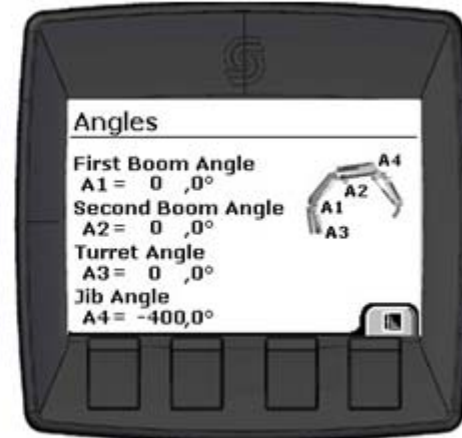
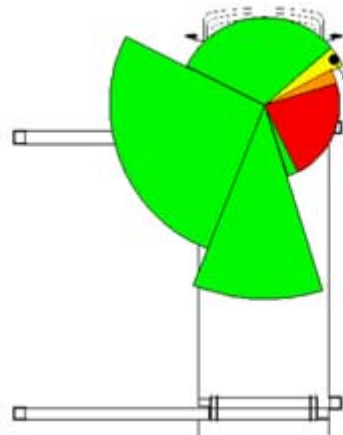
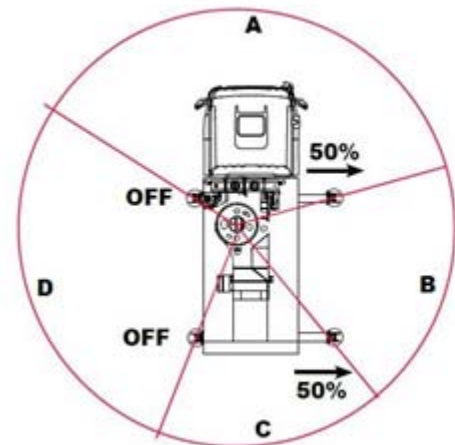


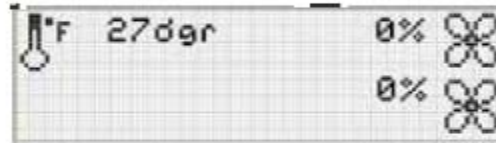
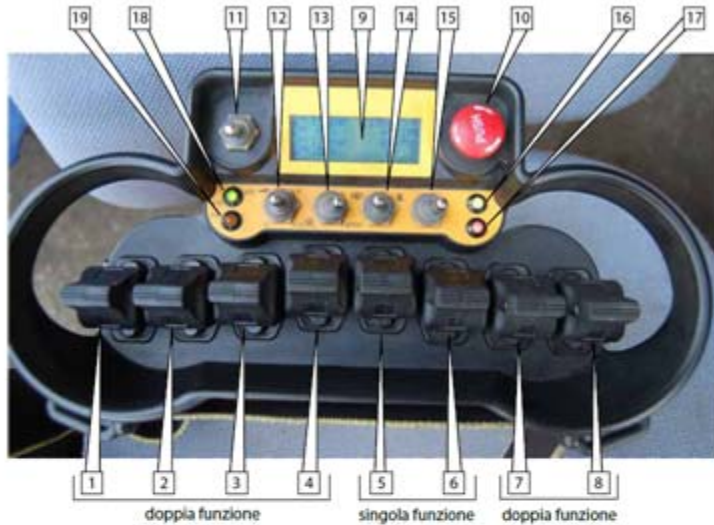


PROGRESS is the new electronic system for monitoring and handling the crane, engineered by EFFER.

PROGRESS can guarantee a full crane control in order to maximize performances and safety.

PROGRESS optimizes completely the truck stability in any working condition and gives to operators a visual feed-back (numerical & graphical) about the crane's performance.





Visualization of the pressure values inside the cylinders of the different booms and lifting capacities at hook;

Visualization of the crane working configuration: booms and column slewing angles;

Oil temperature inside tank and oil cooler;

Visualization of the correct opening of the crane's outriggers support

Every Effer crane equipped with PROGRESS complies with the safety level “Performance Level C” referring to the new Machinery Directive EN 12999 / 2010.

