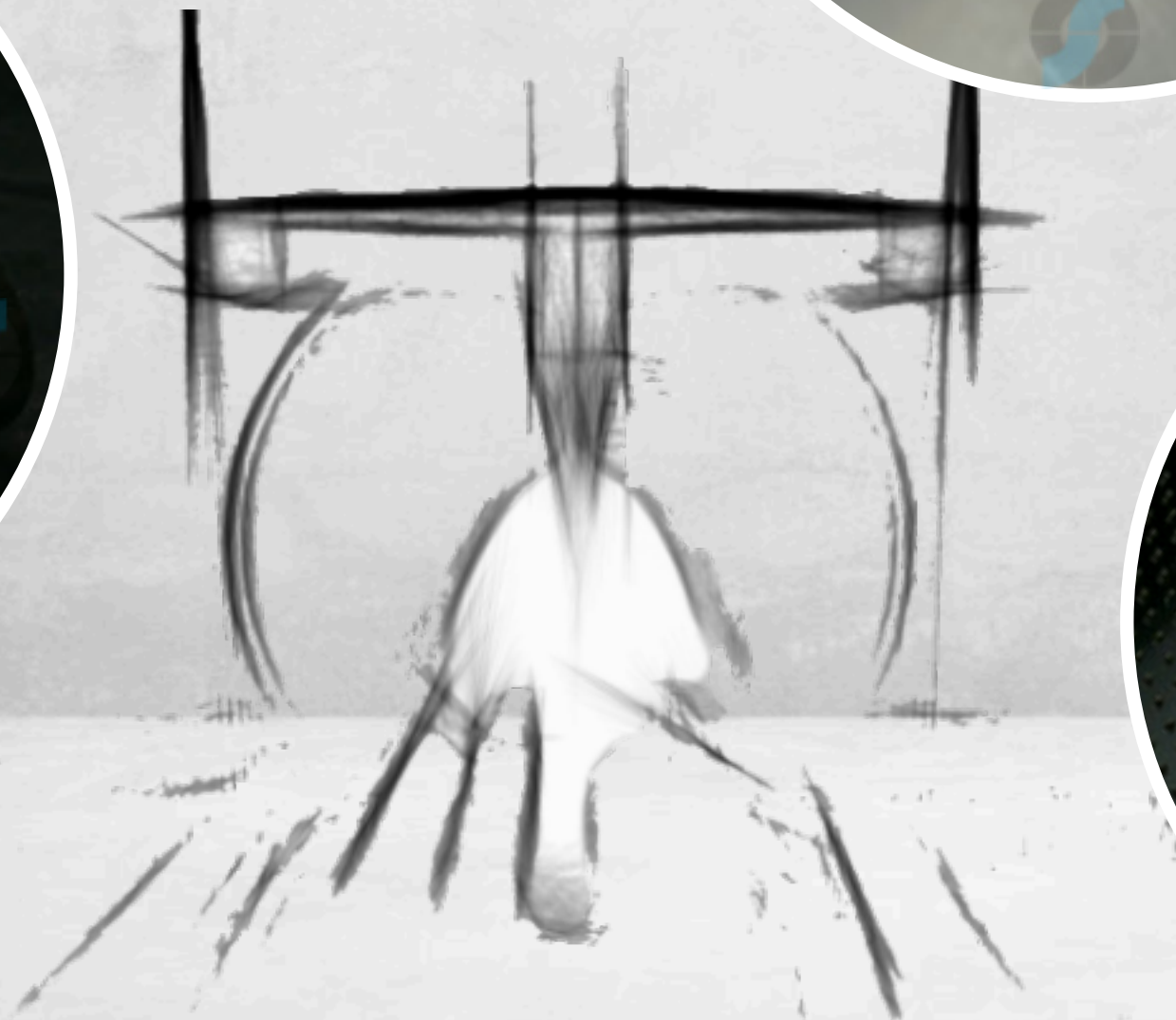
Stainless Steel cone
T: 0,3 mm
TIG



Stainless Steel bellow
T: 0,4 mm
TIG



Stainless Steel filter
T: 0,2 mm
TIG



Ready to weld!



Minimal distortion of welded parts



Utilisation of all common welding processes



Wide range of control options



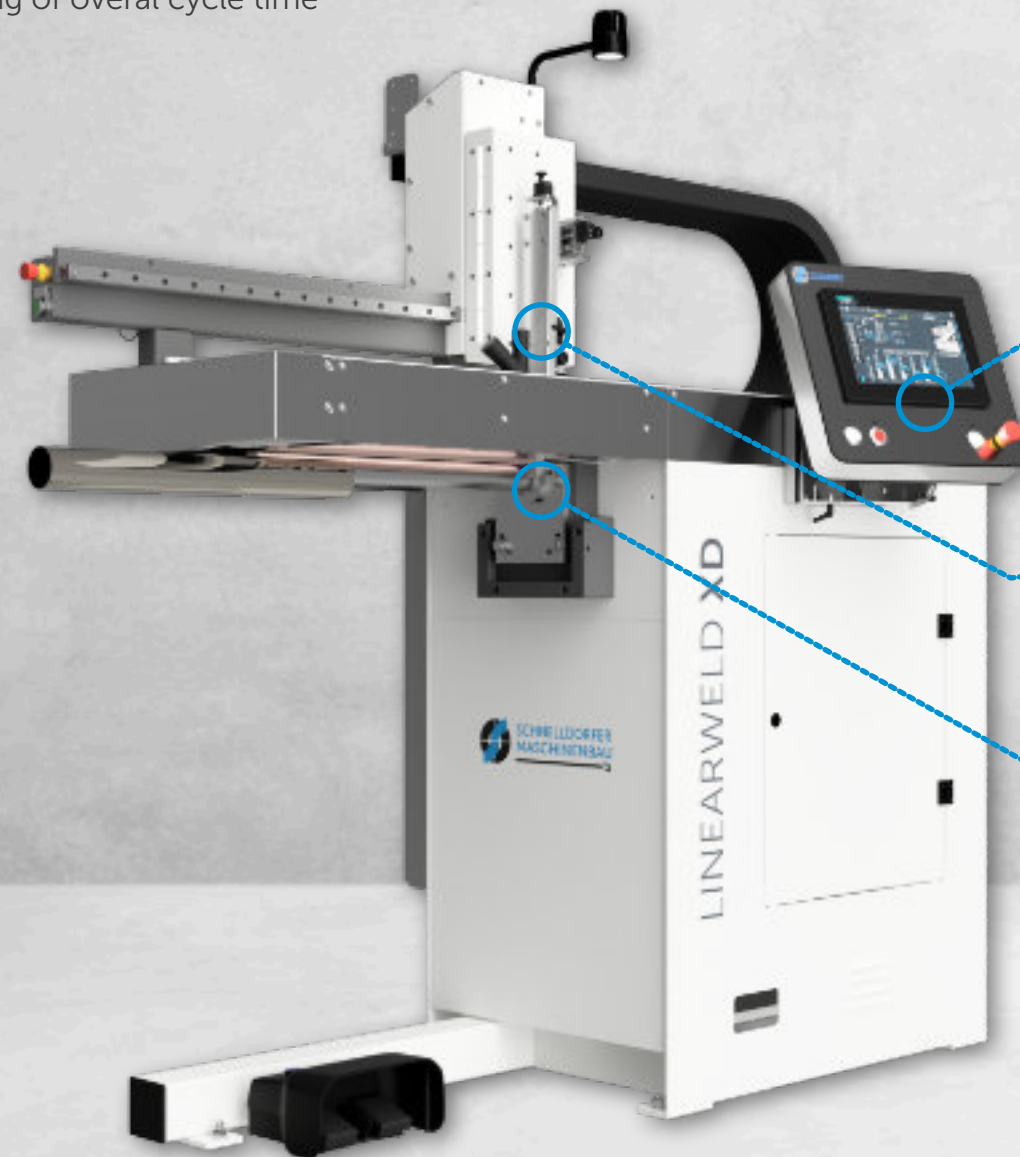
Easy to use



Increased welding speed



Reducing of overall cycle time



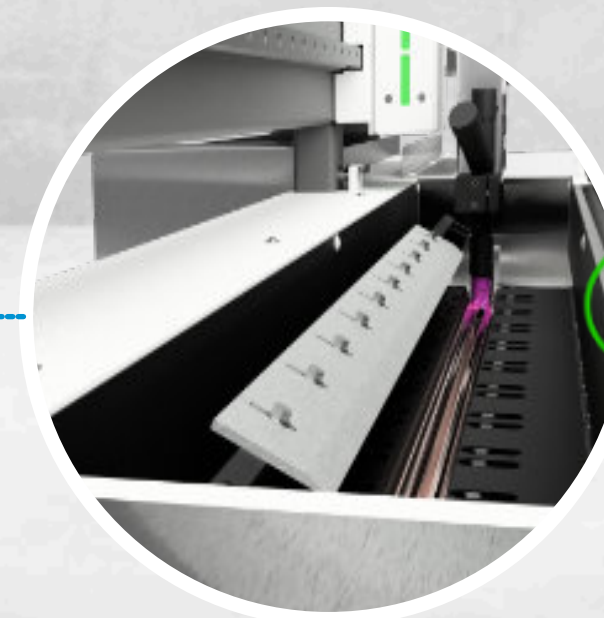
SIEMENS UNIFIED HMI
Equipped with the best welding
automation software on the market

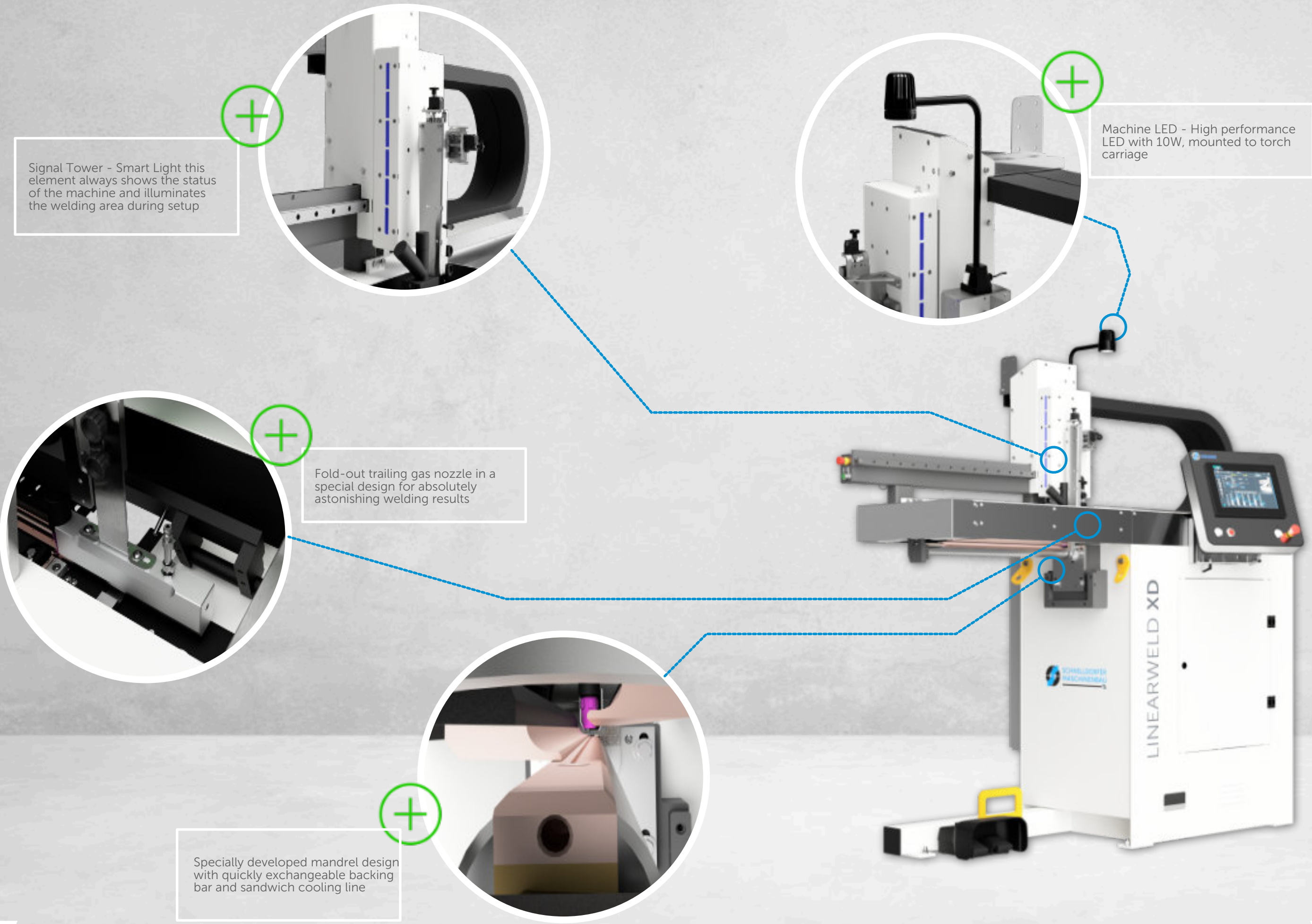


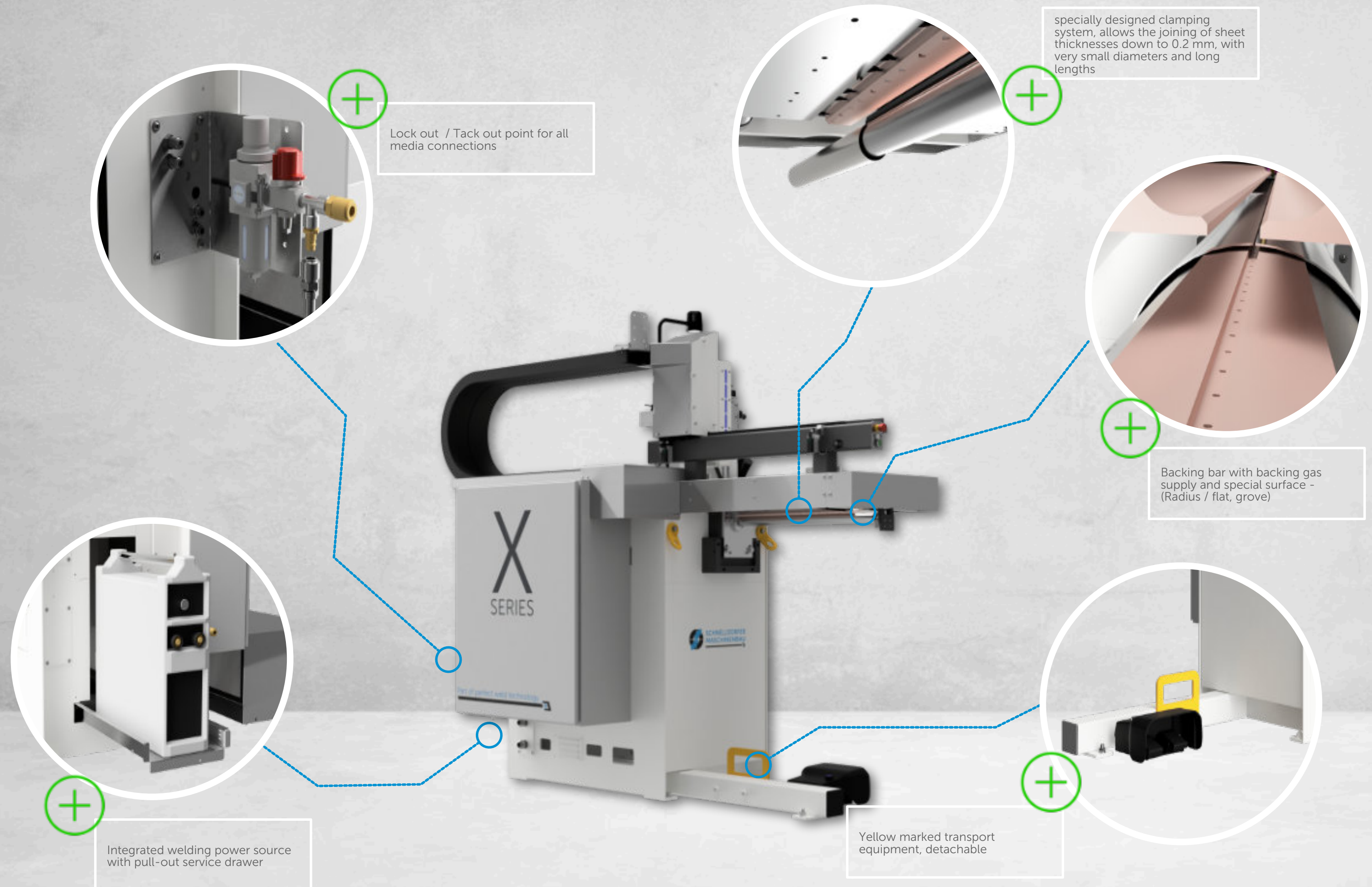
Torch support with counter in
combination with Touch & Signal
software function makes tungsten
setting 100% reliable and easy



High precision center stop and pre
clamp function, for the fastest and
most comfortable insertion of the
parts







LINEARWELD XD	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
Max. welding lenght [mm]	205	305	405	505	605	705	805	905	1005	1105	1205	1305	1405	1505	1605
Min. Diameter (inside) mm]	25	28	32	36	40	45	50	55	60	65	70	75	80	85	90
Max Diameter (outside) mm]	1050 mm (optional hightening elements . +250 / +500 / +750 / +1000)														
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,														
Material thickness [mm]	00,20 mm - 01,50 mm														
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure														
Clamping system	Pneumatic, Pre-clamp feature														
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)														
Mandrel lock	Pneumatic, position controlled														
Welding process	TIG, High performance TIG, Micro & Softplasma														
Welding direction	free selectable														
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)														
Cooling Circuit	Mandrel / Backing bar, Torch														
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015														
Control	Siemens S7-1515														
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel														
Motor	SIEMENS SINAMIC - S210 Servo motor														
Welding Interface	ProfiBus / ProfiNet														
Standard	CE-Mark / UL-prepared														
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid														
Air Supply	6 bar, dry, filtered														
Ambient Temperature	+ 10°C to + 35°C														

Xtra in Precision

High quality and productive longitudinal seam welding requires the use of advanced and superior technologies. This enables us to protect and expand our market position.

Our LINEARWELD X-Series longitudinal seam welding machines offer unsurpassed technology for welding metallic longitudinal seams.



