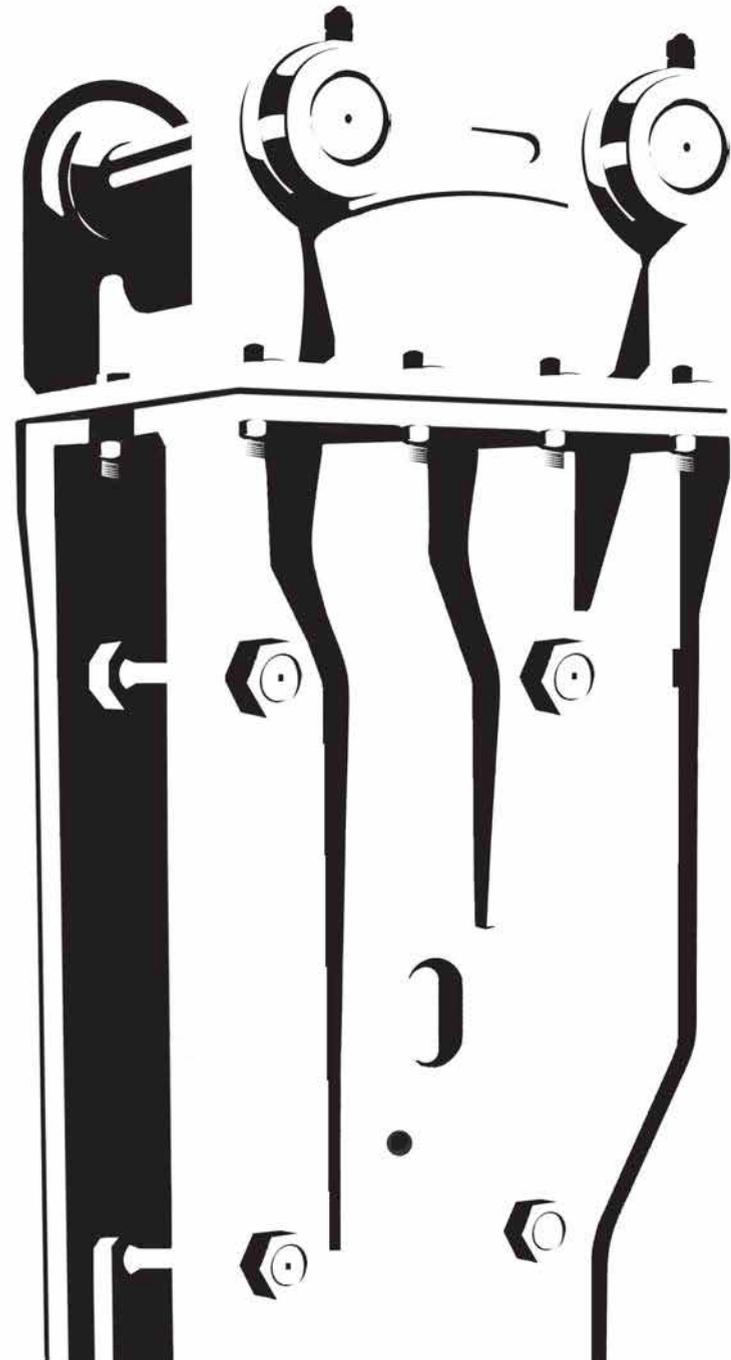


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FEELING®





FEEL INDUSTRIAL
ENGINEERING CO., LTD.

