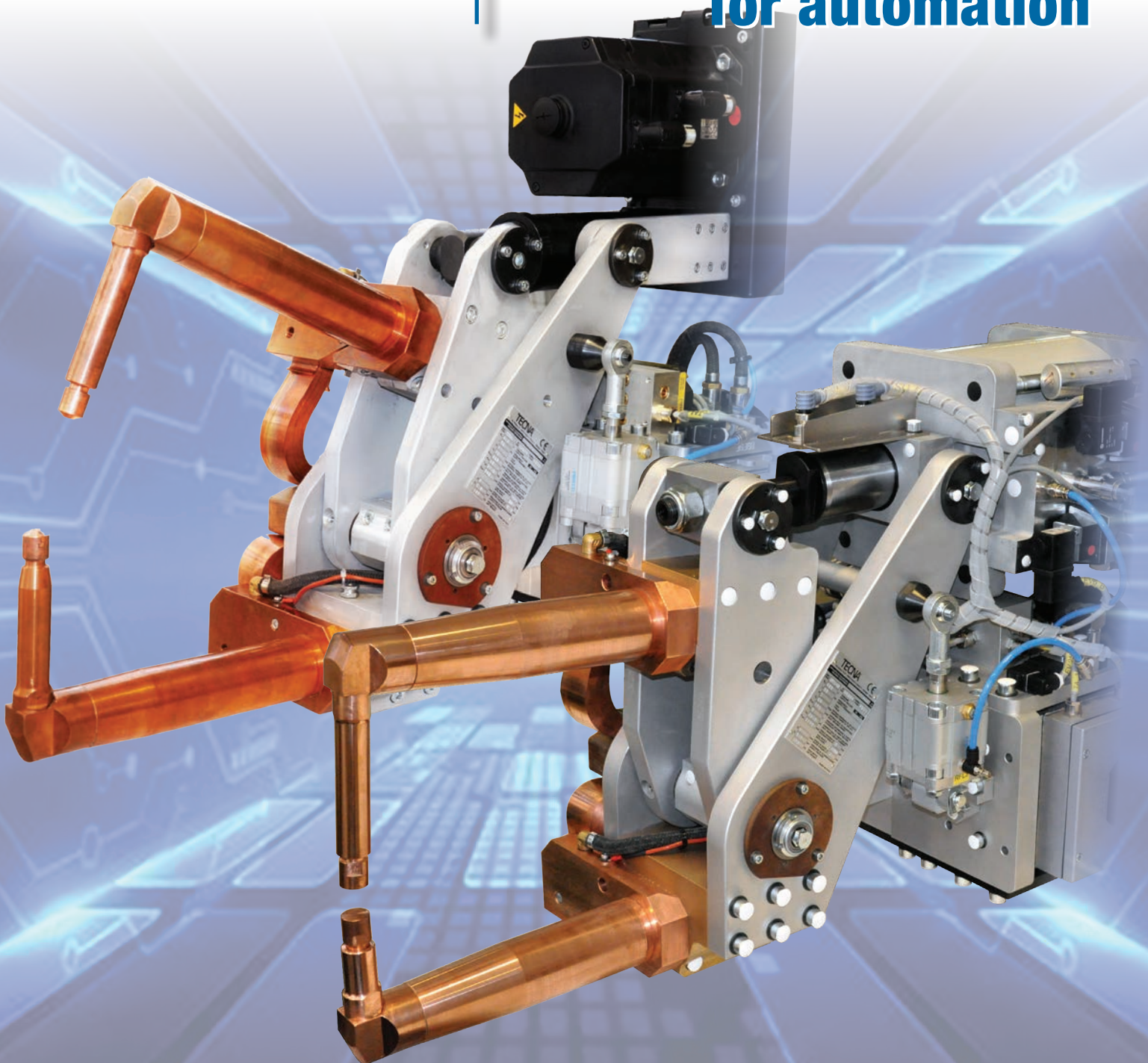


TECNA[®]

Resistance Welding Systems & Balancers

**spot welding solutions
for automation**

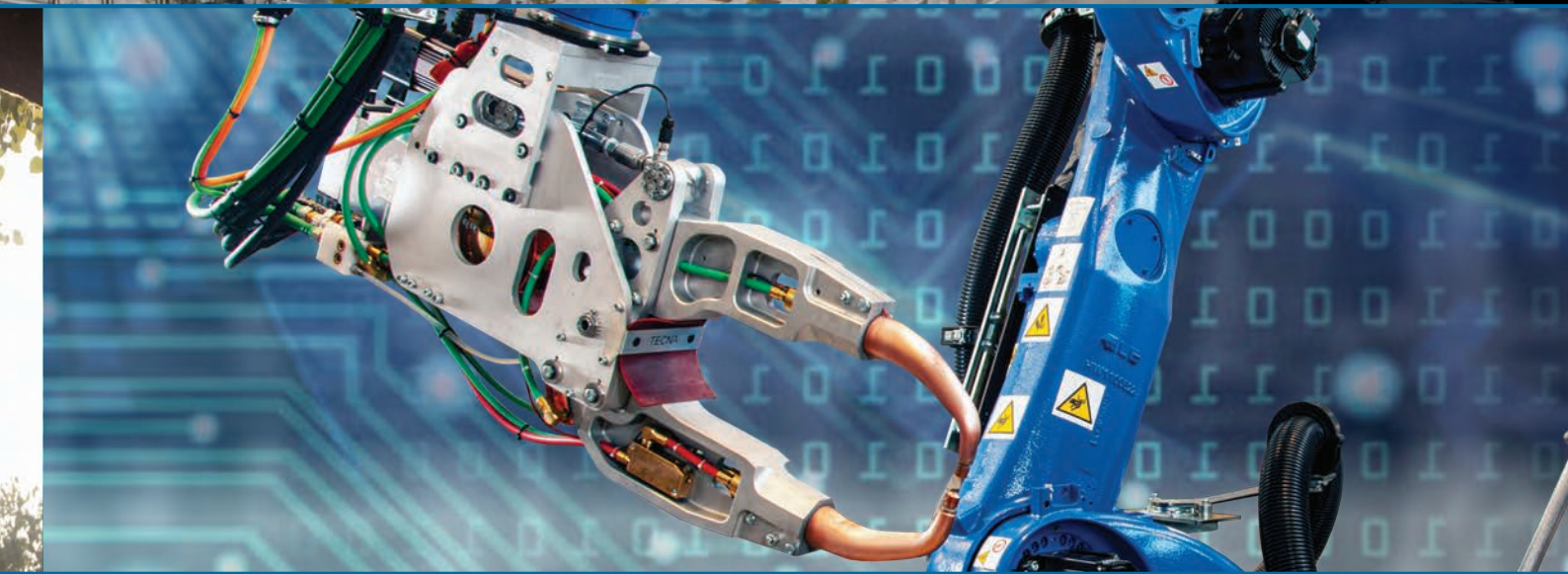


www.tecna.net



TECNA S.P.A. - VIA MEUCCI, 27 - CASTEL SAN PIETRO TERME





TECNA: Excellence in Resistance Welding

TECNA means Excellence. Since its foundation over 50 years ago, TECNA has grown as a **worldwide leading reference in resistance welding and spring balancers.**

At our headquarters in Castel San Pietro Terme, Italy, our passion for technology joins **assiduous work for continuous development and innovation.**

With decades of experience, TECNA is a trusted supplier of major players in the automotive and aerospace industries and all fields where resistance welding sees its application. **TECNA welders are approved and certified by top car manufacturers worldwide.**

ISO 9001 and ISO 14001 certifications, as well as strict quality checks and tests, define the procedures and guarantee that product quality and safety are maintained at the highest levels. Every machine is duly tested and certified before shipping.

