DRUCE PILING EQUIPMENT



BRUCE

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DAILING EDURG TREMCIUGE

PILE DRIVING & EXTRACTING VIBRATORY HAMMER

BRUCE VIBRO HAMMERS CRANE SUSPENDED TYPE



BRUCE Vibratory Hammers High power & efficient vibratory technology for driving and extracting piles

PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

BRUCE VIBRATORY HAMMERS / VIBRO HAMMERS FOUNDATION & CONSTRUCTION MACHINERY - HYDRAULIC VIBRATORY HAMMER



The Hydraulic vibro hammers have a wide applications in driving and extracting various kinds of piles and are also ideally suited to offshore and onshore, where vibro hammers can operate to considerable depth.

BRUCE PILING EQUIPMENT, the vibro hammer specialist and a worldwide reputable manufacturing and supplier, has introduced a wide range of vibro hammers including suitable power packs that are the most economically benefitted and ensuring high Performance and Efficient vibratory hammer.

BRUCE PILING EQUIPMENT provides a wide applications in driving and extracting the sheet piles, steel pipes, casing piles, H -Beam piles and other profiles that absolutely features with adjusting the vibro frequency, less vibrating effection to the crane and noise reduction along with hydraulic systems to perform the right piledriving work through a wide selection of clamps, elastomer rubbers and followed accessories.





OUTSTANDING FEATURES OF BRUCE VIBRATORY HAMMERS

VARIETY RANGE OF VIBRO HAMMERS

BRUCE Vibro hammers have wide range capacity models with Eccentric Moments from 11.5 kgm to 220 kgm, Centrifugal Forces from 510 kN to 4610 kN can be selected for a customer needs.

BRUCE Vibratory hammers are equipped with most quality and efficient hydraulic motors, bearings and reliable Ecceentrics and elastomer rubbes and others component. Standard Frequency fo BRUCE vibratory hammers are 1500 vpm to 2000 vpm depending on model and other sized vibratory hammers are also available on request.

Excavator Mounted Vibro hammers are also available on request!! The model range of Excavator Mounted Vibro hammers are prepared to suit for mounting on Excavators ranging from 20-50 tons.

PROOF ECCENTRIC CONCEPT OF A GEAR BOX

The Eccentrics are made of high quality steel and accurately machined to guarantee equal centrifugal Force to each eccentric. The Eccentrics that are connected with gears to maintain a proper synchronization, vibration proof, qualified gear and eccentric to gear fasteners guaranteeing a trouble-free and effective pile driving works.

Computer 3D modular design for Gear Box components are perfectly feasible for a perfect center of gravity.

PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

MAIN FEATURES

BRUCE VIBRO MANAGES THE SOIL CONDITION

The BRUCE Vibro Hammers are well known its elaborated and fine machined components consisting of core parts inside the Gear Box and related hydraulic connection system. Hense, The Vibros matched the Centrifugal force and Amplitude optimally to the soil condition with a Flow Adjust volume dial on a Remote Control Pendant to adjust pump flow control for adjusting centrifugal force depends on soil condition at every job sites.

A HANDHOLD REMOTE CONTROL PENDANT

A portable and a handhold BRUCE Remote Control Pendant will help you get the Vibro job done in a set of operating to be more comfortable and accurate ways. The vibrating speed can be adjusted depends on driving condition by the Volume switch on it.

OPTIMUM MATCH TO THE VIBRO PROJECT

The BRUCE Vibro hammers are an efficient hydraulic vibratory hammer that produces vertical vibrations to drive or extract a wide variety of profiles that will help you finished the job done in planed project schedule.

ROBUST DURABLE CLAMPS & WIDE RANGE OF MODELS

BRUCE Vibro hammers have both universal and casing clamps. Robust structure and powerful cylinder of a clamp in handling a pile safety and convenient work can be done. Heavy duty and reliable clamp cylinder equipped with a check valve to keep cylinder pressurized in case of hose damage and alloy steel ensures the life long.

