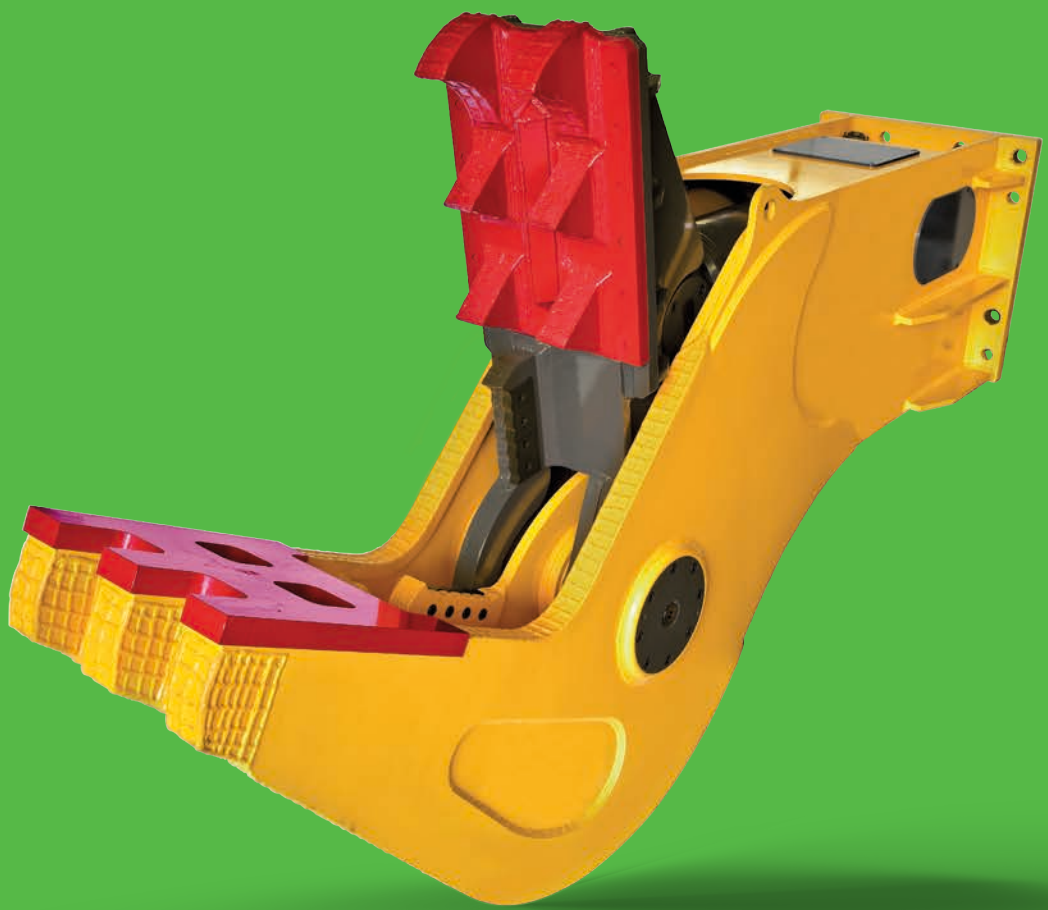
Pulverizers

IFP - Fixed
IRP - Rotating



INDECO
A TOOL FOR EVERY JOB

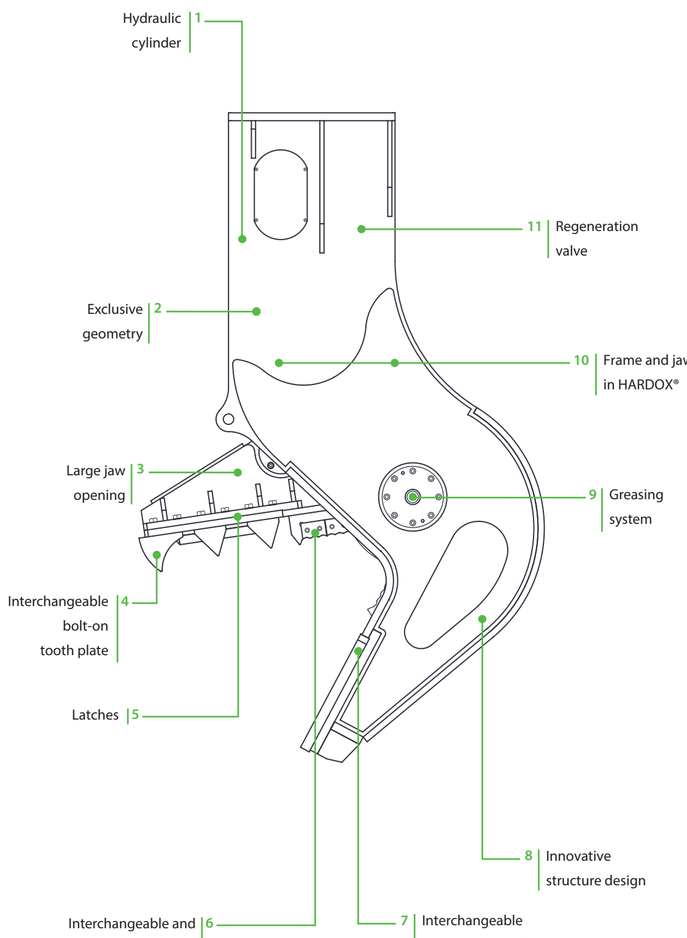
IFP fixed and IRP rotating pulverizers

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.

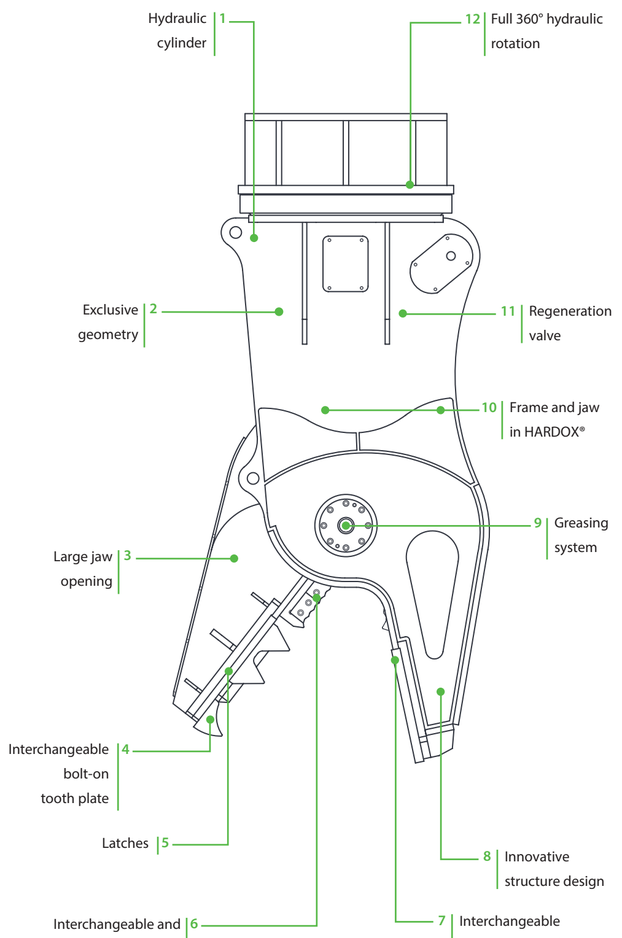
Features of Indeco pulverizers

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 tons	10 ÷ 21 tons	16 ÷ 30 tons
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 bars	350 bars	350 bars
Maximum clamping force at tip	50 tons	65 tons	80 tons
Maximum clamping force at shears	160 tons	210 tons	265 tons
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.

Technical Data	IFP 28 X	IFP 35 X	IFP 45 X
Type of carrier	4 5	5	5
Excavator weight	20 ÷ 45 tons	28 ÷ 55 tons	33 ÷ 65 tons
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 bars	350 bars	350 bars
Maximum clamping force at tip	105 tons	120 tons	150 tons
Maximum clamping force at shears	355 tons	380 tons	470 tons
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

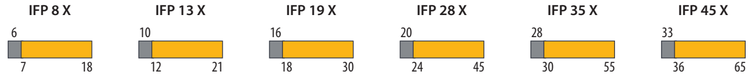
N.B. All illustrations and numerical data in this catalog are purely indicative and subject to change at our discretion and without notice. We therefore reserve the right to modify them with a view to improving and continuously developing our product.

