DRS

Mobile Shears with 360° Rotation

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 concrete and 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 / 30800 lbs to 100t / 220000 lbs 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 and concrete.
- 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.
- Heavy duty 360° rotation with oversized slewing ring, driven by (two) motors. Also available without rotation.

Mobile Shears with 360° Rotation DRS / rigid mount (without Rotation)

Type	Weight (w/o adapter) (kg/lbs)	Length A (w/o adapter) (mm/in)	Jaw opening B (mm/in)	Jaw depth C (mm/in)	Primary cutter length (mm/in)	Cutting force* (kN/lbf)	Operating weight (boom) (t/lbs)	Operating weight (dipper) (t/lbs)
DRS-25-A	2150 / 4730	2740 / 107.87	500 / 19.69	460 / 18.11	180/280 / 7.09/11.02	4600 / 1012000	14 - 20 / 30800 - 44000	20 - 30 / 44000 - 66000
DRS-30-A	3100 / 6820	2965 / 116.73	570 / 22.44	490 / 19.29	200/300 / 7.87/11.81	6700 / 1474000	18 - 25 / 39600 - 55000	25 - 35 / 55000 - 77000
DRS-45-A	4100 / 9020	3290 / 129.53	625 / 24.61	540 / 21.26	225/330 / 8.89/12.99	8210 / 1806200	25 - 35 / 55000 - 77000	32 - 50 / 70400 - 110000
DRS-60-A	5550 / 12210	3660 / 144.09	720 / 28.35	620 / 24.41	250/380 / 9.84/14.96	10990 / 2417800	30 - 50 / 66000 - 110000	45 - 65 / 99000 - 143000
DRS-60-B	5640 / 12410	4100 / 161.42	720 / 28.35	620 / 24.41	250/380 / 9.84/14.96	10990 / 2417800	30 - 50 / 66000 - 110000	-
DRS-60-C	4850 /10670	3285 / 129.33	720 / 28.35	620 / 24.41	250/380 / 9.84/14.96	10990 / 2417800	25 - 35 / 55000 - 77000	-
DRS-75-A	6950 / 15290	4075 / 160.43	835 / 32.87	720 / 28.35	300/440 / 11.81/17.32	14270 / 3139400	35 - 65 / 77000 - 143000	60 - 80 / 132000 - 176000
DRS-75-B	7050 / 15510	4550 / 179.13	835 / 32.87	720 / 28.35	300/440 / 11.81/17.32	14270 / 3139400	35 - 65 / 77000 - 143000	-
DRS-75-C	6200 / 13640	3650 / 143.70	835 / 32.87	720 / 28.35	300/440 / 11.81/17.32	14270 / 3139400	30 - 50 / 66000 - 110000	-
DRS-90-A	8500 / 18700	4800 / 188.98	950 / 37.40	815 / 32.09	350/480 / 13.78/18.90	19450 / 4279000	45 - 80 / 99000 - 176000	75 - 100 / 165000 - 220000
DRS-90-B	8600 / 18920	5000 / 196.85	950 / 37.40	815 / 32.09	350/480 / 13.78/18.90	19450 / 4279000	45 - 80 / 99000 - 176000	-
DRS-90-C	7700 / 16940	4100 / 161.42	950 / 37.40	815 / 32.09	350/480 / 13.78/18.90	19450 / 4279000	40 - 70 / 88000 - 154000	-

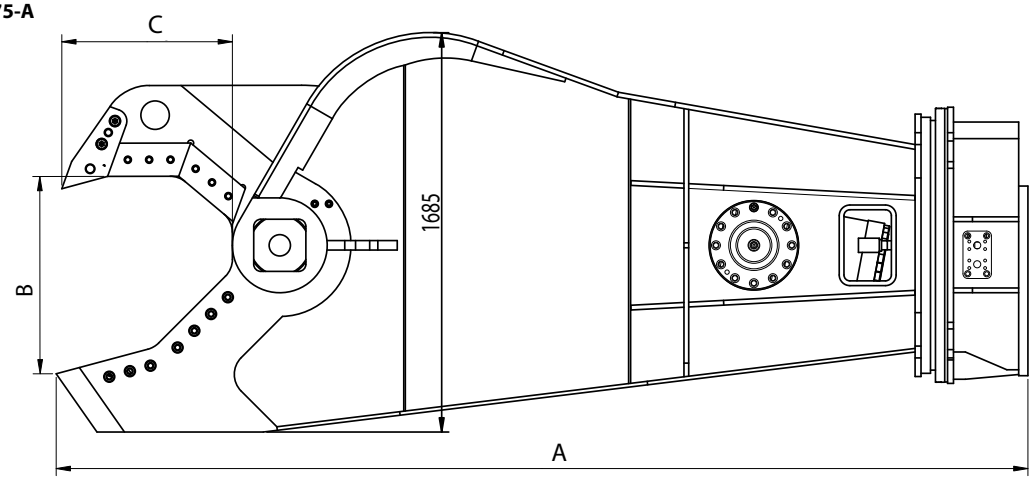
*cutting force calculated at a distance of 120 mm / 4.72 in (DRS-25) / 140 mm / 5.51 in (DRS-30) / 160 mm / 6.30 in (DRS-45 to DRS-90) from center of pin

