

## **EXTRALIFT LP-5-SU-1-V-00-U1 passenger winch**

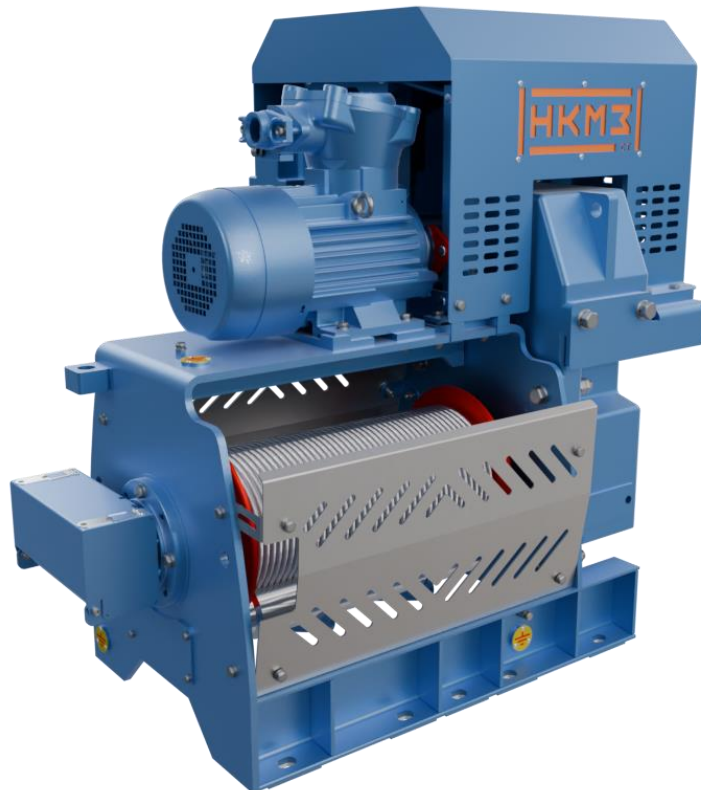


**Figure 1 General view of the winch**

The passenger winch EXTRALIFT LP-5-SU-1-V-00-U1 (hereinafter referred to as the Winch) is designed for lifting the cradle with operating personnel when servicing the top drive systems within the rated lifting capacity.

The winch is equipped with an explosion-proof pushrod for the drum brake at the input and output. Torque is transmitted from the engine to the brake, gearbox, and then to the drum via a key and splined drive without the use of friction, cam, or other detachable clutches.

The lifting/lowering speed is controlled by a frequency converter. The frequency converter also ensures smooth starting and stopping of the motor. The winch controls are a portable push-button station within the 5-meter cable length, as well as a portable radio-controlled remote control installed in the



**NEFTEKAMSK MACHINERY PLANT  
OF SPECIAL EQUIPMENT**

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cradle, both are explosion-proof. The winch is equipped with the upper and lower hook position sensors (anti-drag device).

**The winch is supplied with the following set of documents:**

- Passport;
- Operation manual;
- Declaration of conformity with the TR CU 010/2011 On the safety of machinery and equipment;
- Certificate of conformity to the TR CU 012/2011 On the safety of equipment for work in explosive environments;
- Passports and certificates for purchased components;
- Test methodology program - subject to agreement;
- Test report.

All documentation is supplied in Russian.

Technical characteristics of the winch:

| No.<br>p/p | Parameter name                                     | Meaning                           |
|------------|----------------------------------------------------|-----------------------------------|
| 1.         | Purpose                                            | Passenger                         |
| 2.         | Nominal lifting capacity, kg                       | 500                               |
| 3.         | Nominal lifting capacity of the cradle, kg         | 300                               |
| 4.         | Drive type                                         | Electric                          |
| 5.         | Drive power, kW                                    | 3                                 |
| 6.         | Voltage, V                                         | 380                               |
| 7.         | Gearbox                                            | Cylindrical, with parallel shafts |
| 8.         | Gear ratio of the gearbox                          | 61                                |
| 9.         | Diameter of rope for cargo and people purposes, mm | 10.5                              |
| 10.        | Drum rope capacity, m                              | 45                                |
| 11.        | Speed range, m/min                                 | 8-15                              |
| 12.        | Number of shoe brake mechanisms                    | 2                                 |

|     |                                          |                  |
|-----|------------------------------------------|------------------|
| 13. | Operating mode, duty cycle, PV, %        | Intermittent, 40 |
| 14. | Environmental and functional conditions: | -450C.....+400C  |
| 15. | Winch weight, kg                         | 480              |

\*Optionally, the winch can also be supplied with a general-purpose industrial control cabinet.

