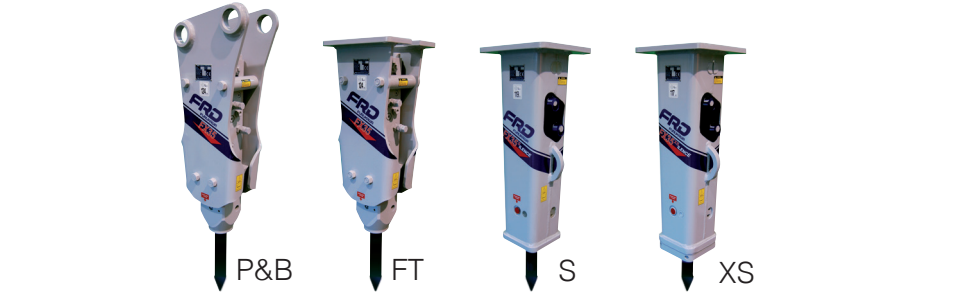


WHERE EXPERIENCE COUNTS

FRD HYDRAULIC BREAKERS

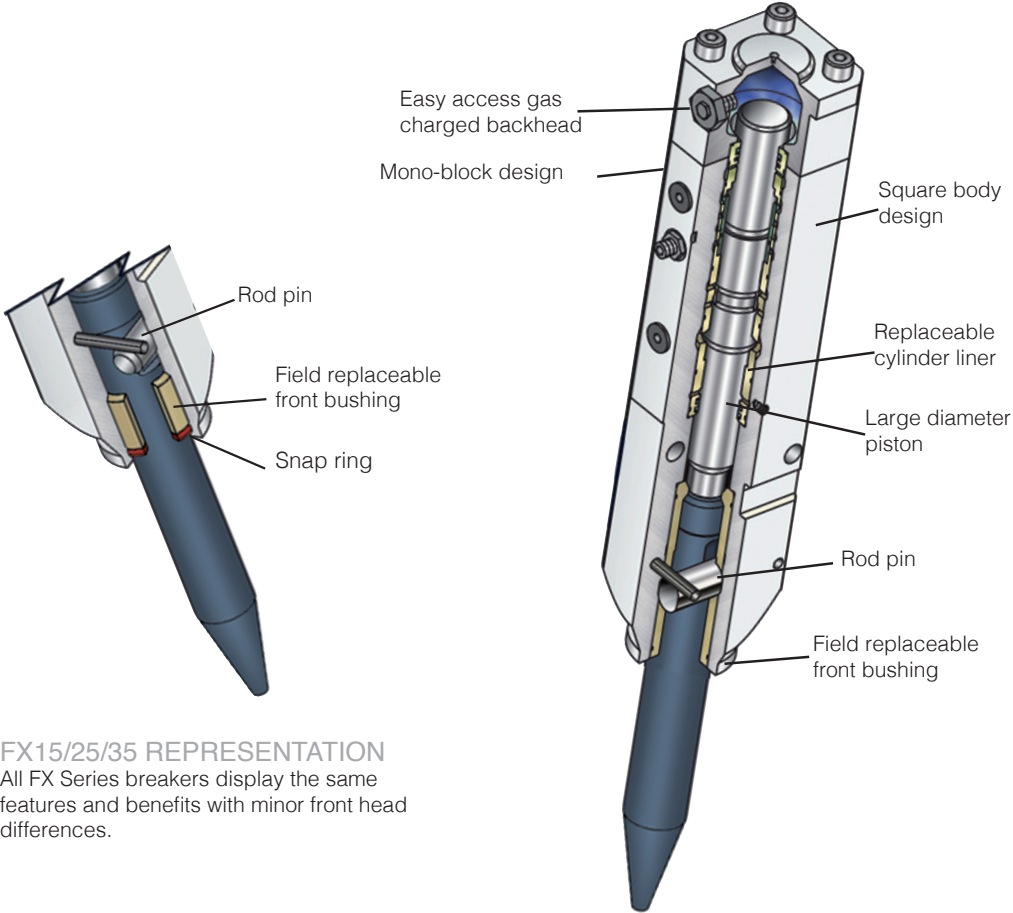
FX-ALPHA SERIES

			FXa15	FXa25	FXa35	FXa45	FXa55
Operating weight, P&B and FT <sup>1)</sup>	kg		69	101	146	187	245
Operating weight, <sup>1)</sup> S and XS <sup>2)</sup>	kg			112	157	208	280
Height with rod, pin and bush	mm		924	1030	1172	1285	1388
Height with rod, FT	mm		816	939	1060	1167	1264
Height with rod, S	mm			961	1062	1173	1276
Height with rod, XS	mm			1015	1116	1227	1330
Operating pressure	min	Mpa	10	10	12	12	12
	max		14	14	16	16	16
Oil flow	min	l/min	10	18	24	30	40
	max		28	35	52	60	85
Impact rate 1/min	min	bpm	600	600	600	600	500
	max		1500	1500	1300	1100	1100
Rod diameter Ø	mm		36	45	52	60	68
Effective length Rod	mm		234	293	322	355	378
Weight Rod	kg		2,6	5	8	11	15
Hose inner dia Ø HD, ND	mm		9	12	12	12	12
Guaranteed noise level	FT	dB(A)	116	118	124	126	126
	S	dB(A)		112	119	120	119
	XS	dB(A)		110	117	117	116
Base machine weight	t		0,5 - 1,5	1,0 - 2,5	1,5 - 4,0	2,5 - 5,5	4,0 - 7,0
<sup>1)</sup> Operating weight with top bracket. <sup>2)</sup> S and XS Silent Version = Sound and vibration damping							
Specifications subject to change without notice							



FEATURES & BENEFITS

- Mono-block design
- No through bolts
- Designed with replaceable cylinder liners for saving maintenance cost and downtime
- No diaphragm
- Field replaceable front bushing keeps rods in peak performance
- Extended front bushing for maximum service life (Fx45/55)
- Wide oil flow range for fast, hard-hitting performance and more carrier options
- A wide variety of working rods
- Rod pin for increased rod contact and double service life (Fx45/55)





