



THE WINNERS

EXPERTISE – INNOVATION – NETWORKING

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2015*

THE WINNERS

CONSTRUCTION EQUIPMENT



GOLD AWARD

WACKER NEUSON GROUP

Mini excavator 803 dual power



SILVER AWARD

ALPHI

TopDalle Eco



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MARINI-ERMONT - RF 160 Neo
New generation continuous asphalt plant

EQUIPMENT & COMPONENTS



GOLD AWARD

LIEBHERR FRANCE SAS

Lift crane operator



SILVER AWARD

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Quick coupler M-Connect

ENGINEERING & SYSTEMS



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MERLO

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MS

Water treatment plant for the elimination of Chromium VI and Total Chromium

WORLD OF CONCRETE EUROPE AWARD



TEKLA

TEKLA Structures Construction Modeling

JUDGES' SPECIAL



BRIDGEND EXTRUSION LTD

K-Form

CONSTRUCTION EQUIPMENT



Stand n° Ext 5 E 004

WACKER NEUSON GROUP

Mini excavator 803 dual power



DESCRIPTION

The formula for emission-free excavating from Wacker Neuson = excavator 803 with dual power option + electro-hydraulic unit HPU8. In addition to the integrated diesel engine, the unit HPU8 can be connected to the excavator 803. Thus, the excavator can be operated electrically and completely emission-free, e.g. in indoor applications. In outdoor applications, the excavator can be used in the conventional diesel mode. This gives contractors full flexibility and broadens the range of applications.

OPERATING PRINCIPLE

The excavator can be operated in two modes: diesel or electric. What is special about the dual power solution is that for the operator the sequence of operations remains completely unchanged after the connection of the generator. As it is an external solution, the operating weight, stability and dimensions of the excavator itself do not change, the performance, the tail swing radius and 360-degree rotation remain unrestricted in electrical operation and allow flexibility for the operator.

TECHNICAL DESIGN

With the external electro-hydraulic power unit HPU8, the smallest Wacker Neuson excavator 803 dual power can be operated electrically with zero emissions in addition to its conventional diesel mode. It can be used for work indoors, in sensitive environments but also as a conventional mini excavator. The tail swing radius, the 360 degree rotation of the chassis as well as the operating weight, stability and the dimensions do not change with the option as the power unit comes separately.

ECONOMY

The mini-excavator 803 dual power is a machine that offers the features of a conventional diesel excavator, yet, at the same time, with the dual power option can be turned into a machine for emission-free applications. This saves costs, as contractors only need one machine for various types of working conditions; the option expands the application areas of the mini-excavator to indoors and outdoors and ensures a high machine utilization.

OPERATION

The excavator can be operated in two modes: diesel or electric. What is special about the dual power solution is that for the operator the sequence of operations remains completely unchanged after the connection of the generator. As it is an external solution, the operating weight, stability and dimensions of the excavator itself do not change, the performance, the tail swing radius and 360-degree rotation remain unrestricted in electrical operation and allow flexibility for the operator.

USE

The dual power excavator is very operator-friendly. The transport, the connection of the power unit to the excavator, the operation – everything has been well thought out. E.g., the lifting point bracket of the drive unit HPU8 is also used as a connection lance to stabilize the hose where it is connected to the excavator. The performance and operation remain unchanged in electrical operation. Most important, the user is protected from exhaust emissions when working in the electrical mode.

ENVIRONMENTALLY FRIENDLY

The electro-hydraulic generator HPU8 and the excavator 803 dual power produce zero exhaust emissions in the electric drive mode and thus protect the environment, the operator and the people on the construction site. Working with the electro-hydraulic drive, the excavator also produces significantly lower noise emissions and, as a result, can be used in sensitive surroundings such as hospitals, schools and indoors.

ADDITIONAL INFORMATION

The hydraulic power unit HPU8 has been designed specifically for excavator operation and is characterized by its compact and sturdy design and a cooling capacity, which has been tailored for the compact excavator 803. The unit weighs 190 kilograms and has compact dimensions. It saves space and can be stored and transported easily. The unit was designed for work under full load at up to 45 degrees Celsius as well as at very low temperatures. In addition, the unit is very maintenance friendly.

Press contact

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CONSTRUCTION EQUIPMENT



Stand n° 7 J 067

ALPHI TopDalle Eco



DESCRIPTION

Based on more than 20 years of expertise, ALPHI has developed TopDalle Eco, a new formwork product line for reinforced concrete slabs. This product comprises three new elements: the Eco+ panel, the extendable primary beam and the angular secondary beam. TopDalle Eco is thus safer and easier to use, more environmentally friendly and longer lasting.

OPERATING PRINCIPLE

- The main objectives were to improve safety and productivity, while preventing the dropping of objects, falls from height and tripping, and also making the work easier (manual handling of loads and difficult working positions) by hand-portable elements that offer a weight saving of 20% in relation to currently known solutions, and with more ergonomic operating positions.
- Customer support is simplified as aluminium alloy is easy to repair.

