

Hydraulic hammers

HP Series



Hydraulic hammers

Indeco HP

Indeco HP hydraulic hammers are an outstanding expression of Italian high-tech and construction quality applied to demolition. In-depth research into hydraulic systems, materials, heat treatment and accessories have enabled Indeco to establish a reputation on markets throughout the world for product excellence.

With its many different models, divided into large, medium and small and available in various versions, Indeco has the widest range of hammers available anywhere in the world. This provides end-users with a huge choice, ensuring that they can find the ideal hammer/excavator match.





Small hammers

Despite their compact size, Indeco's range of small hammers are exceptionally reliable, quiet and efficient, and best suited for such jobs as excavations work, highway maintenance, demolitions and recycling in city areas and building refurbishment. Their versatility makes them extremely efficient in specialist jobs such as maintenance in iron foundries.



Medium hammers

Their excellent weight/power ratio and their slimline structure make the mid-range Indeco hammers the ideal choice for classical applications, such as demolishing buildings, earthworks in inhabited areas and secondary demolitions in quarries, as well as for more specific tasks. In fact, mid-range hammers are used for underwater work (using a special kit) as well as for digging narrow deep trenches and removing casting slag from blast furnaces.



Large hammers

Combining maximum power with the effectiveness of intelligent technology, Indeco's larger hammers are unbeatable when it comes to completing the toughest jobs in the shortest possible time-frame – whether it's the biggest demolition jobs, primary breaking in quarries, digging foundations, or excavating huge rail and road tunnels.



Features of Indeco hammers

All Indeco hammers have a special intelligent hydraulic system **[1]**, enabling them to automatically vary the energy and frequency of the blows according to the hardness of the material being demolished. This optimises the hydraulic pressure delivered by the machine, thus improving productivity and enhancing the overall performance. Exclusive features such as the synchronised internal distributor **[2]** aligned with the piston, the oil cushions **[3]** for vibration dampening and the short hydraulic flow pattern **[4]** make it possible to completely do away with seals in the distribution area, a decisive factor in extending the working life of the hammer and significantly reducing downtimes. The use of special low-alloy steels, exclusively manufactured according to Indeco's own formula greatly lengthen the average working life of the major hammer components. The housing **[5]** is made out of extra-strength HARDOX® steel wear plates, which eliminate buckling.

The piston **[6]** is divided into two parts, for greater impact energy and lower operating costs. The centralised greasing system **[7]** enables the sliding parts to remain lubricated even when the hammer is operating horizontally, thus considerably reducing wear and tear on components and extending product lifetime.

The “quick change” interchangeable bushing **[8]** is available in various materials for different jobs; it is inserted into the lower tool bushing where the tool moves, and reduces maintenance times and costs, by cutting out the long machine downtimes needed to replace the traditional fixed bushing.

All carriers which mount Indeco hammers benefit from the Indeco dual shock-absorption system **[9]**: an internal hydraulic one and a mechanical one, located outside the body, which substantially reduce the vibrations transmitted to the excavator. The excavator boom is also subject to lower stress levels, as Indeco hammers are considerably lighter under working conditions than rival makes in the same

