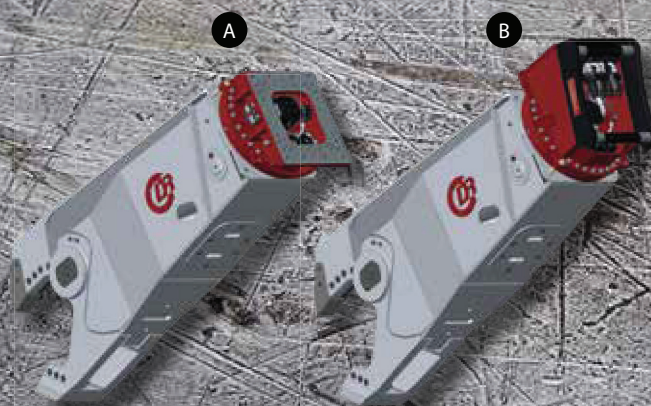


DXS SCRAP SHEARS

The DEMAREC DXS mobile shear, equipped with DemaPower 2.0 was engineered deliver a scrap shear with a maximum force, excellence speed and lowest weight ratio for best performance in daily use on scrap yard and demolition business. This robust tool can be used for a wide variety of jobs including demolition, scrap processing and tire recycling.

Key Features and Benefits

- Extremely high cutting force and optimal performance to weight ratio because of DemaPower 2.0 system.
- 25% more power achieves a closing force equivalent to shears two sizes up.
- Upside-down cylinder to protect the rod completely.
- Extremely fast cycle times for highest production.
- More cutting force due to offset APEX of shear blades.
- Body made of wear resistant, fine grained steel.
- Heavy duty bearings in the pivot points for a long lifetime.
- Unique, extremely robust Shear Arm Guiding System (SGS).
- Robust mouth design with large opening for scrap .
- Exchangeable and re-weldable piercing tip.
- Main blades are 3 times indexable.
- Unique Blade Locking System (BLS) in upper and lower jaw.
- Heavy duty 360° rotation with slewing ring.
- Filters in rotation circuit.



Exchangeable Wear Parts

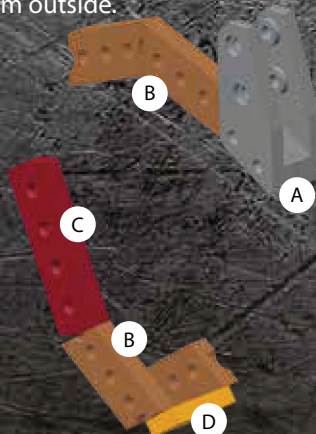
- Exchanging of wear parts on site.
- High wear-resistant wear parts.
- All blades can be loosened from outside.

A Piercing tip.

B Main blades (4x).

C Main Blade (1x).

D Front cutter.



A: DXS-A version, rotating shear, for mount on dipper or boom with a bolt-on adapter.

B: DXS-FQC rotating shear with integrated Fuchs Quick Connect System.

Technical specs Scrap Shears with 360° Rotation or rigid mount (without Rotation)

Type	Weight* (kg)	Length A* (mm)	Jaw opening B (mm)	Jaw depth C (mm)	Primary cutter length (mm)	Cutting force** (kN)	Operating weight [boom] (t)	Operating weight [dipper] (t)
DXS-40-A	3200	2995	630	665	400/121	8320	18-25	25-35
DXS-40-FQC	3425	3365	630	665	400/121	8320	18-25	25-35
DXS-50-A	4500	3281	730	780	450/150	10000	25-35	35-50
DXS-50-FQC	4630	3650	730	780	450/150	10000	25-35	35-50

*excl. adapter **At throat

Type	Opening/ Closing		Rotation		Back pressure max. (bar)	Working cycle Opening/ Closing (sec)
	Pressure max. (bar)	Flow (l/min)	Pressure max. (bar)	Flow (l/min)		
DXS-40-A	380	200-300	140	60	-	3,2 / 3,3
DXS-40-FQC	380	200-300	140	60	-	3,2 / 3,3
DXS-50-A	380	300-400	140	60	-	2,8 / 3,7
DXS-50-FQC	380	300-400	140	60	-	2,8 / 3,7

Steel Profiles		DXS-40	DXS-50
H-beams	light	HEA 400	HEA 500
	normal	HEB 300	HEB 360
	heavy	HEM 160	HEM 180
I-beams	light	IPE 600	IPE 700
	normal	INP 450	IPN 500
L-angles	(mm)	250x250x25	300x300x25
solid round	(mm)	100	115
solid square	(mm)	90	100
piercing plate	(mm)	25	25
pipe x wall	(mm)	406 x 10	457x10

This chart gives an indication of the cutting capacity of the DXS Shears based on the assumption of a working pressure of 350 bar, normal steel profiles with a tensile strength of maximum 370 N/mm², and a good condition of the blades. The DXS Shear divides larger profiles in two cuts as long the web thickness does not exceed the maximum thickness of the piercing plate.

