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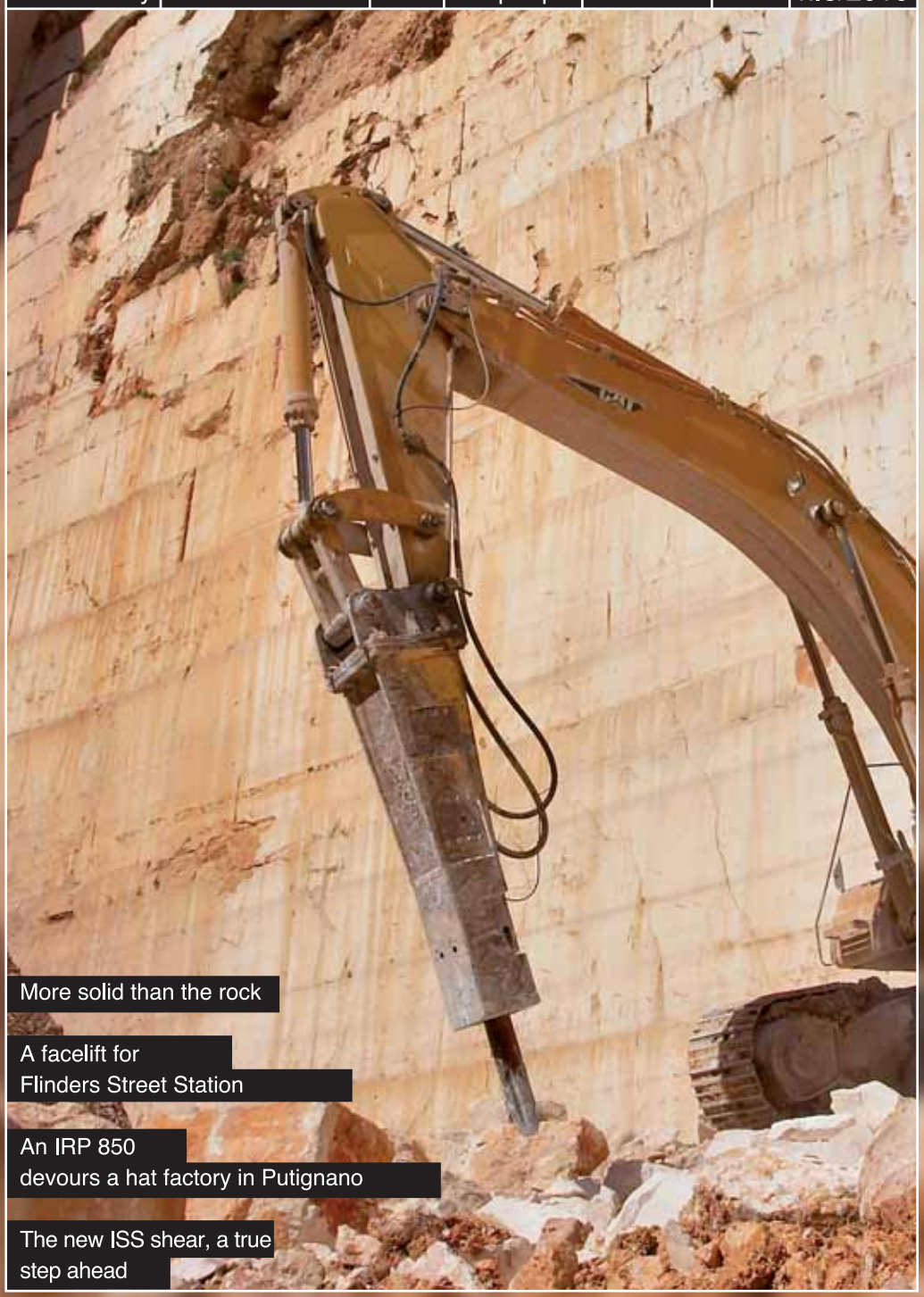
case history | around the world | news | our people | trade fairs | n.8/2010



More solid than the rock

A facelift for
Flinders Street Station

An IRP 850
devours a hat factory in Putignano

The new ISS shear, a true
step ahead

FRONT COVER
The Indeco breaker at work in a marble quarry near Apricena, Foggia province, Italy, photos by ART snc di Antonio e Roberto Tartaglione