TECHNICAL DESIGN

- Working on a solid surface for better productivity and to limit falls from height, tripping or slipping.
- The continuous adjustment of the extendable primary beam and the angular secondary beam allow working closer to the edges of the cell.
- The extendable primary beam reduces the number of products in the range and increases productivity.
- The shape of the Eco+ panel limits the laitance on the vertical wall.

ECONOMY

- Product in aluminium alloy, which facilitates repair and gives an excellent cost/strength ratio.
- Compatibility with previous product lines.
- Plastic end plugs that absorb impacts and improve productivity through simpler recognition of the various beam models.
- TopDalle Eco is protected by a patented resin that limits the risk of theft.
- The exclusive extrusion system gives a one-piece, wide section beam, offering strength and durability.

OPERATION

- The main objectives were to improve safety and productivity, while preventing the dropping of objects, falls from height and tripping, and also making the work easier (manual handling of loads and difficult working positions) by hand-portable elements that offer a weight saving of 20% in relation to currently known solutions, and with more ergonomic operating positions.
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USE

- The main objectives were to improve safety and productivity, while preventing the dropping of objects, falls from height and tripping, and also making the work easier (manual handling of loads and difficult working positions) by hand-portable elements that offer a weight saving of 20% in relation to currently known solutions, and with more ergonomic operating positions.
- Customer support is simplified as aluminium alloy is easy to repair.

ENVIRONMENTALLY FRIENDLY

- TopDalle Eco provides a safe working zone, exceeding the requirements of decree 2004-924 and compliant with the work platforms standard.
- Less manual handling of loads and difficult working positions.
- Easier working, due to the adjoining Eco+ panels.
- Colour-coded end plugs to identify the beam lengths.
- Enhanced stability: solid working surface and multi-support zones, extendable beam allowing continuous support contact and a stable angular beam.

ADDITIONAL INFORMATION

- This product has been designed as a function of all the production/utilisation chain, from the end user on the site (solutions tested with our customers), to the aluminium alloy extruder (optimised thicknesses), and including the product assemblers (to position welding zones) and the logistics phases (storage space saved).
- Like all the ALPHI formwork systems, TopDalle Eco has been granted the "Guaranteed French Origin" label.

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CONSTRUCTION EQUIPMENT



Stand n° 5a D 137

FAYAT MARINI-ERMONT - RF 160 Neo / New generation continuous asphalt plant



DESCRIPTION

RF 160 Neo, continuous super transportable recycling asphalt plant producing high quality road asphalt at very low cost, over a flow range of 80 to 160 T/h.

OPERATING PRINCIPLE

Versatile solution, enabling high quality asphalt production of Hot mix or Warm mix, with or without Recycling materials. Production with optimal energy efficiency, the RF 160 Neo stands out for its superimposed drying filtering concept with fully insulated gas duct and a very short recovered fines circuit to improve flow management.

TECHNICAL DESIGN

The RF 160 Neo, customizable modular asphalt plant:

- The «essential» version, based on the core modules to produce high quality asphalt, remains upgradeable to meet the new standards.
- A wide range of additional equipment combined with the essential modules in order to respond to all specificities of any jobsite.

ECONOMY

The RF 160 Neo have been designed to reduce asphalt cost across all of its operations:

- Transfer cost : Super transportable concept
- Raw materials cost : RETROFLUX technology (Recycling up to 50 %).
- Maintenance cost : RECYCLEAN technology.
- Energy cost : ECOdry (Optimization of the drying performance) ECOdrive (economic operation aids) ECOstart (Waste minimisation system) ECOenergy (Energy monitoring system) ECOflame (Burner stage anticipation system).

OPERATION

Versatile solution, enabling high quality asphalt production of Hot mix or Warm mix, with or without Recycling materials. Production with optimal energy efficiency, the RF 160 Neo stands out for its superimposed drying filtering concept with fully insulated gas duct and a very short recovered fines circuit to improve flow management.

USE

The RF 160 Neo already complies with the revision treatment of the European standard EN 536, to be published shortly. True concentrate of technology for clear and simple operation:

- ECODRY quick and simple optimization of drum performance.
- ECOdrive facilitates Ecofriendly operation.
- EcoEnergy analysis and generate all kinds of reports of energetic consumption.
- ECOSTART reduces waste materials at the beginning and at the end of production.
- Recycleclean: Recycle without tiring (without a).

ENVIRONMENTALLY FRIENDLY

The RF 160 Neo is the most ECOfriendly solution :

- Reduce raw materials consumption (recycling up to 50% RAP).
- Waste management system at the beginning/end of the production (ECOwaste).
- Burn bitumen fumes (Retroflux technology).
- Reduce energy consumption (ECOdry, ECOdrive, ECOenergy, ECOflame).
- Reduce odours (Foam bitumen technology AQUAblack).
- Reduce noise impact (short & closed circuit).
- Integration into the local environment (low installation height).