DemaPower2.0
system

Key Features and Benefits

1 Shear Arm

- Heavy duty slim shear arm design guarantees an optimum penetration.
- Rhino horn to pick up plates easily.
- Out of Hituff.

2 Bearings

- Induction-hardened pins are seated in steel bearings.

3 DemaGuide

shear arm guiding system

- Hardened lateral guide plates provide a stable support of the shear arm within the main bearing for a longer lifetime.
- Separate puck system, with own greasing.

4 DemaPower2.0

system

- Upside-down cylinder with DemaPower 2.0.
- 25% more power achieves a closing force equivalent to shears two sizes up.
- Extremely fast cycle times because of speed valve in two directions.
- Cylinder rod completely protected within the body.

5 Heavy Duty Rotation

- 360° continuous rotation.
- Oversized slewing ring is able to bear high forces, shock loads and bending moments.
- Filters in rotation circuit.
- 2 Heavy duty motors for a maximum rotation torque.

6 DemaFilter-System in rotation circuit.

7 Hydraulics

- High capacity swivel helps to avoid high oil temperature and to ensure high oil flow / speed.
- Swivel joint connection at cylinder site to have very short hoses that can easily move.

c DemaSafety

valve system

8 Shear Body

- Strong box design made of high-strength fine grained steel. The shear body ensures highest strength.
- Fast access to hoses and hydraulics through service openings.

9 Performance to Weight Ratio

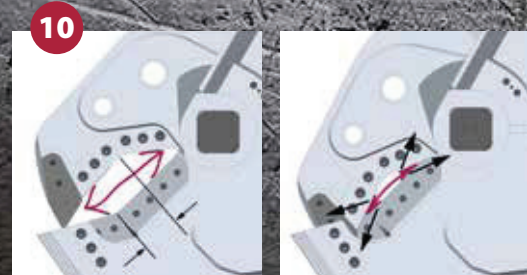
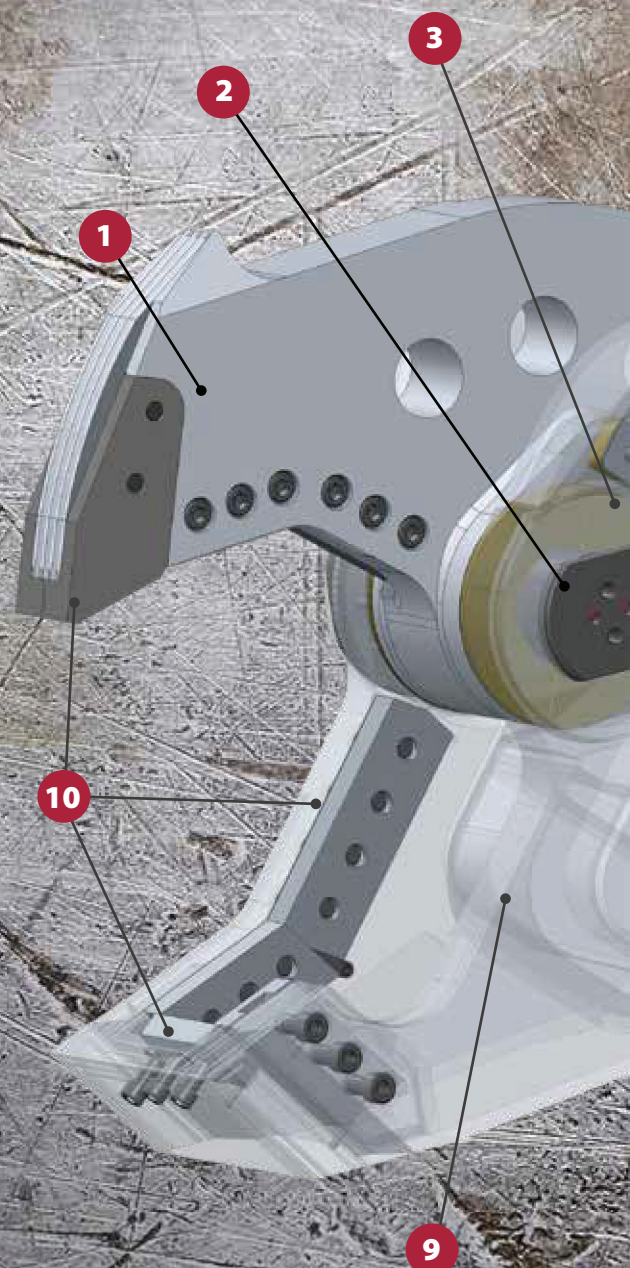
- Endurance tests as well as FEM stress calculations confirm the weight optimized design and provide an excellent weight / power ratio.

