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Indeco in action on the waterfront

A bigger range of Indeco ISS shears

Indeco gets the best out of Alpine porphyry

The new IDG demolition sorting grab



editorial

The market asks probing questions, Indeco comes up with the right answers

FRONT COVER

The ISS shear at work dismantling a warehouse made out of iron.
Photo by Ryan Murphy, Marketing Director, Indeco North America

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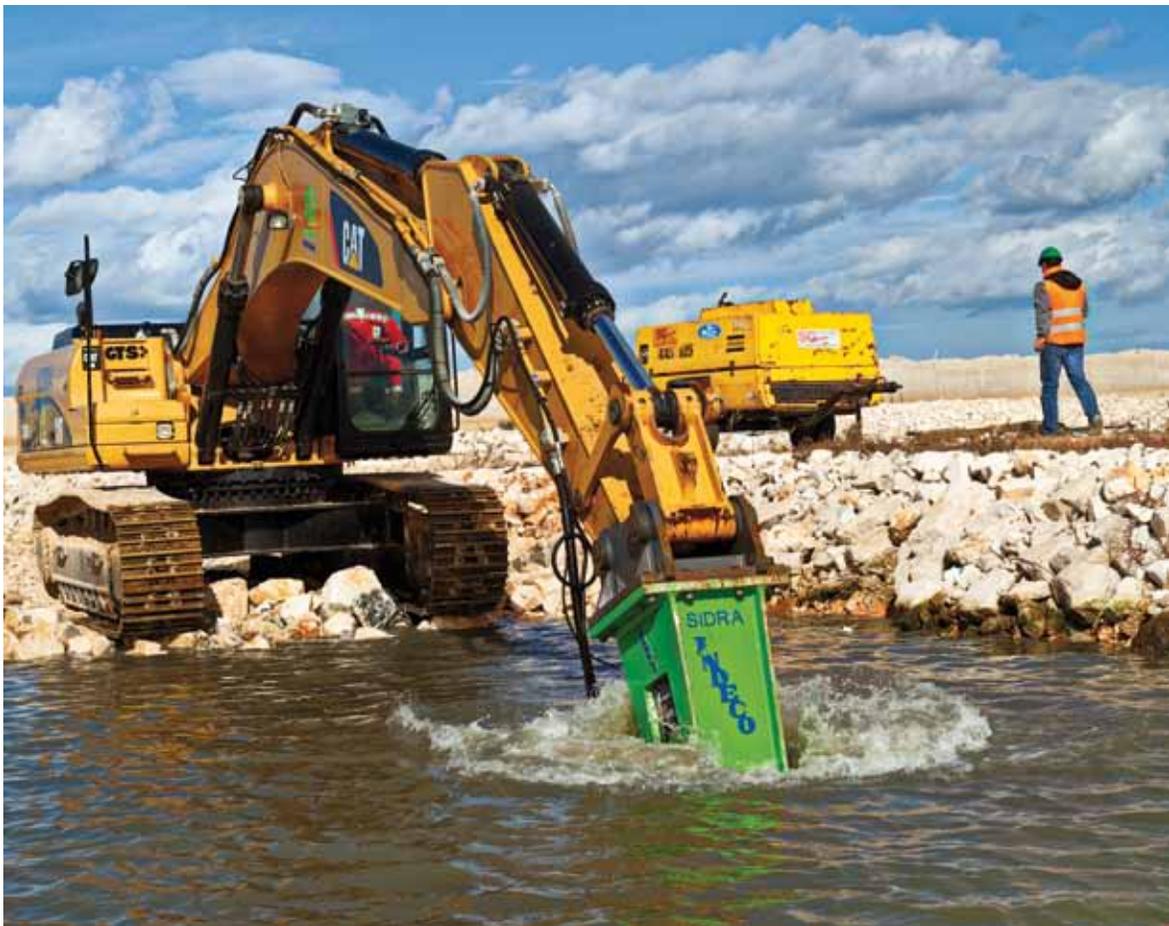
Once upon a time there was demolition. For the most part, that was done with hydraulic breakers and had a couple of simple variations: quarries, pipe trenches, buildings, and little more. Then people started talking about primary and secondary demolition, recycling in all its variations, light demolition and compaction, and so on. Market demand has over the years been fragmented into a thousand different forms by operators looking to use increasingly specific equipment for each application, so as to cut job times and costs, and as a consequence make work easier and increase profitability. Their demands could not of course remain unheeded by Indeco, as our success over the years has been based on satisfying the needs of our customers and prospects as quickly and as thoroughly as possible. And so, after making a name for ourselves on the market with the "verticality" of our range of "intelligent" hydraulic breakers, here at Indeco we gradually started broadening the range of products in our catalog "horizontally". This led to the first IFP fixed and IRP rotating pulverizers, the MULTI multifunctional tool, the ISS shears, the IHC compactors, the "IBS Boom System" pedestal boom systems, and the innovation process goes on without a break. Today, to mark the opening of the Intermat fair, we are officially presenting a series of significant new products: the latest ISS shears which complete the existing range and the brand-new IDG demolition sorting grabs. Like all Indeco products, our latest arrivals have some outstanding and unique features, from their design to the construction materials we have used, to the technological solutions, all of which translates into huge benefits for users. I would also like to underline the perfect compatibility between the equipment and the carrier for various products in the same class, which can all be mounted on the excavator using the same mounting bracket. Once again, Indeco has come up with a timely response to the requirements of a market that is increasingly demanding and extremely specialised.