www.finebreaker.com



*FEEL the Value!
Always FINE!*



Excavator Rock Drill

Hydraulic Rock Breaker

Demolition Crusher & Pulverizer & Metal Shear

Hydraulic Sheet Pile Driver & Side-Grip

Hydraulic Compactor

Hydraulic Quick Coupler

Hydraulic Grab Series

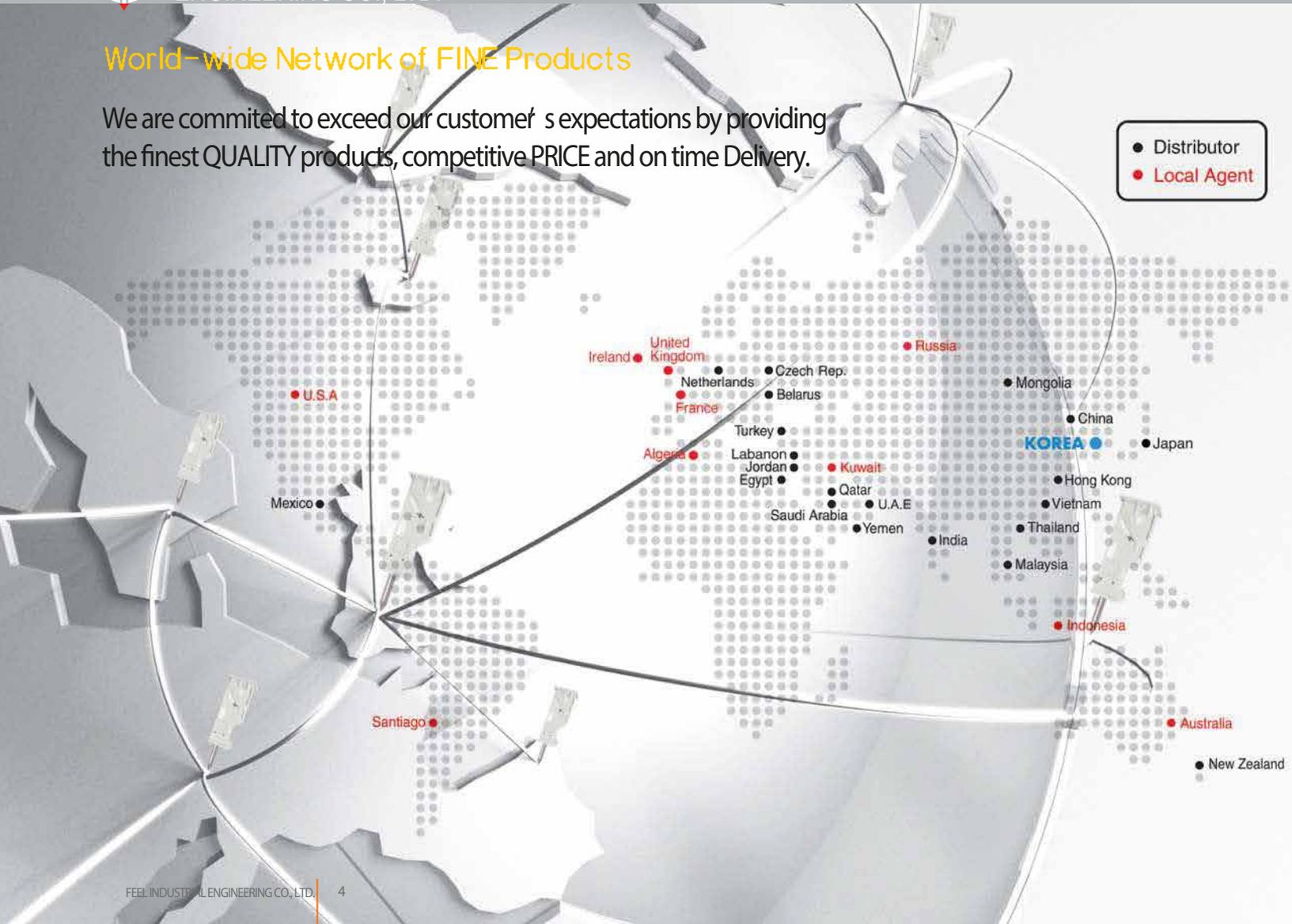
Hydraulic Rotary Cutter

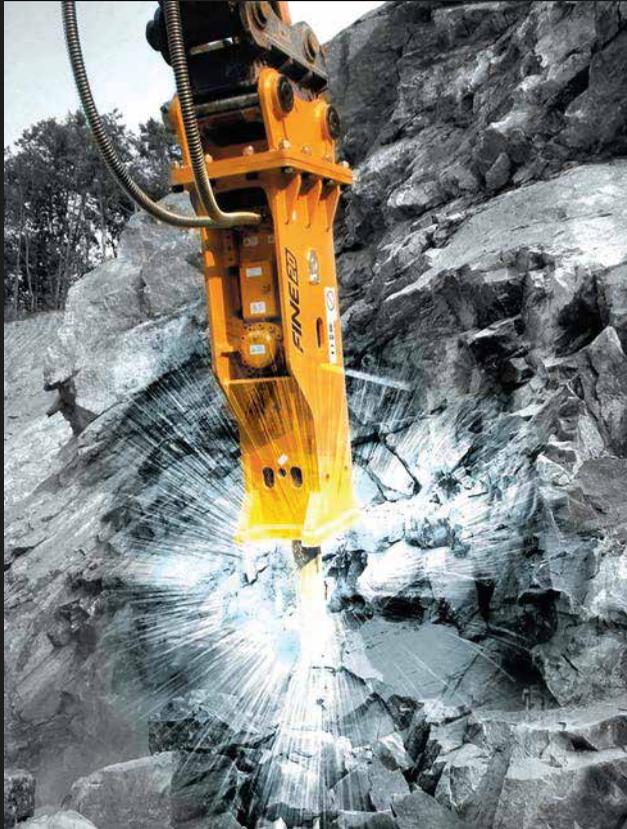




World-wide Network of FINE Products

We are committed to exceed our customer's expectations by providing the finest QUALITY products, competitive PRICE and on time Delivery.





Greeting

We have the great pleasure in introducing ourselves to you. Our company was established by group of experienced specialists in the construction equipment. Our ultimate goal is to be the number one construction equipment(attachments) firm, not only in terms of sales or range of products, but, more importantly, 'NUMBER ONE' to our customers.

We want to be the cutting edge of technology, developing and making the construction equipment(attachments) that are needed in the new millennium, and providing them at the right price followed by the excellent after-sales service.

Our company offers you technical information whenever you need it.

We want to help you make the best use of our product.

We are appealing to you as intelligent, thoughtful customers who know what they want and appreciate quality and value.

Invest in the future by relying on us. Please feel free to contact us at all times.

Thank you.



Hydraulic Breakers

Combines high operation efficiency and nitrogen gas energy to achieve powerful breaking force, even in the toughest conditions.

Excavator Rock Drill

- High-Power of Drifter
- 360 Degree Rotation
- Easy installation
- Low maintenance Cost
- Electronic Control system.