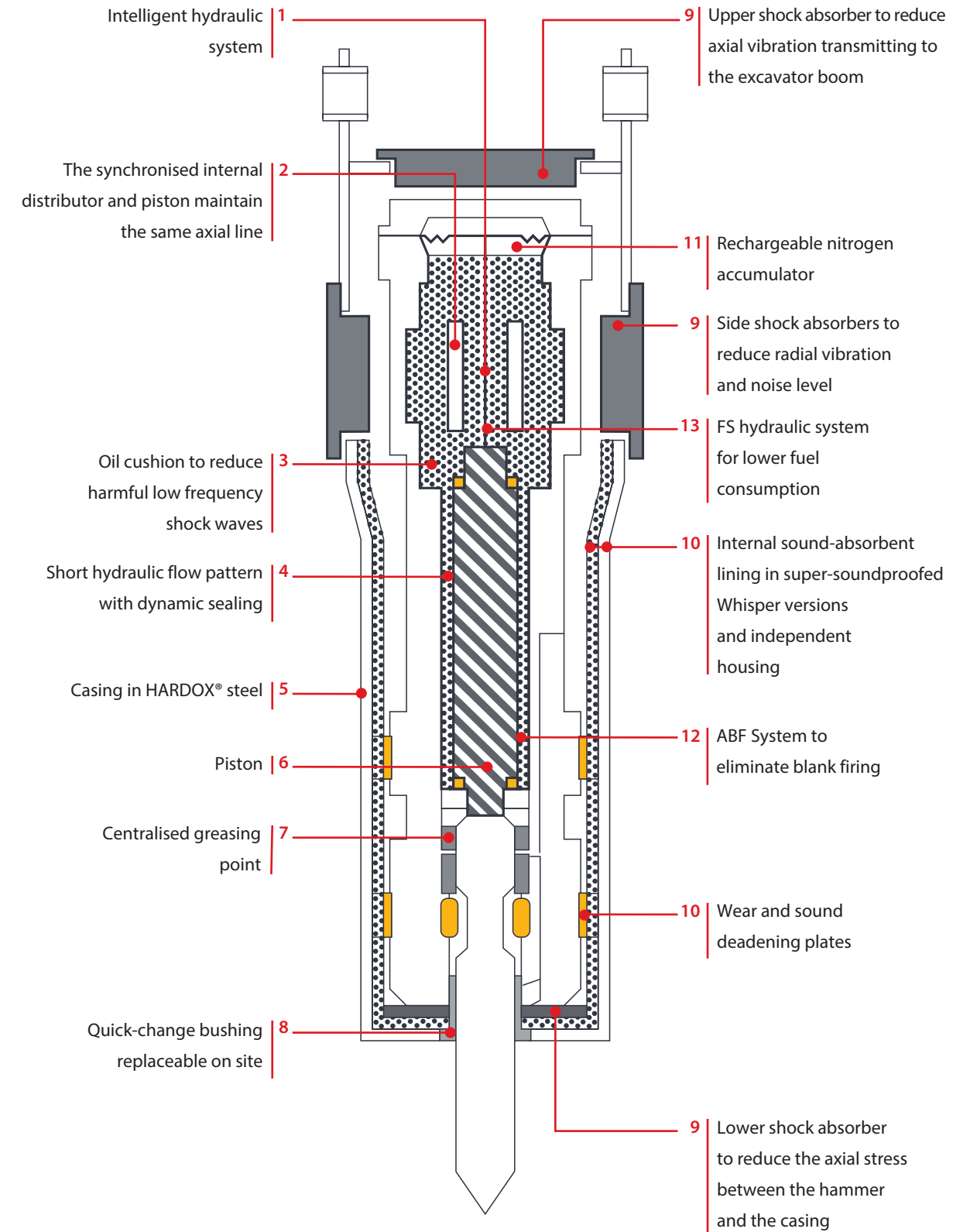
class. Alongside the standard versions there is also a super-soundproofed Whisper version, whose body is lined internally with sound-absorbent material **[10]** and an “anti-rumble” paint, which – combined with a few modifications to the bushing – enable noise emission levels to be considerably reduced. By lowering pressure peaks, the rechargeable hydraulic/nitrogen accumulator **[11]** also reduces stress in the excavator hydraulic circuit, keeps the gas charge and energy per blow constant, and reduces maintenance and operating costs.



The ABF (Anti Blank Firing) system **[12]**, installed as standard on all of the medium- and large-range Indeco hammers, cuts out blank fire by eliminating any down pressure from the hammer whenever the tool is not resting firmly on the surface to be demolished. This increases the service life of all components subject to wear and tear, as well as reducing stress to the hammer body and excavator arm.



As well as being efficient and reliable, Indeco hydraulic hammers are now proving to be even more environmentally-friendly and low on fuel consumption. With a now even more efficient hydraulic system **[13]**, the HP series has now also become FS (Fuel Saving). Compared to other manufacturers' models of equivalent weight and performance, Indeco hammers require less oil per minute and lower operating pressure. And as using lower hydraulic power means reducing the number of revolutions per minute on the carrier, they lead to fuel savings of up to 20%, while ensuring optimum performance and maximum productivity. This becomes even more evident when comparing the Indeco hammer with gas or gas/oil powered products of similar size manufactured by competitors.