Press contact

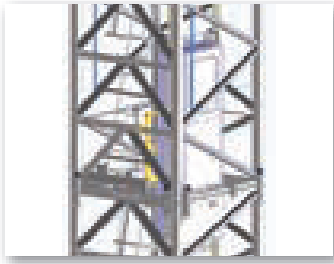
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EQUIPMENT & COMPONENTS



Stand n° Ext 6 E 035

LIEBHERR FRANCE SAS

Lift crane operator



DESCRIPTION

This crane operator lift is made to comply with the recommendation R459, and respect the EN 81-43-2009 and highest safety with Performance Level d (EN 13849) Regulation, and more specifically to overcome the ergonomic work access issue of the crane operator. This unit is designed to be used inside the tower section (up to a tower section 2.30 x 2.30). Due to this, there is no need to dismantle and erect the lift during the crane dismantling.

OPERATING PRINCIPLE

Reduction of the energy consumption by using a battery which will be charged downhill. No battery maintenance. Saving the mounting and dismantling costs for the lift crane operator because situated inside of the tower (about 2000 Euros per operation) ...

TECHNICAL DESIGN

The current solutions available on the market are always outside the tower section, that is why during each dismantling of the crane you have the disadvantage of mounting and dismantling the lift. With the LiUP 200, the lift is pre-installed permanently inside the tower. Only an adjustment between each tower section is required. Productivity gain due to the mounting and dismantling operations (height) of the lift and the rack.

ECONOMY

Implementation costs are reduced thanks to the possibility of the pre installation. Investments limited because the machine is protected by the tower section that means reducing the damage rate (shocks during transport, undo manipulations during mounting or dismantling ...)

OPERATION

Reduction of the energy consumption by using a battery which will be charged downhill. No battery maintenance. Saving the mounting and dismantling costs for the lift crane operator because situated inside of the tower (about 2000 Euros per operation) ...

USE

The crane operator accesses quickly and easily his post, or goes down easily when needed. Saving time for the crane operator. Reduced fatigue No need to go through the tower section when you leave the lift. Security granted by complying with the lift regulation 81-43 and EN 13849 PL d.

ENVIRONMENTALLY FRIENDLY

Battery recharge during descent.

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EQUIPMENT & COMPONENTS



Stand n° Ext 5 K 004

MECALAC

Quick coupler M-Connect



DESCRIPTION

Mecalac was the first manufacturer to equip its machines as standard with a quick coupler. In order to offer always more safer and more versatile machines Mecalac has developed M-Connect : a new quick-coupler, reversible, which avoids to lose the tool. This is the safest and most compact quick coupler available on the market. A detector indicates also when the locking is well done.

OPERATING PRINCIPLE

With M-Connect grasping the tool is easy, fast and safe: The driver sets up the bottom pin of the arm between the ears of the tool and lifts it. The tool is then retained thanks to the hooks, then the driver moves the cylinder bucket until the second pin is in contact with the tool. By controlling the retraction of M-connect cylinder, the second pin comes in front of the locking ears. By stopping the retraction the cylinder extends and then locks and keeps locked the tool.

TECHNICAL DESIGN

M-Connect doesn't need additional pins on the machine. The only new part is a cylinder. There is no maintenance on M-Connect (no additional greasing points ...) It is a very simple and efficient system (pin/hook).

ECONOMY

The grasping ears of the tools needed for the existing quick couplers have approximately the same weight than other adapters. The M-Connect itself is the lightest quick-coupler available on the market (70kg less than current one on a 10T excavator!). This reduction of weight at the end of the arm allows also to reduce the weight of the counterweight (210 kg less for a 10T excavator !). This dual gain on raw material also reduces component wear and reduces energy consumption.

OPERATION

With M-Connect grasping the tool is easy, fast and safe: The driver sets up the bottom pin of the arm between the ears of the tool and lifts it. The tool is then retained thanks to the hooks, then the driver moves the cylinder bucket until the second pin is in contact with the tool. By controlling the retraction of M-connect cylinder, the second pin comes in front of the locking ears. By stopping the retraction the cylinder extends and then locks and keeps locked the tool.

USE

M-Connect ensures a maximum safety in use even during the intermediate phase of locking and unlocking where accidents often happen. As long as the tool is lifted from the ground it can not fall (even in case of misoperation). A sensor indicates also in the cabin when the locking is well done. M-Connect allows also to take in both directions tools designed for this purpose (reversibility).

ENVIRONMENTALLY FRIENDLY

M-Connect is more compact and lighter, it requires less energy and raw material to produce. The complete weight of the machine equipped with M-Connect is lighter, the machine requires less energy to move and work on the job site= less consumption and less CO₂ emissions. Because M-Connect increases the versatility of the machine, the number of machines on job site can be reduced = less CO₂ emissions.

