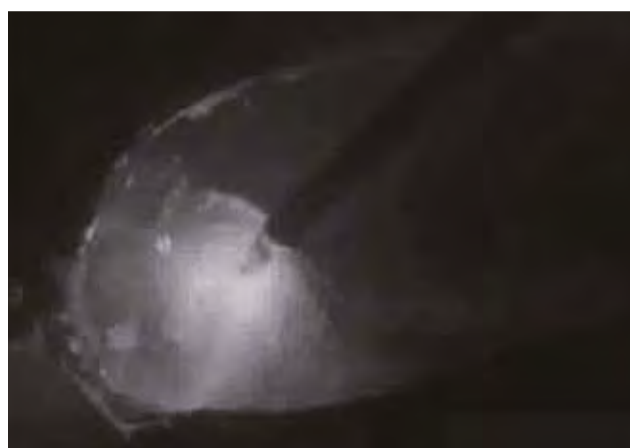


Ultra High Current GMAW Process

Stable Spray arc at over 500A presents "High Efficiency, Low Spatter Welding"

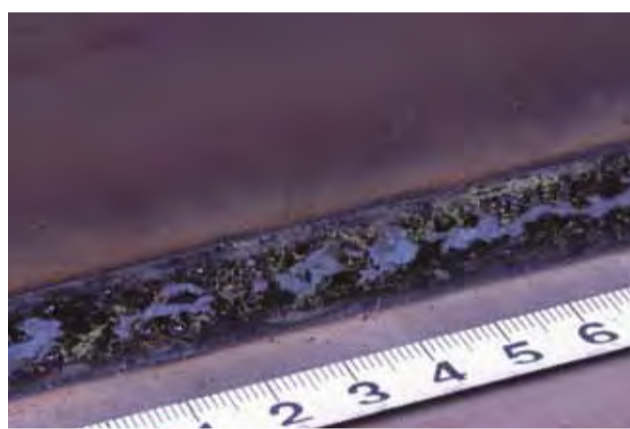
Stable Spray Arc & Extra Low spatter



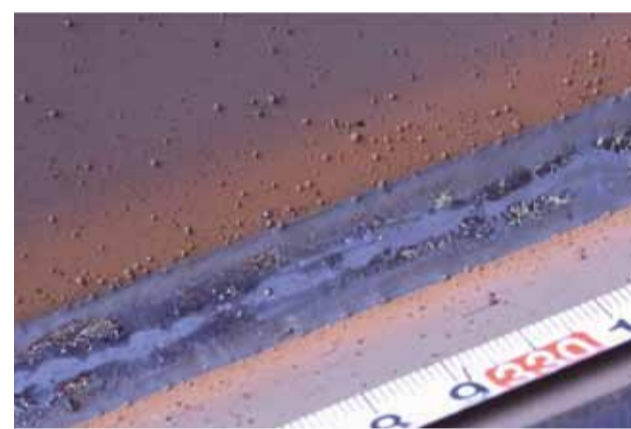
Ultra High Current GMAW Process



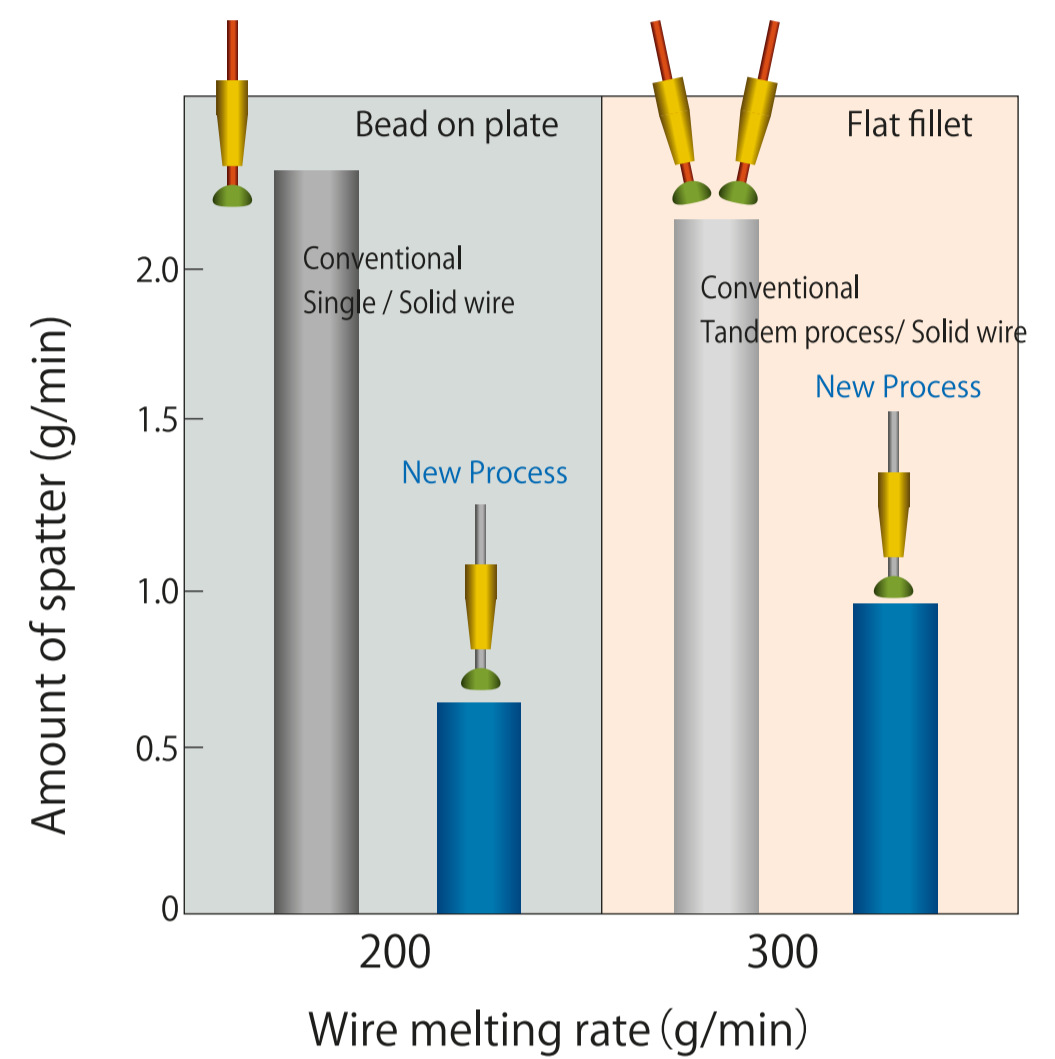
Conventional process



Ultra High Current GMAW Process



Conventional process



Deep penetration

● Ultra High Current GMAW Process offers deeper penetration than conventional Tandem process.

Ultra High Current GMAW Process

Penetration depth : 5.0mm

Welding current : 600A
Welding speed : 33cm / min



Conventional : Tandem process

Penetration depth : 2.5mm

Welding current : L:350A T:320A
Welding speed : 1P 55cm / min,
2P 40cm / min



Flat fillet welding (Leg length 15mm)

Benefits of Ultra High Current GMAW Process and Tandem Process

Ultra High Current GMAW Process has advantage of easier teaching operation and less unwelded portion

	New Process	Tandem process Solid wire
Deposition rate	◎	◎
Spatter	◎	△
Maximum welding speed	○	◎
Depth of penetration	◎	△
Operationability	◎	△
Shielding gas cost	◎	△

Composition of Ultra High Current GMAW Process

- Welding robot
ARCMAN™ -MP
- Welding wire
FAMILIARC™ MX-A100D 1.4mmφ
- Power source
SENSARC™ AB500 Parallel running system

