

SPECIFICATIONS

54" WIDE UNITED/MESTA HOT STRIP MILL

EQUIPMENT

MANUFACTURER: UNITED/MESTA/DAVY
AGE: 1957
UPGRADES: 1978, 1988 &
1996 – HAGC ADDED TO FINISHING MILLS. MILL CONTROLS UPGRADED

GENERAL SPECIFICATIONS:

CAPACITY: 900,000 TONS PER YEAR

TYPE: SEMI-CONTINUOUS

INPUT SLAB: 25" MIN TO 50" MAX WIDTH (635 TO 1270 MM)
6" MIN TO 8.5" MAX THICK (152 TO 216MM)
8' MIN TO 18' MAX LENGTH (2.14 TO 5.18 M)

COIL SIZE: 22" TO 49-3/4" WIDE (559/1263 MM)
27.5" I.D. (700 MM)
.06 TO .30" GAUGE (1.5 TO 7.6 MM)
80" O.D. (2030 MM)
22,000 LB. CAPACITY

SPEED: 1965 FPM (600 M/MIN)

MECHANICAL EQUIPMENT:

- (2) RUST 100 TPH PUSHER-TYPE REHEAT FURNACES
- (1) VERTICAL EDGER
- (1) UNIVERSAL REVERSING ROUGHING STAND
- COIL BOX
- FLYING CROP SHEAR
- (6) FINISHING STANDS
- COIL CONVEYOR
- DOWNCOILER

INDIVIDUAL EQUIPMENT DESCRIPTIONS

SCALEBREAKING: (1) 2-HIGH MECHANICAL TYPE CONVERTED TO HIGH PRESSURE SPRAY SYSTEM WITH 3 PUMPS

VERTICAL EDGER: 34" X 17" FACE (863 X 431 MM)
(2) 275 HP DRIVE MOTORS

DOWNCOILER: SINGLE EXPANDABLE MANDREL
(2) WRAPPER ROLL DESIGN
500 PIW
12 TONS APPROX.
275 HP DC MOTOR

ROUGHING MILL: 39" AND 54" X 58" (990 & 1371 X 1473 MM)
4-HIGH REVERSING, SINGLE STAND
TWO 5000 HP MOTORS – DIRECT DRIVE
40/100 RPM
700 VOLTS DC

FINISHING MILL: 4-HIGH STAND, SIX STAND UNITED
WORK ROLL: 25" DIA X 56" FACE (635 X 1422 MM)
BACKUP ROLL: 49" DIA X 56" FACE (1245 X 1422 MM)

STAND #1 DRIVE: 3500 HP DC MOTOR
150/300 RPM
4.26:1 GEAR REDUCER AND PINION STAND

STAND #2 DRIVE: 5000 HP DC MOTOR
150/300 RPM
3.17:1 GEAR REDUCER AND PINION STAND

STAND #3 DRIVE: 5000 HP DC MOTOR
150/300 RPM
1.9:1 GEAR REDUCER AND PINION STAND

STAND #4 DRIVE: 5000 HP DC MOTOR
150/300 RPM
WITH PINION STAND

STAND #5 DRIVE: 3500 HP DC MOTOR
135/270 RPM
WITH PINION STAND

STAND #6 DRIVE: 3500 HP DC MOTOR
150/300 RPM
WITH PINION STAND

RUNOUT TABLE: 324'

- FEATURES:
- HYDRAULIC AUTOMATIC GAUGE CONTROL
(6) FINISHING STANDS
 - HYDRAULIC WORK ROLL BENDING (6) FINISHING STANDS
 - (2) HYDRAULIC LOOPERS BETWEEN F4/F5 AND F5/F6
 - MILL AUTOMATION SYSTEM – LEVEL II

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