

## ITS THE SMALL THINGS IN LIFE THAT COUNT



	Job	Specification
Construction	Gardening & landscaping	Fencing, ground excavation, rock breaking
	Earthworks	Trenching, pit building, ground excavation
	Dredging	Canal deepening & extension Dock deepening & extension
	Tunnelling	Tunnel driving, roof, face & rib scaling Floor levelling
Demolition & renovation	Masonry structures	Brickwork, natural stone Autoclaved aerated concrete
	Concrete structures	Lightweight concrete Standard concrete
	Pavements	Asphalt, concrete, composite surfaces
	Composite steel & concrete structures	Steel-reinforced concrete, pre-stressed concrete, fibre-reinforced concrete
Mining & quarrying	Preliminary works	Overburden removal, bench, road & ramp levelling, roof, face & rib scaling
	Secondary breaking	Boulder reduction in rock pile, removing blockages at crushing systems
Metallurgical industry	Cleaning & de-bricking	Ladles, converter mouths, kilns
	Slag recycling	Boulder reduction in slag heap, removing blockages at crushing systems

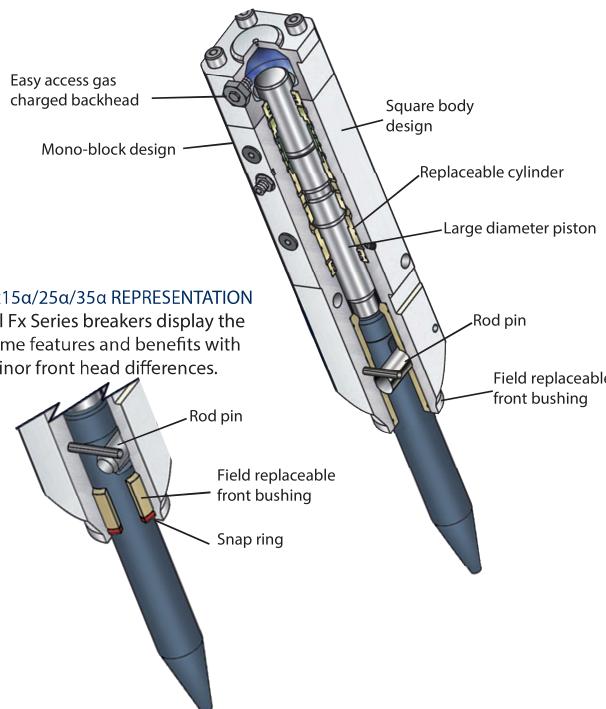
● Optimal ● Suitable

## Fx SERIES

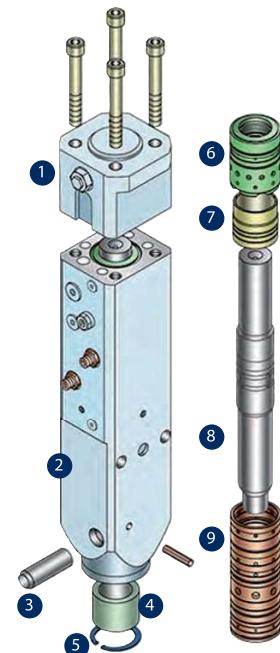
## THE REVOLUTION IN MINI EXCAVATORS

### FEATURES & BENEFITS

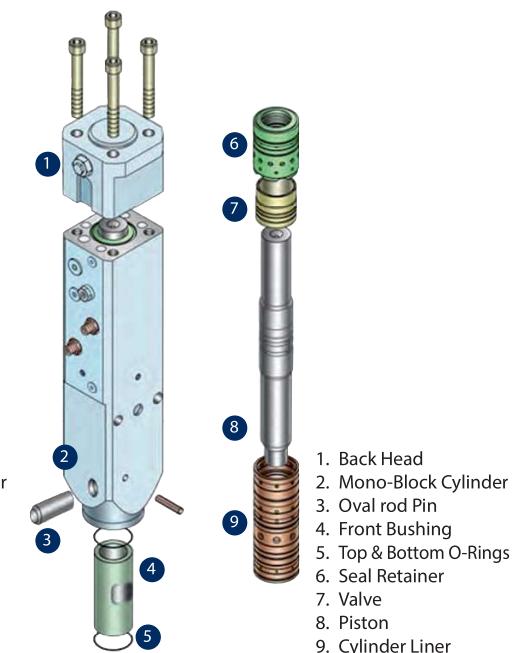
- Mono-block design
- No through bolts