Small hammer range

HP series

These excellent jobsite companions are the most numerous class of models in the Indeco range.



Technical Data	HP 100 FS		HP 150 FS / HP 150 FS Heavy Duty		HP 200 FS		HP 400 FS		
Type of carrier	1	2	1	2	1	2	1	2	3
Excavator weight (possible)	0,5 ÷ 2 tons		0,7 ÷ 3 tons		1,4 ÷ 5 tons		1,7 ÷ 6,5 tons		
Weight of hammer when operated	59 Kg		80 / 98 Kg (Heavy Duty)		160 Kg		230 Kg		
Steel diameter	42 mm		45 mm		48 mm		65 mm		
Pressure adjusted to the excavator	160 bars		160 bars		160 bars		160 bars		
Back pressure max	16 bars		11 bars		11 bars		12 bars		
Energy class per blow	160 joule		230 joule		300 joule		550 joule		
Number of blows per minute	400 ÷ 1900 n/min		540 ÷ 2040 n/min		700 ÷ 1800 n/min		540 ÷ 1670 n/min		

Carrier key



HP 550 FS			HP 600 FS			HP 700 FS		HP 900 FS	
1	2	3	1	2	3	1	3	1	3
3 ÷ 9 tons			3,5 ÷ 10,5 tons			4 ÷ 12 tons		5 ÷ 14 tons	
320 Kg			390 Kg			440 Kg		550 Kg	
75 mm			75 mm			80 mm		90 mm	
160 bars			170 bars			170 bars		170 bars	
12 bars			11 bars			12 bars		11 bars	
750 joule			850 joule			950 joule		1200 joule	
780 ÷ 1720 n/min			600 ÷ 1340 n/min			620 ÷ 1500 n/min		570 ÷ 1180 n/min	

For data on the pressure adjusted to the hammer and on oil flow, please consult the “Parameters for selecting and adjusting the hammer” page.

N.B. All illustrations and numerical data in this catalog are purely indicative and subject to change at our discretion and without notice. We therefore reserve the right to modify them with a view to improving and continuously developing our product.

Medium hammer range

HP series

A perfect blend of power and agility characterises the mid range Indeco hammers, tireless partners even on the toughest of jobs.



Technical Data	HP 1200 FS	HP 1500 FS	HP 1800 FS
Type of carrier	134	45	45
Excavator weight (possible)	6,5 ÷ 16 tons	10 ÷ 20 tons	12 ÷ 22 tons
Weight of hammer when operated	650 Kg	850 Kg	1000 Kg
Steel diameter	90 mm	110 mm	115 mm
Pressure adjusted to the excavator	170 bars	180 bars	180 bars
Back pressure max	8,5 bars	10 bars	8 bars
Energy class per blow	1500 joule	1750 joule	2000 joule
Number of blows per minute	450 ÷ 980 n/min	420 ÷ 1000 n/min	440 ÷ 1060 n/min

Carrier key



HP 2000 FS	HP 2500 FS	HP 2750 FS	HP 3000 FS
45	45	5	5
15 ÷ 25 tons	16 ÷ 28 tons	16 ÷ 30 tons	19 ÷ 32 tons
1200 Kg	1500 Kg	1690 Kg	1900 Kg
120 mm	130 mm	135 mm	140 mm
180 bars	180 bars	190 bars	200 bars
8 bars	7 bars	7 bars	8 bars
2500 joule	3400 joule	3700 joule	4400 joule
460 ÷ 940 n/min	400 ÷ 870 n/min	400 ÷ 870 n/min	360 ÷ 870 n/min

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Large hammer range

HP series

This is the most prestigious class, containing the top range of Indeco hammers. They are top hammers not only in terms of size, but also in their outstanding performance.