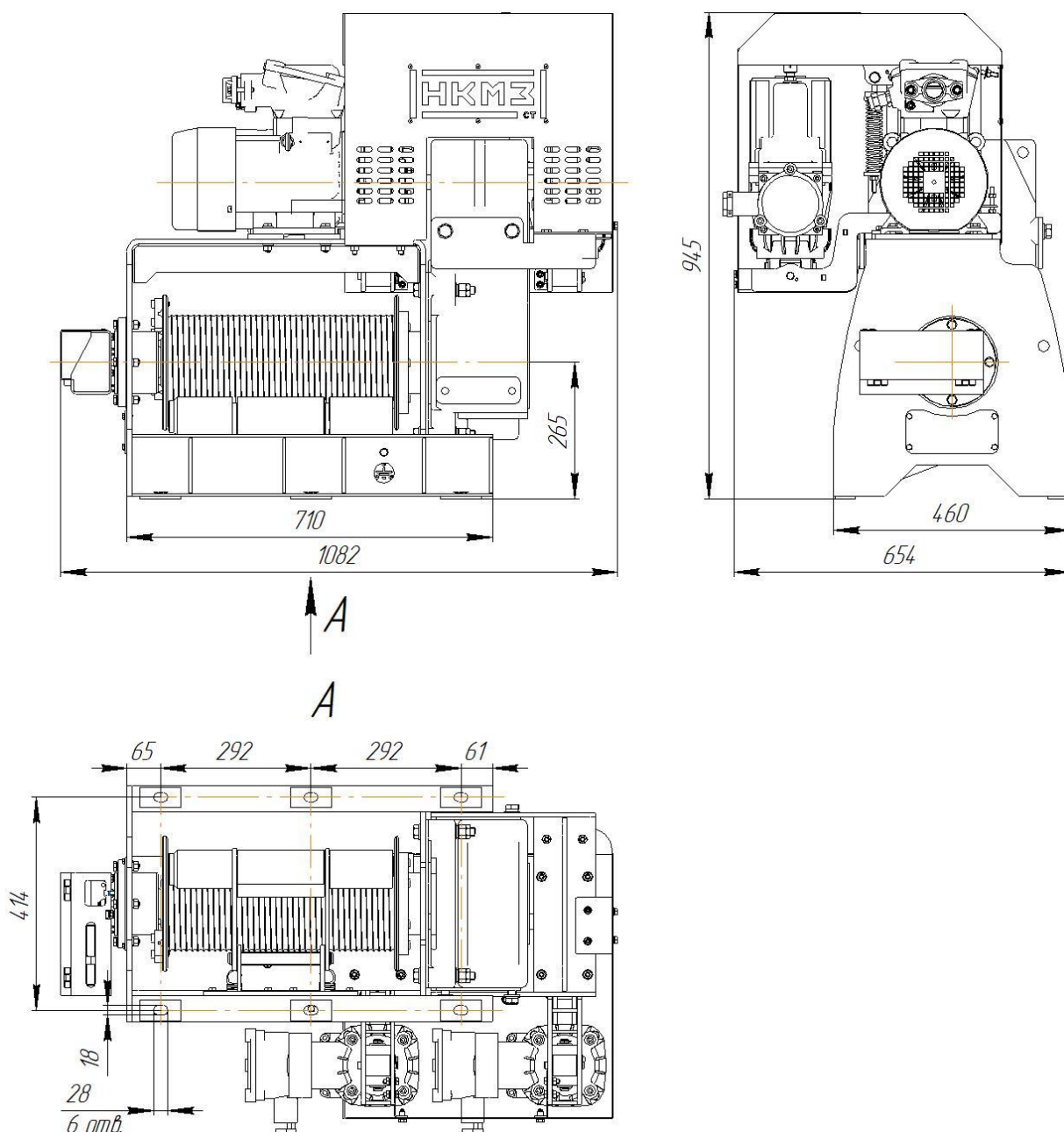


**Figure 2. Overall drawing of the winch**

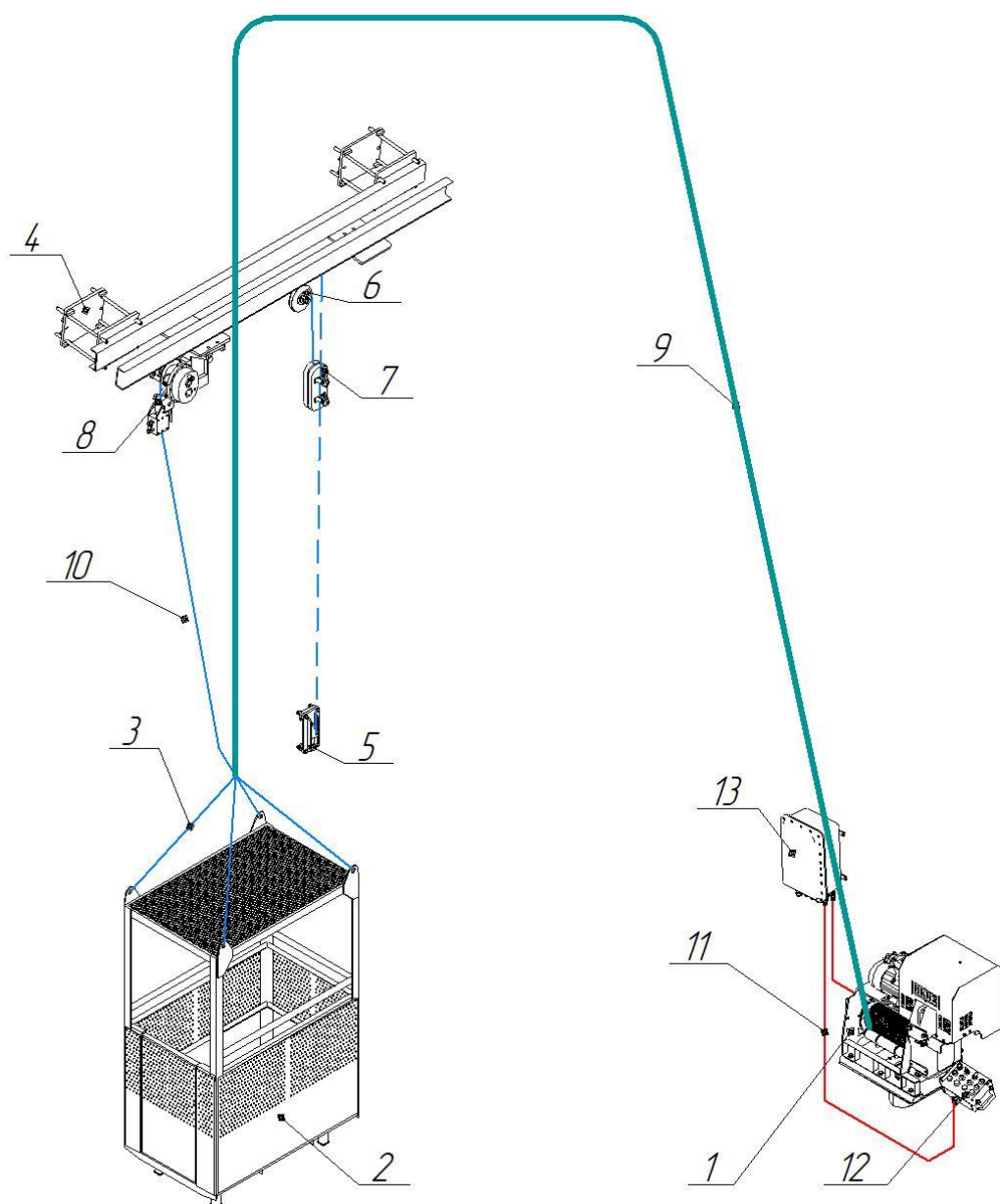


**Figure 3 General installation diagram and delivery set**

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| Pos. in figure<br>3        | Name                                                                                                    | Quantity |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| 1                          | Passenger winch MK 970.00.00.000, with electric motor, shoe brakes, gearbox, drum and frame             | 1 piece  |
| 2                          | Carrycot for 2 people, capacity 300 kg                                                                  | 1 piece  |
| Not shown<br>conditionally | Personal rescue device Monospas-50                                                                      | 2 pcs    |
| 3                          | Four-branch cargo rope sling 4SK-3.2/2000 with shackles instead of hooks                                | 1 piece  |
| 4                          | Bracket for mounting the safety device, for installation on the crown block/mast BU MK 970.20.00.00.000 | 1 piece  |
| Conditionally<br>not shown | Rope weight, m=10 kg, chain MK 900.18.00.000-11                                                         | 1 piece  |
| 5                          | Lower mount MK 900.16.00.000-11                                                                         | 1 piece  |
| 6                          | Upper mount with roller MK 900.15.00.000-12                                                             | 1 piece  |
| 7                          | Counterweight MK 900.14.00.000-21                                                                       | 1 piece  |
| 8                          | Assembled safety device MK 900.13.00.000-21_1                                                           | 1 piece  |
| 9                          | Main rope made of double twisted steel, type TLK-O 10.5-GL                                              | 90 m     |
| 10                         | Safety and guide rope made of double twisted steel, type TLK-O 10.5-GL                                  | 45+45 m  |
| Conditionally<br>not shown | Self-closing hook with swivel, lifting capacity 2.0 t, class 8                                          | 2 pcs    |
| 11                         | Set of cable products                                                                                   | 1 set    |
| Conditionally<br>not shown | Radio control                                                                                           | 1 piece  |
| 12                         | Explosion-proof, push-button control station with a cable length of at least 5 m                        | 1 set    |
| 13                         | Explosion-proof control cabinet with 5m cable length                                                    | 1 set    |
| Conditionally<br>not shown | Adapter plate or frame for installation on BU MK 970.10.00.000                                          | 1 set    |