



Most Suitable for EV Production Sites. High-quality Welding that Contributes to Zero Rework

Synchro-feed Evolution

Achieving carbon neutrality

<Vehicle weight reduction>

<EV shift>



Reduction of iron materials



Equipped with battery

Increased use of aluminum

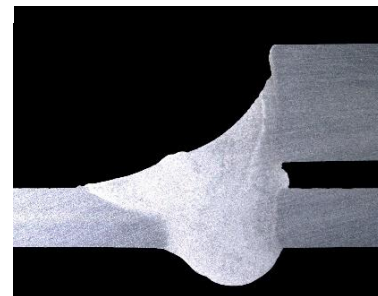


Aluminum welding challenges

Poor appearance

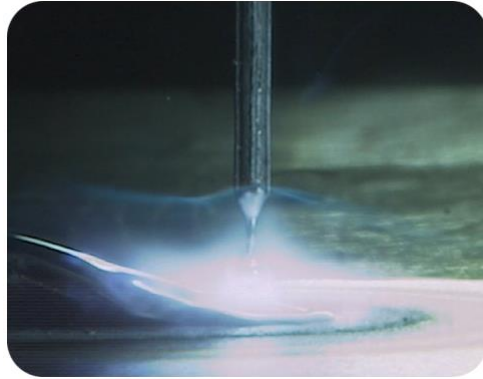


burn through



Requires post-processing such as rework

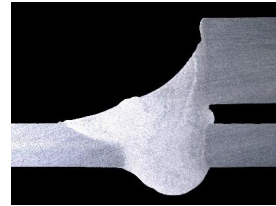
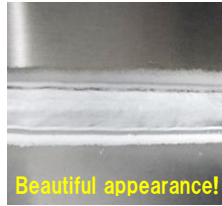
Synchro feed high quality aluminum welding



Unique current waveform control

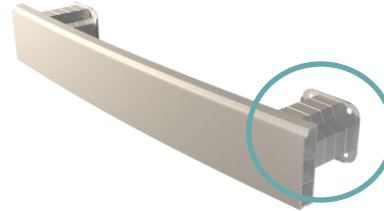


High shielding torch



Zero post-processing such as rework

T-shaped fillet weld



Crash box for EV, HV, etc.

Welding conditions

Welding current/voltage: 130A, 12.5V

welding speed: 60cm/min

Base material: A6061 2mmt

welding method: DC Synchro-feed welding

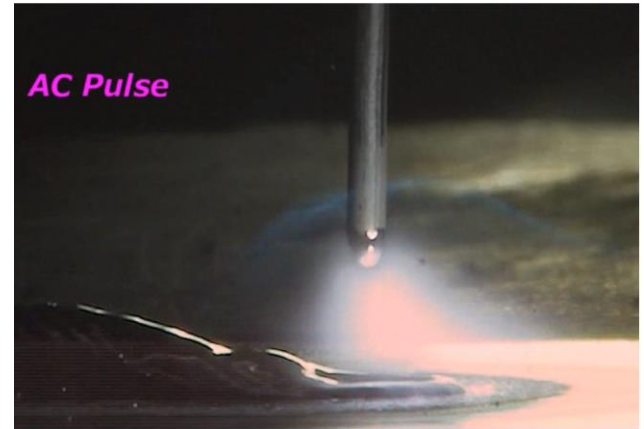
Wire: A4047 1.2mm Φ

Realizes high-level heat input control!