Press contact

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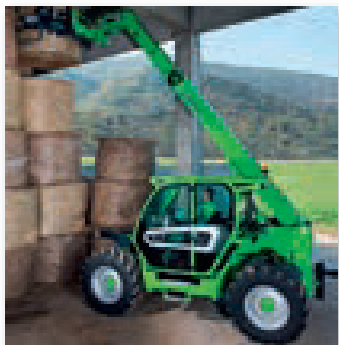
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ENGINEERING & SYSTEMS



Stand n° Ext 5 E 003

MERLO

M TSS - Merlo Transversal Stability System



DESCRIPTION

After introducing the most comprehensive and advanced longitudinal stability management system (MCDC), the company now launches a new, ground-breaking safety feature for the agricultural sector: lateral overturn protection. It prevents lateral overturning by providing the operator real-time feedback on the lateral stability index through a cab-mounted LDC display, a light indicator and a buzzer.

OPERATING PRINCIPLE

The system is completely automatic. It recognizes the attached implements, the weight of the load, the boom geometry and the total balance of the telehandler. The operator works in maximum safety conditions and the machine can perform at its best (Max productivity).

TECHNICAL DESIGN

Specifically, the system's unique features are: Unique back lateral and longitudinal stability management system. In order to guarantee the vehicle's integrated (front/back longitudinal and lateral) stability, the device captures all key parameters linked to the vehicle's stability: i.e. individual wheel loads, boom position, extension, angles, lifted load, chassis tilt angle and boom attachment recognition, 100 times per second.

ECONOMY

The system proposed by Merlo is aimed at increasing safety standards. As far as Merlo is concerned safety represents an essential and fundamental value and therefore the M TSS system will be fitted in base machine and without any price increase to the final customer. After sales services are not expected. It offers economical advantages because it can prevent accidents caused to things and people.

OPERATION

The system is completely automatic. It recognizes the attached implements, the weight of the load, the boom geometry and the total balance of the telehandler. The operator works in maximum safety conditions and the machine can perform at its best (Max productivity).

USE

In order to guarantee the vehicle's integrated (front/back longitudinal and lateral) stability, the device captures all key parameters linked to the vehicle's stability: i.e. individual wheel loads, boom position, extension, angles, lifted load, chassis tilt. The system processes all parameters of the Merlo telehandler on an ongoing basis and intervenes, depending on the type of issue detected, by either warning the operator or blocking any movement that would compromise the vehicle's stability.

ENVIRONMENTALLY FRIENDLY

The system provided by Merlo is made up of sensors, cables and a screen; the electronically-controlled part dedicated to attachments is 100% environmentally friendly. The system will be fitted to the latest generation of Merlo telehandlers which are also equipped with the latest EPD technology, reducing consumption and carbon emissions by 18% on average, and also naturally to our Hybrid model.

ADDITIONAL INFORMATION

Merlo has always given the highest priority to safety and accident prevention. Merlo's vehicles have always been equipped with anti-overturn systems with aggravating movement lock MCDC system (front telehandlers). Once again, thanks to the system proposed, Merlo pioneers a new total stability system for vehicles. This breakthrough development, therefore, represents another milestone in the Merlo Group's history of safety innovation.

Press contact

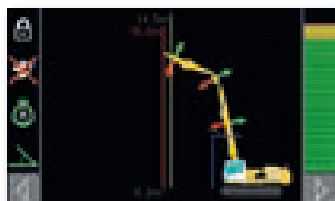
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ENGINEERING & SYSTEMS



Stand n° Ext 6 E 035

LIEBHERR FRANCE SAS

LDC - Liebherr Demolition Control



DESCRIPTION

Liebherr has developed a new unique system called LDC, for Liebherr Demolition Control. This system allows at any time to give to the operator the position of the demolition attachment and to guarantee the stability of the demolition excavator.

OPERATING PRINCIPLE

The extended reach allows the customer to reach additional working area which gives him productivity gain on his jobsite.

TECHNICAL DESIGN

The challenge was to find a solution to integrate this LDC system into the electronics of the excavator and to simplify the manipulations for the operator. This led us to propose an automatic recognition of the attachment lengths, to install angle sensors to know the position of the equipment and to integrate into the display of the excavator the tools types with their weight. To optimize the performances of the excavator an extended reach with limitation of rotation has been developed.

ECONOMY

Due to the integration of the system LDC to the electronics of the excavator the customer needs no more specific components which allowed him to earn money at the purchase and the maintenance becomes easier.

OPERATION

The extended reach allows the customer to reach additional working area which gives him productivity gain on his jobsite.

USE

This new LDC eliminates a possible human error which could affect the stability of the machine. A tactile color display allows to visualize the animation of the position of the attachment in real time and to inform the driver of the authorized movements. A display of the position (flatness) of the machine is also given to the driver.

