Boom systems

IBS Series



INDECO
ATTACHMENT SOLUTIONS
a wipro hydraulics company

IBS
boom system

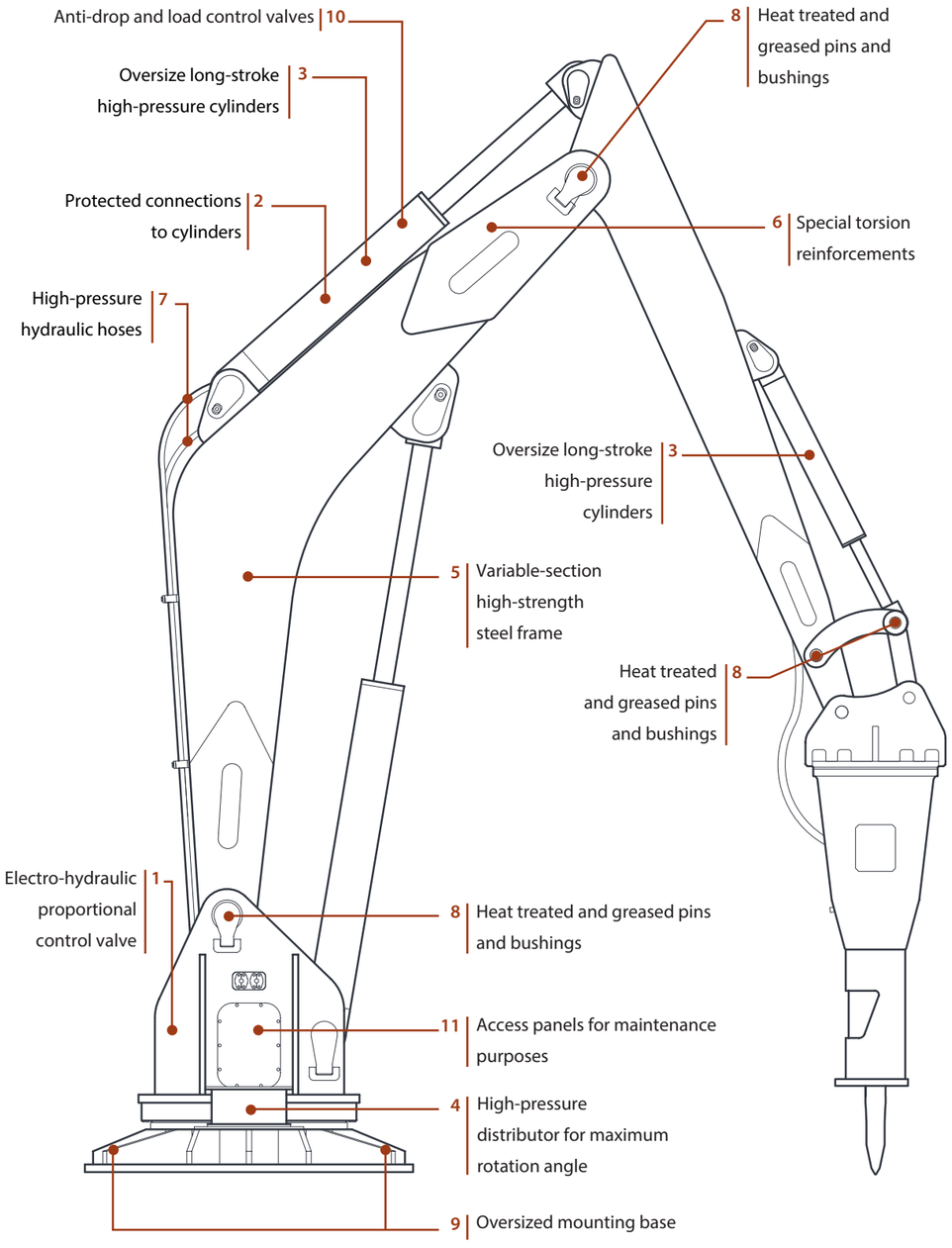
Initially manufactured and marketed by Indeco North America and Indeco Australia, the Indeco IBS Boom System soon had a strong impact on many other markets, having already proven to save time and money in many a quarry and mine, where it is used to reduce bridged and oversized material which could slow down crushing operations.
Mounted over the mouth of a primary crusher, the boom system enables the hammer to reach into the mouth of the crusher, reducing oversized boulders as well as clearing any blockages in the hopper. Various remote-control systems enable the operator to maneuver the boom from the cabin. By doing so, plant down times can be safely eliminated.
Our experience in the Australian and pan-American markets has enabled Indeco to develop a range of boom systems with outstanding reliability, ruggedness, productivity and profitability.
Indeco IBS boom systems, made from extra-strength steel alloys, are tailor-made, and are designed according to the individual requirements and specifications set out by the customer.