Hydraulics

Type	Open/ Close		Rotate		Back pressure	Working cycle
	Pressure max. (bar/psi)	Flow (l/min / GPM)	Pressure max. (bar/psi)	Flow (l/min / GPM)	max. (bar/psi)	Open/ Close (sec)
DRS-25	**380 / 5472**	150 - 250 / 39.63 - 66.05	**140 / 2016**	40 - 60 / 10.57 - 15.85	-	2.4 / 2.3
DRS-30	**380 / 5472**	200 - 300 / 52.84 - 79.26	**140 / 2016**	40 - 60 / 10.57 - 15.85	-	2.9 / 3.0
DRS-45	**380 / 5472**	300 - 400 / 79.26 - 105.68	**140 / 2016**	40 - 60 / 10.57 - 15.85	-	3.7 / 2.2
DRS-60	**380 / 5472**	400 - 600 / 105.68 - 158.52	**200 / 2880**	60 / 15.85	**10 / 144** (drain line required)	3.0 / 2.2
DRS-75	**380 / 5472**	600 - 800 / 158.52 - 211.36	**200 / 2880**	60 / 15.85	**10 / 144** (drain line required)	3.0 / 2.5
DRS-90	**380 / 5472**	700 - 1000 / 184.94 - 264.20	**200 / 2880**	80 / 21.14	**10 / 144** (drain line required)	3.5 / 2.5

Technical Drawings

DRS-75-A



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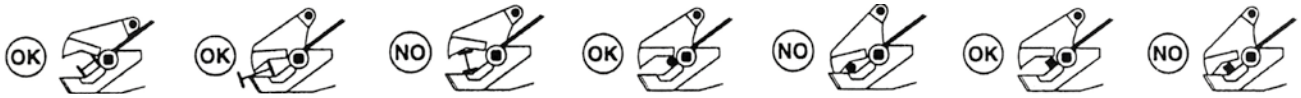
Performance Data

Type	Narrow I-beam	Middle I-beam	Narrow H-beam	Middle 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
DRS-45	IPE 600	INP 450	HEA 400	HEB 300	HEM 160
DRS-60	IPE 700	INP 500	HEA 500	HEB 360	HEM 180
DRS-75	IPE 800	INP 550	HEA 600	HEB 400	HEM 200
DRS-90	IPE 900	INP 600	HEA700	HEB 450	HEM 220

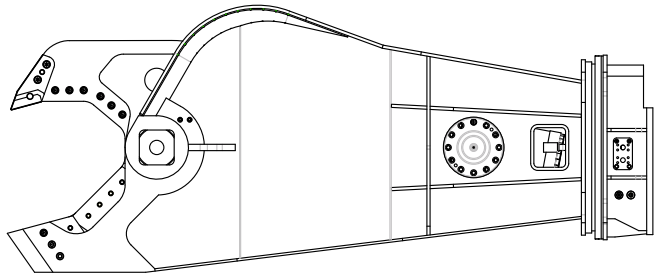
Type	Round angle steel	Hot rolled round steel	Hot rolled square steel	Sheet steel thickness	Steel tube Ø x thickness
DRS-25	200 x 200 x 15 / 7.87 - 7.87 x 0.59	Ø 75 / 2.95	65 x 65 / 2.56 x 2.56	15 / 0.59	254 x 9 (16“) / 10.00 x 0.35
DRS-30	250 x 250 x 20 / 9.84 x 9.84 x 0.79	Ø 90 / 3.54	80 x 80 / 3.15 x 3.15	20 / 0.79	304 x 10 (12“) / 11.97 x 0.39
DRS-45	250 x 250 x 25 / 9.84 x 9.84 x 0.98	Ø 100 / 3.94	90 x 90 / 3.54 x 3.54	25 / 0.98	406 x 10 (16“) / 15.98 x 0.39
DRS-60	300 x 300 x 25 / 11.81 x 11.81 x 0.98	Ø 115 / 4.53	100 x 100 / 3.94 x 3.94	25 / 0.98	457 x 10 (18“) / 17.99 x 0.39
DRS-75	300 x 300 x 30 / 11.81 x 11.81 x 1.18	Ø 130 / 5.12	120 x 120 / 4.72 x 4.72	30 / 1.18	559 x 10 (22“) / 22.01 x 0.39
DRS-90	350 x 350 x 30 / 13.78 x 13.78 x 1.18	Ø 150 / 5.91	135 x 135 / 5.31 x 5.31	35 / 1.38	609 x 10 (24“) / 23.98 x 0.39

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 / in

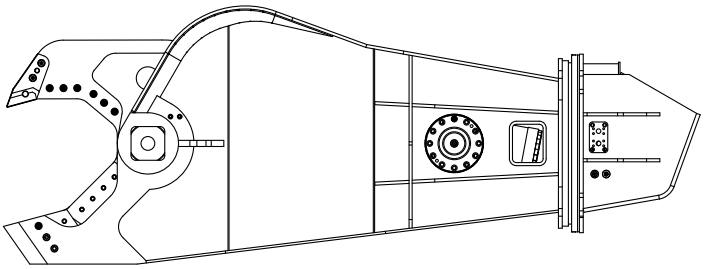
Note: The capability to cut the above profiles assumes the tensile strength of the steel 370 N/mm² as well as the shear operating pressure of 350 bar / 5040 psi. In borderline cases, we recommend an actual test cut is made to determine whether the profile in question can be cut. Larger beams can be often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



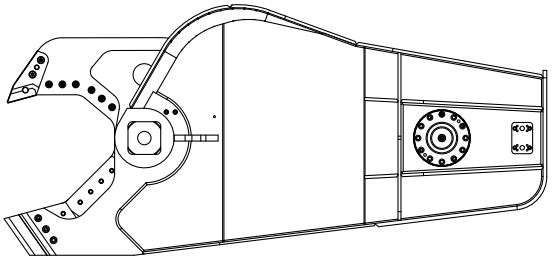
Technical Drawings



DRS-75-A
rotating, for mount on dipper or boom with a bolt-on adapter**



DRS-75-B
rotating, for mount on boom with a weld-on adapter**



DRS-75-C
non-rotating, for mount on boom with a weld-on adapter**

**note: adapters are not inclusive