ENVIRONMENTALLY FRIENDLY

The increase of the working zone allowed by the extended reach allows to realize demolition works with machines of smaller size which reduced consumptions during work and during transport of the machine.

ADDITIONAL INFORMATION

R960 Demolition which will be exposed on our stand is equipped with this new system. We are at present the only manufacturer of demolition excavator who propose such a security system.

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DIGITAL APPLICATIONS



Stand n° 5a G 110

ATLOG LAND2MAP



DESCRIPTION

Using a single piece of software, you can perform topographical surveys, boundary marking, as-built drawing, geolocalised network detection and all kind of setting out needed for road or construction projects. This wide range of features offered by LAND2MAP is made possible through a single user interface for all instruments.

OPERATING PRINCIPLE

The touch pad is used LAND2MAP alone in the field and provides real-time visibility on the AutoCAD drawing that is emerging as the topographic survey . Once back in the office no need to redraw the map . It is estimated a significant improvement in productivity gains between 50% and 75% for activities topography raised or implantation.

TECHNICAL DESIGN

LAND2MAP is 100% AutoCAD software for use with a touch pad hardened 7 ' Panasonic (FZ -M1). Tablet that is connected by long-range Bluetooth connection to the GPS surveying instruments or (and) STATIONS.

ECONOMY

LAND2MAP offers a unique software interface standard for all STATIONS and GPS market (Leica, Trimble , Topcon , ...). LAND2MAP by its 100% graphical interface improves the visibility on the ground for the user while avoiding once back in the office to redraw AutocCAD plans. LAND2MAP commissioned 50% saving at a topographic survey or layout a construction site.

OPERATION

The touch pad is used LAND2MAP alone in the field and provides real-time visibility on the AutoCAD drawing that is emerging as the topographic survey . Once back in the office no need to redraw the map . It is estimated a significant improvement in productivity gains between 50% and 75% for activities topography raised or implantation.

USE

LAND2MAP offers a 100% graphic interface . The tablet 7 ' weighs just 700g and fits directly onto the stick of surveyor technician. Very Lightweight, rugged and waterproof , this tablet offers a lot of visual comfort.

ENVIRONMENTALLY FRIENDLY

Limit the use of paper.

Press contact

ATLOG

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DIGITAL APPLICATIONS



Stand n° 7 E 178

AUTOM' ELEC

TAMIssoft



DESCRIPTION

TAMIssoft is an innovative product designed by Autom-Elec, a Company located in Saint-Etienne and founded in 2004, 16 persons, a turnover of 2,2M€. TAMIssoft is a granulometry measurement system by mean of 3D laser vision. It allows the continuous control of aggregates qualitatif on conveyor belt in the core of the production facilities, for quarries or the recycling units.

OPERATING PRINCIPLE

TAMIssoft is designed to communicate with all automate and monitoring system which allows easy integration in the remote control loop in place.

- Objective measurements to warranty product compliance, with the printing or reports.
- Continuous monitoring to ensure at all the time the quality of the aggregates.
- Hair-trigger alert, integrated with the automated system, automatic tightening of the breaker-crusher.

TECHNICAL DESIGN

TAMIssoft is the first free-contact system performing the continuous measurement of the aggregates granulometry. Up to 1000 acquisitions per second can be carried out on aggregates moving on a conveyor. The 3D technology gives reliable, accurate and rapid measurements.

ECONOMY

TAMIssoft is also offered as a service of the economy of functionality.

We can offer our customer the ability to measure the distribution of the aggregates size. For instance, the user pays only for the printed reports which would become the exchange value.

OPERATION

TAMIssoft is designed to communicate with all automate and monitoring system which allows easy integration in the remote control loop in place. Objective measurements to warranty product compliance, with the printing or reports. Continuous monitoring to ensure at all the time the quality of the aggregates. Hair-trigger alert, integrated with the automated system, automatic tightening of the breaker-crusher.

USE

TAMIssoft is a new tool for laboratories to improve the working conditions, especially the security by avoiding them collecting material bulk in the production plant. TAMIssoft is an easy-to-use software. The installation pilots have an easy graphical user interface that allows to preview in real time the quality of the production. If a non compliance is detected, the facilities are automatically stopped. Laboratory has granulometric reports that are automatically or on demand printed.

ENVIRONMENTALLY FRIENDLY

The «service offer» that commits us to provide the best performing configuration, sustainable and reusable. TAMIssoft belongs to the tools for quality control. It avoids losses due to the non-compliance of aggregates or simply due to a degraded quality. Cost savings are performed in both the aggregates production and the customer process. TAMIssoft may be controlled through a TCP/IP connection, which helps remote operations such the monitoring, the archiving of the reports and the maintenance.