Specification FMRD Series

Description		150	300	400
Drifter	UNIT			
Manufacturer		FEEL	FEEL	FEEL
Impact power	kW	6	11	19
Max input power to rock drill	kW	10	20	32
Impact energy	J	80	110	180
Hydraulic pressure, max	bar	180	200	300
Torque, max	Nm	120	230	280
Stroke length positions		1	1	2
Impact frequency	Hz	35-50	40-47	42-50
Dimensions and weights				
Weight	kg	1650	2650	2950
Length	mm	5200	6310	7200
Width	mm	1600	2750	2830
Height	mm	1100	1540	1600
Drill Steel				
Hole range	mm	38-51	64-89	89-115
Drill steel		R25/R28	T38/T45	T45/T51
Dust collector				
Model		20HB	40HB	60HB
Filter area	m ²	10.6	16.2	20
Number of filter elements	pcs	6	9	12
Suction capacity (max.)	l/s	210	275	400
Suction hose diam.	mm	76	102	127
Cleaning air pressure, max	bar	6	6	7
Cleaning air consumption	l/pulse	20	30	40
Compressor				
Type		Screw	Screw	Screw
Model		GG20	GG30	GG50
Capacity	lpm	3000	3350	5000
Working pressure	bar	7	7	8
Feed system				
Feed rotation	angle	360	360	360
Feed force, max	kN	10	28	32
Tractive force, max	kN	12	32	45
Total length	mm	5420	6735	7100
Travel length	mm	3800	4500	4700
Auto rod changer				
Rod number		4	6	7
Carrier requirements				
Weight	tn	9-19	20-29	30-45
Flow / pressure for drilling	LPM / Bar	62/180	140/190	180/230
Flow / pressure for compressor	LPM / Bar	40/150	40/180	135/180
Flow / pressure for dust collector	LPM / Bar	25/150	25/180	25/180
Total flow / pressure ; minimum	LPM / Bar	125/150	255/150	290/200
Total flow / pressure ; max.	LPM / Bar	130/180	320/200	340/250

* Above specifications are Subject to change without prior notice.



Hydraulic Breakers (Silenced) – X Series

FINE Silenced "X" Series will satisfy you with its economical efficiency.
Adapted power mechanism combined with Hydraulic pressure and Nitrogen gas.

- Adapted piston idle blow prevention function as standard
- Enable the vibration to be reduced
- Number of parts are minimized
- Simplicity of maintenance
- Much lower operating cost
- Improve impact forces much more
- More powerful and durable structure



Hydraulic Breaker (Bracket-Top)

FINE hydraulic breakers have been proving their power and efficiency in any of demolishing jobs.

- Adapted piston idle blow prevention function as standard
- Additional Blank firing protection system to protect piston
- More powerful and durable structure

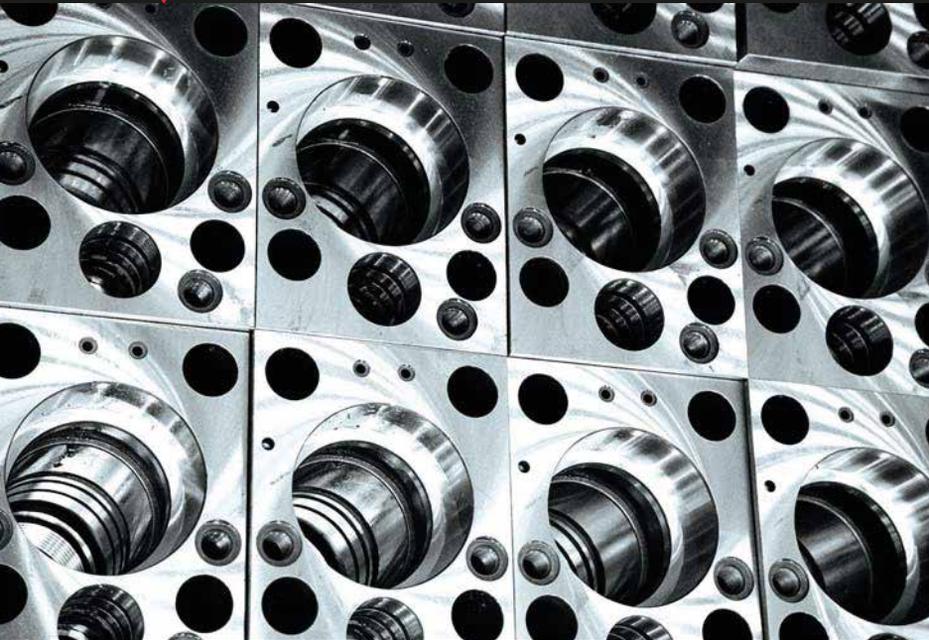


Hydraulic Breaker (Bracket-Side)

Specially designed and developed to be mounted on excavators in Asia.

- Very suitable to transport with base machine on travel.
- Much lower operating cost
- Developed design without side bolts
- Simplicity of maintenance

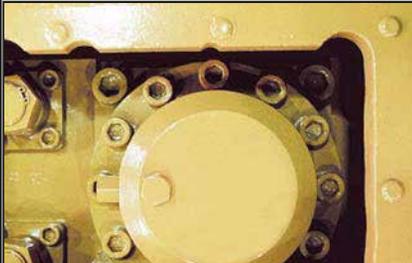




FINE hydraulic breakers have been proving their power and efficiency in any of demolishing jobs.

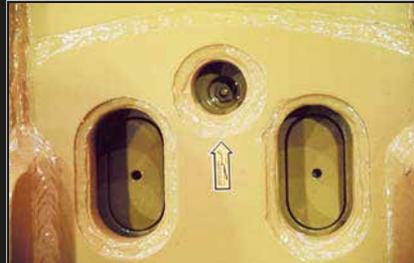
Accumulator

Protecting pump of base machine by shock absorbing



Pin-Tool

Designed longer than others for efficiency and additional tap hole for take out.



