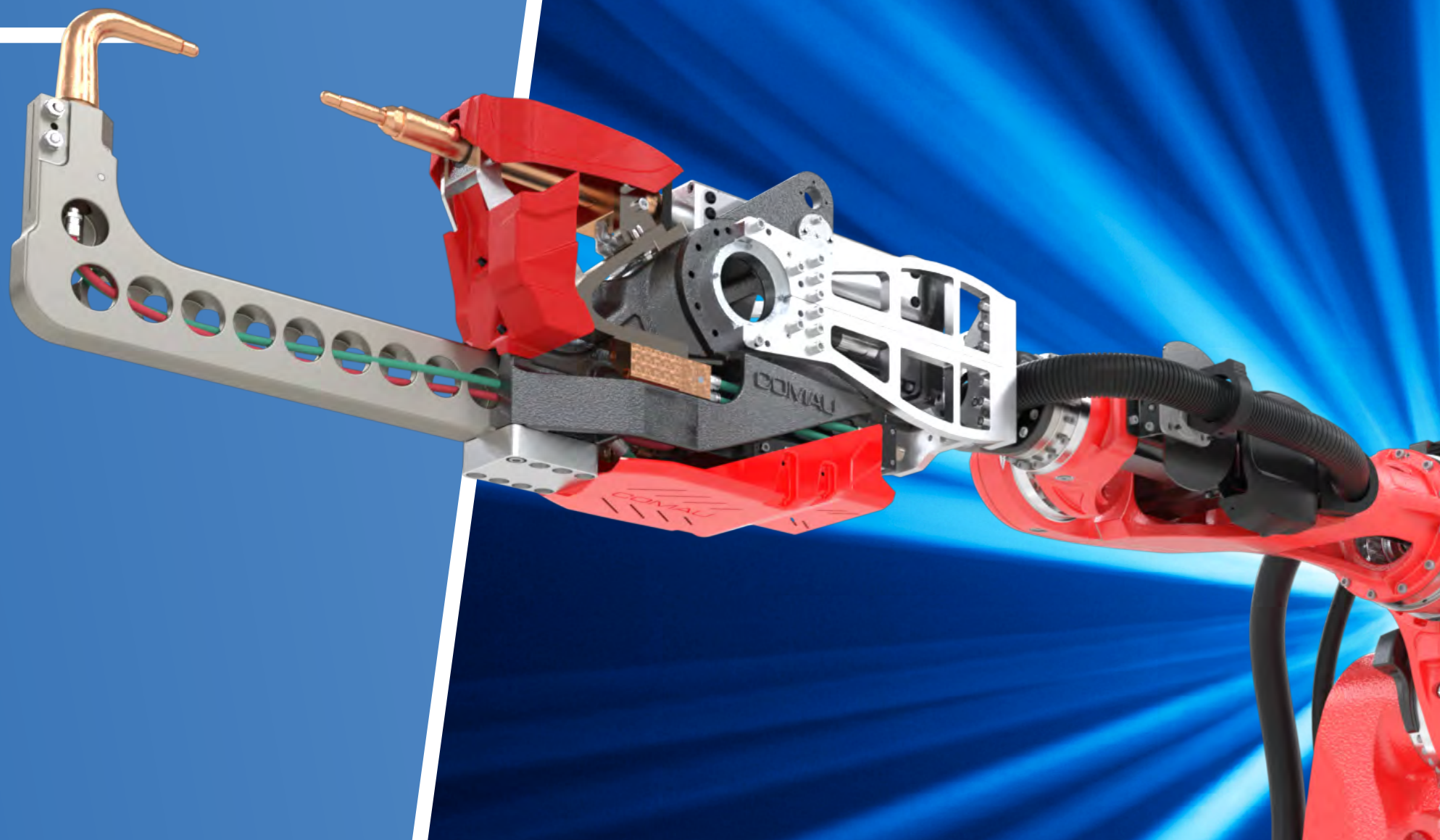


# N-WG



## Welding guns portfolio

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Many years of experience guaranteeing expertise,  
precision, and reliability

Long term experience is engraved into every one of our best-in-class products and technologies. This, coupled with a steadfast commitment to innovation, continuously drives Comau to widen our offer to meet customers' performance targets and evolving needs by anticipating their requirements.