ADDITIONAL INFORMATION

A certification process is today performed by the CEREMA (Centre d'Études et d'expertise sur les Risques, l'Environnement, la Mobilité et l'Aménagement.)

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ENVIRONMENT AWARD



Stand n° 7 F 177

MS

Water treatment plant for the elimination of Chromium VI and Total Chromium



DESCRIPTION

MS has developed an innovative and single method of treatment of chromium VI and total chromium in water from concrete batching plants and applicable to field of tanneries, surface treatment. This simple new industry solution fitted into a skid is implemented with a reagent dosing without any environmental nor health risk. This innovation is based on a collective consciousness and awareness of this public health issue.

OPERATING PRINCIPLE

The reduction of chromium VI to chromium III is carried out at our competitors via the addition of sodium bisulphite or Iron 0. The advantages of the use of ascorbic acid are as follows:

- A low cost of consumables (0.5 to 1 € / m³ of treated effluent).
- A very short contact time (< 3 min) (more than 5 min for the Iron 0).
- No water pollution (sodium bisulphite releases sulfate and sulfur dioxide in water).

TECHNICAL DESIGN

That new solution which is fitted into skid, is implemented with a reagent dosing without any environmental nor health risk. With a single treatment process, only this method is adapted to the context of concrete batching plants. This innovation is based on a collective awareness, an awareness of this public health issue (skin diseases, cancer, etc.) and a change in behavior of the cement industry.

ECONOMY

Treatment usually used to treat chromium VI in water is reverse osmosis, ion exchange resins and ultrafiltration. However, these methods are not feasible for the treatment of concrete laitance because these waters have a very large amount of dissolved carbonates (> 200 g / l). This concentration will seal resins, membranes (reverse osmosis) and filters (ultrafiltration).

OPERATION

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- A low cost of consumables (0.5 to 1 € / m³ of treated effluent).
- A very short contact time (< 3 min) (more than 5 min for the Iron 0).
- No water pollution (sodium bisulphite releases sulfate and sulfur dioxide in water).

USE

The whole plant is fitted into a 20' or 40' container, which is pre-assembled and pre-wired in our workshop, ensuring a fast and easy installation and commissioning on site.

ENVIRONMENTALLY FRIENDLY

The use of ascorbic acid to reduce chromium VI in water is absolutely neutral regarding the environment. This is an organic acid having reducing and antioxidant properties. It allows reducing chromium VI (toxic) to chromium III (non-toxic) without making any additional pollution. Although the oxidation of chromium III in chromium VI is impossible in the natural environment, our method enables to trap chromium III by adsorption.

ADDITIONAL INFORMATION

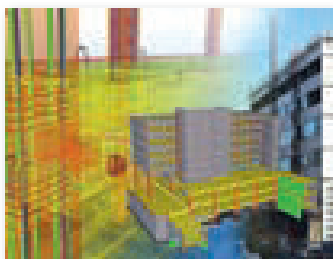
We remind that today about 2,000 concrete batching plants in France are potentially to be equipped. We know that the market potential is very strong with concrete batching plants but also with other industries which are also affected by chromium pollution (tanneries, surface treatment, etc ...) This project will enable to develop an operational and marketable installation which will require to recruit staff for conception, assembly...

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WORLD OF CONCRETE EUROPE AWARD



Stand n° 7 K 046

TEKLA

TEKLA Structures Construction Modeling



DESCRIPTION

Tekla Structures software Construction Modeling is adapted for concrete contractors. This software allows to design, estimate, manage and plan all types of projects from a 3D BIM model. Tekla software serves the 3 phases of the concrete construction: modeling, planning and pouring.

OPERATING PRINCIPLE

Tekla Structures Construction Modeling is one of the versions of Tekla Structures BIM solution. The digital model created with this software can be shared with other company departments or with partners via an export Tekla BIMsight. Collaborative work during the early preconstruction stage significantly reduces errors and material waste on site.

TECHNICAL DESIGN

Tekla Structures Construction Modeling, 3D modeling tool works with MS Windows. Tekla Structures is a BIM tool certified IFC 2X3. As it allows the architecture model importation it avoids rework.

ECONOMY

Tekla Structures Construction Modeling incorporates a Gantt chart interfaced with MS PROJECT and PRIMAVERA. Thus, the 3D model is linked to the planning, automatic estimation of task duration is accurate. The accurate estimation increases productivity. Finally, the model can be used at 100% during design and site management. The 3D model generates fabrication, formwork and reinforcement orders.

OPERATION

Tekla Structures Construction Modeling is one of the versions of Tekla Structures BIM solution. The digital model created with this software can be shared with other company departments or with partners via an export Tekla BIMsight. Collaborative work during the early preconstruction stage significantly reduces errors and material waste on site.

USE

Tekla Structures provides an intuitive 3D modeler, easy and fast Learning. Tekla is a Windows certified software. The Open API available in Tekla Structures enables interfacing with other softwares (ERP, PLM). Tekla Structures has different configurations to match different needs of customers, 30 environments and 14 user interface languages. A multi-user mode allows to collaborate in real time.

