





We are well aware of the fact that a company's future lies on hands of the customer, thus customer satisfaction is firstly considered in all matters.

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.

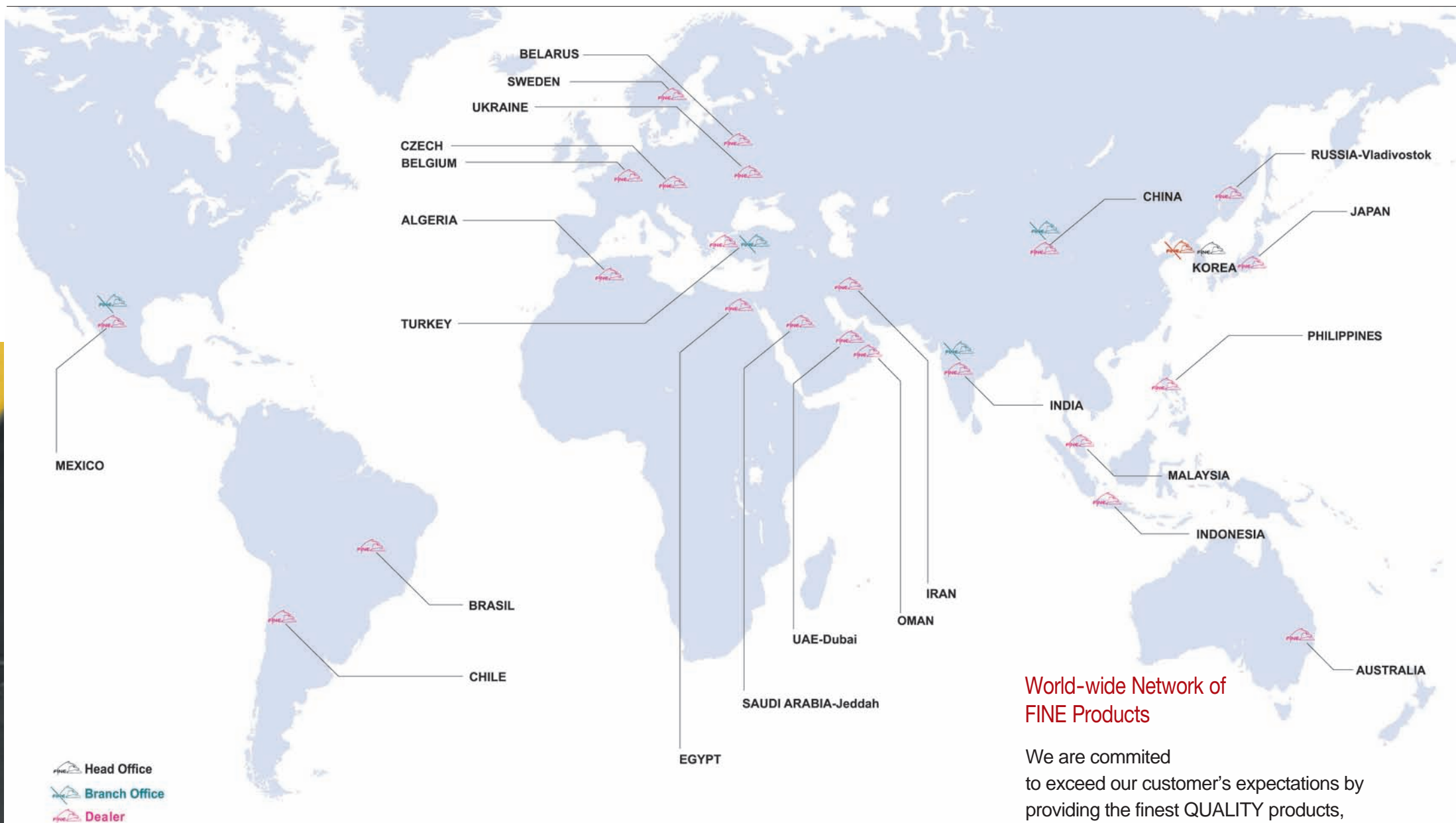
We want to be the cutting edge of technology, developing and making the construction equipment(attachments) that are needed in the new millennium, and providing them at the right price followed by the excellent after-sales service. Our company offers you technical information whenever you need it. We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







