

# UTP ROBOTIC CHROMELESS 600

## Seamless metal-cored wire

Premium seamless gas shielded metal-cored wire for multi-purpose application in maintenance and repair without the adding of Chrome and Nickel

Product features	Product benefits	User benefits
<ul style="list-style-type: none"> <li>» No Chrome and Nickel added</li> <li>» No Chrome VI in the welding fume</li> </ul>	<ul style="list-style-type: none"> <li>» Reduction of hazardous particles at source</li> <li>» Compliance with the most stringent safety rule in term of Cr VI emission</li> </ul>	<ul style="list-style-type: none"> <li>» In combination with existing fume extraction and protection systems, UTP ROBOTIC CHROMELESS 600 provide the highest level of protection</li> <li>» Reduced Risk impact also for non welders</li> </ul>
<ul style="list-style-type: none"> <li>» Stable arc</li> </ul>	<ul style="list-style-type: none"> <li>» Welder-friendly</li> <li>» Smooth wetting</li> <li>» Low spatter</li> </ul>	<ul style="list-style-type: none"> <li>» Low defect rate</li> <li>» Good fatigue resistance</li> <li>» Less post weld cleaning</li> </ul>
<ul style="list-style-type: none"> <li>» Excellent feedability</li> </ul>	<ul style="list-style-type: none"> <li>» Dependable feedability</li> <li>» Low contact tip wear</li> </ul>	<ul style="list-style-type: none"> <li>» No starting defects</li> <li>» Increased arc time</li> </ul>
<ul style="list-style-type: none"> <li>» Seamless design</li> </ul>	<ul style="list-style-type: none"> <li>» Copper-coated surface</li> </ul>	<ul style="list-style-type: none"> <li>» Excellent arc stability</li> <li>» Resistance to porosity and rust formation</li> </ul>

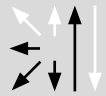
UTP ROBOTIC CHROMELESS 600 is a new M&R – MCW designed and planned to reduce the risk of Hexavalent Chromium by removing the dangerous agent at source: No addition of Chrome and Nickel in its formulation, guarantee a safer working place for welders and not welders and guarantee the most stringent requirements from European Exposure Occupational Limits. In the last few years, more and more information about the dangers of Hexavalent Chromium (Chromium VI) in welding fumes has been proven. It targets the respiratory system, liver, kidneys, skin, nose, eyes and is known to cause cancer and COPD. UTP ROBOTIC CHROMELESS 600 is an important help to reduce such risks and improve the safety of welders or operators who are involved in the welding processes. In addition, due to the particular design of the product, the wear loss according to ASTM G-65 A, is ~ 4 times better than standard 600 HB flux-cored wire. The seamless, copper-coated wire design adds sufficient stiffness and glide to overcome friction in liners, welding guns and contact tips. The copper-coating enhances current transfer between contact tip and wire resulting in a stable arc. Controlled wire cast and helix largely avoids “dog tailing”, promoting straight, well positioned welds.



### Typical applications

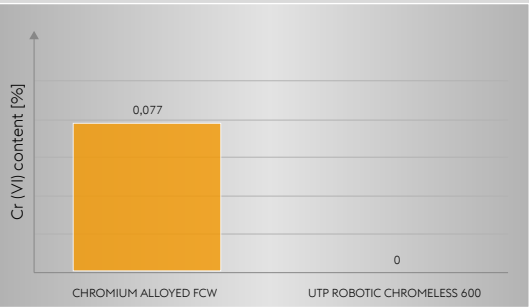
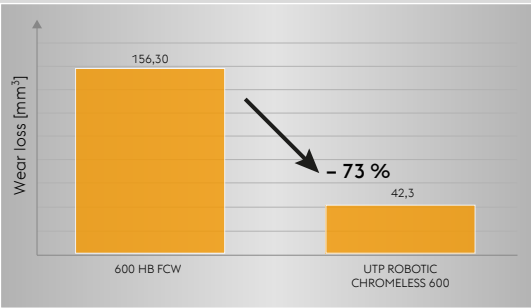
- » Recycling
- » Agriculture

# UTP ROBOTIC CHROMELESS 600

Classifications		Operating data Allows welding with standard power sources	
EN 14700	Welding positions	Polarity	Shielding gas
T Z Fe 8		DC+	EN ISO 14175: M21, M20

Typical chemical composition, all weld metal, wt. %				
Shielding Gas	C	Si	Mn	Other alloy elements
M21	0.55	0.8	0.7	< 5.0

Mechanical properties, all weld metal (single values typical)		
Shielding gas	Condition	Hardness as welded (HRC)
M21	as welded	57 – 62

Fume Emission Analysis	Wear Loss ASTM G-65 (mm <sup>3</sup> )
No Cr (VI) in welding fumes	Higher abrasion resistant
	 <p>» Wear loss ~ 4 times lower than standard 600 HB – FCW</p>

Overview spool types		
Wire basket spool BS300		
	Precision layer wound  <b>Dimensions</b> Ø external: 300 mm Ø internal: 52 mm Width 100 mm	Available spool weight: 16 kg  Available diameters: 1.2 mm 1.6 mm