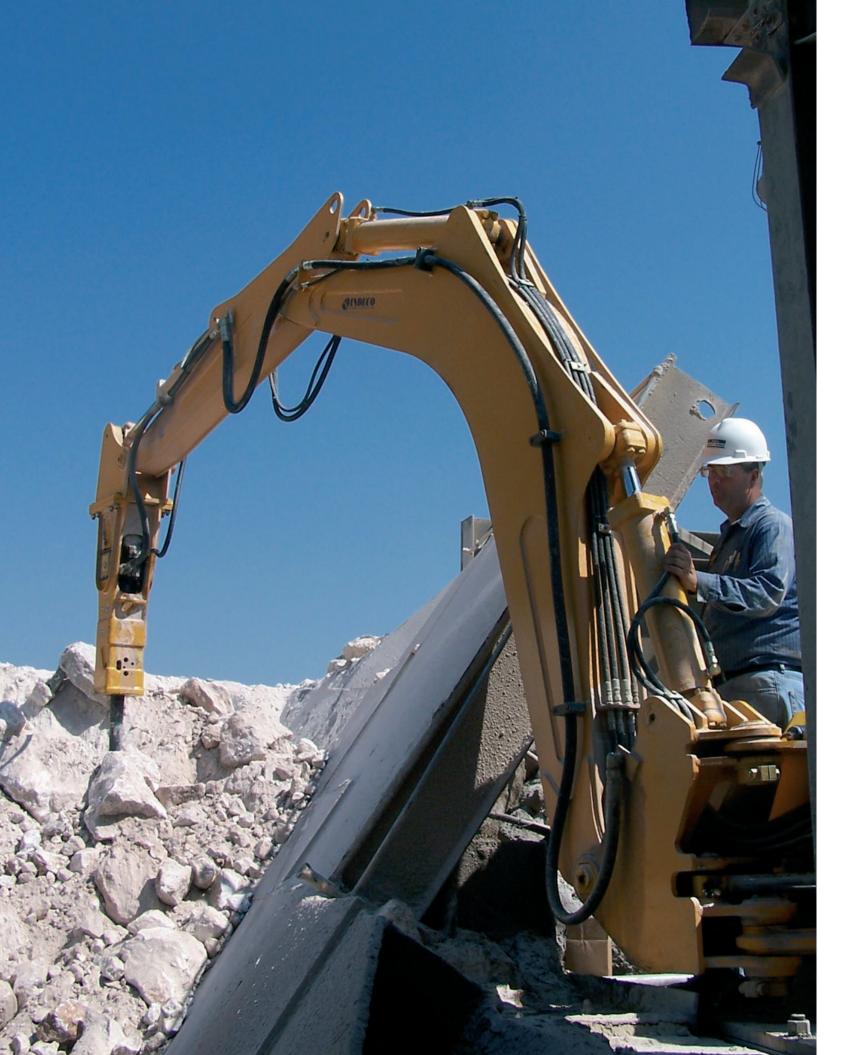


Boom systems

IBS series





Application areas

			IBS
	Preliminary works	Overburden removal	1
		Bench, road & ramp leveling	
60		Roof, face & rib scaling	
	Secondary demolition	Boulder reduction in rock pile	
Mining and Quarry		Removing blockages	
willing and Quarry		at crushing systems	0
	Primary rock breaking	Selective rock breaking	
		Blastfree mining	
mining and Quarry	Primary rock breaking	Selective rock breaking	

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].

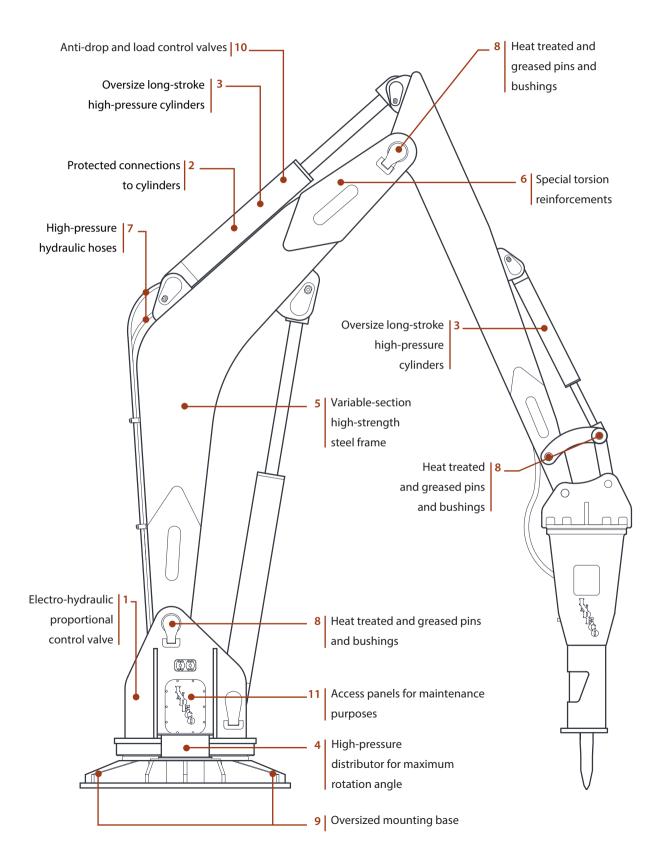
The sintered bronze and aluminium bushings [8], along with the special-steel pins, are heat treated, which increases their strength and also have special greasing channels.

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

Indeco IBS boom systems are available with three different types of rotation, for maximum flexibility, depending on the type of job they are used for.

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.



180°

hydraulic actuator

true 180° rotation using a special hydraulic actuator designed and manufactured exclusively by Indeco, provides greater versatility and application in a wider work area.



