FRD FURUKAWA ROCK DRILL USA

BREAKER/ATTACHMENT DIVISION

FRD'S 5TH GENERATION HYDRAULIC BREAKER

FHB SERIES

NO torquing of Thru-Bolts.
NO broken Thru-Bolts.
NO downtime due to Thru-Bolts.

Why? **NO THRU-BOLTS.**



- FHB12 Qtv
- FHB16 Qtv
- FHB18 Qtv
- FHB20 Qtv
- FHB27 Qtv
- FHB35 Qtv
- FHB45 Qtv

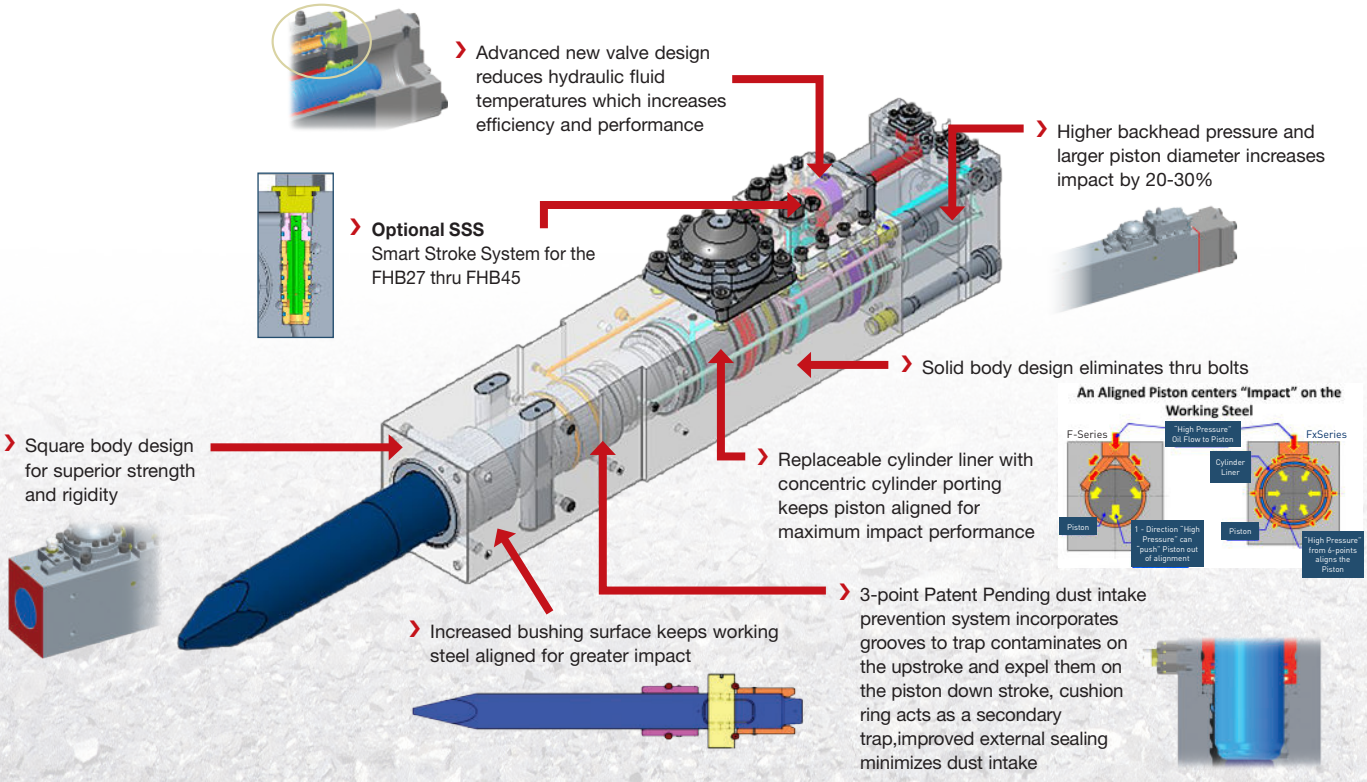
THE NEXT GENERATION OF ROCK BREAKING

INTRODUCING THE FHB LARGE SERIES BREAKERS

Our Unique Design gives us an Excellent Power to Weight Ratio for Lower Maintenance and Increased Performance! This SOLID BODY CONCEPT ELIMINATES THRU-BOLTS which has reduced the breaker weight but does not affect our Impact Energy! This makes for much better Control for the Operator, Less Wear and Tear on the Excavator and reduced fuel costs.

