

EQUIPMENT SPECIFICATIONS

TANDEM MILL

21" & 53" X 56" MESTA 5 STAND TANDEM COLD ROLLING MILL
TDI REFERENCE NUMBER: 63589

MANUFACTURER: Mesta
QUANTITY: 1.00

GENERAL SPECIFICATIONS:

MANUFACTURER: Mesta

ENTRY MATERIAL: Carbon Steel

ENTRY PRODUCT DIMENSIONS:

WIDTH MINIMUM (INCHES): 18 Inches (457.200 mm)
WIDTH MAXIMUM (INCHES): 45 Inches (1,143.000 mm)
THICKNESS MINIMUM (INCHES): 0.060 Inches (1.524 mm)
THICKNESS MAXIMUM (INCHES): 0.135 Inches (3.429 mm)
DIAMETER (INCHES): 30 IDx 68 OD Inches

FINISHED PRODUCT: Coiled

STRIP:

WIDTH MINIMUM (INCHES): 18 Inches (457.200 mm)
WIDTH MAXIMUM (INCHES): 45 Inches (1,143.000 mm)
THICKNESS MINIMUM (INCHES): 0.007 Inches (0.180 mm)
THICKNESS MAXIMUM (INCHES): 0.075 Inches (1.905 mm)
COIL O.D. MAXIMUM (INCHES): 68 Inches (1,727.200 mm)
COIL I.D. MINIMUM (INCHES): 20 Inches (508.000 mm)
COIL I.D. MAXIMUM (INCHES): 20 Inches (508.000 mm)
COIL WEIGHT (LBS.): 36,000 Pounds
COIL WEIGHT (TONS): 18,000 Tons

ANNUAL PRODUCTION (TPY): 500,000 Tpy

ROLLING MILL USE: Cold Reduction

ROLLING MILL DESIGN: Non Reversing

COIL PROCESSOR:

APPLICABLE: Yes

MILL STAND 1:

POST SIZE:

THICKNESS (INCHES): 29 Inches (736.600 mm)
WIDTH (INCHES): 28.250 Inches (717.550 mm)

WINDOW SIZE:

HEIGHT (INCHES): 171 Inches (4,343.400 mm)
WIDTH (INCHES): 54 Inches (1,371.600 mm)

WORK ROLLS:

ROLL DIAMETER (INCHES): 21 Inches (533.400 mm)
ROLL FACE (INCHES): 56 Inches (1,422.400 mm)
BEARING TYPE: Roller

BACK UP ROLLS:

ROLL DIAMETER (INCHES): 53 Inches (1,346.200 mm)
ROLL FACE (INCHES): 56 Inches (1,422.400 mm)
BEARING TYPE: Morgoil

DRIVEN: Work rolls

DRIVE SPINDLE TYPE: Slipper

SHOEPLATE:

SHOE / SOLE PLATE: Yes
SHOEPLATE CENTERS (INCHES): 132 Inches (3,352.800 mm)

SCREWDOWN:

EXISTS: Yes
COMPLETE: Yes
SCREWDOWN TYPE: Electro-Mechanical

MOTOR DATA:

QUANTITY: 1
HORSEPOWER: 50 HP (37.300 kw)
MOTOR MANUFACTURER: Westinghouse
RPM: 550 Rpm
VOLTS: 230

PINION STAND:

PITCH DIAMETER (INCHES): 20 Inches (508.000 mm)
HORSEPOWER: 1,500 HP (1,119.000 kw)
INPUT RPM: 70/105 Rpm
BEARING TYPE: Roller

REDUCER:

MILL DRIVE TYPE: Pinion Stand
HORSEPOWER: 1,500 HP (1,119.000 kw)
INPUT RPM: 70/105 Rpm
GEAR RATIO: 1:1
BEARING TYPE: Roller
OUTPUT SHAFT CENTERS (INCHES): 20 Inches (508.000 mm)

MAIN MILL MOTOR:

QUANTITY: 1
HORSEPOWER: 1,500 HP (1,119.000 kw)

