

/ Perfect Welding / Solar Energy / Perfect Charging



DELTACON

Highest Quality – spot by spot

DIFFERENT MATERIAL TEXTURE. CONSISTENT SPOT QUALITY.

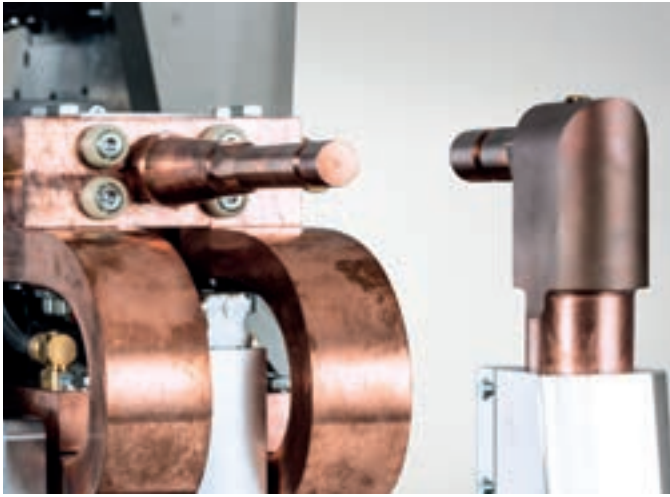
The conventional spot welding system DeltaCon was specially developed for aluminum applications. Customers benefit from minimal downtime, optimal accessibility and high productivity. Individual adjustments to customer requirements with regard to control, main components or geometries of the gun arms are possible at any time. Areas of application are mainly in the automotive industry, in rail vehicle construction and in the aerospace industry.

What's your
Welding Challenge?

Let's get connected.

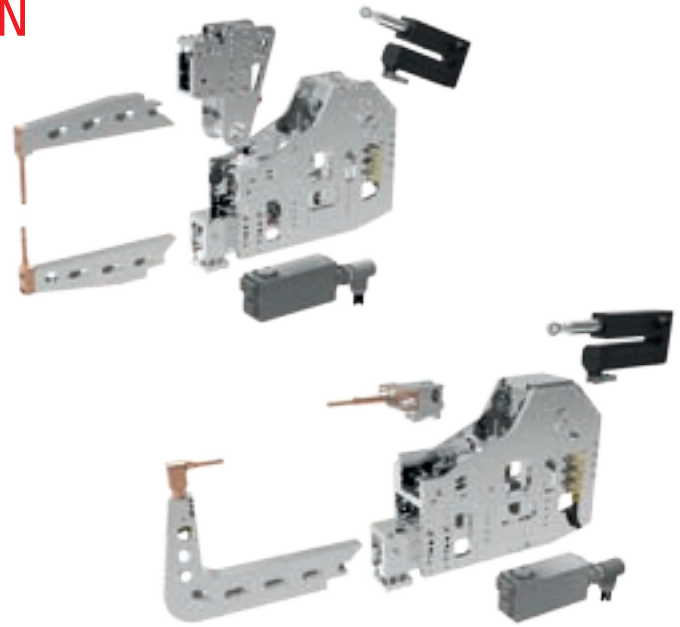


THE ADVANTAGES OF DELTACON



CUSTOM TAILORED SOLUTIONS FROM A SINGLE SOURCE

- / Different electrode holders can be used depending on the accessibility to the component and the required electrode force
- / The arm geometry can easily be adapted to the customer's needs
- / Preferred components (servo drive, transformer, hosepack and inverter) can be chosen by the customer
- / Fronius offers an entire system, including the appropriate services
- / Project support, process and parameter optimization



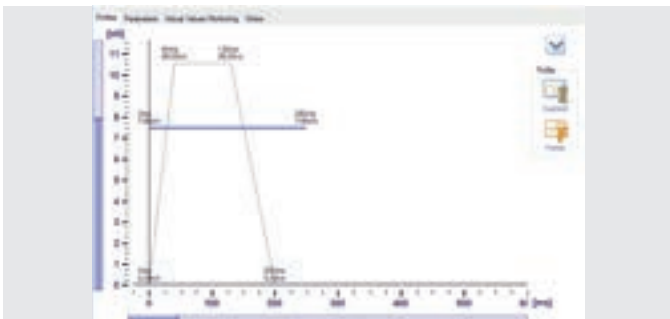
Same basic gun body and same main components for C and X geometry

SIMPLE AND STABLE GUN DESIGN

- / Best stability when transferring very high forces, especially in applications with aluminum and high-strength steels
- / Low storage costs for spare parts, as the same main gun body and main components are used for the X-gun and C-gun geometries
- / Extremely easy to repair and service



Simple and self-explanatory user interface



All relevant welding parameter data at a glance

NO LATERALLY PROTRUDING PARTS

- / All cables and hoses are routed inside of the gun body and provide unrestricted access to the welds.
- / The sensor PC board is waterproof and located in a housing inside the gun body

EASY OPERATION AND DEFINITION OF WELDING PARAMETERS

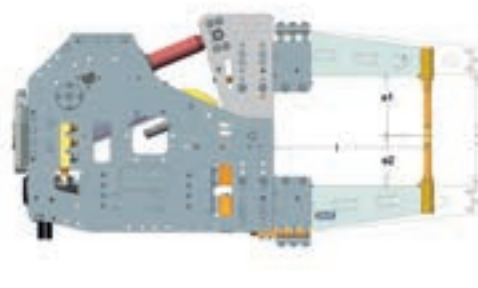
- / Graphical welding parameter definition
- / All guns can be operated from any device with a network connection
- / User and rights administration
- / Logbook for recording of any changes (welding parameters, system configurations, status)
- / Automatic current adjustment for consistent spot welding (stepper function)
- / Auto-backup for welding data security
- / Actual value and limit monitoring with csv export

C-GUN



	C300	C600
e	320 mm	
l	300 mm	600 mm
c	130 mm	
Q _{arm}	4 l/min	
m	147 kg	162 kg
F _{min}	1500 N	
F _{max}	8000 N	7500 N

X-GUN



	X450	X600
e ₁	147,5 mm	
e ₂	147,5 mm	
l	450 mm	600 mm
c	215 mm	255 mm
Q _{arm}	4 l/min	
m	148 kg	156 kg
F _{min}	1500 N	
F _{max}	6000 N	5000 N

TECHNICAL DATA

	DeltaCon			DeltaCon HD
Transformer	MFT 125	MFT 184	MFT 184	MFT 250
Inverter	HWI 416	HWI 416	HWI 436	HWI 436
Operating Frequency (MFDC)	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Secondary no-load voltage	12,48 V	12,6 V	12,6 V	12,48 V
Permanent current	9,5 kA	14,0 kA	14,0 kA	19,0 kA
Max. welding current...	35 kA	40 kA	50 kA	65 kA
...for a duty cycle	8 %	8 %	8 %	8 %
Power at 100 % duty cycle	125 kVA	184 kVA	184 kVA	250 kVA
Primary voltage rating	3 x 400-440 V 3ph (-15 % to +20 %) 3 x 480 V 3ph (-15 % to +20 %)			
Network frequency	50/60 Hz			
Max. electrode force	10 kN			
Cooling				
Input/output connection	M22 x 1,5 with 60° sealing cone			
Min. water flow rate	16 l/min (2 bar differential pressure)			

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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,550 employees worldwide and 1,241 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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