

indecommunity



Forty years
of history,
forty years
of stories.



FRONT COVER
The Young brothers with their
Indeco HB 27 breaker; Photo by
Luca Acito

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Editorial



In 1976, I was an 8-year-old
boy full of energy.

I well remember those
years for several reasons:
we were right in the
middle of the oil crisis in

Italy and they devised a scheme to reduce
fuel consumption. A car was allowed to travel
on the roads on Mondays, Wednesdays and
Fridays if its number plate ended with an odd
number, or else on Tuesdays, Thursdays and
Saturdays with an even number, and there was
a total ban on traffic on Sundays. The empty
streets on Sundays were filled with kids on
bikes, skates and scooters and people out for a
walk.

But my main memories of that year are
of when my father, Mauro Vitulano, who
at the time had a moustache and always
carried a shoulder bag, decided to start a
new adventure, launching Copco SpA, an
independent mechanical engineering firm
manufacturing hydraulic breakers. Shortly
afterwards, he was joined by Luigi Santoro,
soon to be followed by the young Marcello
Carabellese.

Yes, at the beginning of the adventure, the
company was called Copco, but a few years



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later, after being threatened by a larger company with a similar name which had not yet moved into our niche market, but who clearly wished to, we thought it would be a good idea to change the name to INDECO.

Even then we weren't afraid of the big boys, and the name change reflected a change of pace, with the introduction of the first Copco/Indeco breakers, together with spare parts for other breakers. King of the hill at the time was the HB 27, a historic breaker that even then was capable of taking on and beating the only hydraulic breakers being sold at the time. I remember the very first rumbling of the very first HB 27 breaker on a site at the old Bari airport. Over the years, I can remember our customers, our various breakers, the trade fairs and of course so many different people who have worked with us and who continue to do so to this day.

What a lot of memories and faces, as well as some great stories to tell. After 40 years, here at Indeco, every day is an opportunity to write another page in the history of the hydraulic equipment industry.

Michele Vitulano
Marketing Manager

Contents

In Buffalo, upstate New York, five Indeco breakers have been demolishing the foundations of an old abandoned steel mill	4
Focus On. A Guide to the methods and advantages of using rock breakers to excavate tunnels	9
Near Quebec City in Canada two Indeco HP 16000 and HP 25000 breakers are excavating an artificial lake	12
Pièces Auto Talbot, based in Quebec, get great results from their Indeco ISS 20/30 rotating shear for vehicle demolitions	15
A time of major developments for Indeco	18
Indeco Stories	21
Our next trade fairs	23