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ACKNOWLEDGEMENTS
for the article and photos: “More solid than the rock” on p.1, Cristiano Pinotti, journalist, and Macchine Edili magazine, published by Tecniche Nuove

for the articles and photos: “A facelift for Flinders Street Station”, “Australia: the new ABF technology passes its practical test with flying colours”, “Indeco on the runway for the development of Melbourne Airport” on pp. 4, 5 & 6 Stephen Morris, Indeco Australia PTY. Ltd, 1 Burgess Street 3025 Altona North, Victoria, Australia

for the article and photo: “HP 2500 a tireless worker in the mines of India” on p.. 8, Abhay Kasbekar, Director DCS Trading & Services Pvt Ltd, Hyderabad - 500096, Indeco dealer in India

for the article and photos: “An IFP 1250 and an HP 4000 at work in Poland” on p. 9, Adam Mikołajczak, Product Manager, Grausch&Grausch Maszyny Budowlane sp z o.o. ul. Obornicka 1, 62-002 Złotkowo, Indeco dealer in Poland

for the article and photo: “An IRP 850 devours a hat factory in Putignano” on p. 10, Massimo Ruta, Indeco sales office and Fratelli Pugliese snc, via Vecchia per Gioia, Z.I. - 70017 Putignano (BA) Italy

for the article and photos: “An HP 9000 extracts white marble in Spain” on p. 13, Sylvie Lafleur, Sehapla, S.L. Pol. Ind. Garrachico C/ Garrachico, 14 03112 Alicante, Indeco dealer in Spain

for the photo on the back cover, Ryan Murphy, Marketing Director, Indeco North America 135 Research Drive Milford CT, 06460

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editorial

Bauma: a trade fair that is “full of beans”

How’s business? Just ask the beans. According to recent economic surveys, sales of some “inferior goods”, such as tinned beans, tend to increase as consumer income diminishes, and we saw this happen from November 2008 onwards. In 2010, the irresistible rise of the humble bean seems to have come to a halt. This sign justifies the quiet optimism that reigns as we look forward to Munich’s Bauma fair. This has always been the number one date on the calendar for firms in our business and an excellent antidote to the economic crisis, an event that is very much still state-of-the-art, growing in importance in the age of the internet, one which provides all of the leading players on the market - building firms, dealers, importers, potential clients, journalists and stakeholders - with the chance to share content, get networking and start up some rewarding conversations. To mark this important occasion, as well as offering our usual outstanding hospitality, our aim is to sit down with our partners to define a common growth programme now that the economy is gradually getting back on track. In the meantime, as promised, we have made the most of the enforced break to make a series of innovations for the current product range, creating new models and optimising our organisation (without even laying off any staff, unlike so many other firms). Also, together with a group of leading Italian manufacturers (Fiori, Ihimer and Simex) and two world leaders in the sector, i.e. Komatsu Utility Europe and New Holland Kobelco, we have set up a new trade association, known as UNACEA (National Union of Construction Equipment & Attachments Firms) whose strategic objectives are as follows: entrepreneurial unity and leadership, creation of synergies and agreements on technical issues, on internationalization, on promotions and trade fairs, and on improvements to the production sector and to the great heritage of the attachment industry. This is one initiative we are sure will lead on to great things, as we wait for the beans to do their job.

Michele Vitulano
Marketing Manager

case history

More solid than the rock

The location is breathtaking: on the SS39 Aprica highway on the southern slopes of the Alps - this year’s harsh winter weather and the late spring combine to make this an even tougher assignment than expected.

