# Compactors

## IHC - Fixed
## IHC R - Rotating

INDECO
A TOOL FOR EVERY JOB

# 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.

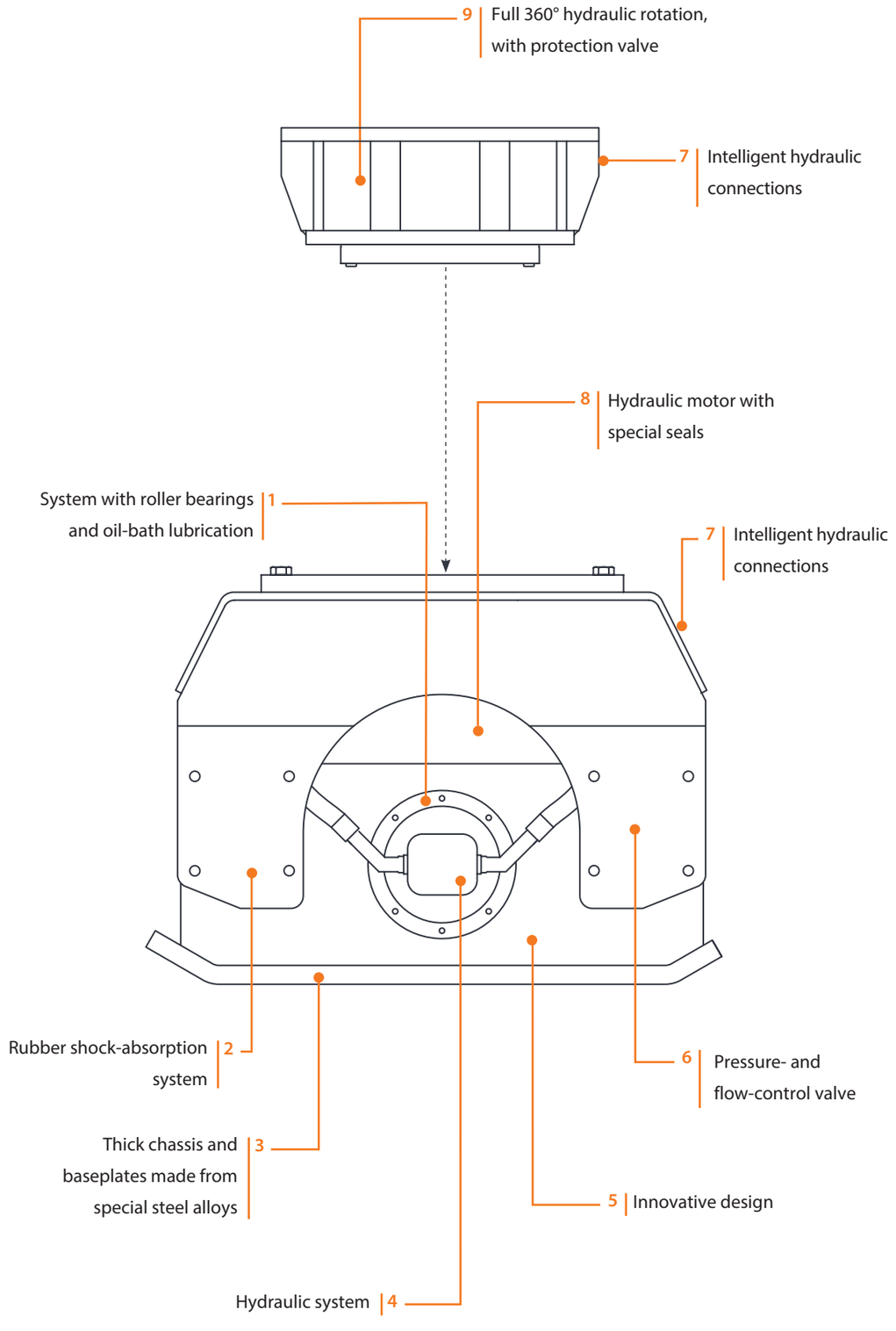
Of course, the dynamic forces have to be powerful enough to vibrate the steel baseplate. To enable this to happen, Indeco compactors (mounted straight onto the carrier boom) are hydraulically driven with an oil-bath bearing system, which gives a balanced design of compaction force and vibration speed, 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<br>29,5 KN | 4000 Kg<br>39 KN | 4000 Kg<br>39 KN |
| Compacting force<br>Min - Med - Max | 0,8 1,2 1,7 Kg/cm²<br>7,8 11,8 16,7 N/cm² | 0,9 1,1 1,4 Kg/cm²<br>8,8 10,8 13,7 N/cm² | 0,7 0,9 1,1 Kg/cm²<br>6,9 8,8 10,8 N/cm² |
| Frequency<br>Min - Med - Max | 2000 2500 3000 rpm<br>33 42 50 hz | 1600 1850 2100 rpm<br>27 31 35 hz | 1600 1850 2100 rpm<br>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.