*"Facts are in our focus, as we believe that being concrete is the motor behind the tangible products and avant-garde solutions that we design and develop."*

### OUR WELDING GUN FAMILY

#### N-WG C-type / X-type (steel joint)

Comau N-WG welding guns are the result of our ability to listen to our customers and deliver a new paradigm in enhanced modularity, easier reconfigurability and improved ease of use. With a single body able to cover the complete range of welding guns, the fast change arm eliminates the need to stop production when replacing tools or parts – all while guaranteeing high-speed functionality, quality, cost effectiveness and process efficiency.

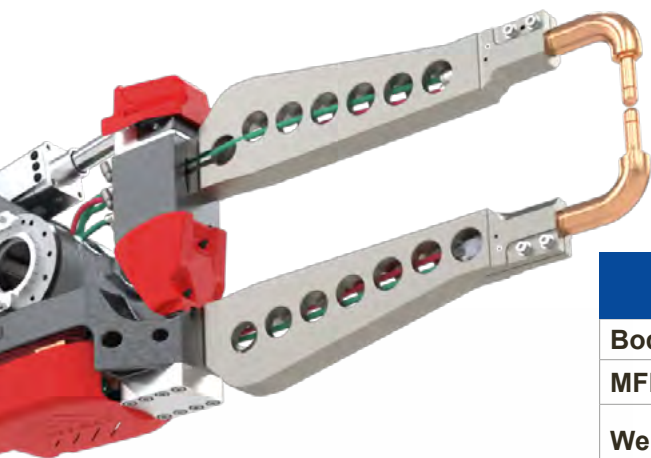
Modular and symmetrical, N-WG welding guns are designed to reduce spare parts and procurement lead times. They also ensure lower water and power consumption, a lower total cost of ownership, and are available for steel spot welding.



The all-new N-WG welding gun sets a new global benchmark for simplicity, reliability, flexibility and low cost.

The patented design is compliant with most major robot brands. In addition, N-WG welding guns ensure lower total cost of ownership thanks to their highly competitive initial investment expenditure and lower operating, spare parts and consumption costs.

**Comau welding guns are designed to deliver optimal performance and high repeatability day after day, year after year.**

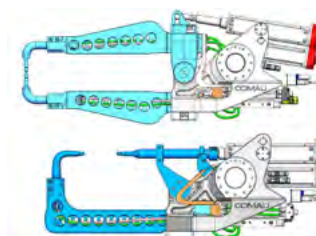


N-WG Main Characteristic	
Body weight	78kg
MFDC Transformer	100 KVA at 50% DC
Welding Force	X-type 560 daNm / C-type 800 daN
Actuator Max. Force	20kN
Transformer Type	ISO
Body Styles Number	1
Cooling Efficiency	up to 9l/min (X type) up to 9.7 l/min (C type)
Equalizing	by SW
Feedback for adaptive quality system	Voltage

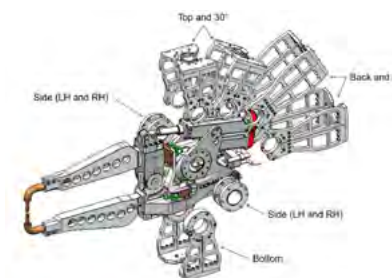
- Unique body for standard and high-force welding guns
- Fast reconfigurability between X and C
- Fast arms exchange
- Lower Total Cost of Ownership
- Designed for simplified maintenance and fewer spare parts
- MTTR is less than 10 minutes
- Improved water flow, rationalized fittings and a streamlined cooling system
- Reduced energy and water consumption
- Design life 30 million cycles



Quick arm exchange is facilitated thanks to the new design featuring a dedicated clamp and modified gun arm structure



The transformation from X to C (and vice versa) is fast and easy. Simply change a single module, pulley and belt.

