

IRON and STEEL PLANT FACILITIES

Whitby Steel Mill Whitby, Ont., Canada

Electric arc steelmaking

Shop identification	Capacity, tons/year	No. of furnaces	Heat size, tons	Shell dia, ft-in.	Injectants	Transformer rating, MVA	Type of gas cleaning
No. 2	1,000,000	1	135	20-6	3 oxy-fuel burners	120	Baghouse

Ladle metallurgy

Identification	Type	Capacity, tons/year	No. of units	Heat size, tons	Injectants	Transformer rating, MVA
No. 2	Electric arc gas stirring	1,000,000	1	135	Powder: none; Wire: none	25

Continuous casting

Identification	Capacity, tons/year	Strands	Ladle capacity, tons	Product size range, in.	Shroud
No. 2 articulated dummy bar, curved mold	1,000,000	5	135	5 x 5, 5 x 7 6 x 10	None

Reheating furnaces

Mill served	Type	No. of furnaces	Capacity, tons/hr/ furnace	Hearth dimensions, ft
Bar	2-zone pusher, top-fired natural gas, alternate oil fired	1	110	36
Structural	3-zone pusher, top/ bottom-fired natural gas, alternate oil fired	1	100	36

Structural mill

Nominal size, in.	Mill capacity	Product size range, in.	No. and configuration of stands
—	650,000	Structurals 5-10 Rebar No. 14, 18 Rounds 15/8-3/8 C's 5-12 L's 3 1/2-8-8 Flats 4-12 Beams 6-8	15-stand H/V/U convertible mill

Bar mill

Nominal size, in.	Type	Mill capacity, tons/year	Product shape and size range, in.	No. and configuration of stands
—	—	500,000	Angles 1 1/2-3 1/2 Rebar No. 4-11 Rounds 1/2-1 9/16 Flats 1-4 Squares 1/2-1 1/2 Channels 3-4	18 stand continuous 1 @ 28-in. vertical 7 @ 25-in. roughing 6 @ 16-in. intermediate 4 @ 13-in. finishing