| 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<br>98 KN | 17000 Kg<br>167 KN |
| Compacting force<br>Min - Med - Max | 1,4 1,6 1,8 Kg/cm²<br>13,7 15,7 17,7 N/cm² | 1,3 1,7 2,2 Kg/cm²<br>12,8 16,7 21,6 N/cm² |
| Frequency<br>Min - Med - Max | 1800 1950 2100 rpm<br>30 33 35 hz | 1800 2100 2400 rpm<br>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<br>HP 3000 ÷ HP 4000 |

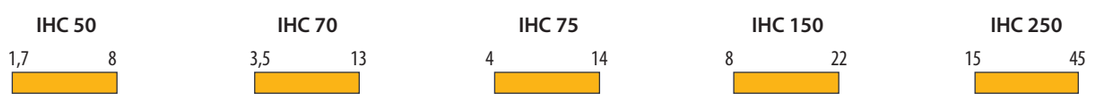
The information in this catalog is subject to change without notice and without any obligation or responsibility on our part. The content of this catalog is provided as a courtesy to readers and constitutes non binding information only.

**Carrier key**


Compact excavator | Miniloader | Backhoe loader | Wheeled excavator | Tracked excavator

## 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 | 1 3 | 1 3 4 | 1 3 4 |
| 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<br>29,5 KN | 4000 Kg<br>39 KN | 4000 Kg<br>39 KN |
| Compacting force<br>Min - Med - Max | 0,8 1,2 1,7 Kg/cm²<br>7,8 11,8 16,7 N/cm² | 0,9 1,1 1,4 Kg/cm²<br>8,8 10,8 13,7 N/cm² | 0,7 0,9 1,1 Kg/cm²<br>6,9 8,8 10,8 N/cm² |
| Frequency<br>Min - Med - Max | 2000 2500 3000 rpm<br>33 42 50 hz | 1600 1850 2100 rpm<br>27 31 35 hz | 1600 1850 2100 rpm<br>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**

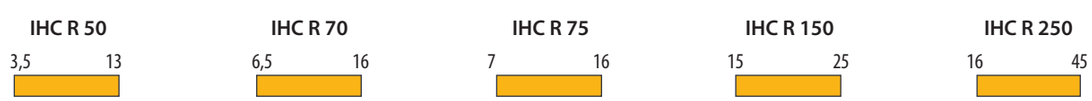

Compact excavator | Miniloader | Backhoe loader | Wheeled excavator | Tracked excavator


| Technical Data | IHC R 150 | IHC R 250 |
|---|---|---|
| Type of carrier | 4 5 | 4 5 |
| 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<br>98 KN | 17000 Kg<br>167 KN |
| Compacting force<br>Min - Med - Max | 1,4 1,6 1,8 Kg/cm²<br>13,7 15,7 17,7 N/cm² | 1,3 1,7 2,2 Kg/cm²<br>12,8 16,7 21,6 N/cm² |
| Frequency<br>Min - Med - Max | 1800 1950 2100 rpm<br>30 33 35 hz | 1800 2100 2400 rpm<br>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 |

The information in this catalog is subject to change without notice and without any obligation or responsibility on our part. The content of this catalog is provided as a courtesy to readers and constitutes non binding information only.

## 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.

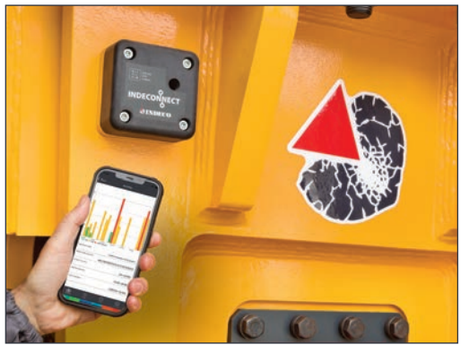
### 2 | Backfill blade

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 | ○ | ○ |
| Infrastructures | 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 | ○ | ○ |
| Agriculture and Forestry | 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 | | |

IHC| Fixed compactors  IHC R| Rotating compactors

## The complete range of Indeco products

| 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 |
| IDC Primary Demolition Crusher | from 900 to 7200 Kg |
| IMP Multiprocessor | from 1500 to 4900 Kg |
| IMP Mutiprocessor Car Dismantler | 1500 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.

EN

Quality Management
System Certification
UNI EN ISO 9001:2015

**INDECO IND S.p.A.**
V.le G. Lindemann, 10 - 70132 Bari Z.I. - Italy
**PH** +39 080 531 33 70 - **F** +39 080 537 79 76
@ info@indeco.it - www.indeco.it/en

Member of

AUTHORISED DEALER

26-04-G-C-EN-02-01