Technical Data	HP 3500 FS	HP 4000 FS	HP 5000 FS	HP 6000 FS
Type of carrier	5	5	5	5
Excavator weight (possible)	21 ÷ 38 tons	23 ÷ 42 tons	27 ÷ 50 tons	30 ÷ 55 tons
Weight of hammer when operated	2200 Kg	2500 Kg	3150 Kg	3600 Kg
Steel diameter	145 mm	150 mm	160 mm	170 mm
Pressure adjusted to the excavator	210 bars	210 bars	210 bars	210 bars
Back pressure max	7 bars	8 bars	7 bars	7 bars
Energy class per blow	5200 joule	6200 joule	8000 joule	9000 joule
Number of blows per minute	370 ÷ 760 n/min	340 ÷ 820 n/min	300 ÷ 670 n/min	300 ÷ 650 n/min

Carrier key

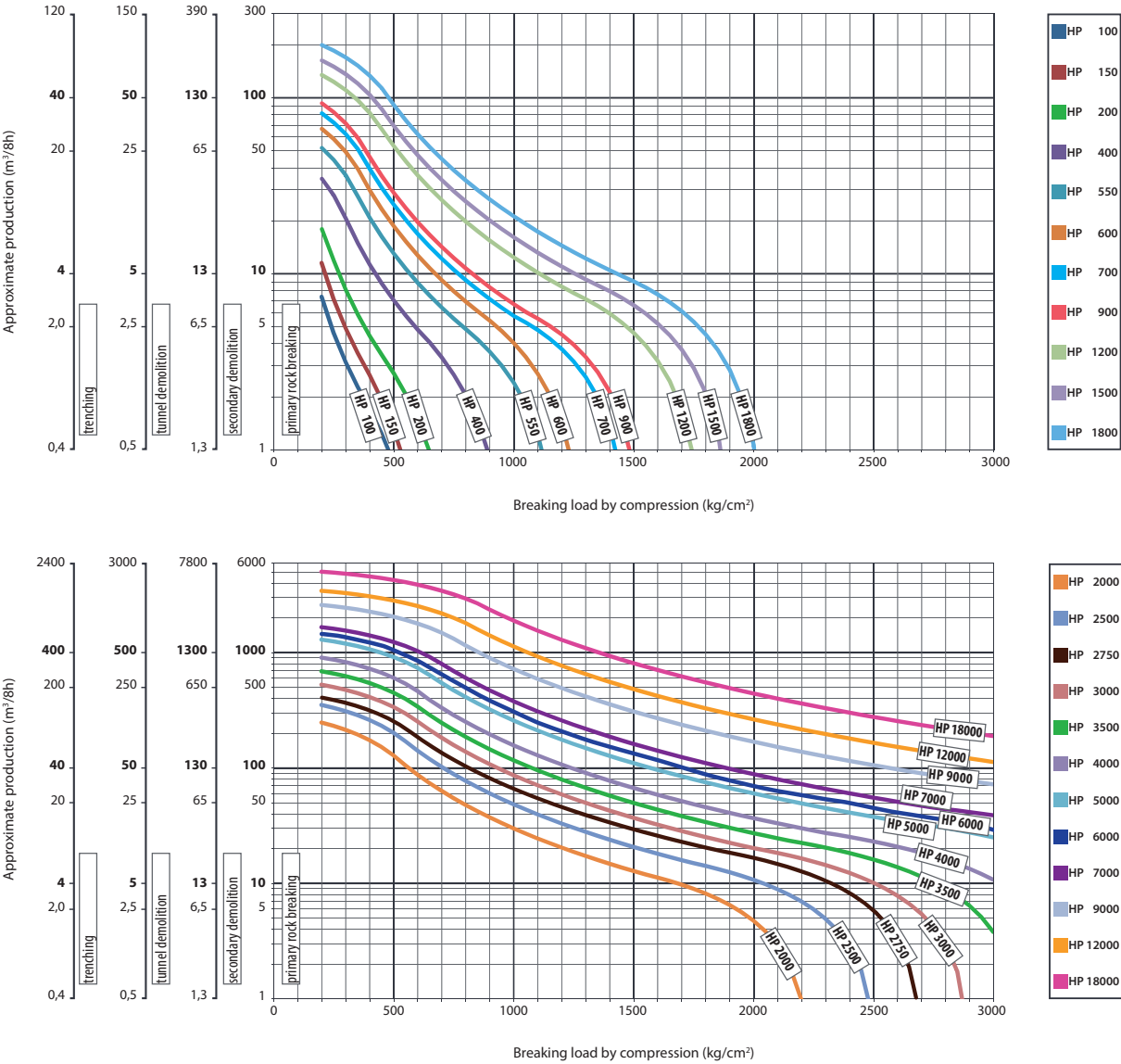


HP 7000 FS	HP 9000 FS	HP 12000 FS	HP 18000 FS Plus
5	5	5	5
32 ÷ 63 tons	39 ÷ 80 tons	45 ÷ 120 tons	60 ÷ 140 tons
4000 Kg	5000 Kg	7800 Kg	11050 Kg
180 mm	195 mm	215 mm	250 mm
210 bars	210 bars	230 bars	230 bars
8,5 bars	8 bars	9 bars	11 bars
10500 joule	15000 joule	20000 joule	25000 joule
320 ÷ 580 n/min	270 ÷ 540 n/min	240 ÷ 550 n/min	240 ÷ 460 n/min

For data on the pressure adjusted to the hammer and on oil flow, please consult the “Parameters for selecting and adjusting the hammer” page.

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Productivity



N.B. These nominal values are for reference purposes and are not binding

Noise levels

Noise levels measured* at various distances

Distance	10 m	15 m	20 m	25 m	30 m
HP model	96	92,5	90	88,1	86,5
HP Whisper model	93	89,5	87	85,1	83,5

Guaranteed noise level* corresponding to EU Directive 2006/42/EC

HP model	126
HP Whisper model	123

*values expressed in dB (A)

Parameters for selecting and adjusting the hammer

Model	Compatibility hammer/carrier (tons)*	Oil pressure adjustment (bars)/ oil flow (l/min)**	Model	Compatibility hammer/carrier (tons)*	Oil pressure adjustment (bars)/ oil flow (l/min)**
