

Developments in attachments have continued despite the economic downturn. **STEVE SKINNER** reports on the greater choice of higher performing tools that are now available to contractors.

# Tool order

**FRD's 1,6 tonne VP15 FT primary crusher attachment for use on carriers of between 15 and 20 tonnes has a crushing force at the front of 54 tonnes and a cutting force of 180 tonnes.**

**WHILE ATTACHMENT MANUFACTURERS ARE** optimising their products to be more powerful and offer greater performance, they are also developing new concepts and designs to extend the working capabilities of excavators and other carriers.

Atlas Copco's product line manager of silent demolition tools, Wolfgang Hohn told *CE* that in addition to its new CC6000 and CC650 CombiCutter tools launched at Bauma, the company will introduce a further two new models this year.

The CC300 and CC350 will replace the CC250 and the CC4500 and will fill the gap between the CC3300 and the CC6000. Once product development is complete Atlas Copco will have an eight strong range of CombiCutters that will serve excavators from 2 to 85 tonnes.

**MB Crusher's Universal Quick Coupling is available in seven versions. The lightweight coupler improves the pick-up geometry by reducing the distance between the excavator arm and the attachment.**



**Sandvik's 3,3 tonne BR4099 hydraulic breaker is designed for carriers in the 27 to 60 tonne range. Improved hydraulic efficiency enables the new breaker to deliver increased impact energy and a high blow frequency.**

Despite the difficult market conditions, Atlas Copco has maintained its commitment to research and development. "We are aiming to provide more power from our tools. Our medium and large CombiCutters are currently available with shear and universal jaw sets, but we are looking to provide more performance with a new jaw set, ►



Atlas Copco's CC 6000 hydraulic CombiCutter weighs 6,5 tonnes and is designed for carriers in the 58 to 85 tonne class. The new cutter has a crushing force at the front of 180 tonnes and a cutting force of 650 tonnes.



Atlas Copco's Contilube II Micro system is an automatic lubrication system for hydraulic breakers weighing less than 500 kg. Fitted to the adapter plate of the breaker, it offers optimum protection while minimising consumption of lubricating chisel paste.

the B version or box jaw," said Mr Hohn.

Another advantage of the new jaw set is that it creates much less dust than a normal pulveriser. "Dust is something that we are trying hard to minimise with our tools," he added.

In addition to the CombiCutter range, Atlas Copco also offers the Multi Grapple line of attachments, which was refined and updated during 2009. Mr Hohn told CE, "We are now developing a new line of pulverisers for primary and secondary demolition that offer higher performance. This sector is extremely specialised and end users appear to have varying requirements. We hope to have the first two units ready by spring 2011."

Sales manager at LaBounty Europe Heinz Groppe said that over recent months the company has found that its customers have been demanding either small or large tools almost to the exclusion of mid sized units.

Mr Hohn believes there are two distinct types of contractor when it comes to attachment sales.



Featuring basic, strong and heavy duty frames, Allu's D-series has interchangeable blades enabling the bucket to both crush and screen, producing an end product of between 0 and 15 mm or 0 and 25 mm.

"The first group needs cutters from time to time and only for small parts of their projects. These customers look into the investment cost first and sometimes do not even consider operating costs.

"Other customers are looking into long-term productivity and know the performance of a

## Demarec expands range

DEMAREC USED BAUMA TO INTRODUCE ITS DDL ROTATING MULTITOOLS, WHICH HAVE been developed for both primary and secondary demolition applications.

Three models make up the range, with the DDL 25, DDL 40 and DDL 45 weighing in at 1640 kg, 2400 kg and 2950 kg respectively.

Available with combi shear, demolition shear and pulveriser jaw sets, they are suitable for use on carriers weighing from 18 to 50 tonnes.

The new multitools were joined on the stand by the new DRS-75 dedicated shear that weighs 6900 kg and is intended for use on carriers weighing from 35 to 60 tonnes when boom mounted and 60 to 80 tonnes when dipper mounted. The new shear has been designed for use in a number of applications in both demolition and scrap processing.



