

USER FRIENDLY OPERATOR INTERFACE

7" monitor shows all machine geometrical data and working area, replacing all cockpit instruments. Complete diagnostics is a further feature.

Operating data shown:

- Working radius and height
- Work area top view
- Warnings and alarms
- Boom angle and extension
- Jib angle and extension
- Maximum working limits
- Truck tilt level - Basket load
- Engine and transmission data
- Diagnostic messages
- Water monitor conditions
- All Inputs and outputs
- Movement & Joystick condition
- Ladder steps alignment
- Optional camera page

Some interface pages:



The "Fire Global" Fire-Fighting Machines Global Control System

Complete, Full performances, Full features system CAN-BUS State of the art solution Specially designed for all fire-fighting Access Ladder Platforms.

Fire Global System fully complies with EN 1777, EN13849 "SIL II Pld Safety" standards and EMC "Heavy Industrial Enviroment" of Machines Directive.

System also performs automatic truck self levelling and cage self levelling.

Fire Global System can be installed on all kind of machines to increase their performances



Fire Global system keeps all hydraulic and electric components of the machine under control.

Fire Global system performs: redundant out-reach control, on-line machine stability calculation and speed controlled by proportional valves depending on working conditions, load into basket, boom angle/extension, anticollision, wind speed,....

Fire-Fighting applications' unique software has been developed for truck stability and boom tilting moment calculation; online comparison allows machines to operate with variable extension of single outrigger jack.

Main CAN-BUS link also allows to get information from new generation engines, or any other installed electronic CAN-BUS unit and to manage them directly by means of the colour TFT display..



Rekarma Makine San. & Tic. A.Ş.
Kimya Sanayiciler Org.San.Bölğ.
Aromatik Cadde No:37 34956
Tepedören - Tuzla / İSTANBUL / TURKEY
Tel:+90 216 593 09 42 Fax:+90 216 593 09 45
www.rekarma.com

GENERAL CHARACTERISTICS

- Full machine electronic control.
- Double CAN BUS link: OPEN / J1939
- Complete diagnostic system
- Dynamic graphic TFT color monitor
- GPRS remote control / GPS localisation
- Data Logger & Preventive Maintenance

SAFETY FEATURES

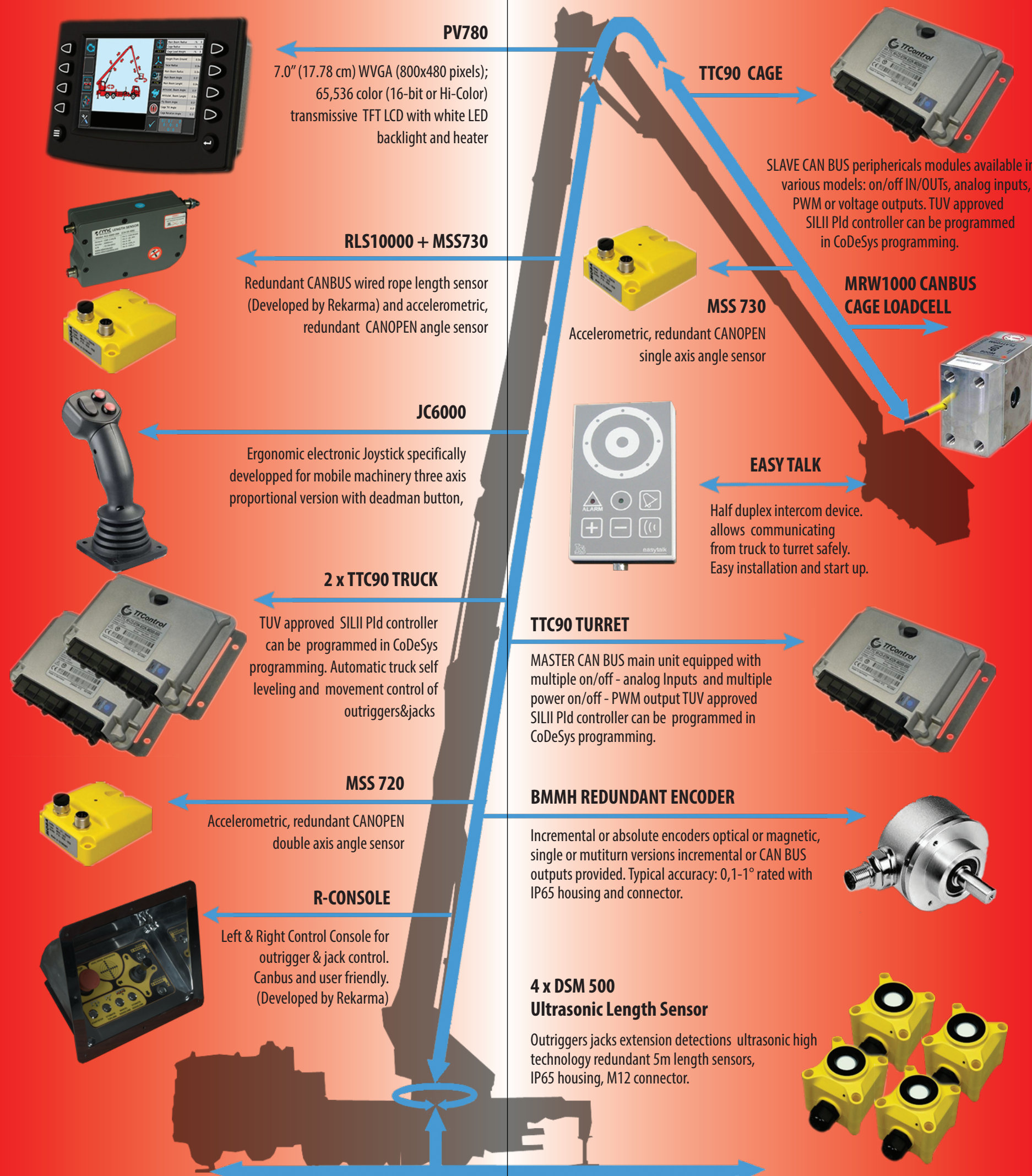
- Area limitation based on outrigger extensions
- Outreach limitation according to machine working diagram
- Cage load limitation
- Turret slewing limitation

