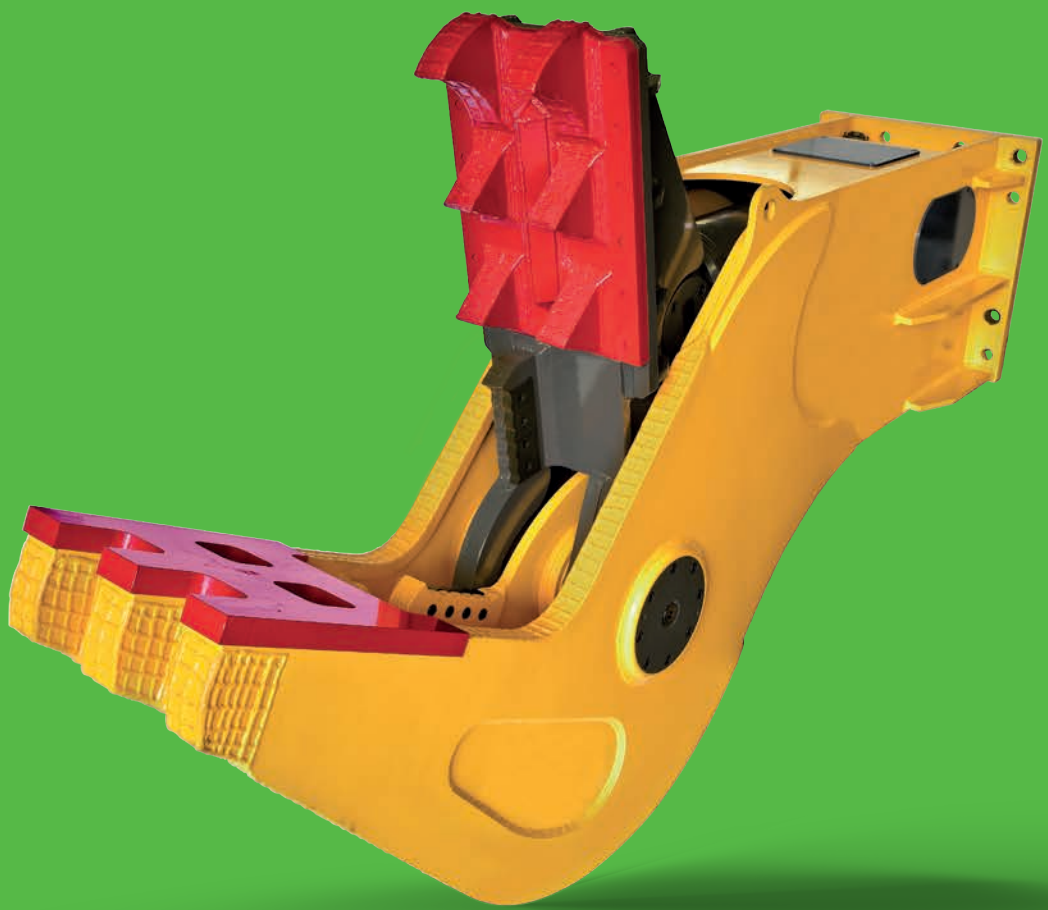
Pulverizers

IFP - Fixed
IRP - Rotating



INDECO
ATTACHMENT SOLUTIONS
a wipro hydraulics company

IFP fixed and IRP rotating pulverizers

Exploiting the best in Indeco's advanced technological know how, the Indeco IFP fixed and IRP rotating pulverizers were designed and created following the top quality guidelines already used in manufacturing our famous hydraulic breakers.
By using the latest technologically advanced materials, such as special extra-strength HARDOX® alloy steel, Indeco pulverizers are specifically designed to withstand high levels of pressure, wear and abrasion, and prolonged use regardless of jobsite conditions. IRP rotating pulverizers are perfect not only for the primary demolition of buildings, vertical structures, flooring, slabs and external walls. The IFP fixed versions are perfect for the secondary demolition of reinforced concrete materials and structures, and for recycling after separating the concrete from the steel rods.
The unique shape of Indeco pulverizers is a design feature created specifically to reduce the variation in the force required between the start (maximum opening) and the finish (minimum opening) so as to increase efficiency and continuity, and to reduce both working times and stress transmitted to the excavator. The hydraulic system is equipped with a "regeneration valve" which enables the mobile jaw to be closed more quickly under no-load conditions, in order to apply all of the force available only when pulverising material, thus increasing productivity.
Other key features which keep Indeco pulverizers efficient in the long term: the adjustability of the distance between the cutters located inside the jaws, so that steel rods inside reinforced concrete can be cut more efficiently; the 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.

