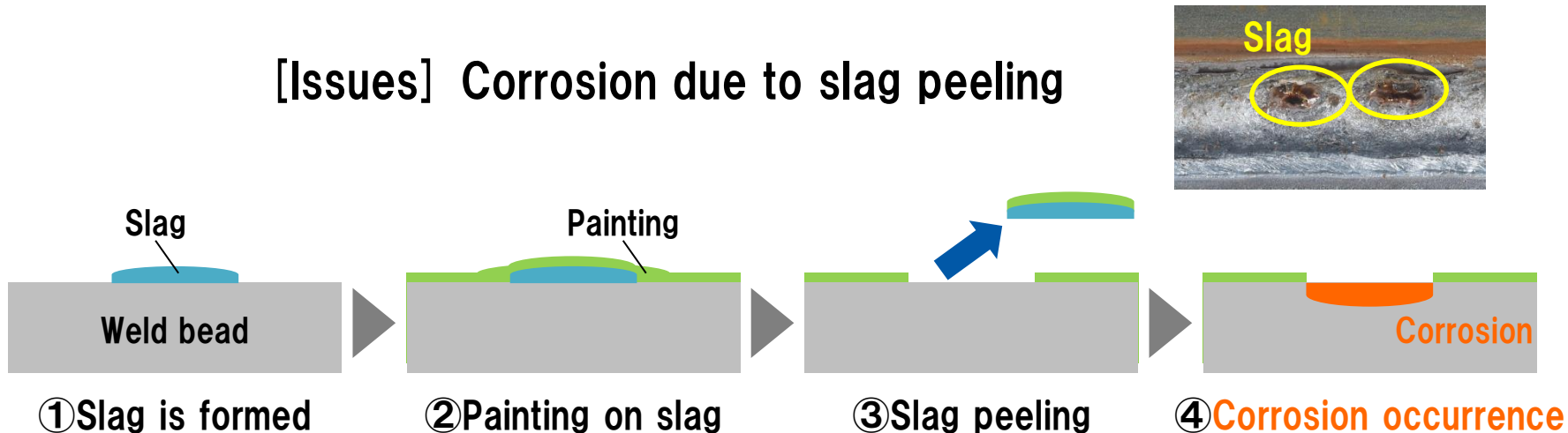




Ultra Low Spatter Welding of Low Slag Wire

Synchro Feed Evolution

[Issues] Corrosion due to slag peeling



[Countermeasures] Adoption of wire with reduced slag generation

↳ "Low Slag Wire"

Sputter increase

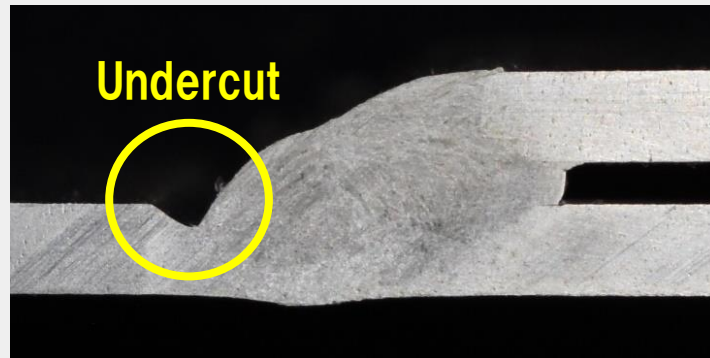
Droplet explodes!



Requires post-processing

Undercut occurrence

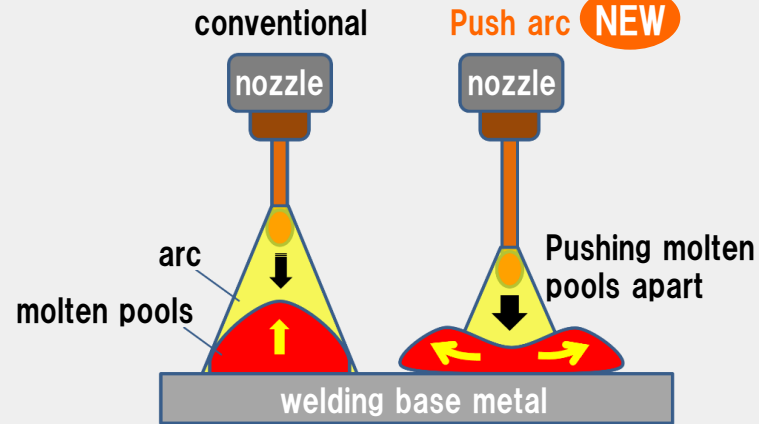
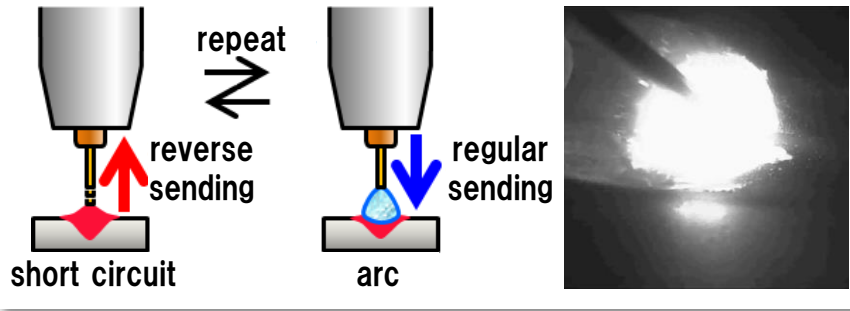
Undercut



Decrease in production efficiency

Push Arc Solves Issues

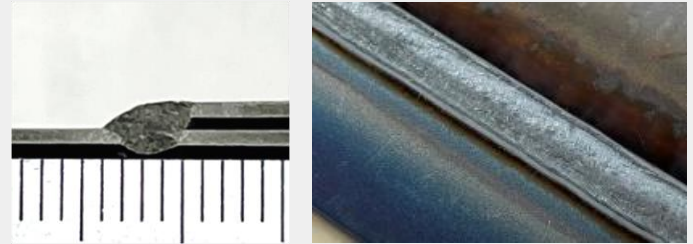
Synchro-feed push-arc process



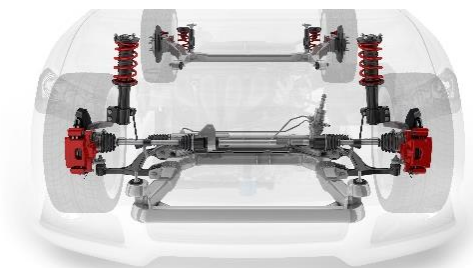
Ultra-low spatter welding



Wide bead with a high margin



Lap welding with gap



Automotive suspension parts

Welding conditions	
Welding current and voltage	290 A、18.0 V
Welding speed	100 cm / portion
Wire	MIX-1TR (low-slag wire) 1.2 mm Φ
Fitting	Lap joint (plate thickness 1.6 mmt)
Gap	1 mm

Ultra-low spatter welding of low-slag wire contributes to higher efficiency in automotive plants

DAIHEN