

Big diameters
16-70 mm
12/574



Big diameters

**Technology and
reliability**



Big diameters 12/574

The 12-574 machine covers the gap between our E432 and E680 machines. It can braid a rope of 220 meters length and 55 mm diameter without splicing. The range of diameters covered by this model are between 16mm and 70 mm.

Housing

- Lower housing made of rolled & weldable steel.
- Oil bath including a motorized pump and an independent circuit to lubricate foot carrier and horn gears.
- Ø574 mm Horn gears treated and rectified with an average hardness of 610 Brinell.
- Crossings made of treated and rectified steel.
- Main motor of 4 Kw, including an encoder to control braider main motor and to guarantee perfect step synchronisation.
- 6 Automatic stopping devices for yarn breakage or bobbin run out together with 2 photocells to prevent thread falling into operating area.
- Shaved helicoidal gears transmission.

Overall frame

- Made of rolled plate.
- Consists of 2 columns and 1 upper frame which can be dismantled.
- Height from floor level to the highest point 4565 mm with the top anti-tangling switch to the highest point and 3670 mm to the minimum.
- Metal access ladder to capstan wheel and to braiding point with an upper platform.

Take off system

- Independent take off integrated in the overall frame.
- Consists in one capstan of Ø700mm to produce a maximum rope Ø of 70 mm.
- Operated by a reducer motor of 0.55 Kw
- Control panel to operate the braider and the take off inching and speed.
- Reverse take off and emergency stop.
- Variable speed control from the electric panel.

Carrier

- Carrier Gauge 574 with bobbins of Ø305x660 mm with a capacity of 46.355 cm³.
- Carrier foot & tracking pawls made of hardened and rectified steel and fine finishing.
- Aluminium bobbin with a steel bushing to reinforce both flanges. Reflective adhesive on barrel to detect bobbin run out of yarn using a photocell.
- Right & left middle yarn guides with hardened pulleys for a maximum diameter yarn of 20 mm (one strand only) including ball bearings.
- Yarn tensor with a hardened pulley including a ball bearing. Hardened lineal guides for maximum glide efficiency.
- Combinable springs to obtain different tensions.
- Carrier shoe with a brake with quick action screw adjustment in case of brake pad wear.
- Tension trigger springs.
- Top yarn guides with a self-guiding rotary hook to reduce yarn friction optionally.

Braiding point

- Multidirectional top anti-tangling switch & braiding point detector (braid die split type) including a ball socket & a micro switch for a maximum diameter of 85 mm.
- Collector fitted with tempered guides and linear bearings for greater stability of the braiding point.
- Allows springs to be changed for different levels of sensitivity.
- Motorized height adjustment system.
- Equipped with a motor reducer.
- Operated using a rack and two linear guides for improved grip.

Electric control panel

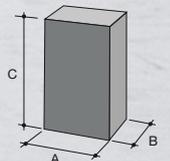
- Equipped with 2 frequency shifters to change the speed of the braider main motor and take off system.
- PLC to control whole process and machine movements.
- 7" touch screen.
- Complete programme for operating and controlling all braiding parameters, with the following features:
 - Allows to entering the required helix/pitch.
 - Horn-gear RPM control.
 - Partial and total meter counter.
 - Counter for operating time and remaining time.
 - Control for all important machine parameters, with graphic indication of problems in the event of stops caused by breakdowns.
 - Detector warning for open door, anti tangling switch, bobbin yarn run out and maintenance alerts.
 - Database containing parameters of the products made, allowing all of the adjustments to be saved for each of the client's products. The different type of products to be braided can then be recovered quickly, without having to re-enter the adjustments.
 - Alarm log, indicating the time and the problem.
 - Red light indicating machine status.





12/574

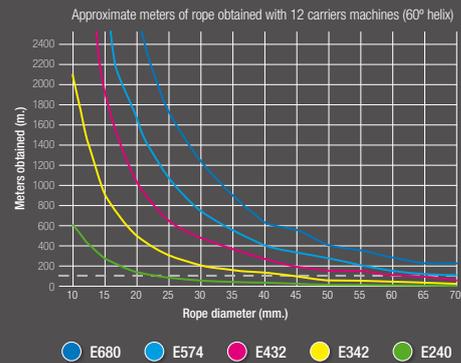
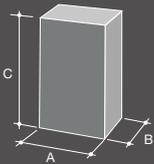
- Number of carriers: 12
- Gauge length: 574
- Bobbin diameter (mm): Ø 305 x 660
- Bobbin capacity: 46.355 cm³
- Horn gear speed: 40 rpm
- Carrier speed: 13,33 rpm
- Motor power: 4 Kw / 5,5 hp
- Length (A): 3.500 mm
- Width (B): 2.600 mm
- Height (C): 4.500 mm
- Weight: 5.255 Kg
- Maximum Ø (with core): 70 mm



Technical Features

Big diameter Gauge 574

Number of carriers	12
Format	Individual
Bobbin diameter (mm)	Ø 305 x 660
Bobbin capacity	46.355 cm ³
Horn gear speed	40 rpm
Carrier speed	13,33 rpm
Motor power	4 Kw / 5,5 hp
Length (A)	3.500 mm
Width (B)	2.600 mm
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Maximum Ø (with core)	70 mm



NOTE: According to machinery directive 89/392 about safety for the European market, machines must be protected. However, in order to allow for a better display some of this catalog's illustrations have been made without the mandatory protections. The company reserves the right to modify and improve the characteristics of its products without notice.

