

TENSIONERS

1. **UI-OP-C:**
Dual spring loaded discs, Tension ranges: 5-50g, 10-100g, 20-150g.
2. **UI-RT-C:**
Post and disc pretension with a series of ring/washers, Tension ranges: 5-50g, 10-100g, 20-150g.
3. **UI-OT-CA:**
Post/disc pre-tensioner with a self dampening dancer, Tension ranges: 5-50g, 10-100g, 20-150g.
4. **(McCoy) Magnatense (fiber glass):**
Electromagnetic rotating tension wheel with built-in broken end detector: 0-35g.
5. **Yarn guides:**
99% Alumina ceramic
6. **Broken end detection:**
High voltage drip wire (electronic motion sensors optional)
7. **Static elimination:**
At exit of creel, "S"-roll and winder
8. **Balloon breakers:**
Balloon breaker bags (optional)

CREEL SECTION

9. **Pitch:**
Package diameter + 40mm (minimum)
10. **No of step:**
6 to 10 steps in zigzag or inline arrangement
11. **Type:**
"H" type gate (swivel), or (transfer)
12. **Loading and running:**
Outside loading / inside running "H" type

"S" ROLL ASSEMBLY

13. **Brake:**
Magnetic powder brake (AC motor optional)

GENERAL SPECIFICATIONS: EXPERT 1200 DIRECT WARPERS (FILAMENT)

14. **Tension control:**
By load cell
15. **Broken filament control:**
Photo electric yarn fluff inspector (optional)
16. **Reed:**
As required for styling
17. **Rolls:**
2) with anodized mate finish
18. **Static eliminator:**
Static bar (shock type)
19. **Overoiler:**
Electric heated (optional)

WARPERS HEAD END

20. **Beam flange diameter:**
1,000mm
21. **Sheet width:**
1,500mm to 2,400mm
22. **Beam type:**
Journal or Euro-gear
23. **Max. running speed:**
1,200 m/min
24. **Max. winding tension**
40kg.
25. **Drive motor (standard):**
AC 15kW motor
26. **Beam brake:**
Dual air/hydraulic brakes (each side)
27. **Beam doffing:**
Automatic operation (pneumatic)
28. **Comb:**
Zig zag with motorized movement
29. **Yarn clamp:**
At exit of diversion roll
30. **Press Roller**
FRP coated roller with kickback function

DRIVE AND CONTROL SYSTEM

- 31. Human Machine Interface (HMI):**
380mm color touchscreen utilizing
Microsoft Visual Basic
- 32. PC based:**
2Gb Compact Flash card stores all programs/style information, reliable diskless technology
- 33. Maximum ambient operating temp.**
50° C
- 34. Operating system (embedded):**
Microsoft Windows 7 with real time extension
- 35. Control software:**
IEC 61131-3 compliant
- 36. Communication:**
High speed Ethercat to drives and I/O
- 37. Drives:**
Yaskawa A1000 AC Vector
- 38. I/O:**
Beckhoff Ethercat distributed I/O with direct strain gauge interface, current, voltage, relay, etc. mounted close to the device for easy installation and troubleshooting
- 39. Motors:**
Encoder feedback for speed control
- 40. Control cabinets:**
3C labeling of all wiring
- 41. Cabinet conditioning (optional)**
Air conditioned unit at the cabinet
- 42. eXpert Service Link:**
Offers remote diagnoses for hardware status, sensor status, calibrate sensors as required and help with style setup issues.
- 43. Remote access:**
Through Teamviewer and CAT5 internet connection