ENVIRONMENTALLY FRIENDLY

BIM concept fully integrate the spirit of sustainable construction. Indeed, one goal of BIM is to reduce material waste and pollution. The digital model is interfaced with PLM suites that optimizes material. Effective fabrication and erection planning optimize transportation, reduce storage areas on site and nuisance.

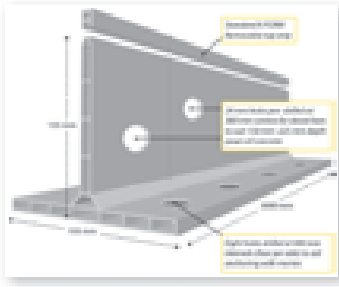
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JUDGES' SPECIAL



Stand n° 7 K 028

BRIDGEND EXTRUSION LTD

K-Form



DESCRIPTION

The K-Form Concrete Formwork System offers a revolutionary and innovative shuttering product that saves the building contractor time and money with less labour. The K-Form plastic shuttering system made from 100% recycled PVC is a light weight, cast in place screed rail strong enough to handle all types of mechanical screeds as well as providing control, construction and isolation joints. Straight quality joints every time while being versatile for all types of concrete forms.

OPERATING PRINCIPLE

Kform allows unskilled labour to place the formwork in position and still achieve high quality concrete floors. Its design allows for the placement to be very accurate in terms of height resulting in super flat floors and its removable top strip achieves clean dry sealant lines.

TECHNICAL DESIGN

The design of Kform combines simplicity of production to give lower costs of the finished product combined with structural strength. The hollow construction allows for the Kform to be strong enough to withstand the lateral forces of wet concrete but to be deformable against the pressures of expanding cured concrete to form and expansion and contraction joint.

ECONOMY

Kform allows for the continuous pouring of adjacent bays of concrete which dramatically reduces labour costs. It also removes the need for expansion joint fillers and saw cutting to the joint to seal the joint. Overall, a cost saving of 30% in the production of a 150mm deep concrete slab is easily achievable.

OPERATION

Kform allows unskilled labour to place the formwork in position and still achieve high quality concrete floors. Its design allows for the placement to be very accurate in terms of height resulting in super flat floors and its removable top strip achieves clean dry sealant lines.

USE

Kform being made of recycled PVC is very light and in 150mm height weighs only 3.9Kg per 3 metre length against 3 metres of steel road form which weighs in excess of 30 Kg. This is a huge benefit for manual handling. Also, as Kform is non-conductive of electricity and does not require steel stakes to be driven into the ground, it removes the risk of electrocution to people working on the formwork.

ENVIRONMENTALLY FRIENDLY

Kform is produced from landfill diverted PVC windows that are recycled and turned into screed rails. The saving to the environment from this point is massive and we have very good green credentials from this point.

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THE NOMINEES

EXPERTISE – INNOVATION – NETWORKING

INTER  AT
Innovation Awards
2015

CONSTRUCTION EQUIPMENT

Press contact

MAXICARGO

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MAXICARGO

Maxicargo

Maxicargo is a professional, ultra-compact, 3,5 ton trailer with an axial guiding system. It optimizes the concept of conventional trailer in order to benefit from its payload in an ultra-compact form. By optimizing the commercial vehicle Maximum Authorized Mass of 7 tons, the concept offers up to 3 tons of payload, spread off between the vehicle and the trailer. It is the ideal solution to put an end to overloading ! Profitability and safety are outstanding!

Stand n° Ext 6 A 022

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MONTABERT S.A.

Antisismic Hydraulic Rock Breaker

Our customers may have to work close to installations (ex : railroads) or buildings (ex : churches) which can suffer from vibrations. We will create an electronic monitoring device, which will adjust the hydraulic breaker blow energy, according to these delicate structures requirements.

Stand n° 5b J 025

Press contact

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OUTINORD

Universal structure balcony

Device adaptable to safety platforms PTE. This device does not prevent a normal use and storage of the equipment. This system can be converted into a PTE (Working Platform Cantilevered) to a table form and thus to pour the balconies safely.

Stand n° 7 H 083

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SATECO

Take Off

The « TAKE OFF » prop is a telescopic supporting prop, allowing a 3 tons load, used to shutter, concrete and unshutter concrete slabs in ergonomics way avoiding risk of falling and offering rapid operating time whatever the height of the slab to be built.

Stand n° 7 J 055

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SCHAEFER TECHNIC

Blow-Patcher

The Blow-Patcher is a plant unit of asphalt projected bitumen emulsion. It treats a very large panel of degradations in 2 and 3 dimensions on weak up to high traffic. The projected bituminous asphalt mix transforms urgent repairs into durable repairs before the implementation of thin layers.

