



PROFESSIONAL IN WELDING

HSA

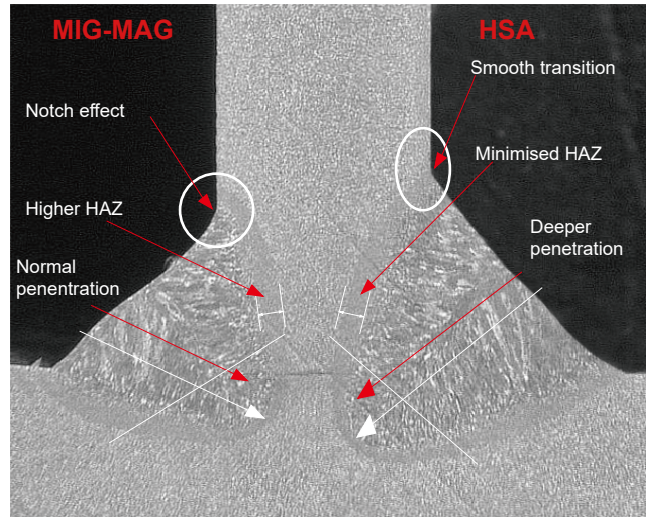
HIGH SPEED SPRAY ARC

Extra Concentrated Arc | Extra Deep Penetration | Extra High Productivity



THE HIGH SPEED SPRAY ARC WELDING PROCESS

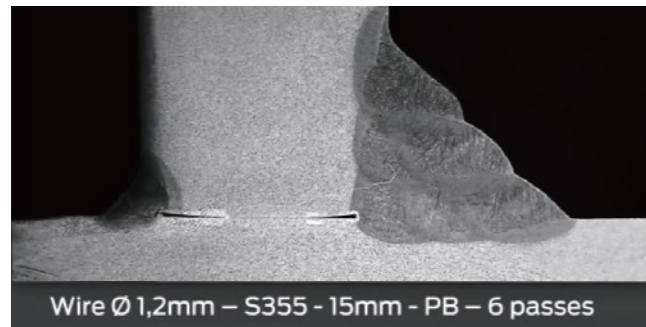
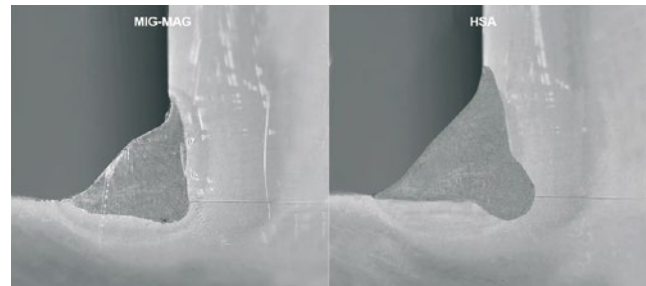
HSA, the High-Speed Spray Arc, stands out by its perfect combination of a highly concentrated and extremely stable arc with higher density. HSA delivers deeper penetration, narrower heating zone, less distortion and undercuts, allowing smaller opening angles for narrow gap welding and multi-pass welding, significantly improves the welding speed up to 30% faster than conventional MIG-MAG welding. It makes welding more efficient and more economical.



THE ADVANTAGES

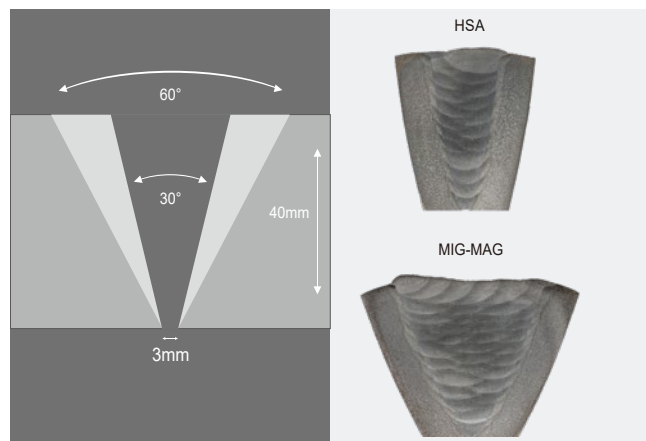
• More concentrated arc

- HSA has been transmitting energy in the form of spray at a high level, while the shorter arc length further compresses the arc, resulting in more concentrated energy, more directional arc, and deeper penetration;
- The compressed arc can better control the heat, and the arc has a smaller range, resulting in less heat-affected areas and deformation, ideal for multi-layer welding applications.