Michele Vitulano
Marketing Manager

**case
history**

Indeco in action on the waterfront

**An HP 5000 ABF being used for underwater excavations
for the new commercial port in Molfetta, near Bari**



Once work has been completed, this will be the second-largest marine infrastructure in Italy, after Venice's Mose project. The new commercial port of Molfetta is an impressive project costing about 60 million euros. The contract was awarded by the Municipality of Molfetta to the Temporary Joint Venture (or ATI, in Italian) Molfetta New

Port, a consortium headed up by CMC - the Ravenna-based Co-operative of Bricklayers and Concrete Workers, which specialises in civil construction and infrastructure, alongside Sidra - Società Italiana Dragaggi, a specialist dredging company, and the Pietro Cidonio building firm, which makes marine pontoons out of reinforced concrete. ►



Given its complexity, the project is divided into several different phases. Each of the three companies is dedicating resources and personnel during each phase. The preliminary stage involved removing unexploded bombs from the Second World War (so far, more than 5,000 have been found). At the time of writing, the following tasks have already been completed:

- dredging of mud;
- a 200-metre long quay, built on top of artificial concrete boulders. It will have its own slipway for smaller vessels;
- the “spur”, a 140-metre long quay, is built out of loose fill dropped from ships, partly quarry material and partly precast concrete blocks.

The next tasks are to:

- dredge the rock;
- build the 800-metre-long second arm of the main pier, using rock from the dredging and from quarries, as well as precast boulders;
- build the 600-metre-long North-West Pier, which will have a working depth of 10.5 meters, using bored piles,

and a superstructure with a mixture of precast features and slabs cast on site. The remainder of the project is made up of another pier, the south-west bridge and the Service Centre, providing support for port activities.

Above-average performance even underwater

The sea floor needed to be lowered to create the smaller quay, and so an Indeco HP 5000 ABF hydraulic breaker was used. Weighing 3000 kilograms, and mounted on a Caterpillar 336D LN, it was customised in Sidra’s corporate colours, i.e. green.

The HP 5000 ABF had to lower the seabed from one metre to a depth of three metres by excavating down through the area’s typical stratified limestone; the excavations took two and a half months to complete, along a stretch measuring around 250 metres in length by seven metres in width.



Once the work had reached the level of the base of the foundations, divers helped to flatten out a working surface on which artificial boulders – weighing a total of 30 tons – were then placed by crane. The breaker was equipped with the underwater kit, consisting of a threaded connector, a steel protection cover and a tube connecting it to a compressor, thus preventing water from reaching the inner parts of the tool. In this particular case, the job was made particularly difficult both by the irregularity of the sea floor, and by the lack of visibility down at the sea bottom caused by the dust and pulverised limestone. “This is the first breaker we have bought”, says Michele Ettore, Production Manager at Sidra. “For this type of work we would normally use dredgers, but in this case the water was too shallow, so we decided to excavate with a hydraulic breaker. The brand we chose was Indeco, because of its reputation as a trusted, reliable company with a history stretching back several decades. What swung it for us was also

the excellence quality/price ratio of the HP 5000, which in over two and a half months of underwater work has been brilliantly reliable. The breaker worked perfectly the whole time, without any need for special maintenance.

