

# Seamless Cored Wires for Hardfacing Applications

Demand for efficient maintenance application solutions is surging as customers search for ways to increase productivity and reliability. Following this trend and to support our customers, UTP Maintenance has launched a full program of seamless cored wires.

## Advantages of seamless cored wires

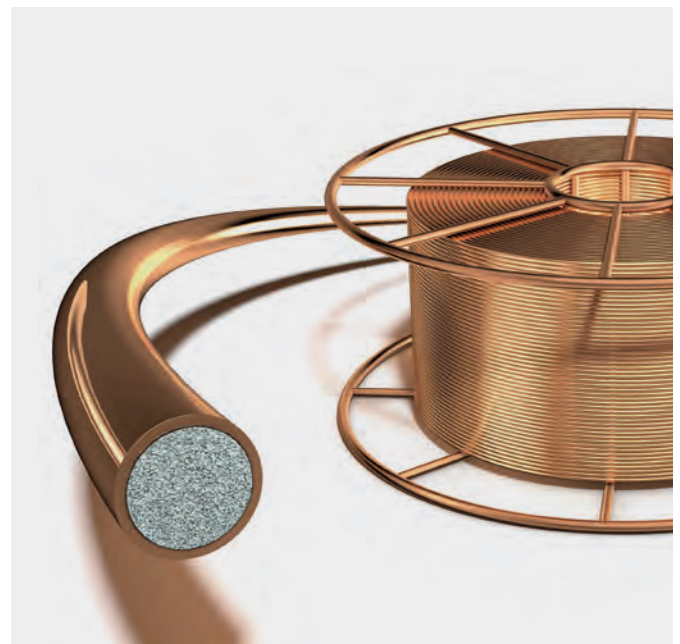
- Reduced contact tip wear
- No moisture pick-up
- Constant positioning accuracy of the metal-cored wire at start ignition and during welding, highly beneficial for robotic welding
- Reduced wire feeding force
- Improved weldability and bead shape appearance
- Optimal copper coating ensures excellent current transfer



## Protection plus Productivity = Protectivity™

100% UTP Maintenance

Packaging: available in 16 kg spools and 250 kg drums



## General applications

- Manual welding and in particular robotic welding, specifically for serial production
- Wherever cost efficient and quick welding tasks are required

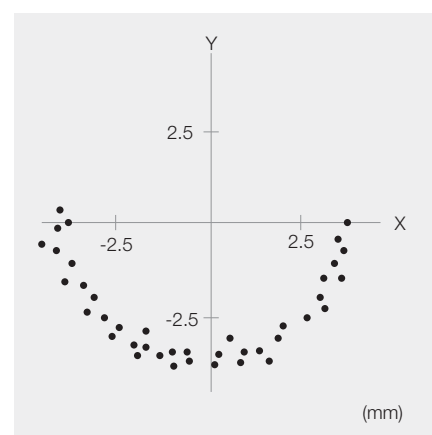
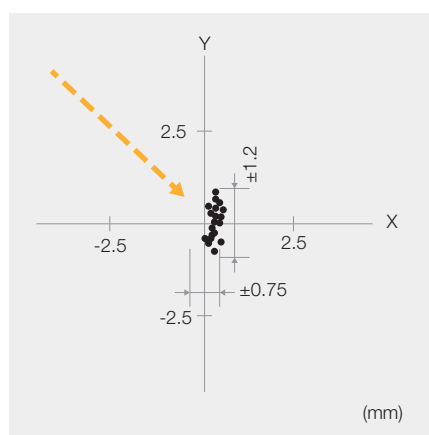
## Fields of use

- Mining
- Cement
- Earthmoving
- Agriculture
- Recycling



After 30 minutes of continuous welding at 300 A-29 V.  
Seamless cored wire contact tip ovality showed lower results compared to Folded cored wire.

## Positioning accuracy: different cored wire production technologies affect targetability test results



Seamless cored wire demonstrates better wire positioning than seamed cored wire. It's greater straightness and stiffness results in outstanding performance for robotic and automatic applications.

Folded cored wire

Product	Chemical Composition						Hardness
	C	Mn	Si	Cr	Mo	Others	
UTP AF ROBOTIC 351 B	0.065	1.40	0.60	3.00	1.00		325-375 HB
UTP AF ROBOTIC 352	0.250	1.75	0.55	1.70			325-375 HB
UTP AF ROBOTIC 405	0.100	1.50	0.60	5.50	0.90		37-42 HRC
UTP AF ROBOTIC 405 B	0.100	1.50	0.60	5.50	0.90		37-42 HRC
UTP AF ROBOTIC 453	0.250	1.00	0.40	5.00	4.00		42-47 HRC
UTP AF ROBOTIC 503	0.250	0.80	0.40	5.00	3.50	Ti: 0.25	47-52 HRC
UTP AF ROBOTIC 600	0.450	0.40	3.00	9.00			57-62 HRC
UTP AF ROBOTIC 603	0.500	1.10	1.00	5.50	1.30	V: 0.3 / W: 1.3	57-62 HRC
UTP AF ROBOTIC 606	0.500	1.40	0.60	6.00	0.50		57-62 HRC
UTP AF ROBOTIC 606 B	0.500	1.50	0.60	6.00	0.50		57-62 HRC
UTP AF ROBOTIC 6011	0.300	1.10	0.40	0.30		Ni: 1.5 / B: 4.8	62-67 HRC

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