



WIDE WEB CUSTOM EMBOSSEY SYSTEM: 1000mm WIDE WEB

Specifications: Page One

1. Unwind

Maximum reel diameter: 1000mm

Maximum reel weights: Approx 450kgs

Cores - 6" air chucks on 3" dia. airshaft

Spur drive gear on one end of 3" air shaft complete with hardened sleeved bearing and located with pneumatically loaded locking cap. Other end as above but without the drive gear.

All items subject to wear are of hardened steel and are replaceable.

The unwind supports would be mounted on linear bearings and guided via a Fife guiding system incorporating a CDP01 M controller, SE24 ultrasonic sensing head and D.C. actuator giving +/- 50mm movement

2. Tension Control System

The unwind batch tension shall be via an auto tension Dover Flexo system and transducer roll coupled to pneumatically operated disc brake. The tension meter would be calibrated in pounds and NOT percentage to give the total web tension reading.

3. Guide Rolls

The guide rolls are manufactured from high specification aluminium tube and machined and polished. The rolls will be fitted with free running Schatz bearings or equivalent to prevent creasing and film scratching.

4. Base Frame

Fabricated base frame comprising necessary guide rolls and aluminium support trays for ease of threading the web. In order to provide wider operator access the length of the base frame would be increased by 300mm to 4150mm. This would allow the walkway in front of the embossing nip to be 300mm wider.

The base frame also supports the unwind/rewind sections and the embosser section to form a correctly aligned structure after installation and supplied with dowels and pre-drilled holes for correct re-assembly on site.

5. Embosser Section

Comprising 2-off rigidly stayed precision ground and machined plate steel main frames supporting the following: -

- a) 2 off driven nip tension rolls complete with pneumatically loaded nip roll. The nip roll would be rubber covered in hypalon 65 - 70 Shore 'A'
- b) 2 off static elimination units situated one before and one after the embossing nip
- c) Pneumatically loaded embossing nip comprising the two-roll configuration. The backing roll housing is mounted on linear bearings with the housings being fitted with each precision adjustable wedge assembly to provide accurate independent control of pressure between the respective rolls (NOTE: 1 shim and 1 backing roll are included in the machine price)
- d) 1 off chrome plated driven cooling roll complete with rotary union(s) and flexible pipes.
- e) The design of the embossing section would enable 18" 24" and 30" circumference rolls as are generally used to be accommodated.

6. Rewind Section and Inspections Facility

Maximum reel diameter: 1000mm

Maximum reel weight: Approx 420kgs

Cores: 6" ID

Batch bar: 6" pneumatic chucks on a 3" air shaft

Spur drive gear on one end of 3" air shaft complete with hardened sleeved bearing and located with pneumatically loaded locking cap. Other end as above but without the drive gear.

All items subject to wear would be of hardened steel and be replaceable.

The air shaft would be driven via a variable speed A.C. inverter drive unit.

The rewind section would also incorporate a counterbalanced lay-on roll assembly with independently finely adjustable pressure controls for each side of the lay-on roll. The structure would provide an inspection area for the web.

7. Heat Generator

1 off heat generator complete with water cooling for the embossing roll.

Maximum temperature: 250° C

Pump capacity: 220 litres/min at 2.5 bar