Sidra - whose name means the Italian Dredging Company – has been planning and implementing maritime works, using specialist technologies at the forefront of development for over 30 years. As well as carrying out some of the biggest dredging schemes in Italy, Sidra – part of the Belgian D.E.M.E. multinational dredging group – also handles works for the offshore industry in the Mediterranean Basin, is active in North Africa (particularly Algeria, Morocco and Tunisia) and has a subsidiary in Libya. www.sidra.it ■

Indeco gets the best out of Alpine porphyry

For decades, two quarries in Upper Valsugana have been using Indeco breakers to extract this precious material, achieving excellent results

When we are sightseeing in a town square in Trentino or strolling through one of the region's old city centres, we may often stop to admire the beauty and quality of the exclusive porphyry stone from the local quarries.

In two of these quarries, Indeco breakers have been entrusted with the delicate task of extracting the precious material. We have come to Fornace, known to the German-speaking community as Braunstein (or "Brown Stone"), 850 m above sea level in Upper Valsugana, about 20 km from Trento, to visit two quarries run by two of the area's biggest companies - Lorenzi Vito and Porfidi Vicentini Romano. ▶





For 50 years, the Lorenzi family firm has been mining and processing porphyry. As Angelo Lorenzi, one of the owners, says, back in the '60s, when his father started the firm, everything was done by drill and blast.

Now, with the advent of machinery and new technologies, the company has grown, and currently employs 11 people (5 partners and 6 employees).

Porphyry quarries used to be mined by tunnelling first at the bottom of the rockface followed by a hole both on the right and on the left, which were completely filled with explosives.

So when the dynamite went off, down would come up to 40 m of porphyry. Practically a whole mountainside.

That is the way things went until the 1970s.

Later, safety regulations, health problems among quarry staff, and the considerable environmental impact caused by the explosions began, with the advent of pneumatic drill rigs, to lead to changes in quarrying techniques; these techniques then underwent a radical upheaval with the introduction of the hydraulic breaker.

Today, the breaker is used for primary demolition of the rockface, producing slabs or small blocks which are first sent for processing and then delivered to customers such as construction warehouses and companies working in the public procurement and flooring industries. The processing waste is reused for in-fill, and for road and railway ballast. Back in the early '90s,

the Lorenzi family bought their first small Indeco breaker. The results were so excellent, that several more purchases have been made in the meantime.

The latest arrival, two months ago, was an HP 4000 which they are very pleased with, given its excellent productivity and completely normal wear. And whenever more radical servicing is needed, close at hand is the competence and efficiency of Officina Marchi, the local dealership and authorised service centre for several prestigious brands, including Indeco.

Not far away, is where Mauro Vicentini of Porfidi Vicentini Romano & C. snc works. It was his father who started the work of excavating, processing and marketing porphyry - now there are a total of 12 people at the firm, including shareholders and employees.

Using hydraulic breakers alone means better productivity than with drill and blast and, incidentally, damages the rock much less, ending up with slabs of a precise size.

The company bought its first Indeco breaker 20 years ago - and as time passes, their confidence increases in Indeco's product quality and in the efficiency of our after-sales assistance provided by Officina Marchi.

Given the type of work they do, they have currently chosen an HP 5000 mounted on a CAT 330D excavator. The breaker is so powerful and efficient at extracting the stone for processing that the breaker only needs to be used for a dozen or so hours a week. ■

around
the world
portugal

Two Indeco breakers refurbishing a set of tunnels



Since September 1, 2009, the consortium led by the Portuguese Mota-Engil group has been working on the refurbishment and consolidation of the tunnels on the Minho line, for the Portuguese national rail network REFER E.P.E.

The tunnels date back to 1870-1880, and over the years had only received minor maintenance. Now it was time for a radical project of improvement, consolidation and stabilisation, both internally and externally.

For the 4 tunnels on the Minho line between the stations of Nine and Caminha, the jobs are all performed at the same time, because they can only be done when the line is closed.

The first task was the consolidation of the gables and vaults, cast with fiber reinforced concrete, metal/plastic reinforcements, together with transverse and longitudinal drainage systems, implementation of safety recesses and stabilization of the entrances, and finally lowering the railway tracks by about 50 cm.