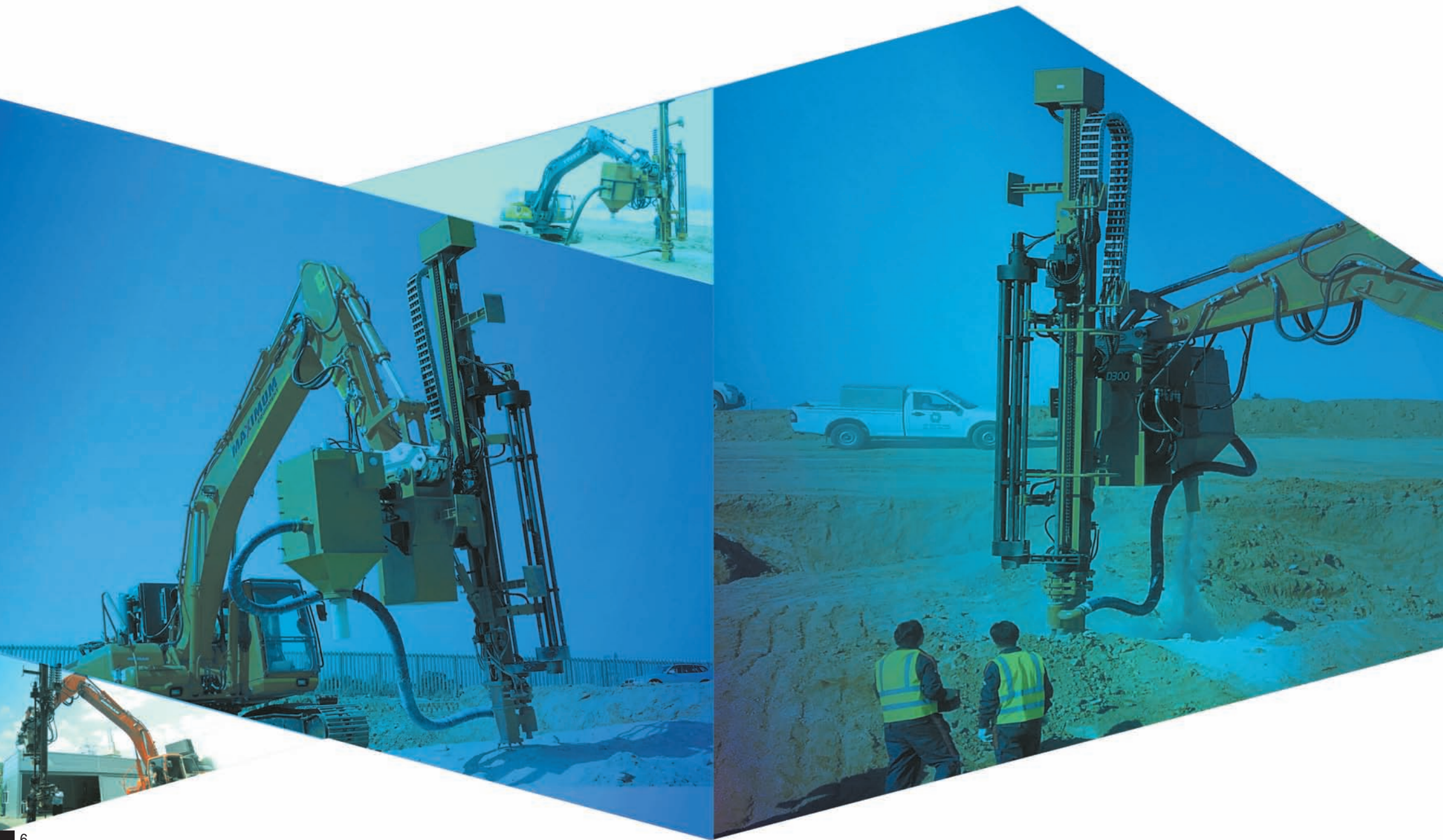
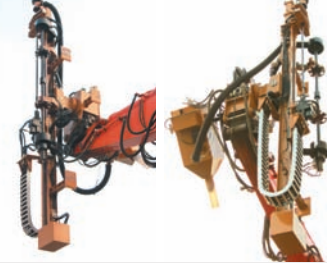
NEW Hydraulic Breaker

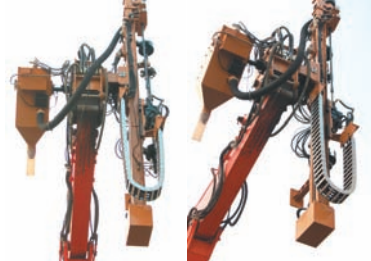
FINE
23X
Hydraulic Breaker

***FEEL the Value!
Always FINE!***

NEW Excavator Rock Drill







| Excavator Rock Drill |

EX-DRILL 50
EX-DRILL 150
EX-DRILL 300
EX-DRILL 400
TWIN EX-DRILL



Excavator Rock Drill

Is a hydraulic drill which was developed domestically by our research and development team as a highly efficient excavator attachment for drilling holes of various sizes.



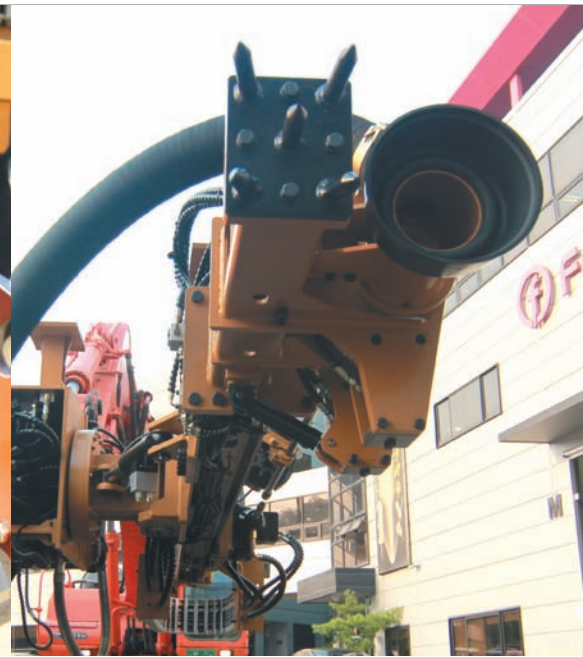
Combination of the Excavator and Crawler Drill !!

The special attachment, EX-Drill series provides you with economical and efficient performance through multiple functions using the hydraulic power of excavator and wide working range. Convenient and easy control system of the EX-Drill enable you to work the drilling with existing excavator without further investment.

The optimized design of the EX-Drill to show the powerful performance and durability at the job sites ensures safety and comfort work as well as easy access to the key components in order for simple and rapid maintenance. In addition, Accumulated technology and service of Feeleng will give you the best satisfaction continuously.

To maximize the reduction of cost at the job sites, Choice of the EX-Drill will be the best decision for you.

- Same function & Same option as the Crawler drill
- Reasonable Price
- High-Productivity
- Less Maintenance
- Superior durability
- Solid Structure

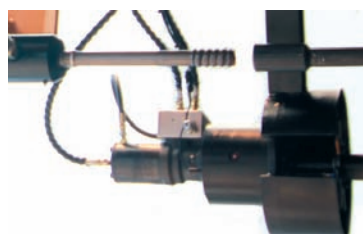
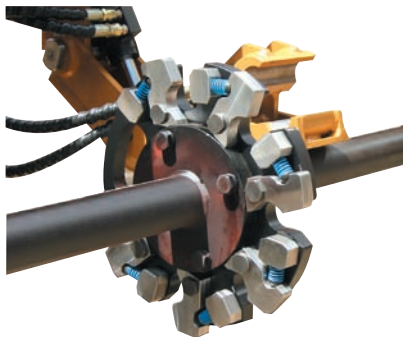


Rod holding system

- The safety rig for prevention of rod dropping

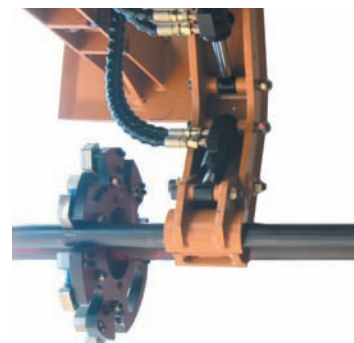
Positioning Sensor

- The rod is exactly positioned by sensors



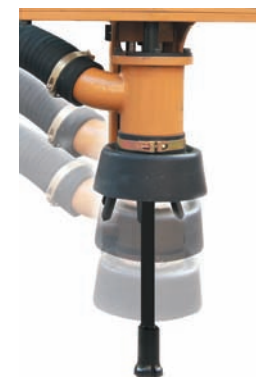
Auto rod changer Rod moving arm

- The rod is safely and quickly changed by moving arm.

