



Tape Winders

winding



LOHIA
STARLINGER **LIMITED**

Innovation to leadership
Since 1981





Itw 200C / Itw 200CE

The precision take up cross winding machine model **Itw 200C** has been specially designed for winding flat and fibrillated tape on cylindrical cores. This can be used to produce warp and weft packages for Circular Weaving Machines. The winder can wind a wide range of tape specifications – tape width, denier etc.

This cross winding machine meets the requirements of highest precision and flawless quality at high working speeds. Complicated mechanisms are eliminated thereby reducing the maintenance and energy consumption significantly. It is supplied with 6 winder heads on top of each other in a robust distortion free frame in a space saving arrangement. The frames are ready for installation and can be quickly assembled to complete units for the required number of winder heads. Each spindle is driven by an AC motor with individual frequency inverter. Drive transmission for traverse mechanism is via timing belts.

The winding machine is designed for horizontal tape supply. Each winder head is equipped with guide elements ensuring the exact and smooth feeding of tapes with pressure adjustment device. A user-friendly lever allows the quick replacement of full bobbin by empty cores.

For comfortable operation and easier access and maintenance, frames are available in configuration of 24 winders as standard and of 12 winders against special requirement.

Winders model **Itw 200/250/300F** have been designed to wind flat / fibrillated tapes in large diameter cylindrical cores suitable for warp bobbins on flat/circular loom and/or weft bobbins on flat looms. These winders are available in in configuration of 12 winders as standard and of 8 winders against special requirement.



Salient features:

- Dancing arm feedback to the frequency inverter for winding speed enables winding at a constant tape tension
- Adjustable spring pressure mechanism between pressure roller and rotating package for optimizing package quality.
- Variable pressure for dampening device allows jerk free movement of traverse mechanism to deliver a good quality package.
- Precise transmission ratio is obtained by a reversing scroll shaft driven via timing pulleys.
- Stainless Steel tape guide with twin bead ceramics for longer life.

Itw 200F, Itw 250F
Itw 300F
Itw 200FE, Itw 250FE
Itw 300FE

Winder model *Itw 200CE* is equipped with electronic gearing between metallic traverse cam and the spindle. The electronic gearing allows dynamic change of winding ratio to optimize bobbin build-up in terms of crossing angle.

The electronic gearing helps in eliminating the complications of changing gears for processing variety of tapes for different applications. The electronic gearing allows a dynamic change of gear (winding) ratio depending on bobbin diameter, to optimize the bobbin build up in terms of crossing angle. This also reduces the variation in unwinding tension during weaving. Better quality of fabric can be produced due to controlled unwinding tension of the packages. Mechanical drives to traverse mechanism are replaced by electronics enabling higher efficiency, lower maintenance and saving of energy.

Salient features:

- Electronic Gearing between spindle and cam.
- Encoder feedback on spindle and cam motor.
- HMI for setting different cross ratios
- LED indication for preset length of bobbin. Enables doffing of equal length bobbins.
- Different preset lengths can be set for different sets of winders (max. 4 groups).
- Dancing arm feedback to the frequency inverter for winding speed enables winding at a constant tape tension
- Adjustable spring pressure mechanism between pressure roller and rotating package for optimizing package quality.
- Variable pressure for dampening device allows jerk free movement of traverse mechanism to deliver a good quality package.
- Stainless Steel tape guide with twin bead ceramics for longer life.

The winding machine is designed for horizontal tape supply. Each winder head is equipped with guide elements ensuring the exact and smooth feeding of the tape with pressure adjustment device. A user-friendly lever allows the quick replacement of full bobbin by empty cheese tube.

For comfortable operation and easier access and maintenance, frames are available in configuration of 24 winders as standard and of 12 winders against special requirement.

Winders model *Itw 200/250/300FE* are designed to wind flat / fibrillated tapes in large diameter cores suitable for warp bobbins on flat/circular loom and/or weft bobbins on flat looms. These winders are available in configuration of 12 winders as standard and of 8 winders against special requirement.



