



**AKGEC-Fronius**

ADVANCE WELDING TECHNOLOGY  
AND RESEARCH CENTRE

# TPS GMAW System



The TransPuls Synergic GMAW system comprises of a fully digitised and microprocessor-controlled MIG/MAG power source with an output of 320 A. The power source gives the best weld properties in every respect and gives reproducible results. The multi-process power source is suitable for MIG/MAG, TIG and electrode welding, as well as manual or robotic applications. Equipped with Digital Inverter Technology which makes it extremely energy efficient and micro-processor controlled with self-check system: having digital display for easy troubleshooting.

The machine produces excellent arc performance with the help of some outstanding features such as "Adaptive Arc Control" maintains constant arc length with varying stick out, "Special Starting Features" helps in creating smooth arc starts at any setting, pre-programmed "Puls Wave Forms" gives excellent performance on a wide range of materials and thicknesses and comprises of extensive database for all alloys. Syncropulse mode can produce weld beads having "TIG like appearance" of MIG welds. Synergic operation gives optimum welding parameters. Simply select material and sheet thickness and the stored know-how controls the welding process automatically.

## Machine Specification

Current Range : 3 to 320 amp  
Open Circuit Voltage : 70 to 80 V  
Operating Voltage : 14.2 - 30 V

Degree of Protection : IP 23  
Duty Cycle : 90% @ 320 amp,  
100% @ 300 amp