HP 100	0,5 2	105 115 120 125	HP 2500	16 28	115 125 130 140
HP 150	0,7 3	105 115 120 125	HP 2750	16 30	120 130 135 145
HP 200	1,4 5	105 115 120 125	HP 3000	19 32	125 135 140 150
HP 400	1,7 6,5	105 115 120 125	HP 3500	21 38	130 135 140 160
HP 550	3 9	105 115 120 125	HP 4000	23 42	130 140 145 160
HP 600	3,5 10,5	105 120 125 130	HP 5000	27 50	130 140 145 160
HP 700	4 12	105 120 125 130	HP 6000	30 55	130 140 145 160
HP 900	5 14	105 120 125 130	HP 7000	32 63	140 145 150 165
HP 1200	6,5 16	105 120 125 130	HP 9000	39 80	140 150 155 165
HP 1500	10 20	115 120 125 140	HP 12000	45 120	140 160 165 180
HP 1800	12 22	115 120 125 140	HP 18000	60 140	140 160 170 180
HP 2000	15 25	115 125 130 140			

*Suggested uses on machines with an overall weight (in tons):

Best Possible (match subject to approval by the Indeco dealer)

**Pressure adjusted to the hammer (bars) relative to oil flow (l/min):

Optimum pressure adjusted to the hammer (in bars) Optimal oil supply (l/min) Possible pressure/oil

Accessories

Indeconnect system

New remote monitoring system, based on the principles of the Internet of Things, to prevent equipment obsolescence and keep high performance. The 'Indeconnect' [1] system consists of a **device** equipped with 4G technology for a wireless connection to the network, to be mounted on the equipment, and a cloud-based **web platform** you can access from mobile devices (with an app) or from PC, that lets you view the data transmitted in real time by each installed device: working hours, working position in space, hydraulic oil temperature, ambient temperature, GPS position, and more. Through Indeconnect you can:

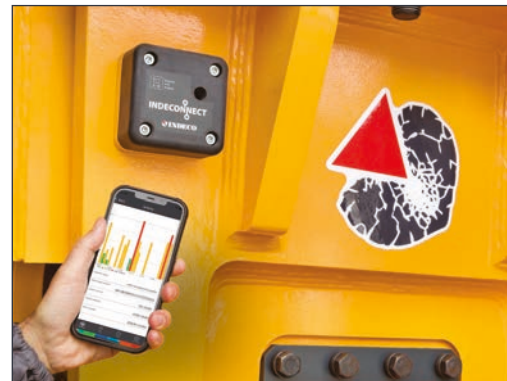
- **Monitor productivity**, making sure each Indeco tool is working as intended
- **Check operations**, verifying in real time the various internal and external parameters of the equipment to make sure that it is used in optimal conditions and correctly
- **Increase security**, by remotely checking the position of the equipment through GPS
- **Plan maintenance**, monitoring the health of each Indeco tool in real time, also through the automatic alert and messaging system that lets you order spare parts and reduce machine downtime to a minimum
- **Optimise rental**, by supervising and monitoring the management of rented equipment.

IDA (Indeco Dust Abatement) System

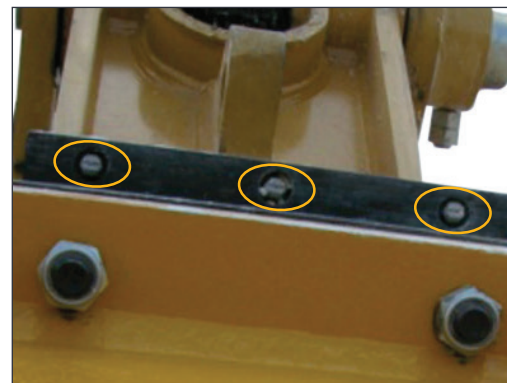
An innovative system that is particularly effective for reducing wear and tear on components, extending the working life of the hammer and protecting operators against exposure to microparticles of crystalline silica. It consists of a jet of high-pressure water spray, emitted by a number of nozzles [2] on the casing, which prevents dust from harming both the tool and the operator.

Recently updated to comply with the latest OSHA directives, the system is available in two different versions:

1 |



2 |



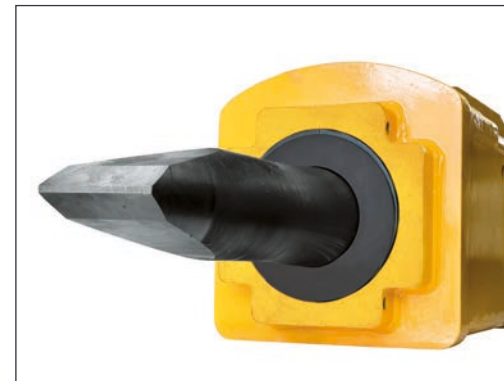
3 |



4 |



5 |



6 |



7 |



8 |



• High-pressure system

Available for medium-large to large hammers, it is made up of an air compressor and a high-pressure water pump, mounted onto the excavator and driven by two hydraulic motors powered by the excavator. A set of electrohydraulic valves enable the excavator operator to activate the pump and compressor independently, thus starting up either one or both of the protection devices: the dust-abatement kit, which uses a fine water spray and the dust shield, which uses the internal pressurization of the hammer [3] to prevent dust, water and debris from getting into the hammer through the bushing, as can occur during tunnel demolitions and underwater excavations.

• Low-pressure system

Designed for smaller hammers and pulverizers, the technology involves inserting a vaporizing plate with four nozzles [4], where the mounting bracket is attached, which enables it to cover the whole working area (whatever position it is in) and reduce the amount of dust produced, even on windy days. The new system only needs a low-pressure water supply and the sprayers turn on automatically only when the attachment is in action, thus also reducing water consumption.

Anti-Grease and Anti-Dust System

This system, which is crucial when working in dusty environments and when tunnelling, is made up of two collars. Both are adherent to the tool [5], and which prevent dust from getting in and grease from getting out, improving lubrication levels and thus lengthening the working life of the main hammer components.

Indeco Lube automatic greasing systems

Among the most important accessories on hydraulic hammers, automatic greasing systems developed exclusively for Indeco by Bekalube technical staff are designed to keep hammers in perfect working order, by using just the right amount of lubricant and cutting out the down times needed for the operator to carry out manual greasing.