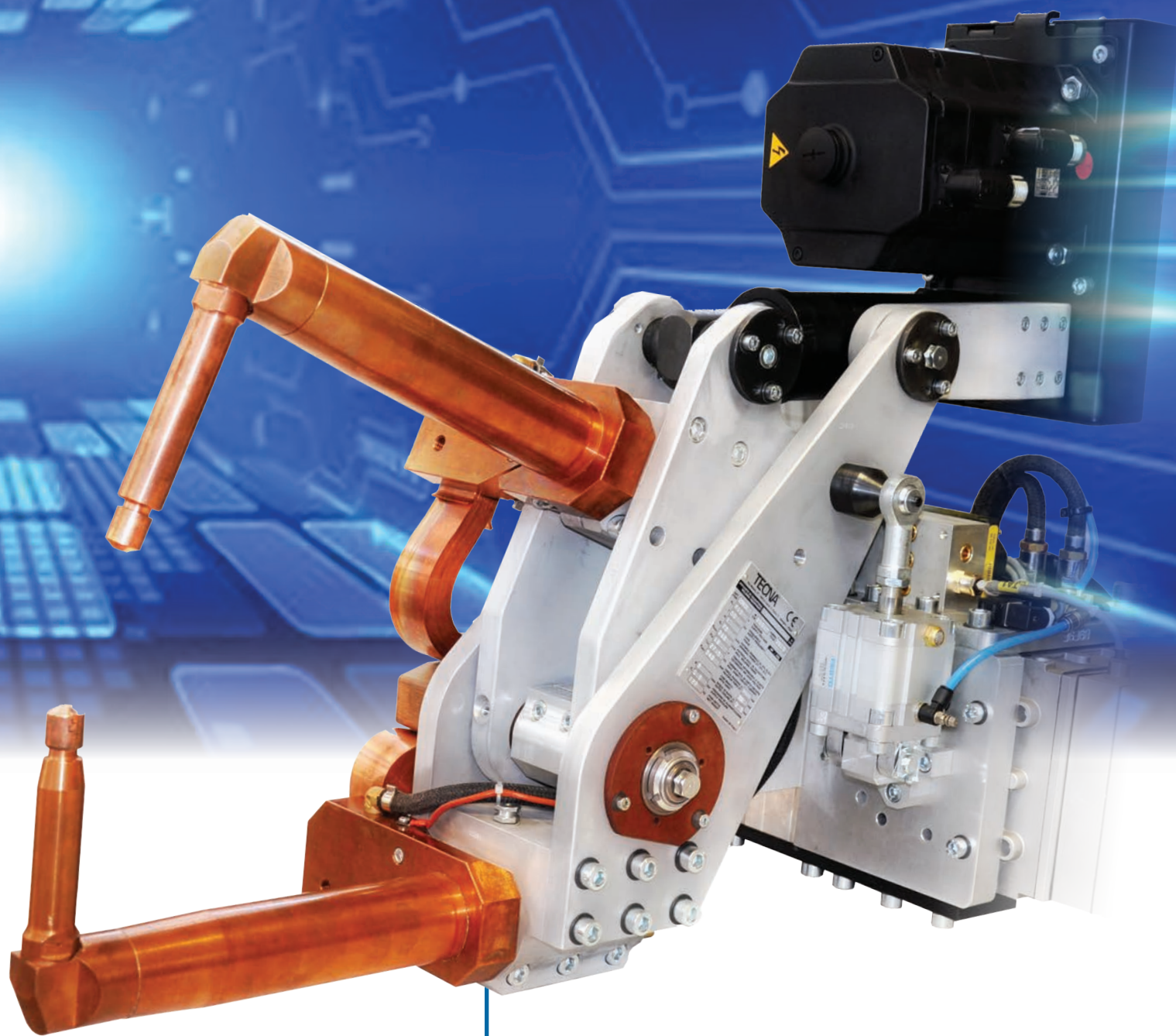
TECNA offers the widest range of welding machines and equipment, from single-phase and three-phase to the latest cutting-edge inverter and hybrid capacitor discharge technologies. Our products obtain **the highest quality welds and guarantee the best performance in terms of energy efficiency.**

Additionally, TECNA provides customers with a **comprehensive line of accessories for resistance welding equipment.** From the most advanced measurement instruments to the latest digital welding control technologies, all accessories feature advanced functions of networking and automatic file export to analyze and store test results.



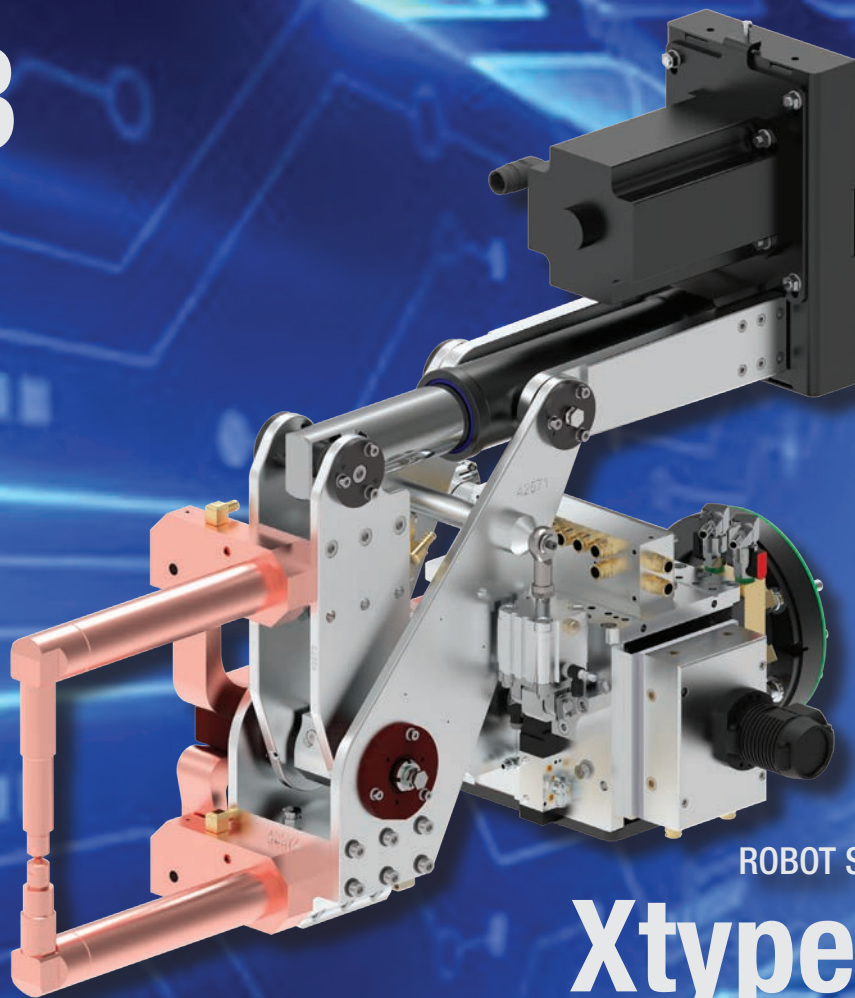
TECNA also manufactures specialized equipment for automotive body welding and repair. All systems come with next-generation welding controls and energy-efficient inverter technology. To experience the greatest synergy between man and machine we especially recommend the Smart Mode, where ease of use joins a fully automatic self-learning system. The operator does not even need to know what metal or thickness she or he is welding.