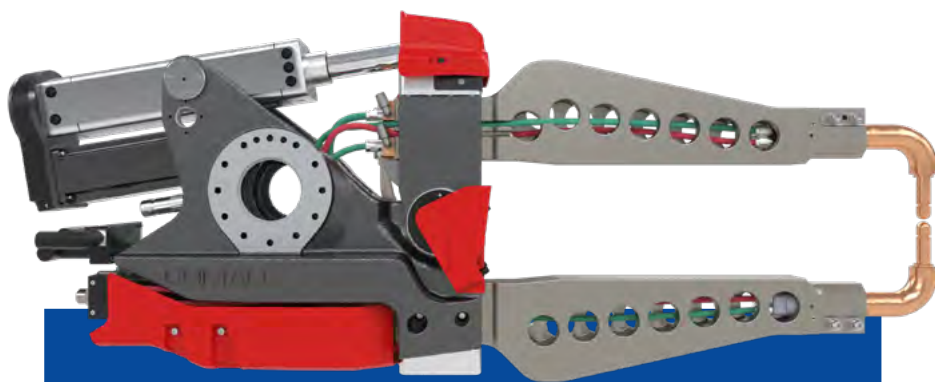


Universal mounting positions: top, back, bottom, side, 30° and 60°



## N-WG features

Comau provides a full range of standard gun arms (small, medium, large and extra-large). For specific requirements, Comau engineering supports customers in the modeling and designing of special gun arms. The 3D model shape can also be simulated and tested before the manufacturing launch to verify absolute process reliability.



Available with ø16 or ø20 caps

Complete with cover (optional)

Integrated solution with Comau Robots (Welding Machine)

Mountable on any robot brand

**3D library means reduced delivery lead time:**

No design required

Kinematic available for Robcad simulations

### Features

**Robotic versions**

**Comau patented system**

**Standard arm library**

**Reduced quantity of spare parts**

**No external pipes / cable**

**Mountable on any robot brand**

**Full range of force application covered by a single body**

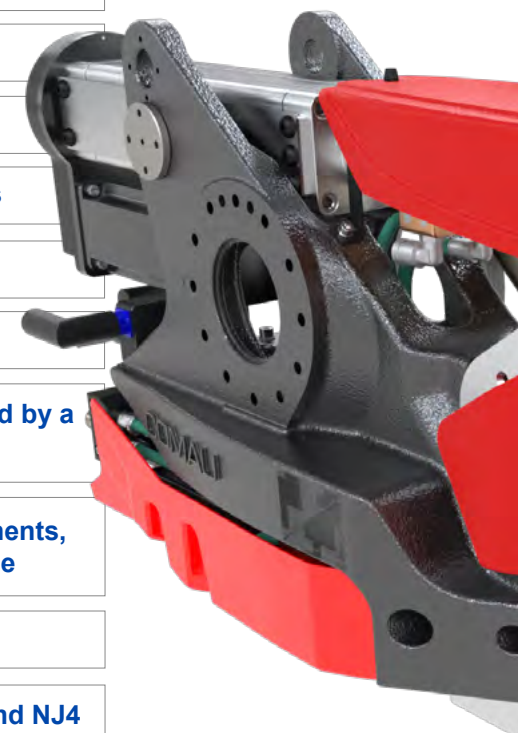
**Extensive standardization of components, reducing inventory cost, lead time**