	00,15 mm - 00,80 mm
	250 mm - 1000 mm
	15 mm - 1050 mm*
	Stainless Steel Mild Steel Carbon Steel Galvanized Steel Aluminium Titanium Copper

HIGHEST PRECISION FOR
PERFECT WELDING

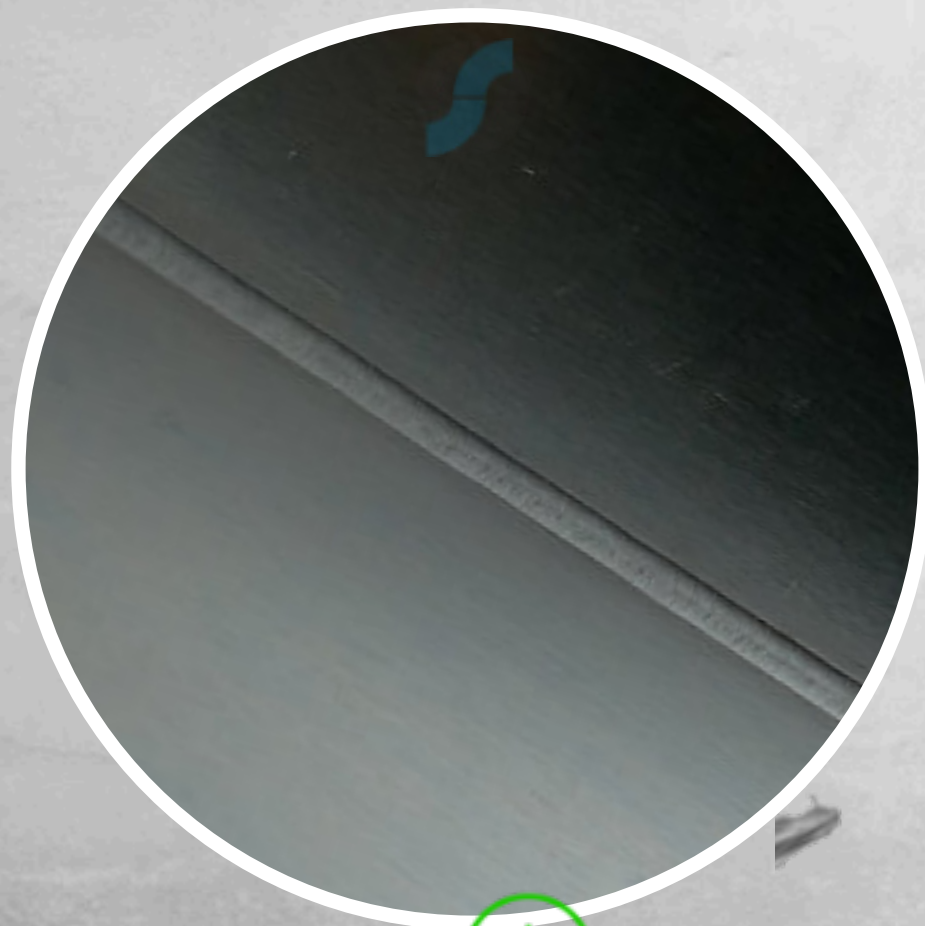
- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
- Quick-change system for the backing track
- Intuitive user interface with clear program management
- High-grade components



* With standard machine body, bigger diameters possible with hightening elements (option)

Perfect welds from the first part

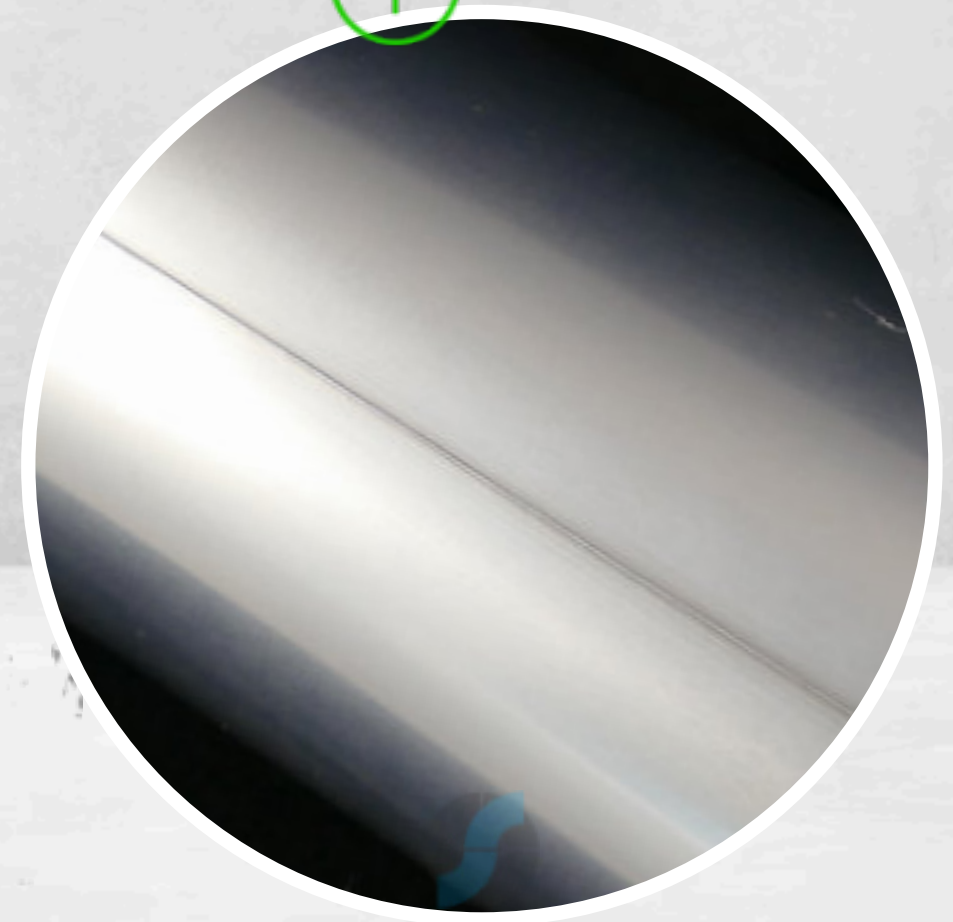
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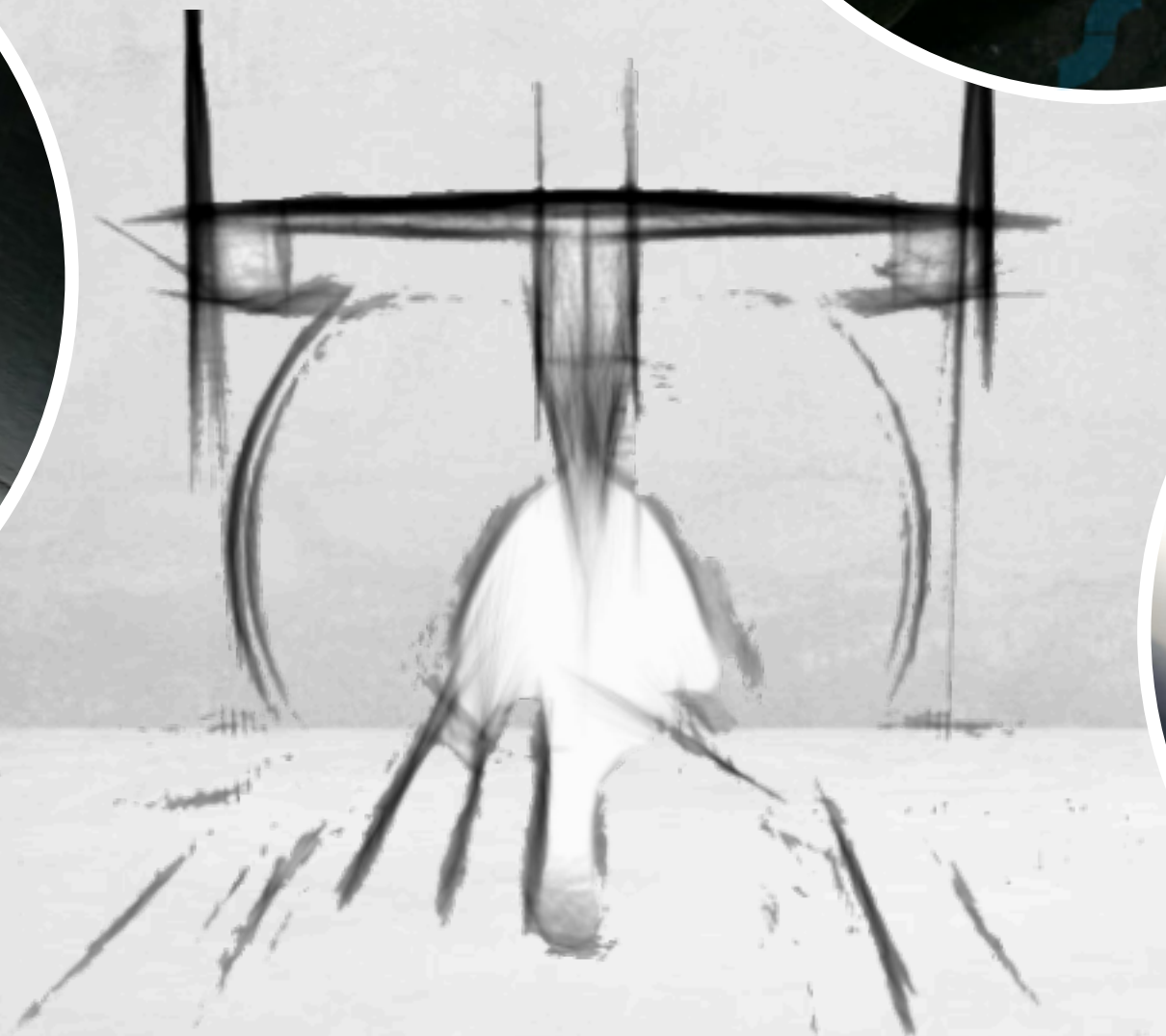
Titanium pipe
T: 1,5 mm
TIG



Copper pipe
T: 0,5 mm
TIG



Stainless Steel Chimney pipe
T: 0,6 mm
TIG



Ready to weld!



Minimal distortion of welded parts



Utilisation of all common welding processes



Wide range of control options



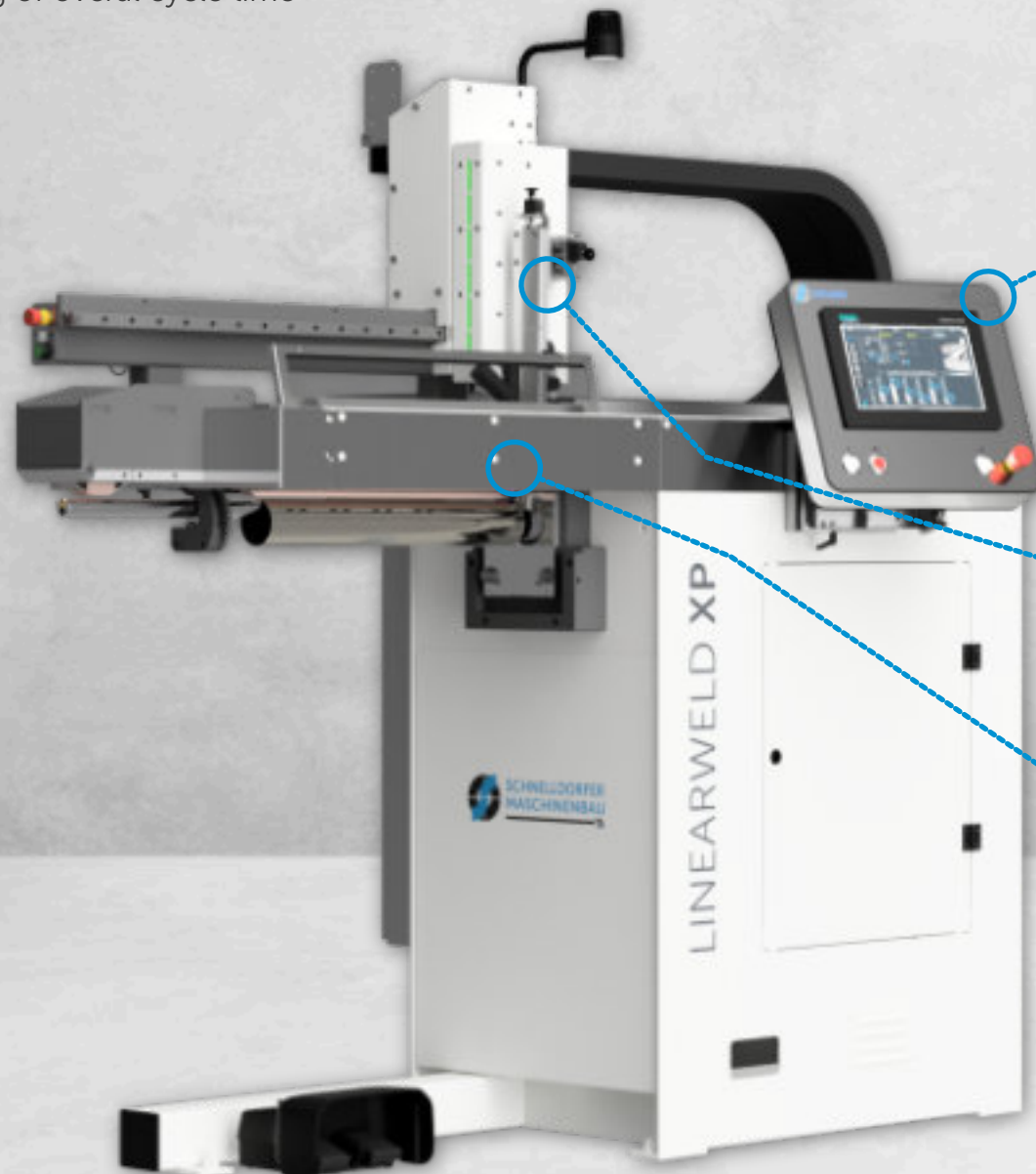
Easy to use



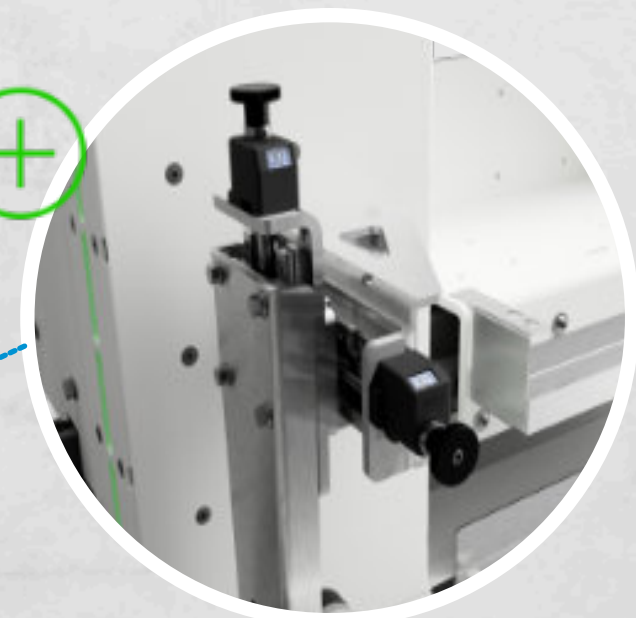
Increased welding speed



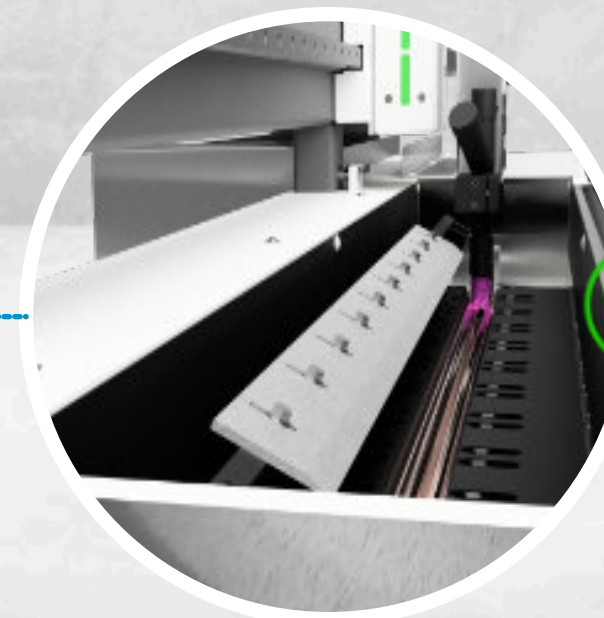
Reducing of overall cycle time



SIEMENS UNIFIED HMI
Equipped with the best welding
automation software on the market

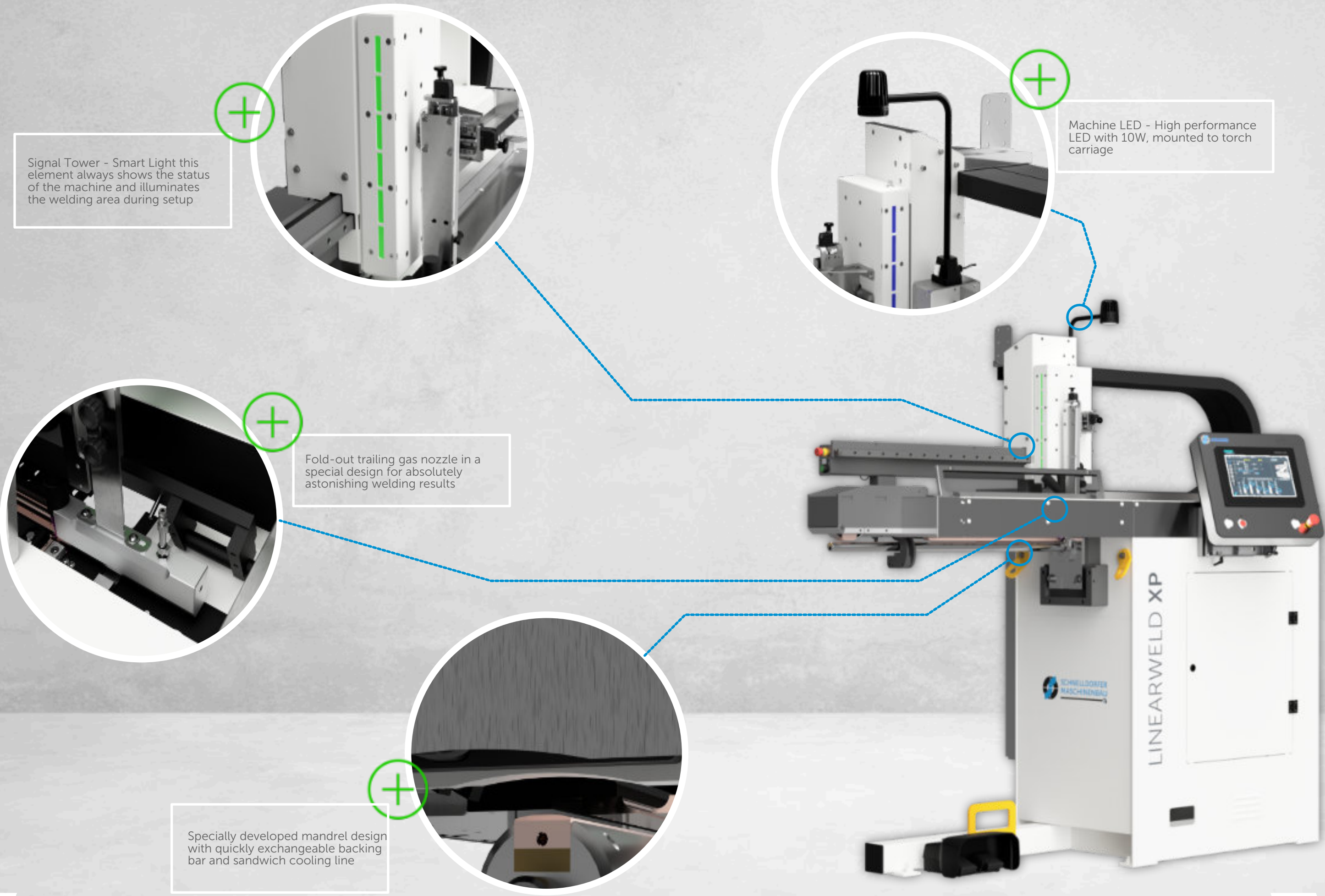


Torch support with counter in
combination with Touch & Signal
software function makes tungsten
setting 100% reliable and easy



