

Compactors

IHC - Fixed

IHC R - Rotating

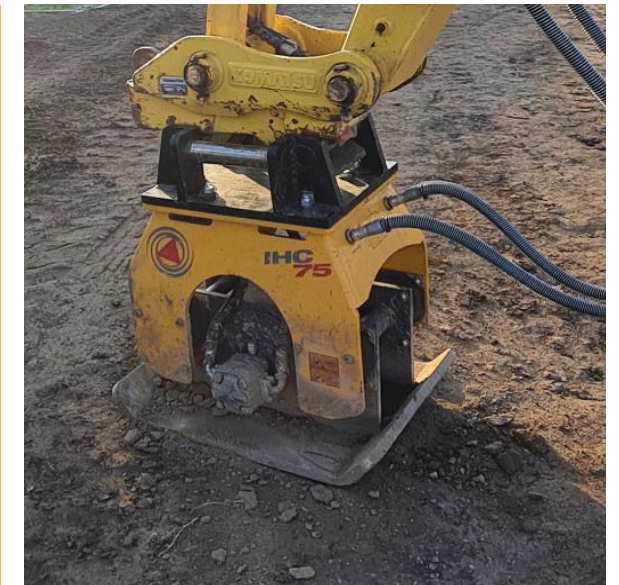




IHC and IHC R compactors

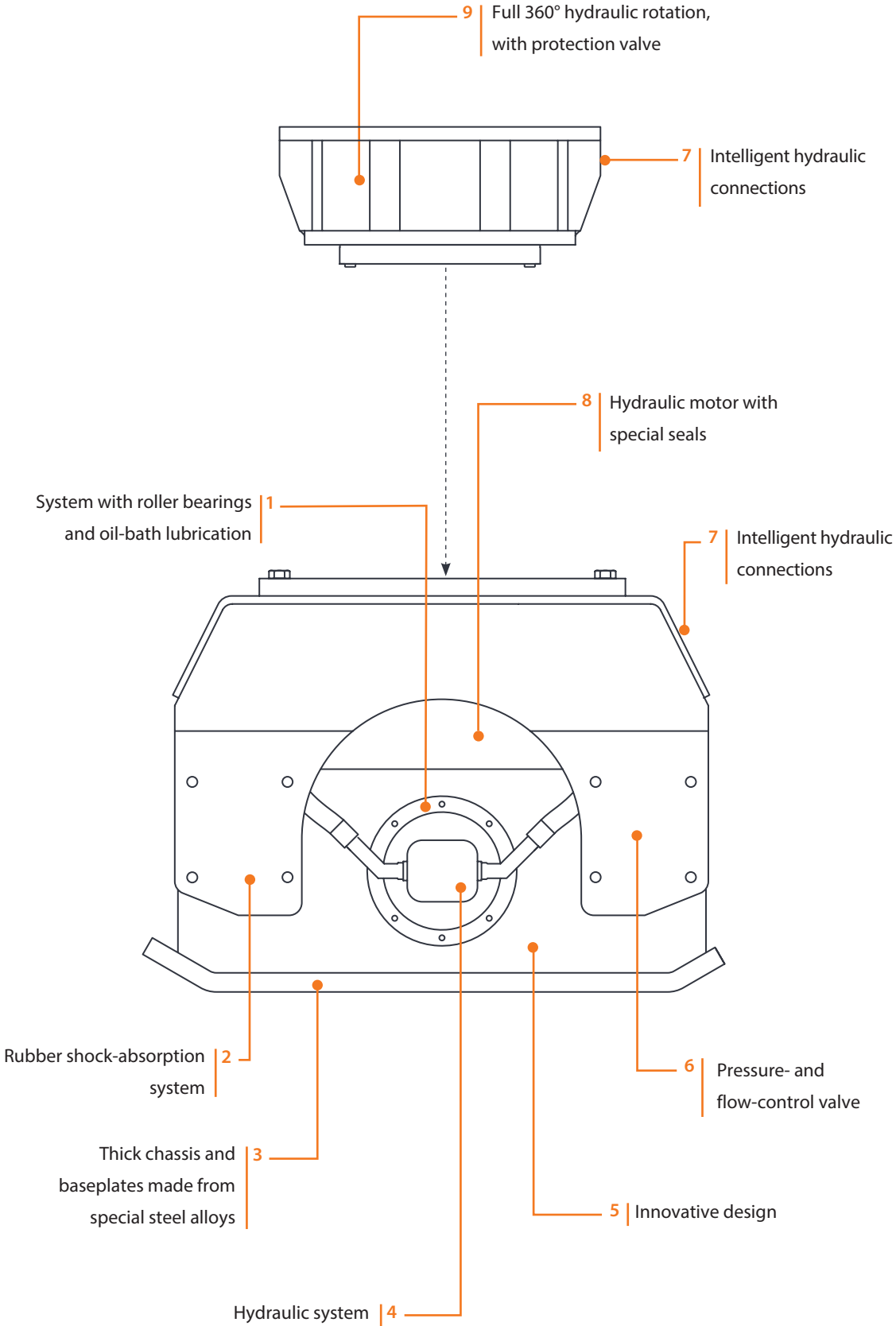
Indeco IHC compactors combine high compaction with fast turnaround times. They are a very efficient replacement both for traditional risky and tiring manual equipment and for self-propelled rollers, which are at great risk of rollover during slope applications.

