Mobile Scrap Shears with rotation DRS

The Kinshofer DRS Mobile Shear with its 360° rotation has been engineered to achieve an optimal power to weight ratio. This robust tool can be used for a wide variety of jobs including steel structural demolition, scrap yards, conditioning of industrial mixed scrap and even processing steel-reinforced concrete. With three different mounting options, the DRS line is available in five different sizes, suitable for excavators from 14t to 100t operating weight.

- ▹ **Powerful cylinder with speed valve** – fully protected in the housing.
- ▹ **Housing made of extremely resistant special steel.**
- ▹ **Heavy duty bearings** for reduced bushing wear – without allowance.
- ▹ Very high cutting force: **optimal power to weight ratio.** Robust mouth.
- ▹ Optimal mouth design with **large opening for scrap.**
- ▹ **More cutting force** by displaced angles of the two cutting blades.
- ▹ **All wear cutting blades can be turned four times** and – whenever material gets jammed – be loosened from outside.
- ▹ **Exchangeable, weldable piercing tip.**

Mobile Scrap Shear DRS with 360° rotation

Type	Weight (w/o adapter) (kg)	Length A (mm)	Jaw width B (mm)	Jaw depth C (mm)	Main blade length (mm)	Cutting force* (kN)	Operating weight (boom) (t)	Operating weight (dipper) (t)
DRS-25-A	2150	2740	500	460	180 / 280	4975	14 - 20	20 - 30
DRS-30-A	3100	2975	580	490	200 / 300	6750	18 - 25	25 - 35

* cutting force calculated at a distance of 120 mm (DRS-25) / 140 mm (DRS-30) from center of pin

Hydraulics

Type	Open / close Pressure max. (bar)	Open / close Flow (bar)	Rotation Pressure max. (bar)	Rotation Flow (l/min)	Back pressure (bar)	Cycle times open/close (sec)
DRS-25	**380**	150 - max. 250	**140**	40 - max. 60	-	2,4 / 2,3
DRS-30	**380**	200 - max. 300	**140**	40 - max. 60	-	2,9 / 3,0

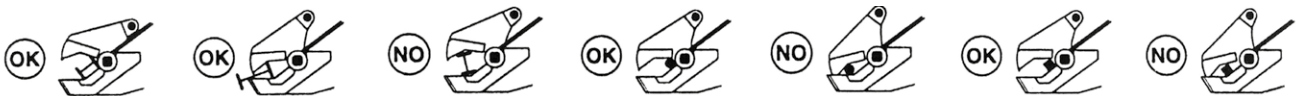
Performance data

Type	Narrow I-beam	Medium I-beam	Narrow H-beam	Medium H-beam	Wide H-beam
DRS-25	IPE 450	INP 320	HEA 280	HEB 200	HEM 100
DRS-30	IPE 500	INP 400	HEA 340	HEB 260	HEM 140

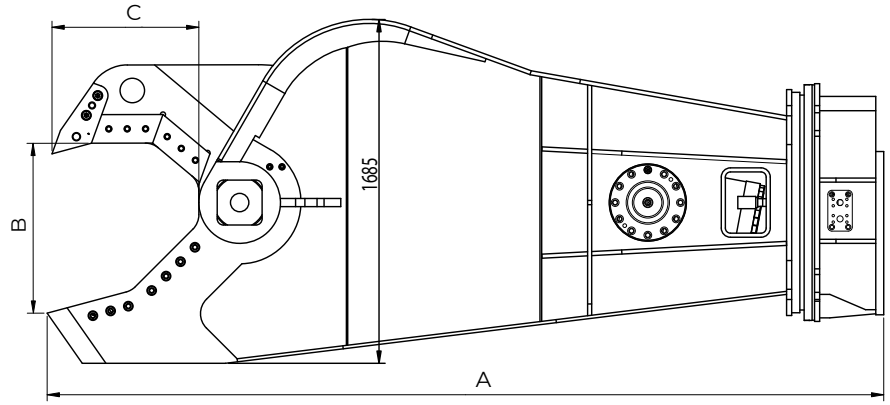
Type	Round angle steel	Hot rolled round steel	Hot rolled square steel	Metal sheet thickness	Steel tube Ø x thickness
DRS-25	200 x 200 x 15	Ø 75	65 x 65	15	254 x 9 (16“)
DRS-30	250 x 250 x 20	Ø 90	80 x 80	20	304 x 10 (12“)

Dimensions: standardized wide flange beams (HEA, HEB, HEM) and section steel (IPE, INP) according to DIN EN 10 034 or cross section / sheet thickness in mm

Note: The capability to cut the above profiles assumes the tensile strength of the steel 370 N/mm² as well as the shear operating pressure of 350 bar / 5040 psi. In borderline cases, we recommend an actual test cut is made to determine whether the profile in question can be cut. Larger beams can be often cut in two steps.



