



EVERYTHING READY FOR THE BAUMA 2016 EXHIBITION IN MUNICH, IHIMER AND PARENT COMPANY IHI, UNDISPUTED TOP PLAYERS IN THE EUROPEAN MARKET

Munich, 11 April 2016 - IHIMER (a company specializing in the production and marketing of mini-excavators, skid-steer loaders, mini-dumpers and tracked aerial platforms, incorporated 14 years ago through a joint venture between IHI Construction Machinery Limited, a subsidiary of the Japanese giant IHI Corporation, and the Italian IMER Group, a leading European manufacturer of construction machinery and concrete plants, following a period of business and industrial co-operation dating back to 1989), two years following the launch of the V4 series mini-excavators featuring IHI technology, prepares for a **new challenge in Munich** presented by the **31st edition of the Bauma Exhibition, to be held 11 - 17 April 2016**, the only trade show in the world that brings together the construction equipment sector in all its breadth and depth.

IHIMER and IHI - OUTDOOR STAND FN 1016/2 - are proud to present their innovations on the most important platform for the international Construction Equipment market, namely: **the 85V4 zero tail swing midi excavator, the 55N4 traditional mini excavator, the CARRY 150 dumper, the CARRY 250 dumper and the CONCEPT 3S SKID.**

With the V4 series, IHIMER has sent out an important message to the European market; these are machines that stand out from existing models on the market, introducing a new approach to design that involves replacing the closed centre Load Sensing system with a **set of three hydraulic pumps** providing total controllability and simultaneous selection of movements, fast response and high work rates, with **superior digging power and speedy operations.**

This means that the three hydraulic pumps are programmed to compensate oil flows in a balanced way when the travel and tool circuits are in use at the same time, with the facility of selecting between two modes of operation, flow rates and pressures, guaranteeing top levels of performance.

The new engines with electronic control unit are all characterized by improved fuel economy

Other features of the V4 series: a **unified layout of components** brings advantages in terms of interchangeable and uniform replacement parts, as well as highly effective and stable operation, together with top performance, guaranteed by a simplified structure.

The **newly designed cab** is larger than the previous model, ensuring greater comfort and reduced stress; significant benefits are provided by the **new instrumentation and ergonomic driving position**, with servo assisted joysticks, travel control pedals as standard, and a safety lever inhibiting all operations (including travel and blade motion), also as standard. Standard issue auxiliary hydraulic circuits can be used to operate up to three accessories independently. Great efforts have been made to **reduce the costs of servicing** V4 machines, by guaranteeing total accessibility of control and maintenance components.

Today the range of V4 series models is enhanced by the introduction of the first **85V4 zero-tail swing midi excavator** and the new **55N4 traditional mini excavator** now making their début in Europe, brought directly to Munich from the land of the Rising Sun.

85V4 ZERO TAIL SWING MIDI EXCAVATOR

The next generation 85V4 zero tail swing midi excavator featuring IHI technology has a **rated operating weight of 8.5 tonnes including cab — 8175 kg with rubber tracks** or 8225 kg with metal tracks — and stands out for its notable power and stability.

Thanks to its compact tail dimensions, the machine is able to carry out digging and loading operations in total safety, even when working tight against walls or anywhere with minimal room for manoeuvre. A slewing speed of 9 rev/min and a impressive breakout force of 55 kN combine to ensure optimum performance on any job. **The new YANMAR 4TNV98C ENGINE rated 58.1 HP/2100 rpm (42.7 kW/2100 min-1)** guarantees low noise, together with miserly fuel and oil consumption; in addition, pollutant emissions are reduced to the bare minimum, in line with current regulations on this aspect of engine performance.

The zero tail swing turret of the 85V4 is decidedly compact; a front turning radius with boom swing of 2640 mm and a rear turning radius of 1450 mm make this new midi excavator the ideal machine for operations in restricted spaces, where maximizing margins of manoeuvrability is a factor of paramount importance, especially in the case of roadworks, where precision is an essential requirement when manoeuvring on the carriageway.