High precision center stop and pre
clamp function, for the fastest and
most comfortable insertion of the
parts



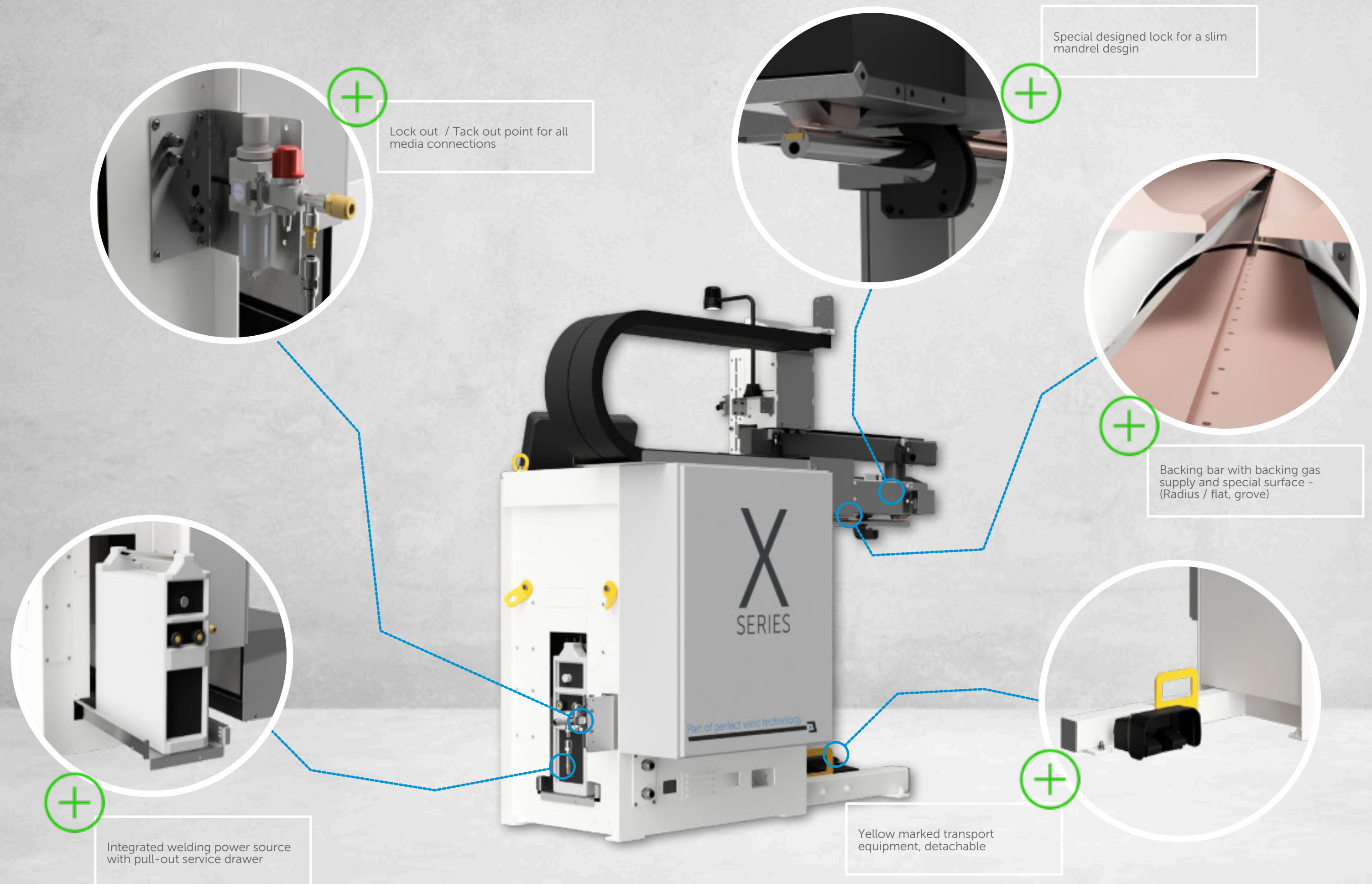


Signal Tower - Smart Light this element always shows the status of the machine and illuminates the welding area during setup

Machine LED - High performance LED with 10W, mounted to torch carriage

Fold-out trailing gas nozzle in a special design for absolutely astonishing welding results

Specially developed mandrel design with quickly exchangeable backing bar and sandwich cooling line



LINEARWELD XP	250	350	450	600	800	1000
Max. welding lenght [mm]	252	352	452	602	802	1002
Min. Diameter (inside) mm]	15	21	27	32	40	50
Max Diameter (outside) mm]	1050 mm (optional hightening elements . +250 / +500 / +750 / +1000)					
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,					
Material thickness [mm]	00,15 mm - 00,80 mm					
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure					
Clamping system	Pneumatic, Pre-clamp feature					
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)					
Mandrel lock	Pneumatic, position controlled					
Welding process	TIG, High performance TIG, Micro & Softplasma					
Welding direction	free selectable					
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)					
Cooling Circuit	Mandrel / Backing bar, Torch					
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015					
Control	Siemens S7-1515					
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel					
Motor	SIEMENS SINAMIC - S210 Servo motor					
Welding Interface	ProfiBus / ProfiNet					
Standard	CE-Mark / UL-prepared					
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid					
Air Supply	6 bar, dry, filtered					
Ambient Temperature	+ 10°C to + 35°C					

Xtra Large in welding automation

High quality and productive longitudinal seam welding requires the use of advanced and superior technologies. This enables us to protect and expand our market position.

Our LINEARWELD X-Series longitudinal seam welding machines offer unsurpassed technology for welding metallic longitudinal seams.



	00,50 mm - 15,00 mm
	600 mm - 4100 mm
	80 mm - 1050 mm*
	Stainless Steel Mild Steel Carbon Steel Galvanized Steel Aluminium Titanium Copper

+ HIGHEST PRECISION FOR PERFECT WELDING

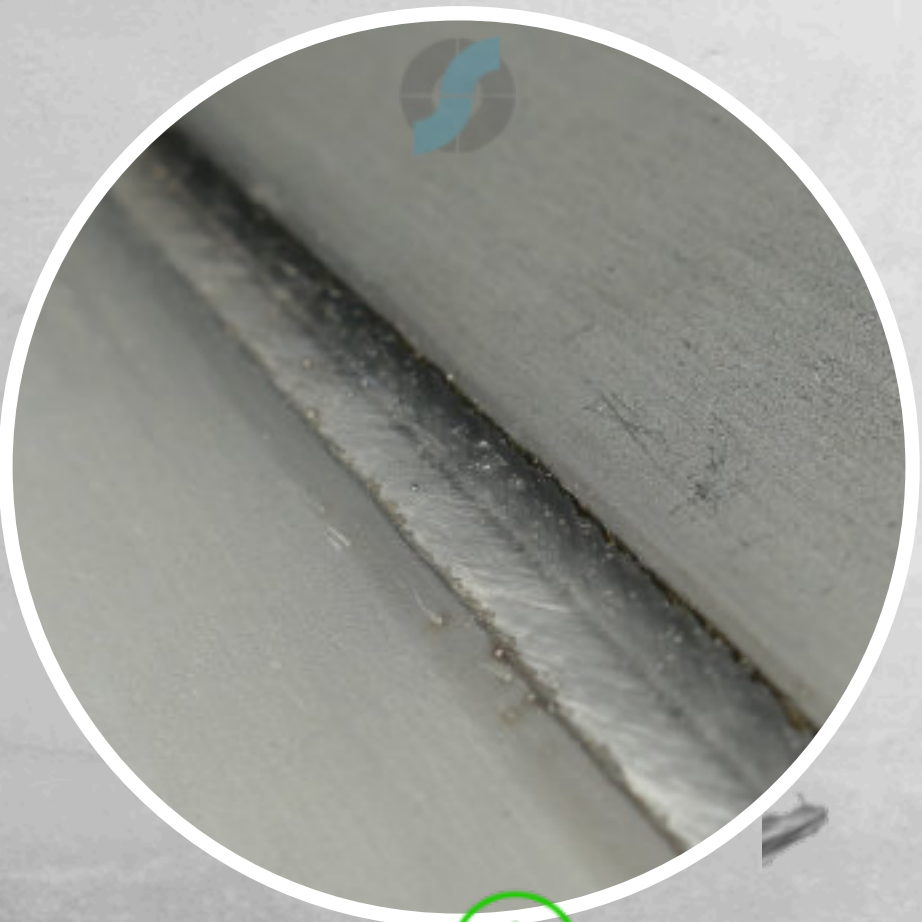
- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
- Quick-change system for the backing track
- Intuitive user interface with clear program management
- High-grade components



* With standard machine body, bigger diameters possible with hightening elements (option)

Perfect welds from the first part

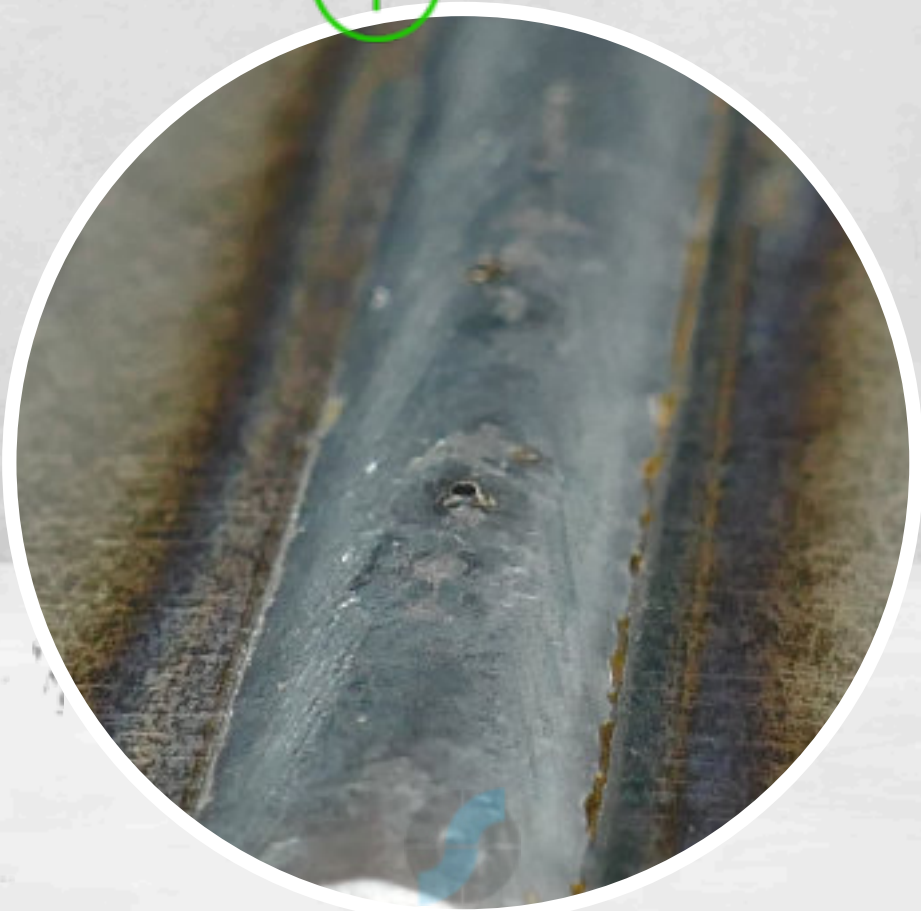
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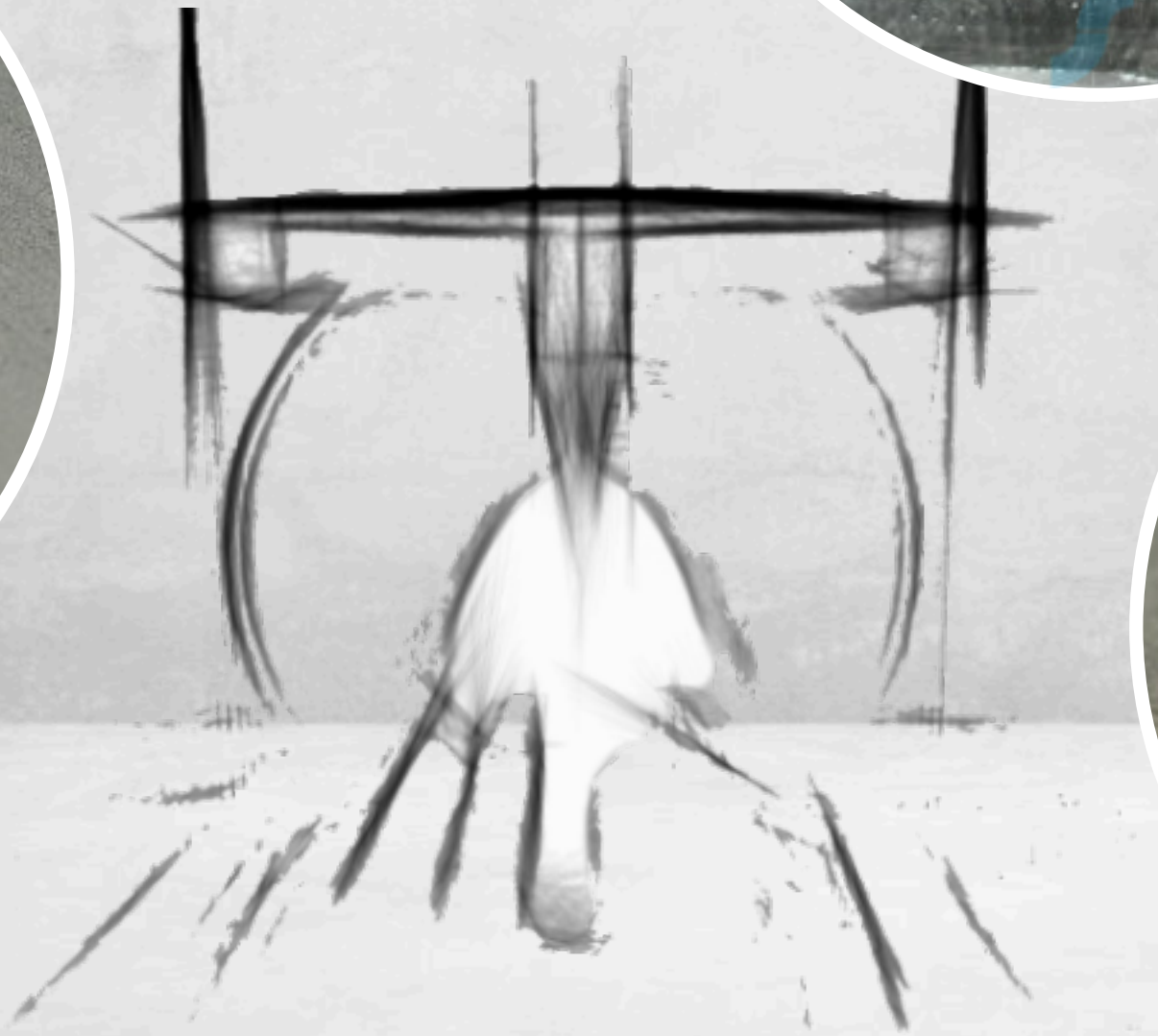
Stainless Steel vessel
T: 5,0 mm
MIG/MAG (GMAW)



Stainless Steel Tank
T: 10,0 mm
Plasma Keyhole



Mild Steel vessel
T: 6,0 mm
MIG/MAG (GMAW)



Ready to weld!