NEW FHB FEATURES INCLUDE:

- **The Smart Stroke System (SSS) automatically dials in optimal stroke length by sensing piston position, and is available as an option on select models**
- **New models include the manual Quick Switch Valve (QSV) (with the exception of the FHB12) for altering between short and long stroke based on application**
- **Enhanced internal hydraulics efficiencies leading to improved production**
- **Stop pins and rod pins updated to improve breaker durability**
- **Reduced CO_2 emissions results in more eco-friendly operation.**



FHB
BREAKER LINEUP



SPECIFICATIONS	FHB12	FHB16	FHB18	FHB20	FHB27	FHB35	FHB45
RECOMMENDED CARRIER RANGE IN U.S. TONS *OPTIMAL	9 - 15 *12 tons	12 - 20 *16 tons	15 - 21 *18 tons	19 - 26 *20 tons	21 - 33 *27 tons	28 - 44 *35 tons	39 - 61 *45 tons
WORKING STEEL DIAMETER IN INCHES (MM)	4.33 (110)	4.72 (120)	4.72 (120)	5.31 (135)	5.51 (140)	6.10 (155)	6.69 (170)
ACCEPTABLE GPM RANGE (LPM)	18.5 ~ 31.5 (70 ~ 119)	26.4 ~ 40.9 (100 ~ 155)	29.1 ~ 44.8 (110 ~ 170)	33.1 ~ 51.4 (125 ~ 195)	36.9 ~ 55.4 (140 ~ 210)	44.8 ~ 66.6 (170 ~ 250)	52.8 ~ 79.2 (200 ~ 300)
ACCEPTABLE PSI RANGE (BAR)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)	2,320 ~ 2,610 (160 ~ 180)
HYDRAULIC INPUT POWER (kW)	36.0	46.5	51.0	58.5	63.0	75.0	90.0
ADJUSTABLE BLOWS PER MINUTE (BPM)	450 ~ 670	420 ~ 620	400 ~ 600	390 ~ 590	370 ~ 550	340 ~ 510	290-400
TOTAL WEIGHT IN LBS (KG)*	1,782 (810)	2,963 (1,347)	3,355 (1,525)	3,485 (1,584)	3,762 (1,710)	5,277 (2,399)	7,021 (3,185)
TOTAL LENGTH IN INCHES (MM)*	87 (2,208)	100 (2,540)	100 (2,540)	113 (2,870)	119 (3,026)	126 (3,197)	146 (3,708)
CARRIER OPTIONS	■■	■	■	■	■	■	■

***Note:** Total weight and total length include standard working steel and universal top cap less mounting pins and bushings.

CARRIER OPTIONS



ALL NEW STROKE CONTROL ENHANCEMENTS

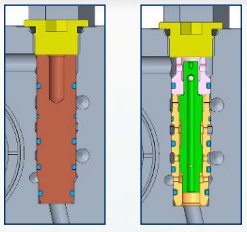
QUICK SWITCH VALVE (QSV) & SMART STROKE SYSTEM (SSS)

MODEL		FHB16	FHB18	FHB20	FHB27	FHB35	FHB45
NEW QUICK SWITCH VALVE (QSV)	IDLE BLOW (LONG)	■	■	■	■	■	■
	IDLE BLOW (SHORT)	■	■	■	■	■	■
	IDLE BLOW PROTECTION (LONG)	■	■	■	■	■	■
	IDLE BLOW PROTECTION (SHORT)	–	–	–	–	–	–
NEW SMART STROKE SYSTEM (SSS)		–	–	–	OP	OP	OP

*Same as Fxj125, FHB12 doesn't have a QSV. It switches between long and short stroke by attaching and detaching a GPF plug.

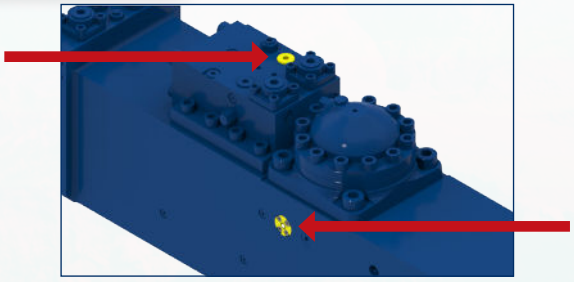
- **Quick Switch Valve (QSV):** New type of stroke adjuster with easy switching. Comes standard on FHB16-FHB45.
- **Smart Stroke System (SSS):** Automatically switch between long and short stroke by detecting piston position. Optional on the FHB27-FHB45.

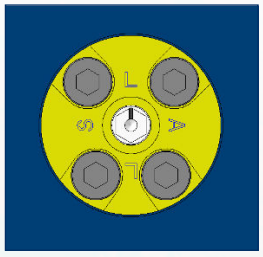
FHB16 | FHB18 | FHB20



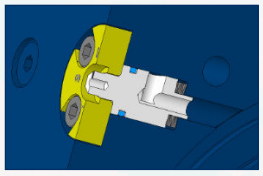
Manual (standard)

SSS (optional)









Selected by QSV/with Tool.

Align the valve groove to the appropriate letter to change the stroke.

L = Long stroke with no anti-dry fire
S = Short stroke with no anti-dry fire
A = Long stroke with anti-dry fire

FHB27 | FHB35 | FHB45

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