

Hydraulic hammers

HP Series



Application areas

Preliminary works Overburden removal O O O	0 0 0 0 0 0 0 0 0 0
Bench, road & ramp leveling	0 0 0 0 0
Roof, face & rib scaling	0 0 0 0 0
Secondary demolition Boulder reduction in rock pile O O O O O O O O O O O O O O O O O O	0 0 0 0 0
Removing blockages at crushing systems O O O O O O O O O O O O O O O O O O	0 0 0 0 0
Primary rock breaking Selective rock breaking Selective rock breaking Demolition of masonry structures Brickwork Natural stone Renovation of interiors Autoclaved aerated concrete structures Primary demolition of lightweight and standard reinforced concrete structure demolition Composite steel & concrete structure demolition Primary demolition of lightweight and standard reinforced concrete Primary demolition of lightweight and standard reinforced concrete Primary demolition Primary demolition O Primary demolition of lightweight and standard reinforced concrete Primary demolition O Demolition of metallic buildings and structures Light Demolition Demolition of metallic buildings and structures Secondary demolition of refineries Cutting of Metal and steel structures Cutting of Metal and steel structures Cutting steel girders/beams	0 0 0 0 0
Blastfree mining	0 0 0 0
Blastfree mining	0 0 0 0
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Cutting steel girders/beams	
Sorting and Loading • Sorting	
• Loading	
Waste handling	
• Site clean-up	
Pavement demolition • Asphalt O O	0
• Concrete	0
• Composite surfaces OOO	0
Earth moving works • Trenching	0_
• Ground excavation	0_
• Floor leveling	
• Soil compaction	
Earth Moving and • Trench compaction	
Construction • Loading soil or bulk material	
Foundation works • Building foundation excavation O	
• Ground leveling	
Building construction • Foundation pile driving	0
Compaction around pillars	0