150°

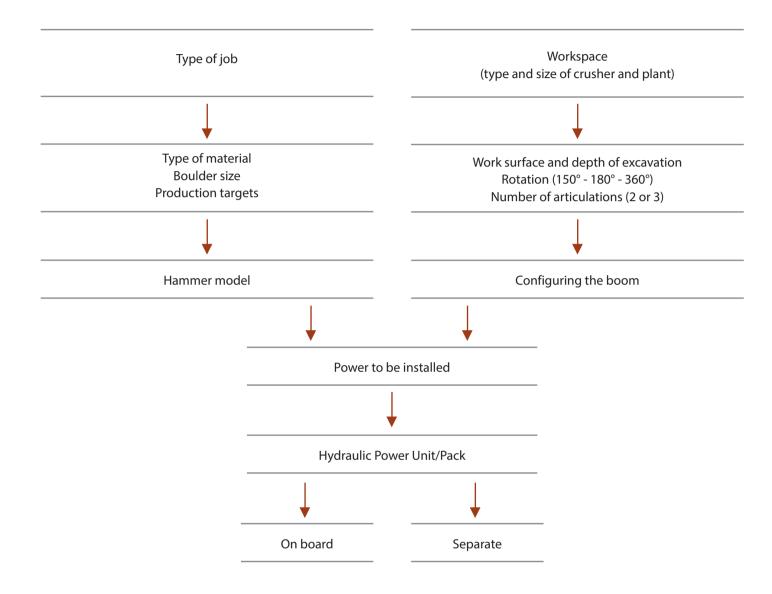
side hydraulic pistons

150° rotation uses two oversize hydraulic pistons working in sequence, to ensure better performance and greater rotational power.





How to choose the boom system



On board power unit/pack, three-phase electric motor

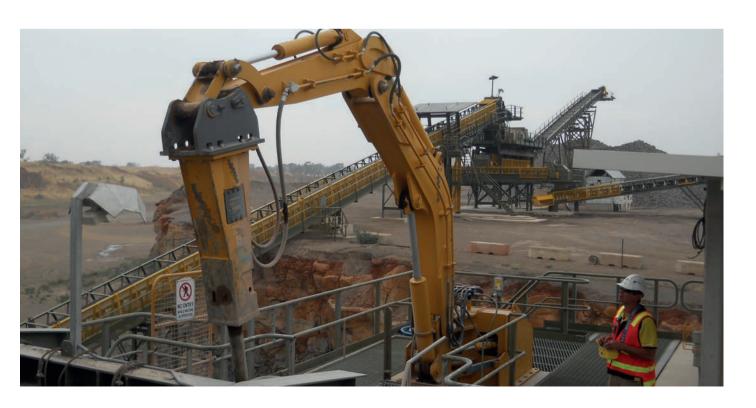


Separate power unit/pack, electrical panel with soft starter inverter



			INDECO BOOM SYSTEM							
			IBS 33	IBS 40	IBS 50	IBS 62	IBS 76	IBS 94	IBS 116	IBS 143
			Maximum Horizontal Reach (ft)*							
Power Pack (Hp)		mmer 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						
	HP 800	(710)	IBS 33-1100	IBS 40-1100	IBS 50-1100					
28	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				
40	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			
30	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
- 00	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
100	HP 10000	(6950)						IBS 94-10000	IBS 116-10000	IBS 143-10000

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



Accessories

Three articulations

The Indeco hydraulic boom can be made with three articulations |1| 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.

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 |2|, 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 [3], with a special cable up to 300 ft in
- wireless remote control |4| for distances of up to 100 ft.

Heat exchanger

High-efficiency radiator |5| 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 6 keeps the oil temperature constant.

Oil level indicator

Indicator | 7 | which warns the operator when the oil level is too low.

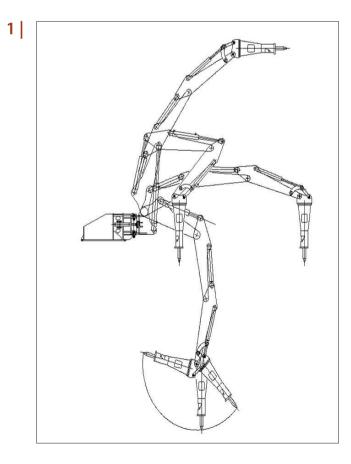
Temperature indicator

Indicator 8 which warns the operator when the temperature is too high.

Hydraulic feed pumps

There are three types of hydraulic feed pumps |9|:

- 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.

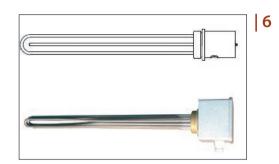


















The full range of Indeco hammers

Hammer		Weig	Weight	
НР	150	135	lbs	
HP	200	180	lbs	
HP	200 Heavy Duty	220	lbs	
HP	350	360	lbs	
HP	550	510	lbs	
HP	800	710	lbs	
HP	1000	860	lbs	
HP	1100	980	lbs	
HP	1250	1220	lbs	
HP	1500	1440	lbs	
HP	1800	1880	lbs	
HP	2000	2250	lbs	

Hammer		Weig	Weight		
НР	3000	2650	lbs		
HP	4000	3320	lbs		
HP	4500	3740	lbs		
HP	5000	4200	lbs		
НР	6000	5000	lbs		
HP	7500	5550	lbs		
HP	10000	6950	lbs		
HP	11000	7950	lbs		
HP	12000	9900	lbs		
HP	14000	11600	lbs		
HP	16000	17200	lbs		
HP	25000 Plus	24400	lbs		

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