• More stable arc

- 30 ° is entirely sufficient a weld prep to weld a proper seam. This helps conserve both valuable time and precious material.
- The wire extension can reach 4cm, and the arc stability is not changed by the change of wire extension, which is more suitable for narrow seam welding.

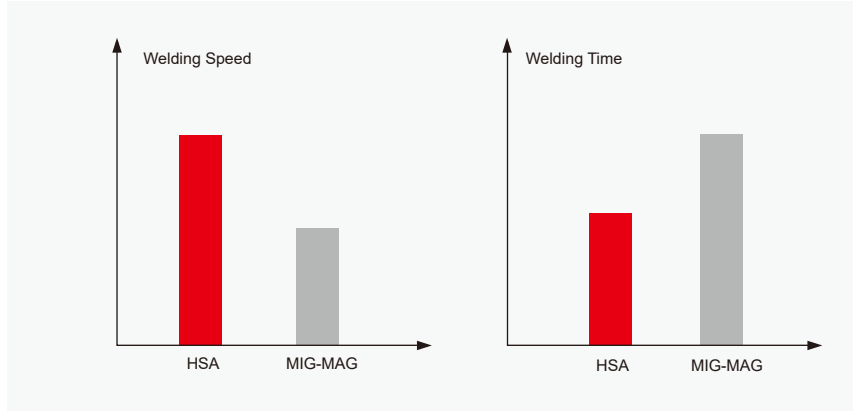


• **Higher welding efficiency**

- Up to 10 times welding speed than conventional MIG/MAG welding.
- One-side welding with back formation for thin plat, up to 15mm thick could be joined in one single pass.

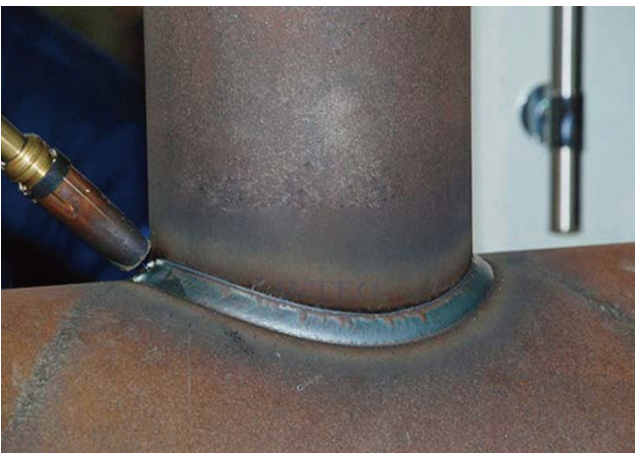
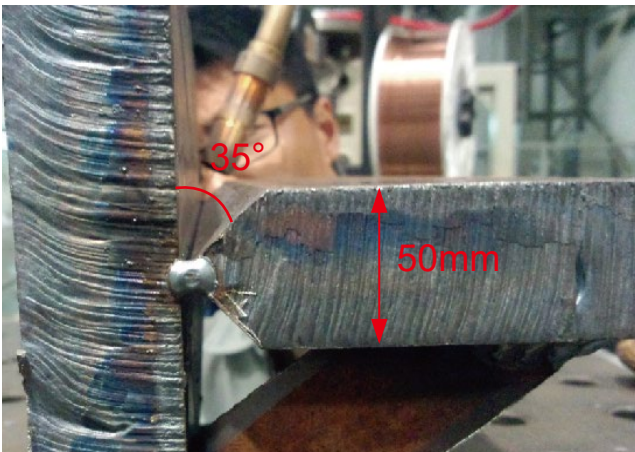


Single side 15° groove, No clearance, No blunt edge



Comparing by same M.S. plate: L=15cm T=6mm

THE APPLICATIONS OF HSA



RELATED PRODUCTS



PROWAVE SERIES / PROMIG SERIES / STEELMATE SERIES



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