With a maximum digging depth of 4020 mm using the standard arm, or 4320 mm using a long arm, and breakout force of 55.0 kN (5610 kgf), this is a machine that guarantees top-of-the-range performance; also, particular attention has been given to maintenance and accessibility of components, whilst the new rubber tracks also reduce vibration, increase durability and provide enhanced operator comfort.

55N4 TRADITIONAL MINI EXCAVATOR

The next generation 55N4 traditional mini excavator featuring IHI technology has a **rated operating weight of 5.5 tonnes including cab — 5575 kg with rubber tracks** or 5625 kg with metal tracks — and stands out for its notable power and stability whatever the operating conditions, even in critical situations or on muddy terrain.

The new YANMAR 4TNV98C-PIK ENGINE rated 64.7 HP/2400 rpm (47.6 kW/2400 min-1) guarantees low noise, together with miserly fuel and oil consumption; in addition, pollutant emissions are reduced to the bare minimum, in line with current regulations on this aspect of engine performance.

A hydraulic system with variable displacement pumps is able to deliver performance second to none for this class of machine. A breakout force of 36.3 kN at the bucket edge translates into maximum digging capability, even in particularly compacted soils. A front turning radius with boom swing of 2420 mm and a rear turning radius of 1710 mm guarantee **maximum stability in absolute safety**.

With a maximum digging depth of 3850 mm using the standard arm, or 4100 mm with a long arm, and a **breakout force of 36.3 kN** (3700 kgf), the 55N4 is especially suitable for heavy workloads where high production rates are called for.

Bauma 2016 will also be the shop-window for **two new DUMPER models** being unveiled for the first time on the international market: **CARRY 150** and **CARRY 250**, which are added to an already wide range of mini dumpers that provide the ideal solution for transporting and handling any type of material on a construction site, with loading capacities from 500 up to 2500 kg, perfect for renovation works and nursery duties.

CARRY 150 MINIDUMPER

The CARRY 150 MINIDUMPER is a tracked machine with hydrostatic transmission utilizing two independent circuits, each with a variable displacement axial piston pump and a dual displacement axial piston motor.

The **KUBOTA D902 Diesel engine, rated 20.4 HP** and generously oversized for a machine with these specifications, is located under a spacious hood that tilts open so as to allow easy and convenient access to all components of the transmission, the engine and the hydraulic system, for correct and safe maintenance. The **chassis features a modular structure** and comprises a tractor unit mounted on a frame of unified design, to which a variety of attachments can be fitted. A notably high ground clearance ensures the vehicle has no trouble negotiating dirt roads and particularly rough terrain.

Maximum **versatility** of use thanks to the many attachments available: loading skip with opening/locking hatch, operated automatically and easily removable, loading body with hydraulic lift on three sides (internal dimensions of body 1500 x 1000 x 350 mm), 180° swivel tipping bucket with dump action on three sides, lifted and turned by hydraulic power, HI-TIP bucket with scissor lift system elevating to 1.9 m, adjustable speed concrete mixer, tank for liquids.

CARRY 250 MINIDUMPER

The CARRY 250 MINIDUMPER is a tracked machine with hydrostatic transmission utilizing two independent circuits, each with a variable displacement axial piston pump and a dual displacement axial piston motor.

Kubota V2403M Diesel engine rated 45 HP / 33kW; controls entirely servo-assisted, with joysticks mounted to the armrests of a **driving seat rotatable through 180°** so that the operator can always be positioned facing the travel direction. A special electrohydraulic device ensures that the direction of the joystick lever always coincides with the travel direction, whichever way the seat is facing.

The **chassis features a modular structure** and comprises a tractor unit mounted on a frame of unified design, to which a variety of attachments can be fitted. A notably high ground clearance ensures the vehicle has no trouble negotiating dirt roads and particularly rough terrain. The safety of the operator is assured by a **forward-folding roll bar style ROPS**.

Total versatility of use thanks to the attachments available: Large capacity bucket (1.35 m³) with dump action on three sides by rotating through 180°, front dump body, interchangeable multifunction front backfill blade suitable also for levelling soil and agglomerates.