TECHNICAL SPECIFICATIONS

Models	LTW 200C	LTW 200F	LTW 250F	LTW 300F
Winding ratio	----- Mechanical -----			
Tape Width range # *	1-6 - 6.0 mm	1-6 - 6.0 mm	1-6 - 6.0 mm	1-6 - 6.0 mm
Denier range #	400 - 3000	400 - 3000	400 - 3000	400 - 3000
Length of traverse	200 mm	200 mm	250 mm	300 mm
Bobbin core dimensions				
Inner Diameter **	35 mm	90 mm	90 mm	90 mm
Length **	218 mm	230 mm	280 mm	330 mm
Capacity				
Winding speed #	160 - 425 m/min	160 - 425 m/min	160 - 425 m/min	160 - 425 m/min
Max. bobbin diameter	160 mm	240 mm	280 mm	290 mm
Machine dimensions				
Frame configuration	6 High, 4 Across	4 High, 3 Across	4 High, 3 Across	4 High, 3 Across
Frame size (L x W x H)	2.08 x 0.80 x 1.85 m	1.65 x 0.84 x 1.95 m	1.65 x 0.84 x 1.95 m	1.65 x 0.84 x 1.95 m
Models	LTW 200CE	LTW 200FE	LTW 250FE	LTW 300FE
Winding ratio	----- Electronic -----			
Tape Width range # *	1-6 - 6.0 mm	1-6 - 6.0 mm	1-6 - 6.0 mm	1-6 - 6.0 mm
Denier range #	400 - 3000	400 - 3000	400 - 3000	400 - 3000
Length of traverse	200 mm	200 mm	250 mm	300 mm
Bobbin core dimensions				
Inner Diameter **	35 mm	90 mm	90 mm	90 mm
Length **	218 mm	230 mm	280 mm	330 mm
Capacity				
Winding speed #	160 - 500 m/min	160 - 500 m/min	160 - 500 m/min	160 - 500 m/min
Max. bobbin diameter	160 mm	240 mm	280 mm	290 mm
Machine dimensions				
Frame configuration	6 High, 4 Across	4 High, 3 Across	4 High, 3 Across	4 High, 3 Across
Frame size (L x W x H)	2.08 x 0.80 x 1.85 m	1.65 x 0.84 x 1.95 m	1.65 x 0.84 x 1.95 m	1.65 x 0.84 x 1.95 m

Extreme values cannot be combined.

* Traverse guides may need to be changed depending on the tape width.

** Other options on request

Specifications are subject to change without prior notice due to continuous developments. These details are indicative and not binding. Extreme values indicated are not achievable simultaneously.

The pictures may show optional equipment that are not a part of the standard supply. For details, refer to quotation.

LOHIA

STARLINGER LIMITED

H.O & WORKS

D-3/A, Panki Industrial Estate,
Kanpur - 208022, India
T: +91 512 3045100
F: +91 512 3045299
E: isl@lohiagroup.com

EXPORT MARKETING

218, Ansal Chambers II,
Bhikaji Cama Place,
New Delhi - 110066, India
T: +91 11 3064 1770
F: +91 11 3064 1771
E: sales@lohiagroup.com

BRANCH OFFICES

AHMEDABAD
60, Triveni Park Bungalow,
Auda Staff Society, Drive-in,
Ahmedabad - 380054
T: +91 79 4005 2951-55
+91 79 2684 1961-62
F: +91 79 2685 1704
E: ahmedabad.isl@lohiagroup.com

BANGALORE
544, 9th Cross,
7th Main, Sadashiv Nagar,
Bangalore - 560080
T: +91 80 2361 0020/22
+91 80 4113 7799
F: +91 80 2361 0024
E: bangalore.isl@lohiagroup.com

DELHI
218, Ansal Chambers II,
Bhikaji Cama Place,
New Delhi - 110066
T: +91 11 3064 1770
F: +91 11 3064 1771
E: delhi.isl@lohiagroup.com

KOLKATA
H M Plaza Business Centre,
8, A J Bose Road, Ground Flr,
Kolkata - 700017
T: +91 33 2280 4640/41
F: +91 33 2290 5136
E: sales.kolkata@lohiagroup.com