

**DS Series Mobile Scrap & Demolition Shears with 180° Swivel Range**  
for carriers from 17,600 to 154,000 lbs.



## ***The DS Series Mobile Scrap & Demolition Shears provide versatility and power with 180° rotation.***

Muscle Mate's new DS Series of Mobile Scrap & Demolition Shears are superior tools with all the very latest features for scrap yards and demolition sites, ideally designed for demolishing steel structures, scrapping motor vehicles, rail cars, ships and tanks, cutting large tires to size, and general processing of industrial and mixed scrap. They are also very productive when used for cutting cable and steel wire, railway rails and concrete demo with heavy rebar.

- **Reliable 180° rotation system:** Highly stress-resistant rotation means every working position can be quickly and precisely reached. Heavy loads can be lifted and moved with the shear in any position.
- **Protected power cylinder:** Massive power cylinder's rod is designed for total protection during its cycle; oil is supplied via the piston rod. Cylinder is actually in reversed position: as shear arm closes, the cylinder barrel moves outward while rod remains protected in shear housing.
- **Oversized main bearing:** Large dimension of shear arm bearing means minimal wear to pin and bushing.
- **Highest grade materials:** Shear arm is constructed of wear-resistant fine grain steel; reinforcing plates on both sides serve as wear plates. Main housing is also made from top quality fine grain steel.
- **Advanced arrangement of cutter blades for high productivity:** Front cutter, wear cutter and wear tip interact to allow thin-walled objects and components to be swiftly pierced and cut: tanks, motor vehicles, chassis, etc. are processed with ease. Unique wear tip ensures rapid penetration of shear arm through tanks, plate structures, large diameter pipes, etc. Front and side cutters have been positioned and designed to discourage shear arm jamming. Main cutters can be turned four times.

**DS Series Mobile Scrap & Demolition Shears**

For dimensions and specifications see the back of this page.

# Specifications:

Model		DS 700 R	DS 2000 R	DS 3000 R	DS 4000 R	DS 5000 R	DS 8000 R	DS 10000 R	
Approximate weight (w/o bracket)	lbs	2770	3960	6490	9020	14,300	18,700	27,060	
	kg	1260	1800	2950	4100	6500	8500	12,300	
Length (w/o bracket)	in/mm	92.9 / 2360	111.8 / 2840	133.3 / 3385	135.8 / 3450	178.0 / 4520	193.7 / 4920	230.9 / 5865	
Jaw opening	in/mm	13.4 / 340	13.8 / 350	21.7 / 550	21.7 / 550	28.1 / 715	32.7 / 830	43.7 / 1110	
Jaw depth	in/mm	14.2 / 360	18.9 / 480	20.9 / 530	20.9 / 530	31.9 / 810	33.9 / 860	42.5 / 1080	
Primary cutter length	in/mm	7.9 / 200	9.8 / 250	11.8 / 300	11.8 / 300	17.7 / 450	17.7 / 450	21.6 / 550	
Max. shear force throat/ primary blade center	US tons	162 / 92	324 / 163	360 / 185	516 / 259	865 / 373	951 / 442	1173 / 539	
	kN	1445 / 824	2890 / 1450	3195 / 1646	4596 / 2303	7710 / 3320	8475 / 3940	10,457 / 4802	
Recommended oil flow hydraulic cylinder	gal/min	21-42	32-53	37-58	48-79	79-106	92-145	158-211	
	l/min	80-160	120-200	140-220	180-300	300-400	350-550	600-800	
Recommended oil flow rotation cylinder	gal/min	2	3-4	3-4	5-7	11-13	21-24	21-24	
	l/min	6-8	12-15	12-15	18-25	40-50	80-90	80-90	
Approx. excavator weight size	<b>Boom</b>	lbs	17,600	26,400	39,600	48,400	74,800	92,400	154,000
		kg	8000	12,000	18,000	22,000	34,000	42,000	70,000
	<b>Dipper Stick</b>	lbs	30,800	44,000	57,200	66,000	110,000	176,000	-
		kg	14,000	20,000	26,000	30,000	50,000	80,000	-

