Cat shears are designed to cut and reduce the size of metal items commonly found in scrap yards and demolition sites. The unique straight lower jaw design effectively enhances the cutting force by facilitating the spreading out of steel along the length of the jaw, creating a more efficient cut. The tip penetrates material and maximizes productivity when piercing is required.

C-series shears incorporate a bolt-on piercing tip — a key feature for enhancing up-time. Dual sided, fully reversible and identical piercing blades (S365C and S385C).

The new shape of the housing provides improved protection for shear components and better positions the jaw relative to the stick. The cutting edge design greatly improves the protection of the cylinder, which eliminates the use of a cylinder guard by extending the housing to cover the cylinder rod. A newly designed hub is better protected against damage.

Large access panels on the top, bottom and sides of the shear housing make it easier to service inside components. The unique hub adjustment quickly compensates blade wear.

Safety during maintenance work is enhanced with an improved jaw and rotation service locks.

A standard flagged pin is used to secure the cylinder rod to the moving jaw.
Bolt-on Tip

The Cat Bolt-On Piercing Tip greatly enhances the maintainability of Cat Shears. The bolt-on tip can be replaced in a very short time using common hand tools.

Easy to Maintain
Durable, Reversible Blades
Blades are very durable with long wear – 150 to 250 hours per blade edge (depending on application). Blades are fully reversible and can be flipped and rotated to utilize four cutting edges on each section.

Quick Blade Change
Blades in both jaws are held in place with threaded bolt holes and slotted shims making change-out quick and easy. Bushings prevent bolts from loosening and breaking. Shims maintain the gap between the blades for effective cutting.

Dual sided
The Cat tip assembly protects the moving jaw on both sides. There is sufficient length to protect the parent material as the moving jaw enters into the fixed jaw.

Fully reversible
The bolt-on tip is comprised of two identical, symmetrical piercing blades; each of which has two functional edges. If the tip wears or breaks, the piercing blades can be quickly reversed, putting the shear quickly back in production.

Identical Piercing Blades
As mentioned above, the Cat bolt-on piercing tip uses a single part for both sides of the jaw, and identical mounting hardware. Managing spare parts is more economical, maintenance process is simpler resulting in lowering owning and operating costs.
Features of Cat Shears

1. **Bolt-On Piercing Tip** – This innovative design brings Cat shears the flexibility of a bolt-on tip with features like total reverse-ability and dual-sided protection.

2. **Straight Lower Jaw, Apex Upper Jaw** – Design improves material cutting capability.

3. **Wear Plates** – The front of the fixed jaw is protected by weld-on wear plates, protecting the parent metal when the shear is working in scrap piles.

4. **Jaw Lock & Rotation lock** – Safety during maintenance work and transport is enhanced with an improved jaw and rotation service locks.

5. **Protective Housing** – The shape of the housing protects the cylinder rod through the entire cutting cycle without the need for additional guarding.

6. **Adjustable Hub** – An unique feature of Cat Shears is the adjustable hub. It allows easy and fast jaw realignment as required, and is field serviceable.

7. **Slewing Ring Rotation** – Cat shears feature a 360 degree, bi-directional rotation system. The shear can be quickly positioned for optimum cutting, improving productivity in both scrap and demolition applications. The heavy-duty rotator is built to withstand the forces generated by the excavator and shear.

8. **Speed Valve** – The hydraulic cylinder is regenerated via a speed valve improves cycle time performance.

9. **Panels for Easy Access** – Large access panels provide a way to reach the shear internals from the front, back or either side.

**Straight lower jaw enhances performance** – Maximizes shear force, creates a more efficient cut.
Cat S320B, S325B and S340B Shears share almost all the same benefits as the C series. There are a couple of key differences.

B series shears utilize a weld-on piercing tip. This tip is made of hardened steel and features excellent wear characteristics. It can be repeatedly hardfaced for long life and effective piercing at a low operating cost.

Drop side of the jaw is protected by a bolt-on replaceable wear plate. This protects the jaw as it passes through the lower jaw. It is constructed from the same durable material as the blades.

Key differences to the C series

1. Bolt-on, Replaceable Wear Plate
2. Weld-on Piercing Tip
The S305 Mobile Scrap and Demolition Shear, mounted on a mini-excavator or skid steer loader is a very productive tool in processing of lighter steel or non-ferrous material such as cable, rebar, small beams and small diameter pipe.

The S305 is designed for use on skid steer loaders and mini-excavators creating a cutting system that keeps machine stability and productivity in mind. The S305 is matched to the machine’s horsepower and auxiliary hydraulic circuit for maximum system performance and reliability.

The S305 is designed and matched for maximum performance on skid steer loaders sized 236B2 and larger, all multi-terrain loaders, boom-mount on the 303.5, 304, 305; stick-mount on 307 and 308 hydraulic excavators.

### Key features

1. **Heavy duty 360° rotation system**
   
   Designed to withstand forces mini-Excavators and Skid Steer Loaders are capable of applying to the rotator area.

2. **Fully reversible blades**
   
   Four cutting edges each

3. **Rotation jaw lock**

4. **Hub nut pin is field replaceable**
### Specifications and Dimensions

<table>
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<tr>
<th></th>
<th>S305</th>
<th>S320B</th>
<th>S325B</th>
<th>S340B</th>
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** I beams
- IPN 200
- IPE 360
- IPE 400
- IPE 450
- IPE 600
- IPE 600

** Columns
- HE 120 A
- HP 200x53
- HE 240 B
- HE 300 B
- HE-A 450
- HE 450 B

** Round
- mm 50
- mm 90
- mm 100
- mm 115
- mm 120
- mm 125

** Square
- mm 40
- mm 65
- mm 90
- mm 90
- mm 100
- mm 120

** Pipe
- DN 200
- DN 300
- DN 350
- DN 400
- DN 458
- DN 508

** Piercing
- mm 10
- mm 16
- mm 19
- mm 22
- mm 27
- mm 33

* Weight includes mounting bracket.
** The profiles above provide an approximation of shear cutting capabilities. Cutting capacities shown are based on material made of mild steel, HEX operating pressure of 350 bar, and shear knives in good condition. Lower operating pressures, dull blade edges, and harder steel will reduce cutting capacities.

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**Hydraulic Requirements**

Two way hydraulic high pressure lines for opening/closing and two way hydraulic medium pressure lines for rotation controlled by joystick in the cab or pedal according to customer’s choice.
### Matching Guide – Hydraulic Excavators

<table>
<thead>
<tr>
<th>Shears</th>
<th>HEX - stick mount</th>
<th>HEX - boom mount</th>
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Matches indicated above are based on counterweight and grouser width on standard machines. Using different counterweight and grouser options may affect machine stability. Matches indicated above are calculated with standard boom (1-piece or Reach), pin on connection and, cases where this is applicable, with all four stabilizers down. Any variation from this could result in a less than stable match. For Cat shears matched to machine and other machine variations not listed above, please contact your local Cat dealer.

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**Boom-mount**

Cat Shears can be boom-mounted for use in scrap yards and other applications where a large shear is required to reduce metal and reach is not as important.

**Stick-mount**

Cat Shears are commonly stick-mounted for use in demolition applications where reach is critical.

The shear can be pinned directly to the stick, or utilized with either a pin grabber quick coupler or dedicated coupler. The addition of a coupler allows quick tool change and is ideal for situations in which multiple tool options are desired.