QUALIFIED ELASTOMERS

BRUCE Vibro hammers are equipped with high quality elastomer rubbers which guarantee good shock absorbing and a long service life. Elastomers design makes the Vibro hammers to change elastomers easy and safely.



MAIN FEATURES

BRUCE VIBRO HAMMER

PROUD OF DRIVEABILITY

BRUCE offers the most powerful, reliable & efficient Vibro hammers with simple design for operating ease and efficiency. Adjustable Vibro drive frequency and speed for easy work means a low speed and hard work means high speed by a Remote Control Pendant.

QUALIFIED ELASTOMER RUBBERS

The Suppressor contains Elastomer rubbers to isolate The eccentric weights rotate in a vertical plane to create the vibrations from the vibration case to the crane or pile driving rig. Mechanical stops prevent Elastomer rubbers which take a roll as a shock absorber from stretching during operation. Elastomers provide a minimal of vibration isolation for equipment and personal safety.

APPLY FOR A VARIETY OF AREAS

Compact design of Vibro hammers can be applied many construction areas such as Infrastructure projects detailing bridges, metro, building and trench projects. It is also adaptable for foundation piling working sites.

LOW COST CONSUMABLE PARTS

As BRUCE Vibro hammers choose the qualified suppliers of consumable parts with a long lasting and durable consumable parts are guaranteed. Thus you can save extra valuable money for the parts.

SOLIDITY IN SUSPENSION PART

The suspension part of the Vibro hammers which is coupled to the lifting crane. It is connected to the dynamic part using elastomer rubbers allow a traction during extraction benefited less damage to the crane.

MAXIMUM EFFICIENCY & QUITE OPERATION

High efficiency & quality motors by the gear box consisting of other components like eccentrics, gears, shafts, and bearings deliver power energies to the pile through durability test results in fast and productive driving at the sites.

SIMPLICITY IN DESIGN

The adoption of simple design principle allows easy maintenance and prompt troubleshooting both on control and mechanical side. Together easy operation can be obtained user friendly design of a Remote Control Pendant.

POWERFUL DYNAMIC PARTS

The dynamic part where the eccentric weights are assembled, and clamps if the Vibro hammer is used for pile driving and extraction, these are used for transmitting the motion to the eccentric weights.

CREATE MORE AMPLITUDE

Precision cast high density eccentric moment combined with a low mass transmission provides the maximum possible pile amplitude. It shows exceptional performances both temporary and fixed constructions. Amplitude is designed for most efficient performance.

PROOF OF GEAR BOX ASSEMBLY

vibration in a gear box. It is gear connected to maintain proper synchronization, vibration proof, gualified gear and eccentric to gear fasteners are guaranteed to never fail. Extremely low vibration created environmentally friendly low noise and localized directional vibration.

MAIN PARAMETERS OF BRUCE VIBRO

MOMENT corresponds to the distance between the rotation axis and the eccentric center of gravity.

FREQUENCY corresponds to the number of turns per minutes of the eccentric weights.

AMPLITUDE defines as the vertical run of the dynamic part unit determined by its overall weight and the eccentric moment.

EXTRACTING is the maximum pull that can be applied in the suspension. The Vibro has an end-stop plate which stops the operator from having an excessive traction for the elastomers on the suppressor.



BRUCE VIBRO HAMMER FEATURES



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PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