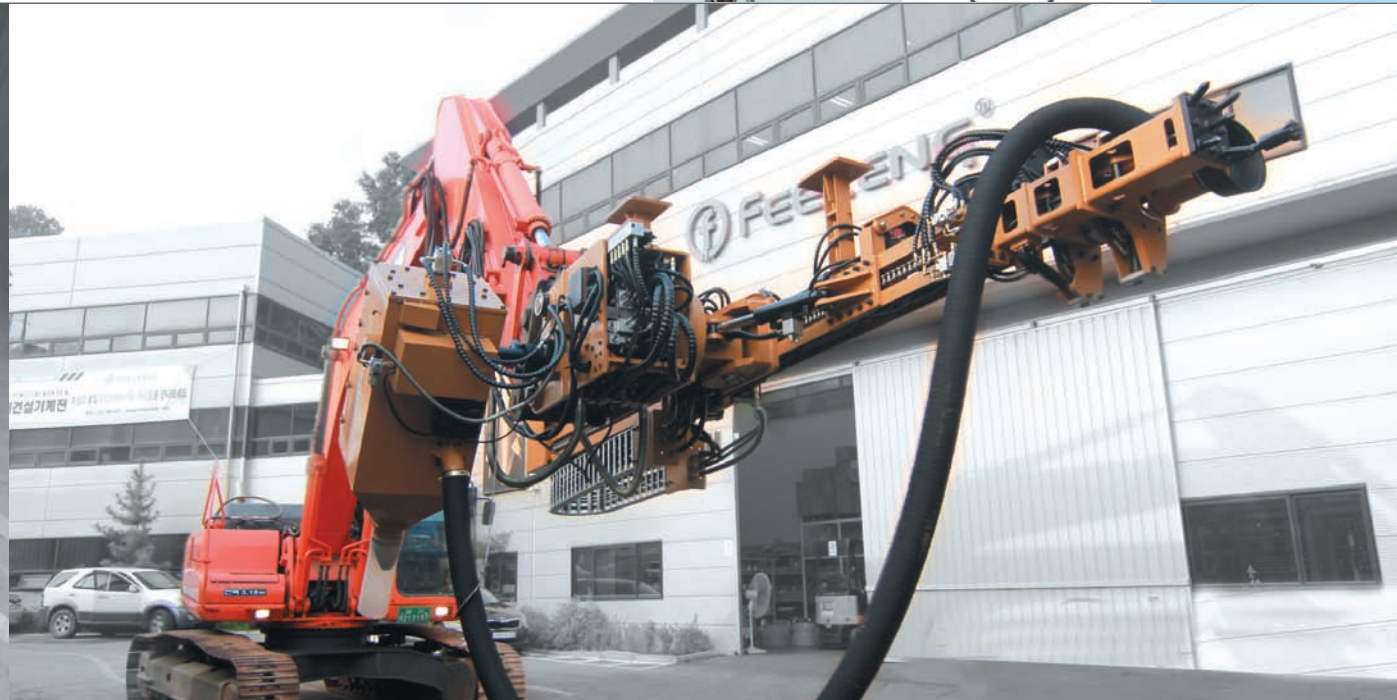


Sliding dust hood

- Increase of suction efficiency
- Easy check for first rod drilling



Pre-Cleaner



Features

- Easy installation using two hydraulic lines
- Inclusion of the crawler drill's main functions
(Auto rod changer, Dust collector, Air compressor)
- Optimized design & Substantial structure
- Simple attachment & detachment
- same as other attachments
- Cable and wire - less control
- wide view & safe working of operator,
- Strong power of drifter

Advantages

- Reasonable cost for drilling work
(Cost-cutting ; fuel & labor & transportation)
- Easy transportation - 5tons truck available
- Wide working range - Advantage in slope, rough terrain, upward drilling
- Simple & easy control
- Competitive price than other drilling rig
- Simple repair & low maintenance cost

Application

- Drilling for blasting hole at Quarry, Mining
- Anchoring, rock bolting, draining
- Trenches and roads opening
- Rough terrain construction
- High reach drilling.

FEEL the Value! Always FINE!