The field of resistance welding is constantly evolving with demands of quality, and most important of control around the process. TECNA keeps evolving with it, and by DNA runs ahead **to anticipate needs and create new trends thanks to the continuous research & development.**



**belt driven servomotor
spot welding gun**

2923



ROBOT SPOT WELDING GUN

Xtype-light

BELT DRIVEN TECNA AND SERVOMOTOR OF ROBOT MANUFACTURER

electrical data

Type	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	90
No load secondary voltage, V	9.9
Thermal current, kA	6.1
Short circuit current, kA	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes	6 Nm			
Welding force, daN	Arm code [length]		Arm code [length]	
	4921 [300 mm]	509	4925 [500 mm]	339
	4922 [350 mm]	453	4926 [600 mm]	290
	4923 [400 mm]	407	4927 [700 mm]	254
	4924 [450 mm]	371		
**Gun mass, kg (Arm length 300 mm)	95			
Gun water cooling, l/min	15			

motor

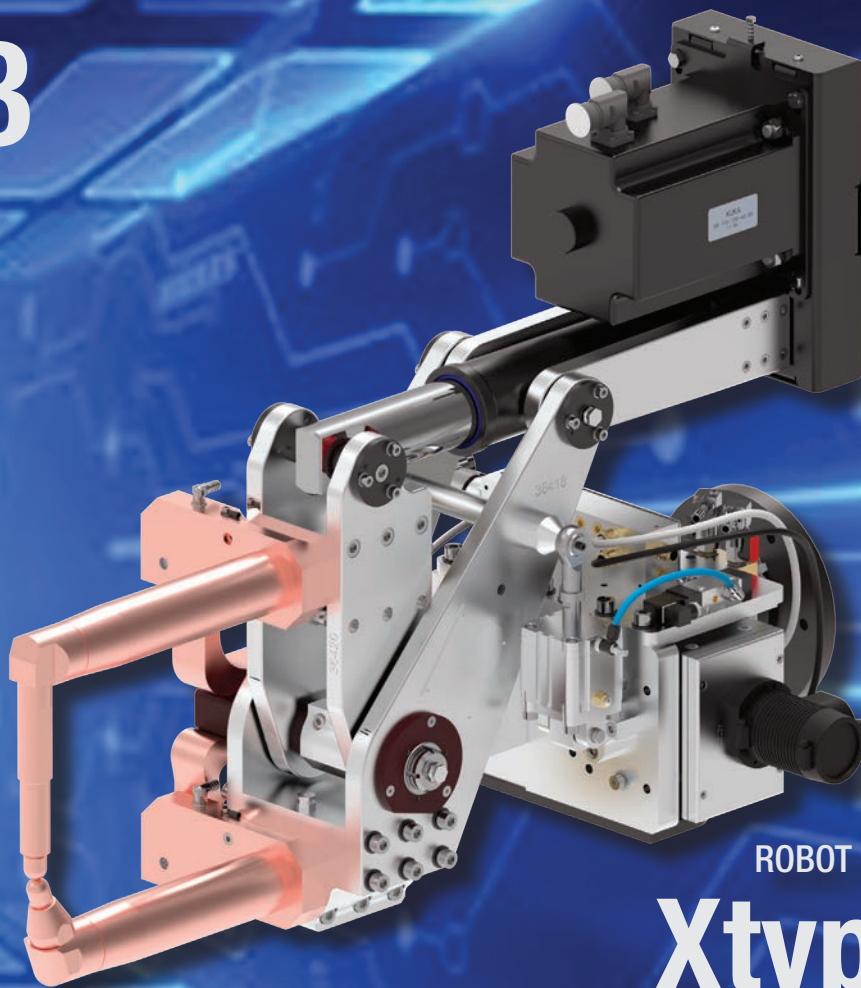
Servomotor speed, rpm	3000
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transformer

Type	MFDC 90 kVA [40090]
weight, kg	24,5
water cooling, l/min	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer and servomotor 6Kg.

2903



ROBOT SPOT WELDING GUN

Xtype-std

BELT DRIVEN TECNA AND SERVOMOTOR OF ROBOT MANUFACTURER

electrical data

Type	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	90
No load secondary voltage, V	9.9
Thermal current, kA	6.1
Short circuit current, kA	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes		11 Nm		
Welding force, daN	Arm code [length]		Arm code [length]	
	4901 [300 mm]	939	4905 [500 mm]	625
	4902 [350 mm]	834	4906 [600 mm]	535
	4903 [400 mm]	750	4907 [700 mm]	468
	4904 [450 mm]	682		
**Gun mass, kg (Arm length 300 mm)		95		
Gun water cooling, l/min		15		

motor

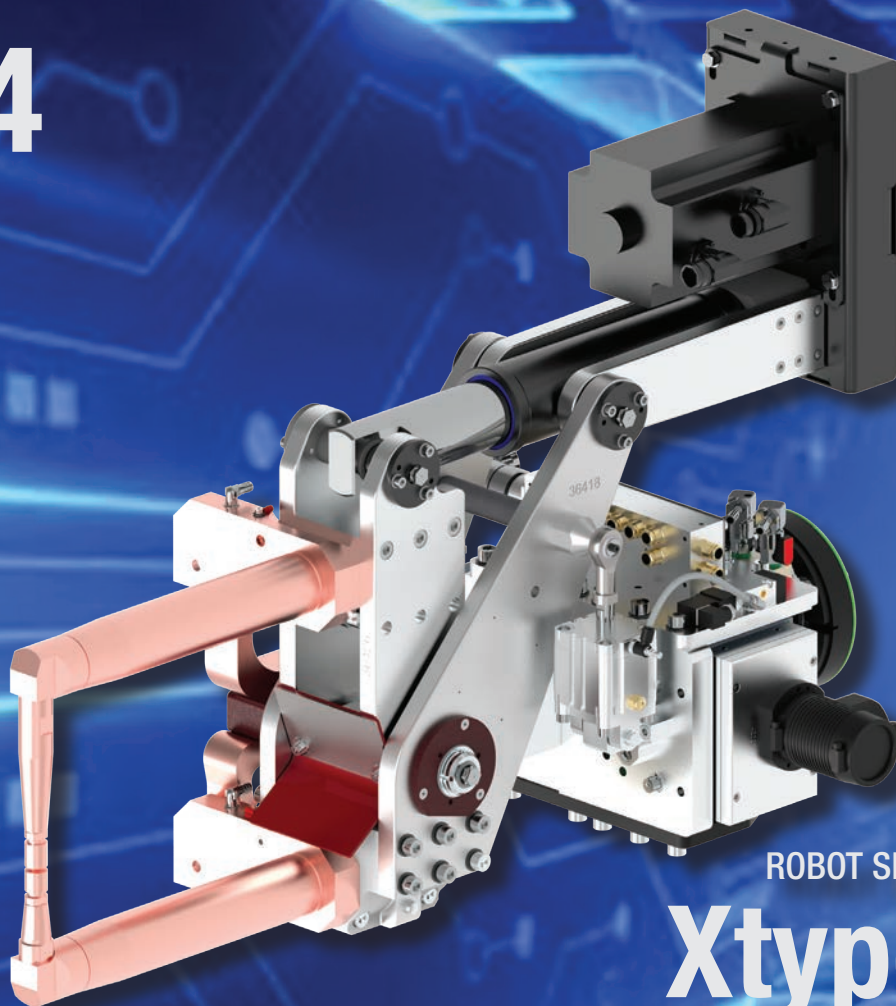
Servomotor speed, rpm	3000
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transformer

Type	MFDC 90 kVA [40090]
weight, kg	24,5
water cooling, l/min	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer and servomotor 13,7Kg.

