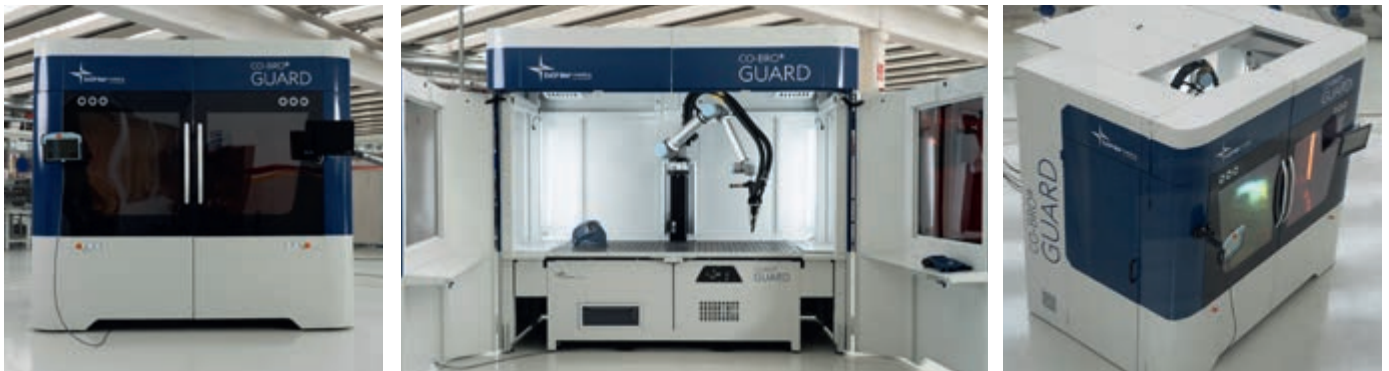


# CO-BRO® GUARD

CO-BRO® GUARD is a new high-end technology equipment for collaborative robotic MIG-MAG welding. This revolutionary system is based on a fully enclosed cell featuring a comprehensive and user-friendly software interface integrating the Böhler Welding URANOS equipment, the collaborative robotic arm and all the accessories. The collaborative robotic concept, full accessibility, easy handling, extremely easy programming, and advanced fume-extraction solutions combine to make the real difference.



## MAIN BENEFITS

- Intuitive user interface based on a 4-button wireless keypad

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Maximum ease of use and flexibility when programming, thanks to the touchscreen pad and the movable 4-button wireless keypad, governing both robotics and welding process
- Delivering the perfect weld seam

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CO-BRO® GUARD brings together the Böhler Welding expertise and the **perfect integration of the collaborative robotics with the welding process**: special processes enabled, Böhler Arc enabled, perfectly matched filler metals
- Accessible and versatile exclusive GUARD enclosure

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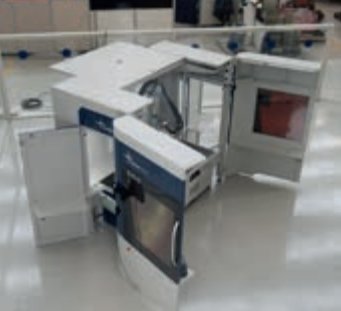
**All in one unit**: Movable with a manual forklift, opens on all sides and from the top. Working area can be split in 2, allowing manual operations & collaborative welding at the same time. **The ultimate workplace safety – no messy and unsafe wiring and hoses.**
- HSE maximum protection: Part of Böhler Welding's GUARD full welder safety solutions

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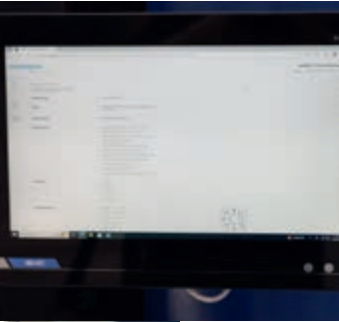


**GUARD enclosure**: separates the welding from anything else in the workshop. **GUARD fume concept**: high-vacuum integrated (optional), low-vacuum ready, optimized with Böhler Welding's low fume, low manganese and low Crvi consumables.