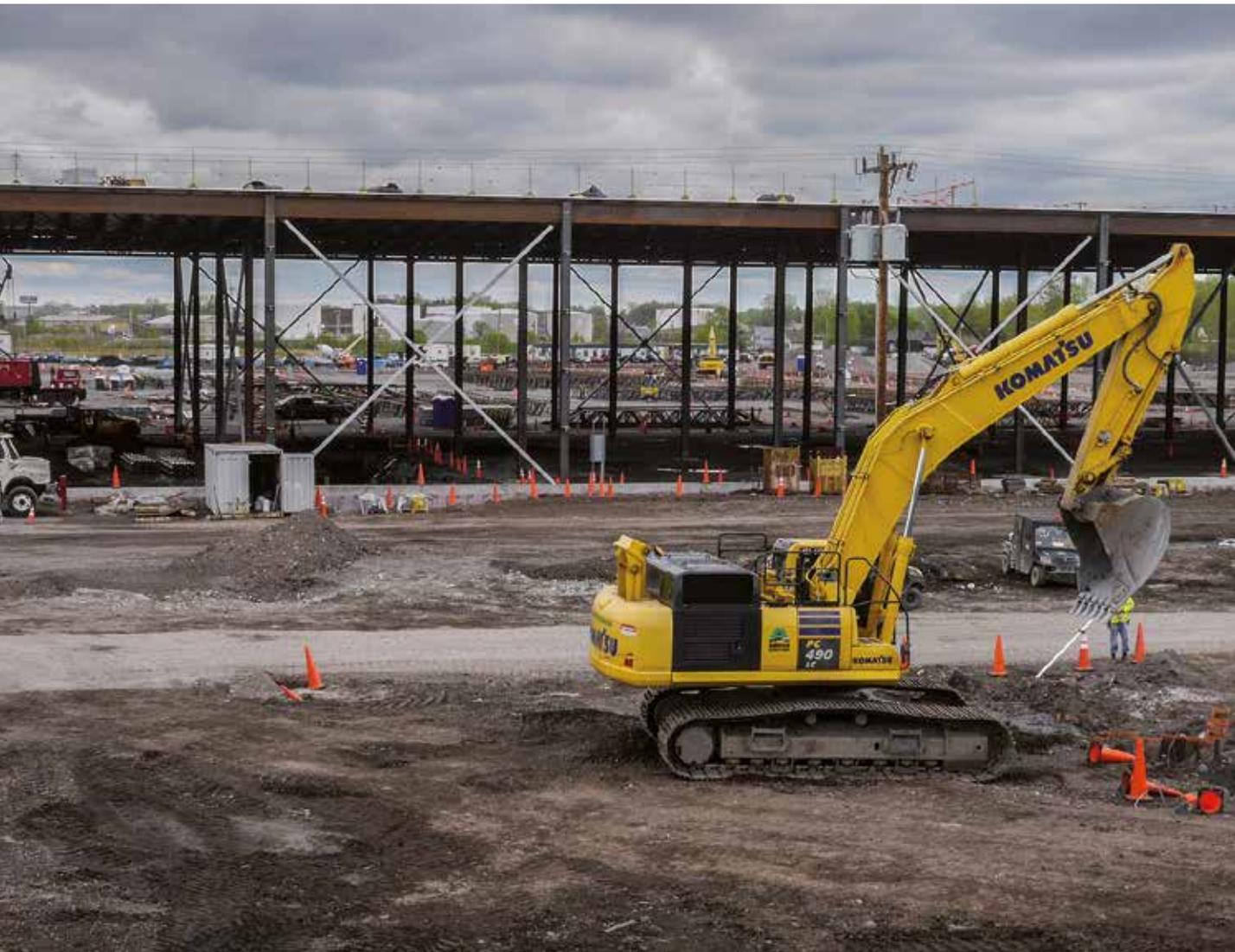
Case history

From steel to solar energy

Five Indeco breakers demolished the foundations of a former steel mill in Buffalo, New York in an area seeing construction of the largest solar panel production plant in the United States.

Upon completion, the new SolarCity solar panel manufacturing plant under construction in Buffalo, New York at the former industrial area of RiverBend will be the largest of its kind in the United

States. The project -- one of the latest ventures of Elon Musk, founder of PayPal, SpaceX and Tesla -- is of huge importance to Buffalo because it is closely tied to the city's economic revival and is part of a





broader plan called Buffalo Billion Dollar Initiative, which aims to attract high-tech companies to the RiverBend site. The new manufacturing hub, built on the grounds of an old steel mill, will occupy a total area of 29.4 hectares (61.5 acres) and annually produce next-generation solar panels in sufficient quantity to generate one gigawatt, establishing itself as the largest and most productive in the

Western Hemisphere. At full production, the modern factory will employ over 2,000 workers in addition to 1,000 working in downstream activities. Site conversion and construction of the new industrial complex were assigned to LP Ciminelli, a major contracting firm based in Buffalo that operates along the entire East Coast.

Underground challenges

Buffalo's Republic Steel plant was in operation for over 70 years before being gradually dismantled in the 1970s until permanent shutdown in the 1980s. Later, all above-ground structures were demolished, leaving the area in brownfield conditions, that is, unready to be rezoned for new development. In 2007, the land was finally reclaimed but not cleared and prepared for construction. When the SolarCity project



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For the demolition job, LP Ciminelli used five Indeco breakers – two HP 8000s, two HP 13001s and an HP 16000

was drawn up, it turned out that the structures remaining below the 93,000+ sq.

m surface of the new factory, and under the area designated for the utilities network, green spaces and parking lots, still had to be removed. The job involved the demolition of thick foundation slabs, supporting walls, and structures that were part steel, part cement and whose exact location and existence were uncertain. Using only excavators fitted with a bucket would clearly be insufficient; the job would require hydraulic breakers capable of demolishing structures even two or three meters below ground level. What initially seemed a necessary, yet secondary, step with respect to the construction of the new buildings, soon proved a major aspect of the job site.

