





Shears

ISS Series



Application areas

		F	II	III
 <p>Demolition & renovation</p>	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				
 <p>Recycling</p>	Processing			
	• Scrap material processing	○	○	○
	• Cutting tyres	○	○	○
	• Processing rail cars	○	○	○
	• Processing cars, trucks and general automotive	○	○	○
	• Cutting tanks	○	○	○
	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				

ISS shears

Vital tools for anyone working in the scrap metal or recycling sectors, Indeco ISS Steel Shears stand out for their cutting-edge design, for their extreme robustness and for their technical innovations which substantially increase their efficiency.

Rapid, efficient and surprisingly powerful, Indeco ISS shears are the ideal choice for demolishing any type of metal structure.

Indeco's tried and tested continuous rotation hydraulic system, found on all of our other rotating products, enables the shear to work in the best possible position, while its large jaw opening and fast cycle times and its incredible cutting power, make all demolition operations fast and effective.

Special extra-strength HARDOX® steel alloys make ISS shears outstandingly resistant and reliable. Each of the main knives and guide-blades was designed with four cutting surfaces and so can be rotated three times before replacement; promising more consistency, uptime, and production in your operation.





Features of Indeco hydraulic shears

The regeneration valve **|1|** speeds up no-load movement of the jaw, which opens and closes more quickly, thus reducing cycle times and increasing productivity.

The chassis **|2|**, made from extra-strength HARDOX® steel alloys, eliminates any flexing of the shear body.

The unique integrated dual guide system **|3|** can be used to adjust the alignment tolerance of the jaw and prevents it from buckling during the cutting stroke.

The interchangeable “quick change” wear bushings **|4|** ensure that the knives are always optimally aligned.

The heavy-duty pivot group **|5|** provides long-term cutting efficiency, keeps jaws aligned and prevents buckling.

The innovative design **|6|** improves cutting efficiency compared to similar products.

The large jaw opening **|7|** provides greater flexibility for numerous applications.

The special insert bushings **|8|** are made from an anti-friction material with a dust seal.

The large, powerful hydraulic cylinder **|9|** is an exclusive Indeco design, and provides enough force to deal with any type of working conditions. Its long-lasting seals are able to withstand up to 700 bars of pressure.

The baseplate for the ISS in fixed configuration **|10|** makes the attachment much lighter and less bulky, which means that a larger shear can be used on the excavator.

The shears have full high-speed 360° hydraulic rotation **|11|** for better positioning and optimal cutting in any working position.

The mounting bracket for the 2nd-member configuration **|12|** is used to mount the ISS straight onto the excavator boom. In this configuration, ideal for recycling ferrous material, a large attachment can be mounted even on a relatively light carrier.