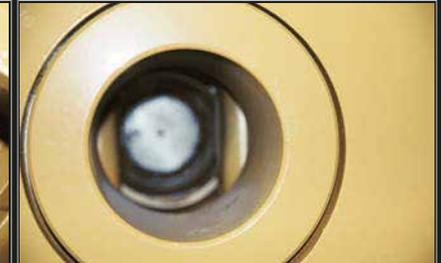
Upper-Damper

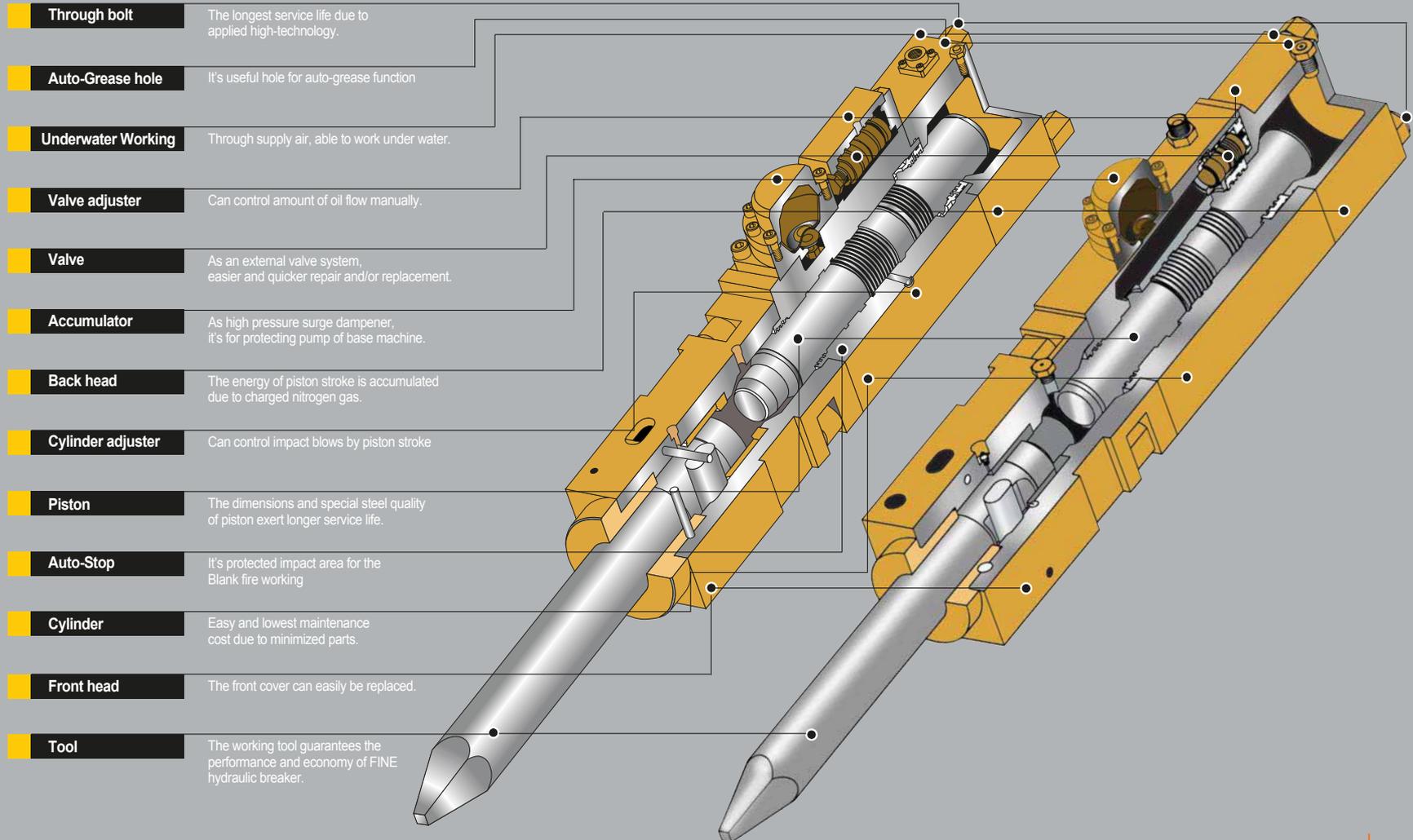
Unlimited life for shock absorbing.



Front cover and Inner bush

Use Special Material against worn out.







Auto Grease Pump

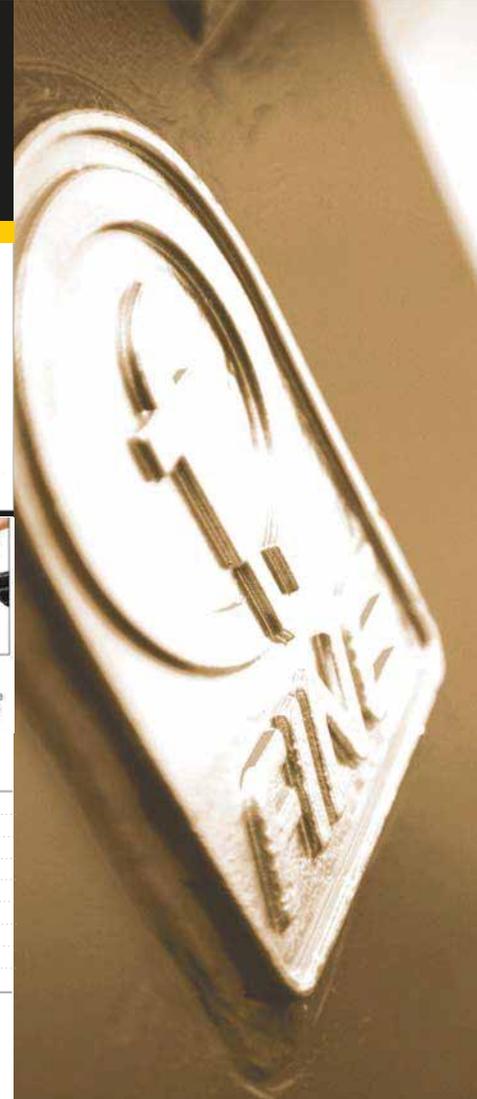
- ▶ Using rechargeable cartridge (400ml & 1,200ml)
- ▶ Economical maintenance cost
- ▶ Easy installation