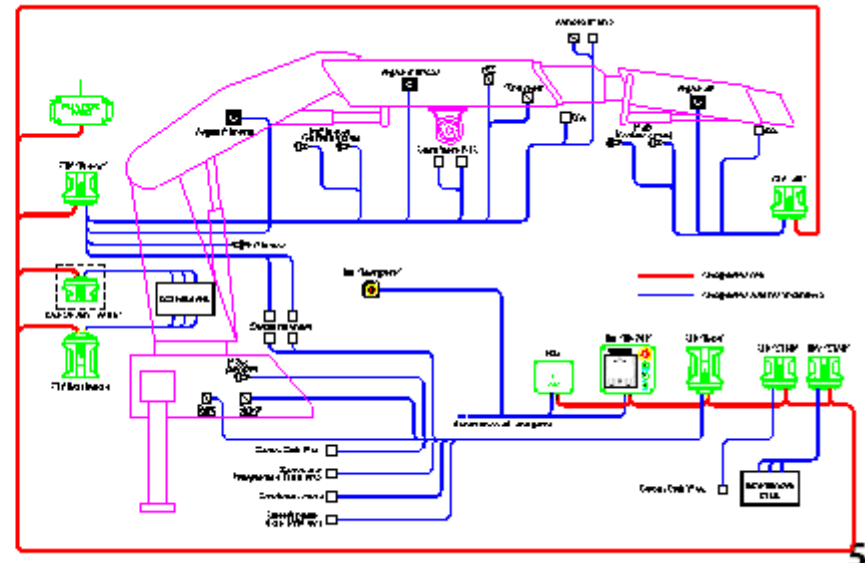
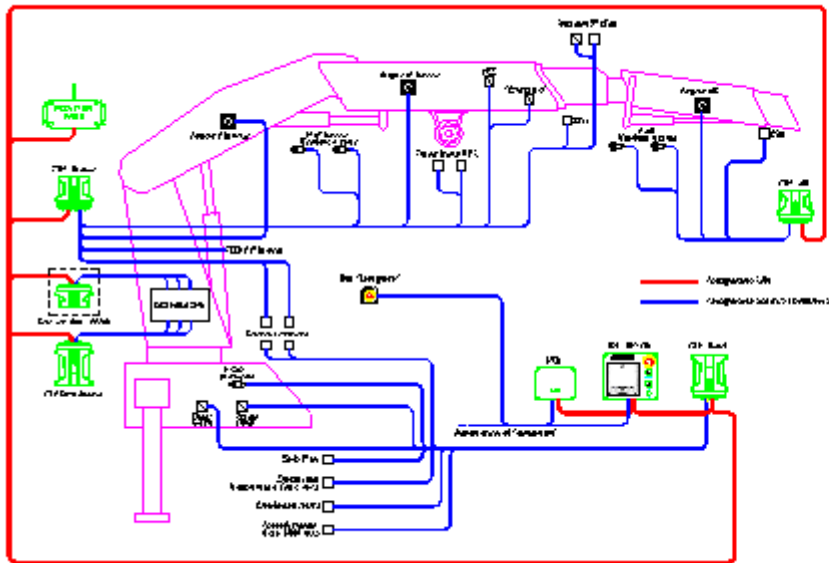
In case of aerial basket application, the crane complies with the safety level “Performance Level D” as referred to the above mentioned Directive.



Thanks to the CAN-BUS system, PROGRESS is transmitting continuously all the significant data to the radiocontrol and viceversa the same to the controlbank modules.

The data elaborated by PROGRESS allow to maximize the operational speeds and handle the movements of the different crane elements having the highest operational safety.

Images representing the CAN-BUS system on a generic application



PROGRESS maximizes the crane operational speeds by keeping constantly under control:

- * the geometrical position of booms, hydraulic jib, winch and column slewing angle;
- * the lateral extension of the single crane stabilizers and the supplementary ones;
- * the value of the load applied to the hook;
- * the number of simultaneous movements set up by the operator by managing the antisaturation (flow-sharing);
- * the speed selected by the operator through the radiocontrol.

PROGR  **SS**

Main PROGRESS components:



Wide display fitted on the crane



Column slewing sensor

Main PROGRESS components:



Booms angle sensor



Outriggers support sensor

Main PROGRESS components:



Mounted sensors located on the booms angle and outriggers support

PROGRESS rules the functionality of the crane itself and its accessories, like:

- * hydraulic jib;
- * winch;
- * rotator / bucket;
- * manual extensions;
- * aerial basket.

PROGRESS 

PROGRESS plus:

- * maximum lifting capacity in any working conditions;**
- * fastest operational speed with and without load;**
- * excellent crane control thanks to the simple and complete data display;**
- * maximum operational safety;**
- * dynamic speeds control;**
- * zero load swinging and minimized stress to any structural elements;**
- * all movements under control;**
- * highest positioning precision;**
- * complete working freedom;**
- * better and longer working life.**