Minimal distortion of welded parts



Utilisation of all common welding processes



Wide range of control options



Easy to use



Increased welding speed



Reducing of overall cycle time



SIEMENS UNIFIED HMI
Equipped with the best welding
automation software on the market



Torch support with counter in
combination with Touch & Signal
software function makes tungsten
setting 100% reliable and easy



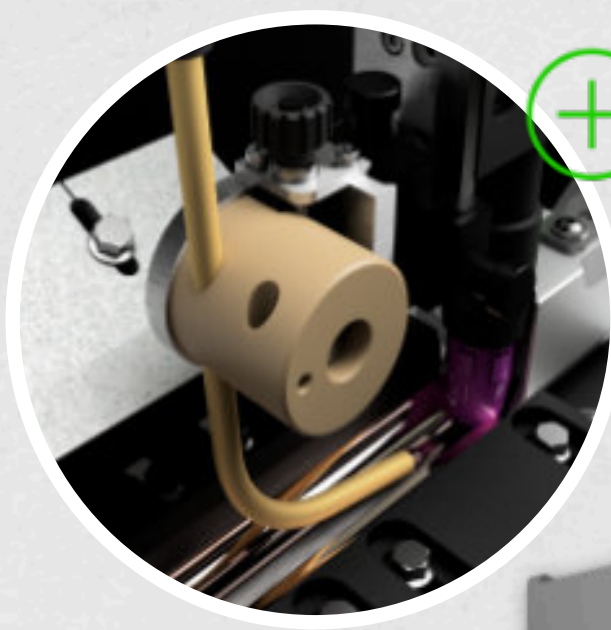
High precision center stop and pre
clamp function, for the fastest and
most comfortable insertion of the
parts



Signal Tower - Smart Light this element always shows the status of the machine and illuminates the welding area during setup



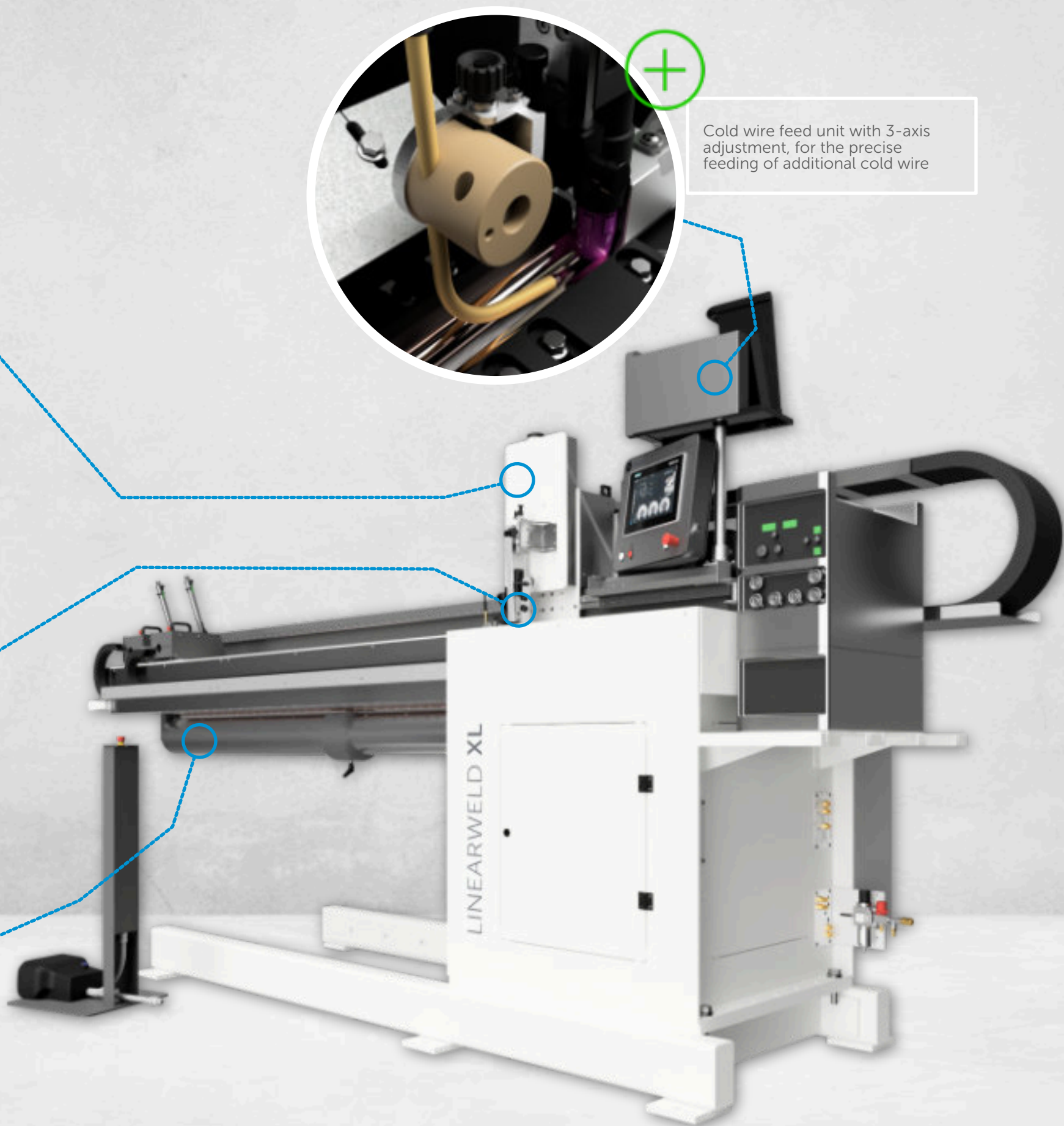
Cold wire feed unit with 3-axis adjustment, for the precise feeding of additional cold wire

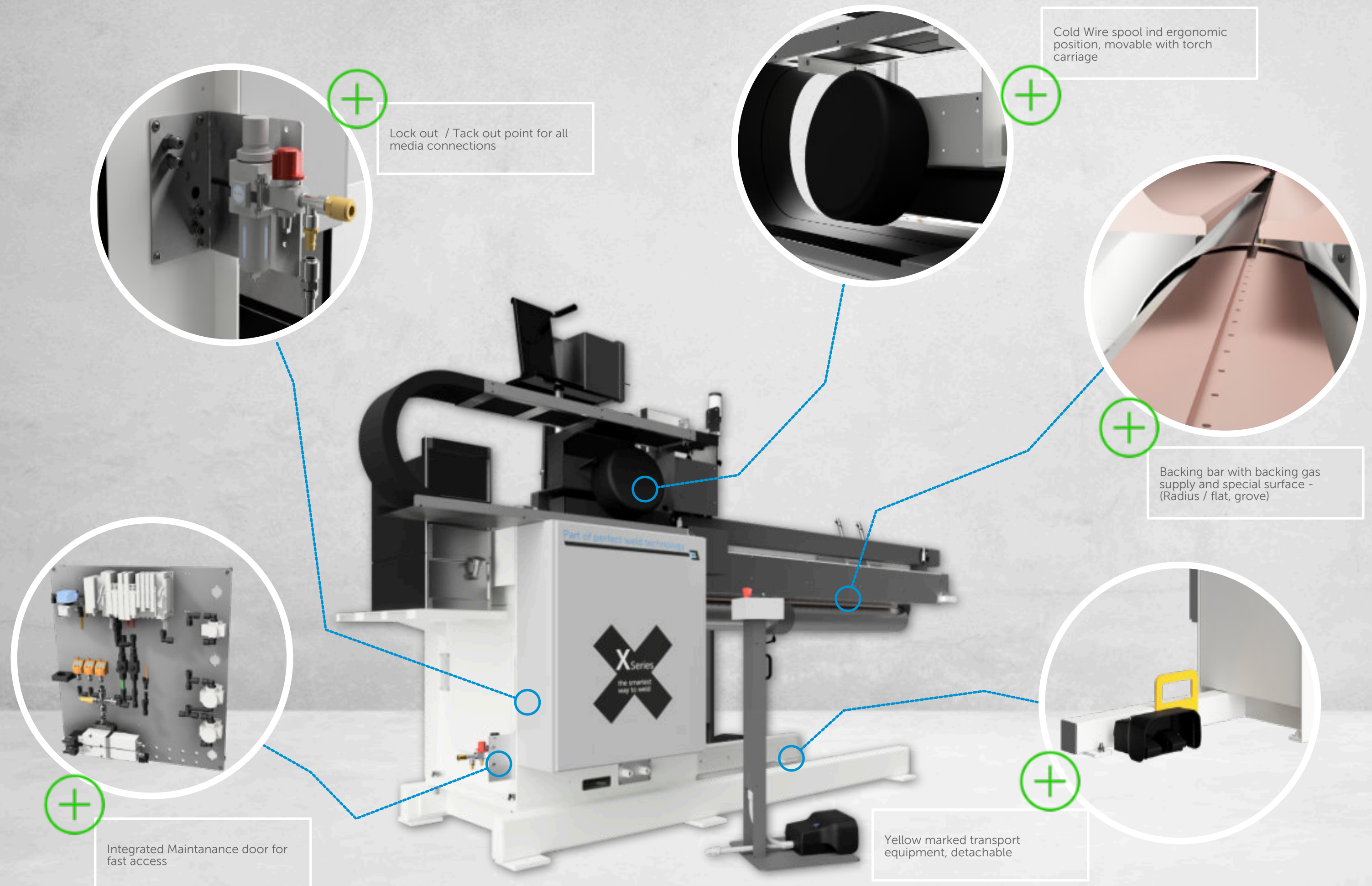


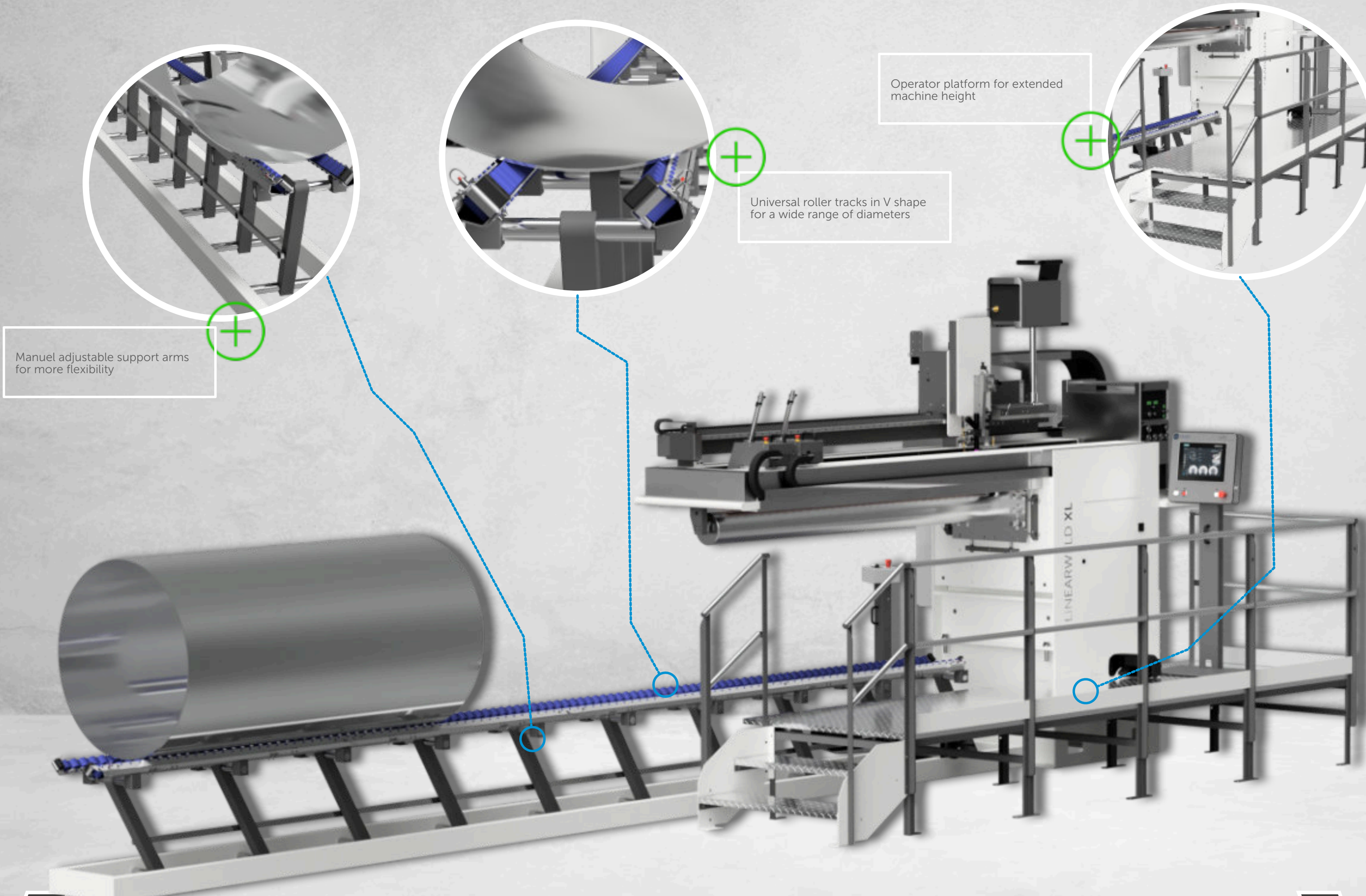
Fold-out trailing gas nozzle in a special design for absolutely astonishing welding results



Specially developed mandrel design with quickly exchangeable backing bar and sandwich cooling line



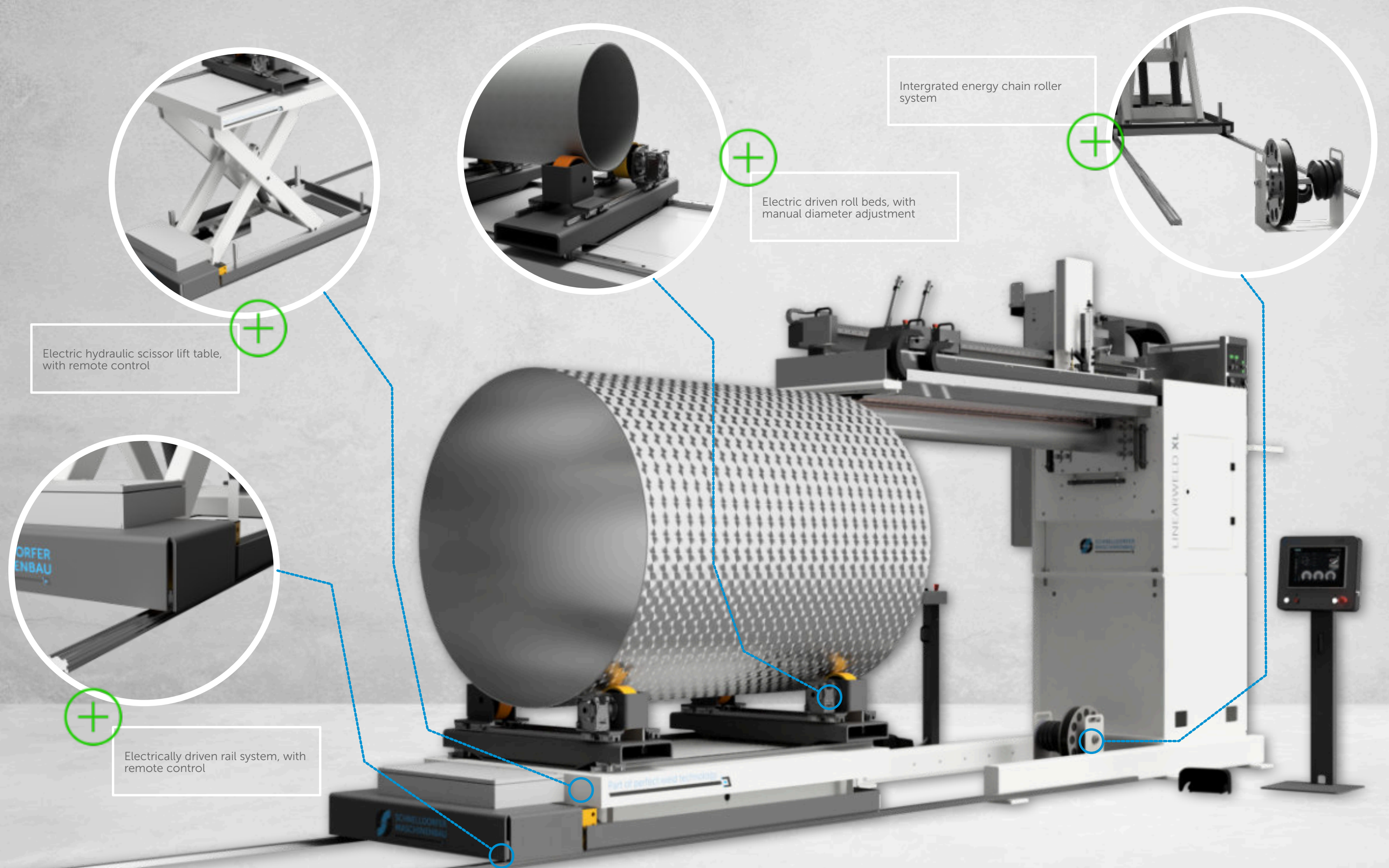




Manuel adjustable support arms
for more flexibility

Universal roller tracks in V shape
for a wide range of diameters

Operator platform for extended
machine height



Electric hydraulic scissor lift table,
with remote control

Electric driven roll beds, with
manual diameter adjustment

Integrated energy chain roller
system

Electrically driven rail system, with
remote control

LINEARWELD XL EXTL	600	800	1100	1300	1600	2100	2600	3100	3600	4100
Max. welding lenght [mm]	620	820	1120	1320	1620	2120	2620	3120	3620	4120
Min. Diameter (inside) mm]	80	95	115	125	145	225*	260*	305*	355*	385*
Max Diameter (outside) mm]	1050 mm (optional hightening elements . +250 / +500 / +750 / +1000)									
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,									
Material thickness [mm]	00,50 mm - 15,00 mm									
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure									
Clamping system	Pneumatic, Pre-clamp feature									
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)									
Mandrel lock	Pneumatic, position controlled									
Welding process	TIG, High performance TIG, Micro & Softplasma									
Welding direction	free selectable									
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)									
Cooling Circuit	Mandrel / Backing bar, Torch									
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015									
Control	Siemens S7-1515									
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel									
Motor	SIEMENS SINAMIC - S210 Servo motor									
Welding Interface	ProfiBus / ProfiNet									
Standard	CE-Mark / UL-prepared									
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid									
Air Supply	6 bar, dry, filtered									
Ambient Temperature	+ 10°C to + 35°C									

* With standard T-Frame Mandrel, smaller diameters possible with round mandrels (option)

Xtra Large in welding automation

High quality and productive longitudinal seam welding requires the use of advanced and superior technologies. This enables us to protect and expand our market position.

Our LINEARWELD X-Series longitudinal seam welding machines offer unsurpassed technology for welding metallic longitudinal seams.



