

DXS SCRAP SHEARS

The DEMAREC DXS mobile scrap shears are engineered to deliver an extremely high cutting force and most optimal performance to weight ratio due to the implementation of the revolutionary DemaPower 2.0 cylinder technology. The patented DemaPower 2.0 Technology is based on four cylinder chambers, two-way oil regeneration for open-close in combination with high cylinder forces in shears. This unique feature results in extremely fast cycle times.

The DemaPower 2.0 system generates 25% more power and fast cycle time which results in a closing force equivalent to shears one to two sizes larger.

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, to 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 (mm)	Jaw opening (A) (mm)	Jaw depth (B) (mm)	Primary cutter length (mm)	Cutting force** (kN)	Operating weight [boom] (t)	Operating weight [dipper] (t)
DXS-40-A	3200	2995	630	665	225/330	8200	18-25	25-40
DXS-40-FQC80	3425	3365	630	665	225/330	8200	18-25	-
DXS-50-A	4500	3280	730	780	250/380	10000	25-35	35-55
DXS-50-FQC80	4630	3650	730	780	250/380	10000	25-35	-
DXS-60-A	5800	3520	820	835	275/380	11500	32-50	50-70
DXS-60-C***	-	-	820	835	275/380	11500	30-50	-
DXS-70-A	6750	3835	900	895	300/440	12200	35-65	60-80
DXS-70-C***	-	-	900	895	300/440	12200	32-65	-

*excl. adapter **At throat *** without rotation, available on request

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	380	200-300	140	40-60	-	3,2 / 3,3
DXS-50	380	300-400	140	40-60	-	2,7 / 3,7
DXS-60	380	400-500	200	60	10***	3,0 / 3,8
DXS-70	380	500-600	200	60	10***	3,0 / 3,8

***drain line required

Steel Profiles		DXS-40	DXS-50	DXS-60	DXS-70
H-beams	light	HEA 400	HEA 500	HEA 600	HEA 700
	normal	HEB 300	HEB 360	HEB 400	HEB 450
	heavy	HEM 140	HEM 160	HEM 180	HEM 200
I-beams	light	IPE 550	IPE 600	IPE 700	IPE 750
	normal	INP 450	IPN 500	IPN 550	IPN 550
L-angles	(mm)	250x250x25	300x300x25	300x300x30	300x300x35
solid round	(mm)	90	95	100	105
solid square	(mm)	80	85	90	95
piercing plate	(mm)	25	25	30	35
pipe x wall	(mm)	406 x 9,5	457 x 9,5	559 x 9,5	608 x 9,5

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. Subject to change without notice.

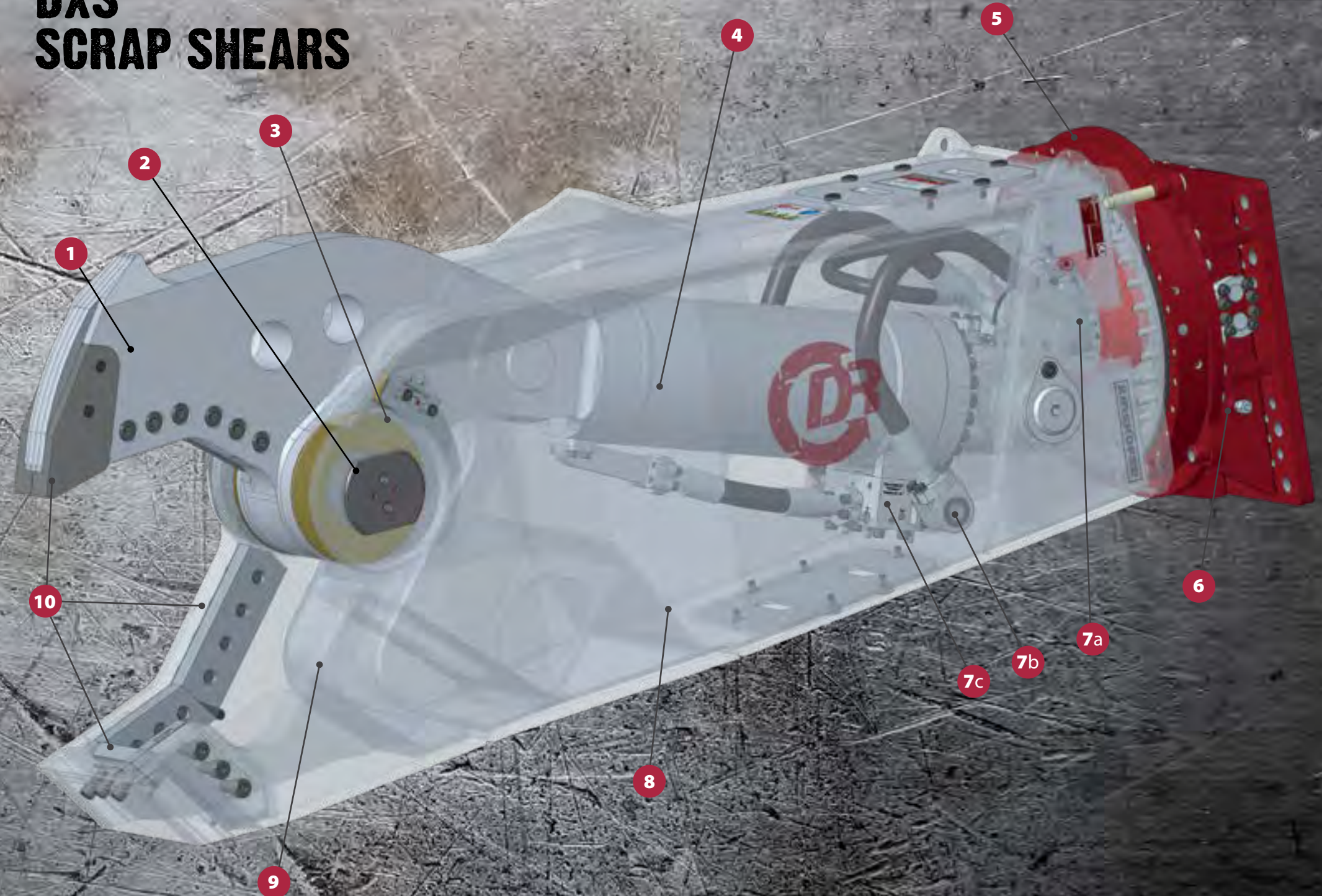


**MORE POWER, MORE SPEED,
MORE TONNES PROCESSED PER DAY**

Key Features and Benefits

- 1 Shear Arm**
 - Heavy Duty slim shear arm design guarantees an optimal penetration
 - Rhino horn to pick up plates easily
 - Out of Hituff
- 2 Bearings**
 - Induction-hardened pins are seated in steel bearings
- 3 DemaGuide**
 - Hardened lateral guide plates provide a stable support of the shear arm within the main bearing for a longer lifetime
 - Seperate puck system, with own greasing
- 4 DemaPower2.0**
 - 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**
 - a High capacity swivel helps to avoid high oil temperature and to ensure high oil flow / speed
 - b Swivel joint connection at cylinder site to have very short hoses that can easily move
 - c **DemaSafety**
- 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**
 - 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