There are two types of greasing unit – either an on-board system that can be fitted directly onto the hammer and which uses a cartridge pump, or else an excavator-mounted unit with its own grease tank [6]. In both cases, these systems are connected to the hammer through a single centralized greasing point [7], which enables the lubricant to reach all of the bushings and the moving parts at the tool, inside the hammers and on the retaining axle.

On-Board greasing systems

- **“Small”** Single-shot cartridge pump with only one hydraulic line [8], which accepts a single 250 or 400 g cartridge – for hammers from the HP 200 to the HP 1800
- **“Compact”** Pump with two hydraulic lines, which accepts a single 400 g cartridge [9] – for hammers from the HP 2000 to the HP 7000
- **“Maxi”** cPump with two hydraulic lines, which accepts a dual 400 g + 400 g cartridge [10] – for hammers from the HP 9000 to the HP 18000

Carrier-mounted systems

- Five-litre hydraulically or electrically-operated tank
- 18/20 kg hydraulically or electrically-operated drum immersion pump

Special Indeco Sirio lubricant

It is vital that a specific lubricant be used, to ensure the durability of the main components of the hammer. Indeco's [11] Sirio HBS grease, with solid additives is particularly resistant to oxidation, can withstand extreme pressures and temperatures and shows excellent adhesion and water-resistance.

Pins and bushings

[12] Designed to make it easier to mount all Indeco products onto the excavator boom, with or without a mounting bracket.

9 |



10 |



11 |



12 |



13 |



14 |



15 |



Mounting brackets

Each Indeco mounting bracket model [13] can be used with all Indeco products in the same class.

Folding mounting bracket

A special mounting bracket [14] for folding the hammer away directly under the carrier boom.

Connecting hoses

We recommend using original Indeco high- and low-pressure hoses [15] to connect various tools to the hydraulic system on the carrier.

The tools

Chisel tool

Suitable for all earthworking or narrow-section excavation jobs on medium to hard stratified rock.



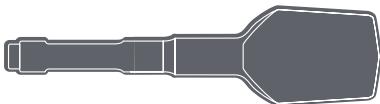
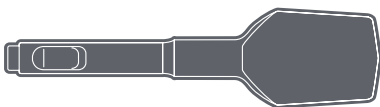
Moil point tool

Suitable for breaking up concrete, or medium-hard non-stratified rock. Secondary demolition: average, hard or extremely hard blocks.



Asphalt cutter / shovel tool

For cutting or breaking the road surface, breaking floors, walls, brick or tuff walls. Available in the in-line (asphalt cutter) and 90° transversal (shovel) versions according to the working direction.



Pile driver

Suitable for pilework or press-moulded supports for guardrails, etc.



Pyramidal point

Suitable for demolishing hard reinforced concrete flooring, as well as sedimentary material.



Cobra chisel tool

Suitable for all types of excavation work on medium-hard to hard rock, non-stratified rock or rock which tends to pulverise when being broken up, puddingstones.






Blunt tool

Suitable for breaking up blocks of any hardness, or to reduce the size of rubble.



