

SECONDARY CRUSHER

A FULL RANGE OF INDESTRUCTIBLE PRODUCTS FOR DEMANDING QUARRY AND DEMOLITION WORK: CRUSHING, BREAKING, ROAD WORKS, LANDSCAPING, TRENCHING, SITE PREPARATION, PILE DRIVING, TUNNELLING AND DEMOLITION.

FRD SECONDARY CRUSHER - VS SERIES -

To crush concrete for recycling, separate reinforcing steel from concrete and crush asphalt roads.

- Extremely stable housing with low dead weight
- Speed valve for quick and efficient work
- Crushing mouth with optimized shape for easy pick-up and loading of reinforcing steel
- Optimum tooth geometry also prevents slipping with large concrete sections of the crushed material
- Cylinder protection as standard



VS22FTR



VS30FT

		VS15 FT	VS22 FT	VS22 FTR	VS30 FT
Operating weight ¹⁾	kg	1090	1780	2300	2650
Opening width	mm	740	840	840	1030
Total length	mm	1640	1930	1930	2218
Width	mm	428	496	496	600
Crushing force, front	kN	560	670	670	1050
Crushing force, mitte	kN	770	970	970	1370
Crushing force, cutter centre	kN	1230	1730	1730	2060
Cutter length	mm	160	180	180	240
Oil flow	l/min	80 - 150	150 - 250	150 - 250	150 - 400
Operating pressure	bar	280 - 320	280 - 320	280 - 320	280 - 320
Hose inner dia Ø HD	mm	19	25	25	25
360° rotation		no	no	yes	no
Base machine weight	t	10 - 20	17 - 26	20 - 30	26 - 40
Acceleration valve			yes		
Opening and closing speed by	l/min	116	180	180	400
Open	sec.	2,8	2,2	2,2	2,2
Close	sec.	2,8	2,7	2,7	1,4

Specifications subject to change without notice. ¹⁾ Operating weight without top bracket

WHERE EXPERIENCE COUNTS

OUTSTANDING DEALER NETWORK



WHERE EXPERIENCE COUNTS

"What we mean by service to our clients includes same day repair and part delivery, fast repair on location in the event of a rare break down or immediate replacement machine. We have a great name to uphold. We intend to keep it that way."

LOCAL SERVICE AND SUPPORT

FRD seeks firstly to supply a product of undoubted integrity. Then back this up with a support network of dedicated dealers to ensure whatever support, wherever and whenever needed. The FRD-dealer combination has been made unbeatable.

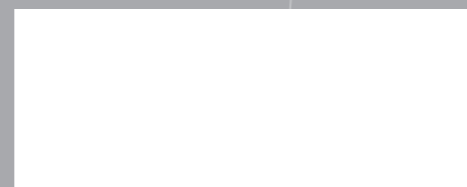
FRD dealers have been selected for their professional competence, their market coverage, their dedication to quality and their willingness to work. They receive intense training on all machines and systems and every support that a committed manufacturer can give them. They actively exchange experience between each other to ensure their clients get the latest lessons from the market. They are a skilled and fast team of professionals.

"For a professional problem-free job FRD offers the best combination of quality equipment and instant service and support. The dealer network is outstanding."

VALUE FOR MONEY

Buying FRD products is a smart investment. A reasonable price for top quality, long lifetime, low maintenance and no break-down-time products in the long term makes financially good sense.

Next steps? FRD Europe and its dealers have a vast resource of information beyond what can be mentioned here. Do not hesitate to get in touch for more detail and an unbeatable quote.