In May 2015, after a year of work, close

to 25,000 cu m of concrete had been demolished and hauled away. Added to that were around 3,000 tons of ferrous material (not only rebars, but also plant components, small rail cars, rails, blast furnace slag and other waste).

Indeco, the energy champion

As mentioned, right from the project design phase it was evident that the underground structures would have to be removed to permit construction of the new factory, but only once the works were begun did LP Ciminelli technicians fully realize how much tougher this step was than expected. Because the steel mill had been active for decades, it had undergone changes and expansions through the years that were impossible to map with precision. Furthermore, preliminary recognition was made even more difficult by the fact that

all above-ground structures had been demolished 30 years earlier and no clear or extensive visual references were left to allow precise identification of reinforced concrete elements, such as foundations, pavement and structural reinforcements to support the mill's heavy plants and machinery.

For the demolition work, LP Ciminelli used five Indeco breakers – two HP 8000s, two HP 13001s and an HP 16000. The breakers were used to a great extent, not only to demolish elements in reinforced concrete and structures where the new foundations were to be built, but also to excavate trenches for installation of the large utilities network. To say the project was a huge challenge is no exaggeration: over the course of six months the breakers operated intensively, demonstrating productivity and reliability despite difficult, if at times prohibitive, operating conditions. The job, moreover, involved removing very hard



When excavations have been completed, it is estimated that over 30,000 cu m of concrete will have been demolished and removed to prepare the site for the new SolarCity factory. Commenting on the project, Keegan Lachut, site manager for LP Ciminelli had this to say:

“The demolition was incredibly



concrete, in some cases over 70 MPa (70 Kn/m² or 10,000 Psi) often cast with rebars with a size 36 or 34 diameter (12 and 10 U.S. size). In more than a few cases the concrete contained beams and other types of iron reinforcement that called for intense efforts for removal. To further complicate operations was the fact that Buffalo, one of the coldest cities in the United States, had been subjected to winter temperatures of -28.5°C (-20°F), freezing the ground and requiring the use of breakers to reach and discover the hidden concrete structures.

challenging, due both to the quantity of material we removed from the ground and because we really didn't know what to expect as the job progressed. All Indeco breakers performed optimally, but in certain situations the one that delivered the best was undoubtedly the HP 16000. I don't think I've ever seen a breaker giving that type of performance. In hindsight, if we had immediately understood how difficult the job would have been and the capabilities of the HP 16000, we would have rented five in place of the other



models. As I said, the other breakers gave excellent performance, but given the hard task they needed more time to get the job done, especially in the most difficult situations". Indeco breakers and most of the machines operated by the contractor were rented from Anderson Equipment, a major distributor of machinery and equipment on the East Coast with 21 branches from West Virginia to Maine. In addition to being an Indeco distributor, Anderson Equipment possesses a rental fleet of 70 breakers, from

offer the dual advantage of having a very wide range and being easily coupled to the Komatsu excavators that we distribute. Other winning features are definitely their longevity and modular construction that allows for easy maintenance." ■



Rod Dabolt: "I think Indeco today offer the most reliable and productive breakers on the market. They're the only manufacturers with a range that includes breakers such as the HP 16000 and HP 25000".

the small HP 350 to the HP 16000. At the Buffalo branch we met rental manager, Rod Dabolt, who remarked: "I think that Indeco offers some of the most reliable and productive breakers on the market today. Indeco is also the only manufacturer whose range includes true giants such as the HP 16000 and HP 25000 which, like the HP 16000 used at the RiverBend site, can really make a difference in the toughest working conditions. As rental fleet manager of this branch, I think that Indeco breakers



FOCUS ON

Focus On. A Guide to the methods and advantages of using rock breakers to excavate tunnels