Compaction is achieved by applying both the dynamic force of a hydraulically-driven vibration system and the static weight of the carrier boom to the thick steel baseplate of the compactor. Of course, the dynamic forces have to be powerful enough to vibrate the steel baseplate. To enable this to happen, Indeco compactors (mounted straight onto the carrier boom) are hydraulically driven with an oil-bath bearing system, which gives a balanced design of compaction force and vibration speed, so as to achieve the depth penetration needed to reduce air voids and move more material faster. Indeco's fixed or rotating IHC hydraulic compactors offer superior efficiency and versatility compared with other products on the market. Being fitted with the same mounting bracket as other Indeco hydraulic equipment makes it easy to switch from one tool to another at the jobsite. Using just the carrier's hydraulic circuit, they are ideal for compacting backfill for trenches, as well as embankments or other steep slope applications, around foundations or close to other obstacles. Perfect for working on grainy, cohesive and semi-cohesive soils, optional adapters on the vibratory plate turn them into highly efficient pile-driving tools. Indeco's rotating compaction plate, the IHC R, makes it much easier to position the excavator at the right angle to the working surface, especially for jobs in narrow pipe trenches and confined areas, where the compaction plate needs to reach into difficult corners or skirt round manholes and other obstacles.



Features of Indeco compactors

Robust, versatile and highly productive, IHC compactors have a number of special features created by the technology researchers at Indeco. The system uses oil-bath bearings **[1]**, ensuring maximum reliability, low maintenance costs and high performance, even on the toughest of jobs. The rubber shock-absorber system **[2]** is designed to direct the whole force down into the material to be compacted, thus isolating vibrations from the carrier and the operator. The thick chassis and baseplates **[3]** are made from extra-strength steel alloys which means no flexing or other buckling that could affect performance. The hydraulic system **[4]** balances force and speed to ensure that the eccentric weights can achieve depth penetration and reduce air voids. The compactor has been specially designed **[5]** to work up close to trench walls, foundations, guard rails and other obstacles, along the whole width and length of the job. The pressure- and flow-control valve **[6]** provides safer quicker installation, ensuring that incorrect set-ups cannot affect the long-term reliability of the compactor. The hydraulic connections **[7]** are located in a practical and functional area in the rear of the compactor. They run parallel with the carrier hoses, which protects them from accidental breakage, especially in deep narrow pipe trenches. The motor **[8]**, with its special high-pressure seals, can withstand backpressure without the need for a drain line. Full 360° hydraulic rotation **[9]** optimizes the position of the vibratory plate under any working conditions, moving more material faster.





