

## TRANSPORTATION.

This facility has a line pipe storage capacity of 84 hectares used for shipment and delivery.



### PLANT 6 - JCO / SAWL

N.P.S.	WALL THICKNESS																STEEL GRADE											
	IN	MM	0.375	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.625	1.750	1.875	2.00	2.125	2.250	2.375	2.500	X-42	X-52	X-65	X-70	X-80	X-100		
MM	MM	9.53	12.70	15.90	19.10	22.20	25.40	28.60	31.80	34.90	38.10	41.20	44.45	47.63	50.80	53.98	57.20	60.30	63.50									
18	457																											
20	508																											
22	559																											
24	610																											
28	711																											
30	762																											
32	813																											
36	914																											
40	1016																											
42	1067																											
44	1118																											
48	1219																											
52	1321																											
54	1372																											
56	1422																											
60	1524																											



Steel grade (API).  
Process.  
Annual Installed Capacity.  
Diameters.  
Wall Thickness.  
Length.

Pipe	Coating
Up to X100.	—
SAWL	—
280,000 Metric Tons.	350 m <sup>2</sup> / hr.
18" - 60"	12.75" - 48"
Up to 2.5"	up to 1.5"
12 M.	12 M.

## Tubacero

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# PIPE SAWL

Pánuco, Veracruz.  
Plant 6.



This facility specializes in the production of longitudinal submerged arc welding in diameters from 18 to 60 inches and wall thicknesses from 3/8" to 2.5 inches, for the oil and gas (sour and non-sour service) markets, particularly focusing on deep-water and structural pipe for offshore fabrication.

A production capacity of 280 thousand tons, included in Tubacero's annual installed capacity of 1 million tons.

## STATE-OF-THE-ART TECHNOLOGY.

- PLATE SQUARENESS.
- LONGITUDINAL EDGE MILLING AND CRIMPING.
- FORMING PROCESS (JCO).

## SAWL PROCESS.

- TACK WELDING.
- INTERNAL SUBMERGED ARC WELDING.
- EXTERNAL SUBMERGED ARC WELDING.

## MECHANICAL EXPANSION.

This process mechanically expands the pipe, reaching an optimal dimensional condition to the girth welding process in the field.

## BEVELING MACHINE.

Machined at the ends of the pipe, used to prepare for welding in the field.

## FINAL TESTS.

- HYDROSTATIC TEST.
- X-RAYS.
- ULTRASONIC INSPECTION.
- FINAL INSPECTION.

## OUTER SURFACE COATING.

Types of anti-corrosion coatings:

**FBE:** Fusion Bonded Epoxy.

**FBE DUAL:** 2-layer systems: abrasion resistant or high temperature.

**3LPE:** 3-layer polyethylene system.

**3LPP:** 3-layer polypropylene system.

## COATING QUALITY ASSURANCE.

100% of the pipes are inspected and the coating thickness and surface are measured by performing an electrical test to detect any coating discrepancies.

## SPECIALIZED LABS.

ISO/IEC 17025 certified, our laboratories are fully equipped to perform all necessary tests for pipe certification (API 2B-100), for example:

- CATHODIC DISBONDED TEST.
- DIFERENTIAL SCANNING CALORIMETRY.
- HOT WATER INMERTION
- ADHESION TEST.
- IMPACT TEST.
- ELONGATION.
- POROSITY TEST.
- FLEXIBILITY TEST.

