TRADEHOUSE Int. A/S
Soborg
Denmark
Att: Erik Lohmann

Re.: Crane operator hoist for Towercrane.

Cornuda 15.09.15

Please find our offer based on your enquiry No. 140915
for
One crane operator hoist model SAFI Type AS 40 modified for Kroll Tower Crane K1500 L, with Mast 3.3 x 3.3x7.8 m

Cabin ca. 900 x 1000 x 2300 mm designed for two persons.
Window above drive unit, with galvanized steel floor at top with fence and parapets.
Cabin with folding doors at side pos "six o'clock" for entrance and exit.
Hatch and ladder to reach the cabin roof to be included.
Cabin floor made of wood and aluminum as per previous lift.
Max payload 200 kg.
Electrical plug with switch for 220 Volts 16A for hydraulic tools at top of cabin.
The cabin is driven by on 3 kW electro gear motor.
For security reasons the hoist is equipped with electrical security systems at top and bottom. A parachute brake which will stop the hoist on way down if the speed exceed the allowed downwards maximum speed.
Cabin to be delivered assembled.

Enclosure panels for No. 2 bottom sliding doors and No. 1 top sliding doors.
These will be painted as sliding doors already produced.

No.2 raw CC mast elements with No.2 raw connection plates

Type:	SAFI, model AS 40 with CC mast
Max load:	200 Kg
Traveling speed	7.5 - 21 - 40 m/min
Number of cabins	one, with 1 folding door.
Dimension:	ca. 900x1000 outside x2300 mm inside
Control:	Toshiba frequency converter and with remote control at top of cabin

The components consist of:

1Pcs manual control for erection from top of cabin;
2Pcs complete enclosure for bottom sliding door, including platform;
1Pcs complete enclosure for top sliding door;

1Pcs cabin for two persons or 200 kg, cabin size 900 x 1000 outside x 2300 mm inside cabin with two plus one window;
1Pcs Drive unit, 1x3kW motor AC, 3x380V, 50 Hz, Control power 110 V;
1Pcs self-holding switch for ascent and descend in cabin;
1Pcs emergency lamp with accumulator;
1Pcs of acoustic alarm, 1xEmergency box with line and belt;
1x full galvanization, hot dip;
1Pcs service manual in English language;
Signboards and signs in Polish and English language.

General:
Payment: 20 % upon order 80% at delivery.
Delivery: Extra component to be shipped by the 25th of September, second cabin delivery time to be agreed
Validity: 60 days
Hoist to be CE marked.
The hoist will be supplied after EU standard and after EN norms, certification for the Danish market.

Regards

SAFI s.r.l.

REFERENCE STANDARDS

- Directive2006/42/EC- "Machine Directive";
- Directive2006/95/EC - "Low Tension";
- Directive2004/108/EC - "Electromagnetic Compatibility";
- European temperature standard
- Standard EN81-43: 2009 - "Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 43: Lifts for cranes".

DESCRIPTION

POWER OPERATED LIFT ATTACHED TO CRANES

Composed by the following elements:

BASE: Heavy-duty steel frame - hot-dip galvanized - positioned on the ground by means of fixing bolts on a reinforced-concrete slab (or crane's counterweight).

VERTICAL MASTS: Made by hot-dip galvanized modular components ("C" section) which height is 2000mm. Connected by means of galvanized steel tie rod screws with self-locking nut or GROWER washer.

ANCHORAGES: Made by hot-dip galvanized components. Directly fixed on the crane.

MOTOR GROUP: Frame made in heavy-duty steel sections. Rack and pinion transmission with guide rollers and counter-rollers - mounted on bearings.

CABIN: "SANDWICH" enclosure panels type.

CABIN DOOR:

✓ IN-OUT: Gate with reduced height (h=1100mm) supplied with tail leaf and lateral parapets; Compatible for lateral access (horizontally sliding door) from the ground (ONLY with protection net).

WELL PROTECTION:

✓ At the landing floor: Landing gate (with 1100mm height) – horizontally sliding (option: swivel gate), with mechanical lock and enclosure limit-switch.

MODEL TECHNICAL SPECIFICATION

✓ Maximum payload [daN]:	200
✓ Nr.of persons:	2
✓ Cabin dimensions (LxWxH) [m]:	1,0x0,9x2.300
✓ Nr. of gear-motors:	1
✓ Rack module:	6
✓ Rated power [kW]:	3
✓ Power supply [V]:	230/400
✓ Power supply [Hz]:	50
✓ Lifting speed [m/min.]:	7.5 – 20 - 40
✓ Weight at the base [daN]:	-

INSTALLED DEVICES

SELF-BRAKING GEAR-MOTOR: Installed inside the cabin and directly reachable – by removing the protection cover - for maintenance.

INVERTER: For gear-motor management.

PLC (Programmable Logic Control): For signals management (limit-switches, etc.);

EMERGENCY BRAKE: Centrifugal parachute brake, with speed detector.

LOAD CELLS: Adjustable (from authorized personnel only) payload detection system.

LIMIT SWITCHES: Rise, descent and emergency; Landing floor stop; Landing and cabin doors, Parachute brake intervention.

SHOCK ABSORBER: Neoprene bumpers installed on the bottom base.

VISUAL DEVICES: Cabin light; Emergency lights; Flashing "Emergency brake activated" light.

ACOUSTIC DEVICES: Emergency siren.

MANEUVER PANEL: Control panel inside the cabin, fitted with:

- ✓ Protection class: IP55;
- ✓ Main switch command;
- ✓ Emergency push button;
- ✓ Control light for normal conditions;
- ✓ Control light for overload condition and/or failure condition;
- ✓ Auxiliaries push button;
- ✓ Self holding push button.

FLOOR PUSH BUTTONS: Push-button panel to call the lift ("MAN-PRESENT" type).

OTHER DEVICES: End mast element with half rack; Cabin and landing gates with electro-mechanical locking devices.

EMERGENCY MANUAL DESCENT: From the cabin by means of emergency manual maneuver (in case of power supply lack).

EMERGENCY BRAKE RESET: From the cabin by means of emergency manual maneuver.