The site we are visiting today is run by Accisa SpA, based in the Lombard town of Dalebio, near Sondrio, in northern Italy. Two tunnels are being built (400 and 200 metres long, respectively) along the state highway between Edolo and Tresenda. An engineer by trade, now technical director and site manager for Accisa SpA, Massimiliano Duca explains that this is an improvement to the road. The road used to narrow as it approached some bends, preventing two trucks from passing each other in opposite directions - whereas under the new plans, the road will be widened, enabling the traffic to flow much more smoothly. ▸

A tough site

The Edolo site - close to San Sebastiano named after St. Sebastian's church perched right above the tunnel - has involved considerable external earthworks (more than 4000 m^3) almost exclusively carried out by an Indeco HP 5000 hydraulic breaker. This was a particularly tough task due to the nature of the rock which responds poorly to blows from a breaker. Indeed, it is obvious to the onlooker that the breaker tool penetrates very easily but, despite this, production is poor.
This type of rock produces no bad side effects for the tool, but rather the whole structure of the breaker is subject to considerable stress. The equipment should be used to shatter and not to rip, but here the tool simply cuts all the way through the rock, forcing the operator to use leverage to break the rock. This is an improper use of the breaker, but we have no real choice - so if a piece of equipment can withstand stress of such magnitude, then that means it really is solid. As far as the tunneling work is concerned, at the time of our visit, the first twenty metres are so had been dug - the men from Accisa are going ahead with a combined operation of perforation (using the Jumbo) and explosives. Once the explosives have done their job, it's time for the chisel-finish, followed by boulder clearance using the Indeco breaker. During this phase, we can eat away into the rockface another half a metre beyond where the drill got to, ▸

and working manually with the breaker gives the rock a good profile, enabling hazardous boulders to be removed, and creating the right safety conditions for mounting the steel ribs. The reliability of a breaker in such a situation is therefore fundamental: if it broke, it would affect both the tunnelling work, and the laying of the new road surface. But on the SS39 site, the only problems they have come across so far have been due solely to the freezing cold, which reduces the efficiency

of the automatic greasing system, which is obviously badly affected by low temperatures. This was a problem until the tunnelling work began, but now that the breaker can be kept "indoors", that is no longer an issue.

Machinery at work

Forepoling for the job began in early February, whereas the whole job (including both tunnels) should be completed by the end of 2010, with the Edolo tunnel being ready by the end of the summer.
Ten people are at work on the site, using the various equipment present:
a New Holland 385 excavator equipped with an Indeco HP 5000, a hydraulic jumbo drill, a Caterpillar loader, two Perlini rigid dump trucks, a Manitou telehandler as well as forklift trucks, a shuttle and a steel rib handler, several generators and a Cifa shotcrete pump. Accisa have a true vocation for tunnelling - indeed, the company was founded in 2005 following the acquisition of a branch of Cetti SpA, and specialises almost exclusively in road and rail tunnelling, together with occasional consolidations and various types of roadworks apart from paving. They carry out these tasks in a vast area covering the whole of central and northern Italy. The firm employs over thirty people, including technical planning staff for new projects.
"Our experience with Indeco breakers," explains Massimiliano Duca - began at the Firenzuola site (a tunnel dug using just breakers and no explosives), for which we rented from Maie in Ravenna two excavators, each equipped with an HP 5000, one of which we then bought. And today our fleet contains two HP 5000's, a choice which reflects the excellent performance provided by this equipment and by the advantages of greater spare part availability and better assistance, as well as a couple of smaller outdated Indeco breakers". ■

around the world australia

A facelift for Flinders Street Station

A fleet of Indeco breakers demolish the old structures outside Melbourne's historic monument in record time.

Flinders Street Station is among Australia's and Melbourne's most recognisable landmarks. The terminus was the first city railway station on the continent and is surely the best-known. Over the years, Flinders Street Station has emerged as a symbol of Victoria's capital city and is an institution in the daily routine of nearly a quarter of a million people. So it is easy to imagine why the reconstruction of dual tram tracks on the corners of Flinders and Swanston Streets was always going to be difficult. This project required the closure of Melbourne's busiest intersection to enable the replacement of old tram tracks, as well as laying new electrical conduits and tarmac.
The job needed to be done fast to ensure the safety and reliability of Melbourne's train and tram network system that carries millions of commuters annually in Australia's second biggest city.
Coleman Rail, the main contractor for the job, was formed in 2002 to undertake construction and maintenance contracting in light rail and related activities in Australia, South East Asia and New Zealand. Due to the strict guidelines for Melbourne's tram system, reconstruction deadlines were extremely tight, and substantial fines were to be imposed if the project was not completed on time. For this reason, seven different contractors - each with their own excavator - were employed to get the job done as fast as possible.
When they turned up, each one was equipped with an Indeco hammer for breaking up the road and tracks.
Casabene Excavations and Drainage, one of the major sub-contractors employed, are also one of the largest Indeco customers in Australia, with a fleet of 23 Indeco breakers, ranging from the small HP 150 up to the HP 7000 for deep trenching projects.
Pip Casabene formed a relationship with Indeco Australia in 1995 and has complemented his excavator fleet with Indeco breakers for excavation work in Melbourne ever since. Indeco was the common thread which made this job such a success. The work was completed on time, meeting the stringent deadline to complete one of the most vital infrastructure projects the city of Melbourne has seen in recent years. ■