The Indeco breakers, an HP 1800 and an HP 350, are being used in two areas: for lowering the tracks, which involves excavation and demolition along a 2 km stretch of railway; and for excavating 24 safety recesses and creating a work site, a job which will be carried out mechanically. ■

**around
the world**
portugal

A maxi Indeco breaker gives us reason to celebrate

Sometimes it's the small successes that bring the biggest rewards. And that is true for an HP 9000 sold by Domifer, Indeco dealer in Portugal. This maxi breaker is being used in the demolition of some highway bridges. It was purchased by one of Domifer's clients who already own around twenty breakers from another manufacturer, beating off competition from other well-known brands in the demolition and construction industry. Another reason for Domifer to celebrate this small but significant success story. ■



An HP 2500 passes a tough test inside a tunnel



How far can we push an Indeco breaker's production capacity? They tried to find out in Portugal, where an HP 2500 was working under really extreme conditions, pushing itself to the limit. The breaker, purchased by the VolvoRent rental center, was being used by a customer to build a road tunnel in record time. And so the breaker was used continuously for excavation work, 24 hours a day, while the operators worked shifts. Productivity was excellent, given the type of granite the breaker had to deal with, not to mention the working conditions which in themselves were far from easy. ■

**around
the world**
brazil

Zini Terraplenagem: 40 years in Brazil, providing service with quality



Zini Terraplenagem is synonymous with tradition and trust in the engineering and services sectors in and around Caxias do Sul, deep in the south of Brazil.

Now in its third generation of owners, the company works in industry, commerce and agriculture.

After 40 years on the market, having completed some huge projects, such as the Campo dos Bugres viaduct and the Nelson Bazei roundabout, the company is renowned for the excellence of its services.

The Terraplenagem Zini currently works in the industrial, commercial and agricultural sectors, the main drivers of the economy.

In the agricultural sector, Zini prepares flower beds and deep soils for growing vegetables and flowers, as well as land clearance.

In the commercial sector, the company focuses on engineering works and on excavations for building projects.

Zini's services for industry involve

taking charge of all excavations in the area, preparing land for industrial use, and handling jobs involving hydraulic breakers and rock demolition.

"We are veterans in this field and we know how to act, which helps us to optimise labour costs", explains Rodrigo Zini, general manager. "We work by focusing on service quality and satisfying customer demands", he adds.

"At this time, when the civil construction sector is blossoming, we believe it is worth investing in machinery and differentiated services. Rather than keeping up to date with the latest developments, we need experience and knowledge of the industry. When we get an industrial plot ready, we need to be able to count on someone who knows what they are doing: that is why we decided to buy several Indeco breakers, including our latest purchase, an HP 2000 ABF. ■

**around
the world**
namibia

An HP 12000 in the Uranium mine



for an extension to the uranium production and processing facilities, to trench excavations for laying water mains. The Indeco importer for Namibia is BM - Earthmoving cc run by Mr. Bernd Muller. ■

In the photo, Robby Wirtz (left) with Vincenzo Ratti (right) who has worked for Indeco for 22 years, and handles after-sales assistance for Milan-based Indeco Nord Italia. Ratti travels far and wide on troubleshooting missions, holding staff training courses around the world (South America, Namibia, Morocco, Russia, etc.).

9/10 hours, six days a week, that's how busy the giant Indeco HP 12000 has been quarrying uranium in Namibia. The man behind the breaker is Robby Wirtz, owner of Windhoek Renovations cc - 9 Bismarck Street - PO Box 5609 - Windhoek - Namibia. The "Langer Heinrich" uranium mine is located in the Kalahari Desert, about 80 km from the town of Swakopmund. The breaker is used for various tasks, from excavations



**around
the world**
usa

Two more big BOOMs for the American market



In 2011, two more big Indeco pedestal boom systems were sold in Georgia to a large producer of aggregates. The first picture shows a boom installed at Paulding County quarry. The second boom system was installed in December 2011 at the Forsyth quarry. The largest producer of aggregates in the world, which has one of its headquarters in Georgia, also bought two HP 12001 - ABF (U.S. version of the 9000). The company now owns six Indeco breakers. ■

**around
the world**
lebanon

An IHC 200 hits the road



Since 2009, the Lebanese company Hourieh Enterprises has been using an Indeco IHC 200 compactor mounted on a Volvo 2006. The compaction plate is used for flattening the surfaces of motorways and main roads, and for compacting trenches and drains. In the photo: compacting soil on a slope by the roadside. ■

**around
the world**
italy

An amateur model-maker falls for Indeco's models



Here are some exquisite examples of Indeco breakers handcrafted by Vincenzo Paradiso. The models in 1:50 scale, the most common scale in earth-moving equipment model-making, were made with styrene-based special resins, and then painted and decorated with decals. Ever since he was a child, Vincenzo Paradiso was mad about construction equipment and spent whole days watching them on building sites. He first began to collect models and then to modify them so that he could improve on a few details or produce versions that are not commercially available. At the same time, his respect for the Indeco brand and product range grew enormously, both because of Indeco's great successes, and because of Vincenzo's love for Apulia and the province of Bari. So when it came to choosing the right breakers to mount on his excavator models, the obvious choice was Indeco. The first two models he made were an HP 3000 and an HP 5000. Then last autumn he went back to his HP 12000 project, with even more spectacular results. Once he had finished, Vincenzo Paradiso could not wait to send us his beautiful photos. Vincenzo works as an industrial expert, dealing for several years with the maintenance of industrial machines and vehicles, as well as manufacturing plants. At the moment, though, he is working for the first Italian web-shop specialising in industrial model-making. www.modellini.com ■

A bigger range of Indeco ISS shears



With five different models available, the range of ISS shears is now complete.