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	Tunnelling	Tunnel excavation	10	0	0
		Roof, face & rib scaling	0	0	0
	Underwater application	Dredging	0	0	0
~~~~~~		Dock deepening & extension	0	0	0
Infrastructures		Canal deepening & extension	0	0	0
iiiiastiactaics		Loading soil or bulk material			
		Handling rock or breakwaters			
	Trenching	Oil & gas, water & sewage	0	0	
		(deep trenching)	10		0
		Trenching		0	0
		Trench soil compaction		0	0
	Road construction	Pile driving and guard rail driving		0	0
		Asphalt repair			
		Maintenance work (driveways, sidewalks and			
		parking lots)			
		Block paving			
	Slag recycling	Boulder reduction in slag heaps	0	0	
		Removing blockages	0	0	0
		at crushing systems			
	Cleaning & debricking	• Ladles	0	0	0
Metallurgical 		Converter mouths	0	0	0
industry		• Kilns	0	0	0
	Gardening & Landscaping	Fencing	0	0	0
		Ground excavation	0	0	0
333		Rock breaking	0	0	0
		• Pit planting	0	0	0
Agriculture		Log splitting	0	0	0
and forestry	Forestry	• Timber log handling			

L| large hammers

M midi hammers

S small hammers

## 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.

#### mini 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.

#### midi 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.

#### maxi 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.

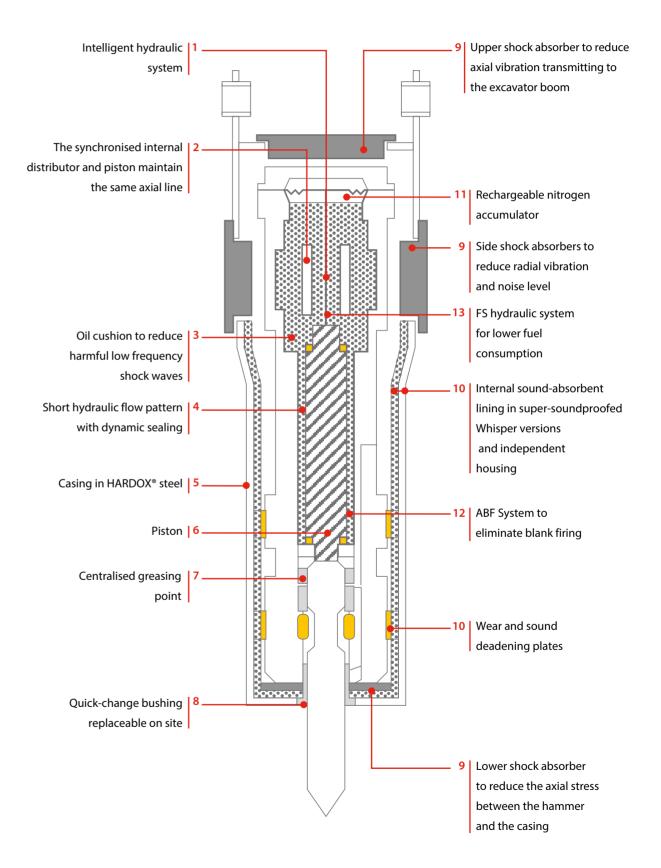
By lowering pressure peaks, the rechargeable hydraulic/nitrogen accumulator [11] also reduces stress in the excavator hydraulic circuit, keeps the gas charge and energy per blow constant, and reduces maintenance and operating costs.

The ABF (Anti Blank Firing) system [12], installed as standard on all of the midi- and maxi-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 150 FS / HP 150 FS Heavy Duty	HP 200 FS
Type of carrier	1 2	1 2
Excavator weight (possible)	0,7 ÷ 3 tons	1,4 ÷ 5 tons
Weight of hammer when operated	80 / 98 Kg (Heavy Duty)	P.B. 130 Kg / W.T.P. 160 Kg*
Steel diameter	45 mm	48 mm
Pressure adjusted to the excavator	160 bars	160 bars
Back pressure max	11 bars	11 bars
Energy class per blow	230 joule	300 joule
Number of blows per minute	540 ÷ 2040 n/min	700 ÷ 1800 n/min

Carrier key

















HP 350 FS	HP 500 FS	HP 600 FS	HP 700 FS	HP 900 FS
1 2 3	1 2 3	1 2 3	1 3	1 3
1,7 ÷ 6,5 tons	3 ÷ 8 tons	3,5 ÷ 10,5 tons	4 ÷ 12 tons	5 ÷ 14 tons
P.B. 210 Kg / W.T.P. 230 Kg*	P.B. 300 Kg / W.T.P. 320 Kg*	P.B. 340 Kg / W.T.P. 390 Kg*	440 Kg	550 Kg
56 mm	65 mm	75 mm	80 mm	90 mm
160 bars	160 bars	170 bars	170 bars	170 bars
12 bars	12 bars	11 bars	12 bars	11 bars
500 joule	700 joule	850 joule	950 joule	1200 joule
540 ÷ 1540 n/min	780 ÷ 1620 n/min	600 ÷1340 n/min	620 ÷ 1500 n/min	570 ÷ 1180 n/min

*P.B. pins and bushings version - W.T.P. soundproofed top plate Whisper version

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.

## Midi 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	1 3 4	4 5	4 5
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	450 ÷ 980 n/min	450 ÷ 1000 n/min	440 ÷ 1060 n/min

Carrier key















HP 2000 FS	HP 2500 FS	HP 2750 FS	HP 3000 FS
4 5	4 5	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 7000 FS
Type of carrier	5	5	5	5
Excavator weight (possible)	21 ÷ 38 tons	23 ÷ 42 tons	27 ÷ 50 tons	32 ÷ 63 tons
Weight of hammer when operated	2200 Kg	2500 Kg	3150 Kg	4000 Kg
Steel diameter	145 mm	150 mm	160 mm	180 mm
Pressure adjusted to the excavator	210 bars	210 bars	210 bars	210 bars
Back pressure max	7 bars	8 bars	7 bars	8,5 bars
Energy class per blow	5200 joule	6200 joule	8000 joule	10500 joule
Number of blows per minute	370 ÷ 760 n/min	340 ÷ 820 n/min	300 ÷ 670 n/min	320 ÷ 580 n/min

Carrier key











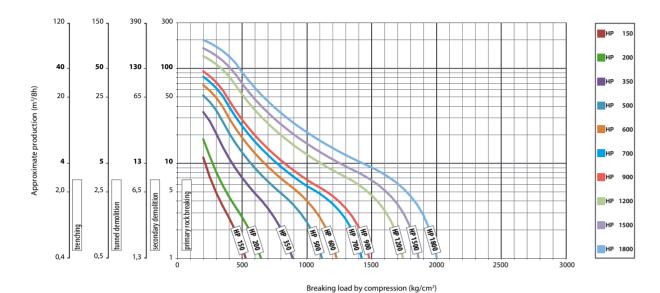


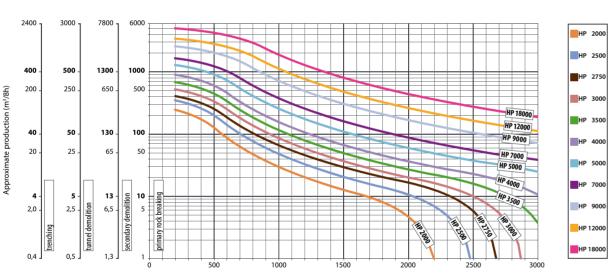
HP 9000 FS	HP 12000 FS	HP 18000 FS
5	5	5
39 ÷ 80 tons	45 ÷ 120 tons	60 ÷ 140 tons
5000 Kg	7800 Kg	11050 Kg
195 mm	215 mm	250 mm
210 bars	230 bars	230 bars
8 bars	9 bars	11 bars