Technical Data	IHC 50			IHC 70			IHC 75					
Type of carrier	1 3			1 3			1 3					
Excavator weight	1,7 ÷ 8 ton			3,5 ÷ 13 ton			4 ÷ 14 ton					
Equipment weight*	200 Kg			445 Kg			485 Kg					
Height	56 cm			60 cm			60 cm					
Baseplate size	30,5 x 76 cm			46 x 84 cm			64 x 87 cm					
Centrifugal force	3000 Kg 29,5 KN			4000 Kg 39 KN			4000 Kg 39 KN					
Compacting force Min - Med - Max	0,8 7,8	1,2 11,8	1,7 16,7	Kg/cm ² N/cm ²	0,9 8,8	1,1 10,8	1,4 13,7	Kg/cm ² N/cm ²	0,7 6,9	0,9 8,8	1,1 10,8	Kg/cm ² N/cm ²
Frequency Min - Med - Max	 2000 2500 3000 rpm			 1600 1850 2100 rpm			 1600 1850 2100 rpm					
	33	42	50	hz	27	31	35	hz	27	31	35	hz
Oil flow to motor	45 ÷ 70 l/min			55 ÷ 75 l/min			55 ÷ 75 l/min					
Maximum working pressure adjusted to the excavator	240 bar			200 bar			200 bar					
Maximum backpressure	7 bar			21 bar			21 bar					
Compatibility of attachment plate with mounting bracket	HP 400			HP 900			HP 900					

*The operating weight of the equipment includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.

Carrier key



Technical Data	IHC 150			IHC 250				
Type of carrier	4 5			4 5				
Excavator weight	8 ÷ 22 ton			15 ÷ 45 ton				
Equipment weight*	970 Kg			1280 Kg				
Height	79 cm			80 cm				
Baseplate size	71 x 120 cm			90 x 122 cm				
Centrifugal force	10000 Kg 98 KN			17000 Kg 167 KN				
Compacting force Min - Med - Max	1,4 13,7	1,6 15,7	1,8 17,7	Kg/cm² N/cm²	1,3 12,8	1,7 16,7	2,2 21,6	Kg/cm² N/cm²
Frequency Min - Med - Max	 1800 1950 2100 rpm 30 33 35 hz			 1800 2100 2400 rpm 30 35 40 hz				
Oil flow to motor	100 ÷ 120 l/min			190 ÷ 265 l/min				
Maximum working pressure adjusted to the excavator	200 bar			170 bar				
Maximum backpressure	21 bar			7 bar				
Compatibility of attachment plate with mounting bracket	HP 1500 - HP 1800			HP 2000 - HP 2500 HP 3000 ÷ HP 4000				

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.

Compatibility

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





Technical Data	IHC R 50	IHC R 70	IHC R 75
Type of carrier	13	134	134
Excavator weight	3,5 ÷ 13 ton	6,5 ÷ 16 ton	7 ÷ 16 ton
Equipment weight*	425 Kg	630 Kg	670 Kg
Height	88 cm	93 cm	93 cm
Baseplate size	30,5 x 76 cm	46 x 84 cm	64 x 87 cm
Centrifugal force	3000 Kg 29,5 KN	4000 Kg 39 KN	4000 Kg 39 KN
Compacting force Min - Med - Max	0,8 1,2 1,7 Kg/cm² 7,8 11,8 16,7 N/cm² 	0,9 1,1 1,4 Kg/cm² 8,8 10,8 13,7 N/cm² 	0,7 0,9 1,1 Kg/cm² 6,9 8,8 10,8 N/cm² 
Frequency Min - Med - Max	2000 2500 3000 rpm 33 42 50 hz	1600 1850 2100 rpm 27 31 35 hz	1600 1850 2100 rpm 27 31 35 hz
Oil flow to motor	45 ÷ 70 l/min	55 ÷ 75 l/min	55 ÷ 75 l/min
Maximum working pressure adjusted to the excavator	240 bar	200 bar	200 bar
Maximum backpressure	7 bar	21 bar	21 bar
Oil delivery for rotation	10 l/min	10 l/min	10 l/min
Pressure regulated for rotation	90 bar	90 bar	90 bar
Compatibility of attachment plate with mounting bracket	HP 900	HP 900	HP 900

*The operating weight of the equipment includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.