BOOM CONTROL

- Speed Reduction of each element depending on machine geometrical limits. - Start/stop movement ramp control
- Automatic slow down from warning sign start, up to safety stop.
- Quick machine setup.
- Automatic machine closing to rest position.
- Ladder steps alignment control
- System can memorize machine geometrical position and warn to operator for reach to same position with arrows by screen. (Memo function)
- Fiber optics data transmission to cage. (Optional)

TRUCK CONTROL

- Automatic truck levelling on outriggers.
- Outriggers jacks position
- 360° stability calculation
- Outrigger and jacks movement control
- Outriggers control separate panel.



PV780
7.0" (17.78 cm) WVGA (800x480 pixels); 65,536 color (16-bit or Hi-Color) transmissive TFT LCD with white LED backlight and heater

RLS10000 + MSS730
Redundant CANBUS wired rope length sensor (Developed by Rekarma) and accelerometric, redundant CANOPEN angle sensor

JC6000
Ergonomic electronic Joystick specifically developed for mobile machinery three axis proportional version with deadman button,

2 x TTC90 TRUCK
TUV approved SILII Pld controller can be programmed in CoDeSys programming. Automatic truck self leveling and movement control of outriggers&jacks

MSS 720
Accelerometric, redundant CANOPEN double axis angle sensor

R-CONSOLE
Left & Right Control Console for outrigger & jack control. Canbus and user friendly. (Developed by Rekarma)

TTC90 TURRET
MASTER CAN BUS main unit equipped with multiple on/off - analog Inputs and multiple power on/off - PWM output TUV approved SILII Pld controller can be programmed in CoDeSys programming.

BMMH REDUNDANT ENCODER
Incremental or absolute encoders optical or magnetic, single or mutiturn versions incremental or CAN BUS outputs provided. Typical accuracy: 0,1-1° rated with IP65 housing and connector.

4 x DSM 500 Ultrasonic Length Sensor
Outriggers jacks extension detections ultrasonic high technology redundant 5m length sensors, IP65 housing, M12 connector.

TTC90 CAGE

SLAVE CAN BUS peripherals modules available in various models: on/off IN/OUTs, analog inputs, PWM or voltage outputs. TUV approved SILII Pld controller can be programmed in CoDeSys programming.

MSS 730
Accelerometric, redundant CANOPEN single axis angle sensor

MRW1000 CANBUS CAGE LOADCELL

EASY TALK
Half duplex intercom device. allows communicating from truck to turret safely. Easy installation and start up.

CAGE CONTROL

- Automatic Cage self levelling
- Automatic warning at $\pm 10^\circ$ deviation
- Control of PWM proportional valves .
- Reduntant load limitation
- Cage collision to external obstacles by ultrasonic sensors.
- Optional cage display.
- Automatic work chart selection depending on cage weight. (1/2/3 person)
- Intercom analog communication to turret.
- Cage automatic centering
- Cage extension valves control
- Water monitor control
- Speed reduction according to Wind speed

TURRET CONTROL

- Movements control through 2-3 axis proportional joysticks.
- Control of PWM proportional valves.
- Turtle/Rabbit speed mode selection
- Adjustable Turtle and Rabbit speed by display
- Turret slewing angle measurement and automatic centering

ENGINE CONTROL (Optional)

- Main engine and auxiliary engine connection by SAE J1939 line.
- Battery voltage indicator
- Engine oil control
- 220 / 380 V Electrical generator control
- Engine / transmission diagnostic codes and messages on monitor