Top right, Flinders Street Station

Australia: the new ABF technology passes its practical test with flying colours

Elfie's Plant Hire owner David Alford has been contracted by BORAL for approximately 10 years for secondary breaking requirements at their Colac Quarry. Here they use two Indeco Whisper breakers, an HP 5000 and an HP 9000, on which David has been testing the new ABF (Anti-Blank Firing) system and range of retaining axles in secondary breaking applications. "The introduction of the ABF system has been a huge development" claim Elfie. "I have always been happy with the productivity and power of my Indeco breakers, but the ABF has without a doubt helped improve the reliability and wear and tear.
The ABF system prevents the breaker ▸

from blank firing once it has broken through the rock, a problem which in the long run has a negative effect on the life of the breaker and the excavator boom".
Thanks to the new ABF technology, they have noticed that maintenance of the breakers has been significantly reduced.
"The improvements which Indeco have carried out have actually increased my productivity and have enabled me to maximise the breaker to its full potential" said Alford. Indeco have also developed new improved retaining axles for increased longevity and reliability, with the right combination of metal and heat treatments, thus reducing maintenance costs and downtimes even further.
"Anything that saves me time or can help with the maintenance of my breaker has to be a good thing" says Alford with a satisfied smile.
We couldn't agree more. ■

Indeco on the runway for the development of Melbourne Airport

around
the world
australia

The large HP breakers and an IFP pulveriser work round the clock to make room for the giants of the air.

The double-decker Airbus A380 is one of the world's largest passenger aircraft.
Due to its introduction, the runways have had to be widened at many airports around the world. One of these is Melbourne's Tullamarine Airport, which has already started implementing its five-year expansion plan to upgrade its airstrips and terminals, which has an overall budget of 550 million Australian dollars.
As well as widening the runways from 45 to 60 metres, accompanying work is being carried out on the tarmac, taxiways and parking spaces for the aircraft, as well as a major expansion of terminal buildings to cope with increased traffic.
Armstrong Construction was one of the contractors employed for the removal and replacement of the tarmac.
A civil engineering contractor since 1975, Armstrong's specialise in pipeline works - sewer, water, drainage and gas - working for major public and private clients.
For the tarmac- and rock-breaking jobs, and to make room for the new structures, Armstrong's quickly put their Indeco HP 9000's to work, soon adding an HP 12000.
For the demolition of the terminal buildings, contractors G&M Aldridge are using an Indeco IFP 1250 pulverizer, which has been working constantly with excellent results. Stage 1 of the terminal redevelopment is just one part of a five-year expansion plan for Melbourne Airport, one of the largest infrastructure investments undertaken in the state of Victoria in recent times.
The figures for this huge site speak for themselves: as well as providing jobs for about 1000 people, the project requires 27,450 tonnes of concrete, 2,000 tonnes of steel, 20 km of cabling, 15 km of hydroponic heating pipes, 5,900 square metres of tiling and 3,800 square metres of glass.
This great infrastructure project is just right for a firm like Indeco, whose product quality and reliability make it perfectly suited to the task. ■