# VTN Europe to make MB crusher buckets

**ITALY'S MB, A MANUFACTURER OF** crusher buckets, has granted a manufacturing licence to VTN Europe to allow it to produce crusher buckets featuring MB's patented designs.

VTN Europe, based in Pojana Maggiore in Italy will produce and market MB's crusher buckets under its own brand as the two companies aim to develop their cooperation. "VTN Europe is worthy of being granted this patent, which lays the foundations for developing synergies aimed at the future promotion of products across our respective markets," said Guido Azzolin, managing director of MB.

President of VTN Europe, Nerio Vaccaro said, "I am certain the cooperation with MB will bring about mutual benefits and help stimulate further improvements in our equipment."



**Montabert's CRB751 crusher bucket weighs 3,5 tonnes and is suited to carriers of between 24 and 34 tonnes. Requiring only one-way auxiliary hydraulics to operate, the bucket can be adjusted to produce different sizes of material.**

CombiCutter can influence their business success. Here, the cutter plays a decisive role in the whole working process of the customer," he said.

## DYNAMICS

Italian attachment specialist Mantovanibenne has been in the dedicated attachment business for many years, and was among the first to produce specialist demolition attachments. It has experienced the same challenging market conditions in recent months as all other attachment manufacturers. According to export manager Christophe Jarrin, this has resulted in the company seeing a distinct change in the market dynamics.

He told *CE*, "Today, our customers are looking towards making their equipment last as long as possible, so they are carrying out more maintenance and refurbishment and the demand for spare parts has grown as a result.

"We do however see an increasing demand for larger attachments over 2,5 tonnes as contractors

go for the larger carrier classes, especially in Eastern Europe. In Western Europe the need for smaller attachments for compact and ultra-compact machines is also growing," he said.

Mantovanibenne has covered both ends of the spectrum with new product launches. On show at Bauma was its new crusher, the 8,2 tonne CR80R intended for carriers in the 70 to 90 tonne range, as well as what it calls the Micro Machine Line. This consists of small multisystem (MS) tools and the MCP line of smaller pulverisers.

Mantovanibenne offers the world's largest jaw opening Multitool in the shape of its MS130R that weighs in at 14 tonnes but the company has no plans to go bigger. According to Mr Jarrin, "We have reached a form of natural limit with this tool. To go bigger would require a carrier of such weight that transport would become an issue."

One area that Mantovanibenne is addressing is a demand for more power from tools of the same weight. Mr Jarrin said, "There is a new generation of hydraulic cylinder coming. In our shear line for



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## ATTACHMENTS



The Excadrill 38A can be mounted on excavators of 20 tonnes or more and operated as a heavy duty drill for road construction, anchor drilling, bolting or horizontal drilling. The company was acquired by Junttan in May.

instance, we will gain between +20 to +30% in power with no increase in weight.

"The SH900 we will be lighter than the SH1000 yet more powerful. Likewise, the CR80 crusher introduced at Bauma offers almost the same force at the tip as our existing CR100," he said.

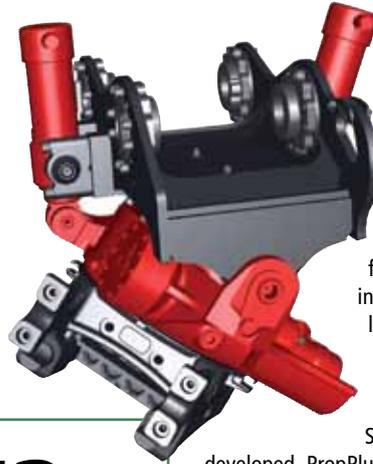
Indeco meanwhile stepped into a new sector with the launch of its ISS scrap shears. The model on display at Bauma was the ISS 44/60, a product designation that illustrates it can be mounted on excavators in two different ways.

The shear can be mounted direct to an excavator boom in place of the stick on machines weighing 44 tonnes or more. Alternatively, it can be mounted in the more conventional manner on the end of the stick, but this will require an excavator weighing at least 60 tonnes.

The unit itself weighs 6,65 tonnes without a mounting bracket and offers a jaw opening of 860 mm. The maximum clamping force is 850 tonnes and the shear requires an oil flow of 400 l/min.