Furukawa Rock Drill Europe BV
 Proostwetering 29, 3543 AB Utrecht, The Netherlands
 Phone +31-(0)30-2412277, Fax +31-(0)30-2412305
 www.frd.eu



ATTACHMENTS



VS - SERIES
 VC - SERIES
 VM - SERIES
 VP - SERIES
 FCP - SERIES

DURABLE AND RELIABLE

WHERE EXPERIENCE COUNTS

COMBI CUTTER/CRUSHER

DURABLE AND RELIABLE

FOR A VAST RANGE OF SPECIALIST TASKS ASSOCIATED WITH CONCRETE AND STEEL DEMOLITION MAKING LIGHT WORK OF A HEAVY BUSINESS

FRD COMBI CUTTER/CRUSHER - VC SERIES -

DESIGN FOR TASK

- With a 130+ year track-record, FRD has a base of design experience second to none. The company manufactures all its products in its own factories using only the best materials and under the most stringent quality control. A policy of constant improvement has created a range of products of unsurpassed performance.
- FRD excavator attachments have been designed to be smart and simple: offering superior performance, easy, reliable operation and lowest lifetime cost.
- Complete range of attachments available from hydraulic crushers and cutters to compactors, demolition and sorting grabs.

To demolish concrete and steel structures. VC22 FT can cut profiles up to 450 x 200 x 9/14mm. The solid cast-steel body minimizes friction in severe operation to ensure long jaws lifetime.

**FRD EXCAVATOR ATTACHMENTS:
 DEDICATED TO RELIABILITY AND
 LOWEST LIFETIME COST**

WHERE EXPERIENCE COUNTS



		VC15 FT	VC22 FT
Operating weight ¹⁾	kg	1260	2290
Opening width	mm	660	895
Total length	mm	1805	2380
Crushing force, primary tooth	kN	550	760
Crushing force, cutter centre	kN	1050	1480
Cutter length	mm	340	530
Oil flow	l/min	80 - 220	150 - 250
Operating pressure	bar	280 - 320	280 - 320
Hose inner dia Ø HD	mm	19	25
360° rotation			hydraulic
Base machine weight	t	15 - 20	20 - 30
Acceleration valve			yes

Opening and closing speed by	l/min	116	200
Open	sec.	2,8	3,5
Close	sec.	2,7	3,0

Specifications subject to change without notice. ¹⁾ Operating weight without top bracket

MULTI-PURPOSE CRUSHER

DURABLE AND RELIABLE



PRIMARY CRUSHER

FOR A VAST RANGE OF SPECIALIST TASKS ASSOCIATED WITH PRIMARY AND SECONDARY DEMOLITION
MAKING LIGHT WORK OF A HEAVY BUSINESS



COMPACTOR

FOR A VAST RANGE OF SPECIALIST TASKS ASSOCIATED WITH COMPACTING AND PILE DRIVING
MAKING LIGHT WORK OF A HEAVY BUSINESS



FRD MULTI-PURPOSE CRUSHER - VM SERIES -

For applications such as low noise crushing of concrete, brick, asphalt and similar materials.

- 360° rotation always makes optimal work position
- Speed valve for quick and efficient work
- Long steel cutting blades provide high cutting performance
- Steel cutting blades are repeatedly reversible
- Special hollow-steel construction for long life and twisting works



		VM15 FT	VM22 FT
Operating weight ¹⁾	kg	1320	2040
Opening width	mm	520	920
Total length	mm	1815	2186
Crushing force, front	kN	420	510
Crushing force, primary tooth	kN	650	780
Crushing force, cutter centre	kN	1520	1800
Cutter length	mm	160	360
Oil flow	l/min	80 - 150	150 - 250
Operating pressure	bar	280 - 320	280 - 320
Hose inner dia Ø HD	mm	19	25
360° rotation		hydraulic	
Base machine weight	t	13 - 20	19 - 25
Acceleration valve		yes	
Opening and closing speed			
when oil	l/min	116	179
Open	sec.	2,8	2,4
Close	sec.	2,7	2,6

Specifications subject to change without notice. ¹⁾ Operating weight without top bracket

PRIMARY CRUSHER - VP SERIES -

To demolish concrete constructions/buildings and to cut reinforcing steel bars. Two cylinder design means maximum opening width for its size. The cast steel frame and Hardox steel arms offer optimum crushing performance with minimum wear.

