

# UP TO 50%



# HYPERFILL®

TWIN WIRE FCAW SOLUTION



#### Introducing the HyperFill®

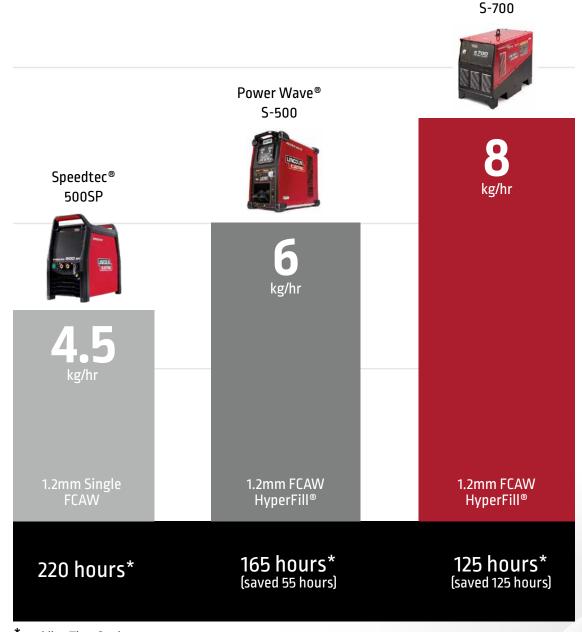
The HyperFill® twin-wire MIG solution was developed to revolutionize heavy fabrication productivity. Designed for semiautomatic and robotic applications, HyperFill® redefines high deposition welding — allowing you to make **larger welds, faster** and **more easily.** 

With its innovative twin-wire design, HyperFill® allows for deposition rates above 6 kgs/hr (8+ kgs/hr robotically) with Gas Shielded Flux Cored Wires without compromising weld quality or operator ease-of-use.

- **Maximize productivity** Increases deposition rates over single wire applications
- >> Improve weld quality Stable arc for easy control of large weld puddles
- **Low system complexity** Powered by a single power source. Fed through a single wire feeder and single contact tip

Power Wave®

#### **Deposition Rates Comparison**



<sup>\*</sup> Welding Time Study:

Arc time to deposit 1000kg of weld metal at 100% operating factor

### **Cost Analysis**

	Welding Process	1.2mm Single	1.2mm FCAW HyperFill®		
	vveiunig Flucess	FCAW	Semi-Automatic with Power Wave® S500	Automatic with Power Wave® S700	
PA Position	Deposition Rate (kg/hr) @ 100%	4.3	6	8	
	% Difference	-	33% ↑	60% ↑	
	Labour & OH Cost per item	155000	111000	83300	
	% Difference	-	33% ↓	60% 🕹	
	Potential Savings	-	44K€	74K€	

			1.2mm FCAW HYPERFILL		
	Welding Process	1.2mm Single FCAW	Semi-Automatic with Power Wave® 5500		
PF Position	Deposition Rate (kg/hr)	2.6	3.6		
	% Difference	-	32% ↑		
	Labour & OH Cost per item	256000	185000		
	% Difference	-	33% ↓		
	Potential Annual Savings	_	64K€		

Cost analysis above are done with the following assumptions:

- · Weld metal to be deposited: 5000Kg
- · Operating factor 30% in semi-automatic 60% in automatic
- Labour & overhead cost 40€ per operator/hour in semi-automatic –80€ per operator/hour in automatic
- · Weld metal to be deposited: 1000Kg
- $\cdot$  Downhand position



## **Typical welding parameters**

Welding Procedure									
	Process	Shielding Gas	Wire type	Amps / Wire Feed Speed	Volts	Travel Speed (cm/min)	Heat input (kJ/mm)	Dep. Rate (Kg/hr)	
PA Position		M21	Fluxofil 1.2mm	350-360A 8-9m/min	29-30V	22-30	2-2.5	6	
PF Position	HyperFill			240-270A 4-4.5m/min	24-25V	22-27	1.0-1.5	3.6	

HyperFill® will provide all users with the opportunity to achieve higher deposition rates, faster travel speeds and make bigger welds with greater ease.

#### **MINIMAL COMPLEXITY:**

- » Single feeder
- » Single gun liner
- » Single power source » Single contact tip
  - » Single watercooler
  - » Single electrical arc



#### HYPERFILL® & THE REVEAL™ PLATFORM

The REVEAL Platform is an embedded software package that is integrated into all Lincoln Electric® Advanced Process Welding equipment. Using a simple scanning function, the REVEAL Platform allows users to activate certain process-optimized solutions that use multiple Lincoln Electric components – such as a power source, specific weld mode, and consumable – in order to maximize welding performance and deliver the true value of the solution.