Technical drawing



DRS-A
with rotation and bolt-on adapter**

** adapter not included

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Mobile Scrap Shear DRS with 360° rotation / rigid mount (w/o rotation)

Type	Weight (w/o adapter) (kg)	Length A (mm)	Jaw width B (mm)	Jaw depth C (mm)	Main blade length (mm)	Cutting force* (kN)	Operating weight (boom) (t)	Operating weight (dipper) (t)
DRS-90-A	8500	4800	960	815	350 / 480	19450	45 - 80	75 - 100
DRS-90-B	8600	4920	960	815	350 / 480	19450	45 - 80	-
DRS-90-C	7700	4005	960	815	350 / 480	19450	40 - 70	-

* cutting force calculated at a distance of 160 mm from center of pin

Hydraulics

Type	Open / close		Rotation		Back pressure	Cycle times open/close
	Pressure max. (bar)	Flow (bar)	Pressure max. (bar)	Flow (l/min)	(bar)	(sec)
DRS-90	**380**	700 - max. 1000	**200**	max. 60	**10**	3,5 / 2,5

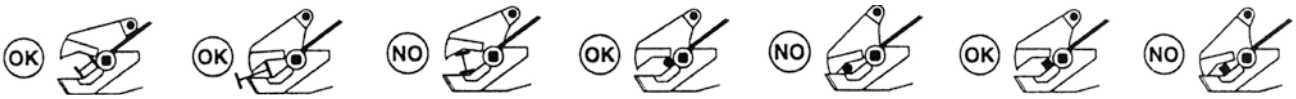
Performance data

Type	Narrow I-beam	Medium I-beam	Narrow H-beam	Medium H-beam	Wide H-beam
DRS-90	IPE 900	INP 600	HEA 700	HEB 450	HEM 220

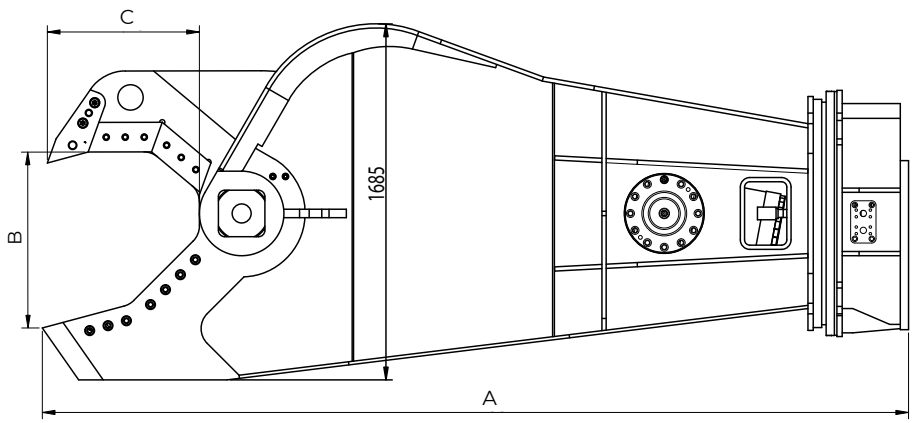
Type	Round angle steel	Hot rolled round steel	Hot rolled square steel	Metal sheet thickness	Steel tube Ø x thickness
DRS-90	350 x 350 x 30	Ø 150	135 x 135	35	609 x 10 (24“)

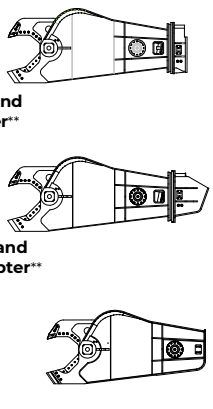
Dimensions: standardized wide flange beams (HEA, HEB, HEM) and section steel (IPE, INP) according to DIN EN 10 034 or cross section / sheet thickness in mm

Note: The capability to cut the above profiles assumes the tensile strength of the steel 370 N/mm² as well as the shear operating pressure of 350 bar / 5040 psi. In borderline cases, we recommend an actual test cut is made to determine whether the profile in question can be cut. Larger beams can be often cut in two steps.



Technical drawings





DRS-A
with rotation and bolt-on adapter**

DRS-B
with rotation and welde-on adapter**

DRS-C
with weld-on adapter rigid**

** adapter not included