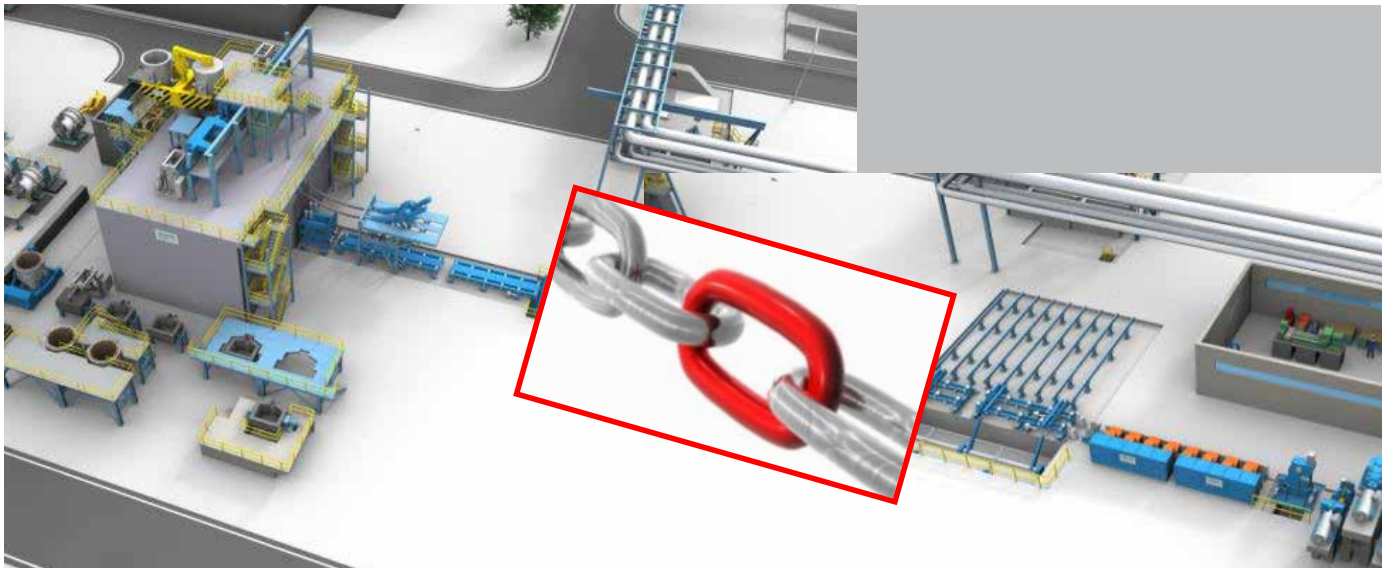
WINLINK DIRECT ROLLING
MINIMUM FINAL COST THROUGH HIGH-LEVEL TECHNOLOGIES

WinLink is the innovative technology addressed to product-cost based markets, where a significant reduction of both capital and operation expenditures are required.

WinLink provides the reduction of the total final product cost through high-level technological solutions, in a compact installation. Direct and endless casting and rolling offer significant savings of energy consumption and CO_2 emissions.

FIELD OF APPLICATION
Rolling mills for long products

MAIN BENEFITS
- CAPEX: smaller footprint, fewer equipment, smaller infrastructure and civil works
- OPEX: Less energy consumption, higher yield, fewer personnel, smaller inventories
- Enviroment: smaller land requirement, lower CO_2 emissions, savings of energy and water
- Shorter time of transformation from scrap to rebar
- Quick break-even time of investment



MAIN FEATURES

WinLink is the innovative technology for the endless and semi-endless production of long products without interruption of continuity.

WinLink directly links a 2-strand high-speed caster to a high-availability rolling mill, where the conventional billet reheating furnace is replaced by an advanced heating unit, resulting in a compact and energy efficient production line.

While strand #1 directly feeds the rolling mill, strand #2 exploits the longer availability of meltshop, and produces saleable billets. The semi-endless operation improves the mill productivity and the flexibility of operation.

The full utilization of meltshop is ensured.

TECHNICAL DATA

Cast billet size	from sq 130 mm to 200 x 150 mm
WinLink 55	up to 380 ktpy single linel
WinLink 70	up to 500 ktpy single line
WinLink 80	up to 600 ktpy single line
WinLink Flex	up to 750 ktpy single line
OPEX cost reduction	up to 60 %

ADVANCED ROLLING TECHNOLOGIES

A high-efficiency induction furnace replaces the conventional gas furnace. Quick change systems are used along the mill, which uses long-life rolling rings and rollers guides, to accomodate a full day uninterrupted production. Precision mass-flow gauges are used to adjust the multi-slit operation.

Yield can be further improved by cutting bars directly to commercial length. RedRing rolling stands are assisted by condition monitoring packages, to prevent failure of components and maximize its availability.

REFERENCES

- GPH, Bangladesh

Primetals Technologies Italy Srl.
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Via Pomini 92 | 20150 Marnate | Italy
primetals.com

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