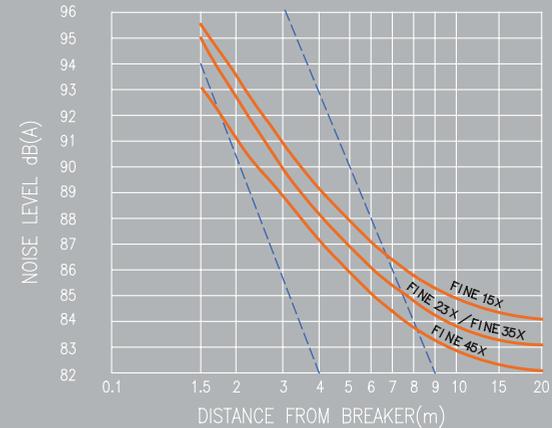
Installation View	Installation View	Product Size	Adjustment of the quantity of Grease



Specification

Output Pressure	about 10Kg
Grease Cylinder Capacity	400 ml
Exterior Size	140mm x 96mm x 362mm
Weight (Except Grease)	5.2 Kg
Output Port	PT 1/4
Grease Quantity	0.2cc~1cc / 12cc~60cc
Grease Type	NLGI NO.2
Available Temperature Range	-10 ~50
Permissible Main Body Temperature	-20 ~90





Guide to tool choice



Blunt-end

reducing oversizes



Wedge chisel

digging or narrow trenching & concrete demolitions



In-line chisel

digging or narrow trenching & concrete demolitions



Moil point type

mining applications, universal tool





Silenced-X



Bracket-Top



Bracket-Side



Specification Hydraulic Breaker (Silenced) X- Series, Close Type

Description		FINE 4X	FINE 5X	FINE 7BLX	FINE 7X	FINE 10X	FINE 15X	FINE 21X	FINE 22X Plus	FINE 23X Plus	FINE 37X	FINE 45X	FINE 50X
Operating Weight	kg	175	275	400	490	785	1,350	1,800	1,930	1,880	2,650	3,280	4,100
	lb	386	606	882	1,080	1,731	2,977	3,969	4,256	4,145	5,843	7,232	9,041
Overall Height	mm	1,420	1,586	1,535	1,946	2,338	2,440	2,670	2,640	2,707	3,100	3,258	3,726
	inch	55.4	61.9	59.9	75.9	91.2	95.2	104.1	103.0	105.6	120.9	127.1	145.3
Operating Pressure	bar	90-120	90-130	90-130	130-150	150-170	150-180	160-180	160-180	160-180	160-200	160-200	160-200
	psi	1,305-1,740	1,305-1,885	1,305-1,885	1,885-2,175	2,175-2,465	2,175-2,610	2,320-2,610	2,320-2,610	2,320-2,610	2,320-2,900	2,320-2,900	2,320-2,900
Required Oil Flow	lpm	20-50	30-50	30-50	45-90	80-110	90-120	100-160	140-160	120-180	180-220	190-250	250-310
	gpm	5-13	8-13	8-13	12-24	21-29	24-32	26-42	37-42	32-48	48-58	50-66	66-82
Impact Rate	bpm	550-1200	450-900	400-1500	450-800	450-800	400-900	350-600	400-800	350-550	300-500	300-600	250-450
	joule	480	849	849	1,764	2,443	4,234	5,600	6,200	6,200	8,550	9,970	13,125
Impact Power	ft-lb	354	627	627	1,302	1,803	3,125	4,133	4,133	4,576	6,310	7,358	9,686
	mm	∅55	∅68	∅72	∅85	∅100	∅120	∅135	∅135	∅140	∅155	∅160	∅175
Tool Diameter	inch	2.16	2.7	2.8	3.3	3.9	4.7	5.3	5.3	5.5	6.1	6.3	6.8
	mm	13	13	13	19	19	19	25	25	25	32	32	32
Hose Diameter	inch	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1 1/4	1 1/4	1 1/4
	ton	1-3.5	2-7	5-8	7-9	9-12	13-18	18-24	20-26	22-26	36-40	40-49	50-65
Suitable Excavator	lb	2,205-7,718	4,410-15,435	11,025-17,640	15,435-19,845	19,845-26,460	28,665-39,690	39,690-52,920	44,100-57,330	48,510-57,330	79,380-88,200	88,200-108,045	110,250-143,325

* Above specifications are subject to change without notice.