around the world
india

HP 2500 a tireless worker in the mines of India

Far far away, in a remote part of a state called Orissa, lie the biggest coal and iron ore mines in all of India, some of which belong to Tata Steel, India's biggest private sector steel producers.
In a quarry known as the "Tata Steel Sukinda project", a contract for secondary breaking of boulders was awarded back in 2004 to Naresh Kumar & Co. Pvt Ltd, a big company operating in the fields of coal handling, mining and logistics.
They procured an Indeco HP 2500 for the job and mounted it on an L&T 90CK excavator. The contract involved secondary breaking of igneous pyroxenite boulders of hardness 1500 Kg/cm² and up to 2000 mm in diameter.
Ever since March 2005, the Indeco breaker has been used constantly on 16 hour shifts, with average production figures of around 100 tonnes.
For a brief period, the contract was awarded to another company, which installed a competitor's breaker on a larger excavator. However, due to the extreme hardness of the rock, their breaker failed miserably after just a few months on the job. So the contract was given back to Naresh Kumar & Company, who are still using the same HP 2500 as before.
The Indeco breaker has now passed the milestone of 20,000 hours of work.
The credit for this result goes not only to the excellence of the product, but also to the commitment of the NKCPL maintenance team under General Manager Mr Rabindra Nath Patra.
Mr Patra also very much appreciates the quality, reliability and efficiency of the breaker backed by the excellent after-sales service and parts availability at DCS Trading & Services Pvt Ltd. ■

around the world
poland

An IFP 1250 and an HP 4000 at work in Poland

These two Indeco products are owned by a Polish company, Lempecki-Matuszczak, which owns a quarry and also works in the field of demolitions and recycling, concentrating specifically on the growing needs of the market, especially in the environmental field.
Lempecki-Matuszczak has a vast area dedicated to recycling concrete and steel.
The breaker is used to reduce the biggest blocks before they enter the crusher.
The IFP 1250 fixed pulveriser is used to separate the concrete from the steel.
Both machines, mounted on a brand new Komatsu PC 290-8 excavator, are used 8 hours a day, and Lempecki-Matuszczak enjoy Indeco's efficiency when breaking down the hardest materials, as well as the lower vibration and stress levels transmitted to the excavator and operator. ■

around the world
italy

An IRP 850 devours a hat factory in Putignano

An Indeco IRP 850 pulveriser, mounted first on a Komatsu PC 240 and then on a PC 340, has been working since the beginning of March, demolishing an old industrial building in Putignano, a town in Bari province best-known for its Carnival and for its wedding dresses.
The old 1950s hat factory has a surface area of around 1800 sq. m. It is 9 metres high, divided into three floors, the first two for manufacturing and the third set aside for offices, meeting rooms, and an atelier and exhibition room, with two separate lift shafts, one for goods and one for people. At first the factory was located on the outskirts of the town, but over the years it gradually became incorporated into the fabric of the town, and is now completely surrounded by other buildings. It will come as no surprise that the site will be used for new housing.
In 25-30 working days, around 16,200 cu. m. of materials will be demolished at an average daily rate of 600 cu. m. on 8-hour shifts.
Anything that can be recycled will first be dismantled, and then the demolition will take place, using only an IRP 850 and an Indeco boom mounted on a Komatsu 340. The boom is needed to reach the highest parts of the building. When demolishing the lower parts, the IRP will be mounted straight onto the PC 240, without the need for the boom. The Indeco boom was made to order specifically for this job.
In the last few years, Indeco have been manufacturing arm assemblies and other special tools for particular customers with specific needs. “In such cases, the pulveriser is the best tool to use, even as an alternative to a breaker. It is quiet, it doesn’t create dust, and causes very little vibration both to the boom and to the ▸

around the world
italy

ground it stands on; it also enables us to separate materials and is generally more efficient when we need to be both quick and delicate". This is the testimony of Gianfranco Pugliese, one of the partners in Fratelli Pugliese snc who are based in Putignano. Founded back in 1974, the firm specialises in excavation and demolition work, and has been an Indeco customer for over 15 years.
They have 7 breakers, all of them Indeco: from the latest HP 5000, HP 3000, HP 600, to the ever efficient UP 900 and UP 2500 and even two golden oldies, which are still outstandingly efficient, a MES 3500 and a 121. And of course not forgetting the IRP 850 you have been reading about. Their carrier fleet is made up of several Komatsu's (a PC 240, a PC 340, a PC 80, a PC 50, a PC 27, and a PC 15) as well as two FIAT Hitachi's (a 255 and a 215). ■

around the world
spain

An HP 9000 extracts white marble in Spain

An HP 9000 is being used in a quarry belonging to the Spanish government, and licensed out to Calcitas Blancas SL.

