



**TANGSHAN IRON & STEEL CORP.,
TANGSHAN, PR CHINA**
NEW GALVANIZING LINES #5 & #6

METAL COATING LINE TO PRODUCE HIGH END QUALITY TO SERVE THE AUTOMOTIVE MARKET

BENEFITS

- High capacity line production with high flexibility in product changes
- State-of-the-art continuous galvanizing lines able to produce the latest generation of High-Strength Steel for Chinese and international automotive market.
- Through the seamless integration of the production equipment and automation, Primetals Technologies has full control over productivity, quality and availability, which are key factors for profitability
- Light-weight coils production with full line capacity to answer Chinese market demand



Tangshan Iron and Steel Group Co. Ltd., a Chinese steel producer, has awarded Primetals Technologies an order to supply two continuous galvanizing lines to expand cold rolling mill no. 2 at its Tangshan plant in Hebei Province.

This will increase the production capacity for high-strength, coated metal sheets by 650,000 metric tons per annum. The sheets will mainly be used by the automotive industry.

Continuous galvanizing lines nos. 5 and 6 will be constructed in a new hall alongside the existing cold rolling mill. This was also supplied by Primetals Technologies, and has been in production since the beginning of 2015.

The two new continuous galvanizing lines are scheduled to come into operation in 2017.

A special aluminum-silicon coating technology package will be installed on one line.

The two new continuous galvanizing lines are scheduled to come into operation in 2017 with production of the first coils in 18.5 months for CGL6 and 21 months for CGL5.

SCOPE OF SUPPLY

- Coil charging section equipped with an entry walking beam, a shuttle coil car, and an automatic unstrapping and a weighing station
- Entry section with a double payoff reel and scrap evacuation outside the building
- Welding section equipped with a laser welding machine including entry and exit centering units and a notcher
- A 16-strand entry looper with a capacity of 400 meters and a top movable carriage
- Cleaning section including 1 vertical dip dunk tank with spray, 1 brush scrubber, 1 vertical electrolytic cleaning tank, 1 brush scrubber and 1 HP rinsing tank
- Furnace section equipped with an ART (all-radiant tubes) furnace technology
- Coating section including a wiping system, a zinc pot and associated equipment
- Cooling section comprising an APC tower and quenching system
- A 16-strand intermediate looper with a capacity of 400 meters and a top movable carriage
- TM-TL section equipped with a 4-high temper mill, a shapemeter, a roughness gauge (CGL no.6 only), and a tension leveler

- A mechanical properties measurement system (CGL no.6 only)
- Post-treatment section including 2 vertical roll coaters
- Exit looper with a capacity of 290 meters and a top movable carriage
- Side-trimming section equipped with a side trimmer and a scrap chopper (CGL no.6 only)
- Inspection section including a vertical and horizontal inspection station
- Exit section with an electrostatic oiling machine, a double tension reel, and scrap evacuation outside the building
- Coil discharging section equipped with an exit walking beam, a shuttle coil car, an automatic strapping machine, and a weighing station
- Electrical and automation equipment
- Know-How package

PLANT DATA CGL#5

Material to be processed	Cold rolled steel
Production capacity	250,000 t/y
Product grade	CQ, DQ, IF, HSS, BH, DP
Strip thickness	0.18 to 1.50 mm
Strip width	850 to 1,300 mm
Line speed	
Entry & Exit section	max. 250 m/min
Process section	max. 180 m/min
Coating type	GI

PLANT DATA CGL#6

Material to be processed	Cold rolled steel
Production capacity	400,000 t/y
Product grade	CQ, DQ, IF, HSS, BH, DP
Strip thickness	0.50 to 3.00 mm
Strip width	850 to 1,600 mm
Line speed	
Entry & Exit section	max. 250 m/min
Process section	max. 180 m/min
Coating type	GI, AISi

Primetals Technologies France SAS

A joint venture of Mitsubishi Heavy Industries and partners

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