Specification Hydraulic Breaker (Top Bracket) - Open Type

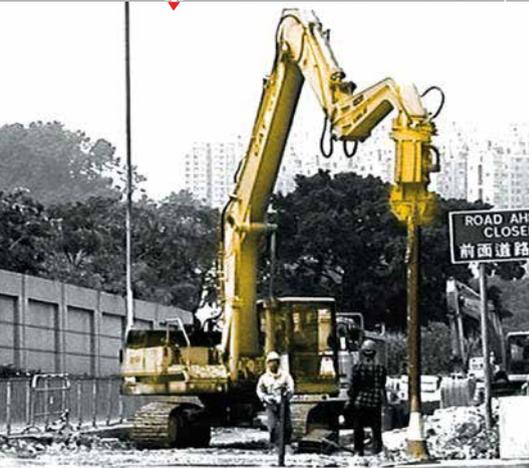
Description		FINE 4	FINE 5	FINE 6BL	FINE 7	FINE 10	FINE 15	FINE 20	FINE 22	FINE 23 Plus	FINE 35	FINE 37	FINE 45	FINE 50
Operating Weight	kg	175	275	400	490	785	1,350	1,790	1,850	1,880	2,450	2,650	3,280	4,100
	lb	386	606	882	1,080	1,731	2,977	3,947	4,079	4,145	5,402	5,843	7,232	9,041
Overall Height	mm	1,420	1,586	1,535	1,946	2,338	2,440	2,773	2,640	2,707	3,046	3,150	3,258	3,726
	inch	55.4	61.9	59.9	75.9	91.2	95.2	108.1	103.0	105.6	118.8	122.9	127.1	145.3
Operating Pressure	bar	90-120	90-130	90-130	130-150	150-170	150-180	160-180	160-180	160-180	160-200	160-200	160-200	160-200
	psi	1,305-1,740	1,305-1,885	1,305-1,885	1,885-2,175	2,175-2,465	2,175-2,610	2,320-2,610	2,320-2,610	2,320-2,610	2,320-2,900	2,320-2,900	2,320-2,900	2,320-2,900
Required Oil Flow	lpm	20-50	30-50	30-50	45-90	80-110	90-120	130-150	140-160	120-180	180-200	180-220	190-250	250-310
	gpm	5-13	8-13	8-13	12-24	21-29	24-32	34-40	37-42	32-48	48-53	48-58	50-66	66-82
Impact Rate	bpm	550-1200	450-900	400-1,500	450-800	450-800	400-900	400-800	400-800	350-550	350-700	300-500	300-600	250-450
	joule	480	849	849	1,764	2,443	4,234	5,290	5,600	6,200	7,200	8,550	9,970	13,125
Impact Power	ft-lb	354	627	627	1,302	1,803	3,125	3,904	4,133	4,576	5,314	6,310	7,330	9,686
	mm	∅55	∅68	∅72	∅85	∅100	∅120	∅135	∅135	∅140	∅150	∅155	∅160	∅175
Tool Diameter	inch	2.16	2.7	2.8	3.3	3.9	4.7	5.3	5.3	5.5	5.9	6.1	6.3	6.7
	mm	13	13	13	19	19	19	25	25	25	32	32	32	32
Hose Diameter	inch	1/2	1/2	1/2	3/4	3/4	3/4	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4
	ton	1-3.5	2-7	5-8	7-9	9-12	13-18	18-24	20-26	22-26	28-35	36-40	40-49	50-65
Suitable Excavator	lb	2,205-7,717	4,410-15,435	11,025-17,640	15,435-19,845	19,845-26,460	28,665-39,690	39,690-57,330	44,100-57,330	48,510-57,330	61,740-77,175	79,380-88,200	88,200-108,045	110,250-143,325

* Above specifications are subject to change without notice.

Specification Hydraulic Breaker (Side Bracket) - Side Type

Description		FINE 4	FINE 5	FINE 6BL	FINE 7	FINE 10	FINE 15	FINE 23 Plus	FINE 35	FINE 37	FINE 45	FINE 50
Operating Weight	kg	175	275	400	490	785	1,350	1,880	2,450	2,650	3,280	4,100
	lb	386	606	882	1,080	1,731	2,977	4,145	5,402	5,843	7,232	9,041
Overall Height	mm	1,420	1,586	1,535	1,946	2,338	2,440	2,707	3,046	3,150	3,258	3,726
	inch	55.4	61.9	59.9	75.9	91.2	95.2	105.6	118.8	122.9	127.1	145.3
Operating Pressure	bar	90-120	90-130	90-130	130-150	150-170	150-180	160-180	160-200	160-200	160-200	160-200
	psi	1,305-1,740	1,305-1,885	1,305-1,885	1,885-2,175	2,175-2,465	2,175-2,610	2,320-2,610	2,320-2,900	2,320-2,900	2,320-2,900	2,320-2,900
Required Oil Flow	lpm	20-50	30-50	30-50	45-90	80-110	90-120	120-180	180-200	180-220	190-250	250-310
	gpm	5-13	8-13	8-13	12-24	21-29	24-32	32-48	48-53	48-58	50-66	66-82
Impact Rate	bpm	550-1200	450-900	400-1,500	450-800	450-800	400-900	350-550	350-700	300-500	300-600	250-450
	joule	480	849	849	1,764	2,443	4,234	6,200	7,200	8,550	9,970	13,125
Impact Power	ft-lb	354	627	627	1,302	1,803	3,125	4,576	5,314	6,310	7,358	9,686
	mm	∅55	∅68	∅72	∅85	∅100	∅120	∅140	∅150	∅155	160	∅175
Tool Diameter	inch	2.16	2.7	2.8	3.3	3.9	4.7	5.5	5.9	6.1	6.3	6.7
	mm	13	13	13	19	19	19	25	32	32	32	32
Hose Diameter	inch	1/2	1/2	1/2	3/4	3/4	3/4	1	1 1/4	1 1/4	1 1/4	1 1/4
	ton	1-3.5	2-7	5-8	7-9	9-12	13-18	18-24	22-26	28-35	36-40	40-49
Suitable Excavator	lb	2,205-7,717	4,410-15,435	11,025-17,640	15,435-19,845	19,845-26,460	28,665-39,690	48,510-57,330	61,740-77,175	79,380-88,200	88,200-108,045	110,250-143,325

* Above specifications are subject to change without notice.