■ Specifications of FINE Attachment Rock Drill

Make & Mode	FINE Rock Drill				
	EX-Drill 50	EX-Drill 150	Twin EX-Drill	EX-Drill 300	EX-Drill 400
Dimension					
Weight	1000kg	1500kg	2850kg	3100kg	3500kg
Length	2500mm	3400mm	3500mm	6300mm	6300mm
Width	1200mm	1850mm	1500mm	2765mm	2765mm
Height	900mm	1235mm	1350mm	1310mm	1310mm
Feed System					
Working Range	45 degree	280 degree	280 degree	280 degree	280 degree
Tilte	90 degree	90 degree	-	15 degree	15 degree
Feed Force, max.	8kN	10kN	10kN/10kN	28kN	28kN
Tractive Force, max	10kN	12kN	32kN/32kN	32kN	32kN
Total Length	3400mm	3400mm	3500mm	6300mm	6300mm
Travel Length	1500mm	2025mm	2000mm	4000mm	4000mm
Drifter					
Model	FD 50/ Doofor503S	FD300	FD300	FD300	FD400
Weight	77kg	150kg	150kg x 2	150kg	210kg
Impact Power	10kw	11kw	12w x 2	12kw	20kw
Rotation Speed	0~250rpm	0~290rpm	0~290rpm x 2	0~290rpm	0~290rpm
Rotation Torque	175Nm	630Nm	630Nm x 2	630Nm	690Nm
Hydraulic Pressure(I+R)	145bar	180bar	220bar	220bar	220bar
Hydraulic Oil Flow(I+R)	80 lpm	90 lpm	200lpm	115 lpm	135 lpm
Compressor					
Model	-	-	-	-	UP30
Weight	-	-	-	-	860kg
Air flow	-	-	-	-	180CFM / 6.2 m3/min
Max. Air Pressure	-	-	-	-	5bar
Oil Flow Requested	-	-	-	-	90~110 lpm
Oil Pressure Requested	-	-	-	-	200~220 bar
Power	-	-	-	-	37.3kw
Cooling	-	-	-	-	DC24V Double Fan
Dust Collector					
Number of Filters		4	4	6	6
Suction Cap.		900CFM / 25.5 m3	900CFM / 25.5 m3	1059CFM / 30 m3	1059CFM / 30 m3
Auto-Rod Changer					
Numbr of Rods(Std.)	1	1	1	1+3	1+6
Bit Diameter	41mm~76mm	55mm~ 105mm	55mm~ 105mm	64mm~ 105mm	76mm~ 127mm
Rod size	R32	T38	T38	T38/T45	T38/T45
Max. Hole Depth	1m	1.5m	1.5m	12m	21m
First Rod Length	1220mm	1830mm	1830mm	3660mm	3660mm
Suitable Machine					
	Exca.6~10tons Skide Loader 5~8tons	Exca. 8~20tons	Exca. 18~32tons	Exca. 2 0~26tons	Exca. 32~45tons

* Above specifications are Subject to change without prior notice.



FD-400 Drifter

Powerful performance / Superior productivity.

FD-400 has been especially developed by accumulated technologies and experiences of FINE Breaker for over five years.

It shows high-speed performance and straight drilling with forceful impact and rotation.

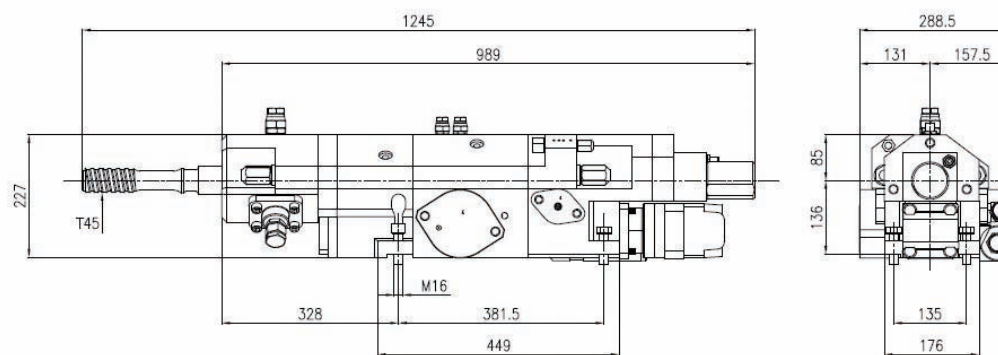
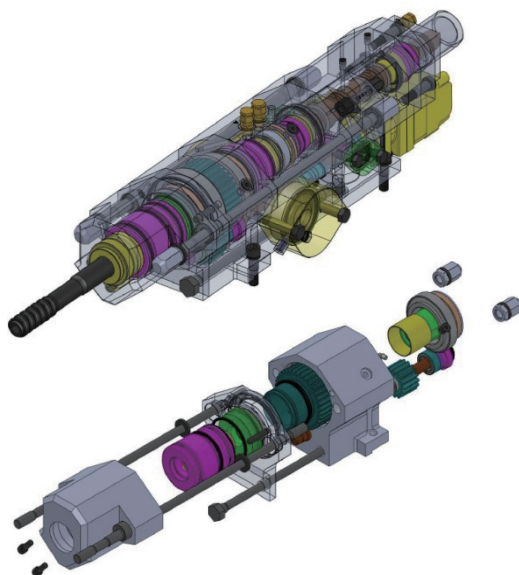
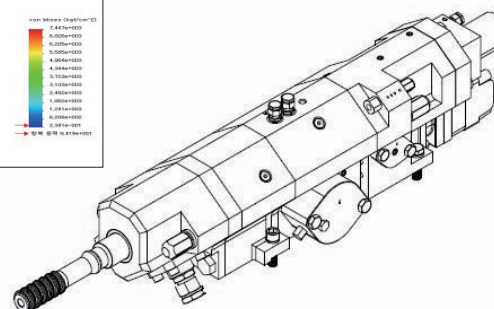
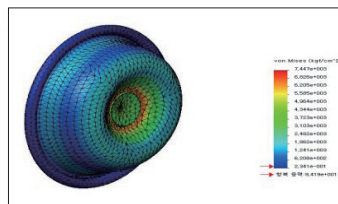
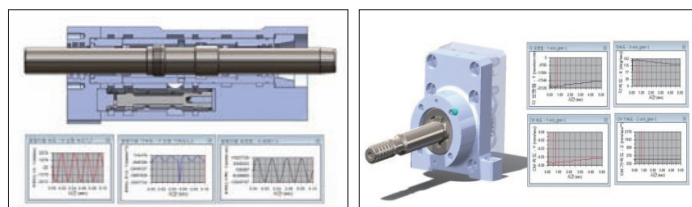


- High-speed, hydraulic rock drills for long-hole drilling in the hole range 76-127mm
- High penetration rates and excellent drill steel life
- Minimized number of parts and simple structure enable customers to save the maintenance costs and repairing times

