



TAIYO NIPPON SANSCO
The Gas Professionals

April 1, 2016

Taiyo Nippon Sanso Corporation

Development of the Plasma Welding System, SANARC[®] PLASMA MEISTER

Taiyo Nippon Sanso Corporation (TNSC; President and CEO: Yujiro Ichihara) announces that it has developed a new high-efficiency plasma welding system.

The plasma welding method, in comparison to the tungsten-inert-gas (TIG) welding method, produces little heat distortion and is a welding method capable of significantly improving the welding speed. In addition, whereas both consumable electrode arc welding and submerged arc welding both required two-sided welding, the user can change to one-sided welding with the plasma welding method, thereby greatly reducing the cost of welding work.

The new system employs a newly developed plasma control method, using a commercially available TIG welding power source, to achieve plasma welding.

For the pilot gas, TNSC uses exclusive shielding gases such as PH SANARC[®] or AH SANARC[®], thereby enabling the new system's characteristics to be further improved.

The new system is configured from the following units.

(1) A dedicated plasma control unit



(2) A plasma welding torch and filler unit



(3) Pilot gas and shielding gases (exclusively from SANARC[®])