10 DemaBlade

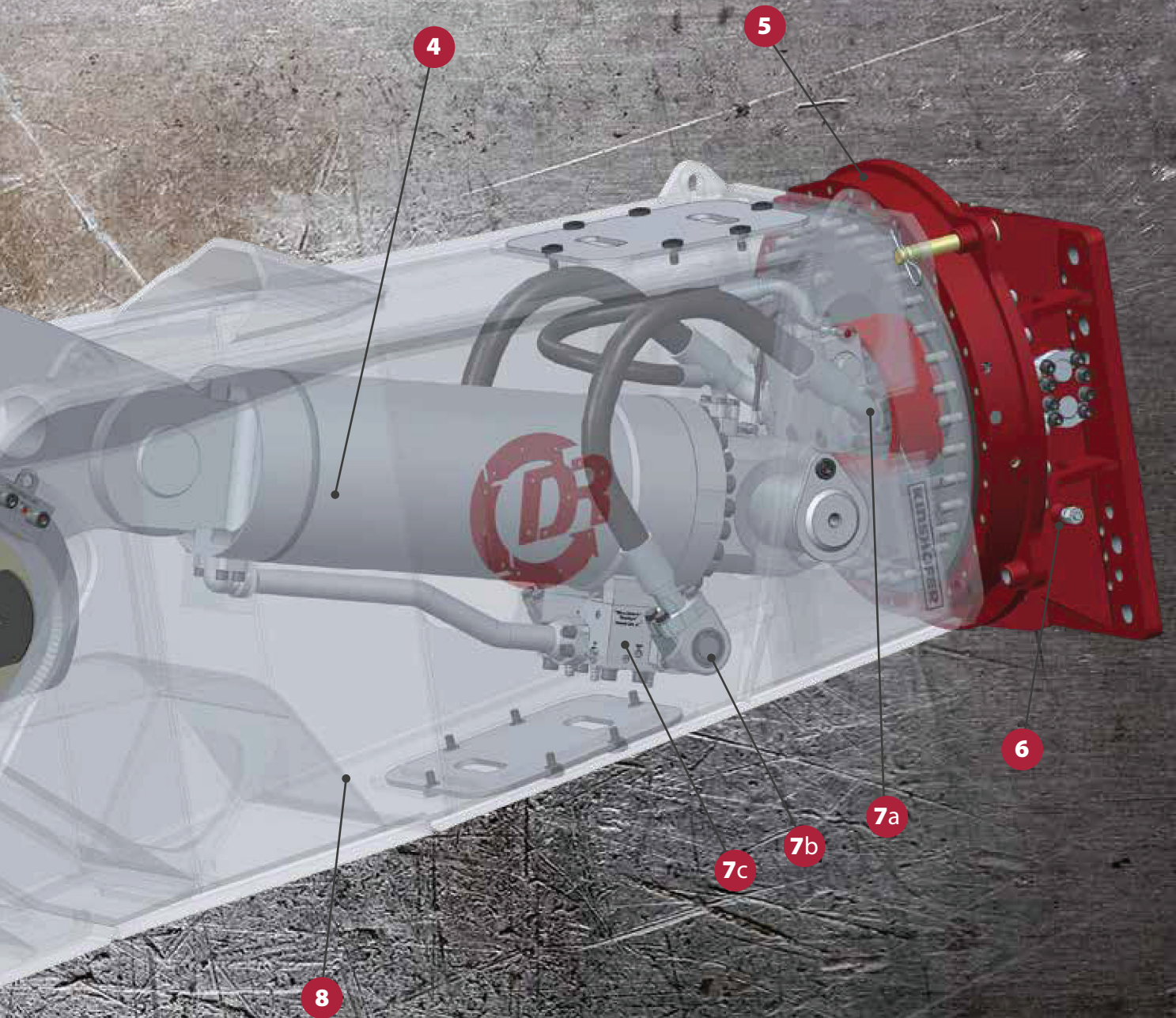
blade locking system

- Optimal mouth design with large opening.
- More cutting capacity due to offset APEX of shear blades.
- Piercing tip is exchangeable and re-weldable.
- All blades can be released from the outside.
- Blade Locking System (BLS) in upper and lower jaw.

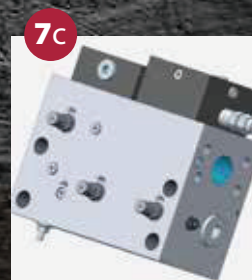
DXS SCRAP SHEARS



Offset APEX: Steel is compressed and molded in the mouth and thus easier to cut.



Shear Arm Guiding System (SGS).



**DemaPower and
DemaSafety
valve block**



**DemaFilter-System
in rotation circuit.**