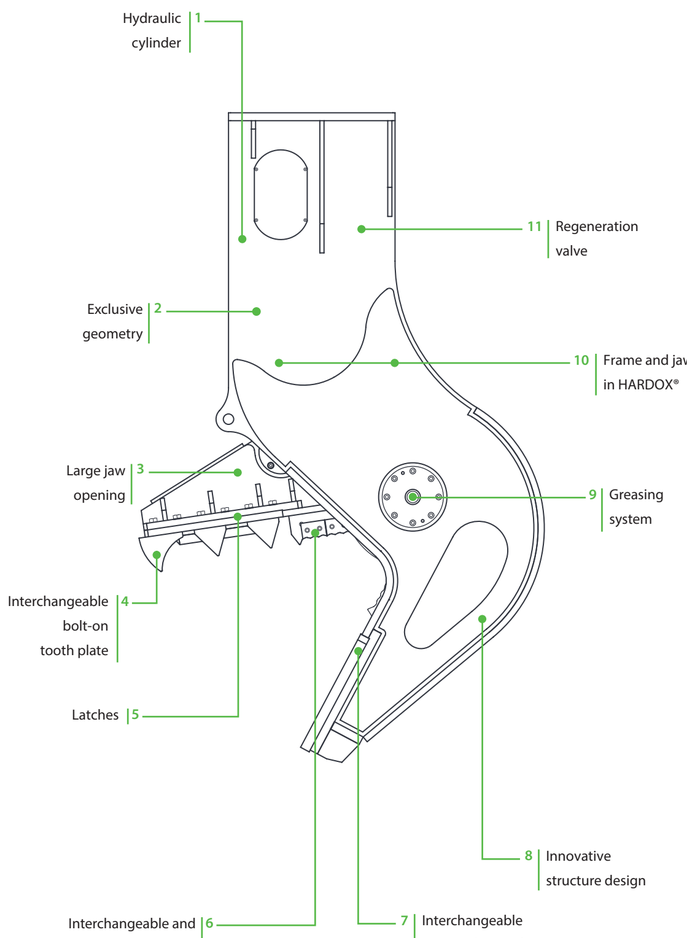




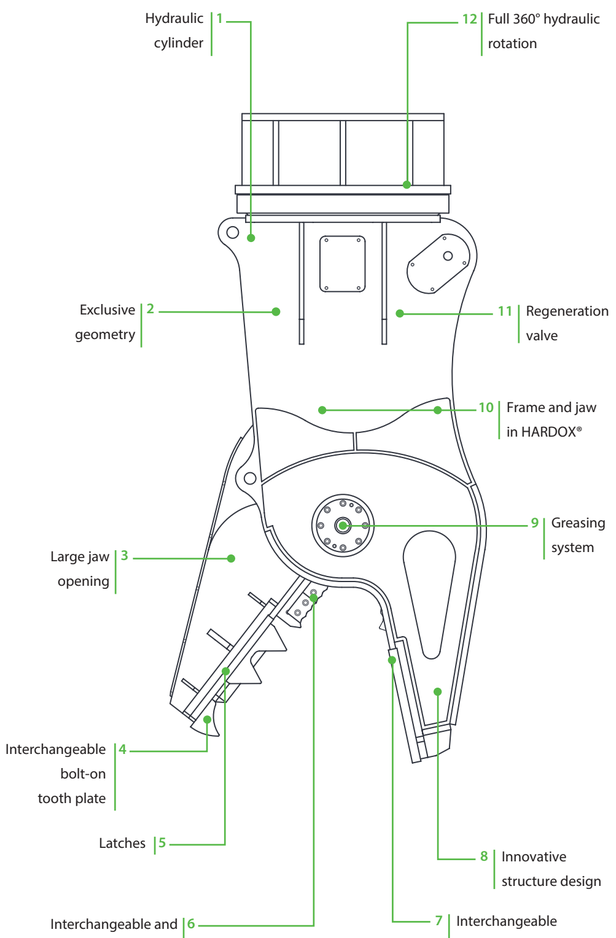
Features of Indeco pulverizers

The hydraulic cylinder |1| position protects the rod.
The exclusive geometry |2| guarantees maximum consistency of the pulverising force between the maximum and minimum opening of the jaws |3|.
The interchangeable teeth |4| are mounted on a bolt-on tooth plate, secured with special latches |5|.
The adjustability of the distance between the cutters |6| positioned inside the jaws makes it more efficient to cut reinforcing rods; the cutters are interchangeable and can be used on both sides.
The insertion of the interchangeable wear-resistant plate |7| also in the fixed jaw preserves the bearing structure of the pulveriser during heavy and prolonged use.
The structure is very rigid to prevent buckling; the innovative design |8| improves grip and makes the equipment easier to handle.
The centralised greasing system |9| improves the lubrication of moving mechanical parts.
The frame and jaw |10| are made of HARDOX®.
The regeneration valve |11| makes it so that the movable jaw closes faster under no-load conditions.
The full 360° hydraulic rotation |12| with protection valve ensures optimal grip of the material and a better demolition in all logistic conditions.

