



# TRUCK MOUNTED KNUCKLE BOOM HYDRAULIC CRANE PROPOSAL

## Technical Specifications

### Chassis of Crane

- The Crane and outriggers are mounted on its own chassis. This chassis is connected to the vehicle's chassis with screws and studs. In case of vehicle malfunction, the full set of the crane can be connected to another vehicle. .

### Steel Construction

- The Crane chassis is made to set foot booms DOMEX-700 quality steel sheet, the main boom and the upright boom are produced from high-strength ALFORM -700 or equivalent material.

### Rotation System

- Slewing ring, planetary reducers, hydraulic motor, hydraulic brakes and endless rotation hydraulic distributor work on the Crane.

### Outriggers

- 2 pieces under the crane, 2 pieces in the rear part 2 pieces under the chassis vertical and horizontal mobile hydraulic outriggers of the balance are made (total 6 pieces). These outriggers are mounted in the frame of the crane. During the operation of the crane come down, the vehicle's chassis, axles and shears is unable to load.
- Combined bending and torsion foot booms sensitive resources, etc. as resistant high-strength material type of box is manufactured.
- On the foot of retainers imported blocking valves are used.

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**ASELKON VİNC KAMPÜS MAKİNA SAN. Ve TİC. LTD. ŞTİ.**

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### **BoomSystem**

- There are 1 upright boom, 1 main boom, 1 folding boom 6 hydraulic extension booms basically. And 2. folding boom5 hydraulic extension booms and 3 mechanic booms.
- Wear and reduces friction between the main boom and telescopic booms guide Kestamide.
- Folding booms and telescopic booms areas nonagonproduced from high-strength imported material.(ALFORM-700)

### **Body**

- Case's length are designed in accordance to length of vehicle chassis.
- The base of case are produced as 5 mm from checker plate.

### **Security(Optional)**

- Besides, a weight control system will be equipped that records which boom worked how long and these records can be transferred to computer via USB then duration of maintenance and wear statistics of crane can be calculated.
- Pressures, load by percent, total working time and angles of the boom can be followed on the screen display in real-time.
- The opportunity to watch from the operator panel by dual-axis motion tracking camera system and battery can runs for 20 hours, wireless data transfer ability.
- ASELKON Crane monitoring software and hardware system that every 5-10 minutes electronic recordings and GPS coordination can be send by email through remote monitoring system in areas where the GSM network and electronic system

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### **Hydraulic System**

- Double-acting hydraulic cylinders and honed from high-strength material (at least the quality of ST-52 or equivalent) will be produced.
- Rods precision-machined, hard chrome-plated high-strength material to (at least the quality of Ç-1040 or equivalent) will be produced.
- The hydraulic system; machine, hydraulic system and an overload in order to protect the people working under the machine, waiting for a long time to load the hose burst and pressure relief, load holding (Over center) and twin locking valves shall be used.
- Normal engine speed of the vehicle will provide 250 bar pressure pump continuously.
- Do operate the system easily (max. 350 bar pressure) imported or origin piston pump will use
- The system maximum working pressure will be 250 bar.
- The system will be provided on the suction and return filter cleaning system using the system will be healthy and long life.
- Hydraulic plumbing pipes, seamless steel pipe imported from cold-shooting will be covered with phosphate ST37.
- The hydraulic hoses will be R2 double wire braid.
- A record thimbles used for Installation will be imported.
- Hydraulic oil tank capacity of the crane will not interfere with the operation capacity will be selected.
- At all levels, hydraulic installations pressure can be read from manometer bar and kg/cm<sup>2</sup>.

### **Additionally;**

- Bronze bearing joints to be used in all places on the crane and bolt will be heat treated
- All bolt holes to be drilled and connected at one time, Thus bolt holes become parallel to each other and strains will be prevented
- Heavy burden proof toolbox on suitable part will be built and chassis and body connection will be built for prevention of fall down



### **Price**

- |                       |   |
|-----------------------|---|
| • Pump                | Sunfab(ASELKON)                               |
| • Stell Boom Group    | ALFORM-700 or DOMEX960 (ASELKON)              |
| • Crane Control       | Walvoil (ASELKON)                             |
| • Foot Control        | Walvoil (ASELKON)                             |
| • Reducer             | Dinamic Oil (ASELKON)                         |
| • Valves              | OilComp (ASELKON)                             |
| • Rotation Filter     | Ikron (ASELKON)                               |
| • Suction Filter      | Ikron (ASELKON)                               |
| • Hoses               | Manuli (ASELKON)                              |
| • Installation pipes  | Benteler (ASELKON)                            |
| • Hoses Drum          | Demac(ASELKON)                                |
| • Hydraulic Cylinders | Materialsoriginally Europeanmade by ASELKON   |
| • Ring Gear           | IMO (ASELKON) 1380mm diameter external thread |

### **Payment**

50 % Advance with the Order Confirmation

50% Before delivery of good(s)

### **Delivery**

25 Days Ex-Factory after receiving the Advance

### **Warranty**

The warranty period of the Crane will be 24 months or 3750 hours (which comes first) by certificate of the Ministry of Industry and Trade.

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