2904



ROBOT SPOT WELDING GUN

Xtype-std

BELT DRIVEN TECNA AND SERVOMOTOR OF ROBOT MANUFACTURER

electrical data

Type	*MFDC 56 kVA [39965]
Nominal power at 50%, kVA	56
No load secondary voltage, V	8.4
Thermal current, kA	4.9
Short circuit current, kA	25

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes	6 Nm			
Welding force, daN	Arm code [length]		Arm code [length]	
	4901 [300 mm]	509	4905 [500 mm]	339
	4902 [350 mm]	453	4906 [600 mm]	290
	4903 [400 mm]	407	4907 [700 mm]	254
	4904 [450 mm]	371		
**Gun mass, kg (Arm length 300 mm)	88			
Gun water cooling, l/min	15			

motor

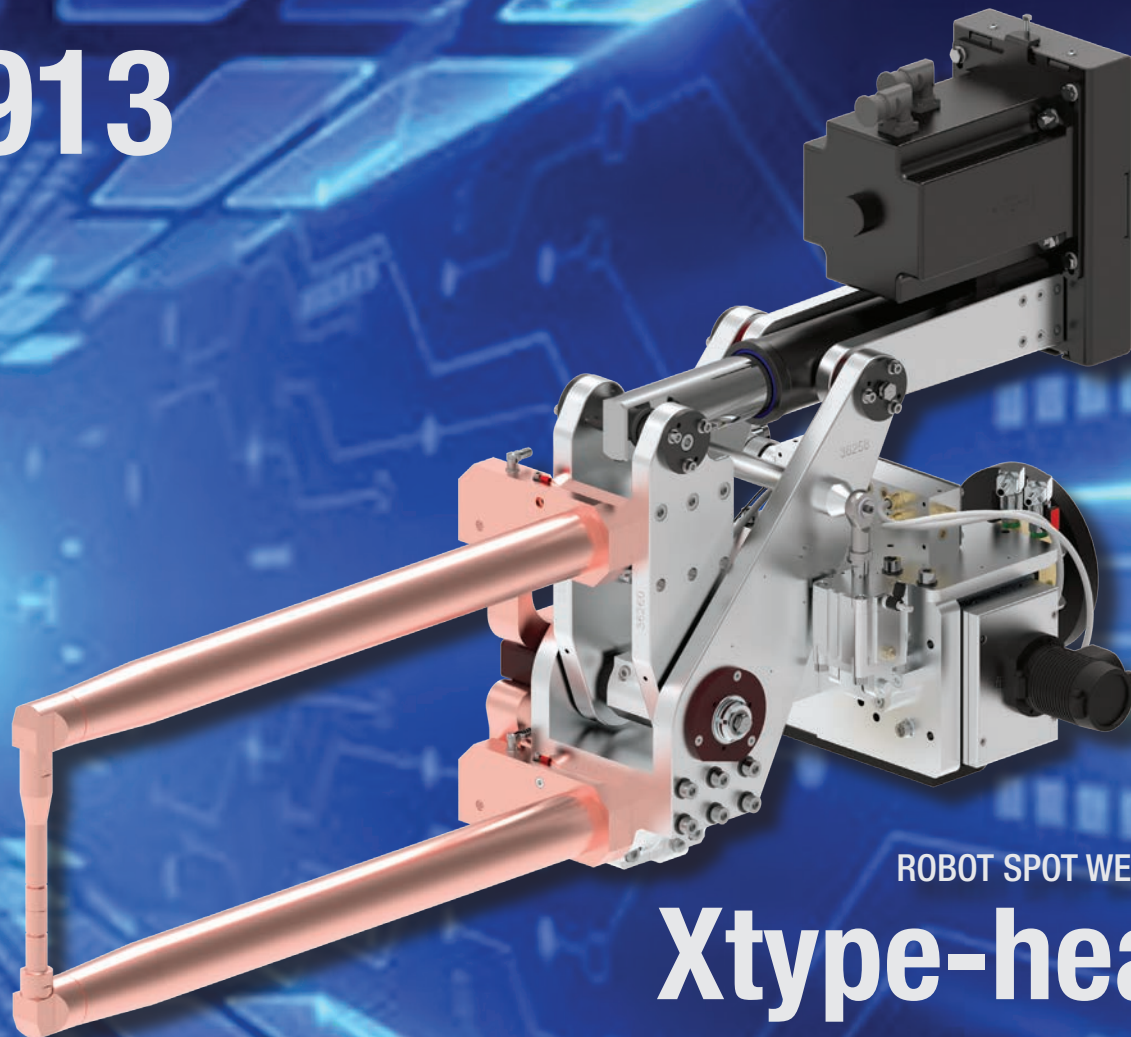
Servomotor speed, rpm	3000
-----------------------	------

transformer

Type	MFDC 56 kVA [39965]
weight, kg	16
water cooling, l/min	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer and servomotor 6Kg.

2913



ROBOT SPOT WELDING GUN

Xtype-heavy

BELT DRIVEN TECNA AND SERVOMOTOR OF ROBOT MANUFACTURER

electrical data

Type	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	90
No load secondary voltage, V	9.9
Thermal current, kA	6.1
Short circuit current, kA	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes	11 Nm			
Welding force, daN	Arm code [length]		Arm code [length]	
	4921 [300 mm]	509	4925 [500 mm]	339
	4922 [350 mm]	453	4926 [600 mm]	290
	4923 [400 mm]	407	4927 [700 mm]	254
	4924 [450 mm]	371		
**Gun mass, kg (Arm length 300 mm)	95			
Gun water cooling, l/min	15			