MOTOR MANUFACTURER:	Westinghouse
RPM:	70/105 Rpm
VOLTS:	575
CURRENT:	DC
MILL STAND 2:	
POST SIZE:	
THICKNESS (INCHES):	29 Inches (736.600 mm)
WIDTH (INCHES):	28.250 Inches (717.550 mm)
WINDOW SIZE:	
HEIGHT (INCHES):	171 Inches (4,343.400 mm)
WIDTH (INCHES):	54 Inches (1,371.600 mm)
WORK ROLLS:	
ROLL DIAMETER (INCHES):	21 Inches (533.400 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Roller
BACK UP ROLLS:	
ROLL DIAMETER (INCHES):	53 Inches (1,346.200 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Morgoil
DRIVEN:	Work rolls
DRIVE SPINDLE TYPE:	Slipper
SHOEPLATE:	
SHOE / SOLE PLATE:	Yes
SHOEPLATE CENTERS (INCHES):	132 Inches (3,352.800 mm)
SCREWDOWN:	
EXISTS:	Yes
COMPLETE:	Yes
SCREWDOWN TYPE:	Electro-Mechanical
MOTOR DATA:	
QUANTITY:	1
HORSEPOWER:	50 HP (37.300 kw)
MOTOR MANUFACTURER:	Westinghouse
RPM:	550 Rpm
VOLTS:	230
PINION STAND:	
PITCH DIAMETER (INCHES):	20 Inches (508.000 mm)
HORSEPOWER:	2,500 HP (1,865.000 kw)
INPUT RPM:	125/250 Rpm
BEARING TYPE:	Roller
REDUCER:	
MILL DRIVE TYPE:	Pinion Stand
HORSEPOWER:	2,500 HP (1,865.000 kw)
INPUT RPM:	125/250 Rpm
GEAR RATIO:	1:1
BEARING TYPE:	Roller
OUTPUT SHAFT CENTERS (INCHES):	20 Inches (508.000 mm)
MAIN MILL MOTOR:	

QUANTITY:	<u>1</u>
HORSEPOWER:	2,500 HP (1,865.000 kw)
RPM:	<u>125/250 Rpm</u>
MILL STAND 3:	
POST SIZE:	
THICKNESS (INCHES):	29 Inches (736.600 mm)
WIDTH (INCHES):	<u>28.250 Inches</u> (717.550 mm)
WINDOW SIZE:	
HEIGHT (INCHES):	<u>171 Inches</u> (4,343.400 mm)
WIDTH (INCHES):	54 Inches (1,371.600 mm)
WORK ROLLS:	
ROLL DIAMETER (INCHES):	21 Inches (533.400 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	<u>Roller</u>
BACK UP ROLLS:	
ROLL DIAMETER (INCHES):	53 Inches (1,346.200 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Oil Film
DRIVEN:	<u>Work rolls</u>
DRIVE SPINDLE TYPE:	Geared
SHOEPLATE:	
SHOE / SOLE PLATE:	Yes
SHOEPLATE CENTERS (INCHES):	<u>132 Inches</u> (3,352.800 mm)
SCREWDOWN:	
EXISTS:	Yes
SCREWDOWN TYPE:	Electro-Mechanical
MOTOR DATA:	
QUANTITY:	<u>1</u>
HORSEPOWER:	50 HP (37.300 kw)
MOTOR MANUFACTURER:	Westinghouse
RPM:	550 Rpm
VOLTS:	230
PINION STAND:	
PITCH DIAMETER (INCHES):	20 Inches (508.000 mm)
HORSEPOWER:	2,500 HP (1,865.000 kw)
INPUT RPM:	<u>175/400 Rpm</u>
BEARING TYPE:	Roller
REDUCER:	
MILL DRIVE TYPE:	Pinion Stand
HORSEPOWER:	2,500 HP (1,865.000 kw)
INPUT RPM:	<u>175/400 Rpm</u>
GEAR RATIO:	1:1
BEARING TYPE:	Roller
OUTPUT SHAFT CENTERS (INCHES):	20 Inches (508.000 mm)
MAIN MILL MOTOR:	
QUANTITY:	<u>1</u>
HORSEPOWER:	2,500 HP (1,865.000 kw)