IFP fixed



IRP rotating









Technical Data	IFP 8 X	IFP 13 X	IFP 19 X
Type of carrier	1 4	1 4 5	4 5
Excavator weight	6 ÷ 18 ton	10 ÷ 21 ton	16 ÷ 30 ton
Attachment operating weight*	750 Kg	1300 Kg	1800 Kg
Max opening	650 mm	810 mm	900 mm
Height	1700 mm	1900 mm	2100 mm
Width	980 mm	1190 mm	1470 mm
Jaw width	345 mm	400 mm	450 mm
Oil delivery	80 ÷ 200 l/min	120 ÷ 200 l/min	140 ÷ 220 l/min
Maximum working pressure	350 bar	350 bar	350 bar
Maximum clamping force at tip	50 ton	65 ton	80 ton
Maximum clamping force at shears	160 ton	210 ton	265 ton
Shear length	100 mm	180 mm	240 mm
Max cutting diameter	40 mm	40 mm	45 mm
Min. closure time	2 s**	2 s**	3 s**
Min. opening time	1 s	1 s	1,5 s
Hydraulic connections	3/4"	3/4"	3/4"
Mounting bracket compatibility	HP 1200	HP 2000 - HP 2500	HP 3000 ÷ HP 4000

*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.

**Without regeneration valve.

Carrier key



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

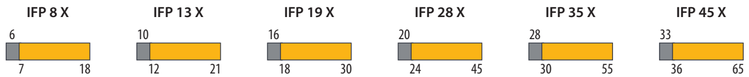


Technical Data	IFP 28 X	IFP 35 X	IFP 45 X
Type of carrier	4 5	5	5
Excavator weight	20 ÷ 45 ton	28 ÷ 55 ton	33 ÷ 65 ton
Attachment operating weight*	2800 Kg	3450 Kg	4550 Kg
Max opening	1000 mm	1190 mm	1290 mm
Height	2440 mm	2590 mm	3100 mm
Width	1540 mm	1630 mm	1900 mm
Jaw width	520 mm	560 mm	600 mm
Oil delivery	150 ÷ 250 l/min	180 ÷ 260 l/min	180 ÷ 300 l/min
Maximum working pressure	350 bar	350 bar	350 bar
Maximum clamping force at tip	105 ton	120 ton	150 ton
Maximum clamping force at shears	355 ton	380 ton	470 ton
Shear length	240 mm	240 mm	240 mm
Max cutting diameter	50 mm	50 mm	60 mm
Min. closure time	2 s	2,5 s	2,5 s
Min. opening time	2 s	2,5 s	2,5 s
Hydraulic connections	1"	1"	1"
Mounting bracket compatibility	HP 5000	HP 7000 - HP 9000	HP 7000 - HP 9000

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Compatibility

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



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







Technical Data	IRP 5 X	IRP 11 X	IRP 18 X	IRP 23 X
Type of carrier	1 4	1 4 5	4 5	4 5
Excavator weight	5 ÷ 12 ton	10 ÷ 25 ton	14 ÷ 30 ton	18 ÷ 36 ton
Attachment operating weight*	570 Kg	1150 Kg	1700 Kg	2300 Kg
Max opening	500 mm	660 mm	820 mm	900 mm
Height	1590 mm	1860 mm	2280 mm	2510 mm
Width	700 mm	1000 mm	1300 mm	1450 mm
Jaw width	295 mm	340 mm	410 mm	450 mm
Oil delivery	50 ÷ 120 l/min	80 ÷ 200 l/min	120 ÷ 200 l/min	140 ÷ 220 l/min
Maximum working pressure	300 bar / 220 bar**	350 bar	350 bar	350 bar
Maximum clamping force at tip	40 ton	50 ton	65 ton	80 ton
Maximum clamping force at shears	130 ton	170 ton	210 ton	265 ton
Shear length	80 mm	100 mm	180 mm	240 mm
Max cutting diameter	35 mm	40 mm	40 mm	45 mm
Min. closure time	1,5 s***	2 s***	2 s***	3 s***
Min. opening time	1 s	1 s	1 s	1,5 s
Hydraulic connections	1/2"	3/4"	3/4"	3/4"
Maximum rotation flow	10 l/min	20 l/min	25 l/min	25 l/min
Maximum rotation pressure	110 bar	110 bar	110 bar	110 bar
Hydraulic connections for rotation	3/8"	1/2"	1/2"	1/2"
Mounting bracket compatibility	HP 900	HP 1200	HP 2000 - HP 2500	HP 3000 ÷ HP 4000