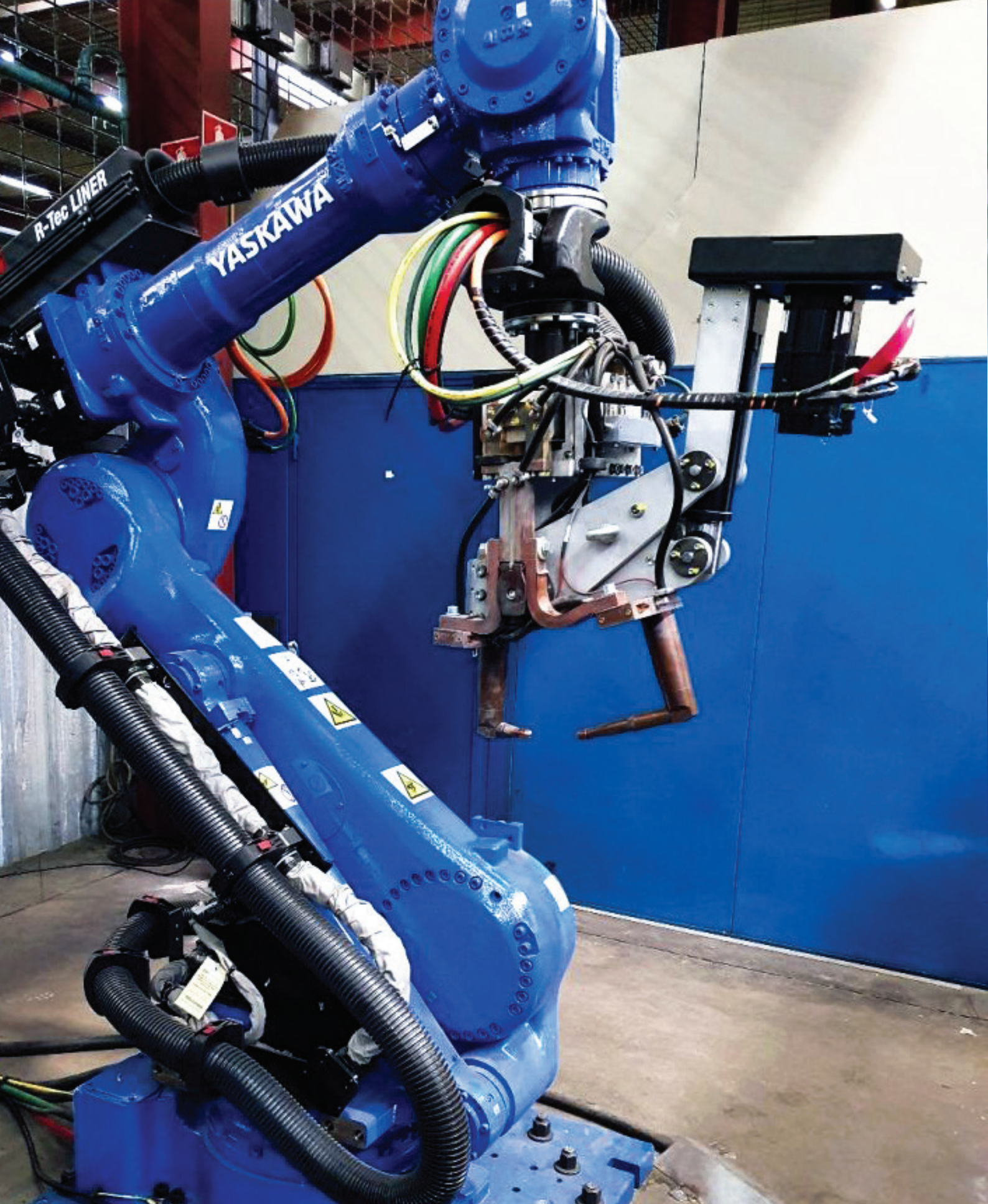
motor

Servomotor speed, rpm	3000
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transformer

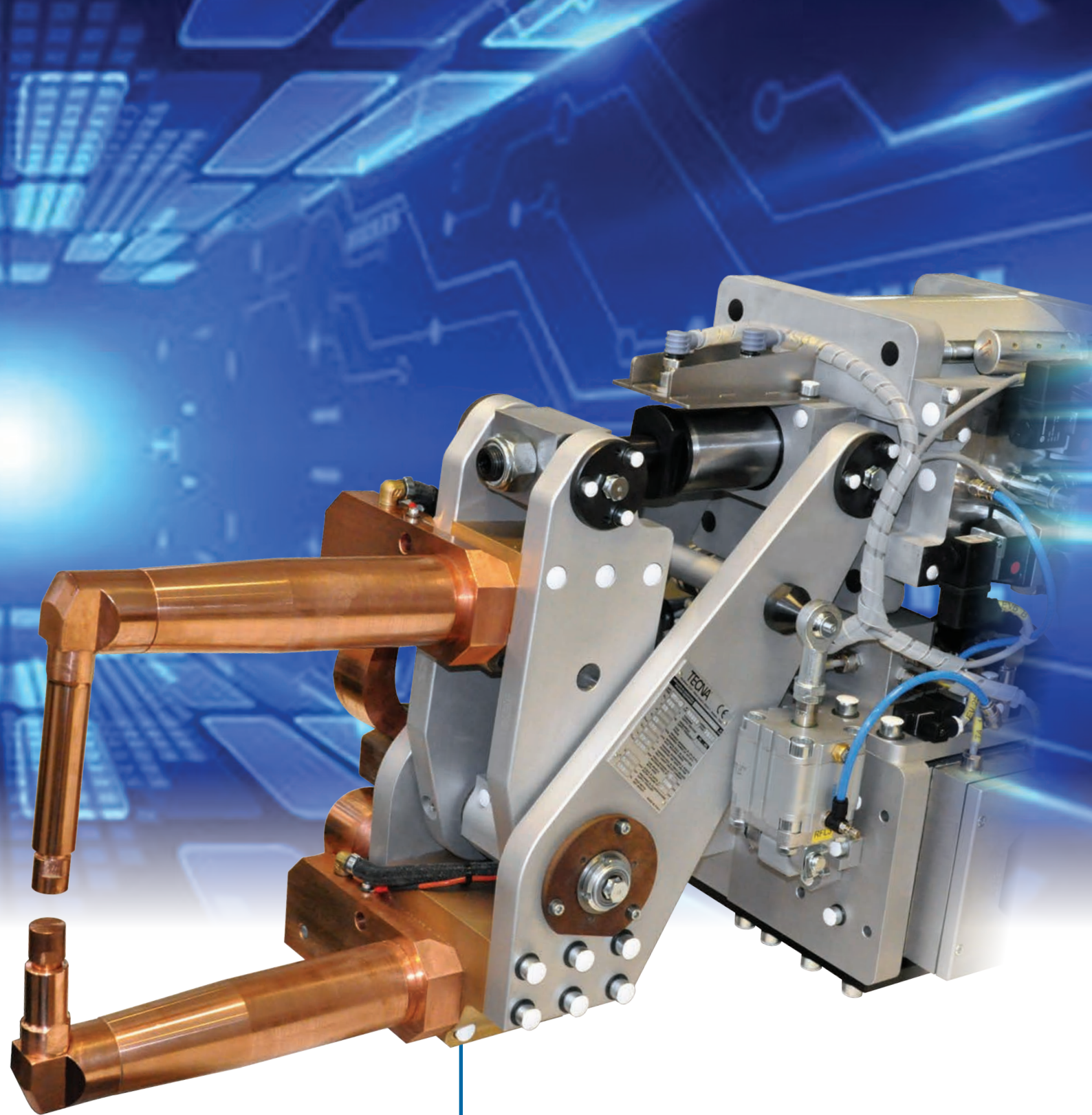
Type	MFDC 90 kVA [40090]
weight, kg	24,5
water cooling, l/min	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer and servomotor 13,7Kg.



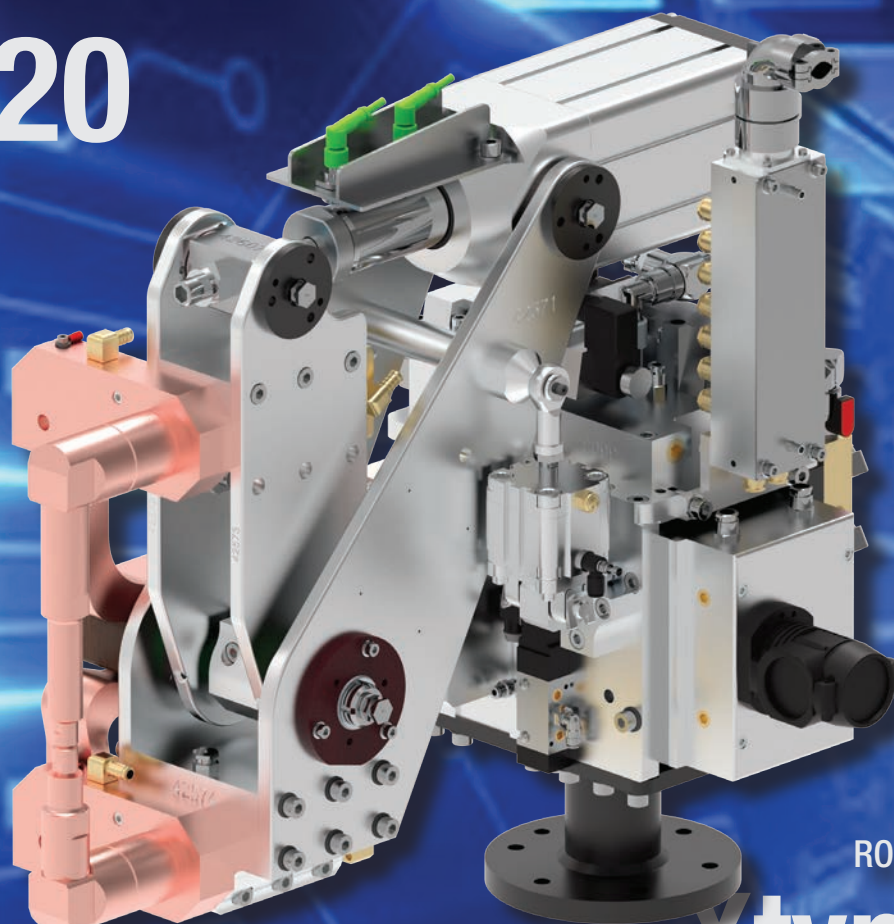
belt driven

servomotor spot welding gun



**pneumatic
spot welding gun**

2920



ROBOT SPOT WELDING GUN

Xtype-light

PNEUMATIC ACTUATOR TECNA

electrical data

Type	*MFDC 56 kVA [39965]	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	56	90
No load secondary voltage, V	8.4	9.9
Thermal current, kA	4.9	6.1
Short circuit current, kA	25	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes [6 bar]	Ø100 mm			
	Arm code [length]		Arm code [length]	
Welding force, daN	4921 [300 mm]	319	4925 [500 mm]	212
	4922 [350 mm]	284	4926 [600 mm]	182
	4923 [400 mm]	255	4927 [700 mm]	159
	4924 [450 mm]	232		
**Gun mass, kg (Arm length 300 mm)	57		64	
Gun water cooling, l/min	15		15	