00,50 mm - 15,00 mm



2100 mm - 4100 mm



Outside welding :
225 mm* - 1080 mm**

Inside welding :
from 1600 mm



Stainless Steel | Mild Steel |
Carbon Steel | Galvanized
Steel | Aluminium | Titanium |
Copper



HIGHEST PRECISION FOR PERFECT WELDING

- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
- Quick-change system for the backing track
- Intuitive user interface with clear program management
- High-grade components

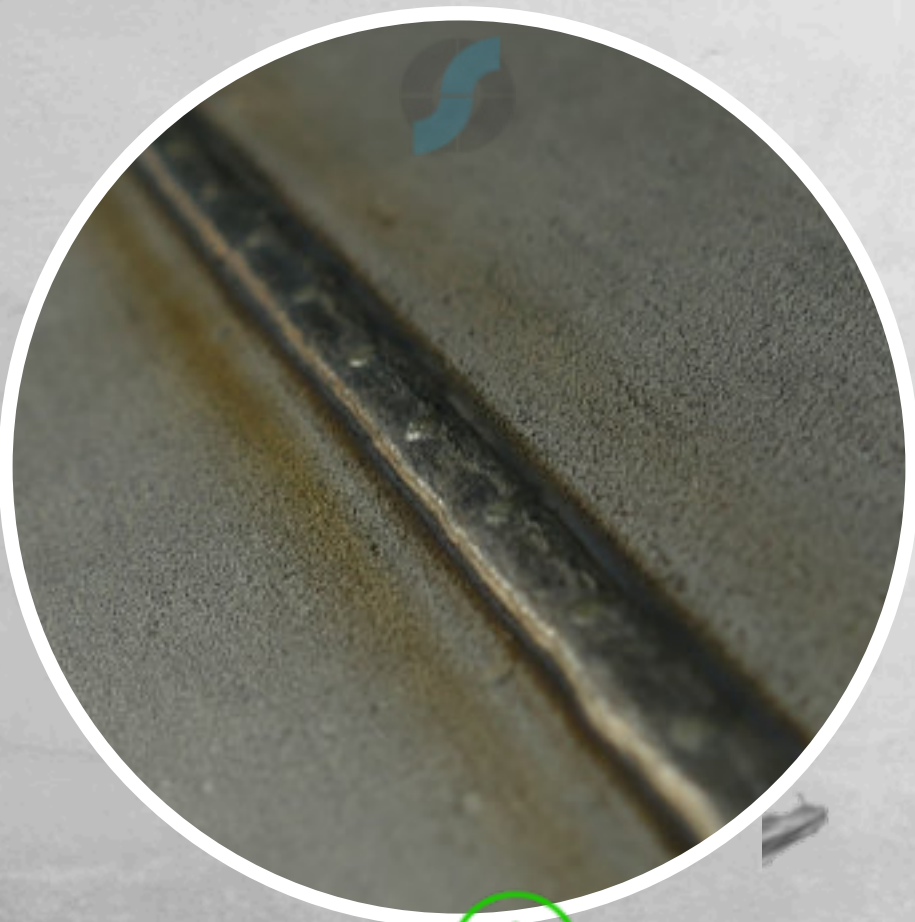


* With standard T-Frame Mandrel, smaller diameters possible with round mandrels (option)

** With standard machine body, bigger diameters possible with hightening elements (option)

Perfect welds from the first part

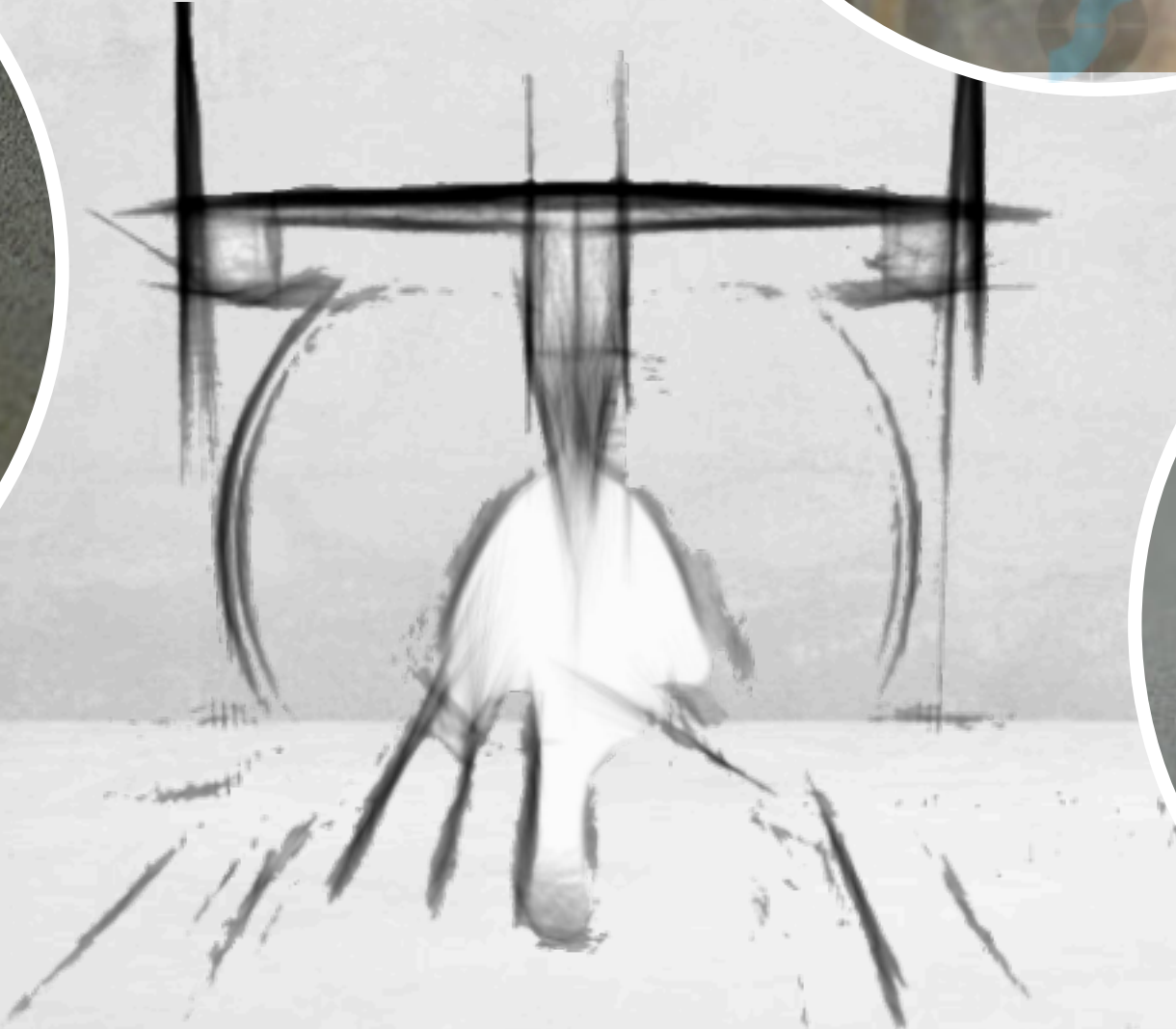
This helps improving the quality of your products as well, particularly if you are interested in a professional design.
The increased quality level of your products strengthens your image, justifies higher prices and thus improves your chances on the market



Stainless Steel Vessel
T: 5,0 mm (welding seam root)
MIG/MAG (GMAW)



Stainless Steel Tank
T: 10 mm
Plasma Keyhole



Stainless Steel vessel
T: 6,0 mm
High Performance TIG (inFocus)

Ready to weld!



Minimal distortion of welded parts



Utilisation of all common welding processes



Wide range of control options



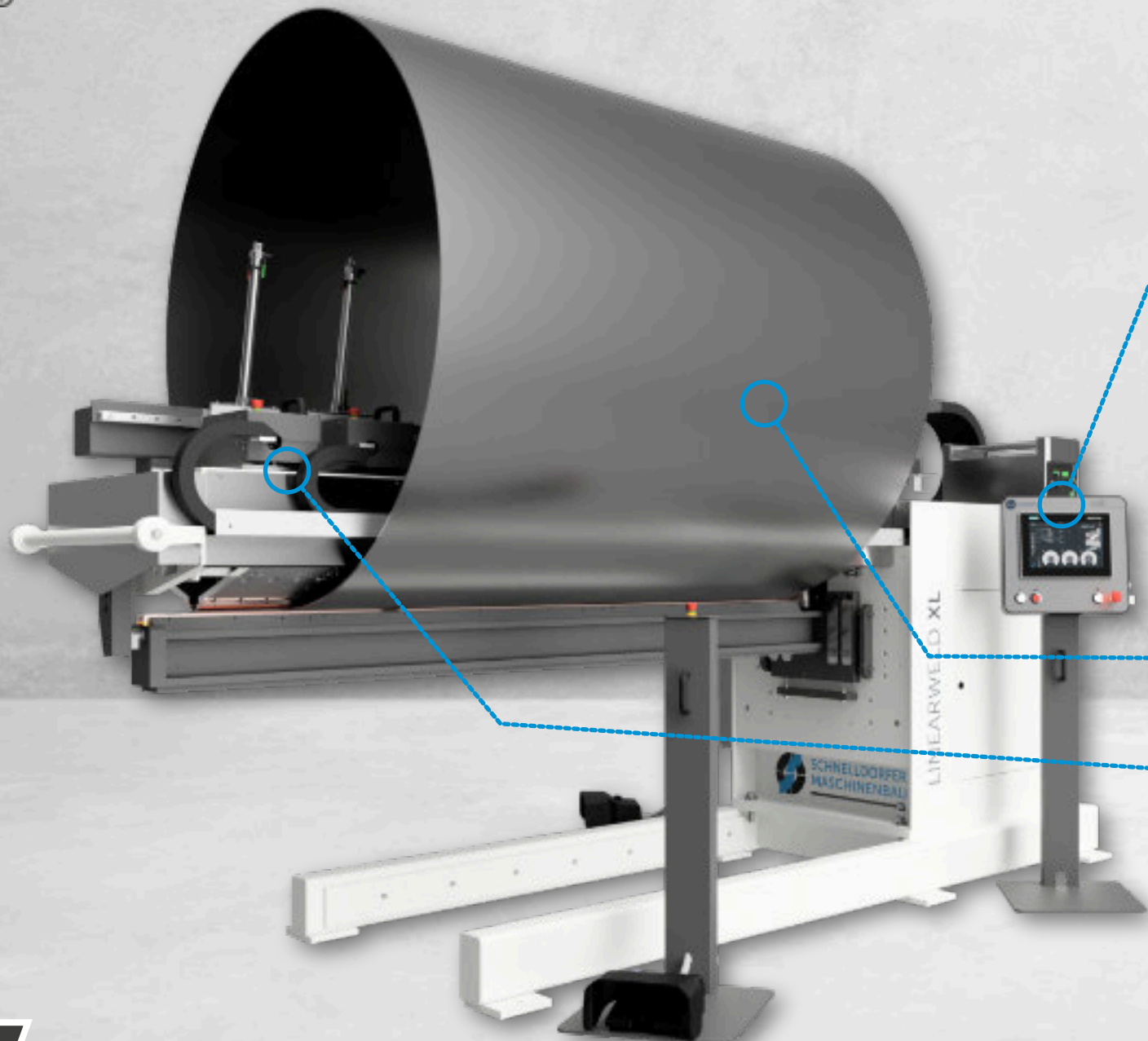
Easy to use



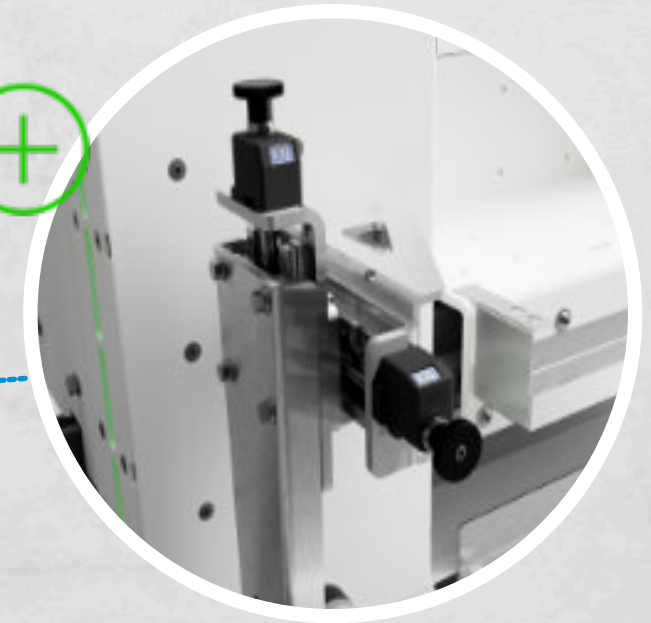
Increased welding speed



Reducing of overall cycle time



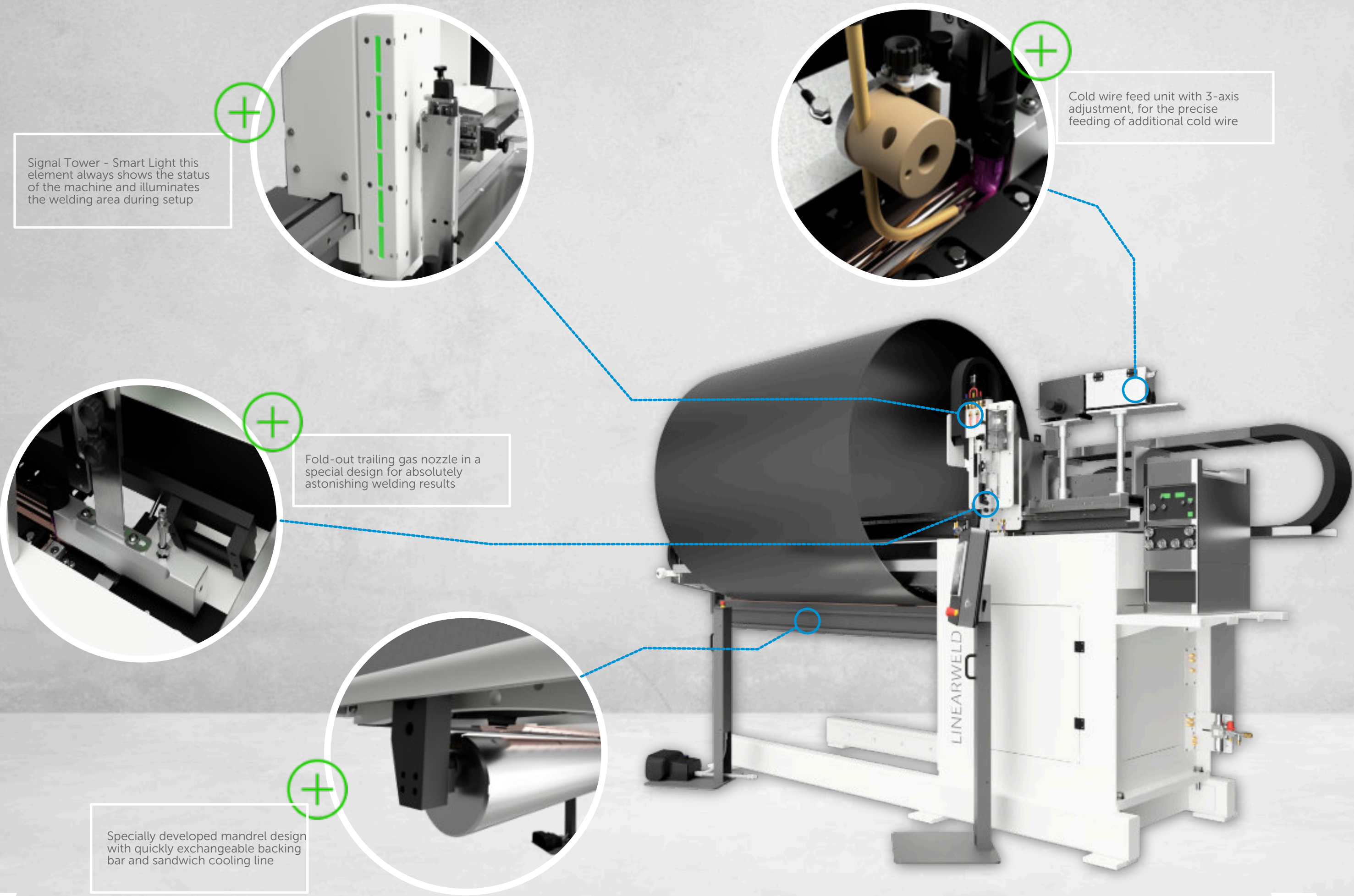
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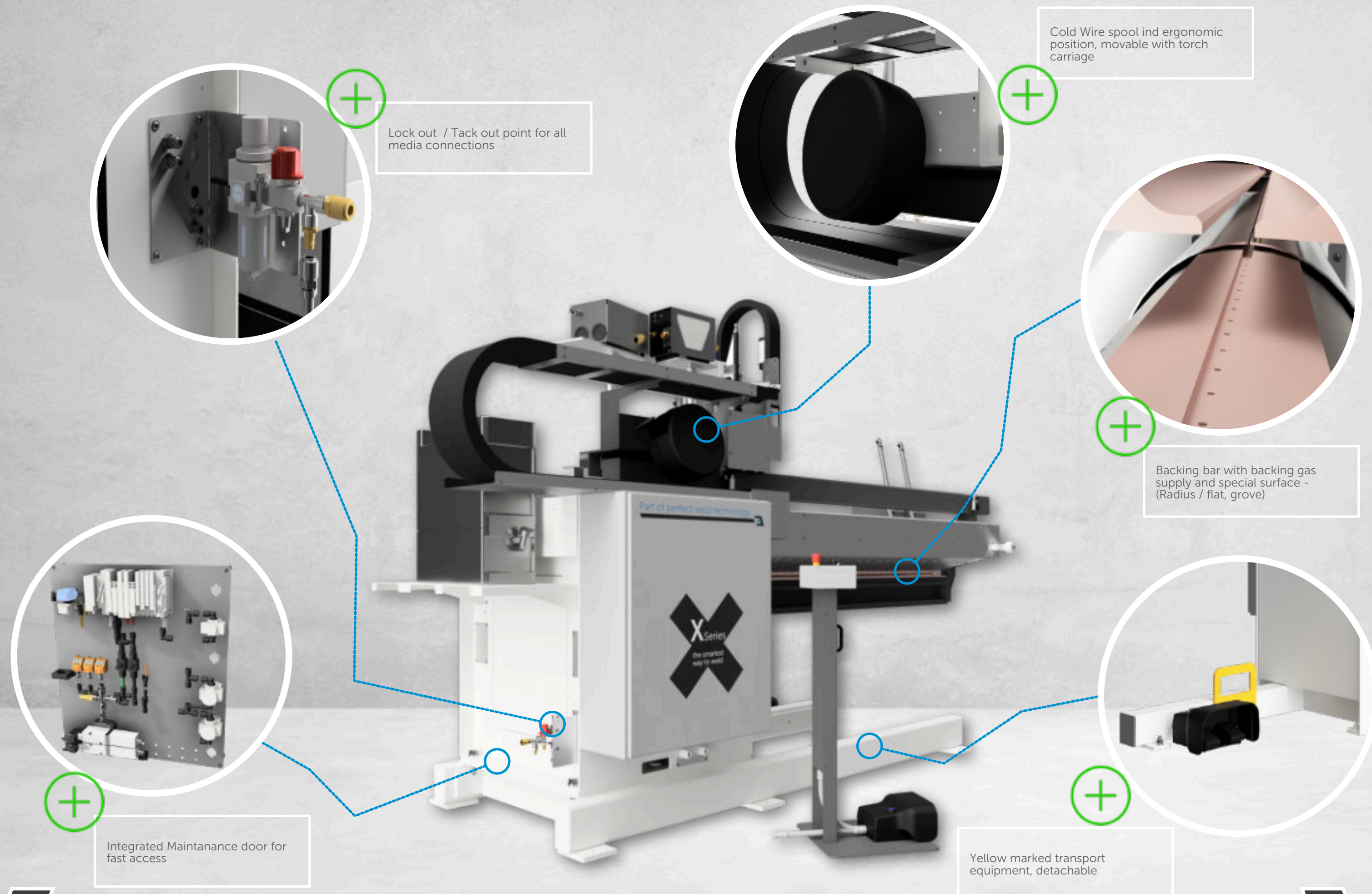