Indeco says this first model was designed for the US market, where there is a preference for larger attachments. However, it plans to launch additions to the ISS line in future.

**Indexator's Rototilt attachments are now available in Scandinavia with a fully automated OilQuick developed quick coupling.**



Bobcat offers a range of attachments for its compact loaders, mini-excavators and telehandlers. Launches this year included a TR05 Tilt-rotator for use on the company's E32 and E35 excavators, a hoist and jib for converting its telehandlers into cranes with a 24 m drop length and a four strong family of skeleton buckets suitable for both compact loaders and the T2250 telehandler.

Sweden's Indexator has developed PropPlus Direct, an optional control system that makes it possible to control both the direction of the carrier and the movements of the Rototilt attachment with a single joystick.

"Via its own roller on the joystick, PropPlus Direct enables an operator to work quicker and with greater accuracy. There's no need to switch between the joystick and the steering wheel when changing direction, which leads to a much more sensitive driving experience," said a spokesman.

# Bauma bonanza

### CATERPILLAR WORK TOOLS UNVEILED

a number of new attachments at Bauma. Three models make up the new P200 series of pulverisers, the 1683 kg P215 for 15 to 25 tonne carriers, the 2480 kg P225 for carriers weighing from 25 to 35 tonnes and the 3421 kg P235 for 35 to 60 tonne carriers. According to the company, they have been tailored for secondary demolition use, as well as the preparation of concrete for crushing. They offer wide jaws with pick-up tips, large openings, reversible cutting edges and fast cycle times for optimal performance.

The company also showed off its new improved MP series multi-processors, which now offer up to six different jaw sets for each of the four models that make up the range. Improvements include 20 different modifications to the housing, such as a new cover design that provides easier access, a new protection cover for the cylinder rod and an improved lock nut design. Cat Work Tools has also added a new S jaw that is designed to provide better cutting and size reduction of metal. It features a piercing tip and wear blade in the upper jaw and the lower jaw features a cross blade with additional guiding blades.

Also on show was the new D series bucket line for the 374D excavator model and the new Center-Lock Pin Grabber coupler. The latter has been designed for use on Cat hydraulic excavators from the 311 through 345 models. It uses a patented over-center locking mechanism and two hydraulic locking elements to ensure positive work tool attachment.



**JCB's doubling locking quickhitch features independent locking of the front and rear pins and uses the same control circuit as the company's earlier BUG coupler so that it's fully interchangeable.**



Bobcat's hydraulic hoist and extension jib attachments enable the company's telehandlers to perform the functions of a crane with a 4 m jib and a drop length of 24 m.

### REVOLUTION

In what FRD claims to be a revolutionary development in breaker technology, the company has unveiled its Xcentric Ripper designed in conjunction with Spanish engineering company Grado Cero.

A spokesperson said, "During the past 50 years all manufacturers have tried to make hydraulic hammers more efficient, more productive and less noisy. Now with European outdoor noise and vibration directives becoming ever more severe it is getting more complicated and expensive to design and manufacture compliant hammers, and so we looked at alternative methods for rock excavation and demolition."

The Xcentric Ripper is equipped with what FRD calls reaction power accumulation technology, which in 85% of applications makes it more productive than a hydraulic breaker. The closed energy chamber is protected against dust, water and dirt, which the spokesperson said makes it the ideal attachment for working in tunnels and foundations or in muddy and wet environments.

FRD unveiled three units at Bauma with the XR 6 GO suited to carriers of between 5 and 9 tonnes. The XR 25 GO is designed for carriers in the 19 to 25 tonne range, while the XR 35 GO is for excavators of between 30 and 39 tonnes. The range will eventually comprise ten units to suit excavators from 2 to 85 tonnes.

### OPTIMISATION

As manufacturers concentrate on product development, the attachments available for contractors will become quieter, more productive, more efficient and quicker and easier to use.

As Mr Jarrin told *CE*, "Today it is all about optimising tools so they are lighter but offer greater power." **ce**



FRD's Xcentric Ripper series offers a productive alternative to hydraulic breakers. The closed energy chamber minimises maintenance costs, reduces vibration for the carrier and operator and cuts noise.

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