Application areas

			L	M	S
 Mining and Quarry	Preliminary works	<ul style="list-style-type: none">• Overburden removal	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Bench, road & ramp leveling	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Roof, face & rib scaling	<input type="radio"/>	<input type="radio"/>	
	Secondary demolition	<ul style="list-style-type: none">• Boulder reduction in rock pile	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Removing blockages at crushing systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Demolition & renovation	Primary rock breaking	<ul style="list-style-type: none">• Selective rock breaking	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Blastfree mining	<input type="radio"/>		
	Light Demolition	<ul style="list-style-type: none">• Demolition of masonry structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Brickwork		<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Natural stone		<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Renovation of interiors			<input type="radio"/>
		<ul style="list-style-type: none">• Autoclaved aerated concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Demolition of non-reinforced concrete structures	<ul style="list-style-type: none">• Primary demolition of lightweight and standard concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Primary demolition of heavyweight concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Wall Elements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Secondary demolition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Composite steel & concrete structure demolition	<ul style="list-style-type: none">• Primary demolition of lightweight and standard reinforced concrete	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Primary demolition of heavyweight steel - reinforced concrete	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Secondary Demolition floors, slabs and beams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Separating rebars from pillars and struts			
		<ul style="list-style-type: none">• Fiber-reinforced concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Cutting rebars and steel reinforcements			
	Demolition of metallic buildings and structures	<ul style="list-style-type: none">• Demolition of refineries			
		<ul style="list-style-type: none">• Cutting of Metal and steel structures			
		<ul style="list-style-type: none">• Cutting steel girders/beams			
		<ul style="list-style-type: none">• Cutting reinforcements			
	Sorting and Loading	<ul style="list-style-type: none">• Sorting			
	<ul style="list-style-type: none">• Loading				
	<ul style="list-style-type: none">• Waste handling				
	<ul style="list-style-type: none">• Site clean-up				
	Pavement demolition	<ul style="list-style-type: none">• Asphalt	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Composite surfaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Earth Moving and Construction	Earth moving works	<ul style="list-style-type: none">• Trenching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Ground excavation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Floor leveling			
		<ul style="list-style-type: none">• Soil compaction			
		<ul style="list-style-type: none">• Trench compaction			
		<ul style="list-style-type: none">• Loading soil or bulk material			
	Foundation works	<ul style="list-style-type: none">• Building foundation excavation	<input type="radio"/>	<input type="radio"/>	
		<ul style="list-style-type: none">• Ground leveling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Building construction	<ul style="list-style-type: none">• Foundation pile driving		<input type="radio"/>	<input type="radio"/>
		<ul style="list-style-type: none">• Compaction around pillars			

L| Large hammers

M| Medium hammers


S| Small hammers



Infrastructures



Metallurgical industry



Agriculture and Forestry

		L	M	S
Tunnelling	• Tunnel excavation	○	○	○
	• Roof, face & rib scaling	○	○	○
Underwater application	• Dredging	○	○	○
	• Dock deepening & extension	○	○	○
	• Canal deepening & extension	○	○	○
	• Loading soil or bulk material			
	• Handling rock or breakwaters			
Trenching	• Oil & gas, water & sewage (deep trenching)	○	○	○
	• Trenching		○	○
	• Trench soil compaction		○	○
Road construction	• Pile driving and guard rail driving		○	○
	• Asphalt repair			
	• Maintenance work (driveways, sidewalks and parking lots)			
	• Block paving			
Slag recycling	• Boulder reduction in slag heaps	○	○	
	• Removing blockages at crushing systems	○	○	○
Cleaning & debricking	• Ladles	○	○	○
	• Converter mouths	○	○	○
	• Kilns	○	○	○
Gardening & Landscaping	• Fencing	○	○	○
	• Ground excavation	○	○	○
	• Rock breaking	○	○	○
	• Pit planting	○	○	○
	• Stump splitting	○	○	○
	• Golf course maintenance			
	• Root and stump grinding			
	• Hedgerow clearance and rejuvenation			
	• Grinding of logging residues			
Forestry	• Timber log handling			
	• Maintenance of green area, small trees and brush			
	• Creation and upkeep of woodland corridors and firebreaks			
	• Tree clearing			
	• Vegetation clearing			
	• Branch clearing			

L| Large hammers

M| Medium hammers

S| Small hammers



The full range of Indeco hammers

Hammer		Weight		Hammer		Weight	
HP	100	59	Kg	HP	2000	1200	Kg
HP	150	80	Kg	HP	2500	1500	Kg
HP	150 Heavy Duty	98	Kg	HP	2750	1690	Kg
HP	200	160	Kg	HP	3000	1900	Kg
HP	400	230	Kg	HP	3500	2200	Kg
HP	550	320	Kg	HP	4000	2500	Kg
HP	600	390	Kg	HP	5000	3150	Kg
HP	700	440	Kg	HP	6000	3600	Kg
HP	900	550	Kg	HP	7000	4000	Kg
HP	1200	650	Kg	HP	9000	5000	Kg
HP	1500	850	Kg	HP	12000	7800	Kg
HP	1800	1000	Kg	HP	18000 Plus	11050	Kg



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