15000 joule	20000 joule	25000 joule
270 ÷ 540 n/min	240 ÷ 550 n/min	240 ÷ 460 n/min

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**





Breaking load by compression (kg/cm²)

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

### **Noise levels**

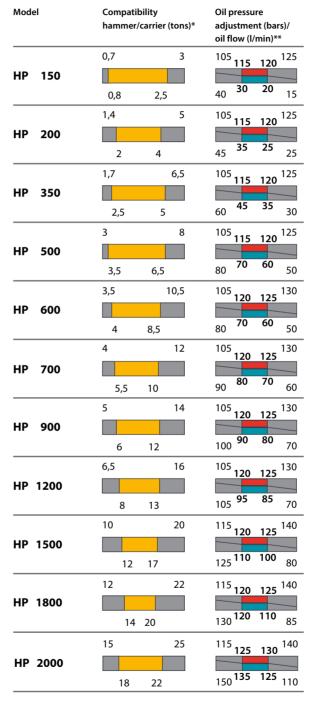
#### Noise levels measured* at various distances

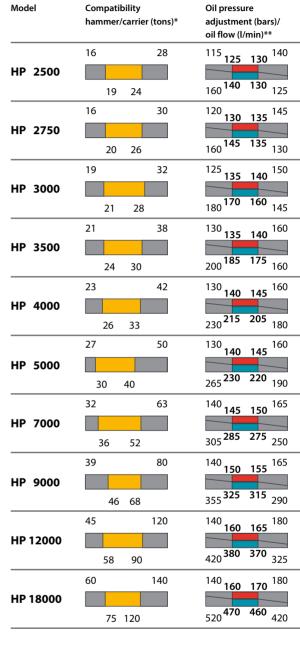
Distance	10 m	15 m	20 m	25 m	30 m
HP model	96	92,5	90	88,1	86,5
HP Whisper model	93	89,5	87	85,1	83,5

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

HP model	126	
HP Whisper model	123	

# Parameters for selecting and adjusting the hammer





*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 (I/min):

Optimum pressure adjusted to the hammer (in bars)

Optimal oil supply (I/min)

Possible pressure/oil

### **Accessories**

#### **IDA (Indeco Dust Abatement) System**

An innovative system that is particularly effective for reducing wear and tear on components, and for extending the working life of the hammer. 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:

#### Dust Abatement Kit

A jet of high-pressure water spray, emitted by three nozzles 1 connected with the outer casing of the hammer, prevents dust from damaging both the tool and the operator.

#### Dust shield for tunnelling work and underwater applications

The internal pressurization of the hammer |2| prevents dust, water and debris from getting into the hammer through the bushing, as happens during tunnel demolitions and underwater excavations.

#### **Anti-Grease and Anti-Dust System**

This system, which is crucial when working in dusty environments and when tunnelling, is made up of two clamps, which are both attached to the tool 3 but are located in different positions, 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 Lub System Kit**

This system has a dual function - to optimise grease consumption and to make it unnecessary for the operator to stop work to grease the moving parts. The kit includes a pumping unit pack 4, tubing and connections |5| to the hammer.





6



2 |

3 |





7





8



9



We recommend using original Indeco high- and low-pressure hoses [10] to connect various tools to the hydraulic system on the carrier.

The grease point is centralised and feeds all of the

bushings and the moving parts at the tool, inside

the hammer and on the retaining axle. To make it

easier for rental organisations, this system which is

usually placed in the carrier, can also be completely

It is vital that a specific lubricant be used, to ensure

the durability of the main components of the

hammer. Indeco's 6 Sirio HBS grease, with solid

additives is particularly resistant to oxidation, can withstand extreme pressures and temperatures and

shows excellent adhesion and water-resistance.

7 Designed to make it easier to mount all Indeco

Each Indeco mounting bracket model |8| can be

used with all Indeco products in the same class.

A special mounting bracket |9| for folding the

hammer away directly under the carrier boom.

products onto the excavator boom, with or without

mounted onto the hammer.

Pins and bushings

a mounting bracket.

Mounting brackets

**Connecting hoses** 

Folding mounting bracket

**Special Indeco Sirio lubricant** 



| 10





### 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**

Suitable for cutting asphalt, breaking up flooring, as well as brick or sandstone walls.



#### 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.





#### The full range of Indeco hammers

Ha	ammer	Wei	ght	Hammer	Weig	ht
НР	150	80	Kg	HP 2000	1200	Kg
HP	150 Heavy Duty	98	Kg	HP 2500	1500	Kg
HP	200	160	Kg	HP 2750	1690	Kg
HP	350	230	Kg	HP 3000	1900	Kg
HP	500	320	Kg	HP 3500	2200	Kg
HP	600	390	Kg	HP 4000	2500	Kg
HP	700	440	Kg	HP 5000	3150	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	11050	Kg

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