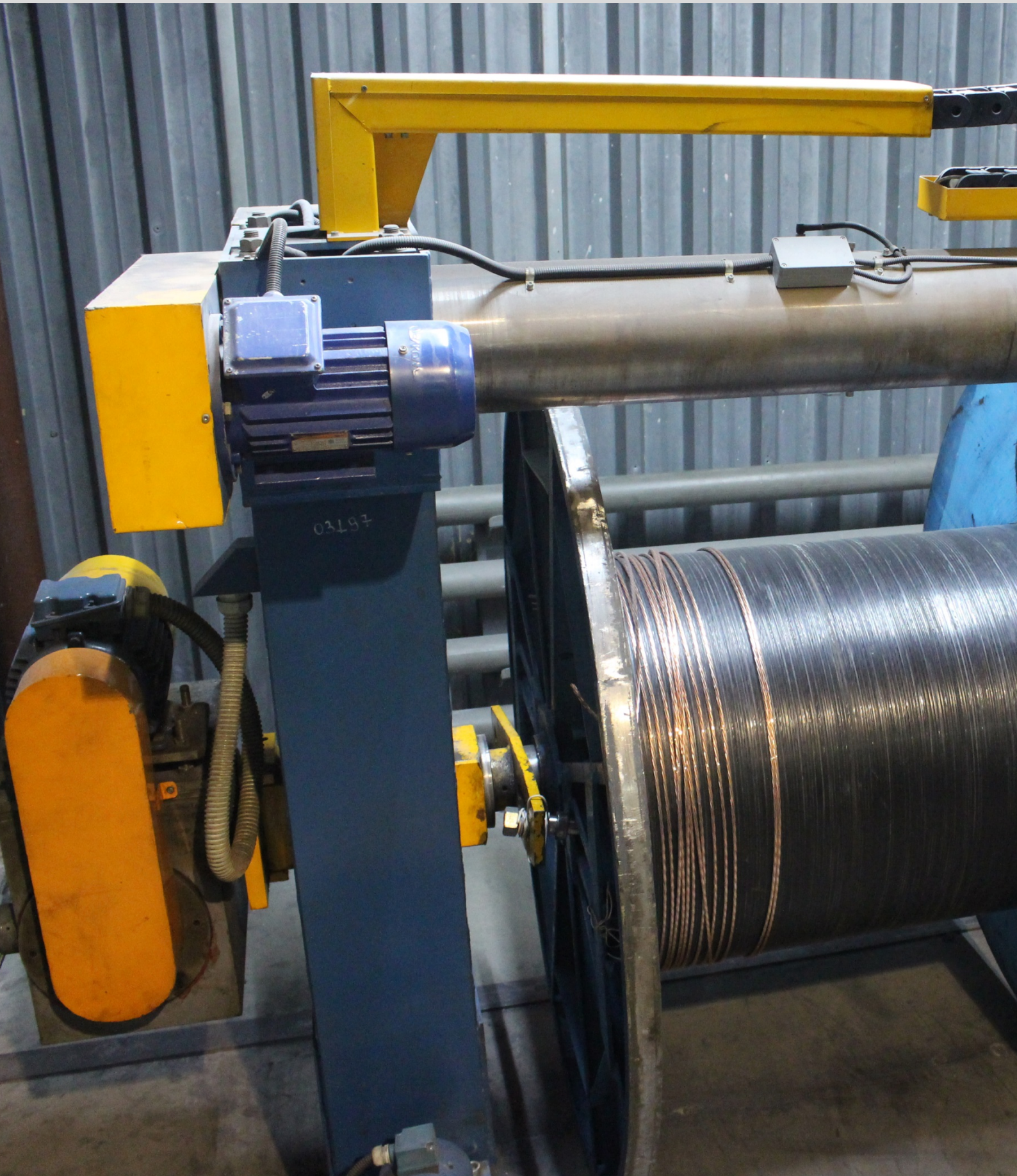


GANTRY TAKE-UP

TU 1600



TAKE-UP TU-1600

Equipment purpose

Gantry take-up with an independent drive is used for uniform winding conductor, wire or cable on the wooden and metal drums with the flange diameter ranging from 800 mm to 1600 mm in the constant tension mode.

Take-up structure

Equipment consists of non-stationary and stationary racks with drive and non-drive up-down pintles ensuring the clamping of the drum. The whole construction is installed on the rails and automatically moves from side to side that it allows to produce a uniform layout of products on the drum. Boxes with up-down pintles have reciprocating motion along vertical guides using separate screw mechanisms for drum lifting and lowering with drive by motor reducer. Product laying is occurred as a result of the take-up movement along the axis of take-up drum per one turn which is equal to the diameter of taken-up product. Equipment motion is produced from the electrical motor of take-up. Up-down pintle motion of take-up is produced by electrical motor with capacity of 5,5 kW through the multilevel reducer. Changeable cones with various sizes and configurations are used for installing drums with different diameters on the take-up.

Technical specification

Maximum pulling force – 350 kg

Maximum linear speed – 150 m/min

Cable diameter – 5-50 mm

Maximum drum weight – 5000 kg

Drum diameter: 800-1600 mm

Drum width: 475-1200 mm

Speed of rapid portal movement – 2 m/min

Overall dimensions, length x height x width = 2500 x 2240 x 2020 mm

Weight – 2800 kg

Drive technical specification

1. AIR 112M4 P=5,5 kW, n=1500 rpm

2. 4-speed gearbox

Range of drum rotation frequencies:

I gear: 1,5-20 rpm

II gear: 2,5-40 rpm

III gear: 6,0-80 rpm

IV gear: 11-160 rpm

3. Portal moving: motor reducer 5MC5S-112ES-5,4-1,1-320-Y2

Chain gear $i=2$ ($Z_1=18$, $Z_2=36$)

4. Lifting-lowering of up-down pintle: 3MP-40-28-250-110-U2

5. Part of up-down pintle: AIR 80B6 n=1000, P=1,1kW

Chain gear $i=2$ ($Z_1=18$, $Z_2=54$)

Production time - 4 months