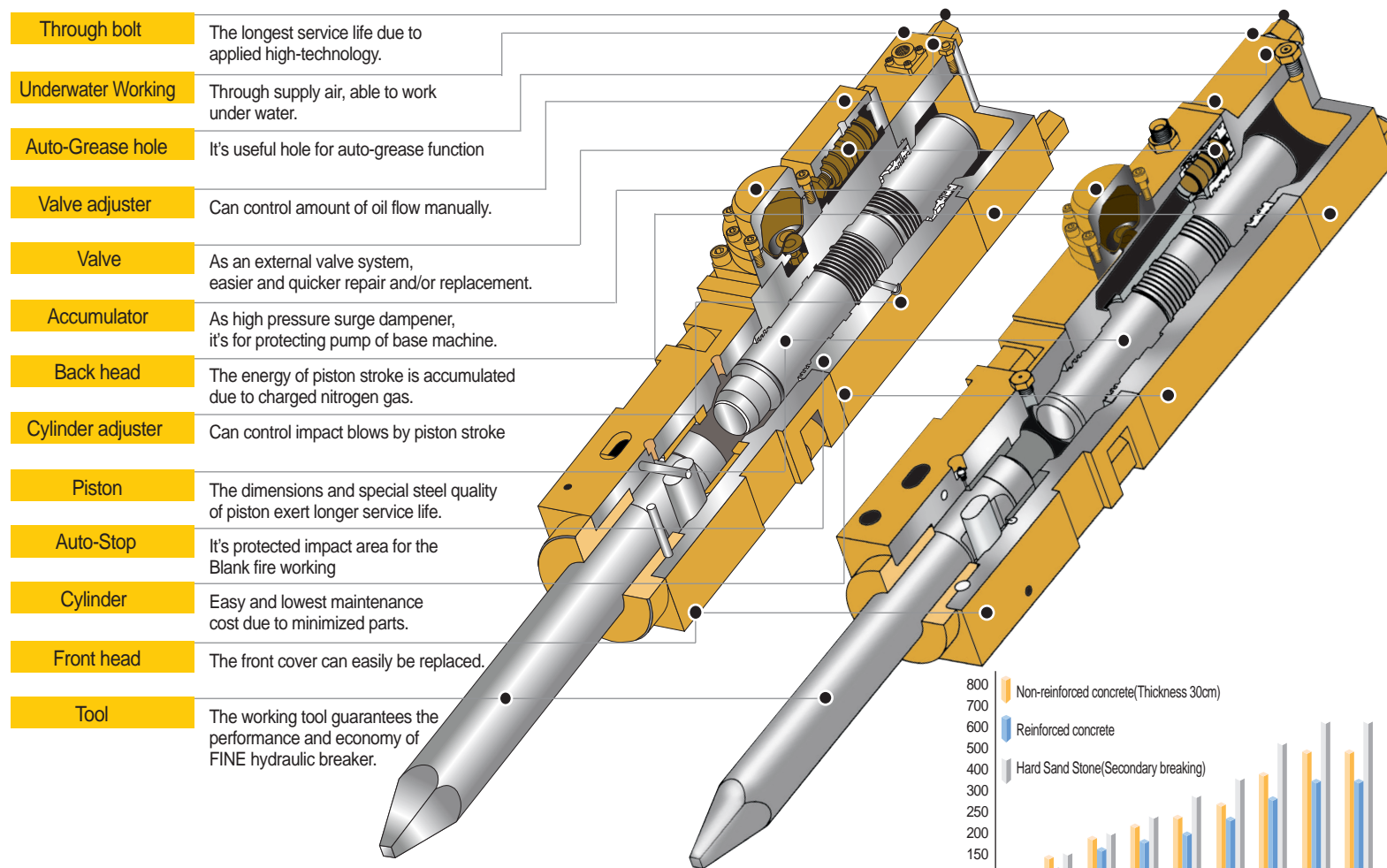
■ Specifications

Model	FD-400
Weight	210kg
Impact Power	20kW
Rotation Speed	0 - 290rpm
Rotation Torque	690 Nm
Hydraulic Pressure	160 bar
Hydraulic Oil Flow	135 lpm

- Optimum Piston design matches the size of the drill steel.
This feature gives minimum drill steel stress
- FD-400 was 3D-designed and accurately pre-tested by special software programs in order for optimized structure.
- The performance and durability of FD-400 has been verified at various job sites

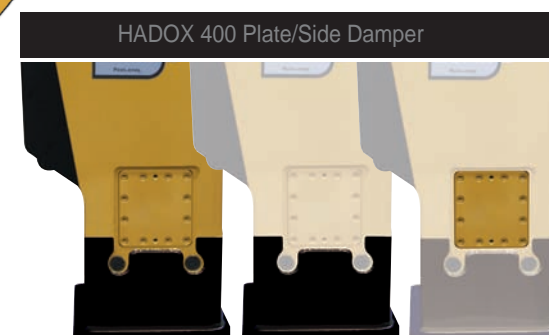




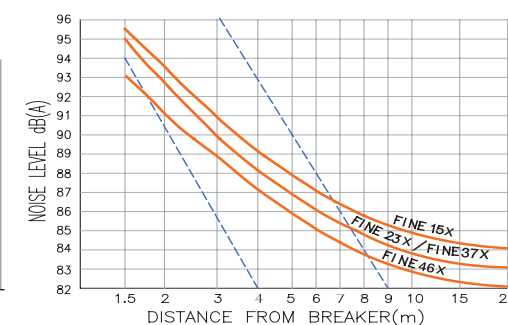
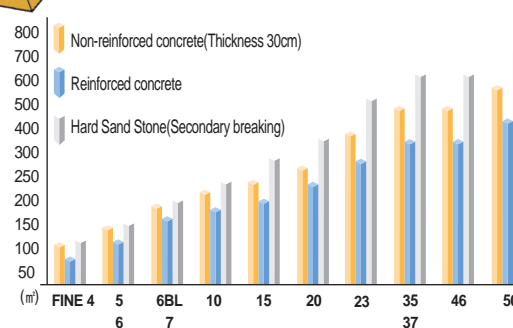


■ Strong point of FINE Breaker

- Use special steel(Hadox)
- Minimize shock with side damper
- Under water working and auto-grease system