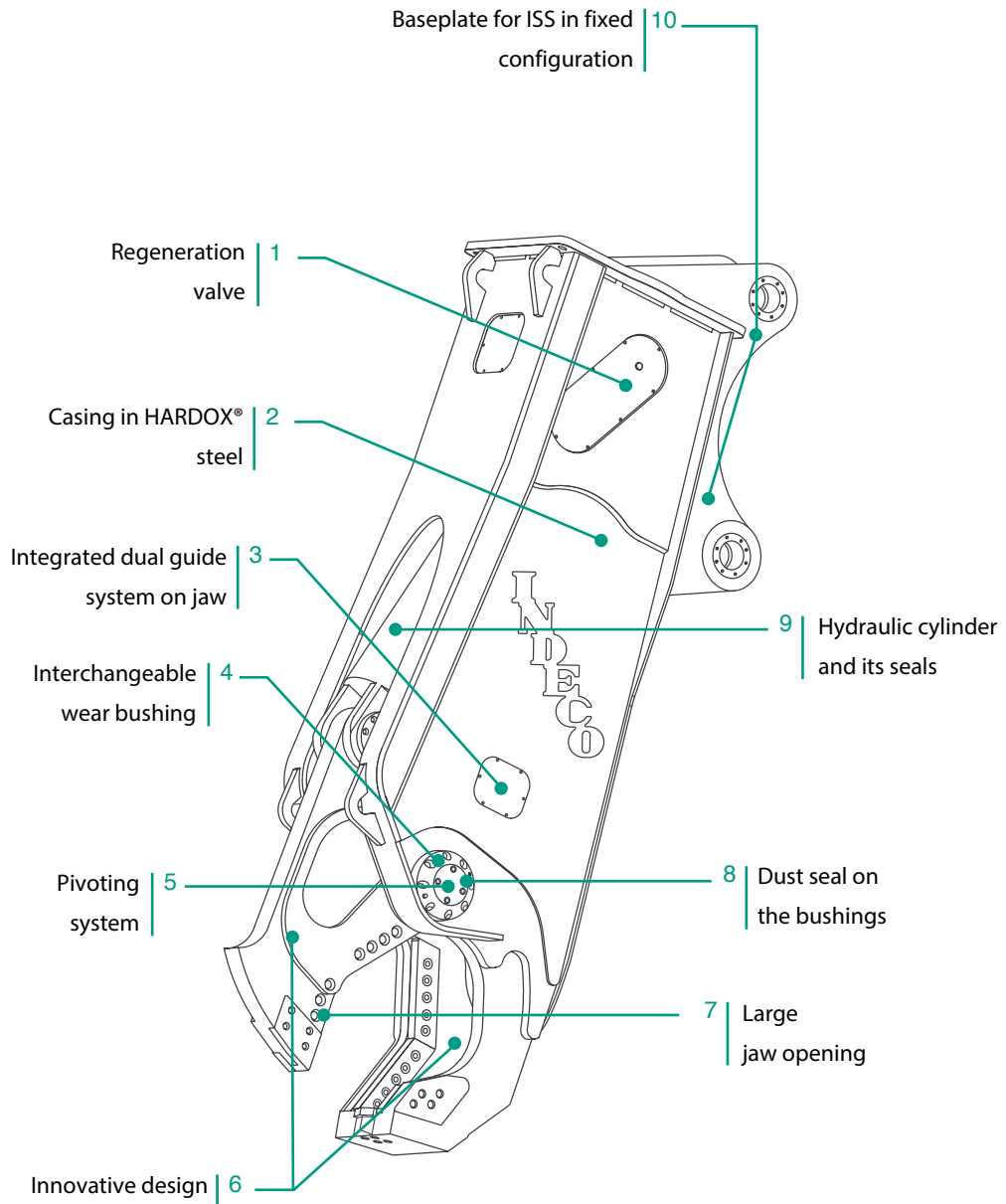
The universal baseplate for 2nd member mounting brackets **|13|** is compatible with all carriers.

The 3rd member mounting bracket **|14|** is used to mount the ISS on the carrier stick (bucket-mounted), ideal for demolition jobs.

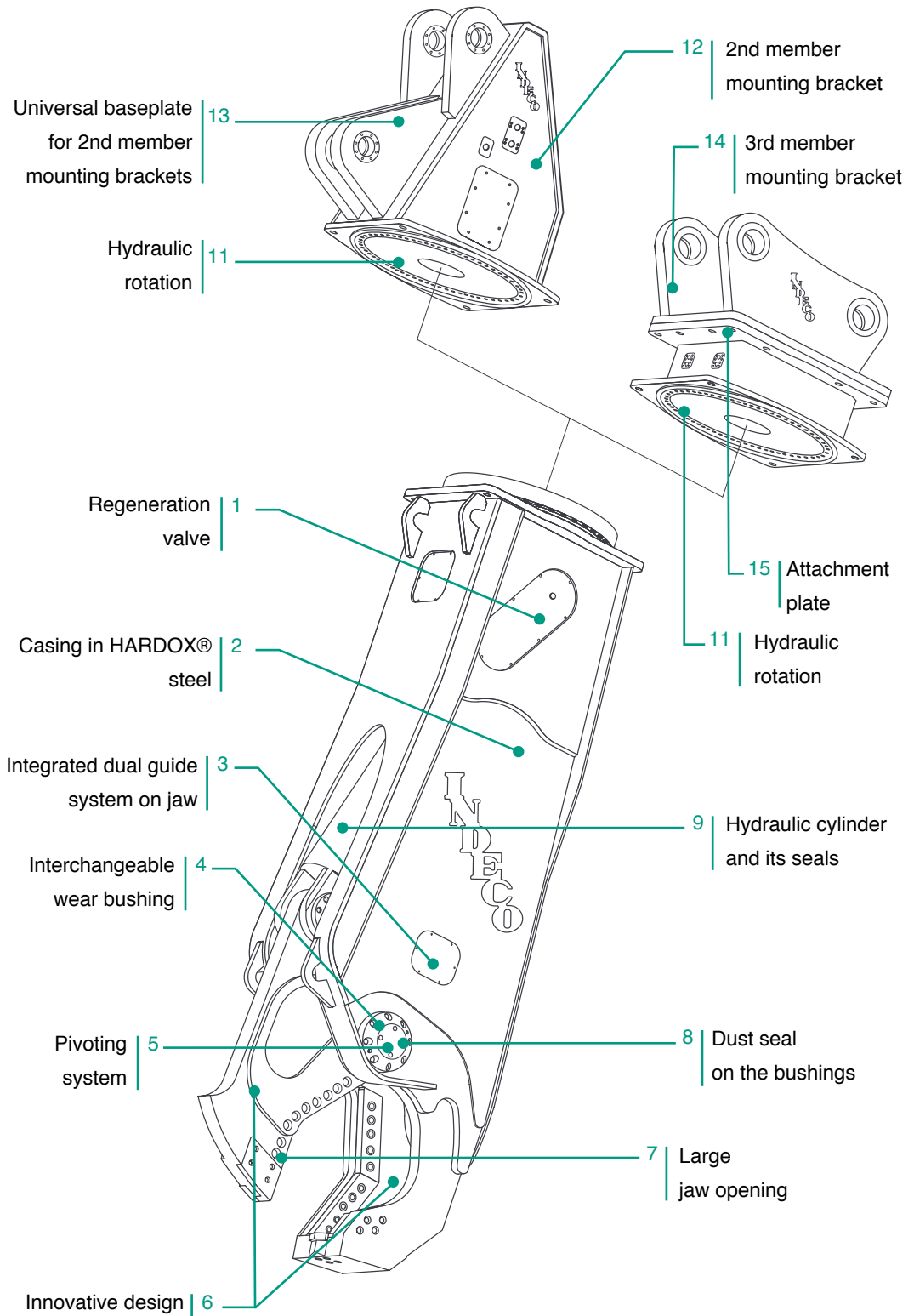
The attachment plate **|15|** is compatible with the plate for Indeco hammers of similar weight.



