



75% Less Spatter | Lower Filler Consumption | 25% Savings On Gas Costs | Greater Penetration

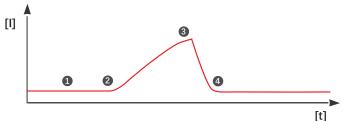


## THE ULTRA LOW SPATTERS WELDING PROCESS

The ULS process is a modified shourt-arc transfer arc, it controls the volatility during the change of state between short and arc to control the amount and size of the spatter generated.

#### Standard Short Circuit Transfer Arc

As soon as the short circuit is detected the current is increased. The arc ignites at a relatively high short circuit current and high arc pressure. This can lead to welding spatter and instabilities.

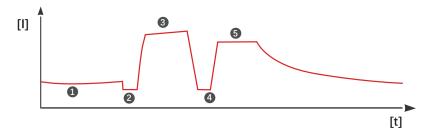


#### Standard-Short arc

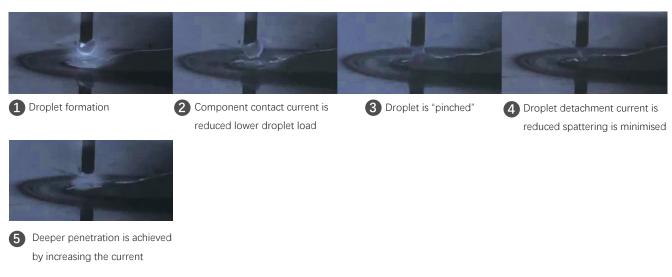


### **ULS TRANSFER ARC**

The ULS principle of reignition at a relatively low current level constitutes a significant difference with regard to the standard dip transfer arc. The short circuit is triggered at a low current level, which leads to soft reignition and a stable welding process.



#### **ULS-Short arc**



## THE ADVANTAGES

#### **UP TO 75% LESS SPATTER**

1 Less rework

2 Lower filler material consumption

**3** Fewer rejects

4 Less cleaning required and savings on wearing parts

### **UP TO 25% SAVINGS ON GAS COSTS**

- 1 Lower gas costs through the use of 100% CO2
- 2 Greater penetration through the use of 100% CO2

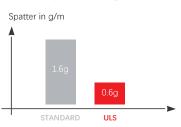
#### HIGH PROCESS STABILITY

- 1 Improved process stability in the area of the intermediate arc
- 2 No additional sensor line needed

#### **High Process Stability**

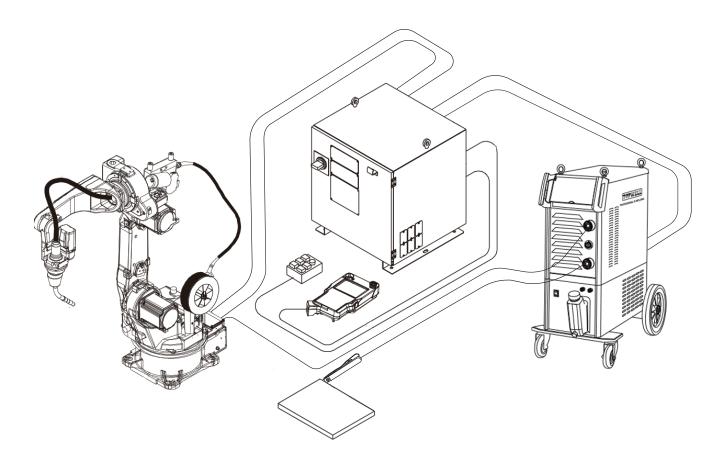


#### **Extrmely Little Spatter**



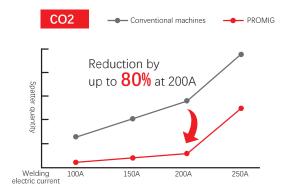
## THE ULS IS DESIGNED FOR WELDING WITH ROBOT OR CARRIAGE

Welding with Robot or carriage to ensure an excellent performance.

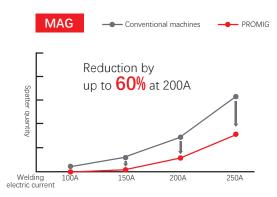


## ULS PERFORMANCE IN CO2 AND MAG WELDING PROCESS

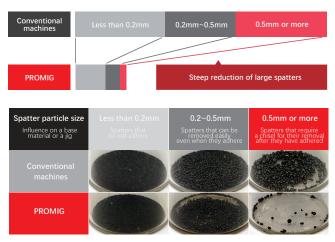
# Realization of low-spatter generation equivalent to MAG welding even using CO2 welding



Reducing spatters to the utmost limit even by MAG welding



Furthermore, the adhesion of generated spatters to a base material or a jig can be reduced owing to the small particle forms. As a result, you can significantly reduce the number of man-hours required for removing spatters, leading to a reduction in the frequency of cleanup work of the nozzle.



·Welding electric current:200A ·Welding speed:50cm/min · Wire size:q1.2mm ·Shield gas:CO2 ·Welding time:2.5min

- $\cdot$  Welding current: 130A  $\,\cdot$  Shield gas: MAG
- · Plate thickness: 1.6mm

## ULTRA LOW-SPATTER PERFORMANCE IN ROOT WELDING PROCESS





With challenging root passes where a higher arc pressure is required, the ULS Root characteristic impresses above all with its ease of use and perfect root formation.

## **RELATED PRODUCTS**



#### **PROMIG-360SYN DPulse**

Input Voltage: 3PH ~ 400V ±15% Rated Output(40°C): 360A @ 60%



#### **PROMIG-500SYN DPulse**

Input Voltage: 3PH ~ 400V ±15% Rated Output(40°C) 500A @ 100%





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