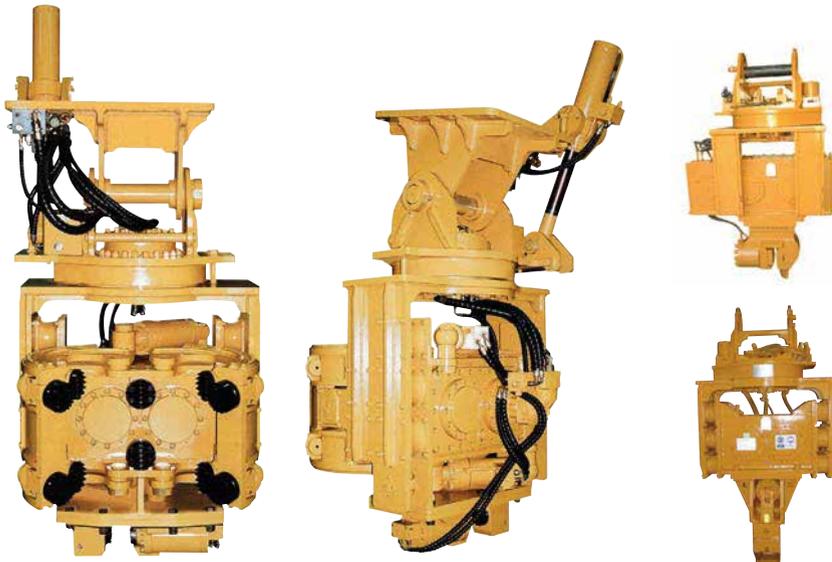


Hydraulic Sheet Pile Driver

Excellent Performance and Mechanisms no need any external power source
 Easy Operation and Maintenance designed 360° free Rotation for Aligning the pile
 Cost Saving as Simple Installation Hydraulic Breaker Piping + Electric Control Box
 High Maneuverability
 Unprecedented Dynamic Power

Side-Grip Pile Driver

Unnecessary to install Extension Boom
 Available to Direct catch Pile & Pipe & H-Beam.
 Available to work with 20m into grounds & underwater
 Tow of Grips for vibration by Bottom cylinder & Side cylinder



Specification Pile Driver

Description			VIBRO200	VIBRO300	VIBRO300SG
Working Weight	Pile Driver	kg	1,400	1,600	2,300
	Extension Boom	kg	1,500~2,000	1,500~2,000	None
Overall Height		mm	2,020	2,020	2,400
Operating Pressure	Pile Driver	bar	230	230	230
	Chuck	bar	180	180	180
Required Oil Flow	Pile Driver	l/min	380	380	380
	Chuck	l/min	30	30	40
Max. Vibration Force		tons	17	30	30
Frequency		cpm	3,000	3,000	3,000
Max. Width of Chuck Opening		mm	40	40	Side 510 Jaw 100
Suitable Base Machine		tons	18~25	26~40	26~40
Swing / Tilt Angle		°	360 /	360 /	360 / 90
Sheet Piles	- Width of the Pile	mm	400~600	400~600	400~600
	- Depth of the Pile	mm	100~200	100~200	100~200
H-beams (Size)		mm	H200~400	H200~400	H200~400
Tubes (Option) (Size)		∅			200~280
			Order an making ∅ ~ 280		

* Above specifications are Subject to change without prior notice.

Hydraulic Compactor

Useful for road construction, foundation & backfill
Strong frequency & backfill
Longer lifetime of damper
Changeable bottom plate

Hydraulic Quick Coupler

Attaching FINE Quick Coupler to an excavator takes only ten seconds,
enhancing the working efficiency of excavator
Utility and Great Design
Available to choose Manual Type



Specification Compactor

Description		FHC 605	FHC 615	FHC 625
Operating Weight	kg	250	600	900
Vibratory Force	ton	2.5	5.0	8.0
Operating Pressure	bar	90~130	90~130	120~180
Overall Height	mm	850	900	1,300
Overall Width	mm	600	850	1,200
Suitable Base Machine	ton	3.0~7.0	8.0~16.0	17.0~35.0

Specification Quick Coupler

Description		FDQC 030	FDQC 060	FDQC 080	FDQC 100	FDQC 140
Overall Dimension	mm	543 x 306 x 225	765 x 388 x 346	925 x 493 x 414	1,020 x 575 x 508	1,270 x 625 x 550
Operating Weight	kg	60	90	240	320	410
Operating Pressure	bar	40	40	40	40	40
Required Oil Flow	l/min	10~20	10~20	10~20	10~20	10~20
Available Width	mm	230~280	380~420	455~485	490~545	530~610
Suitable Machine	ton	3~4	10~17	18~25	28~30	32~40

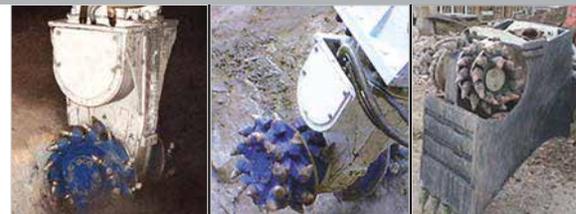
FINE Rotary Cutter

Rocut versatile rotary drum cutter attachable 3 models.

