

310 Series Brake Controlled Tension Stand:

Maximum Capacity: 8,000,000 (888ktex)

Roll Specifications: 4ea 229mm diameter x 406 (16") or 610mm (24") wide chrome rolls
1ea 280mm diameter x 406 (16") or 610mm (24") wide "rubber" roll

Tension: Continuously variable 200N (50 lbf) to 1,112N (250 lbf.) or 2222N (500 lbf)

Tension Control:

- Integral Dancer actuated
- Solid State electronics interpret tension and provide automatic adjustment of tension control brake
- Note: Instrument quality air required for optimal performance. Impurities in compressed air supply will result in component failure.
- Requires 85psi [5.7bar] compressed air and 110VAC (supplied by cutter)

Tow Height: Entrance – 34" (864mm), Exit – 48" (1220mm) alternate heights available

Process direction: Right to Left **or** Left to Right

Controls: Operator console mounted to the 310 Tension Stand, operator functions include:

- **Dancer Position** – potentiometer
- **Emergency Stop** - push/pull button
- **Emergency Stop** – cable
- **Nip Roll** – open / close
- **Power On** – light
- **System Stop** - push button

Special features integrated on the DM&E 310 Series Brake Controlled Tension Stand include:

- Pneumatically operated Tension Brake
- "Omega" wrap nip roll section
- Self aligning Nip Roll
- Dual drive rolls
- High capacity braking system
- Increased Dancer capacity
- Stainless steel roll guards with polycarbonate panels in doors
- Electrical safety interlocks provided for each door
- Carbon steel construction with powder coat protective finish
- DM&E 310 Series Tension Stands are supplied completely assembled, ready for customer installation.

DESCRIPTION	ROLL LENGTH	DIM. "A"	DIM. "B"	DIM. "C"
R.H. / AS SHOWN	24"	26-1/8"	18-1/2"	22"
L.H. / OPPOSITE	[609.6]	[664]	[470]	[559]
R.H. / AS SHOWN	18"	18-1/8"	14-1/2"	14"
L.H. / OPPOSITE	[406.4]	[460]	[369]	[356]

ELECTRICAL CABINET, REF. (10)
SEE ELECTRICAL SCHE.
PLANT CONNECTIONS THIS AREA
ELECTRICAL AND CONTROL WIRING

1/4" NPT CONNECTION 10cfm @ 85psi (280L/Min @ 590 kpa)
FOR COMPRESSED AIR
MOTOR CONNECTIONS
350/440V 3PH MOTOR

110V/220V 1A 1φ
24V DC CONTROL

3/4 (18mm) ANCHOR BOLTS
MINIMUM TO CLEAR
MINIMUM 20.0(80)lb (44.5kN) GRADE 8.8
SHIM AS REQUIRED

OPTIONAL:
3/4 (18mm) BOLT THROUGH
MINIMUM TO CLEAR
MINIMUM 20.0(80)lb (44.5kN) GRADE 8.8
SHIM AS REQUIRED

1 [25]
65 3/8 [1670]
6 3/8 [1620]

1 1/2 [38]
3 [76]
29 [737]
32 [813]

"A"
32 1/8 [814]
GUARD CLEARANCE

"B"
4 3/8 [120]
9 [229]
OPENING

48" [1219] (1)
57" [1448] (2)
TOW HEIGHT

28 3/16" [716] (1)
37 3/16" [945] (2)
TOW HEIGHT

56" [1422] (1)
65" [1651] (2)

27 1/2 [689]
38 [965]

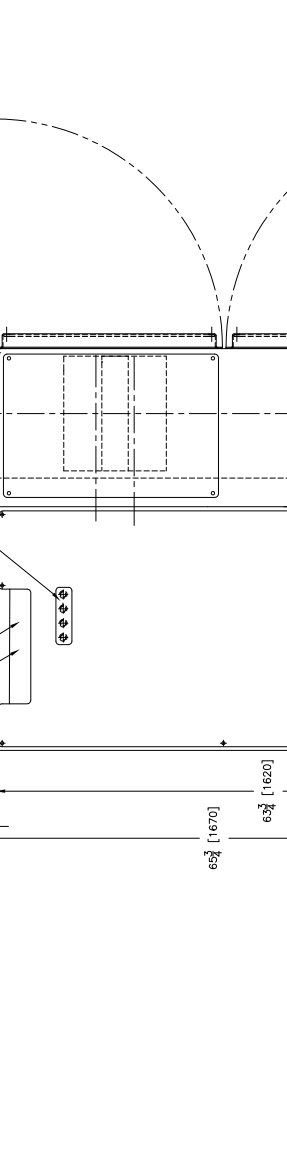
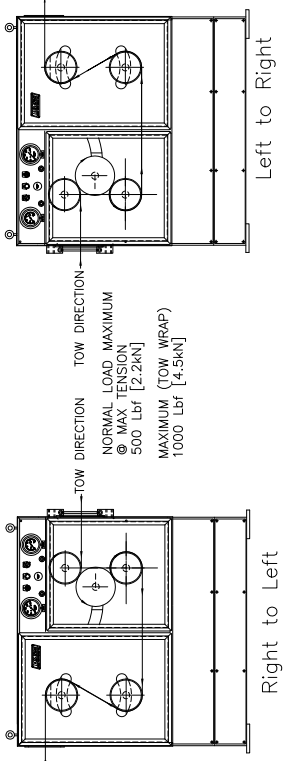
9 [229]
OPENING

4 3/8 [120]

31 1/8 [808]
CENTERLINE OF ROLLS
CENTER OF GRAVITY

38" [965.2] (1)
47" [1194] (2)
TOW HEIGHT
ENTRANCE

10 [255]
GUARD OPENING



NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	ROLL GUARDS	2	PC	SEE 3/20
2	ROLL GUARDS	2	PC	SEE 3/20
3	ROLL GUARDS	2	PC	SEE 3/20
4	ROLL GUARDS	2	PC	SEE 3/20
5	ROLL GUARDS	2	PC	SEE 3/20
6	ROLL GUARDS	2	PC	SEE 3/20
7	ROLL GUARDS	2	PC	SEE 3/20
8	ROLL GUARDS	2	PC	SEE 3/20
9	ROLL GUARDS	2	PC	SEE 3/20
10	ROLL GUARDS	2	PC	SEE 3/20

NOTES:
1- MARKING POINTS ARE LOCATED ON TOP OF MACHINE AT EYE BOLTS. BOTTOM SURFACE OF FRAME CAN ALSO BE USED FOR LIFTING
2- WEIGHT: 2,500 LBS. (APPROX.) [1,136.4kg]

CONTACT POINTS: ✓ MEETS CRITERIA TESTS
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DMRE
TITLE MAIN ASSEMBLY
310 SERIES TENSION STAND
SCALE: 1/8" = 1'-0"
DATE: 10/26/06
DRAWN: [REDACTED]
CHECKED: [REDACTED]
APPROVED: [REDACTED]
880-365-D 4