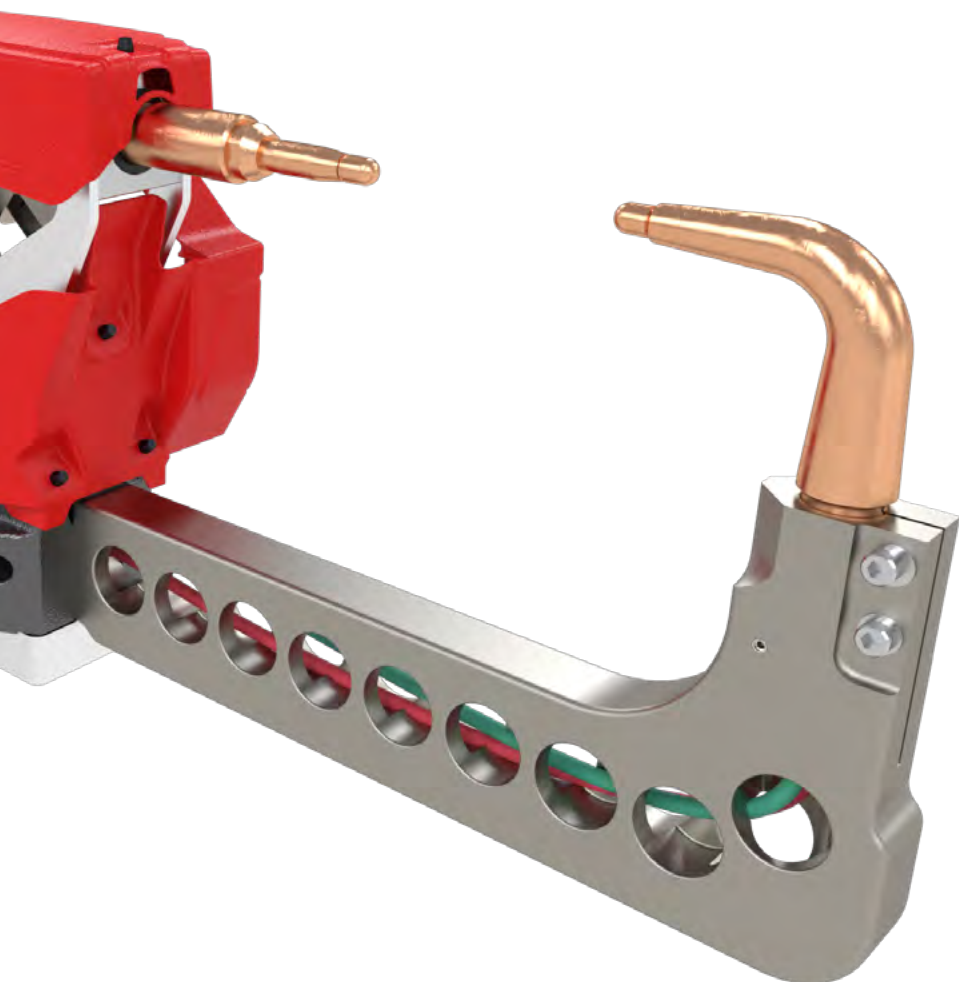
**Effective Digital Twin**

**Fully integrated on Comau N-Series and NJ4 robots (welding machine)**

**X & C type**

**X gun arms symmetry around the fulcrum- single design of symmetric arms**





### Basic Configuration

Comau Servo Actuator	MFDC transformer for steel joint
Parallel motor to have a single actuator for X & C	Distributor for water connection
Robifix multi-contact primary power connection	Bracket Standard types (for fixing the gun to the robot flange)
Connection Box for I/O management	Secondary voltage feedback for adaptive quality system (for steel)

### Options

Custom "Product / Process" special arms
Special bracket design
UL compliant Modular Covers

### Specifications

Design life	30 Mil. cycles
MTTR	10 minutes
Cooling requirement	8 l/min series circuit

# Spot Welding Machine

When talking about spot welding applications, we share the customers' mind-set. The request is to reach efficient results in the easiest way.

The answer is what we call the Comau Spot Welding Machine: a complete package designed to multiply the advantages of integrated solutions.

Comau is a global supplier of Advanced Robotics\*, providing a complete range of fully tested components to address specific needs.