The multi-purpose rotary drum cutter puts you on top.

Every job, every time. It's the unique type of auger drum cutter.

The most annoying problem: Noise pollution FINE auger drum cutter dramatically reduced noise level.
FINE rotary cutters come in three basic models.
They are flexible, rugged, with Low noise and Little vibration.
The rotary drum cutter will give you the competitive edge in the 21c.



Asphalt removal
Tunneling / Mining
Concrete demolition
Trenching work
Underwater grounding
Civil engineering
Stump removal
Rock excavation
Pig iron slag and ice

Specification

Description		ROCUT 130	ROCUT 200	ROCUT 300
Drum Speed	rpm	68	70	60
Bit Type		Point Attack	Point Attack	Point Attack
Weight without Mounting Bracket	Kg	1,250	1300	1,850
Applicable Material Hardness	Kg/cm ²	400~600	400~700	500~800
Applicable Excavator	Ton	10~15	15~25	25~35
Unit Cutting Capacity	m ³ /H	7~12	12~15	13~20
Drum diameter	mm	510	510	530
Cutting Force	Kg.f	3,300	3,300	4,800
Recommended Oil Valve	Kg.f/cm ²	250	250	250
Cutting Width	mm	1,150	1,150	1,200

* Above specifications are Subject to change without prior notice.



Hydraulic Crusher Pulverizer Series

**FINE Crusher is an efficient attachment
for the separation of steel from concrete.**

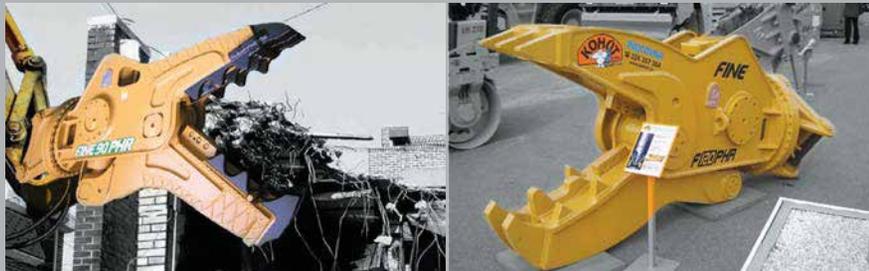
FMC Crusher Arms are inter
changeable with Shearing Arms.



Shearing Arm



FMC Series



High Operating Efficiency

High-speed opening mechanism of the jaws increases efficient working procedures and 360 degree rotating mechanism with / without hydraulic motor / without motor.

Excellent Quality & Stability

Abrasive-resistant special materials ensure longer durability. Protected safety cover on cylinder rod.

FINE Pulverizer easy for Primary & Secondary Demolition.

Wide arm easily completes out concrete demolition & pulverizing works.

Advanced design, structure & high-strength with abrasion-resistant teeth ensure durability and low maintenance costs. 360-degree hydraulic rotating mechanism with hydraulic motor.



P & PHR Series

Specification P & PHR Series(Primary & Secondary Pulverizing)

Description		FINE 90P	FINE 90PHR	FINE 120P	FINE 120PHR
Operating Weight	kg	1,700	1,950	2,300	2,750
Operating Pressure	bar	280	280	280	280
Crushing Force	ton	118	118	138	138
Max. Operating Width	mm	865	850	985	995
Cutter Length	mm	180	180	180	180
Overall Height	mm	2,300	2,407	2,520	2,705
Overall Width	mm	1,340	1,223	1,600	1,411
Suitable Base Machine	ton	18.0~26.0	18.0~26.0	25.0~35.0	25.0~35.0

Specification FMC Series(Multi Rotating Crusher & Shear)

Description		FMC 60	FMC 150	FMC 200	FMC 300
Operating Weight	kg	580	1,300	1,870	2,930
Operating Pressure	bar	200	280	320	320
Crushing Force	ton	2 x 45	2 x 60	2 x 105	2 x 176
Max. Operating Width	mm	680	700	800	1,000
Cutter Length	mm	140	180	200	200
Overall Height	mm	1,505	1,840	2,180	2,455
Overall Width	mm	1,003	1,196	1,255	1,559
Suitable Base Machine	ton	7.0~12.0	12.0~18.0	18.0~26.0	28.0~36.0

Hydraulic Grab Series



Stone Grab



Wood Grab



Orange Grab

Specification Stone Grab

Description		FSG 130	FSG 220	FSG 400
Operating Weight	kg	800	1,300	2,200
Max. Operating Width	mm	1,300	1,800	2,400
Overall Length	mm	1,600	2,100	2,700
Suitable Excavator	ton	8~15	18~32	35~45

Specification Wood Grab

Description		FWG 03R	FWG 06R
Operating Weight	kg	250	800
Max. Operating Width	mm	1,000	1,300
Overall Length	mm	900	1,600
Suitable Excavator	ton	4~6	8~15

Specification Orange Grab

Description		FOG 800	FOG 1000	FOG 1300
Operating Weight	kg	1,250	1,650	2,300
Max. Operating Width	mm	1,800	1,900	2,400
Suitable Excavator	ton	23~28	26~32	35~45

- High-strength & abrasion-resistant arms ensure durability and low maintenance costs.
- 360 degree rotating mechanism
- Wide Arm opening
- Minimized weight



FEELENG®