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





NEW 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





■ Specification for Hyd. Breaker (Silenced) X-Series, Close Type

Description		MINI EXCAVATOR				SMALL EXCAVATOR				MEDIUM EXCAVATOR				LARGE EXCAVATOR				
		FINE1X	FINE2X	FINE 3X	FINE 4X	FINE 5X	FINE 6X	FINE 7X	FINE 10X	FINE 12X	FINE 16X	FINE 21X Plus	FINE 23X Plus	FINE 37X	FINE 46X	FINE 50X	FINE 65X	FINE 80X
Operating Weight	kg	120	138	145	200	350	400	585	870	920	1,220	1,660	1,760	2,350	3,000	3,500	3,790	6,300
	lb	265	305	320	441	772	882	1,290	1,918	2,029	2,690	3,659	3,881	5,182	6,615	7,718	8,356	13,889
Overall Height	mm	1,105	1,105	1,271	1,420	1,586	2,338	1,946	2,338	2,400	2,440	2,500	2,707	3,100	3,532	3,726	3,740	4,200
	inch	43.5	43.5	49.6	55.4	61.9	91.2	75.9	91.2	93.6	95.2	97.5	105.6	120.9	137.7	145.3	147.2	165.4
Operating Pressure	bar	90-110	90-110	80-110	90-120	90-120	90-130	130-150	150-170	150-180	150-180	160-180	160-180	160-180	160-200	160-180	150-180	180-210
	psi	1,305-1,595	1,305-1,595	1,160-1,595	1,305-1,740	1,305-1,740	1,305-1,885	1,885-2,175	2,175-2,465	2,175-2,610	2,175-2,610	2,320-2,610	2,320-2,610	2,320-2,610	2,320-2,900	2,320-2,755	2,175-2,610	2,610-3,046
Required Oil Flow	lpm	15-30	15-30	20-40	20-50	30-50	45-90	45-90	80-110	90-120	90-120	100-160	120-180	180-220	190-250	250-310	230-350	300-400
	gpm	3-8	3-8	5-11	5- 13	8-13	12-24	12-24	21-29	24-32	24-32	26-42	32-48	48-58	50-66	66-82	61-92	79-105
Impact Rate	bpm	700-1,300	700-1,300	600-1000	550-1200	450-900	400-800	450-800	400-900	400-900	350-600	350-550	300-500	300-700	250-450	200-400	180-350	
Impact Power	joule	210	210	248	480	849	1,250	1,764	2,443	3,000	4,234	5,300	6,200	8,550	11,040	13,125	13,630	16,598
	ft-lb	155	155	183	354	627	922	1,302	1,803	2,214	3,125	4,005	4,576	6,273	8,147	9,686	10,053	12,242
Tool Diameter	mm	Ø36	Ø40	Ø45	Ø53	Ø68	Ø72	Ø85	Ø100	Ø110	Ø120	Ø135	Ø140	Ø155	Ø165	Ø175	Ø180	Ø200
	inch	1.4	1.6	1.8	2.1	2.7	2.8	3.4	3.9	4.3	4.7	5.3	5.5	6.1	6.5	6.9	7.1	7.9
Hose Diameter	mm	13	13	13	13	13	13	19	19	19	19	25	25	32	32	32	32	38
	inch	½	½	½	½	½	½	¾	¾	¾	¾	1	1	1¼	1¼	1¼	1¼	1½
Suitable Excavator	ton	0.8-1.5	1.5-2.5	2.5-3.5	3.5 - 4.5	4.5-5.5	5.5-7	7-9	9-12	12-14	14-18	18-22	22-28	28-38	38-48	48-58	50-65	65-85
	lb	1,764-3,307	3,307-5,512	5,512-7,716	7,716-9,921	9,921-12,125	12,125-15,432	15,432-19,842	19,842-26,455	26,455-30,865	30,865-39,683	39,683-48,502	48,502-61,729	61,729-83,776	83,776-105,822	105,822-127,868	110,231-143,300	143,300-187,393

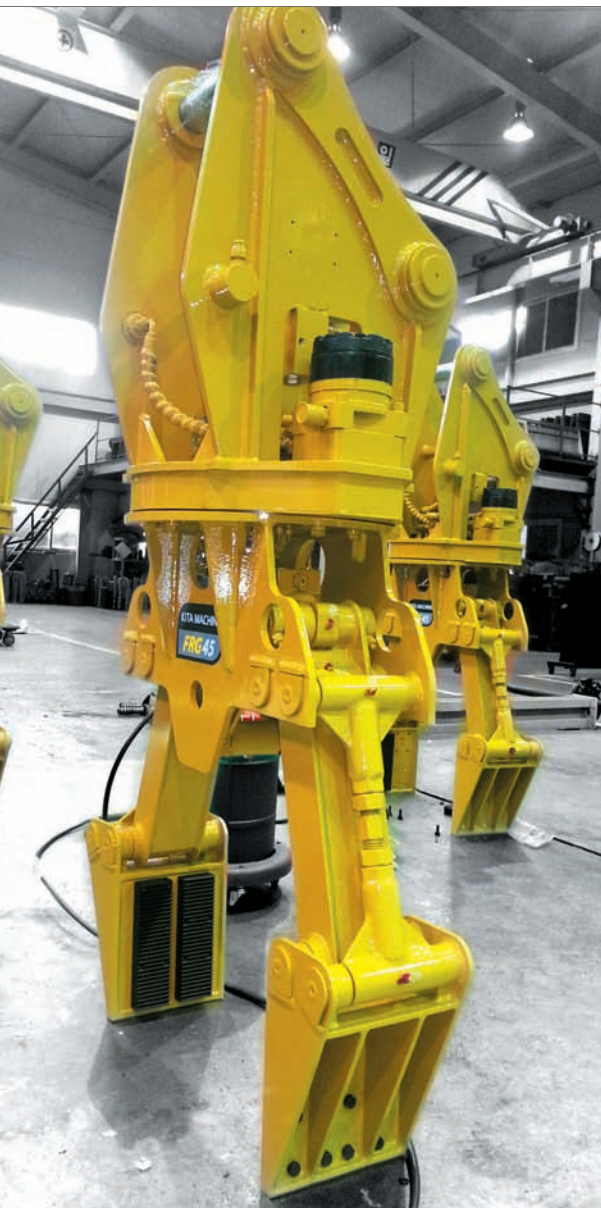
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■ Specification for Hyd. Breaker (Top Bracket), Open Type