A significant in-depth analysis by Indeco aimed at tunnelling specialists

Why use a hydraulic rock breaker for tunnelling? The answer lies in its versatility, as a breaker can adapt rapidly to changes in the type of rock mass, as we can see from this, the first publication on tunnelling, written by Indeco in conjunction with the Engineering Department at Bari Polytechnic. Tunneling works are inherently complex and there are plenty of variables to consider. There are many situations where a TBM (or Tunnel Boring Machine), one of the most widespread and best-known methods, cannot be used for a variety of reasons (such as size and location of the tunnel, curve radius, logistical challenges, lack of flexibility of use) that would involve excessive costs



or risks. In order to carry out a preliminary rough analysis of the best excavation method, FocusOn proposes a “criteria matrix” assessment method which takes into account a whole series of factors used when selecting the right method. “Italy’s geology is extremely varied”, says Prof. Alessandro Reina who wrote one section of the guide. “Indeed, it’s so complex that choosing the right tunnel-digging technology is crucial if contractors are going to achieve a balance between costs and benefits”. So the hydraulic breaker is a versatile, economical and efficient method that has proven without doubt to be an ideal complement, mainly to drill and blast, when excavating tunnels whose geological and geometrical profiles make other excavation methods risky, difficult or uneconomical”. “The idea to share the knowledge and experience we’ve been building up over 40 years of business in tunneling first gained ground in early 2013”, says Indeco Marketing Manager Michele Vitulano. “We’ve realized that the experience we’ve gained in that time working here in Italy alongside a variety of excavation firms could be of great value for demolition operators around the world. That’s because we’ve had to develop flexible solutions (i.e. our hydraulic breakers) for contractors who have to deal with Italy’s geology”. ■



**Italy's A3 motorway
The Serra Rotonda
Tunnel**

**Drill & blast and hydraulic
breakers alternate and
work together to dig
through difficult rock
masses.**

**Two HP 7000s were
instrumental in
excavating the Serra
Rotonda Tunnel along
the new Salerno-Reggio
Calabria highway in
southern Italy.**

DO YOU WANT TO KNOW THE BEST
METHOD FOR EXCAVATING A TUNNEL?

Download the Guide right now!
at <http://www.indeco.it/focuson/index.html>

FOCUS ON

Around the world (Canada)

A game changer at a Canadian site

Near Quebec City in Canada, two Indeco HP 16000 and HP 25000 breakers are excavating an artificial lake.



At Chutes a Charny, just a few kilometers from Quebec City and the city of Levis, three Indeco breakers are digging an artificial lake and performing other earthworks involving the excavation of over 400,000 cubic meters of rock. The new lake is part of a program to convert what was a well-known local campground into a modern resort featuring permanent and temporary lots for RVs and mobile homes and small

prefab buildings. Covering 150,000 square meters, the area includes 377 different-sized lots, 299 of which will be sold for use by owners or renters, and 72 designated exclusively for temporary parking. Despite the fact that the project will have a low environmental impact, the construction of the new reception facility, Camping International, requires a program of works, including the creation of a utilities network and the artificial lake.

FDT selects Indeco

FDT (Forage Dynami-Tech) is a major contractor in Quebec specialized in the use of explosives for excavation works, drilling and blasting for artesian wells and other works. FDT's fleet of machinery and equipment includes Indeco breakers, which the contractor uses for all excavations and works to reduce the volume of rock either as complementary method or as an alternative to blasting. FDT owns two HP 16000s (the North American designation for the HP 12000) and an HP 25000 (corresponding to the HP 18000) that are being utilized to construct the new campground-resort. As is often the



Just outside Quebec City near the town of Levis, three Indeco breakers are digging an artificial lake.

case, the initial phase of the excavation used blasting as a technique, but then breakers were brought on site to perform the actual excavation and reduction of the rock into transportable pieces. The rock, made up of grey limestone and schist with a presence of quartzite, was especially hard and abrasive in some areas. The significant quantity of material produced by excavating the lake and by other jobs (amounting to over 400,000 cu m) will in part be reutilized in situ to build embankments for the internal roads and various parking areas (for a total of approx. 150,000 cu m), and in part traded by the owner in exchange for other building materials (wood, cement, asphalt, etc.) needed to complete the works. As the material is not the product

of an actual mining activity, it cannot be sold according to local laws. As Philippe Paradis, owner of FDT, told us, the project once again confirms how much the choice for Indeco breakers was determined by the manufacturer's reputation on the market and especially by its expertise in the production of large breakers like the HP 16000. What's more, it is the only producer to offer a breaker like the HP 18000. He adds: "These breakers not only enable us to produce more, but according to the code for tenders and contracts in force here in Quebec they also allow us to command a higher rate compared to smaller equipment, a double advantage of no small importance. Reliability and productivity are an unquestionable



Today, Indeco is the only manufacturer making a 25,000 joule breaker that manages to maintain the versatility and speed of smaller breakers.

strength of this attachment. Also, the service provided by Indeco dealer SMS in Canada

is another important consideration because we know that any need, whether related to service or simply to the optimization of the excavator-breaker set-up, will be met with a quick and professional response”.

