



23RD SAMOTER INNOVATION AWARD *International Technical Innovation Competition*

THE WINNERS



**WACKER
NEUSON**
all it takes!

WINNER
in the category
HYDRAULIC EXCAVATORS | MINI
with
EZ17e

“for efficiency and optimal integration of electric propulsion with a design identical to the diesel version”

“for performances identical to the classic diesel version despite ensuring null gas and noise emissions”

The battery powered EZ17e mini excavator is the new model „zero emissions“ in the Wacker Neuson range and will be launched on the market in Spring 2020.

It boasts the same performance and functions as the EZ17 diesel model and is the ideal solution for tasks where emissions and acoustic impact must be minimised, such as urban areas, indoors or on construction sites adjacent to schools and hospitals.

From an ergonomic point of view, it is also the ideal solution for work in confined spaces.

Its advantages also include battery duration ensuring that the excavator can be used for a full working day.

KOBELCO

WINNER
in the category
HYDRAULIC EXCAVATORS | MIDI
with
SK75SR-7

“for the high standard of comfort and human-machine interface on an excavator in this category”

“for bringing the set-up levels of top models to a compact excavator of this kind”

“for the set-up level envisaging high added value safety devices”

Kobelco’s SK75SR-7 excavator combines simple and elegant design with maximum operator comfort, while equally ensuring higher performance levels in terms of efficiency and productivity, broad visibility and easy maintenance. The very spacious cabin with a heated seat and air suspension as standard, ergonomic armrests and joysticks that move with the seat to ensure optimal posture are just some of the features available on the excavator to ensure very comfortable working conditions for the operator. The cab also has 10-inch user-friendly multi-function colour display allowing easy adjustment of the attachments and customisation of user preferences.

The new SK75SR-7 also features the innovative iNDr - Integrated Noise and Dust Reduction Cooling System that helps reduce the noise generated by the machine as well as providing an additional dust barrier, thereby ensuring even better cleaning of the engine compartment and better cooling.

HIDROMEK®

WINNER
in the category
HYDRAULIC EXCAVATORS | CONSTRUCTION
with
HMK230LC - H4

WINNER
SPECIAL DESIGN AWARD

“for the level of integration of all components with evident advantages in terms of efficiency, productivity and manoeuvrability”

“for ergonomics ensuring simple and effective use in all operating conditions”

“for the high level of safety achieved with standard equipment as regards operator protection and overall visibility of the work area”

Thanks to improvements to hydraulic components, the new HMK230LC-H4 excavator stands out through its operating speed, increased productivity and even better efficiency. In addition, design focuses on two fundamental aspects: high standards of safety and simple yet sturdy build with intuitive functions and applications that assist operators using the machine so that they can concentrate more closely on their own work.



WINNER
in the category
HYDRAULIC EXCAVATORS | SPECIAL APPLICATIONS
with
A-SAC
ADVANCED SELECTABLE AUXILIARY CONTROL

“for the evolution of the SAC system through significant improvements adding important functions as regards versatility and ease of use”

“for increases in efficiency thanks to optimised use of equipment and hydraulic functions”

“for increases in safety thanks to correct setting of the equipment”

The exclusive SAC system launched in 2018 allowed operators to customise control settings of auxiliary hydraulic circuits on Bobcat excavators in relation to user configuration preferences when using special attachments/accessories. This is all achieved while the operator continues using the joysticks to perform tasks, thereby ensuring even higher productivity.

The A-SAC - Advanced Selectable Auxiliary Control system improves the functionality of the SAC device by also allowing adjustment of the speed of each function to adapt to specific tasks or operator skill levels. The operator can store up to seven different speed configuration combinations for various, thereby increasing precision when using specific attachments.

The A-SAC system will be available as an optional on Bobcat R series excavators.



WINNER
in the category
WHEELED LOADERS | MEDIUM
with
HL960A

“for the evolution of a project paying maximum attention to management of operating costs, operating efficiency and design ensuring maximum visibility and operator safety”

The new HL960A wheeled loader complies with European Stage V emission levels and ensures consumption efficiency, top performances even in situations of prolonged operation, higher productivity and optimised work time management, high safety standards, improved visibility and maximum operator comfort.

LIEBHERR

WINNER
in the category
WHEELED LOADERS | SPECIAL APPLICATIONS
with
**ACTIVE PERSONNEL DETECTION
FOR ACCIDENT PREVENTION**

*“for effective increase in safety at work
designed to safeguard personnel
involved in the production process.
The system is ideal not only for wheeled loaders
but also all machines where rapid movement
poses high risk levels on building sites”*

Despite cameras and state-of-the-art visual aids, monotonous and repetitive operations may still result in loss of operator concentration. The active detection system highlights any dangers in the area at the rear on a display and through acoustic signals, distinguishing independently between people and static objects such as walls or columns through sensors. The aim is to prevent injuries on building sites and ensure maximum safety and less stress for operators: When people may be present in danger zones - workers, unauthorized personnel or even casual passers-by - the system is activated at a greater distance and signals any imminent hazard.