cylinder

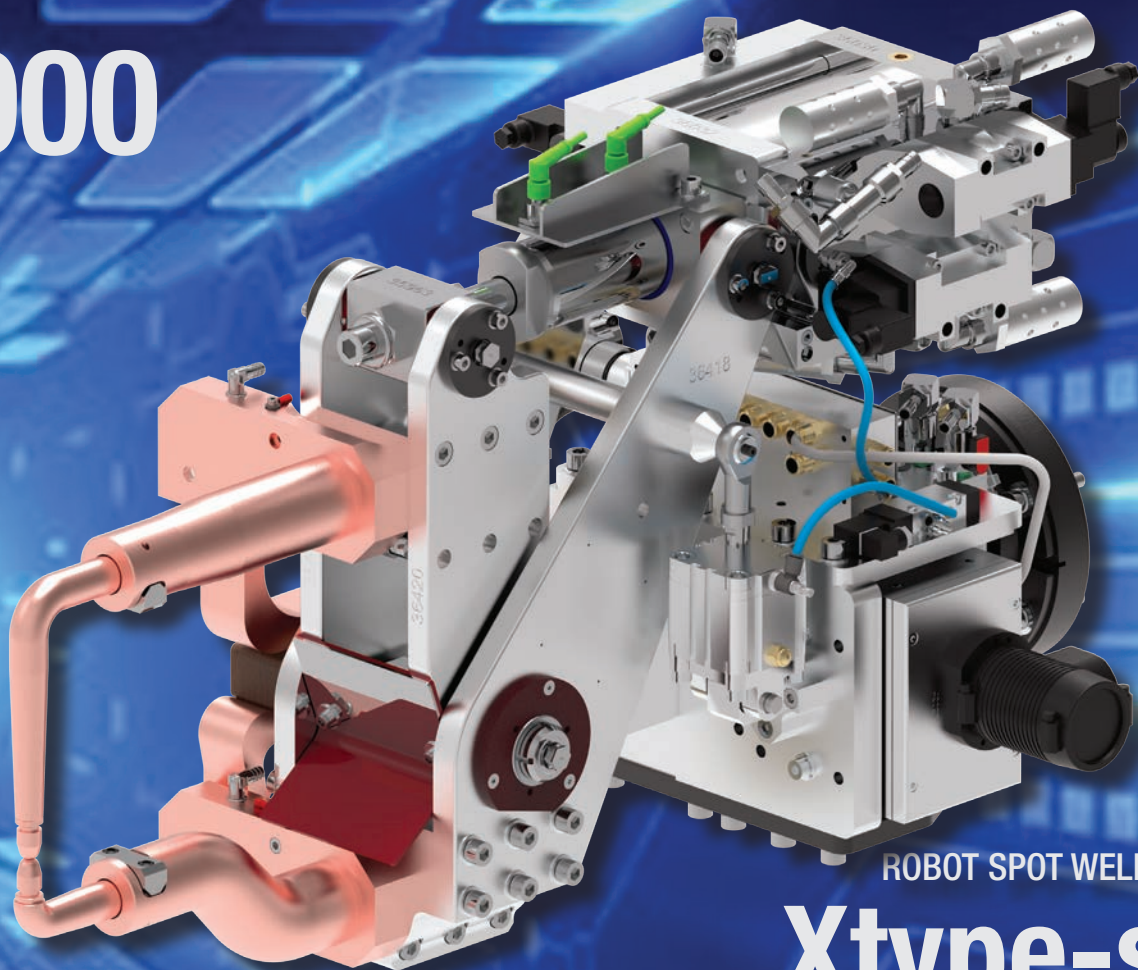
diameter, mm	Ø100
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transformer

Type	MFDC 56 kVA [39965]	MFDC 90 kVA [40090]
weight, kg	16	24,5
water cooling, l/min	6	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer.

2900



ROBOT SPOT WELDING GUN

Xtype-std

PNEUMATIC ACTUATOR TECNA

electrical data

Type	*MFDC 56 kVA [39965]	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	56	90
No load secondary voltage, V	8.4	9.9
Thermal current, kA	4.9	6.1
Short circuit current, kA	25	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes [6 bar]		Ø125 mm		
Welding force, daN	Arm code [length]		Arm code [length]	
	4901 [300 mm]	500	4905 [500 mm]	333
	4902 [350 mm]	444	4906 [600 mm]	285
	4903 [400 mm]	399	4907 [700 mm]	249
	4904 [450 mm]	363		
**Gun mass, kg (Arm length 300 mm)	73		80	
Gun water cooling, l/min	15		15	

cylinder

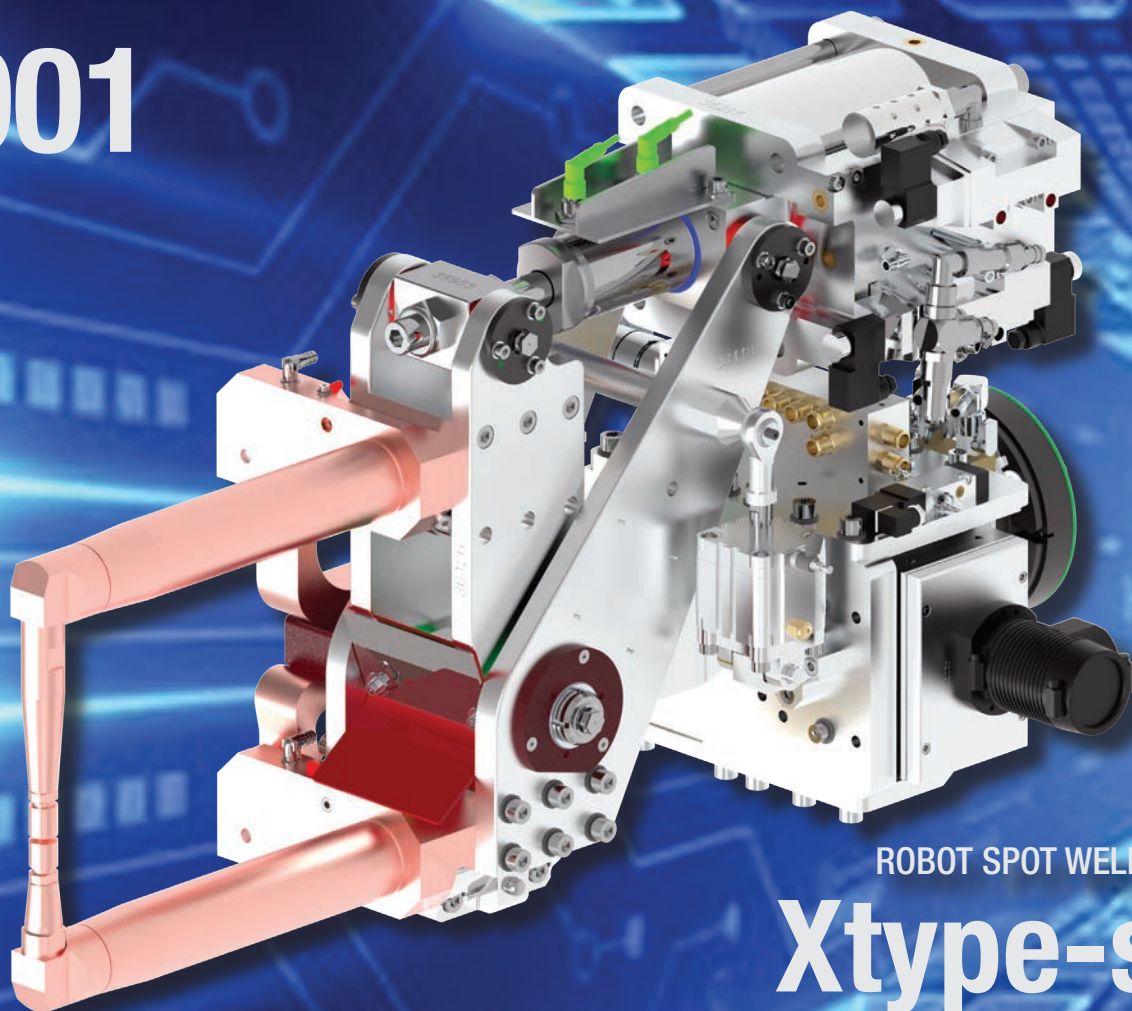
diameter, mm	Ø125
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transformer