MOTOR MANUFACTURER:	Westinghouse
RPM:	175/400 Rpm
VOLTS:	575
CURRENT:	DC
MILL STAND 4:	
POST SIZE:	
THICKNESS (INCHES):	29 Inches (736.600 mm)
WIDTH (INCHES):	28.250 Inches (717.550 mm)
WINDOW SIZE:	
HEIGHT (INCHES):	171 Inches (4,343.400 mm)
WIDTH (INCHES):	54 Inches (1,371.600 mm)
WORK ROLLS:	
ROLL DIAMETER (INCHES):	21 Inches (533.400 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Roller
BACK UP ROLLS:	
ROLL DIAMETER (INCHES):	53 Inches (1,346.200 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Morgoil
DRIVEN:	Work rolls
DRIVE SPINDLE TYPE:	Geared
SHOEPLATE:	
SHOE / SOLE PLATE:	Yes
SCREWDOWN:	
EXISTS:	Yes
COMPLETE:	Yes
SCREWDOWN TYPE:	Electro-Mechanical
MOTOR DATA:	
QUANTITY:	1
HORSEPOWER:	50 HP (37.300 kw)
MOTOR MANUFACTURER:	Westinghouse
RPM:	550 Rpm
VOLTS:	230
PINION STAND:	
PITCH DIAMETER (INCHES):	20 Inches (508.000 mm)
HORSEPOWER:	2-1250 (double arm) HP
INPUT RPM:	225/525 Rpm
BEARING TYPE:	Roller
REDUCER:	
MILL DRIVE TYPE:	Pinion Stand
HORSEPOWER:	2-1250 (double arm) HP
INPUT RPM:	225/525 Rpm
GEAR RATIO:	1:1
BEARING TYPE:	Roller
OUTPUT SHAFT CENTERS (INCHES):	20 Inches (508.000 mm)
MAIN MILL MOTOR:	
QUANTITY:	1

HORSEPOWER:	2-1250 (double arm) HP
MOTOR MANUFACTURER:	Westinghouse
RPM:	225/525 Rpm
VOLTS:	575
CURRENT:	DC
MILL STAND 5:	
POST SIZE:	
THICKNESS (INCHES):	29 Inches (736.600 mm)
WIDTH (INCHES):	28.250 Inches (717.550 mm)
WINDOW SIZE:	
HEIGHT (INCHES):	171 Inches (4,343.400 mm)
WIDTH (INCHES):	54 Inches (1,371.600 mm)
WORK ROLLS:	
ROLL DIAMETER (INCHES):	21 Inches (533.400 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Roller
BACK UP ROLLS:	
ROLL DIAMETER (INCHES):	53 Inches (1,346.200 mm)
ROLL FACE (INCHES):	56 Inches (1,422.400 mm)
BEARING TYPE:	Morgoil
DRIVEN:	Work rolls
DRIVE SPINDLE TYPE:	Geared
SHOEPLATE:	
SHOE / SOLE PLATE:	Yes
SCREWDOWN:	
EXISTS:	Yes
COMPLETE:	Yes
SCREWDOWN TYPE:	Electro-Mechanical
MOTOR DATA:	
QUANTITY:	1
HORSEPOWER:	50 HP (37.300 kw)
MOTOR MANUFACTURER:	Westinghouse
RPM:	550 Rpm
VOLTS:	230
LINE SPEED (FPM):	3,400 Fpm (1,036.320 mpm)
PINION STAND:	
PITCH DIAMETER (INCHES):	20 Inches (508.000 mm)
HORSEPOWER:	2-1500 (double arm) HP
INPUT RPM:	250/625 Rpm
BEARING TYPE:	Roller
REDUCER:	
MILL DRIVE TYPE:	Pinion Stand
HORSEPOWER:	2-1500 (double arm) HP
INPUT RPM:	250/625 Rpm
GEAR RATIO:	1:1
BEARING TYPE:	Roller
OUTPUT SHAFT CENTERS (INCHES):	20 Inches (508.000 mm)

MAIN MILL MOTOR:	
QUANTITY:	<u>1</u>
HORSEPOWER:	2-1500 (double arm) HP
MOTOR MANUFACTURER:	<u>Westinghouse</u>
RPM:	250/625 Rpm
VOLTS:	575
CURRENT:	DC
EXIT TENSION REEL:	
QUANTITY:	<u>1</u>
TYPE:	Mandrel
MANDREL DIMENSIONS:	
DIAMETER (INCHES):	20 Inches (508.000 mm)
FACE (INCHES):	54 Inches (1,371.600 mm)
CAPACITY (TONS):	<u>18 Tons (16.329 mt)</u>
DRIVE TYPE:	Electro Mechanical
OUTBOARD BEARING SUPPORT:	
APPLICABLE:	No
BELT WRAPPER:	
APPLICABLE:	<u>Yes</u>
COMMENTS:	<u>Stands 3,4 & 5 upgraded to gear type drive spindles, spare screwdown screws and 1 set of screwdown gears available, 1 full set of drive spindles, No Roll Change, 1 PortaBar for work rolls, 1 PortaBar for back up rolls, Complete with 10 B/U Rolls and 26 work Rolls, 1 set spare B/U chocks with bearings, 30 spare W/R chocks, X-ray feedback to screws, X-ray exit side of stands 1 & 5 Accuray 7000 source gauges, Morgoil Bearing oil tank and pumps, Roll coolant tank and pumps.</u>