F6 - F9 SERIES

THE BEST FRAME FOR YOUR REQUEST



The easiest way to fix a hydraulic breaker on a backhoe loader. FRD has for each backhoe the right setting.

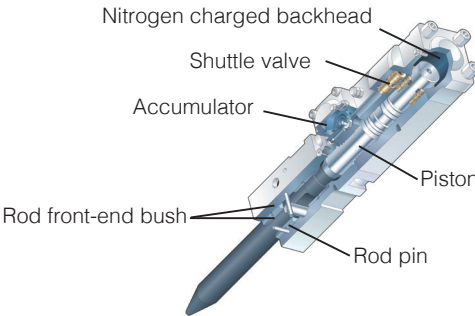
The cheapest solution is to attach the breaker with different systems. With the FT framework easy to grow, you have the base mounting plates for quick-change systems of all kinds.

Noise reduction is required in the workplace; you have the beginning of the Silent part of our offered possibilities. The frame is up to 6 DbA quieter than the standard frame.

The F9 is only in a LN Frame. The standard or special housing can be made on request.

Features and Benefits:

- Nitrogen charged back head for superior energy transfer
- Large diameter piston for increase in impact energy
- CD designed threads on through-bolt provide even load distribution and greater surface contact between the nut and bolt
- New front head design includes replaceable thrust bushing for added service life



		F6BHL		F6LN	F6FT	F9LN
Operating weight, P&B	kg	365				
Operating weight, FT <sup>1)</sup>	kg				350	
Operating weight, LN <sup>1), 2)</sup>	kg			365		535
Height with rod, pin and bush	mm	1450				
Height with rod, LN	mm			1400		1595
Height with rod, FT	mm				1450	
Operating pressure	min	MPa	10	10	10	12
	max		16	16	16	17
Oil flow	min	l/min	50	50	50	45
	max		150	150	150	150
Impact rate (frequency)	min	bpm	650	650	650	400
	max		1600	1600	1600	1400
Impact energy	joule		884	884	884	1305
Rod diameter Ø	mm		75	75	75	90
Effective rod length	mm		450	450	450	500
Weight rod (standard)	kg		21,5	21,5	21,5	35,5
Hose inner dia Ø Press. Return	mm		12	12	12	19
Base machine weight	ton		3,5 - 10	5,0-9,0	5,0-9,0	6,0-12