【Very low heat】
AC Synchro-feed welding



【High heat input】
Pulse welding



Lap welding of different plate thicknesses



EV battery case

Welding conditions

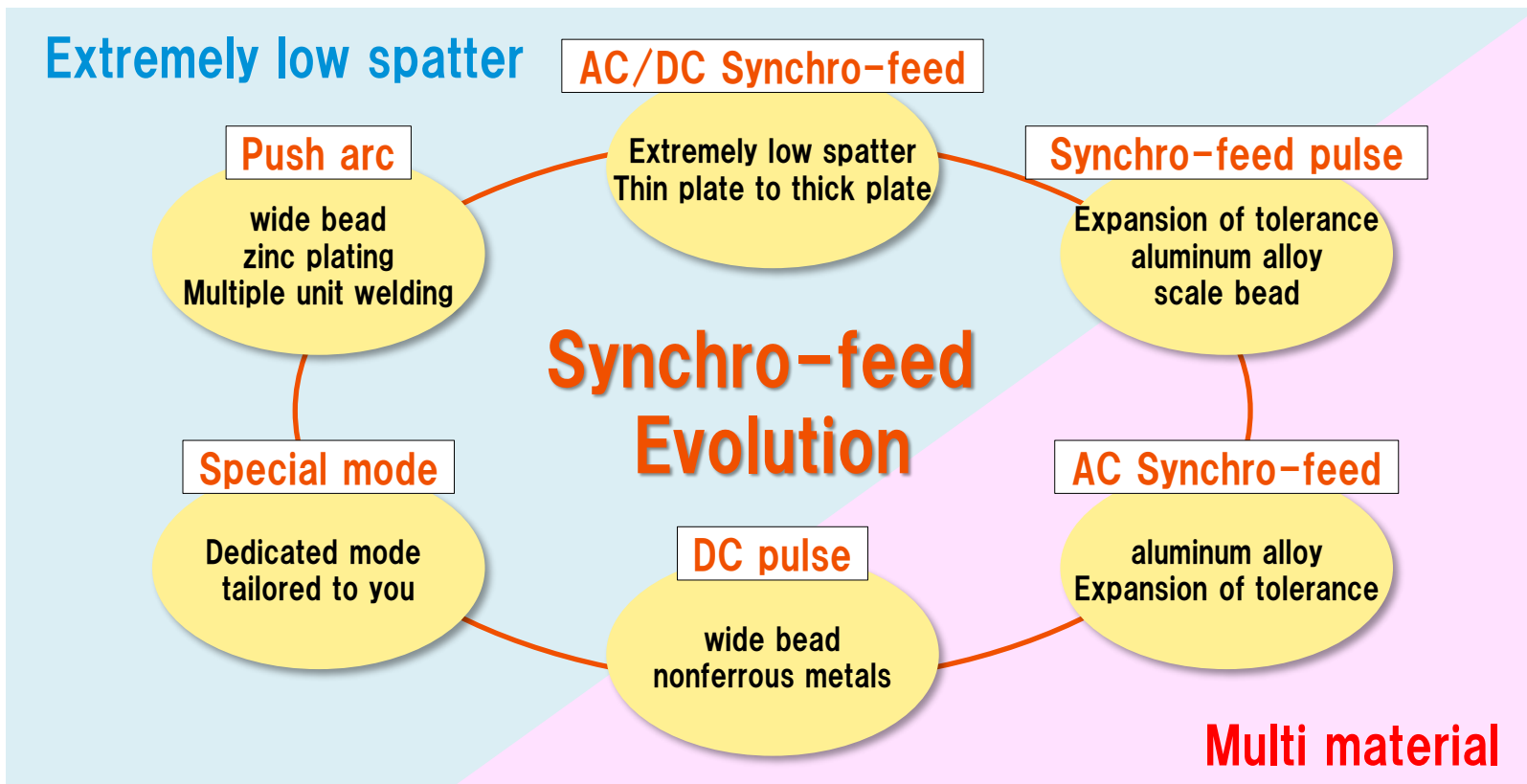
Welding current/voltage: 125A, 14.0V

welding speed: 60cm/min

Base material: A6061 Upper plate 3mmt, lower plate 2mmt (gap 1mm)

welding method: AC Synchro-feed pulse welding

Wire: A4047 1.2mm Φ



Synchro-feed Evolution's high-quality welding contributes to manufacturing that is friendly to people and the environment.

DAIHEN