Three giants deliver impressive output

Both the HP 16000 and the HP 25000 are breakers that guarantee exceptional

productivity, and for this reason they are operated with success worldwide; these models are also highly appreciated in the mining sector because they are a valid alternative to blasting when it comes to productivity and operating costs thus changing the perspective when it comes to profitability. Today, Indeco is the only manufacturer making a 25,000 joule breaker that manages to maintain the versatility and speed of smaller breakers. With a speed that can reach 460 blows per minute and a tool measuring 216 mm, the HP 18000/25000 boasts spectacular productivity considering the quantity of rock that is fractured and demolished. Like all Indeco breakers, the HP 18000 also vaunts optimum efficiency thanks to an excellent ratio between input and energy yield. In addition, the breaker is fitted with the ABF system (anti-blank firing), a patented technology offered only by Indeco that significantly improves efficiency and increases the life of the breaker. ■





**Around the world
(Canada)**

A tale of productivity and reliability

Quebec firm Pièces Auto Talbot have been getting great results with their Indeco ISS 20/30 rotating shear for vehicle demolitions.



The demolition of automobiles and other machinery, such as construction and agricultural equipment, has long been an essential part of the production cycle of ferrous metals supplied to the iron and steel industry. Today, two-thirds of the steel produced in the world comes from scrap metal, meaning that this activity is more important with respect to iron ore extraction, which accounts for only a third. China and other Asian markets, which see a high demand for raw material, have had a critical role in determining the volumes and price trends of ferrous and non-ferrous metals for years. Despite the current contraction in demand, the recycling industry has continued to develop techniques and use machines that improve productivity and boost profit. Today Indeco offers a range of shears that permit the recycling sector to operate equipment that assures that both goals are achieved.

Talbot improves production thanks to an ISS 20/30 rotating shear

Pièces Auto Talbot based in Stoneham, Canada about 20 km north of Quebec City has been doing business in the auto demolition market for many years. The company delivers the material to Montreal where it goes through another treatment process; the recycled material is then loaded onto ships directed to Asia.

Brothers Benoît and Pierre Arsenault, founders and owners of the company, decided to switch cutting systems, opting for a shear instead of the oxygen/

acetylene cutting torch. On the advice of the Indeco SMS dealer, one of the major distribution companies on the Canadian market with 39 centers across the country, Pièces Auto Talbot opted for an Indeco ISS 20/30 rotating shear with 360° rotation. The shear has proven extremely productive and has demonstrated exceptional reliability over an extended period of time. The ISS 20/30 rotating shear has effectively given a new impetus to the company, transforming their business and enhancing profitability. As Benoît Arsenault commented: "For years we used the cutting torch both to make primary cuts and reduce the scrap to furnace-ready Pièces, but though we had a skilled and expert workforce, we couldn't handle all the work at peak activity. The Indeco ISS 20/30 rotating shear allows us to perform problem-free cutting of a pipe with a ¾" thickness and 10" diameter, a railway track, an IPE beam up to 16x50, an HEA beam 12x58, or a 2.8" solid cylindrical bar. The shear turned out to be excellent for cutting big bundles of electric cables and tires and definitely improved safety conditions." Added Pierre Arsenault: "Before we bought the shear we could fill one 30-ton container a week using three people working with the torch, whereas now we can fill two containers for a total of 60 tons using just one machine operator. We are still operating our old Komatsu excavator, but are about to buy a new one from SMS. We're sure this will improve the speed and precision of the movements and the rotation of the shear, and that we'll gain an additional advantage when it comes to productivity. By operating 8-10 hours per day, every day, except holidays and when weather conditions don't permit, we doubled productivity.

After 4000+ tons of material produced without experiencing even one problem, we're in a position to say that the ISS 20/30 rotating shear is extremely reliable”.