Description	SMALL EXCAVATOR					MEDIUM EXCAVATOR				LARGE EXCAVATOR						
	FINE 5T	FINE 6T	FINE 6BL	FINE 7T	FINE 10T	FINE 12T	FINE 16T	FINE 20T	FINE 23T Plus	FINE 35T	FINE 37T	FINE 45T	FINE 46T	FINE 50T	FINE65T	FINE80T
Operating Weight	kg	310	400	320	560	870	1,250	1,650	1,865	2,270	2,650	2,860	3,100	3,700	3,850	6,450
	lb	684	882	705	1,235	1,918	2,756	3,638	4,112	5,004	5,843	6,306	6,836	8,159	8,489	14,222
Overall Height	mm	1,586	2,338	1,535	1,946	2,338	2,400	2,773	2,707	3,046	3,100	3,258	3,532	3,726	3,750	4,100
	inch	61.9	91.2	60.4	75.9	71.1	93.6	95.2	105.6	118.8	120.9	127.1	137.7	145.3	146.25	159.9
Operating Pressure	bar	90-120	90-130	90-120	130-150	150-170	150-180	150-180	160-180	160-180	160-180	160-180	160-200	160-180	150-180	180-210
	psi	1,305-1,740	1,305-1,885	1,305-1,740	1,885-2,175	2,175-2,465	2,175-2,610	2,175-2,610	2,320-2,610	2,320-2,610	2,320-2,610	2,320-2,610	2,320-2,900	2,320-2,610	2,175-2,610	2,610-3,046
Required Oil Flow	lpm	30-50	45-90	30-50	45-90	80-110	90-120	130-150	120-180	180-200	180-220	190-250	190-250	230-310	230-350	300-400
	gpm	8-13	12-24	8-13	12-24	21-29	24-32	34-40	32-48	48-53	48-58	50-66	50-66	66-82	61-92	79-105
Impact Rate	bpm	450-900	400-800	450-900	450-800	450-800	400-900	400-900	400-800	350-700	300-500	300-600	300-700	250-450	200-400	180-350
	joule	849	1250	849	1,764	2,443	3,000	4,234	6,200	7,433	8,550	9,970	11,040	13,125	13,630	16,598
Impact Power	ft-lb	627	922	627	1,302	1,803	2,214	3,125	4,576	4,990	6,273	7,330	8,147	9,686	10,053	12,242
	mm	Ø 68	Ø 72	Ø 72	Ø 85	Ø 100	Ø 110	Ø 120	Ø 135	Ø 150	Ø 155	Ø 160	Ø 165	Ø 175	Ø 180	Ø 200
Tool Diameter	inch	2.7	2.8	2.8	3.4	3.9	4.3	4.7	5.3	5.9	6.1	6.3	6.5	6.9	7.1	7.9
	mm	13	13	13	19	19	19	25	25	25	32	32	32	32	32	38
Hose Diameter	inch	½	½	½	¾	¾	¾	1	1	1	1¼	1¼	1¼	1¼	1¼	1¼
	ton	4.5-5.5	5.5-7	5-8	7-9	9-12	12-14	14-18	18-20	22-28	28-35	38-46	38-48	48-58	50-65	65-85
Suitable Excavator	lb	9,921-12,125	12,125-15,432	11,023-17,637	15,432-19,842	19,842-26,455	26,455-30,865	30,865-39,683	39,683-44,092	48,502-61,729	61,729-77,162	83,776-101,413	83,776-105,822	105,822-127,868	110,231-143,300	143,300-187,393

* Above specifications are subject to change without notice.



KITAMACHINE FRG-45

- Grabbing, Rotate and install for H-steel
- Easy to grab everything by adoption of parallel link
- Safe to handle even in heavy H-steel
- Too small size, easy to use even in small and narrow space.
- No need 2 attachment hydraulic line (by adoption of the switching solenoid valve)



■ Specifications

Description	KITAMACHINE FRG-45	
Machine Weight	kg	350
Machine Size	mm	1,465 x 712 x 530
Max. Aperture Size	mm	524
Max. Hydraulic Pressure	kgf/cm ²	Gripper 210 Rotate 120
Hydraulic Flow	l/min	40
Mas. Grip Pressure	ton	2.7

* Above specifications are Subject to change without prior notice.

Hydraulic Quick Coupler

- Attaching FINE Quick Coupler to an excavator takes only ten seconds, enhancing the working efficiency of excavator
- Simple & Solid Design
- Auto Safety Locking(Double locking device)



■ Specifications

Description		Q30	Q40	Q50	Q80
Overall Dimension	mm	370 x 180 x 270	470 x 228 x 323	568 x 246 x 345	670 x 320 x 440
	inch	14.5 x 7 x 10.6	18.5 x 9 x 12.7	22.3 x 9.7 x 13.6	26.3 x 12.6 x 17.3
Weight	kg	30	47	70	110
	lb	66	104	155	243
Lifting Capacity	ton	1.5	2	3	5
	lb	3,307	4,409	6,613	11,023
Working Pressure	kgf/cm ²	210	210	210	210
	psi	2,987	2,987	2,987	2,987
Required Oil Flow	l/min	10 ~ 20	10 ~ 20	10 ~ 20	10 ~ 20
	g/min	2.6 ~ 5.3	2.6 ~ 5.3	2.6 ~ 5.3	2.6 ~ 5.3
Pin Diameter	mm	30	40	45	60
	inch	1.18	1.57	1.77	2.36
Pin Center Distance	mm	130 - 150	175 - 195	230 - 270	285 - 340
	inch	5.1 ~ 5.9	6.9 ~ 7.6	9 ~ 10.6	11.2 ~ 13.3

* Above specifications are Subject to change without prior notice.



■ Specifications

Description		FDQC030	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	190	360	400	450
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	25~30	32~40

* Above specifications are Subject to change without prior notice.