Signal Tower - Smart Light this element always shows the status of the machine and illuminates the welding area during setup

Cold wire feed unit with 3-axis adjustment, for the precise feeding of additional cold wire

Fold-out trailing gas nozzle in a special design for absolutely astonishing welding results

Specially developed mandrel design with quickly exchangeable backing bar and sandwich cooling line



LINEARWELD XL INEX	2100	2600	3100	3600	4100
Max. welding lenght [mm]	2120	2620	3120	3620	4120
Min. Diameter (inside) mm]	225*	260*	305*	355*	385*
Max Diameter (outside) mm]	1050 mm (optional hightening elements . +250 / +500 / +750 / +1000)				
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,				
Material thickness [mm]	00,20 mm - 03,00 mm				
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure				
Clamping system	Pneumatic, Pre-clamp feature				
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)				
Mandrel lock	Pneumatic, position controlled				
Welding process	TIG, High performance TIG, Micro & Softplasma				
Welding direction	free selectable				
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)				
Cooling Circuit	Mandrel / Backing bar, Torch				
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015				
Control	Siemens S7-1515				
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel				
Motor	SIEMENS SINAMIC - S210 Servo motor				
Welding Interface	ProfiBus / ProfiNet				
Standard	CE-Mark / UL-prepared				
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid				
Air Supply	6 bar, dry, filtered				
Ambient Temperature	+ 10°C to + 35°C				

* With standard T-Frame Mandrel, smaller diameters possible with round mandrels (option)

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	00,50 mm - 15,00 mm
	1600 mm - 4100 mm
	145 mm - 5190 mm*
	Stainless Steel Mild Steel Carbon Steel Galvanized Steel Aluminium Titanium Copper

+ HIGHEST PRECISION FOR PERFECT WELDING

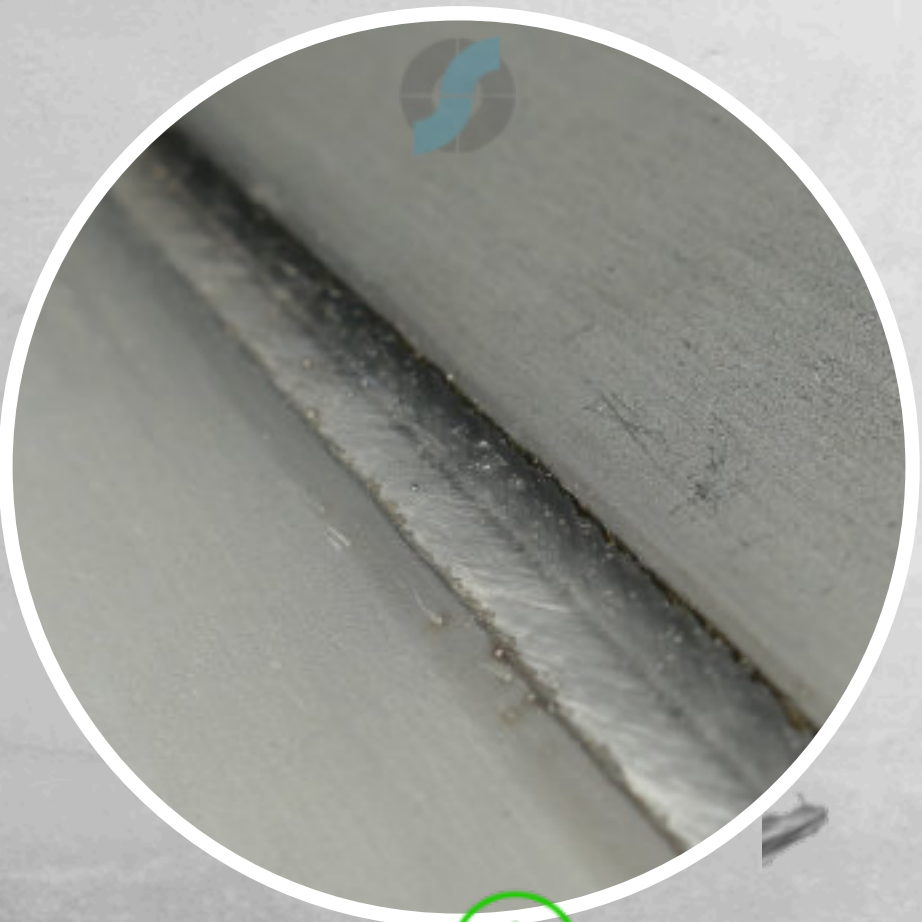
- Ergonomic design
- Weld seams with no discolouration
- Welding without deformation of the workpiece
- High reproducibility
- Precise torch motion
- Highest quality welding results
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Perfect welds from the first part

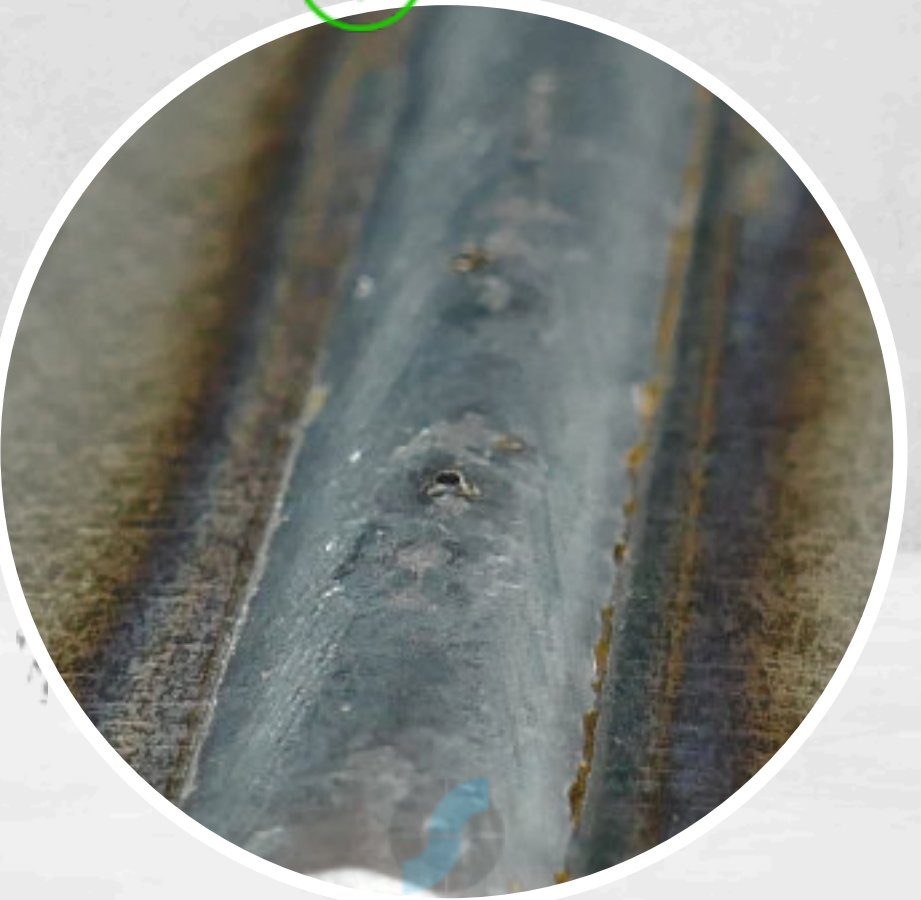
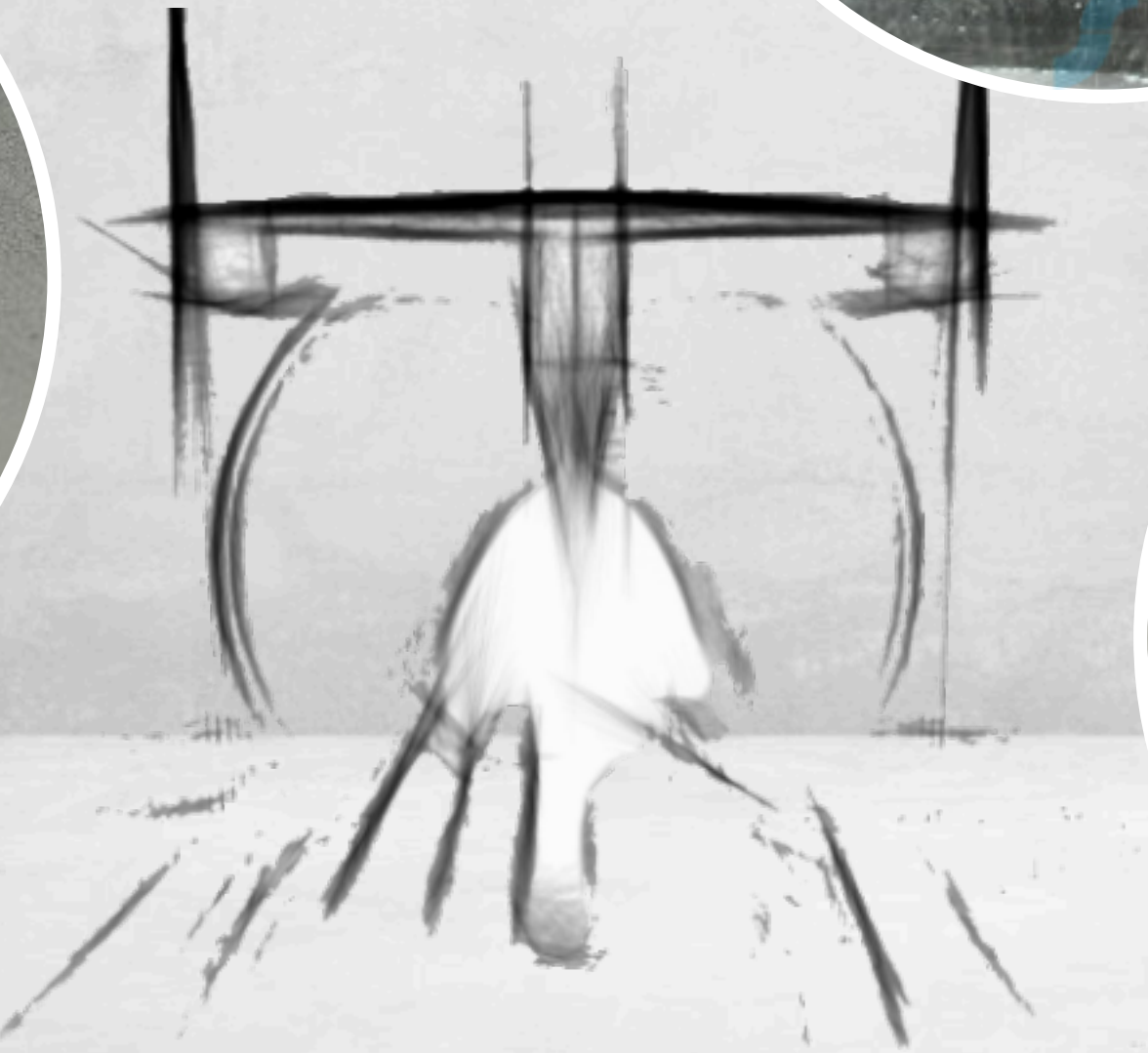
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Stainless Steel vessel
T: 5,0 mm
MIG/MAG (GMAW)



Stainless Steel Tank
T: 10,0 mm
Plasma Keyhole



Mild Steel vessel
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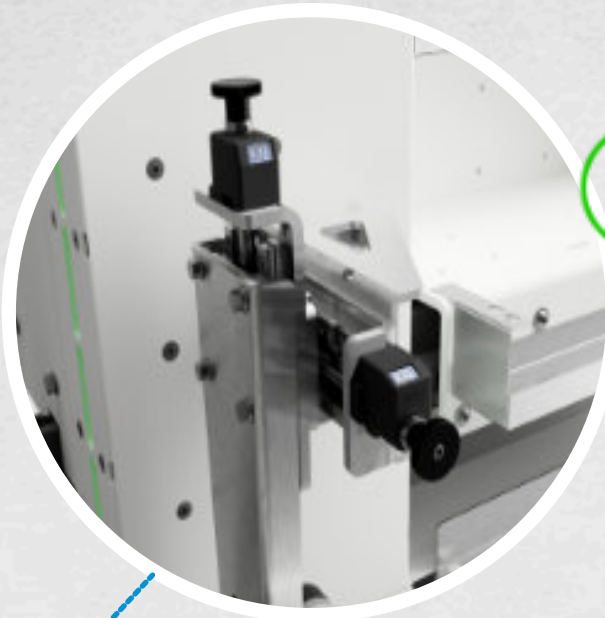
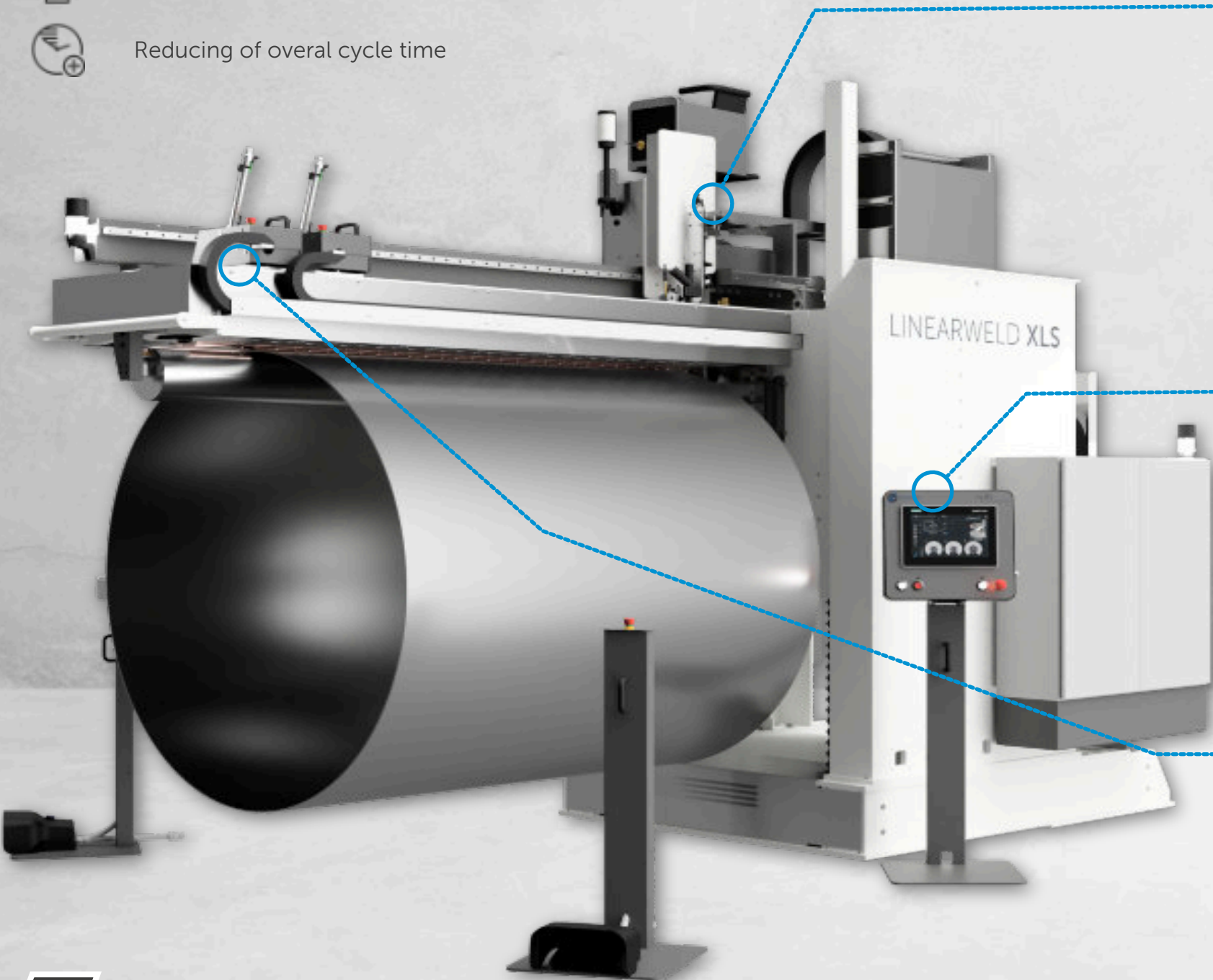
Easy to use



Increased welding speed



Reducing of overall cycle time



Torch support with counter in combination with Touch & Signal software function makes tungsten setting 100% reliable and easy

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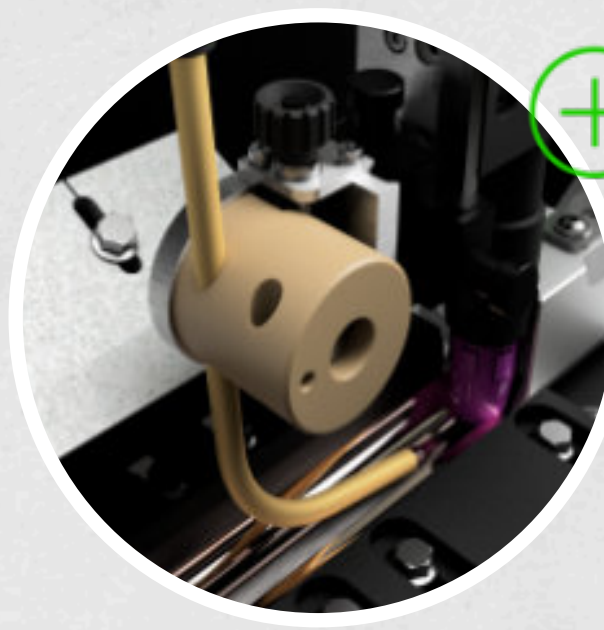