Mounted on a Caterpillar 345, the breaker is used to extract white marble, that is mainly exported to Saudi Arabia. The breaker is used for over 10 hours a day in this quarry, which has high terraced vertical walls. Fernando Pérez Bautista, who runs his own firm in Tíjola (Almeria, Spain), has been contracted by Calcitas Blancas SL to extract marble for them, and he is very satisfied, both in terms of the quality of the HP 9000 and the service provided by Sehapla, Indeco dealership in Spain for over 25 years. ■

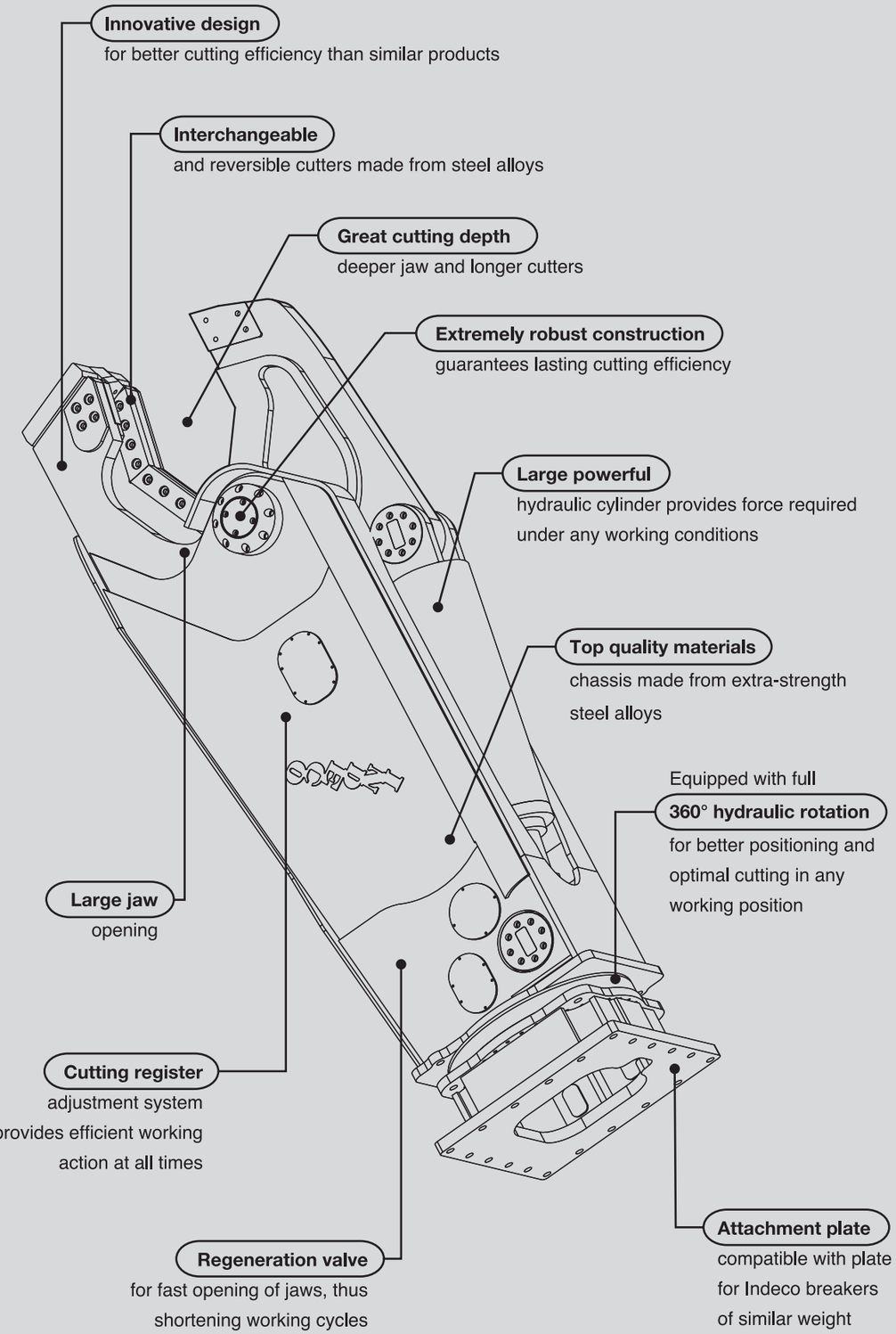
news

Indeco News: the ISS shear, a true step ahead

Indeco have once again come up with the goods - rather than merely imitating existing products, Indeco have brought out yet another groundbreaking innovation.