- Designed with replaceable cylinder liners for saving maintenance cost and downtime
- No diaphragm
- Field replaceable front bushing keeps rods in peak performance
- Extended front bushing for maximum service life (Fx45a/55a)
- Wide oil flow range for fast, hard-hitting performance and more carrier options
- A wide variety of working rods
- Rod pin for increased rod contact and double service life (Fx45a/55a)
- One strategically located warehouse facility with extensive rod inventories assuring on-time deliveries



Fx15a/25a/35a



Fx45a/55a



Fx SERIES

## TYPE OF FRAMES

PIN AND BUSH



SILENCE



XTRA SILENCE



The easiest way to fix a hydraulic breaker on an excavator. Order the appropriate pin & bushing set and you can fix your hydraulic breaker on an excavator arm.

Noise reduction is required in the workplace and you have the beginning of the Silent part of our offered possibilities. The frame is up to 6 dB(A) quieter than the standard frame.

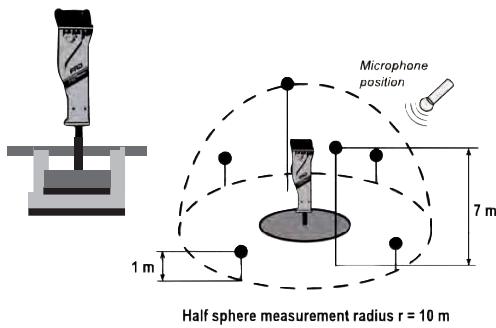
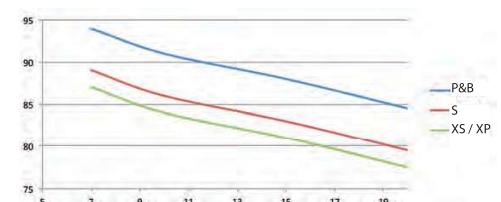
With the Xtra frame we currently offer the maximum in noise reduction. The optimal management of the hammer in the frame in conjunction with the patented design of the FRD rod gives up to 4 dB(A) noise reduction than the Silence version.



