# QUESTIONNAIRE

|  |
| --- |
| for ordering a drum hoisting machine\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| for hoisting unit\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| enterprise\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |
| **Customer Information:**  |
| Association, pit, mine, shaft: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Еmail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Phone/fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Contact person (name, position, tel.): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Commissioning date (planned): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Object: under construction, reconstructed, operating (underline as required) |
| Organization handling the machine installation project: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**1 Working conditions:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Shaft inclination (mining) | degr. |  |
| 2 | Installation location of the hoisting machine: |  |  |
|  | - on the surface in the machine house | - | Yes[ ]  No[ ]  |
|  | - underground  | - | Yes[ ]  No[ ]  |

**2 Composition of the complex equipment, performance:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Mechanical part | - | Yes[ ]  No[ ]  |
| 2 | Electrical part | - | Yes[ ]  No[ ]  |

**3 Hardware requirements**

**3.1 General data of the hoisting unit:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | What the hoisting unit is used for: |  |  |
|  | - hoisting the load | - | Yes[ ]  No[ ]  |
|  | - ascent (descent) of people | - | Yes[ ]  No[ ]  |
| 2 | Hoisting type: |  |  |
|  | - single-vehicle | - | Yes[ ]  No[ ]  |
|  | - two-vehicle | - | Yes[ ]  No[ ]  |
| 3 | Vehicle type: |  |  |
|  | - skip | - | Yes[ ]  No[ ]  |
|  | - cage | - | Yes[ ]  No[ ]  |
|  | - counterweight | - | Yes[ ]  No[ ]  |

**3.2 Depth:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Vertical depth or length of an inclined shaft | m |  |

**3.3 Load:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Normal payload lifted at the time: |  |  |
|  | - coal/ore/rock (underline as required)  | kg |  |
|  | - people | kg |  |
| 2 | Number of trolleys in a cage (included) | pcs. |  |
| 3 | The number of persons lifted simultaneously in the cage  |  |  |
|  | (trolley) | persons |  |
| 4 | Dead weight: |  |  |
|  | - skip / cage (underline as required), including suspension  |  |  |
|  | gears and grip blocks | kg |  |
|  | - one trolley | kg |  |
|  | - counterweight | kg |  |
| 5 | Maximum static tension of the cable rope | kN |  |
| 6 | Maximum difference in static tensions of the cable ropes | kN |  |

**3.4 Cable ropes:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Main cable rope: |  |  |
|  | - type, diameter, weight of a running meter, breaking strength of the cable rope | - |  |

**3.5 Hoisting kinematic data:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Maximum hoisting speed of the vehicle | m/sec |  |
| 2 | Pause duration between hoists | s |  |
| 3 | Basic acceleration, deceleration | m/s² |  |

**3.6 Mechanical part:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Machine type | - |  |
| 2 | Machine design:  | - |  |
|  | - right | - | Yes[ ]  No[ ]  |
|  | - left | - | Yes[ ]  No[ ]  |
| 3 | Number of drums | pcs. |  |
| 4 | Diameter of the winding part of the drum | mm |  |
| 5 | Winding drum width | mm |  |
| 6 | Diameter of a leading sheave, mm | mm |  |
| 7 | Braking system type: |  |  |
|  | - spot-type-radial  | - | Yes[ ]  No[ ]  |
|  | - disk hydraulic | - | Yes[ ]  No[ ]  |
| 8 | Gearbox reduction rate | - |  |

**3.7 Electrical part:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Parameter name** | **UOM** | **Response** |
| 1 | Voltage: |  |  |
|  | - power supply network of the hoisting electric motor  | V |  |
|  | - power supply network of auxiliary drives | V |  |
| 2 | AC mains frequency | Hz |  |
| 3 | Hosting motor power | kW |  |
| 4 | Hosting motor speed | r/min |  |
| 5 | Number of hoisting motors | pcs. |  |
| 6 | Equipment with shaft signalling and communication system | - | Yes[ ]  No[ ]  |