

TENSIONERS

1. **UI-OP-C:**
Dual spring loaded discs, Tension ranges: 5-50g, 10-100g, 20-150g.
2. **UI-RT-C:**
Post and disc pre-tension 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 drop wire (electronic motion sensor option)
7. **Static elimination:**
At exit of creel and beam winder

CREEL SECTION

8. **Pitch:**
Package diameter + 40mm (minimum)
9. **No of step:**
6 to 10 steps in zigzag or inline arrangement
10. **Type:**
"H" type gate (swivel), or (transfer)

"S"-ROLL ASSEMBLY (OPTIONAL)

11. **Rolls:**
2) rolls with anodized matt finish
12. **Brake:**
magnetic powder brake (motor optional)
13. **Tension control:**
By load cell

GENERAL SPECIFICATIONS: UI-505SI SECTIONAL WARPERS (FILAMENT)

14. **Yarn inspector, overoiler, static elim.:**
Optional

WARPERS

15. **Working width**
1,800mm to 5,500mm
16. **Max. warping take-up speed**
1,000 MPM
17. **Max. warping tension**
80kg.
18. **Drive motor**
15kw (standard)
19. **Feed rate specification**
Pre-set level of 0.001~8mm/rev.
20. **Feed rate automatically calculated**
Checked twice on 1st. section
21. **Jog speed**
by foot pedal
22. **Operator input/computer**
Industrial Touch Screen
23. **Sectional warping data storage**
up to 999 styles
24. **Section width**
350 mm, 500mm
25. **Inclined plane angle**
Fixed 5°, 7°, 9°, 11°
26. **Drum diameter**
1,000 mm
27. **Drum circumference**
3,142 mm
28. **Section press roll**
Pneu. controlled (automatically)
29. **Drum brakes**
Dual Hydraulic discs (both sides)
30. **Leasing Stand**
Automatic (one touch), 1150mm width

BEAMER

- 32. **Maximum loom beam diameter**
1,000mm (1,250mm optional)
- 33. **Working width**
1,800 to 5,500mm
- 34. **Maximum beaming speed**
100M/MPM (standard)
- 35. **Maximum beaming tension**
600kg. (standard)
- 36. **Reverse winding**
20MPM (optional)
- 37. **Drive moto**
30kw (standard)
- 38. **Over-oiler/waxer**
Electric heated (optional)
- 39. **Ends break memory function**
Automatic
- 40. **Doffing system**
Hydraulic
- 41. **Beamer press roll (dual rolls)**
Pneumatically loaded 40-250kg. (optional)

DRIVE AND CONTROL SYSTEM

- 42. **Human Machine Interface (HMI):**
480mm color touchscreen utilizing
Microsoft Visual Basic
- 43. **PC based:**
2Gb Compact Flash card stores all pro
grams/style information, reliable diskless
technology
- 44. **Maximum ambient operating temp.**
50° C
- 45. **Operating system (embedded):**
Microsoft Windows 7 with real time
extension
- 46. **Control software:**
IEC 61131-3 compliant
- 47. **Style recipe storage**
Up to 999 styles
- 48. **Communication:**
High speed Ethercat to drives and I/O

- 49. **Drives:**
Yaskawa A1000 AC Vector/Servo
- 50. **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
- 51. **Motors:**
AC Vector with encoder feedback for speed
control
- 52. **Control cabinets:**
3C labeling of all wiring
- 53. **Cabinet conditioning (optional)**
Air conditioned unit at the cabinet
- 54. **eXpert Service Link:**
Offers remote diagnoses for hardware
status, sensor status, calibrate sensors as
required and help with style setup issues.
- 55. **Remote access:**
Through Teamviewer and CAT5 internet
connection
- 56. **Warper controls:**
 - a) Automatic feed rate calculated from style
information with manual override on first
band
 - b) Automatic reed table position at begin-
ning of a new band
 - c) Automatic band length control
 - d) Automatic lease stops, style programmable
 - e) Style programmable slow and fast speed
control
 - f) Automatic broken end/stop memory
 - g) Manual override for ends running with
automatic reed re-adjustment
- 57. **Beamer controls:**
 - a) Automatic speed control style program-
mable
 - b) Automatic winding tension via load cell
control
 - c) Style programmable press roll pressure
control
 - d) Style programmable overoiler speed and
temperature control
 - e) Automatic stop at broken ends via stop
memory
 - f) Optional rewind capability