## SOUND POWER & SOUND PRESSURE

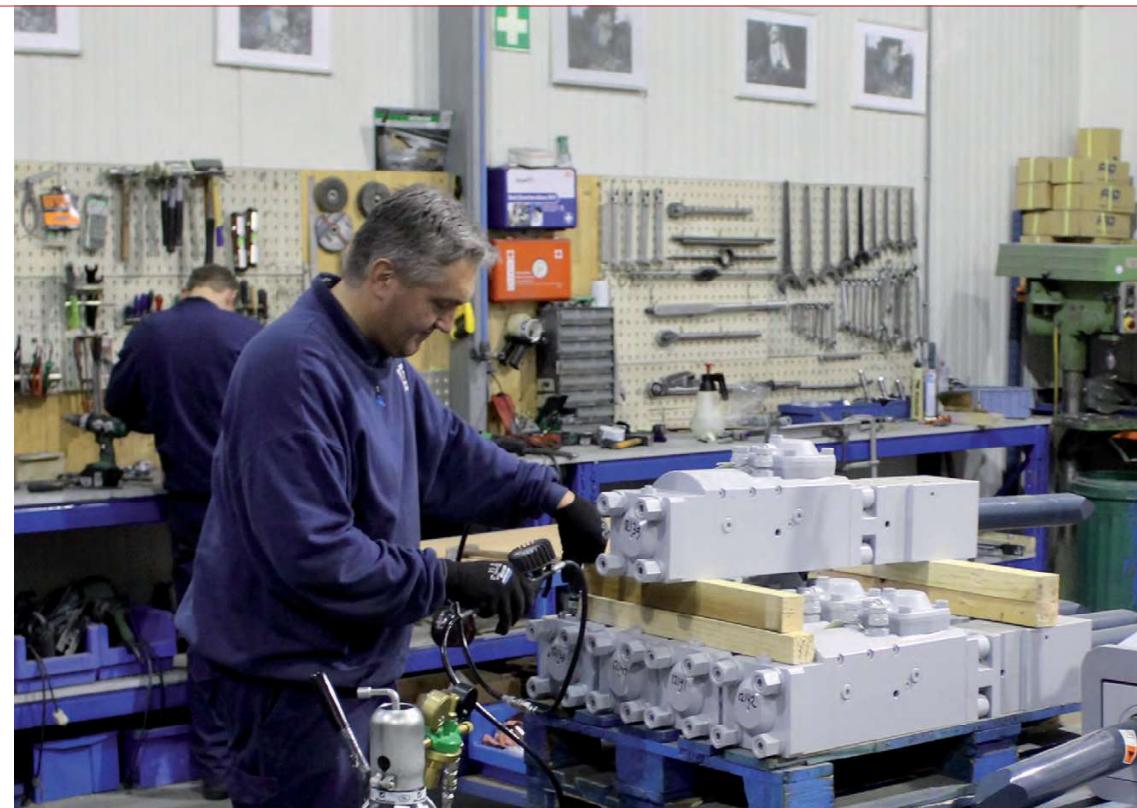
These are two distinct and commonly confused characteristics of sound. Sound power is the acoustical energy emitted by the sound source, and is an absolute value. It is not affected by the environment. Sound pressure levels quantify in decibels the intensity of given sound sources. Sound pressure levels vary substantially with distance from the source, and also diminish as a result of intervening obstacles and barriers, air absorption, wind and other factors. Sound pressure is what our ears hear and what sound pressure level meters (SPL meters) measure.

Sound level	Fx15a	Fx25a	Fx35a	Fx45a	Fx55a
PIN & BUSH (PB)	L <sub>WA</sub> 116 dB	L <sub>WA</sub> 118 dB	L <sub>WA</sub> 124 dB	L <sub>WA</sub> 126 dB	L <sub>WA</sub> 126 dB
SILENCE (S)	-	L <sub>WA</sub> 112 dB	L <sub>WA</sub> 119 dB	L <sub>WA</sub> 120 dB	L <sub>WA</sub> 119 dB
XTRA SILENCE (XS)	-	L <sub>WA</sub> 110 dB	L <sub>WA</sub> 117 dB	L <sub>WA</sub> 117 dB	L <sub>WA</sub> 116 dB



$$L_{WA,g} = L_p \cdot k_1 \cdot k_2 + 10 \cdot \log(s/s_0) + K$$

Garantie Sound Power level  
Correction Excavator noise  
Measured Sound Pressure  
Correction Sound reflection surrounding  
Correction of measure distance  
Surcharge Measure assurance



## Fx SERIES

### Fx15a



P&amp;B



### Fx45a



P&amp;B S XS



### Fx25a



P&amp;B S XS



### Fx55a



P&amp;B S XS



### Fx35a



P&amp;B S XS



		Fx15a	Fx25a	Fx35a	Fx45a	Fx55a
Operating weight, P&B <sup>1)</sup>	kg	60	83	129	165	220
Operating weight, <sup>1)</sup> S and XS <sup>2)</sup>	kg		118	167	220	292
Height with rod, pin and bush	mm	924	1030	1172	1345	1388
Height with rod, S	mm		943	1042	1150	1248
Height with rod, XS	mm		993	1048	1138	1234
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	S dB(A)	112	119	120	119	
	XS dB(A)	110	117	117	117	116
Base machine weight	t	0.85 - 1.5	1.35 - 2.5	1.9 - 3.5	3.0 - 4.5	4.0 - 5.5

<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

## Fx SERIES OVERVIEW