Stand n° 5a E 150

SOILMEC

Multifunctional kinematic for tie-back and vertical rotated drilling

Kinematic mechanism for micropile rigs that allows a single machine to reach all the work configurations: vertical drilling with tilted boom; vertical drilling with the mast laterally rotated by 90° with respect to the boom; frontal anchoring; anchoring with the mast in transverse condition, inclined with respect to the horizontal and with the rotary upside or with the rotary overhanging frontally from the mast.

Stand n° 5b C 042

TECHMI - BRUNONE INNOVATION

Half buried belt conveyor

The half-buried belt conveyor feeds a cement plant located 6 km from the point of extraction in perfect coexistence with wildlife, flora and urban areas. The concept of half buried belt conveyor enabled the customer to obtain planning permission from the towns crossed, which would have been very difficult with a conventional belt conveyor due to problems of dimensions and risks associated with its use.

Stand n° 7 F 119

WACKER NEUSON GROUP

Battery powered rammers as 30 and as 50

With the battery-powered rammers AS 30 and AS 50 Wacker Neuson is the first manufacturer to offer an intelligent alternative to conventional gas or diesel models. A battery and an electric engine drive the rammers, thus, no exhaust emissions occur during the use; this protects the operator's health and the environment. The battery-powered rammers can fully display their strengths in trench applications or in buildings. An easy handling and low operating and energy costs are extra advantages.

Stand n° Ext 5 E 004

EQUIPEMENT & COMPONENTS

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BATIROC PROTECT

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**BATIROC PROTECT
MAC PROTECT®**

MAC PROTECT® is a peripheral protection system which secures façades during the masonry work. It is the result of a joint venture with companies in the Vinci Construction Group, aiming at designing a quality protection for masonry, the strength of which would not be dependent on a friable material, like the contact protections grouted on bricks that have just been laid. Mac Protect is compliant with the NF EN 13 374 standard.

Stand n° 7 J 083

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**ENGCON
ENGCON DC2**

DC2 is the safest control system for tiltrotators on the market. DC2 controls the tiltrotator stepless 0-100% and can handle wheel/track steering and if its exist, the variable boom on the excavators.

Stand n° Ext 2 Paris Demo G06 - n° 6 D 003

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**SATECO
Inclinometer**

SATECO proposes to its customers a safety equipment to check the verticality adjustment of the panel to formwork concrete walls. The inclinometer is to be positioned on the panel with a magnet and will provide the information to the users such as the slope of the material.

Stand n° 7 J 055

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**SOILMEC
Revolving and openable auger cleaner
for CFA**

It is known that in the CFA technology during the casting phase the auger is coming out full of spoil and for safety reasons it is necessary to clean it to avoid debris and soil to fall from above. The most common and effective cleaners are the rotating auger cleaners but they have the problem that they limit the depth achievable by the rig. The product object of this invention is a rotating auger cleaner able to open itself allowing the rig to reach the maximum depth.

Stand n° 5b C 042

ENGINEERING & SYSTEMS

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DANA HOLDING CORPORATION

Spicer® PowerBoost®

The Spicer PowerBoost hydraulic-hybrid system is a new integrated drivetrain concept for the off-highway market that saves fuel, increases productivity, and supports the use of a downsized engine by capturing kinetic energy otherwise wasted throughout the drivetrain and then using this recuperated energy to help power the vehicle. Spicer PowerBoost solutions are ideal for applications with frequent, intense bursts of acceleration, deceleration, lifting, and lowering during cyclic maneuvering.

Stand n° 5a K 064

LIEBHERR FRANCE SAS

Variobase: Variable crane supporting

Liebherr has developed a unique new system called VarioBase® with each every individual crane support can be extended to any length and the crane operation is then made safe by the load moment limiter within the LICCON controller.

Stand n° Ext 6 E 035

MANITOU GROUP

Stop & Go

The all-new hydraulic «Stop and Start» system for telehandlers.

Stand n° 5b F 015

SOILMEC

Integrated Decanter Centrifuge (IDC)

The Integrated Decanter Centrifuge (IDC) is a developed device fully integrated able to process high-density mud taken at several points of the drilling mud treatment plant (for example in hydromill applications). IDC allows to improve the treatment performance and to extend the average life of the mud used for the panel excavation. In addition IDC allows to monitor the parameters for correcting the mud properties adding specific additives.

Stand n° 5b C 042

DIGITAL APPLICATIONS

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IRIUM SOFTWARE GROUP iWEB Client

iWEB Client will transform customer relationships of construction machinery and material handling equipment dealers. Our solution is a website (connected to the dealer's ERP) that provides the end-customer of the dealer (contractors of public works, construction companies, etc.) with key information about his machine fleet. The objective is to allow dealers to improve their customer satisfaction by offering for the first time to their clients an after-sale follow-up of their fleet in the Cloud.

Stand n° 5a J 098