Type	MFDC 56 kVA [39965]	MFDC 90 kVA [40090]
weight, kg	16	24,5
water cooling, l/min	6	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer.

2901



ROBOT SPOT WELDING GUN

Xtype-std

PNEUMATIC ACTUATOR TECNA

electrical data

Type	*MFDC 56 kVA [39965]	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	56	90
No load secondary voltage, V	8.4	9.9
Thermal current, kA	4.9	6.1
Short circuit current, kA	25	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes [6 bar]		Ø160 mm		
Welding force, daN	Arm code [length]		Arm code [length]	
	4921 [300 mm]	819	4925 [500 mm]	545
	4922 [350 mm]	728	4926 [600 mm]	467
	4923 [400 mm]	655	4927 [700 mm]	409
	4924 [450 mm]	595		
**Gun mass, kg (Arm length 300 mm)		79	86	
Gun water cooling, l/min		15	15	

cylinder

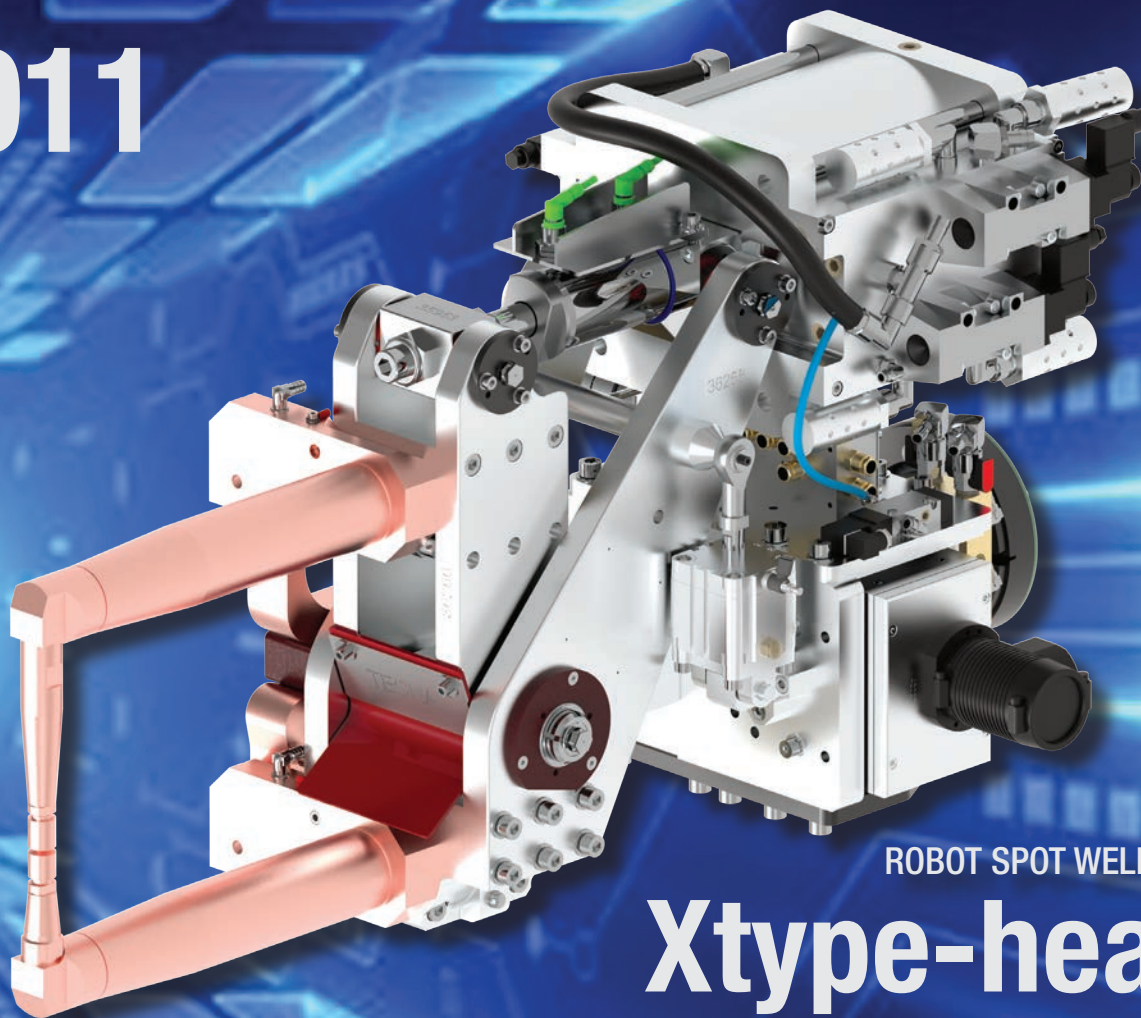
diameter, mm	Ø160
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transformer

Type	MFDC 56 kVA [39965]	MFDC 90 kVA [40090]
weight, kg	16	24,5
water cooling, l/min	6	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer.

2911



ROBOT SPOT WELDING GUN

Xtype-heavy

PNEUMATIC ACTUATOR TECNA

electrical data

Type	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	90
No load secondary voltage, V	9.9
Thermal current, kA	6.1
Short circuit current, kA	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes [6 bar]		Ø200 mm		
Welding force, daN	Arm code [length]		Arm code [length]	
	4911 [300 mm]	1280	4915 [500 mm]	852
	4912 [350 mm]	1137	4916 [600 mm]	730
	4913 [400 mm]	1023	4917 [700 mm]	638
	4914 [450 mm]	930		
**Gun mass, kg (Arm length 300 mm)		89		
Gun water cooling, l/min		15		