Features of Indeco boom systems

The electro-hydraulic proportional control valve **|1|** ensures greater efficiency and precision of movement.
The hydraulic connections to the cylinders **|2|** are positioned laterally to provide greater protection against breakage.
The hydraulic cylinders, **|3|** designed and manufactured by the Indeco technical division to exclusive specifications, are oversized to provide maximum power and hydraulic efficiency and ensure greater reliability even in demanding applications.
The rotating distributor **|4|** for the hydraulic fittings, exclusive to the IBS series, is located inside the base of the arm, ensuring true 360° rotation as there are no hoses to get in the way of movement.
Unlike many competing products, the Indeco IBS boom systems are designed and manufactured to be very similar to excavators, not only in terms of their design, but also in their use of special extra-strength steel alloys **|5|** that provide the best weight/power ratio in the market, thus ensuring versatility and reliability.
Special reinforced box sections **|6|** inside the boom make it more rugged, and more resistant to torsion and buckling.
The entire hydraulic line mounted on the arm, including the outlet and inlet hoses to the hammer, is made up of high-pressure hoses **|7|**.
The sintered bronze and aluminium bushings **|8|**, along with the special-steel pins, are heat treated, which increases their strength and also have special greasing channels.
The mounting base **|9|** for the IBS boom is particularly robust and oversized for maximum durability.
Anti-drop and load control valves **|10|**, mounted on the cylinders, prevent the boom from accidentally collapsing and at the same time improve safety.
Access panels **|11|** to the rotation motor and to the hydraulic distribution system facilitate maintenance.

Here at Indeco we use computational tools such as FEA - Finite Element Analysis - to perform structural and stress tests, making it possible to test and improve the product before the start of the manufacturing process.



Rotation

360°
slewing ring and hydraulic motor
360° rotation with a fifth wheel and pinion and planetary gear units for maximum operating flexibility makes the Indeco IBS similar to an excavator boom.

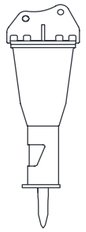




How to choose the boom system

HP model

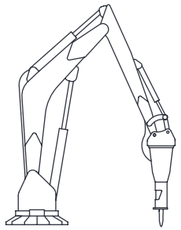
choice based on



- Type of work
- Type of material
- Boulder size
- Production targets

IBS model

choice based on



- Working area (type and size of crusher and system)
- Working surface and excavation depth
- 360° rotation
- Number of joints (2 or 3)

Choice of Hydraulic Power Pack / ECU

based on the required power to be installed

Type

On Board

three-phase electric motor



Separate

electrical panel with soft starter inverter





			IBS 33	IBS 40	IBS 50	IBS 62	IBS 76	IBS 94	IBS 116	IBS 143
			Maximum Horizontal Reach (ft)*							
Power Pack (Hp)	Hammer (lbs)		11	13	16.5	20.5	25	31	38	47
20	HP 150	(135)	IBS 33-550	IBS 40-500						
	HP 200	(180/220)	IBS 33-550	IBS 40-500						
	HP 350	(360)	IBS 33-550	IBS 40-500						
	HP 550	(510)	IBS 33-550	IBS 40-500						
28	HP 800	(710)	IBS 33-1100	IBS 40-1100	IBS 50-1100					
	HP 1000	(860)	IBS 33-1100	IBS 40-1100	IBS 50-1100					
	HP 1100	(980)	IBS 33-1100	IBS 40-1100	IBS 50-1100					
40	HP 1250	(1220)	IBS 33-1500	IBS 40-1500	IBS 50-1500	IBS 62-1500				
	HP 1500	(1440)	IBS 33-1500	IBS 40-1500	IBS 50-1500	IBS 62-1500				
50	HP 1800	(1880)		IBS 40-2000	IBS 50-2000	IBS 62-2000	IBS 76-2000			
	HP 2000	(2250)		IBS 40-2000	IBS 50-2000	IBS 62-2000	IBS 76-2000			
60	HP 3000	(2650)				IBS 62-4000	IBS 76-4000	IBS 94-4000	IBS 116-4000	IBS 143-4000
	HP 4000	(3320)				IBS 62-4000	IBS 76-4000	IBS 94-4000	IBS 116-4000	IBS 143-4000
74	HP 4500	(3740)					IBS 76-6000	IBS 94-6000	IBS 116-6000	IBS 143-6000
	HP 6000	(5000)					IBS 76-6000	IBS 94-6000	IBS 116-6000	IBS 143-6000
100	HP 7500	(5550)						IBS 94-10000	IBS 116-10000	IBS 143-10000
	HP 10000	(6950)						IBS 94-10000	IBS 116-10000	IBS 143-10000

*Lengths can be customized according to the customer's requirements

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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'** |1| 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.

