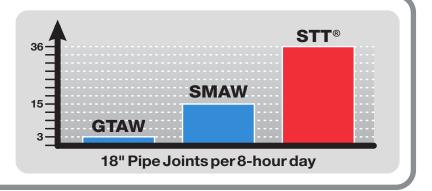
## STT® Pipe Root Pass Synergic Weld Process

STT<sup>™</sup> – Fill any open root, anywhere.

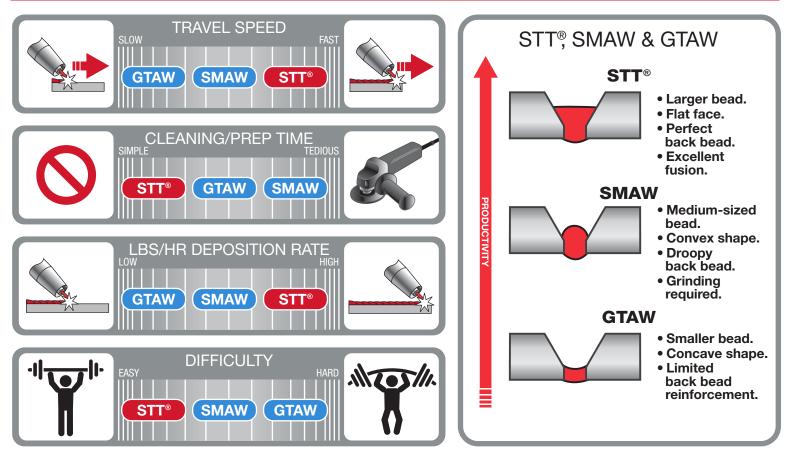
- 2 times faster than SMAW
- 4 times faster than GTAW
- Requires less operator skill
- Meets low Hydrogen requirements



The patented **STT**<sup>®</sup> (Surface Tension Transfer) is a modified GMAW short circuit welding process, designed for open root welding. This unique process simplifies open root welding, requiring less operator experience to implement. **STT**<sup>®</sup> is a proven pipeline process, produces excellent quality welds, and improves productivity over

more traditional SMAW & GTAW root welding methods. These results are due to the patented design of this process, eliminating common problems such as burnthrough and lack of fusion commonly associated with standard short-circuit transfer.

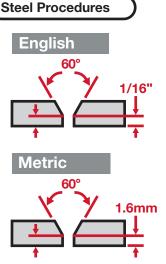
## **FEATURES**



The Performance You Need. The Quality You Expect.

LINCOLN

## Applications



Trim and Ultimarc should be
used at the nominal settings.
Adjust to application settings.

	*	.035	100% CO2	3/8"-1/2"	.08100"	150-225 in./min
			ARGON / MIX	3/8"-1/2"	.100125"	150-225 in./min
				T.	đb	olo
	*	.040	100% CO2	3/8"-1/2"	.08100"	140-200 in./min
			ARGON / MIX	3/8"-1/2"	.100125"	140-225 in./min
	*	1.0mm	100% CO2	10-13mm	2.0-2.5mm	3.4-4.6 m/min
			ARGON / MIX	10-13mm	2.5-3.2mm	3.4-5.1 m/min
n				L I	đħ	olo
	*	.045	100% CO2	3/8"-1/2"	.08100"	150-225 in./min
			ARGON / MIX	3/8"-1/2"	.100125"	150-225 in./min
	*	1.2mm	100% CO2	10-13mm	2.0-2.5mm	2.8-3.8 m/min

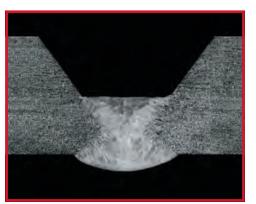
ARGON / MIX | 10-13mm | 2.5-3.2mm

H

15

00

3-4 m/min

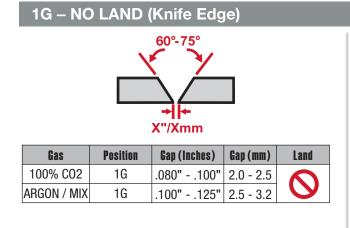


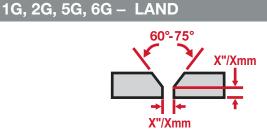
Typical STT Root Pass Macro.

\*See the STT<sup>™</sup> weld process guide for: technical data, proper set-up, application settings and troubleshooting.

Joint Preparation

See Customer Assistance Policy and Disclaimer Notice.





Gas	Position	Gap (Inches)	Gap (mm)	Land (Inches)	Land (mm)
100% CO2	1G	.100"125"	2.5 - 3.2	.060"125"	1.5 - 2.0
100% CO2	2G, 5G, 6G	.100"125"	3.2 - 4.0	.060"125"	1.5 - 2.0
ARGON / MIX	1G	.125"156"	3.2 - 4.0	.060"125"	1.5 - 2.0
ARGON / MIX	2G, 5G, 6G	.125"156"	3.2 - 4.0	.060"125"	1.5 - 2.0

## **Recommended Equipment**

Power Source	Wire Feeder	Accessories
Power Wave® S350, R350, S500 or R500 w/ Digital STT <sup>®</sup> Module or Advanced Module	Power Feed <sup>®</sup> 84 or 25M	SuperArc® Wire SupraMig <sup>®</sup> Magnum® Pro Gun

Customer Assistance Policy

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customer and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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