cylinder

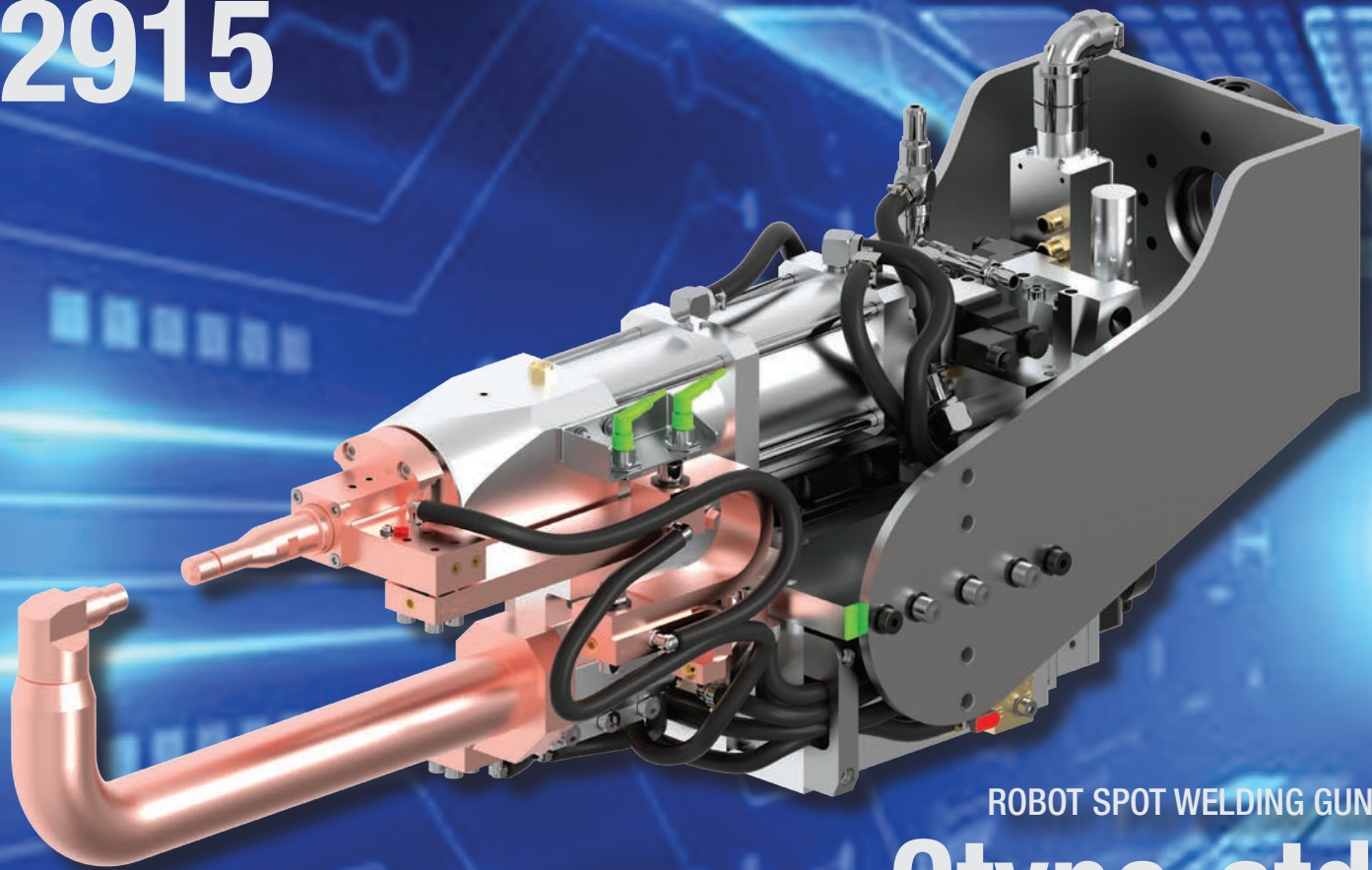
diameter, mm	Ø200
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transformer

Type	MFDC 90 kVA [40090]
weight, kg	24,5
water cooling, l/min	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer.

2915



ROBOT SPOT WELDING GUN

Ctype-std

PNEUMATIC ACTUATOR TECNA

electrical data

Type	*MFDC 56 kVA [39965]	*MFDC 90 kVA [40090]
Nominal power at 50%, kVA	56	90
No load secondary voltage, V	8.4	9.9
Thermal current, kA	4.9	6.1
Short circuit current, kA	25	32

* Transformers available with 500 V / 1000 Hz or alternatively 600 V / 1000 Hz power supply.

general data

Actuator sizes [6 bar]	Ø100 mm	
Welding force, daN	Arm code	
	l1573	840
**Gun mass, kg	98	
Gun water cooling, l/min	15	

cylinder

diameter, mm	Ø100
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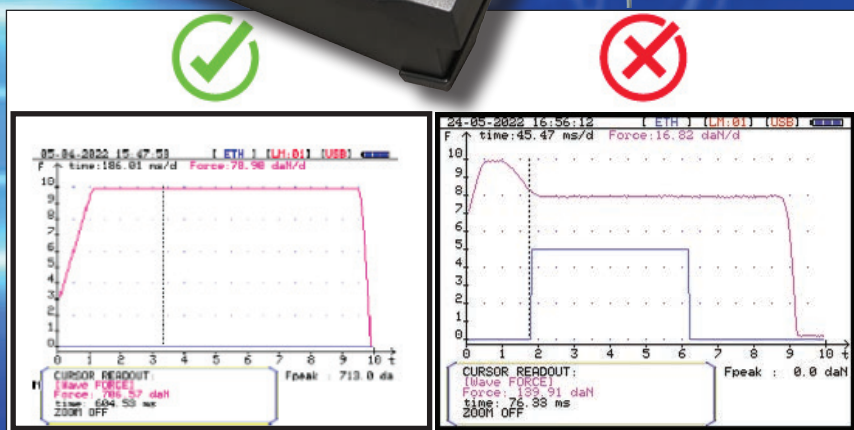
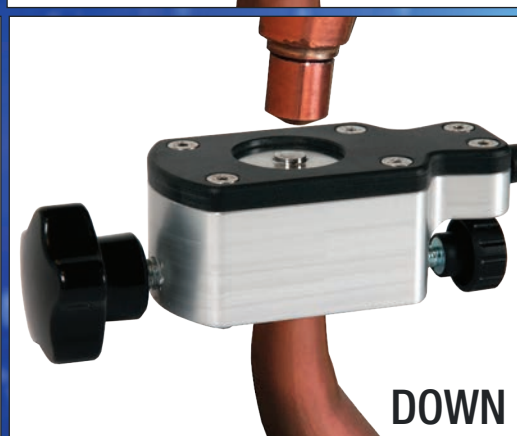
transformer

Type	MFDC 56 kVA [39965]	MFDC 90 kVA [40090]
weight, kg	16	24,5
water cooling, l/min	6	6

** The weight of the guns is with 300 mm arms, with arm fitting, with power transformer.



**high performance
instrument**



TE1700C - 1665A

MEASUREMENT SYSTEMS



Item	7320000447
4000016209	Adapter Cap diam 22 mm
4000016208	Adapter Cap diam 20 mm
4000016207	Adapter Cap diam 19 mm
4000016210	Adapter Cap diam 18 mm
4000016206	Adapter Cap diam 16 mm
4000016205	Adapter Cap diam 13 mm
4000016211	Adapter Cap diam 12 mm



Technical Specifications	1665A
Force Range 1665A	100 to 2000 daN (1665)
Resolution Force	0.1 daN
Technical Specifications	TE1700C
Data Output	Ethernet or Wi-fi
Power supply	110-240 Vac. 50/60 Hz
Battery duration	Batterie ricaricabili Ni-Mh con autonomia di circa 8 ore Rechargeable Ni-Mh Batteries with a performance of about 8 hours.
Dimensions LxWxH	198x102x179
Weight	1.3 kg





TECNA[®]

Resistance Welding Systems & Balancers

Via Meucci, 27
40024 - Castel S. Pietro Terme (BO)
Italy

Tel. +39 051 695 4411
Fax +39 051 695 4490

www.tecna.net
vendite@tecna.net
sales@tecna.net