A dependable workhorse

Behind such reliability is an innovative design and quality in construction, A result of close attention to the factors affecting the durability of components and productivity.

Like the other shears in Indeco's range, the ISS 20/30 rotating shear benefits from the manufacturer's experience in the structural use of high-strength steel applied with success to their range of breakers. For this reason, the shear body assures long-lasting performance and resists flexing over time.

The piercing tip is constructed with a single blade that covers half of the piercing surface, whereas the four main knife blades are identically sized, interchangeable and reversible to get maximum use. The regeneration valve speeds up no-load movement of the jaw, which opens and closes more quickly, thus reducing cycle times and increasing productivity.

The hydraulic cylinder is an exclusive Indeco design, and much larger than usual, thus providing enough force to deal with any type of working conditions. Special attention was also paid to the choice of hard-wearing hydraulic gaskets that resist up to 700 bar. The shear cuts with precision even after prolonged use thanks to the dual guide pack system, which adjusts the jaw's alignment tolerance and prevents deflection in both directions during entire cutting cycle. ■



A time of major developments for Indeco

For some time now, here at Indeco, we'd been planning the launch of a series of developments across most of the product range. Today, to mark Bauma 2016, it is at last time to show them off to the general public. We're looking to give yet another boost to the productivity and reliability which are the hallmarks of our product range. We've done this by further improving the positive qualities of our range, with some crucial enhancements, as well as by broadening the range by launching new products to meet the needs of our end-users, for the first time crossing into new territory for us, outside our comfort zone of the demolition sector.



We have upgraded the hydraulic system on our **breakers**, so that the HP series has now also become **Fuel Saving (FS)**. Compared to other manufacturers' models of equivalent weight and performance, Indeco breakers require less oil per minute and lower operating pressure. And as using lower hydraulic power means reducing the rpm on the carrier, this leads to fuel savings of up to 20%, while ensuring optimum performance and maximum productivity. This advantage is even more clear-cut if we compare the Indeco breaker with gas- or gas/oil-powered products of similar sizes manufactured by our competitors. That's quite a plus, both for the environment and for your margins, which grow in proportion to the size of breaker you're using. All of the new breakers in the Indeco HP range will be displaying the FS badge. All of the silent demolitions and material handling products have been given the same rotation mechanism which will now be used on all rotating products.

All of the HP Fuel Saving breakers save up to 20% on fuel consumption



The new IFP and IRP pulverizers, now more robust and featuring interchangeable teeth



New geometries and faster jaw replacement on the IMP multiprocessor

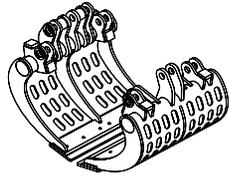
As regards **the IFP fixed and IRP rotating pulverizers**, as well as a few improvements to make them more robust, the new models will have interchangeable teeth on the mobile jaw (welded onto a bolt-on plate and secured with special latches) for optimal penetration of the material being demolished.

New by name and new by nature, **the Indeco IMP multiprocessor** has been redesigned, given a more robust body, and its maximum jaw opening has been further increased, while its demolition, pulverizing and cutting geometries on the various jaws have been improved. The jaws have been updated to make it easier to dismantle and replace and now offer better grip. Its pulverizer version now has interchangeable teeth. The shear version now has all of the features of the ISS Series Indeco shear (reversible and interchangeable cutters, and a dual-profile piercing system). The range has also been modified and extended.

And the most revolutionary change comes with **the new IMG grabs**, which have evolved from the previous IDG demolition grabs. On a single housing, using the same hydraulic circuit both for opening/closing and for rotation, the new IMG grabs are now made in 5 different versions for 5 different specific jobs in various sectors:

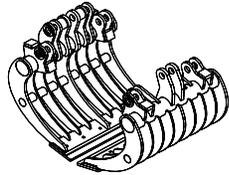


The new IMG grabs are now made in 5 different versions



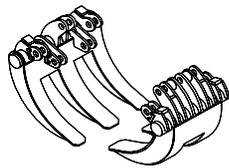
IMG S Sorting Jaws

Ideal tools for sorting waste materials from demolition work, from clearing stony ground, and from dredging of rivers and seas, and so on.