Fixed configuration

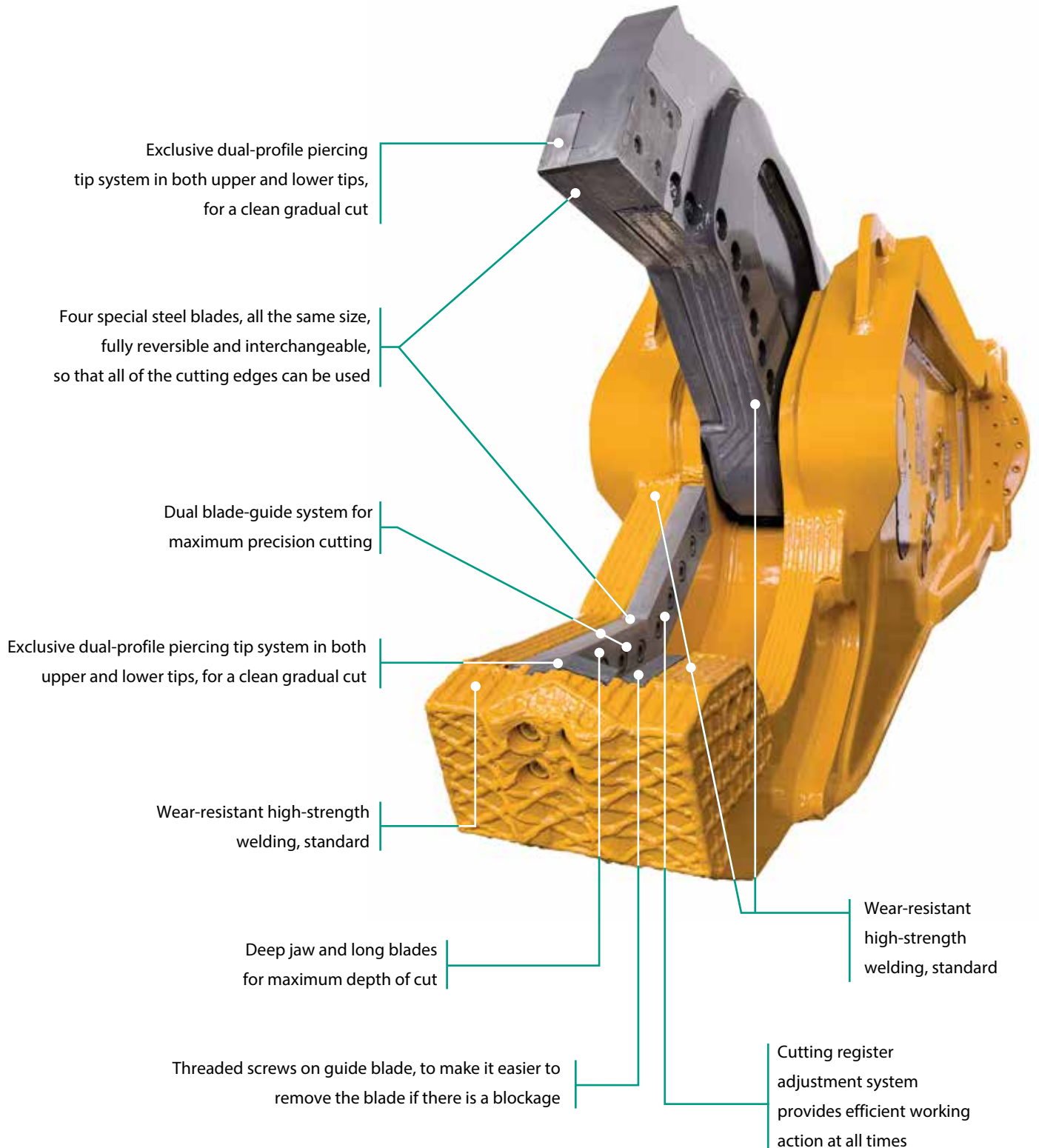


2nd and 3rd member configuration



Cutting capacity

The Indeco ISS shears have exceptional capacity and cutting force, due to the following specific design features:





INDECO
ISS
20/30

40-306

Technical Data	ISS 10/20	ISS 20/30	ISS 25/40
Type of carrier	4 5	5	5
Min. excavator weight in fixed version (boom-mounted) configuration	17600 lb	39600 lb	50600 lb
Min. excavator weight in 2nd member (boom-mounted) configuration	22000 lb	44000 lb	55000 lb
Min. excavator weight in 3rd member (bucket-mounted) configuration	44000 lb	66000 lb	88000 lb
Attachment operating weight fixed version	4400 lb	7150 lb	9900 lb
Attachment operating weight 2nd member	5280 lb	7920 lb	11000 lb
Attachment operating weight 3rd member	5280 lb	8030 lb	10560 lb
Maximum working pressure	5900 psi	5900 psi	5900 psi
Oil delivery	25 ÷ 55 gpm	50 ÷ 80 gpm	55 ÷ 95 gpm
Maximum rotation oil flow	5 gpm	8 gpm	11 gpm
Maximum rotation pressure	1650 psi	1650 psi	1650 psi
Maximum clamping force at tip	120 tons	140 tons	190 tons
Clamping force class	600 tons	800 tons	1000 tons
Length	107 in	134 in	150 in
Jaw width	18 in	22 in	25 in
Jaw opening	22 in	26 in	29 in
Max jaw depth	22,5 in	27 in	30 in
Closure time	2.4 ÷ 4.6 s	2.8 ÷ 4 s	3.2 ÷ 5 s
Opening time	2.2 ÷ 4.2 s	2.6 ÷ 3.8 s	2.8 ÷ 4.8 s
Compatibility of attachment plate with hammer	HP 5000 ÷ HP 7500	HP 12000 - HP 14000	HP 12000 - HP 14000

N.B. Weights may vary according to the various configurations. 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



ISS Fixed



ISS 2nd member



ISS 3rd member

Common configurations on the following models: ISS 10/20 - ISS 20/30 - ISS 25/40 - ISS 30/50 - ISS 35/60 - ISS 45/90