WINNER
in the category
TELEHANDLERS | COMPACT
with
E-WORKER

“for the elimination of gas and noise emissions”

*“for efficiency and versatility achieved
through off-road mobility and the inclusion of a
Mobile Elevating Work Platform on a vehicle
of this kind and these dimensions”*

*“for manoeuvrability in all operating conditions,
low management costs and battery duration
achieved by technology applied to the
hydraulic system and the power train.”*

The E-WORKER telehandler by Merlo is available in industrial and agricultural versions. Its handling capacity is the same as an industrial fork lift, flanked by high efficiency and low operating costs. This ultra-compact system is equipped with a telescopic boom, multi-tool carriage and day-long battery operation; it achieves wide steering angles thanks to 4 drive wheels having identical dimensions and rear wheels (Powertrain) and is ideal for handling materials and cleaning structures.



WINNER
in the category
TELEHANDLERS | HIGH CAPACITY
with
RTH 6.51

*“for operating capacity linked to maximum height
to increase flexibility as regards applications
where small off-road crane trucks are normally used”*

*“for versatility and compactness in relation to
the heights and capacities achieved”*

*“for technological optimisation associated with
hydraulics, the power-train, the sections of the boom
and stabilisation with proportional movements”*

The new RTH 6.51 rotary telehandler has a maximum capacity of 6 tonnes and can reach heights of up to 51m without pressure drops thanks to technical solutions designed to increase the stiffness of the hydraulic cylinders, the type of axle used and the strength of the sections of the boom.

Rotary performances are also improved and extremely modular, thereby ensuring operator safety and optimal control even in heavy-duty operating contexts.

Specific tyres ensure an excellent duration and very high performance for wheel mounted models.



WINNER
in the category
ATTACHMENTS
with
TFC 400

“for improving the concept of the milling head applied to the catenary system”

“optimised efficiency and versatility when excavating narrow trenches to lay pipes, conduits and ducts”

“for improved productivity in tunnel applications”

The continuous milling-cutting machine with double drum and central chain is the ideal attachment for excavating narrow trenches, in-depth milling on vertical walls and tunnel roofs, as well as profiling flat walls.



WINNER
in the category
SOFTWARE APPLICATIONS
with
X-CENTER

“for the vital contribution to excavation processing efficiency, in terms of efficient integration between project, machines and work progress, as well as operating cost management”

The X-Center system, through drone surveys and automated field data digitalization, can be used to estimate the volume of material to be moved. It provides rapid and essential sophisticated support for operational planning and efficient task management via features of X-center including:

- 1) a click-based site analytics tool;
- 2) progress monitoring tool;
- 3) seamless communication tool.



WINNER
in the category
PLANTS
with
ROBO LEVELING

“for introducing automation and quality process control into the screed sector, a segment generally reluctant to accept technological innovation to increase efficiency and ensure that vital processes such as laying are more precise”

“for having decisively improved the working conditions of screed laying personnel”

Robo Leveling is track-laying robot-controlled vehicle used for automatic distribution of material, compaction, levelling and smoothing of screeds and substrates. It helps ensure improvements in working conditions and the manual tasks performed by operators with a consequent increase in productivity for companies involved in road paving work.



WINNER
in the category
CRANES
with
MC5000RE

"for revolutionizing and expanding the electric pick & carry concept"

"for the stability control device which ranks the system at the highest levels in the hoisting/lifting sector"

"for improved exploitation of two very different machines by combining them in an efficiently and functional manner"

"for expanding the field of application for pick & carry thanks to an advanced machine capable of operating in very different contexts"

The JMG Cranes MC 5000RE articulated crane boasts a lifting capacity of 50 tm. It is mounted on a self-propelled, battery-powered carriage with cushion wheels that leave no tracks. Compactness means this system is ideal for work indoors and in confined spaces; it is also able to climb ramps and semi-trailers independently. Thanks to the correct weight balance, the machine is very stable and ensures higher capacity.



WINNER
in the category
INDUSTRIAL APPLICATIONS
with
CLEAN CABINET

"for efficiency, economy and reduced environmental impact when cleaning hydraulic plant for earth moving machinery construction stages as well as routine and special maintenance operations"

Clean Cabinet equipment is designed by Oilsafe and is used to extract and collect industrial contaminants (from pumps, engines, valves, distributors, etc. even with complex geometries) through a flushing system combined with pressurised rinsing, as well as image analysis to evaluate extracted contaminants and then issue a certificate of conformity according to ISO 16232/VDA 19/ISO 4406 regulations. Process automation is made possible by integrating the device into the production line. The control panel acquires remotely monitored data. Clean Cabinet allows manufacturers and end users of hydraulic components and systems to ensure and certify the cleanliness of their products quickly, efficiently and economically.

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