■ FINE Rotary Cutters Specification

Item	Unit	Rocut 130	Rocut 200	Rocut 300	Rocut 400
Drum Speed	rpm	68	70	60	45
Bit type	Point Attack	Point Attack			
Weight without Mounting Bracket	kg	1,250	1,300	1,850	2,000
Applicable material hardness	kg/cm ²	400~600	400~700	500~800	600~900
Applicable Excavator	Ton	10~15	15~25	25~35	30~45
Unit Cutting Capacity	m ³ /H	7~12	12~15	13~20	23~35
Drum diameter	mm	510	510	530	530
Cutting Force	Kg.f	3,300	3,300	4,800	6,000
Recommended Oil flow	lpm	120	150	200	250
Recommended Oil Valve	kg.f/cm ²	250	250	250	250
Cutting width	mm	1,150	1,150	1,200	1,300

* Above specifications are Subject to change without prior notice



Rotary Cutter

Others

- | Hydraulic Metal Shear
- | Hydraulic Crusher Series
- | Hydraulic Pulverizer Series
- | Hydraulic Rotary Cutter



High-Q Vibro Ripper - FVR Series

Model		FVR15H	FVR20H	FVR30H	FVR40H	FVR50H
Application Excavator	Ton	12~16	18~26	20~30	28~39	38~55
Operating Weight	Kg	1,500	2,500	3100	4,600	5,600
Oil Flow	l/min	100~120	170~190	180~200	200~220	250~260
Working Pressure	bar	180~200	210~220	240~250	240~250	240~250
Hydraulic Return Pressure	bar	4~5	5~6	5~6	5~6	5~6
Frequency	RPM	1,500	1,600	1,500	1,300	1,200

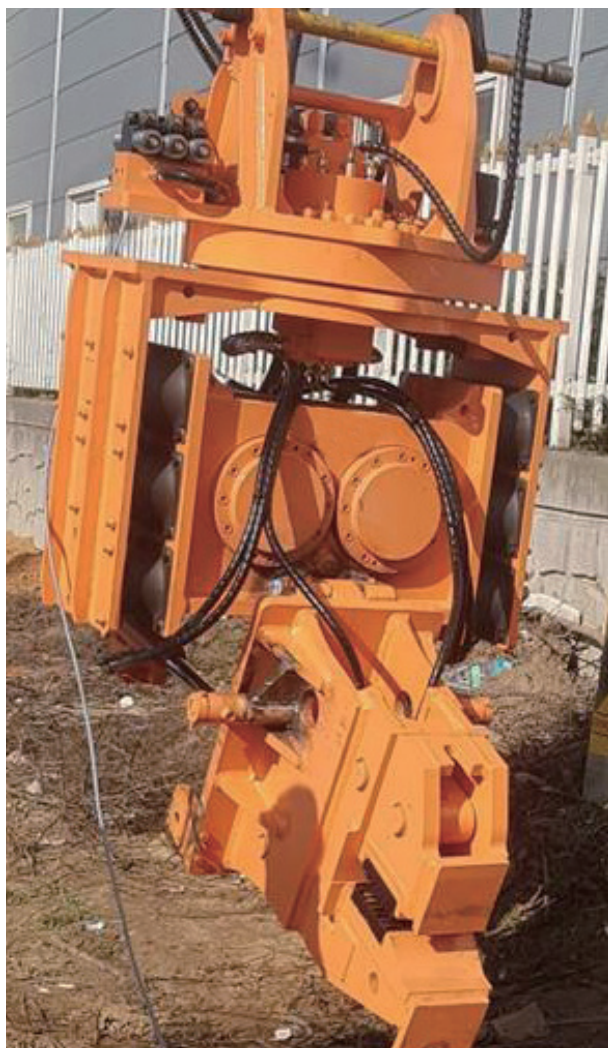
- Excellent productivity / Powerful digging force
- Superior durability / Long-life components
- Optimized structure / Transmission of Less vibration to Excavator



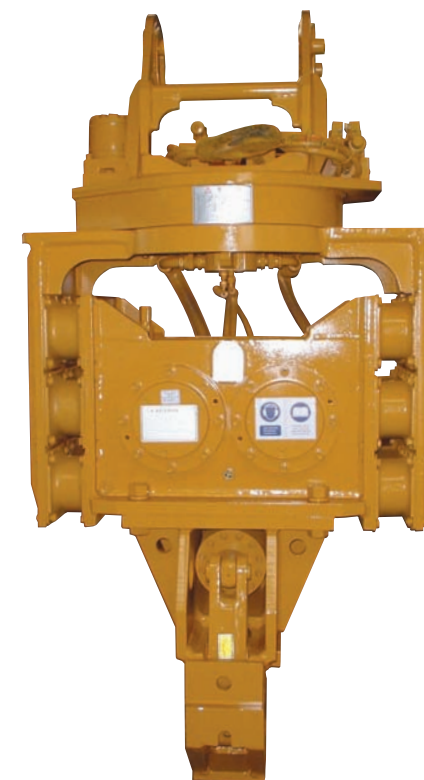
FEEL the Value! Always FINE!



V-300T



V-300



Feel MODEL			V-300	V-300T
Working Weight	Pile Driver	kg	1,600	1,800
	Extension Boom	kg	1,500~2,000	1,500~2,000
Overall Height		mm	2,020	2,100
Operating Pressure	Pile Driver	bar	230	230
	Chuck	bar	180	180
	Tilt Cylinder	bar	none	200
Required Oil Flow	Pile Driver	ℓ/min	220	220
	Chuck	ℓ/min	30	30
Max. Vibration Force		tons	30	30
Frequency		rpm	2,700	2,700
Max. Width of Chuck Opening		mm	40	40
Suitable Base Machine		tons	22~40	22~40
Swing / Tilt Angle		Degree (°)	360 / 0	360 / 80
Sheet Piles - Width of the Pile		mm	400~600	400~600
Sheet Piles - Depth of the Pile		mm	100~200	100~200
H-beams - Size		mm	H200~400	H200~400

- Excellent Performance and Mechanisms unneeded any external power source
- Easy Operation and 360° free rotation for Aligning the pile
- High Maneuverability
- Unprecedented Dynamic Power

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