Technical Data	ISS 30/50	ISS 35/60	ISS 45/90
Type of carrier	5	5	5
Min. excavator weight in fixed version (boom-mounted) configuration	59400 lb	72600 lb	92400 lb
Min. excavator weight in 2nd member (boom-mounted) configuration	66000 lb	77000 lb	99000 lb
Min. excavator weight in 3rd member (bucket-mounted) configuration	110000 lb	132000 lb	198000 lb
Attachment operating weight fixed version	12300 lb	15850 lb	21340 lb
Attachment operating weight 2nd member	13860 lb	17160 lb	24200 lb
Attachment operating weight 3rd member	13420 lb	17160 lb	22880 lb
Maximum working pressure	5900 psi	5900 psi	5900 psi
Oil delivery	65 ÷ 105 gpm	80 ÷ 145 gpm	95 ÷ 185 gpm
Maximum rotation oil flow	13 gpm	13 gpm	16 gpm
Maximum rotation pressure	1950 psi	1950 psi	1950 psi
Maximum clamping force at tip	210 tons	240 tons	275 tons
Clamping force class	1300 tons	1500 tons	2500 tons
Length	159 in	167 in	190 in
Jaw width	27 in	29 in	32 in
Jaw opening	33,5 in	37,5 in	43,3 in
Max jaw depth	34 in	38,5 in	44 in
Closure time	3.6 ÷ 5.8 s	3.6 ÷ 6.4 s	3.8 ÷ 7.2 s
Opening time	3.4 ÷ 5.6 s	3.2 ÷ 5.6 s	3.6 ÷ 7 s
Compatibility of attachment plate with hammer	HP 12000 - HP 14000	HP 16000 - HP 25000	HP 16000 - HP 25000

N.B. Weights may vary according to the various configurations. 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



ISS Fixed



ISS 2nd member



ISS 3rd member

Common configurations on the following models: ISS 10/20 - ISS 20/30 - ISS 25/40 - ISS 30/50 - ISS 35/60 - ISS 45/90

Accessories

1 | Connecting hoses

We recommend using original Indeco high- and low-pressure hoses to connect various tools to the hydraulic system on the carrier.