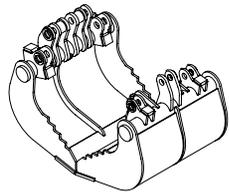
IMG D Demolition Sorting Jaws

Ideal for light demolition jobs, such as demolishing wood and brick structures, the IMG D can also be used to select and handle waste materials. It is also perfect for recycling and recovery.



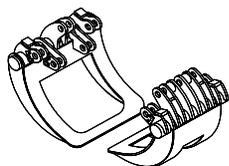
IMG H 3 + 2 Material Handling Jaws

Designed to facilitate handling of large objects such as scrap metal, vehicles for demolition, and other demolition scrap, the force transmitted by its hydraulic rotation system to the interlocking teeth provides a safe powerful grip.



IMG L Loading Jaws

The geometry of the jaws is designed for maximum payload, making them ideal for moving earth, gravel, sand, mud, boulders, agricultural and industrial waste, urban waste, minerals, and plenty more.



IMG T Timber Jaws

Designed to combine maximum gripping force with the lightest possible weight, facilitating the handling of large tree trunks in forestry operations.



IndecoStories

Telling the story of our first 40 years through the words of our customers

One reason why Indeco has now been in the marketplace for 40 years is that we have always focused on our markets.

Another is that we've been able to win over the trust of our end-users, keeping our promises, no matter what the cost. And there's the fact that we've been able to meet the needs of our customers, providing clear answers to their questions. And not forgetting our ability



to be a point of reference, a constant companion alongside people at work, wherever they are in the world. That's why we've chosen to celebrate

the first 40 years of our history by telling some of those stories in a series of short videos, starring our products and the operators who use them. Stories of hard work and genuine values. Stories that make every workday special – they might seem ordinary, but that's all the more reason to tell them. IndecoStories can be seen at the www.indeco.it website, as well as on our dedicated Facebook page and YouTube channel.

The workhorse

Among the ancient rocks of the Murgia Hills, near Altamura in our Southern Italian province of Bari, Massimo Tubito



Above: Massimo Tubito with his father and his nephew Nicola. Above: a view of a quarry. Below: a view of the Pulo di Altamura. Right: Nicola Cristantielli, from Massimo Tubito's firm, alongside the HB 27.





tells how when his first daughter was born, he celebrated by buying his first Indeco HB 27 breaker. Now, 25 years on, after two more kids (and of course two more Indeco

breakers!), Massimo is still delighted with his faithful old HB 27, which he calls his workhorse, capable of working all day long on any type of rock, without having to worry about downtimes.

“One of the family”

“In a family firm, you have to be careful who you take on to work with you,” says Adrian, the eldest of the three Young brothers from Llandissilio, in West Wales. That explains why, back in 1987, his

father and grandfather thought long and hard before buying an Indeco HB breaker for their firm, Young Bros. Ltd. Today it’s clear that their trust was well-placed. As well as making excellent products, Indeco has proved to be a close-knit, efficient team, from the local dealers to the UK subsidiary all the way to the Italian factory, acting rapidly and effectively to solve a wide variety of problems. It’s down to their dedication that, after 29 years of hard toil, the HB



27 is still so productive and reliable, just like one of the family. ■



Above left: John Jackson, CEO of Indeco UK and Jimmy Farrugia of Spartan Engine & Plant Repairs Ltd. Top right: the three Young brothers proudly wearing their local rugby team’s kit. Left: the three brothers today, with their HB 27. Above: a road in Pembrokeshire, West Wales. Below: Spartan’s headquarters in Barry, South Wales.



Trade fairs



Indeco stand at Intermat 2015 (Paris)



The next dates for your diary

Hillhead

Buxton (UK) 28-30 June

Expotunnel

Bologna (Italy) 19-21 October

Bauma China

Shanghai (China) 22-25 November

Bauma Conexpo

Delhi (India) 12-15 December



YOUR PHOTOS

GRUPO VIALES URUGUAY installed a 3,000 kg INDECO HP 5000 breaker on a CAT 365 excavator belonging to the ODDONE ZUNINO company.

Here it is, excavating at the headquarters of the Inter-American Development Bank (CAF) in the old town of Montevideo, Uruguay.

Photos sent to us by Alejandro Morixe of GRUPO VIALES www.grupoviales.com

