GENERAL SPECIFICATIONS:
EXPERT 1200 DIRECT WARPER (SPUN)

TENSIONERS

1. UI-PD-C:
   Post and disc, Tension ranges: 5-50g, 10-100g, 20-150g.

2. UI-OP-C:
   Dual spring loaded discs, Tension ranges: 5-50g, 10-100g, 20-150g.

3. 2-Bar/Clamp:
   “V”-Creels

4. UI-OT-CA:
   Post/disc pre-tensioner with a self dampening dancer, Tension ranges: 5-50g, 10-100g, 20-150g.

5. (AEI) YTC-2000:
   Electromagnetic 0-75g.

6. Yarn guides:
   99% Alumina ceramic

7. Broken end detection:
   Optional

8. Static elimination:
   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), truck or transfer

12. Loading and running:
    Outside loading / inside running “H” type

WARPER HEAD END

13. Beam flange diameter:
    1,000mm, 1,250mm, 1,400mm

14. Sheet width:
    1,500mm to 2,400mm

15. Beam type:
    Journal or Euro-gear

16. Max. running speed:
    1,200 m/min

17. Max. winding tension
    1,800mm to 5,500mm

18. Drive motor (standard):
    AC 15kW motor

19. Beam brake:
    Dual air/hydraulic brakes (each side)

20. Beam doffing:
    Automatic operation (pneumatic)

21. Comb:
    Zig zag with motorized movement

22. Yarn untangling device:
    Pneumatically operated

23. Press Roller
    FRP coated roller with kickback function

DRIVE AND CONTROL SYSTEM

24. Human Machine Interface (HMI):
    380mm color touchscreen utilizing Microsoft Visual Basic

25. PC based:
    2Gb Compact Flash card stores all programs/style information, reliable diskless technology

26. Maximum ambient operating temp.
    50° C

27. Operating system (embedded):
    Microsoft Windows 7 with real time extension

28. Control software:
    IEC 61131-3 compliant

29. Communication:
    High speed Ethercat to drives and I/O

30. Drives:
    Yaskawa A1000 AC Vector
31. **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

32. **Motors:**
   Encoder feedback for speed control

33. **Control cabinets:**
   3C labeling of all wiring

34. **Cabinet conditioning (optional)**
   Air conditioned unit at the cabinet

35. **eXpert Service Link:**
   Offers remote diagnoses for hardware status, sensor status, calibrate sensors as required and help with style setup issues.

36. **Remote access:**
   Through Teamviewer and CAT5 internet connection