# CO-BRO<sup>®</sup> GUARD

Product features	User benefits
	<ul style="list-style-type: none"> <li>» User-friendly software governing the welding process, the collaborative robotics and all the accessories</li> </ul>
	<ul style="list-style-type: none"> <li>» It covers the lack of skilled welders and high level operators</li> <li>» Maximum portability</li> </ul>
	<ul style="list-style-type: none"> <li>» Can be lifted and moved around with a conventional hydraulic-manual fork lift. It can be placed anywhere in a workshop.</li> <li>» No disassembly and re-assembly required</li> <li>» No unsafe wiring and hoses</li> <li>» The revolutionary GUARD enclosure defines the border between internal environment and external environment</li> <li>» Easy handling and full flexibility enclosure design</li> <li>» Total fume protection</li> </ul>
	<ul style="list-style-type: none"> <li>» Multiple doors, sliding roof and table divider. Also possible to work with half of cell closed and, half of cell open for other operations, e.g. positioning a new part to be welded</li> <li>» It brings welding closer to the machining world.</li> <li>» Full access to all operations even while welding, all options available for positioning the part to be welded</li> </ul>
	<ul style="list-style-type: none"> <li>» Intuitive sound &amp; LED system (alarm / operations / welding signals)</li> <li>» Never go wrong in operations and welding</li> </ul>

# CO-BRO<sup>®</sup> GUARD

Product features		User benefits
	<ul style="list-style-type: none"> <li>» Heavy-duty high-performance welding equipment URANOS NX 5000 PME integrated. Perfect weld seam in combination with the welding processes, the Bohler arc concept and the premium Bohler welding consumables</li> <li>» Welding equipment is attached to the cell</li> <li>» 220 V and 3 x 230 - 400 V power feed required</li> <li>» Compressed air and shielding gas ready</li> </ul>	<ul style="list-style-type: none"> <li>» High quality, maximum productivity and repeatability</li> <li>» Plug and play – just connect power to a dedicated electric panel and connect the utilities</li> <li>» Ease of use for operators</li> </ul>
	<ul style="list-style-type: none"> <li>» Additional user interface</li> </ul>	<ul style="list-style-type: none"> <li>» weldNet<sup>®</sup> software solutions ready. Connections, data storage, materials and process advice and much more</li> </ul>
	<ul style="list-style-type: none"> <li>» Roof-mounted fume extraction system – can be connected to a low vacuum fume extraction unit or directly to the reticulated fume ducting system</li> <li>» The under-table extraction system can be connected directly to a low-vacuum extraction unit</li> </ul>	<ul style="list-style-type: none"> <li>» Health and safety at the highest level</li> </ul>
	<ul style="list-style-type: none"> <li>» CO-BRO<sup>®</sup> cell designed to be fitted with an optional fume extraction torch connected to a high vacuum fume extraction unit.</li> <li>» Can be vented externally to comply with legislation</li> <li>» Integrated with the cell control system for ease of use</li> <li>» Best when used with the Bohler Welding low fume GUARD seamless flux cored wires</li> </ul>	<ul style="list-style-type: none"> <li>» Best-in-class health and safety performance whilst maintaining the Perfect Weld Seam</li> </ul>

# CO-BRO<sup>®</sup> GUARD

Technical Data	
Working area LxWxH [mm]	2,000 x 1,000 x 1,200 or 2 x 1,000 x 1,000 x 1,200 (with table divider)
Max. weight of the parts [kg]	1,000
Welding Equipment	URANOS NX 5000 PME
Collaborative Robot	Universal Robot UR10e
Fume extraction systems	High-vacuum (extracting torch) system integrated (optional) Low-vacuum ready
Supply Voltage	220 V AC - 50 Hz - 1,000 W - collaborative robot 220 V AC 50 Hz - 200 W - controls 3 x 400/230 V ±15 % 50 Hz 23.6/24.5 kVA welding EQ
Other utilities	Compressed air ready Additional screen for weldNet <sup>®</sup> Management system
Dimension LxWxH [mm] closed	2,764 x 1,792 (2,436) x 2,460
Dimension LxWxH [mm] open	5,520 x 3,530 x 2,460
Weight [kg]	1,600