Technical Data	IRP 29 X	IRP 36 X	IRP 45 X
Type of carrier	5	5	5
Excavator weight	25 ÷ 45 ton	30 ÷ 55 ton	38 ÷ 65 ton
Attachment operating weight*	2950 Kg	3600 Kg	4500 Kg
Max opening	960 mm	1050 mm	1150 mm
Height	2645 mm	2800 mm	3150 mm
Width	1470 mm	1480 mm	1650 mm
Jaw width	490 mm	520 mm	570 mm
Oil delivery	150 ÷ 250 l/min	150 ÷ 250 l/min	180 ÷ 300 l/min
Maximum working pressure	350 bar	350 bar	350 bar
Maximum clamping force at tip	95 ton	105 ton	120 ton
Maximum clamping force at shears	325 ton	355 ton	380 ton
Shear length	240 mm	240 mm	240 mm
Max cutting diameter	50 mm	50 mm	50 mm
Min. closure time	2 s	2 s	2,5 s
Min. opening time	2 s	2 s	2,5 s
Hydraulic connections	1"	1"	1"
Maximum rotation flow	30 l/min	30 l/min	30 l/min
Maximum rotation pressure	110 bar	110 bar	110 bar
Hydraulic connections for rotation	1/2"	1/2"	1/2"
Mounting bracket compatibility	HP 5000	HP 7000 - HP 9000	HP 7000 - HP 9000

*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.

**Low pressure version.

***Without regeneration valve.

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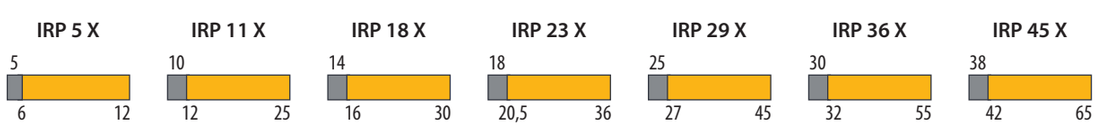
Carrier key



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

Compatibility

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



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

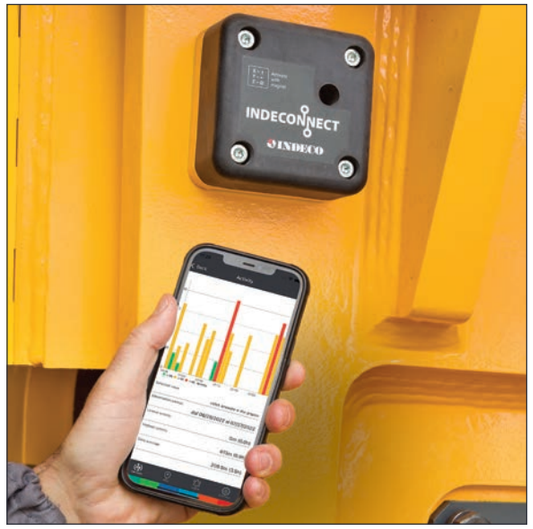
Accessories

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'** 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.



Application areas

			IFP	IRP
Demolition & renovation	**Light Demolition**	• Demolition of masonry structures	○	○
		• Brickwork	○	○
		• Natural stone	○	○
		• Renovation of interiors	○	○
		• Autoclaved aerated concrete	○	○
	Demolition of non-reinforced concrete structures	• Primary demolition of lightweight and standard concrete	○	○
		• Primary demolition of heavyweight concrete	○	○
		• Wall Elements	○	○
		• Secondary demolition	○	○
	Composite steel & concrete structure demolition	• Primary Demolition of Lightweight and Standard reinforced concrete	○	○
		• Primary demolition of heavyweight steel - reinforced concrete	○	○
		• Secondary Demolition floors, slabs and beams		○
		• Separating rebars from pillars and struts	○	○
		• Fiber-reinforced concrete	○	○
		• Cutting rebars and steel reinforcements	○	○
	Demolition of metallic buildings and structures	• Demolition of refineries		
		• Cutting of Metal and steel structures		
		• Cutting steel girders/beams		
		• Cutting reinforcements		
	Sorting and Loading	• Sorting		
		• Loading		
		• Waste handling		
		• Site clean-up		
	Pavement demolition	• Asphalt	○	○
		• Concrete	○	○
		• Composite surfaces	○	○
Recycling	**Processing**	• Scrap material processing		
		• Cutting tyres		
		• Processing rail cars		
		• Processing cars, trucks and general automotive		
		• Cutting tanks		
		• Cutting of railway tracks, tramway rails, and underground rails		
	Handling and sorting	• Scrap material handling		
		• Scrap material sorting		
		• Urban waste		
		• Industrial waste		
		• Wood and tyres		
	Downsizing and sorting	• Material downsizing and sorting in recycling quarries	○	○
	Recycling of ferrous material	• Recycling of ferrous material		
	Car dismantling	• Material handling and sorting		

IFP| Fixed pulverizers

IRP| Rotating pulverizers

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

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