

UTP ROBOTIC 600

Seamless copper-coated cored wire

Premium seamless gas shielded metal-cored wire for a wide range of demanding applications.

Product features	Product benefits	User benefits
» Seamless copper-coated cored wire	» Resistance to moisture and rust formation » Excellent and smooth wire feeling	» Excellent arc stability » Reduced contact tip wear » No starting defects » Automated & robotic welding applications
» Controlled cast & helix	» Limited “dog tailing” at contact tip	» Well positioned beads
» Wider window of applicable welding parameters than solid wire	» Easy setting of parameters	» Significantly higher deposition rates and welding productivity » Calm, spatter-free spray arc welding » Low effect rate » Less post weld cleaning
» Weldable in all welding positions	» Regardless position	» One wire for all hard-facing jobs
» Availability in drums	» High filing content	» Less downtime for spool exchange

UTP ROBOTIC 600 is an example of an innovative, tailor-made product – developed to optimally fulfill requirements for demanding industrial applications. It is a seamless, copper-coated, gas shielded cored wire for the hard-facing of components subjected to extreme combinations of pressure, impact and abrasion wear. The wire can be used in all welding positions and has excellent characteristics for the robotic welding of new equipment, for example onto shredder teeth. It performs equally well in semi-automatic GMAW used for on-site-repair of worn components.

When overlay welding onto S355 base material, a crack-free deposit with hardness of 55 HRC is already obtained in the first layer, increasing to a level of 57 - 67 HRC with the following layers. As such, the full weld overlay thickness will contribute to the wear resistance leading to a higher service of life of the repaired components until next maintenance becomes necessary.

With a record of hundreds of successful applications, UTP ROBOTIC 600 has proven to meet the growing demand for efficient maintenance solutions to protect machinery against wear and prolong the life of components.



Typical applications

- » Shredder components in recycling equipment
- » Parts of earth moving equipment
- » Breakers or presses
- » Agriculture machinery

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

Typical chemical composition, all weld metal, wt. %				
Shielding Gas	C	Si	Mn	Cr
M21 (82% Ar – 18% CO ₂)	0.45	3.0	0.40	9.0

Mechanical properties, all weld metal (single values typical)		
Shielding gas	Condition	Hardness as welded (HRC)
M21 (82% Ar – 18% CO ₂)	as welded	57 – 62

Macro and micro pictures				
Layer	Macro 2.3X	Micro 400X	Note	HRC
1			Dendritic solidification structure mainly made of martensite and of carbide	56
2				55
3				58

Packaging					
Wire basket spool BS300			BASEdrum™ 250 Kg		
	Precision layer wound Dimensions Ø external: 300 mm Ø internal: 52 mm Width: 100 mm	Available spool weight: 16 kg Available diameters: 1.2 mm (art. nr. 38748) 1.6 mm (art. nr. 38899)		Round Drum Weight: 250 kg Dimensions Ø external: 520 mm Height: 780 mm	Available diameters: 1.6 mm (art. nr. 30826)