<sup>1)</sup> Operating weight with top bracket. <sup>2)</sup> LN Silent Version = Sound and vibration damping

Specifications subject to change without notice



FXJ SERIES

GREAT BREAKING POWER

The use of high quality materials and the highest quality production process results in a breaker body with less weight and higher output/performance. The impact energy is higher than ever.

OPERATOR FRIENDLY

With the new slim design the FXJ has a better accessibility in demolition and quarry. It provides high efficiency in trench work. In addition to its slim design, there is a newly designed top damper which reduces the noise and vibration.

IMPROVED DURABILITY

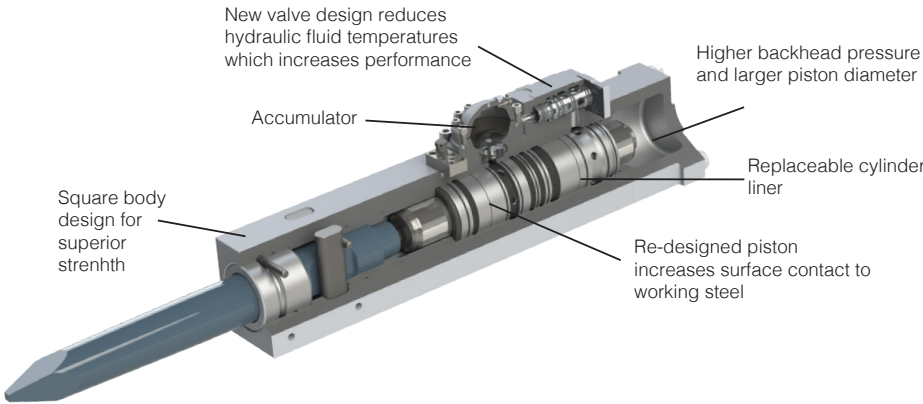
The use of the best quality materials and the highest quality standard in production creates a product that will work longer and is more efficient. The new floating rod seal, minimizes dust intake and result in an extended life time.

EASY SERVICE

To ease the service FRD developed the mono-block cylinder which reduced the amount of parts. With this unique construction, there are no through bolts needed. With the new rod pin design and other improvements of the parts, the lifetime is longer and are easy to replace.

LOWEST LIFETIME COST

High quality materials give a longer lifetime to each part, which drastically reduces the total maintenance cost. Over long periods the advantages of less downtime and fewer parts to replace results in a cost per year, which are the lowest in the market.



Specifications			FXJ125	FXJ175	FXJ225	FXJ275	FXJ375	FXJ475	FXJ770
Operating weight, <sup>1)</sup> FXJ	kg		850	1000	1600	1800	2600	3200	4800
Height with rod,	mm		2005	2043	2411	2468	2715	2892	3390
Operating pressure	min	MPa	16	16	16	16	16	16	16
	max		18	18	18	18	18	18	18
Oil flow	min	l/min	70	100	125	145	170	200	250
	max		120	160	190	220	260	300	340
Impact rate	min	bpm	400	450	350	350	300	250	250
	max		1000	900	850	620	550	450	420
Impact energy	joules		2320	3610	4580	5120	7310	9620	11850
Rod diameter Ø	mm		110	120	135	140	155	170	190
Rod effective length	mm		640	620	650	680	715	720	860
Rod weight	kg		69	81	120	143	167	229	315
Hose inner dia Ø Press/Return	mm		19	19	25	25	25	32	32
Sound power level	dB		125	118	120	121	121	121	122
Guaranteed sound power level	dB		129	120	121	122	123	124	124
Base machine weight	ton		9 - 16	12 - 21	16-24	18 - 30	25 - 42	33 - 55	44-75

<sup>1)</sup> Operating weight with top bracket.

Specifications subject to change without notice