High precision center stop and pre clamp function, for the fastest and most comfortable insertion of the parts

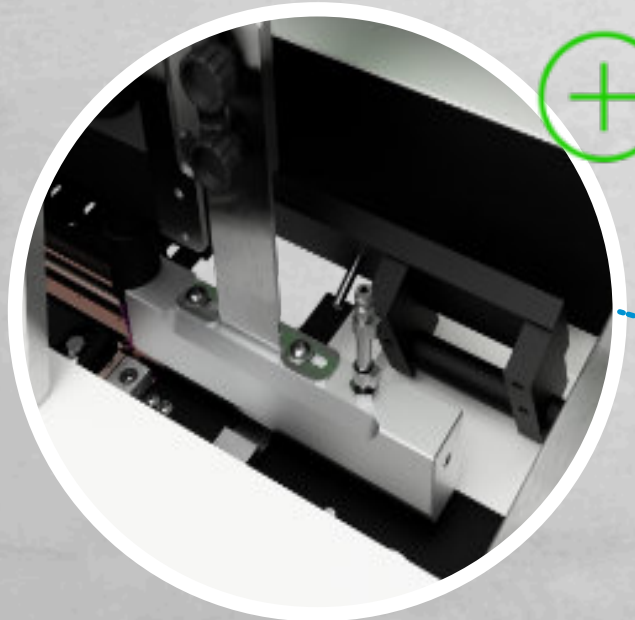
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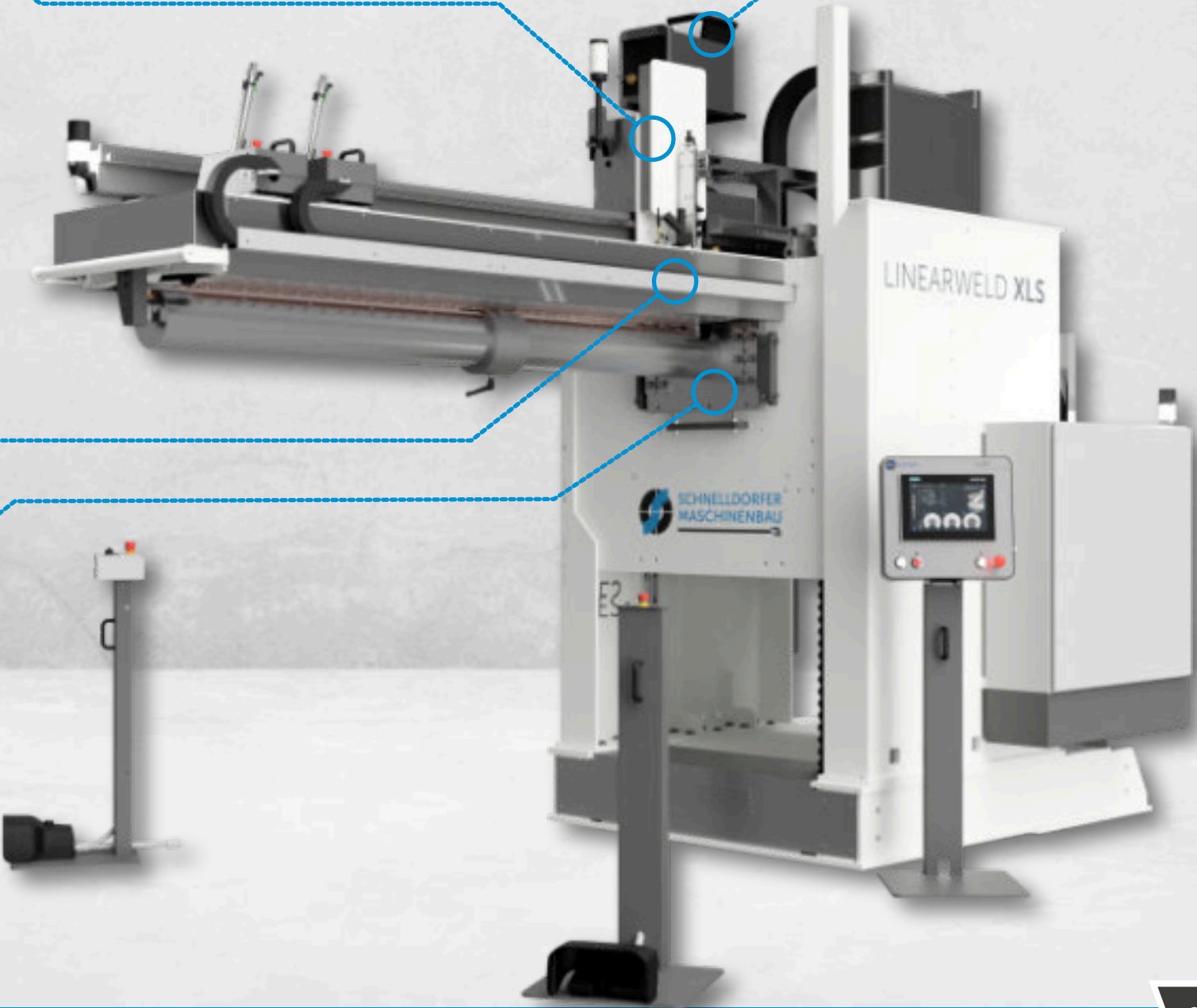
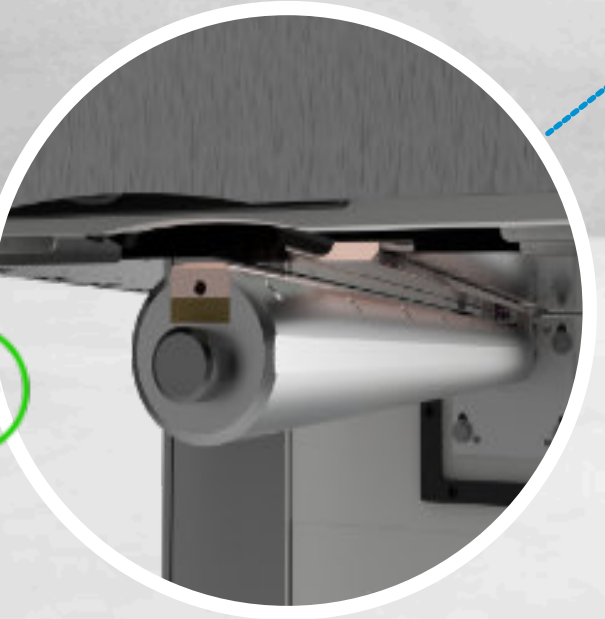
Cold wire feed unit with 3-axis adjustment, for the precise feeding of additional cold wire

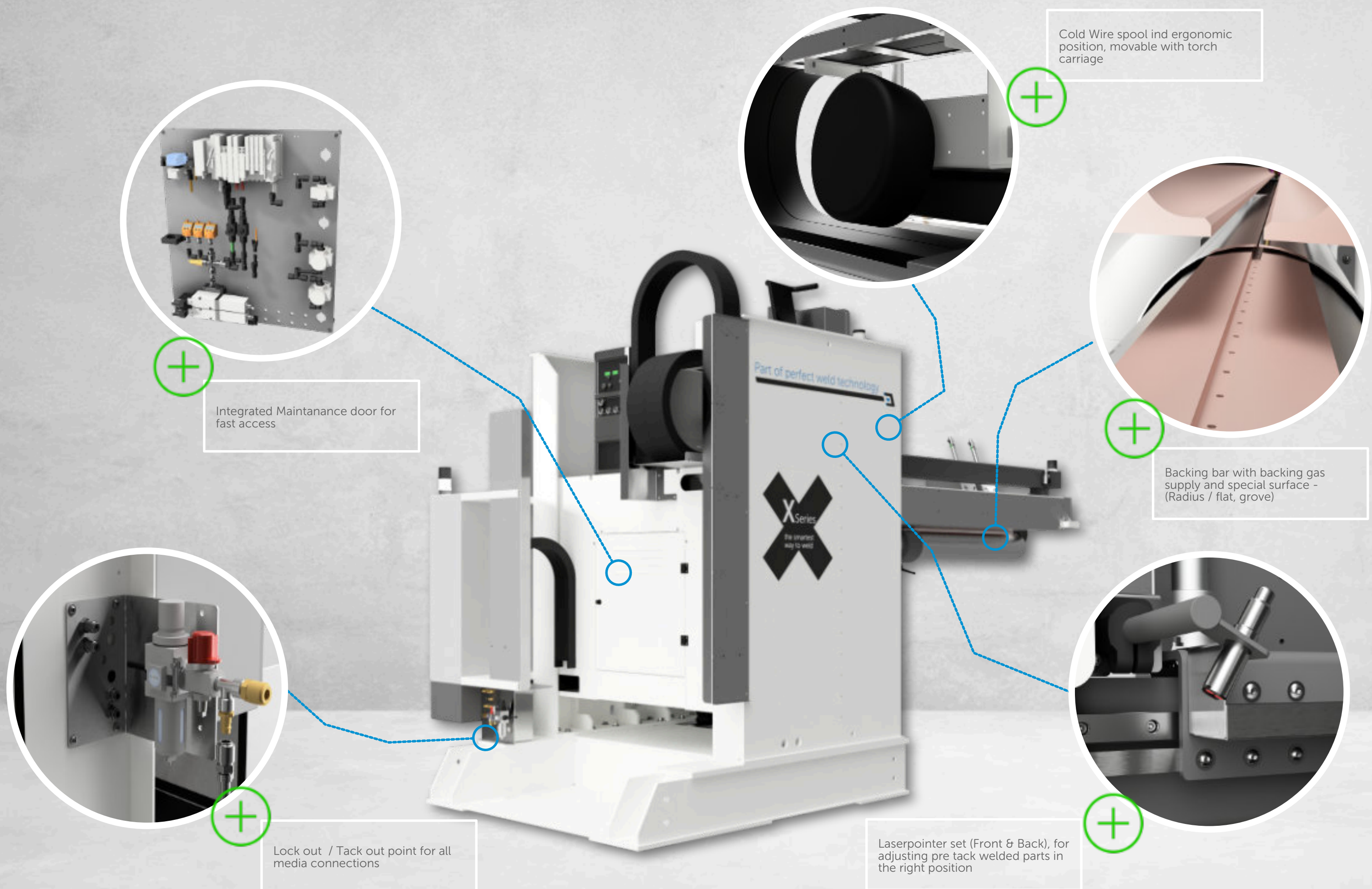


Fold-out trailing gas nozzle in a special design for absolutely astonishing welding results



Specially developed mandrel design with quickly exchangeable backing bar and sandwich cooling line





Integrated Maintenance door for fast access



Cold Wire spool in ergonomic position, movable with torch carriage



Backing bar with backing gas supply and special surface - (Radius / flat, groove)



Laserpointer set (Front & Back), for adjusting pre tack welded parts in the right position



Lock out / Tack out point for all media connections

LINEARWELD XLS EXTL	1600	2100	2600	3100	3600	4100
Max. welding lenght [mm]	1620	2120	2620	3120	3620	4120
Min. Diameter (inside) mm]	145	225*	260*	305*	355*	385*
Max Diameter (outside) mm]	1605 / 2105 / 2605 / 3190 / 4190 / 5190					
Material type	Stainless Steel, Mild Steel, Carbon Steel, Galvanized Steel, Aluminium, Titanium,					
Material thickness [mm]	00,50 mm - 15,00 mm					
Backing bar	Sandwich technology, changable without any media connection, fast exchange fixure					
Clamping system	Pneumatic, Pre-clamp feature					
Arc Length	Constant , over whole welding length (tolerances of 0,05 mm)					
Mandrel lock	Pneumatic, position controlled					
Welding process	TIG, High performance TIG, Micro & Softplasma					
Welding direction	free selectable					
Gas	Torch Gas, Backing Gas, Trailing Gas, Clamping finger gas (option)					
Cooling Circuit	Mandrel / Backing bar, Torch					
Colour	Traffic White - RAL 9016 (powder coated, matt, structure) & Slate Grey - RAL 7015					
Control	Siemens S7-1515					
Operator Panel	SIEMENS SINAMIC - Unified Comfort Panel					
Motor	SIEMENS SINAMIC - S210 Servo motor					
Welding Interface	ProfiBus / ProfiNet					
Standard	CE-Mark / UL-prepared					
Electric Supply	400/230 Volt / 3 / N / PE; 50/60 Hz; TN-grid					
Air Supply	6 bar, dry, filtered					
Ambient Temperature	+ 10°C to + 35°C					

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00,50 mm - 15,00 mm



2100 mm - 4100 mm



225 mm - 5190 mm



Stainless Steel | Mild Steel |
Carbon Steel | Galvanized
Steel | Aluminium | Titanium |
Copper



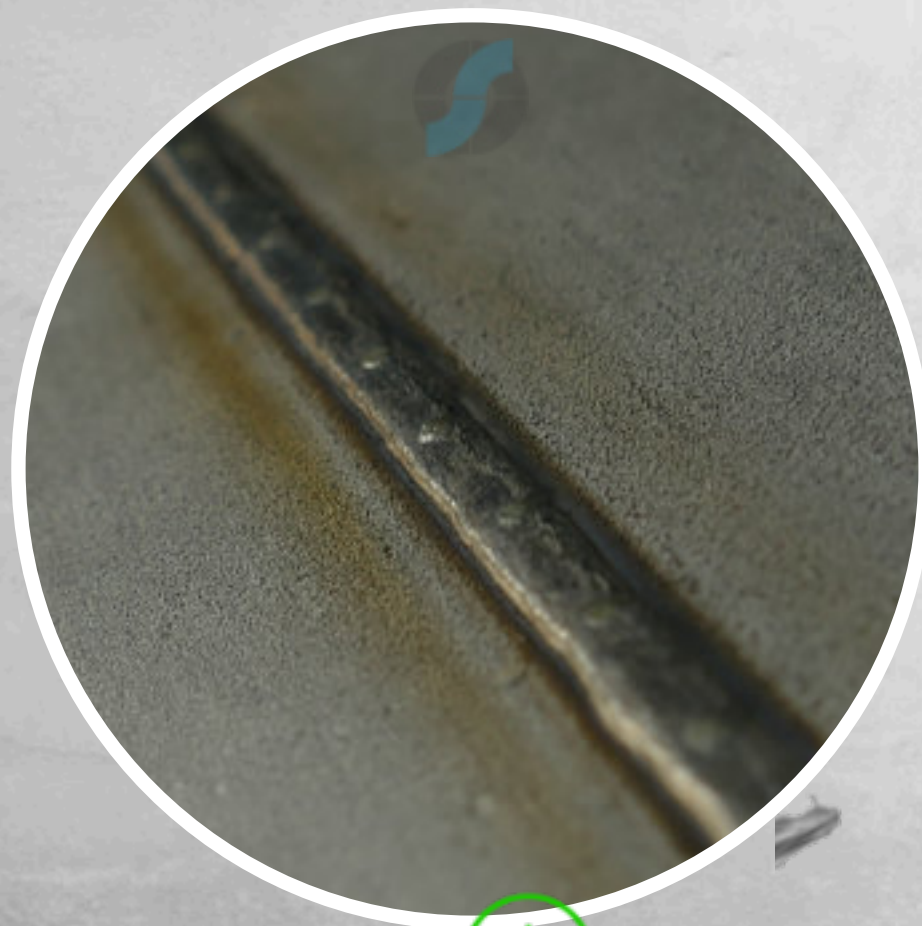
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- Ergonomic design
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Perfect welds from the first part

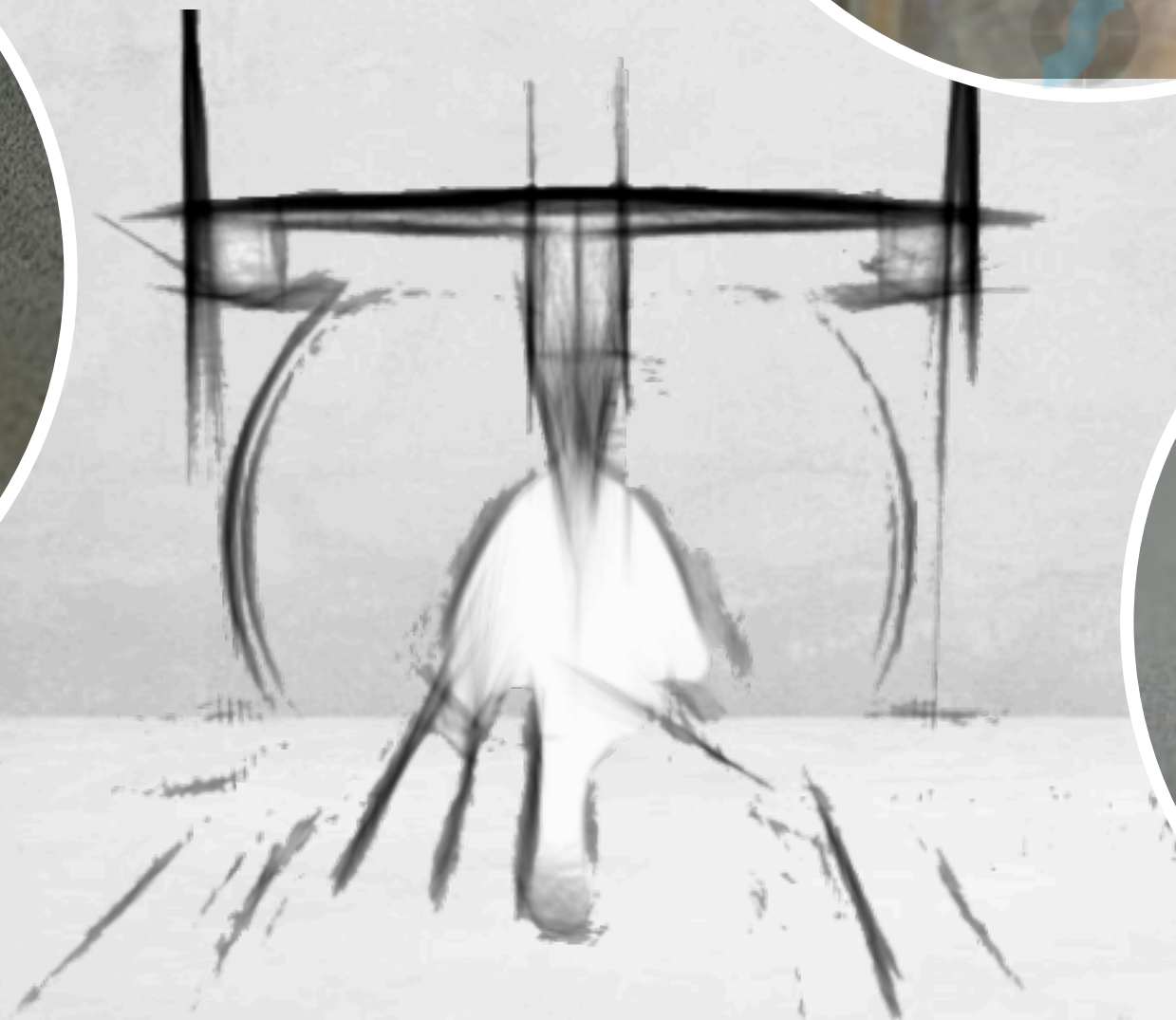
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T: 5,0 mm (welding seam root)
MIG/MAG (GMAW)