Specially designed for cutting ferrous materials such as I-beams, tanks and tubing, the shears have exceptional capacity and cutting force, due to the following specific design features:

- the four heat-treated special steel blades are fully reversible and interchangeable so that they can be used for cutting at any angle;
- the deep jaw and long blades provide maximum depth of cut;
- the cutting register adjustment system provides efficient working action at all times;
- the exclusive dual-profile piercing system in both upper and lower tips ensures a clean gradual cut.

The new shears also have numerous technical innovations that greatly enhance their performance:

- the heavy-duty pivot group provides long-term cutting efficiency, keeps jaws aligned and prevents buckling;
- the exclusive integrated dual guide system can be used to adjust the alignment tolerance across the whole range of cutting strokes;
- the large, powerful hydraulic cylinder provides enough force to deal with any type of working conditions;
- the long-lasting cylinder seals are able to withstand up to 700 bars of pressure;
- the chassis is made from extra-strength steel alloys, which eliminates any flexing of the shear body;
- the shears have full high-speed 360° hydraulic rotation for better positioning and optimal cutting in any working position;
- the regeneration valve speeds up no-load movement of the jaw, thus reducing cycle times and increasing productivity;
- the interchangeable “quick change” wear bushing ensures that the knives are always optimally aligned;
- the large jaw opening provides greater flexibility for various applications;
- the innovative design improves cutting efficiency compared to similar products. ■

news

The new IDG demolition sorting grab



Years of experience in the field of “silent demolitions” have enabled Indeco to design and develop this line of equipment, which will satisfy the needs of those looking for a versatile tool, one that can handle light demolition work, such as demolishing wood and brick structures, but can also be used to select and handle the debris. Their unique structure, outstanding manoeuvrability, power and high payload are ideal for recycling and recovery. An innovative design and the use of special wear-resistant steels have helped to create a product which combines key characteristics such as exceptional robustness and light weight, with an above-average payload and gripping force. The 360° rotation makes demolitions easier under any working conditions.

The high-pressure hydraulic cylinder provides better gripping force and demolition performance.

The interchangeable load jaws are synchronised to ensure smooth movements and handling of thin materials. The wear blades are also interchangeable and reversible; teeth can be mounted to improve efficiency and reduce maintenance costs.

Having such a wide range of models means there is always at least one sorting grab suitable for your carrier, no matter how big or small it is.

All of these features, combined with very low operating costs, make the Indeco IDG demolition sorting grab a safe and reliable partner. ■

trade fairs



Photo of the Indeco stand at Samoter 2011 (Italy).

The next dates for your diary

ISRI

Las Vegas - USA, 16th - 18th April

CONSTRUEXPO

Caracas - Venezuela, 22nd - 25th April

MAZBULD

Kielce - Poland, 8th - 11th May

CIVINEX

Sydney - Australia, 16th - 17th May

CTT

Moscow - Russia, 29th May - 2nd June

M&T EXPO

Sao Paulo - Brazil, 29th May - 2nd June

HILLHEAD

Buxton - UK, 19th - 21st June

INTERBUILD EGYPT

Cairo - Egypt, 21st - 25th June

ELECTRA-MINING

Johannesburg - South Africa,
10th - 14th September

EXPOMINA

Lima - Peru, 12th - 14th September

MINEXPO

Las Vegas - USA, 24th - 26th September

FIN-BUILD

Helsinki - Finland, 9th - 12th October

ECOMONDO

Rimini - Italy, 7th - 10th November

STTP

Algiers - Algeria, 21st - 24th November

BAUMA CHINA

Shanghai - China, 27th - 30th November



your photos

An HP 2500 mounted on an L&T Komatsu being used for secondary demolition work. Photo sent by the Indeco dealer in India, Sandeep Bangur of Dozco Pvt Ltd, Plot No. 243, Block-D, Industrial Development Area, Auto Nagar - 530012 Visakhapatnam (A.P.)
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