## Maximum shearing capacity

Model	DS 700 R in/mm	DS 2000 R in/mm	DS 3000 R in/mm	DS 4000 R in/mm	DS 5000 R in/mm	DS 8000 R in/mm	DS 10000 R in/mm
Narrow I-beams: I-range	8.6 x 3.8 220 x 98	11.8 x 4.9 300 x 125	13.3 x 5.3 340 x 137	15.7 x 6.1 400 x 155	19.7 x 7.2 500 x 185	21.6 x 7.8 >550 x 200	23.6 x 8.4 >600 x 215
Med. wide I-beams: IPE-range	9.4 x 4.7 240 x 120	13.0 x 6.3 330 x 160	15.7 x 7.0 400 x 180	19.7 x 7.8 500 x 200	23.6 x 8.6 >600 x 220	29.5 x 9.0 750 x 230	29.5 x 9.0 >750 x 230
Wide I-beams: IPB/HEB-range	4.7 x 4.7 120 x 120	7.7 x 7.7 180 x 180	7.8 x 7.8 200 x 200	9.4 x 9.4 240 x 240	14.1 x 11.8 >360 x 300	15.7 x 11.8 >400 x 300	23.6 x 11.8 600 x 300
Wide I-beams: IPBL/HEA-range	5.2 x 5.5 133 x 220	8.2 x 8.6 210 x 220	9.8 x 10.2 250 x 260	11.4 x 11.8 290 x 300	17.3 x 11.8 440 x 300	21.6 x 11.8 550 x 300	27.1 x 11.8 >690 x 300
Wide I-beams: IPBv/HEM-range	n/a	4.7 x 4.1 120 x 106	6.3 x 5.7 160 x 146	7.8 x 7.3 200 x 186	9.4 x 8.9 >240 x 226	10.6 x 9.7 >270 x 248	12.2 x 11.3 >310 x 288
Normal U-channel steel	7.0 x 2.7 180 x 70	11.8 x 3.9 300 x 100	14.9 x 4.0 380 x 102	17.7 x 4.7 450 x 120	19.7 x 4.9 >500 x 125	25.6 x 4.9 650 x 125	25.6 x 4.9 >650 x 125
Normal angle iron steel	4.7 x 0.47 130 x 12	7.0 x 0.78 180 x 20	7.8 x 0.78 200 x 20	7.8 x 0.94 >200 x 24	7.8 x 0.94 >200 x 24	7.8 x 0.94 >200 x 24	7.8 x 0.94 >200 x 24
Hot rolled solid round steel	Ø 2.28 Ø 58	Ø 3.54 Ø 90	Ø 4.09 Ø 104	Ø 4.72 Ø 120	Ø 5.91 Ø 150	Ø 6.50 Ø 165	Ø 7.28 Ø 185
Hot rolled square bar steel	1.97 x 1.97 50 x 50	3.1 x 3.1 80 x 80	3.5 x 3.5 90 x 90	4.1 x 4.1 105 x 105	5.3 x 5.3 135 x 135	5.7 x 5.7 145 x 145	6.3 x 6.3 160 x 160

TRAMAC CORPORATION reserves the right to change or discontinue models and/or specifications without prior notice.

### Quality and dependability: two features you can count on with every MUSCLE MATE product.

All MUSCLE MATE products are engineered for superior performance, manufactured to the most exacting specifications, and—within the guidelines of the industry's most rigid quality control program—thoroughly inspected at every stage of production. All working parts are precision-machined to the closest tolerances, and all materials meet or exceed the highest industry standards. These are but a few of the many vital reasons major contractors worldwide choose our products. *They know that with MUSCLE MATE, reliability is crucial; a basic component conscientiously built into every unit that bears our name.*



Muscle Mate is a Tramac Corporation brand.

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