BUILDING AND CIVIL ENGINEERING WORKS - BODYBUILDER - HANDLING EQUIPMENT

# Our special projects



on of a detachable boom for a wheeled excavator.

Height-adjustable cabin on a wheeled material handle



HISTORY.

# Teams of professionals at your service



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### Authorized distributor



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## DEVELOPED AND PATENTED BY



## TECHNOLOGICAL INNOVATION



#### FOR HANDLING EQUIPMENT, BUILDING AND CIVIL ENGINEERING WORKS

COMBINES PERFORMANCE, COMFORT, AND PROTECTION OF THE ENVIRONMENT



# performance

## Reduce your fuel consumption!



The more demands are made on the equipment in terms of performance and loading and unloading cycles, the more significant your fuel savings will be.

This reduces your fuel consumption and

therefore your fuel bill, and also reduces pollution.

## **Get a quick return on your investment!**

The low cost of the Eco'nergy system combined with the obtained savings on fuel costs allows for a ROI in 12 to 18 months.

#### Dramatically reduce equipment wear and tear!

The power generated by this system significantly reduces wear of the vital components of your machines.

## A universal system!

The Eco'nergy system fits all types of equipment of all brands, whether new or used.

# comfort

#### Improve operator comfort!

Sudden movements are amortized by the system, protecting the operator's cabin against jolts or vibrations.

Precise movements, such as grading, are easier to execute thanks to the total disappearance of the weight of the arms and other parts.

## Intelligent comfort!

When in operation, the equipment's automatic control system is completely transparent and adapts itself automatically on the basis of the work done and the accessories used.

# sustaínable development

## Protect the environment!

Substantial reduction of greenhouse gas emissions as well as CO<sub>2</sub> emissions into the atmosphere.

**Less pollution** less carbon tax!

#### Standard equipment



The power needed to lift the entire arm (70% of the total weight) and the loaded bucket (30%) results in a high fuel consumption as well as a loss of energy during the lowering of the arm.

# Equipped with the <u>econergy</u> system ACCUMULATOR GAS



The dead weight energy (arm + empty bucket = 70%) is recovered during arm lowering operations and stored in nitrogen accumulators which, under the effect of the compressed gas, release the oil according to the bucket's activity. The load is then compensated for by the pump.



hydraulic circuit. the accumulator.

Accumulator



Hydraulic



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# TECHNOLOGICAL ΝΝΟΥΑΤΙΟΝ

During the lowering operation, gravity is all that is needed to make the complete arm move down. The energy from this gravitational force can be stored in order to reuse it during the lifting of the arm.

The recovered energy can be used to lift the weight of the arm and the attachment. The hydraulic pump only needs to provide the energy required to lift the load and to cover any pressure drop in the

The circuit functions in the traditional way during first use or when the accumulator is empty.

The pump provides the energy for the two cylinders.

With the kinetic energy generated during the gravitational lowering of the arm, the oil at the bottom of the cylinder is recovered to charge

And finally, during the lifting process the accumulator releases the energy needed to lift the weight of the arm and the attachment. The hydraulic pump is only used to lift the load.

