

# Boomerang



## Our strength:



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### Dynamic weighing without any restrictions

**BOOMERANG** is the dynamic weighing system par excellence! We guarantee the excavator production, i.e. the operator does not need to stop the boom, he does not need to put the dipper arm in a particular position, he does not need to weigh before turning, in one word he does not waste time!

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### Weighing point

**BOOMERANG** let you choose the weighing point where you want along the boom.

This feature allows the operator to fit the weighing system to the work he is carrying out, this means that he does not waste time!

A weighing system for excavator with a fixed weighing point will never be able to give the operator the opportunity to measure the quantity of material picked up both from a digging and a

3

### Planar sensor

**BOOMERANG** is the only weighing system that check the planar position of the carriage and the proper compensation in the measurement of the weight. The tilt of the machine can be seen in degrees on the display

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### Speed compensation

**BOOMERANG** is the only weighing system that is able to calculate the weight while compensating and showing at the same time the lift speed of the bucket .

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### Angular sensors

**BOOMERANG** is the only weighing system on the market that uses angular sensors. They are high precision devices that must be installed both on the dipper arm and on the boom in order to check the rotation and allow the calculation of the weight in any point of the working area. The effect of centrifugal force in the angle measurement can be noticed during the machine rotation in all the systems that use the gravitational sensors (pendulum). For this reason **BOOMERANG** system uses angular sensors that, thanks to a small mechanic arm, can measure the degrees of the angle created between the carriage of the machine and the boom and of the one created between the boom and the dipper arm. This choice gives **BOOMERANG** the possibility to weigh up to the first quarter of the excavator rotation without being disturbed by the centrifugal force or the inertia caused by the arm movements.

AREA DI LAVORO

ANGOLO SOLLEVATORE



COMPENSAZIONE DELLA PLANARITA'



SPEED COMPENSATIONS



ANGOLO PENETRATORE

