



Vibra-Ram Inc.

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Mobile Scrap and Demolition Shears
Series DS

Mobile Scrap and Demolition Shears - Maximum Shearing Capability

Model		DS 700 R mm in	DS 2000 R mm in	DS 3000 R mm in	DS 4000 R mm in	DS 5000 R mm in	DS 8000 R mm in	DS 10000 R mm in
Narrow I-beams I-range	I	220x98 8.6x3.8	300x125 11.8x4.9	340x137 13.3x5.3	400x155 15.7x6.1	500x185 19.7x7.2	>550x200 21.6x7.8	>600x215 23.6x8.4
Medium wide I-beam IPE-range	I	240x120 9.4x4.7	330x160 13.0x6.3	400x180 15.7x7.0	500x200 19.7x7.8	>600x220 23.6x8.6	750x230 29.5x9.0	>750x230 29.5x9.0
Wide I-beam IPB/HEB-range	I	120x120 4.7x4.7	180x180 7.0x7.0	200x200 7.8x7.8	240x240 9.4x9.4	>360x300 14.1x11.8	>400x300 15.7x11.8	600x300 23.6x11.8
Wide I-beam IPBL/HEA-range	I	133x220 5.2x5.5	210x220 8.2x8.6	250x260 9.8x10.2	290x300 11.4x11.8	440x300 17.3x11.8	550x300 21.6x11.8	>690x300 27.1x11.8
Wide I-beam IPBv/HEM-range	I	---- ----	120x106 4.7x4.1	160x146 6.3x5.7	200x186 7.8x7.3	>240x226 9.4x8.9	>270x248 10.6x9.7	>310x288 12.2x11.3
Normal U-channel Steel	[180x70 7.0x2.7	300x100 11.8x3.9	380x102 14.9x4.0	450x120 17.7x4.7	>500x125 19.7x4.9	650x125 25.6x4.9	>650x125 25.6x4.9
Normal angle iron steel	L	120x12 4.7x0.47	180x20 7.0x0.78	200x20 7.8x0.78	>200x24 7.8x0.94	>200x24 7.8x0.94	>200x24 7.8x0.94	>200x24 7.8x0.94
Hot rolled solid round steel	●	Ø 58 2.28	Ø 90 3.54	Ø 104 4.09	Ø 120 4.72	Ø 150 5.91	Ø 165 6.50	Ø 185 7.28
Hot rolled square bar steel	■	50x50 1.97x1.97	80x80 3.1x3.1	90x90 3.5x3.5	105x105 4.1x4.1	135x135 5.3x5.3	145x145 5.7x5.7	160x160 6.3x6.3

The shape, position and strength of the steel, as well the conditions of the cutters and excavator determine how effectively the material can be cut. The capability to cut the above profiles assumes the tensile strength of the steel 370 N/mm² (52,613 lbs/inch²) as well as shear operating pressure of 350 bar (4,980 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. First the beam web is pierced with the tip of the shear arm and then the beam flange is cut. Subsequently the rest of the beam can be sheared in one cut.



Technical Data

We reserve the right to make technical modifications/series and measurement changes

Model	Approx. service weight excluding mounting bracket	Length	Jaw opening	Jaw depth	Primary cutter- length	Max. shear force throat/primary blade center	Recom. oil flow hydraulic cylinder	Recom. oil flow rotation cylinder	Approx. excavator weight size*	
	kg lbs								mm in	mm in
DS 700 R	1,260 2,770	2,360 92.9	340 13.4	360 14.2	200 7.9	1,445/824 162/92	80-160 21-42	6-8 2	8,000 17,600	14,000 30,800
DS 2000 R	1,800 3,960	2,840 111.8	350 13.8	480 18.9	250 9.8	2,890/1,450 324/163	120-200 32-53	12-15 3-4	12,000 26,400	20,000 44,000
DS 3000 R	2,950 6,490	3,385 133.3	550 21.7	530 20.9	300 11.8	3,195/1,646 360/185	140-220 37-58	12-15 3-4	18,000 39,600	26,000 57,200
DS 4000 R	4,100 9,020	3,450 135.8	550 21.7	530 20.9	300 11.8	4,596/2,303 516/259	180-300 48-79	18-25 5-7	22,000 48,400	30,000 66,000
DS 5000 R	6,500 14,300	4,520 178.0	715 28.1	810 31.9	450 17.7	7,710/3,320 865/373	300-400 79-106	40-50 11-13	34,000 74,800	50,000 110,000
DS 8000 R	8,500 18,700	4,920 193.7	830 32.7	860 33.9	450 17.7	8,475/3,940 951/442	350-550 92-145	80-90 21-24	42,000 92,400	80,000 176,000
DS 10000 R	12,300 27,060	5,865 230.9	1,110 43.7	1,080 42.5	550 21.6	10,457/4,802 1,173/539	600-800 158-211	80-90 21-24	70,000 154,000	---- ----

* Decisive for the choice of the shear is the payload of the excavator.

** US tons

For all models of the series DS:

*Max. working pressure - Hydraulic cylinder

*Max. working pressure - Rotation

*Rotation

320 bar/4,550 psi

200 bar/2,840 psi

180° Rotation cylinder