- **Spot Welding Robot with or without Hollow Wrist Technology**

- **Integrated power supply within Robot arm**

- **Automatic welding gun**

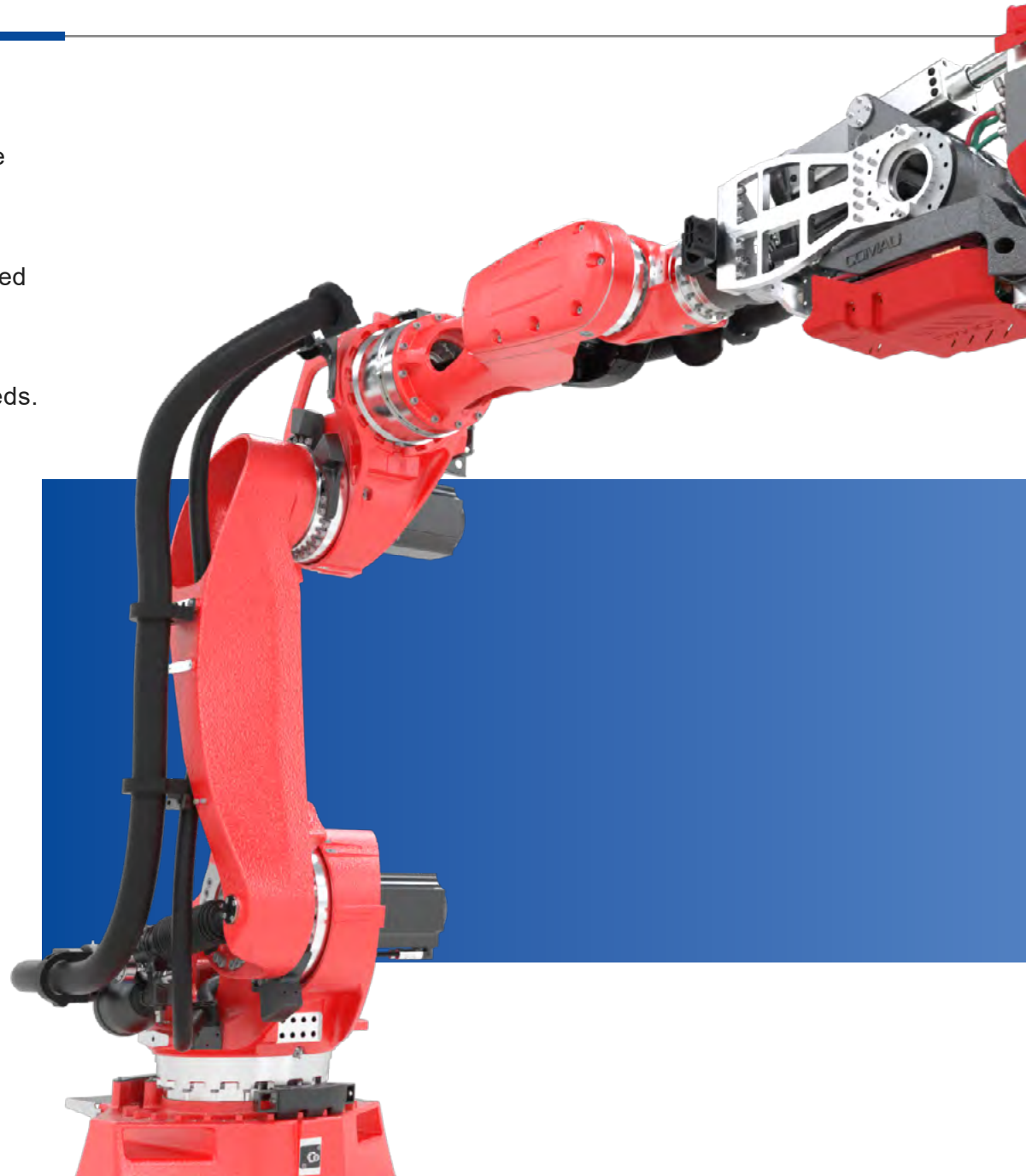
- **Spot Welding Box (Bosch Inverter for manual/automatic guns)**

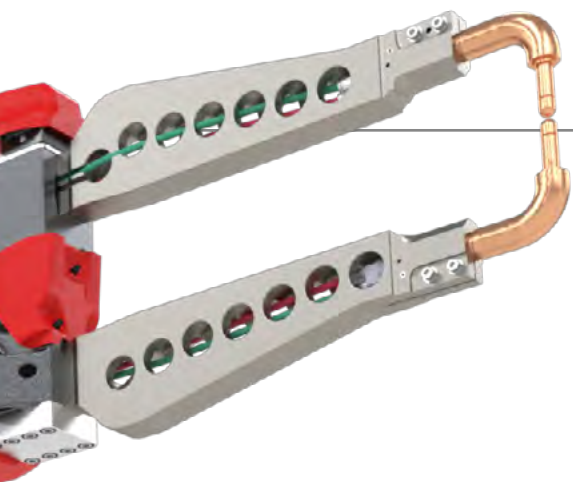
- **Smart Spot Application, with adaptive software**

- **Media panel**

- **Fixed or swinging Tip dresser with new calibrated cutter**

- **Automatic cap changer**





A complete, reliable, high-performance, standard and customizable Spot Welding Machine.

**Ready to weld, ready now.**



### Features

- Proprietary robotic solution using the N-WG gun
- Configurable with optional accessories:  
(welding box, media panel, Tip dresser, application SW)
- Seamless connection and power supply

### Benefits

- Reduced Total Cost of Ownership (TCO)
- Simplified spare parts management
- Reduced space and energy consumption
- Improved system efficiency and performance
- High density automation is possible
- One partner providing one integrated system



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**Made in Comau**