Carrier key

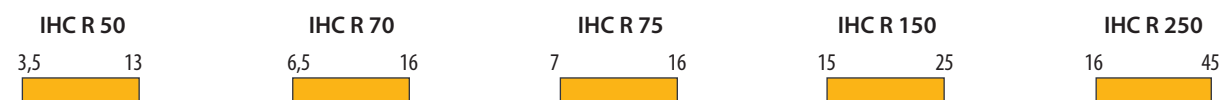


Technical Data	IHC R 150	IHC R 250
Type of carrier	45	45
Excavator weight	15 ÷ 25 ton	16 ÷ 45 ton
Equipment weight*	1185 Kg	1520 Kg
Height	108 cm	110 cm
Baseplate size	71 x 120 cm	90 x 122 cm
Centrifugal force	10000 Kg 98 KN	17000 Kg 167 KN
Compacting force Min - Med - Max	1,4 1,6 1,8 Kg/cm² 13,7 15,7 17,7 N/cm² 	1,3 1,7 2,2 Kg/cm² 12,8 16,7 21,6 N/cm² 
Frequency Min - Med - Max	1800 1950 2100 rpm 30 33 35 hz	1800 2100 2400 rpm 30 35 40 hz
Oil flow to motor	100 ÷ 120 l/min	190 ÷ 265 l/min
Maximum working pressure adjusted to the excavator	200 bar	170 bar
Maximum backpressure	21 bar	7 bar
Oil delivery for rotation	10 l/min	10 l/min
Pressure regulated for rotation	90 bar	90 bar
Compatibility of attachment plate with mounting bracket	HP 2000 - HP 2500	HP 2000 - HP 2500

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Compatibility

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



Accessories

1 | 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' 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.

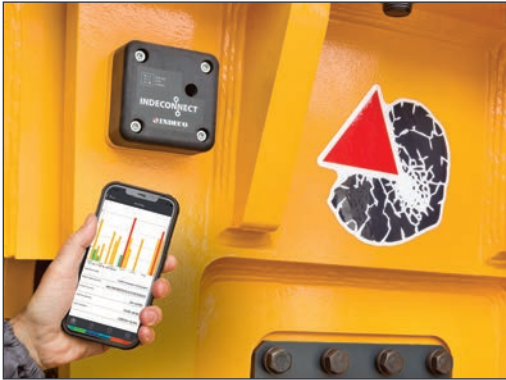
2 | Backfill blade

A useful optional, mounted on the compactor, for smoothing and levelling the earth to be compacted, without needing to switch from compactor to bucket.

3 | Adaptable and removable plates

bolt-in on the standard vibratory plate, produced on request and customisable in width and depth to compact narrow ditches and ground of a specific size.

1 |



2 |



3 |



Application areas

		IHC	IHC R
 Earth Moving and Construction	Earth moving works	• Trenching • Ground excavation • Floor leveling • Soil compaction • Trench compaction • Loading soil or bulk material	○ ○ ○ ○ ○
	Foundation works	• Building foundation excavation • Ground leveling	
	Building construction	• Foundation pile driving • Compaction around pillars	○ ○
	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	○ ○
 Infrastructures	Road construction	• Pile driving and guard rail driving • Asphalt repair • Maintenance work (driveways, sidewalks and parking lots) • Block paving	○ ○ ○ ○
	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	
 Agriculture and Forestry			

The complete range of Indeco products

CarucioChurazzi

Products	Weight/Length
HP Hydraulic hammers	from 59 to 11050 Kg
IFP fixed pulverisers	from 750 to 4550 Kg
IRP rotating pulverisers	from 570 to 4500 Kg
IMP Multiprocessor	from 1500 to 4900 Kg
IMP Mutiprocessor Car Dismantler	1500 Kg
IDC Primary Demolition Crusher	7200 Kg
IHC fixed compactors	from 200 to 1280 Kg
IHC R rotating compactors	from 425 to 1520 Kg
IMG S-D-H-L-T Multi Grabs	from 285 to 2990 Kg
ISS Shears	from 480 to 11000 Kg
IRC rail cutters	from 4200 to 4300 Kg
IMH Mulching Heads	from 385 to 1930 Kg
IBS boom systems	from 3,3 to 14,3 m*

*Lengths can be customised on the basis of the customer's needs.



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