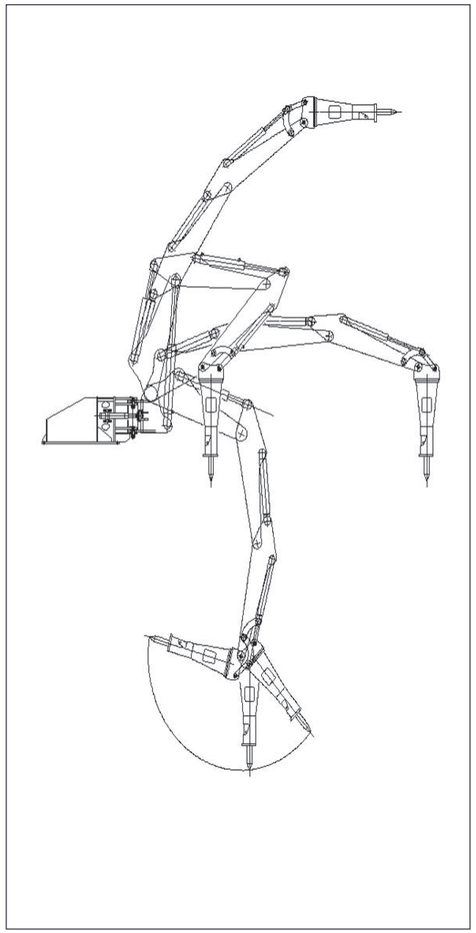
Three articulations

The Indeco hydraulic boom can be made with three articulations |2| so as to increase the working area when the hammer is in a vertical position, to reach inaccessible positions under the mounting base, and to increase versatility of use.

1 |



2 |



3 |



4 |



5 |



6 |



Automatic greasing kit for boom and hammer

Optimises grease consumption, cutting out the machine down times once needed to lubricate moving parts.
The kit includes a programmable pumping unit pack |3|, hoses and hammer and boom fittings.
The system increases the service life of all the ball bushings on the boom and in the moving parts of the hammer.

Control system

The Indeco IBS has a highly efficient control system with an electro-hydraulic proportional valve.
Indeco has designed two different types:

- remote control |4|, with a special cable up to 300 ft in length
- wireless remote control |5| for distances of up to 100 ft.

Heat exchanger

High-efficiency radiator |6| and auxiliary cooling fan to keep the oil temperature constant even in extreme operating conditions.

Oil warmer

At very low working temperatures and in cold climates, the oil warmer |7| keeps the oil temperature constant.

Oil level indicator

Indicator |8| which warns the operator when the oil level is too low.

Temperature indicator

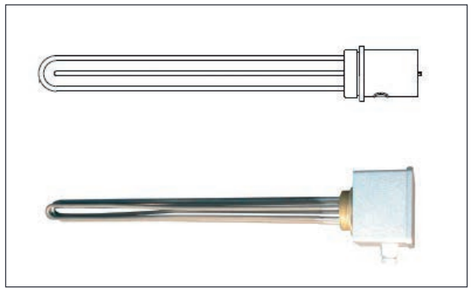
Indicator |9| which warns the operator when the temperature is too high.

Hydraulic feed pumps

There are three types of hydraulic feed pumps **|10|**:

- gear pumps, for operating pressures of up to 2900 psi
- axial piston pumps for operating pressures of over 2900 psi
- variable displacement pumps with load sensing.

7 |



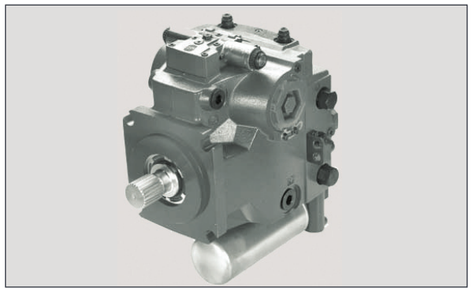
8 |



9 |



10 |





Application areas

Mining and Quarry

		IBS
Preliminary works	• Overburden removal	
	• Bench, road & ramp leveling	
	• Roof, face & rib scaling	
Secondary demolition	• Boulder reduction in rock pile	
	• Removing blockages at crushing systems	○
Primary rock breaking	• Selective rock breaking	
	• Blastfree mining	



The complete range of Indeco products

Products	Weight/Length
HP Hydraulic hammers	from 135 to 24400 lbs
IFP fixed pulverisers	from 1650 to 10050 lbs
IRP rotating pulverisers	from 1300 to 9900 lbs
IDC Primary Demolition Crusher	from 1980 to 15850 lbs
IMP Multiprocessor	from 3300 to 10800 lbs
IMP Mutiprocessor Car Dismantler	3300 lbs
IHC fixed compactors	from 450 to 2850 lbs

Products	Weight/Length
IHC R rotating compactors	from 950 to 3350 lbs
IMG S-D-H-L-T Multi Grabs	from 630 to 6600 lbs
ISS Shears	from 1060 to 24200 lbs
IRC rail cutters	from 9240 to 9650 lbs
IMH Mulching Heads	from 850 to 4250 lbs
IBS boom systems	from 11 to 47 ft

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

USA Version EN

Quality Management System Certification UNI EN ISO 9001:2015

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