Carrier key

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

Compatibility

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



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 tons	10 ÷ 25 tons	14 ÷ 30 tons	18 ÷ 36 tons
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 bars / 220 bars**	350 bars	350 bars	350 bars
Maximum clamping force at tip	40 tons	50 tons	65 tons	80 tons
Maximum clamping force at shears	130 tons	170 tons	210 tons	265 tons
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 bars	110 bars	110 bars	110 bars
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 tons	30 ÷ 55 tons	38 ÷ 65 tons
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 bars	350 bars	350 bars
Maximum clamping force at tip	95 tons	105 tons	120 tons
Maximum clamping force at shears	325 tons	355 tons	380 tons
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 bars	110 bars	110 bars
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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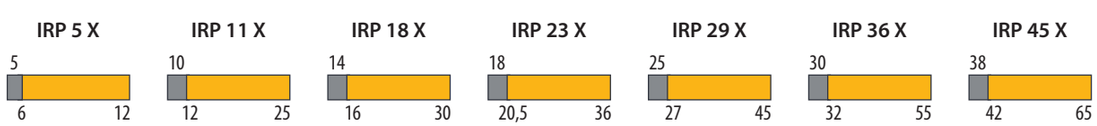


Best | Possible (match subject to approval by the Indeco dealer)

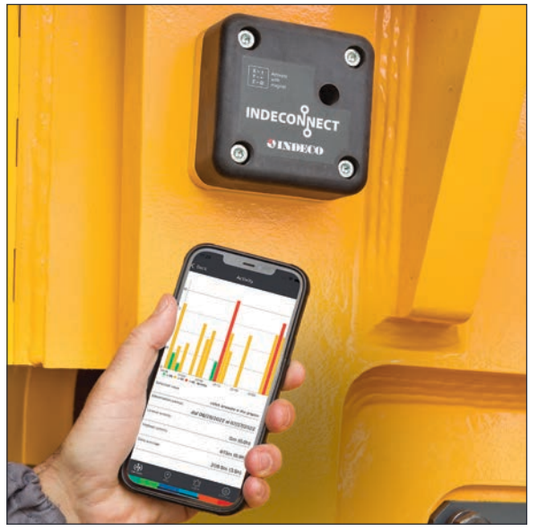
Accessories

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		

IFP| Fixed pulverizers

IRP| Rotating pulverizers

The full range of other Indeco products

Products		Weight	
IFP	8 X	750	Kg
IFP	13 X	1300	Kg
IFP	19 X	1800	Kg
IFP	28 X	2800	Kg
IFP	35 X	3450	Kg
IFP	45 X	4550	Kg
IRP	5 X	570	Kg
IRP	11 X	1150	Kg
IRP	18 X	1700	Kg
IRP	23 X	2300	Kg
IRP	29 X	2950	Kg
IRP	36 X	3600	Kg
IRP	45 X	4500	Kg
IMP*	15	1500	Kg
IMP*	20	2080	Kg
IMP*	25	2400	Kg
IMP*	35	3500	Kg
IMP*	45	4500	Kg

Products		Weight	
IHC	50	200	Kg
IHC	70	445	Kg
IHC	75	485	Kg
IHC	150	970	Kg
IHC	250	1280	Kg
IHC R	50	425	Kg
IHC R	70	630	Kg
IHC R	75	670	Kg
IHC R	150	1185	Kg
IHC R	250	1520	Kg
IMG S**	300	285	Kg
IMG S**	400	380	Kg
IMG S**	600	570	Kg
IMG S**	1200	1140	Kg
IMG S**	1700	1610	Kg
IMG S**	2300	2180	Kg
IMG S**	2800	2650	Kg
ISS***	5/7	570	Kg

Products		Weight	
ISS***	8/13	1250	Kg
ISS***	10/20	2400	Kg
ISS***	20/30	3650	Kg
ISS***	25/40	4800	Kg
ISS***	30/50	6100	Kg
ISS***	35/60	7600	Kg
ISS***	45/90	10400	Kg
IRC***	20	2800	Kg
IRC***	30	4200	Kg
IMH	3	385	Kg
IMH	5	535	Kg
IMH	6	545	Kg
IMH	8	580	Kg
IMH	10	735	Kg
IMH	14	1050	Kg
IMH	20	1500	Kg
IMH	3.2 SS	1000	Kg
IMH	4.2 SS	1400	Kg

*Crusher configuration - **Sorter configuration - ***Third-member configuration

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