Stainless Steel Tank
T: 10 mm
Plasma Keyhole



Stainless Steel vessel
T: 6,0 mm
High Performance TIG (inFocus)

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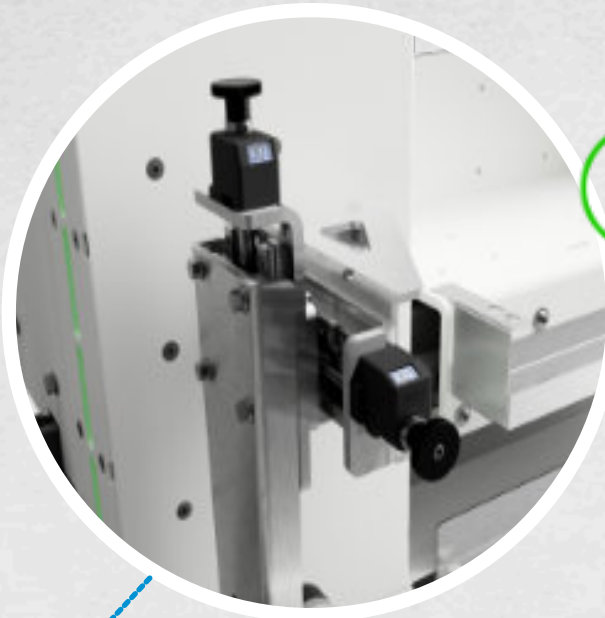
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Increased welding speed



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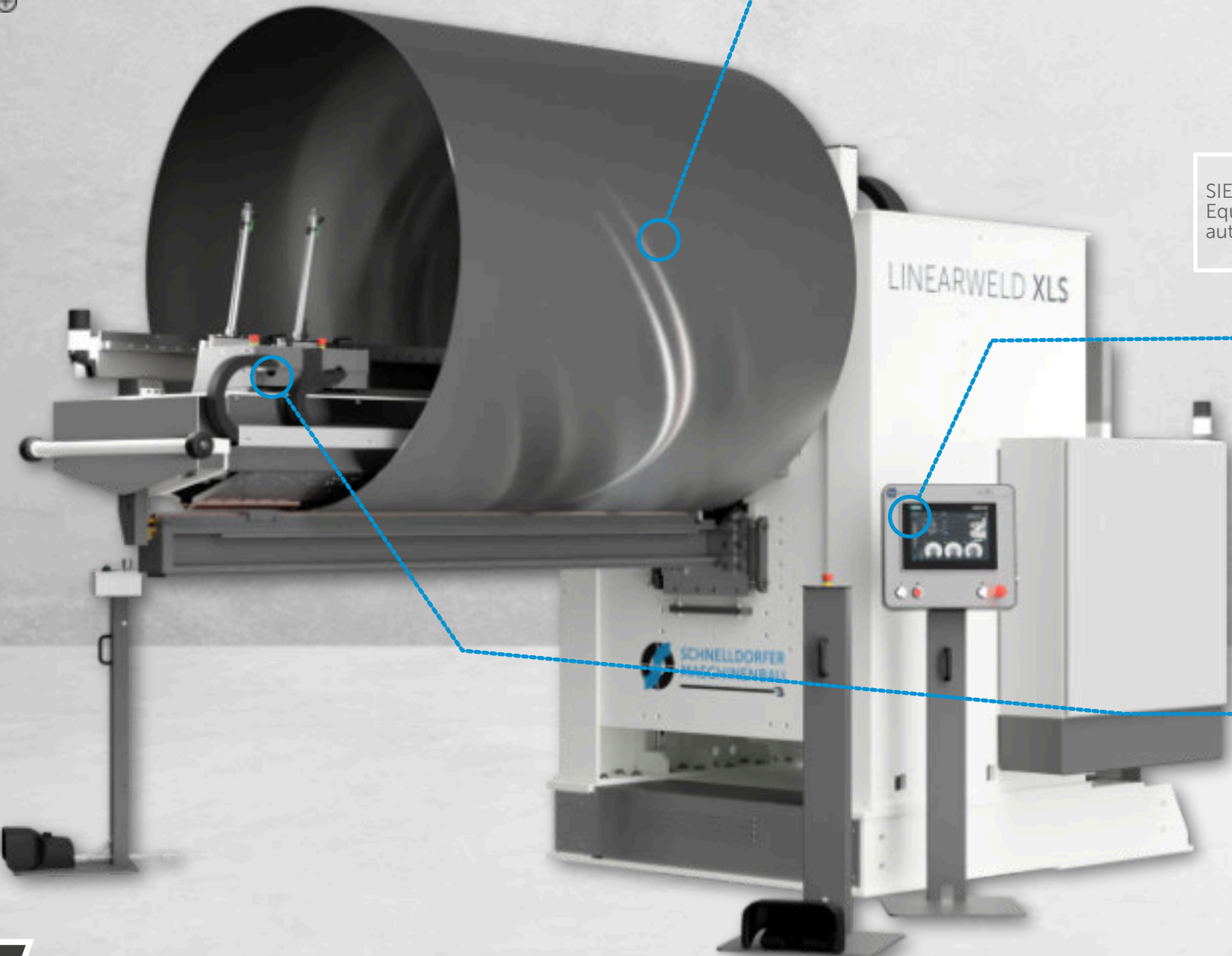
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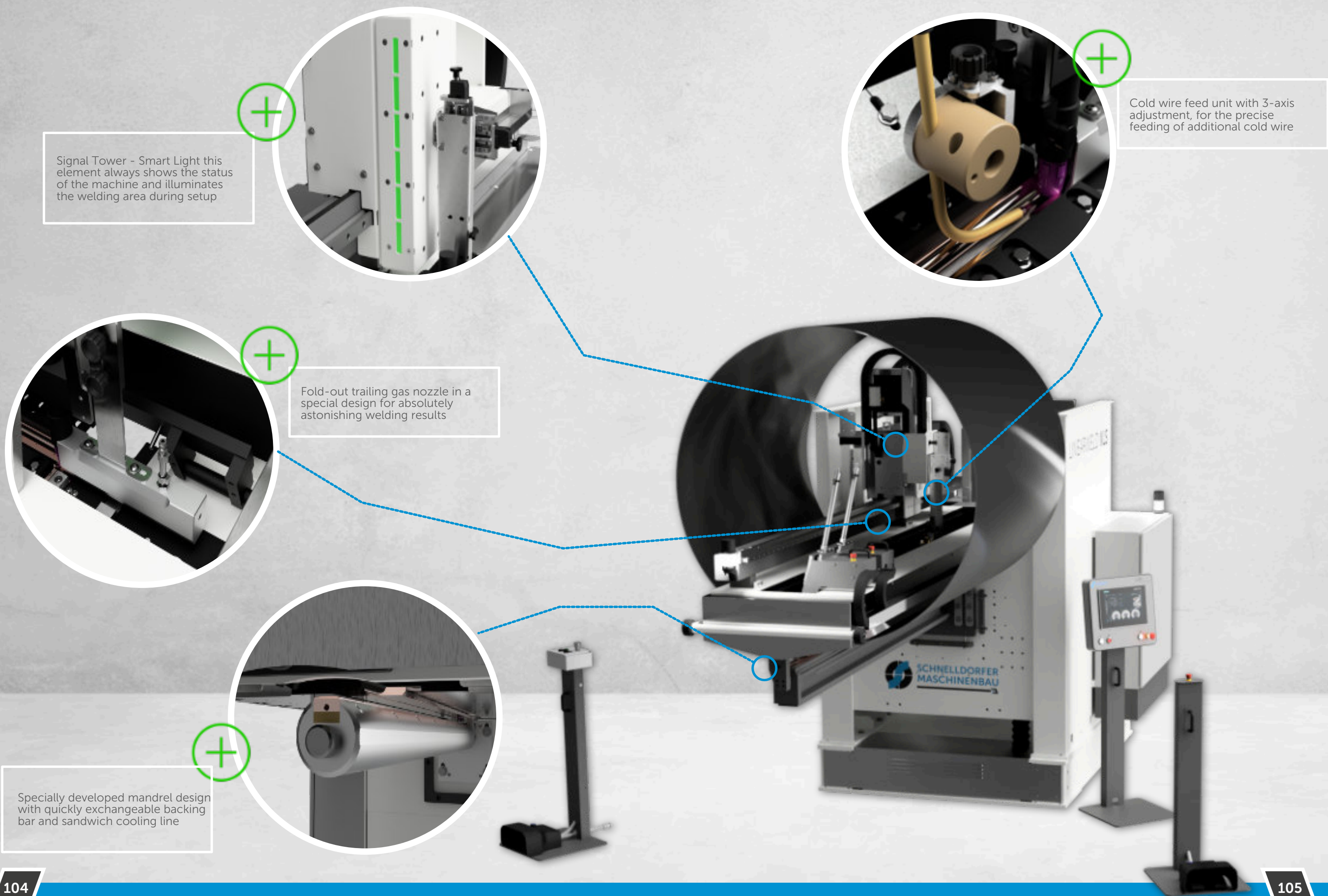


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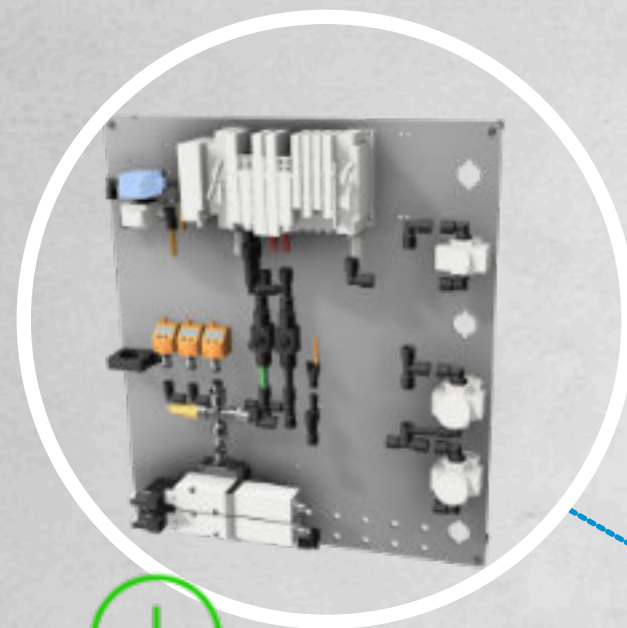


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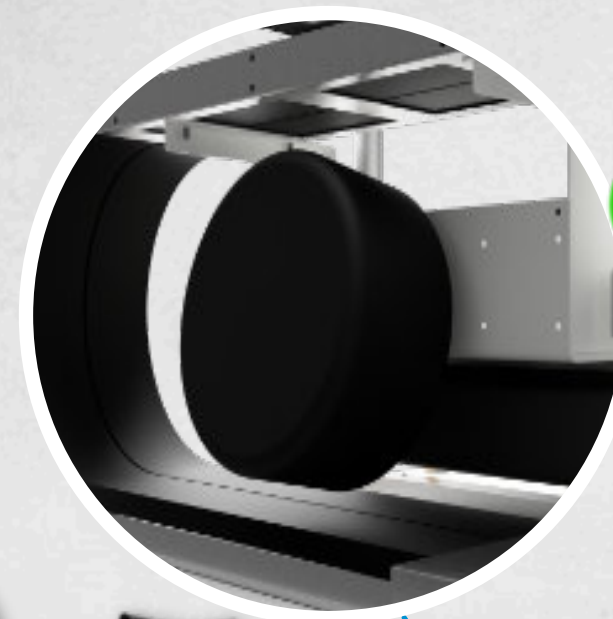
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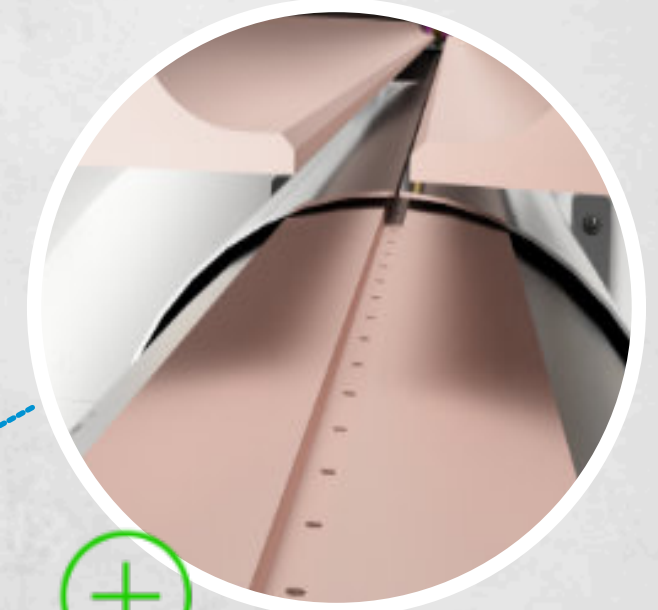
Specially developed mandrel design with quickly exchangeable backing bar and sandwich cooling line



Integrated Maintenance door for fast access



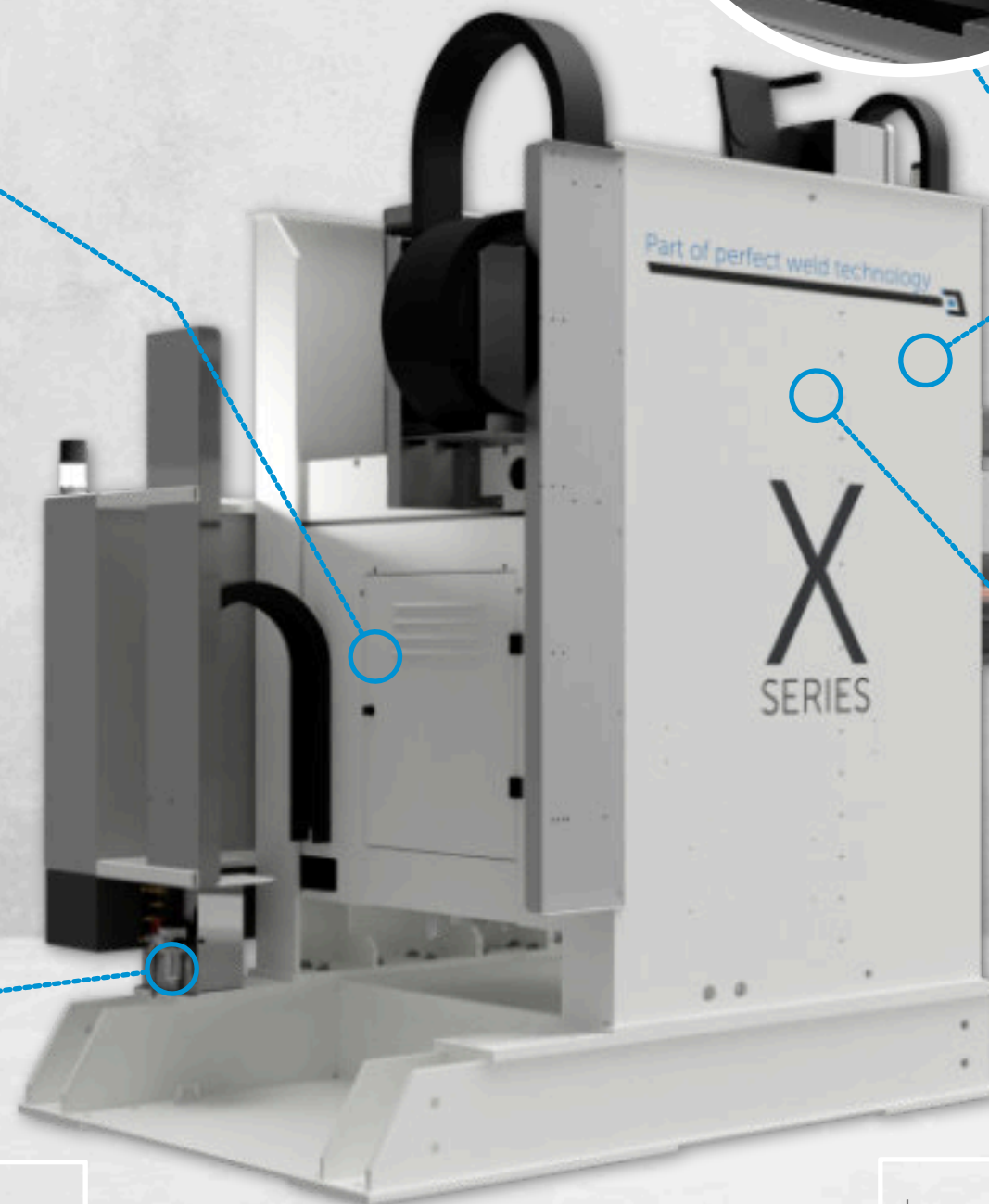
Cold Wire spool in ergonomic position, movable with torch carriage



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Min. Diameter (inside) mm]	225*	260*	305*	355*	385*
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Welding Interface	ProfiBus / ProfiNet				
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Aerospace- and Bellow industry



WITZENMANN

senior
FLEXONICS

Tank and Equipment manufacturing

Barth + Höpfinger
Apparate- Behälter- Anlagenbau

BANDELIN



HAVC industry



HOBATHERM®



Food technology and kitchen makers

BLANCO

B/S/H/

FRANKE

GAGGENAU

Automotive industry

BASTUCK®

bosal



Other industries



stengel

Miele



X SERIES



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info@schnelldorfer-maschinenbau.de | +49 (0) 7950 9889 - 0



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