



HYDRAULIC CRUSHERS & GRABS



WHERE **EXPERIENCE COUNTS**

VR-ER SERIES

SCRAP SHEAR - VR-ER SERIE -

FRD scrap shears are used for demolition of complete steel constructions as well as for reducing on the ground in foundries, garbage dumps and waste recycling. These Hardox 400 machines are manufactured in FRD quality, which means that safety and reliability is promised in even in the toughest applications.

- Extremely stable housing with low weight
- Speed valve for quick and efficient work
- Blade with trapezoidal profile improves the cutting line
- Innovative adjuster on the jaw
- Replaceable wear parts



		VR4ER	VR7ER	VR15ER	VR18ER-2	VR30ER-3	VR-40ER3	VR50ER-3	VR68ER-3	VR80ER-3
Total length	mm	1855	2080	2277	2666	3227	3726	3690	4338	4450
Jaw depth	mm	348	348	481	510	606	710	720	852	1200
Jaw opening	mm	350	415	450	480	575	670	740	830	870
Cutting force back	kN	1250	2100	2750	4000	6200	7300	8900	10000	12000
Cutting force front	kN	320	600	610	950	1460	1650	1950	2200	2400
Round material	mm	30	40	45	55	65	70	75	85	100
Square material	mm	25	30	35	40	50	55	60	70	85
Flat material	mm	6	8	10	15	20	22	25	30	35
IPE-Profile	mm	100	120	200	300	400	450	500	550	600
H-Profile	mm	70	80	140	200	260	280	320	360	400
Oil flow (rotation)	l/min	5 - 8	5 - 8	20 - 30	20 - 30	20 - 30	20 - 30	40 - 50	40 - 50	40 - 50
Operating pressure (rotation)	MPa	12	12	12	12	12	12	12	12	12
Rotation		360°	360°	360°	360°	360°	360°	360°	360°	360°
Oil flow	l/min	70 - 110	90 - 140	150 - 250	200 - 300	280 - 350	300 - 450	350 - 500	400 - 600	500 - 800
Operating pressure	MPa	20 - 25	28 - 32	35	35	35	35	35	35	35
Operating weight	kg	435	770	1190	2120	3260	4200	5000	6820	8100
Excavator (boom top)	t	2 - 6	5 - 8	8 - 14	14 - 20	20 - 30	25 - 40	30 - 50	40 - 60	50 - 80
Excavator (stick)	t	5 - 8	8 - 14	13 - 20	19 - 28	27 - 39	32 - 45	38 - 55	50 - 70	70 - 110

Specifications subject to change without notice..

WHERE EXPERIENCE COUNTS

VR-ER SERIES

		VR100ER-3	VR150ER-3	VR200ER-3
Total length	mm	5360	6200	7100
Jaw depth	mm	1320	1600	1700
Jaw opening	mm	1004	1145	1225
Cutting force back	kN	13200	16000	17000
Cutting force front	kN	2800	3550	4600
Round material	mm	110	140	165
Square material	mm	90	120	140
Flat material	mm	40	45	50
IPE-Profile	mm	750	950	1100
H-Profile	mm	550	600	750
Oil flow (rotation)	l/min	80 - 100	80 - 100	80 - 100
Operating pressure (rotation)	MPa	12	12	15
Rotation		360°	360°	360°
Oil flow	l/min	700 - 1000	900 - 1200	1000 - 1500
Operating pressure	MPa	35	35	35
Operating weight	kg	10200	15100	20900
Excavator (boom top)	t	60 +	80 +	110 +
Excavator (stick)	t	85 +	120 +	170 +



	VR15ER	VR18ER-2	VR30ER-3	VR40ER-3	VR50ER-3	VR68ER-3	VR80ER-3	VR100ER-3	VR150ER-3
150	4,1/1,6								
200	3,1/1,2	2,8/2,8							
250	2,4/1,0	2,2/2,2	3,0/4,9						
300		1,8/1,8	2,5/4,1	3,1/5,1					
350			2,1/3,5	2,7/4,3	3,9/5,5				
400				2,3/3,8	3,4/4,8	4,4/6,1			
450				2,1/3,4	3,0/4,3	3,9/5,5			
500					2,7/3,8	3,5/4,9	3,9/6,0		
600						2,9/4,1	3,3/5,0		
700							2,8/4,2	3,6/5,6	
800							2,4/3,7	3,2/4,9	
900								2,8/4,3	4,4/6,0
1000								2,5/3,9	4,0/5,4
1100									3,6/4,9
1200									3,3/4,5

Specifications subject to change without notice.