Several years ago, Indeco embarked on a new direction, extending our product portfolio beyond our popular intelligent hydraulic breakers in order to provide customers with a complete range of equipment and accessories for demolitions and recycling. And now the fixed IFP and rotating IRP pulverisers, the IHC compactor, the Multi multifunction tool and the arm assembly welcome the birth of their "cousin", the ISS - Indeco Steel Shears.
The shears are designed for cutting ferrous materials such as section bars, tanks, pipes and so on. Vital tools for anyone working in the scrap metal or recycling sectors.
The first-born in this new family is a large shear made to order for the American market. It can be used as the 2nd member for carriers weighing at least 44 tons, or as the 3rd member on carriers weighing at least 60 tons. Soon further models will be manufactured in different sizes.
Like all other Indeco products, the new ISS shears were designed to stand out from the crowd, being very different from other similar products. ■

Technical Data	ISS 44/60
Minimum excavator weight 2nd member	ton 44
Minimum excavator weight 3rd member	ton 60
Steel Shear Weight (excluding mounting bracket)	Kg 6650
Steel Shear Weight (including mounting bracket)	Kg 7600
Maximum working pressure	bar 400
Maximum oil delivery	l/min 400
Maximum clamping force at tip	ton 190
Maximum clamping force at shears	ton 800
Length	mm 4500
Width	mm 760
Jaw opening	mm 860
Shear length	mm 1000
Closure time (no-load)	sec 5
Opening time (no-load)	sec 4
Hydraulic connection	inch 1"
Max cutting diameter	mm 120
Profile and dimension	IPE 600
Profile and dimension	HEA 400
Compatibility of attachment plate with breaker mounting bracket	HP 12000



our people

Grausch&Grausch, a strategic partner in the heart of Europe

The IFP 1250 and the HP 4000 in the case history on page 9 were sold to Lempecki-Matuszczak by Grausch&Grausch, Indeco partners in Poland for the last 11 years. With their 82 employees, Grausch&Grausch are based in Złotków (near Poznań), with a subsidiary in Wrocław. They sell new and used earth-moving machinery and equipment, as well as spare parts. Other brands they represent as well as Indeco include Komatsu, Sandvik, Dynapac, Stehr, Simex, and Mantovanibenne. They have recently expanded their premises in Zlotków, which now cover an area of more than 13,000 sq. m., part of which is set aside for demonstrations and test drives for the equipment on sale, and for diagnosing machinery with the latest sophisticated monitoring tools. ■

trade fairs

The Indeco stand at Intermat 2009 (Paris).

The next dates for your diary

BATIMATEC
Algiers, Algeria - 2/7 May

MASZBUD
Kielce, Poland - 11/14 May

CONSTRUCT EXPO UTILAJE
Bucharest, Rumania - 11/15 May

CIVENEX
Sydney, Australia - 20/21 May

PROJECT LEBANON
Beirut, Lebanon - 1/4 June

CTT
Moscow, Russia - 2/6 June

WORLD OF CONCRETE MEXICO
Mexico City, Mexico - 8/10 June

INTER BUILD EGYPT
Cairo, Egypt - 17/21 June

HILLHEAD
Buxton, United Kingdom - 22/24 June

QME QUEENSLAND MINING & ENGINEERING EXHIBITION (QME)
Mackay, Queensland, Australia - 27/29 July