3S-SKID CONCEPT SKID-STEER LOADER

3S represents a whole new interpretation of compact construction equipment and has been developed in collaboration with the University of Pisa within the framework of the funding contract R&D 2012 promoted by the region of Tuscany. The driving force behind the 3S concept is the implementation of electronic machine management to ensure «man/machine» and «environment/machine» interactions based on the **reduction of emissions, on social and economic sustainability, on intelligent management** of a machine or of a fleet of Skid steer loaders or mini-excavators.

Hybrid power, reliability, speed, servo-assisted joystick controls and compact dimensions: these are the key features of the IHIMER 3S-SKID, ideal for working in enclosed or open spaces.

With an operating weight of 1330 kilograms, the 3S-SKID has an operating load of 330 kilograms and a delivers a breakout force of 750 kgf.

This skid-steer loader is equipped with a hybrid power generation system. Power is stored in a lithium ferro phosphate battery pack (Li-Fe-P04) 90 Ah 86 V, which provides a range of 2 hours (Ihimer standard cycle) and the auxiliary power unit is the on-board 7 kW Worms Expert 7510X.

The 3S-SKID can be equipped with a range of useful accessories for work in enclosed spaces or open sites: snow plough blade, pallet fork, sweeper with bucket.

There are four operating modes: electrical, hybrid-endothermic, hybrid-mains electrical power, 7 kW site generator set.

The machine can be recharged from the mains power supply via a 16A 220-230V 3kW power socket, or by the on-board generator. The **battery** is housed under the rear hatch and is completely **removable**.

The **four independent wheels** are electronically controlled, ensuring the ability for counter rotation about each wheel, with an intelligent drive control system that manages power delivery according to the actual demand. The hydraulic pump unit has been replaced, as have the drive chains, increasing the ground clearance by 2.5 cm with obvious benefits as regards the machine's ability to travel over obstacles. During the development of the 3S system, special attention was given to ensuring a high level of protection for components against the penetration of liquids in operating conditions.

Among the main constructional features adopted to ensure maximum operator comfort and driveability are: electric joysticks, adjustable seat, sequential safety sensor (the machine will only start after sensing that the operator is seated in the driving seat and has correctly fastened the seat belt), connection of the machine in WEBSERVER, user recognition badge.

Close attention is also given to after-sales service, with a wireless diagnostics system that can be interrogated using devices such as tablets, laptops or smartphones.

3S-SKID can also be operated using a remote control capable of managing all the functions of the machine, without compromising manoeuvring speed, fluidity or precision.

3S-SKID can be equipped with a GPS tracker, a clearly useful function for hire fleet management.

We are pleased to announce the share link <http://youtu.be/r1ey55ZXRCI> to the official IHIMER Youtube channel, where the 3S-SKID presentation video can be found.

IHIMER was incorporated in 2002 through a joint venture agreement between **IHI Construction Machinery Limited**, a subsidiary of the Japanese giant IHI Corporation, and the Italian **IMER Group**, leading European manufacturer of concrete plants and construction machinery, following a period of business and industrial co-operation dating back to 1989.

Inspired by the principle of "contributing to the development of society through technology" the **IHI Corporation** was founded more than 150 years ago in **1853**. It is a leading company at international level in a vast range of sectors, including energy, space exploration, jet engines, environmental and civil protection, materials handling equipment, construction of steel bridges and other structures, construction machinery, industrial machinery, semi-conductors, equipment for LCD screens, shipbuilding and port equipment.

The IHIMER plant in San Gimignano in the province of Siena has a workforce of 63 employees and covers a surface area of more than 36 thousand square metres. The company's ongoing search for innovative solutions combined with its in-house design activities allow it to offer cutting-edge machinery perfectly tailored to the requirements of the market. IHIMER's production capacity can satisfy all specific needs, thanks to the firm's ability to supply customisations and modifications on the basis of customer specifications. This is the outcome of massive expenditure in R&D (which has made it possible to maximise the quality levels and innovative content of IHIMER machines), the commitment to achieve the highest levels of efficiency while keeping tight control over costs, and the attention focused on creating a widespread European distribution network. **IHIMER products are marketed through a network of more than 100 distributors and dealers, providing uniform coverage across all the main European countries. A worldwide distribution network is already in place for skid-steer loaders, access platforms and mini dumpers.**

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