- 360° rotation always makes optimal work position
- Speed valve for quick and efficient work
- Long steel cutting blades provide high cutting performance
- Steel cutting blades are repeatedly reversible



**FRD EXCAVATOR ATTACHMENTS:
DEDICATED TO RELIABILITY AND LOWEST LIFETIME COST**

		VP15 FT	VP22 FT
Operating weight ¹⁾	kg	1660	2700
Opening width	mm	820	1100
Total length	mm	1810	2156
Total height	mm	1240	1640
Crushing force, front	kN	540	800
Crushing force, mitte	kN	700	1050
Crushing force, cutter centre	kN	1800	2820
Cutter length	mm	155	210
Oil flow	l/min	80 - 150	150 - 250
Operating pressure	bar	280 - 320	280 - 320
Hose inner dia Ø HD	mm	19	25
360° rotation		hydraulic	
Oil flow	l/min	10 - 20	15 - 25
Operating pressure	bar	140	140
Hose inner dia Ø	mm	9	9
Base machine weight	t	10 - 20	20 - 30
Acceleration valve		yes	
Opening and closing speed by	l/min	116	180
Open	sec.	3,9	4,3
Close	sec.	4,4	5,3

Specifications subject to change without notice. ¹⁾ Operating weight without top bracket

FRD COMPACTOR - FCP SERIES -

The FRD Compactor is designed for installation on all types Hydraulic excavators and backhoe loaders. All Compactors are optionally available with a 2x 90° mechanical rotary device. The FRD Compactors combine high frequencies with high centrifugal force and guarantee thus an optimum soil compaction. And in any position. Also otherwise inaccessible positions for Compactors can now quickly and professionally be compacted. In addition, an optional clamp can be attached.

Purpose

- Compaction of soil and granular materials.
- Compaction of trenches.
- Compaction of embankments, slopes, and dykes, where ordinary machines can not be used.
- Solving frozen materials (coal, etc.)
- Driving of sheet piles (metal poles, fence posts, guard rails, etc.)



FCP2



FCP22

		FCP2	FCP5	FCP6	FCP12	FCP22	FCP35	FCP45
Operating weight ¹⁾	kg	92	136	178	356	600	710	785
Baseplate dimensions	mm	440x320	450x450	510x450	610x760	710x850	870x750	940x750
Height ²⁾	mm	370	370	390	610	700	780	780
Size	m ²	0,14	0,20	0,23	0,46	0,58	0,65	0,70
Centrifugal force	kN	10	18	25	50	95	155	205
Frequency	1/min	2200-2600	2200-3000	2200-3000	2100-2600	2200-2500	2400-2900	2400-2900
Oil flow	l/min	20 - 30	25 - 40	25 - 40	55 - 85	100 - 131	170 - 210	175 - 210
Operating pressure	bar	120 - 140	120 - 140	120 - 140	120 - 140	120 - 140	190 - 215	200 - 220
Pressure, Return line Max	bar	6	6	6	8	10	10	10
Hose inner dia Ø HD, ND	mm	9	12/16	12/16	16/19	19/25	25/32	25/32
Rotation, optional		2x90° mechanical						
Mounting plate		F2LN	F2LN	F3LN	F6LN	F12LN	F19LN	F19LN
Base machine weight	t	0,8 - 3,0	2,0 - 5,0	4,5 - 8,0	6,0 - 16	15 - 28	20 - 35	22 - 37

Specifications subject to change without notice. ¹⁾ Operating Weight basic unit without turning unit and mounting plate, ²⁾ Height basic unit without slewing and mounting plate

WHERE EXPERIENCE COUNTS

WHERE EXPERIENCE COUNTS

WHERE EXPERIENCE COUNTS

WHERE EXPERIENCE COUNTS