CONSTRUNOR
Braga, Portugal - 23/26 September

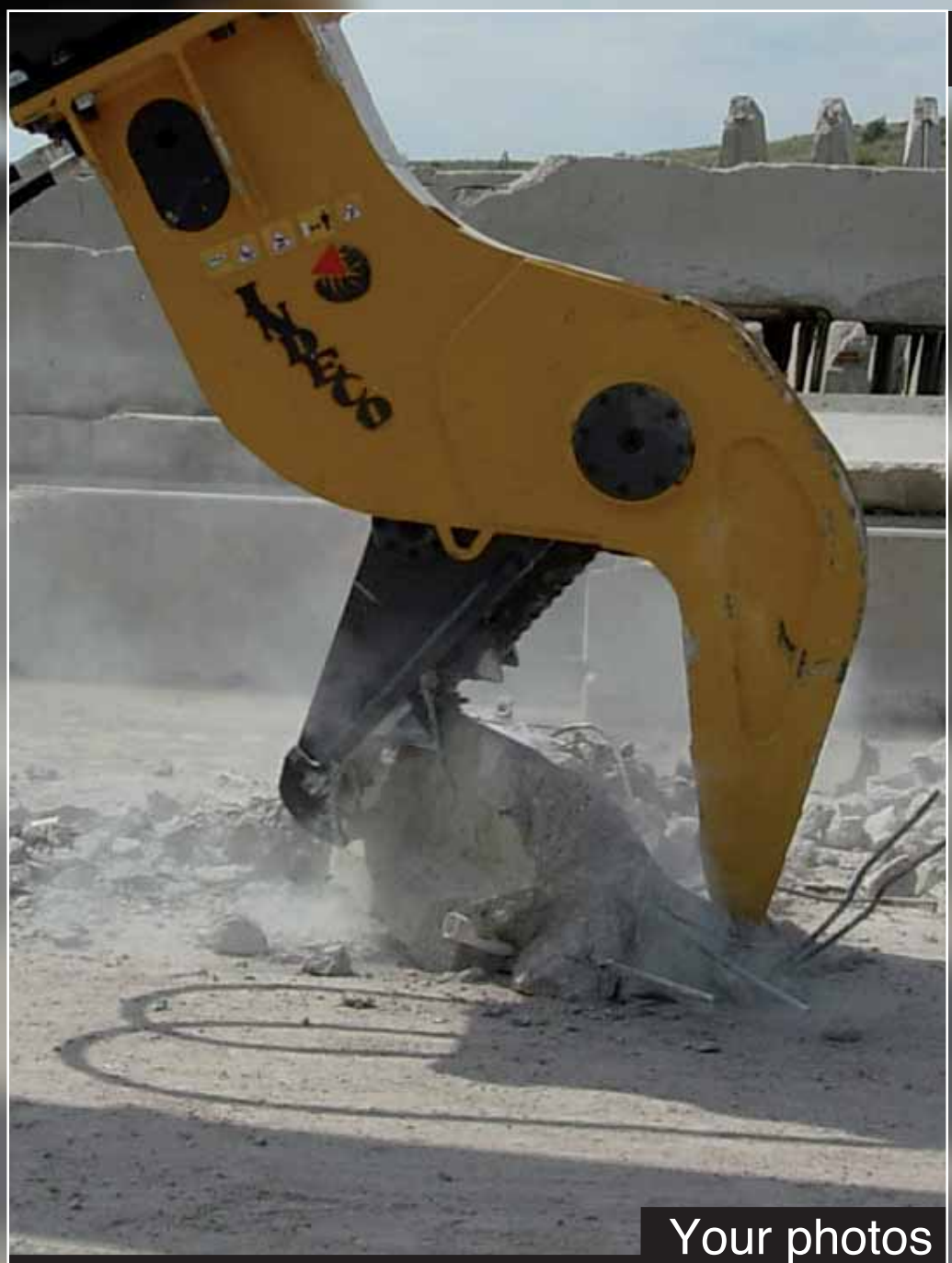
STROYTECH - THE CITY
Plovdiv, Bulgaria -
from 27th September to 2nd October

CONSTRUMURCIA
Torre-Pacheco, Spain - 14/17 October

BAUMA CHINA
Shanghai, China - 23/26 November

SAMOTER
Verona, Italy - 2/6 March 2011

CONEXPO-CON/AGG 2011
Las Vegas, USA - 22/26 March



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Your photos

An IFP 1350 at work pulverising concrete foundations. Photo by Ryan Murphy, Marketing Director, Indeco North America - 135 Research Drive Milford CT, 06460 - www.indeco-breakers.com