2 | Special 2nd member universal mounting bracket

Indeco have designed our second-member mounting system to be flexible, extremely strong and long-lasting, and it can be used on a variety of different carriers. Digital machined-true surfaces ensure perfect alignment of the rotating components, and all service items are easily accessed via the four access panels.

3 | Mounting bracket for 3rd member configuration

Indeco have designed our 3rd member mounting brackets to give the operator the best flexibility in terms of range of reach and positioning. And they're designed identical to OEM bucket dimensions with pre-installed pins; allowing for quick change as needed and the use of quick-coupler systems if desired.

4 | Blades

Made with special heat-treated steels, using an exclusive Indeco technology which optimizes their performance and durability.

1 |



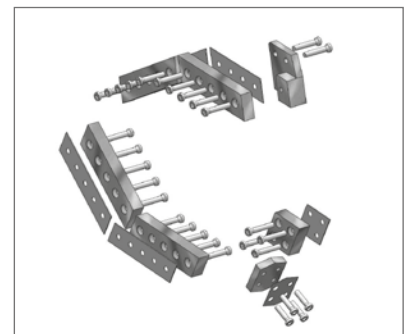
2 |



3 |



4 |








Appetite guide

Indeco shears are designed to cut and reduce the size of the most common materials used in demolitions in the mechanical, naval and construction sectors.

The figures set out below refer to cutting capacity under normal working conditions. Results may vary according to such factors as how robust the material to be cut is, what

condition the shear blades are in, the characteristics of the carrier and the operator's ability. Appropriate maintenance of the shear is crucial for maximum productivity of cutting operations.

	ISS 10/20	ISS 20/30	ISS 25/40	ISS 30/50	ISS 35/60	ISS 45/90
	2 in	2.8 in	3.6 in	4.2 in	4.6 in	5.7 in
	13 Beam*	16 Beam*	18 Beam*	22 Beam*	26 Beam*	31 Beam*
	0.5 in**	0.75 in**	0.8 in**	0.9 in**	1 in**	1.25 in**
	2 in	2.5 in	3.5 in	4 in	4.5 in	5.5 in
	10.5 in ***	13 in ***	17.5 in ***	19.5 in ***	22.5 in ***	28 in ***

* These figures may vary for beams of different shapes, thicknesses and material

** Blade thickness affect the shear's capacity to pierce sheet metal in various applications

*** Refer to mild steel tubing and not to other materials such as stainless steel, cast steel etc.

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.

The full range of other Indeco products

Products	Weight	Products	Weight
IFP 8 X	1650 lb	IHC 150	2150 lb
IFP 13 X	2900 lb	IHC 250	2850 lb
IFP 19 X	4000 lb	IHC R 50	950 lb
IFP 28 X	6200 lb	IHC R 70	1400 lb
IFP 35 X	7600 lb	IHC R 75	1500 lb
IFP 45 X	9700 lb	IHC R 150	2650 lb
IRP 11 X	2550 lb	IHC R 250	3350 lb
IRP 18 X	3750 lb	IMG S** 400	850 lb
IRP 23 X	5100 lb	IMG S** 600	1300 lb
IRP 29 X	6500 lb	IMG S** 1200	2550 lb
IRP 36 X	7950 lb	IMG S** 1700	3550 lb
IRP 45 X	9900 lb	IMG S** 2300	4800 lb
IMP* 15	3300 lb	IMG S** 2800	5850 lb
IMP* 20	4600 lb	ISS*** 10/20	5280 lb
IMP* 25	5300 lb	ISS*** 20/30	8030 lb
IMP* 35	7700 lb	ISS*** 25/40	10560 lb
IMP* 45	9900 lb	ISS*** 30/50	13420 lb
IHC 50	450 lb	ISS*** 35/60	17160 lb
IHC 70	1000 lb	ISS*** 45/90	22880 lb
IHC 75	1100 lb		

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

INDECO NORTH AMERICA

135 Research Drive

Milford CT, 06460

ph. (203) 713-1030 - fax (203) 713-1040

www.indeco-breakers.com

USA