

New Era of High Speed Welding: TAWERS Super Active

Neuss, June 2018, at EuroBLECH exhibition 2018 Panasonic will exhibit its latest technology "Super Active Wire Feed Process (S-AWP)" with live weld demonstration at the booth. This innovative process will break two big walls which were earlier considered impossible. First; the wall of "critical amperage". S-AWP is possible to maintain stable short arc transfer to much higher amperage than critical amperage where it starts to globular. Second: the wall of "humping". S-AWP is possible to stabilize the arc from humping even when welding at high speed.



Utilizing a reciprocating wire feed in combination with a continuously monitored modified current waveform to control material transfer throughout the short arc circuit transfer cycle, it is now possible to reduce welding spatter and material distortion to a minimum and ensures a flawless weld appearance, especially when welding thinner materials.

This is achieved with a reduced heat input and increased material deposition during the welding process. The number of short circuits for material transfer during welding have been increased significantly. This greatly reduces both the transfer droplet size and spatter. In addition, the disturbances caused by post-vibrations in the weld pool are almost completely eliminated. Super Active now possesses a 200W wire feed motor and a direct drive to the wire feed rollers which increases wire feed

Panasonic Industry Europe GmbH
Robot & Welding
Jagenbergstraße 11a
41468 Neuss, Germany
eu.industrial.panasonic.com
www.panasonic.eu

Press contact:
Akira Saito
Phone: +49 (0) 2131 608 99 0
eu.industrial.panasonic.com

accuracy. Reciprocation speed can be higher than 150 times a second. A forced air cooling system built into the welding torch has allowed us to increase the performance envelope giving a 100% duty cycle of 245A using mix gas or 310A using CO².

Irrespective of the material to be welded, whether Aluminium MIG continuous or stitch welding using our specially tailored Aluminium software, steel MAG utilizing HBC (Heat Balance Control) which is perfectly suited to welding the increasingly thinner high strength steels used in the automobile industry, Zi-Tech technology for the low spatter / porosity welding of zinc plated steel, or Austenitic/Ferritic stainless steel welding with greatly reduced distortion, we are sure to have an answer to your specific welding application. Please see for yourself the Super Active TAWERS low spatter and high speed welding at Panasonic booth.

About Panasonic Industry Europe

Panasonic Industry Europe GmbH is part of the global Panasonic Group and provides industrial products and services in Europe. As a partner for the industry sector, Panasonic researches, develops, manufactures and supplies technologies that support the slogan "A Better Life, A Better World". Looking back on 100 year of engineering knowhow in electronics, Panasonic is the right supplier when it comes to engineering expertise combined with solution competence. The portfolio covers key electronic components, devices and modules up to complete solutions and production equipment for manufacturing lines across a broad range of industries. Panasonic Industry Europe is part of the global company Panasonic Automotive and Industrial Systems, which generates over one third of Panasonic's overall revenue. More: <http://industry.panasonic.eu>