BRUCE VIBRO HAMMER MODEL

			BRUCE SGV-80	BRUCE S6V-100	BRUCE SSV-200	BRUCE SGV-300
BRUCE VIBRO	HAMMER	MODEL	SGV-80	SGV-100	SGV-200	SGV-300
Eccentric mom		kg- in-l Nm	bs 998	17.3 1,502 170	26 2,257 255	34 2,951 333
Centrifugal for	се	ton kN	s 51 510	62 620	84 840	112 1,120
Max. frequenc	У	vpr	n 2,000	1,800	1,730	1,730
Amplitude incl	sheet pile c	lamp mn incl		22 0.875	19 0.75	19 0.75
Max. line pull f	or extractior	n ton kN	is 25 250	30 300	40 400	40 400
Max. hydraulic power		kW HP	91 121	144 193	191 256	191 256
Max. operating pressure		bar psi	320 4,641	320 4,641	320 4,641	320 4,641
Max. oil flow		lpm gpr		270 71	360 95.1	360 95.1
Overall length,	L	mn incl		1,665 65.6	2,401 94.5	2,620 103.2
Overall width,V	V	mn incl		402 15.8	480 18.9	480 18.9
Overall height sheet pile clam		mn incl	Kell I	2,350 92.5	2,675 105.3	2,850 112.2
Weight with sh	neet pile clar	np kg Ibs	2,400 4,410	2,900 6,393	4,526 9,978	5,370 11,839
Clamping Hea	ad					
	N	IODEL	60U	80U	100U	130U
Sheet pile clamp	Force	tons kN	60 600	80 800	100 1,000	130 1,300
	Weight	kg Ibs	250 551	480 1,058	500 1,102	640 1,411
	N	IODEL	2x40D	2x40D	2x80D	2x80D
Double clamp (Casing pile	Force	tons kN	80 800	80 800	160 1,600	160 1,600
clamp)	Weight	kg	1,00	1,000	1,408	1,408

2,205

PQ-200V

2,205

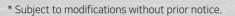
PQ-250V

3,104

PQ-350V

3,104

PQ-350V



Suitable Power Pack Series

with Beam Ibs



BRUCE	SGV-100
1111	
(Hanne)	in all

BRUCE VIBRO HAMMER MODEL		SGV-400	SGV-450	SGV-600	SGV-1000	SGV-2000
Eccentric moment	kg-m	46	52	76	110	220
	in-lbs	3,993	4,513	6,596	9,548	17,359
	Nm	451	510	745	1,079	2,157
Centrifugal force	tons	148	166	215	305	461
	kN	1,480	1,660	2,150	3,050	4,610
Max. frequency	vpm	1,710	1,700	1,600	1,590	1,380
Amplitude incl sheet pile clamp	mm	18	19	26	25	20
	inch	0.71	0.75	1.03	0.98	0.79
Max. line pull for extraction	tons	60	80	100	120	180
	kN	600	800	1,000	1,200	1,800
Max. hydraulic power	kW	297	318	397	581	900
	HP	398	427	530	780	1,207
Max. operating pressure	bar	320	320	320	320	320
	psi	4,641	4,641	4,641	4,641	4,641
Max. oil flow	lpm	560	590	745	1,100	1,689
	gpm	148	156	197	291	446
Overall length, L	mm	2,695	2,750	2,850	3,286	3,700
	inch	106.1	108.3	112.2	129.4	145.7
Overall width,W	mm	634	560	587	615	1,730
	inch	25	22.1	23.1	24.2	68.1
Overall height with	mm	3,220	3,245	4,018	4,100	4,253
sheet pile clamp	inch	126.8	127.8	158	161.4	167.4
Weight with sheet pile clamp	kg	7,150	7,600	11,000	14,800	29,000
	Ibs	15,763	16,755	24,251	32,328	63,934

	МС	DDEL	160U	180U	240U	320U	2x240U
Sheet pile clamp	Force	tons kN	160 1,600	180 1,800	240 2,400	320 3,200	480 4,800
ciump	Weight	kg Ibs	1,190 2,624	1,200 2,646	2,000 4,409	2,500 5,516	4,000 8,818
	MODEL		2x80D	2x120D	2x140D	2x160D	4x160D
Double clamp (Casing pile	Force	tons kN	160 1,600	240 2,400	280 2,800	320 3,200	640 6,400
clamp)	Weight with Beam	kg Ibs	1,484 3,272	2,480 5,468	2,700 6,085	3,000 6,614	7,000 15,432
Suitable Powe	r Pack Serie	S	PQ-500V	PQ-600V	PQ-800V	PQ-1000V	PQ-1600V

* Quad clamp with cross beam for larger casing pile diameter is available as optional on request. * Subject to modifications without prior notice.

PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

BRUCE UNIVERSAL & SHEET PILE CLAMP

SELECTION OF UNIVERSAL & SHEET PILE CLAMP

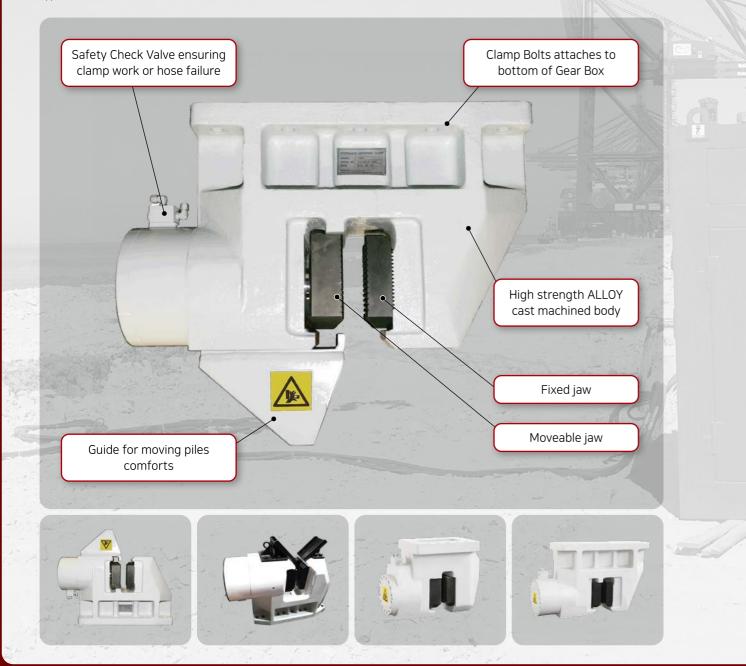
60U

160U

The BRUCE Universal & Sheet Pile Clamp comes with a standard sheet pile clamp attachment. The clamp contains two gripping jaws. One is "fixed" and the other is "moveable". A large cylinder operates the moveable jaw depends on clamp pump relief pressure.

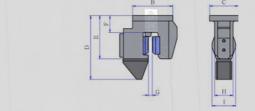
The jaws open and close by turning a switch on the remote control pendant, or may be operated by turning the switch at the main control panel mounted on power pack. The pressure hole at cylinder cover can be tested for a proper pressure 320 to 350 bars.

The BRUCE standard pile clamp can be fitted with jaws to fit many different types of piles including sheet piles, H-Beams, steel plates, and pipe piles. (Contact BRUCE for more information on clamp attachments for special pile types.)



Clamp type		Universal & sheet pile								
Clamping force ton/kN		60/600	80/800	100/1000	130/1300					
Working pre	Working pressure bar/psi 3.		320/4641	320/4641	320/4641					
Weight	Neight kg / lbs 250/551		480/1058	500/1102	630/1389					
LXWXH	X W X H mm 590 X 300 X 380		685 X 340 X 705	685 X 340 X 705	730 X 340 X 750					

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Clamp type			Universal &	sheet pile	
Clamping fo	rce ton/kN	160/1600	180/1800	240/2400	320/3200
Working pres	ssure bar/psi	320/4641	320/4641	320/4641	320/4641
Weight	kg / lbs	1190/2624	1200/2646	2000/4409	2500/5516
LXWXH	mm	1140 X 350 X 1045	1140 X 350 X 1045	1160 X 350 X 1045	1100 X 460 X 1097

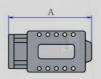


	Clamp model	Clamping force	Operating pressure	Weight	А	В	С	D	E	F	G	н	I
	60U	60 ton	320 bar	250 kg	590	470	310	380	388	150	0~40	310	300
	80U	80 ton	320 bar	480 kg	685	480	340	705	515	200	0~45	310	340
	100U	100 ton	320 bar	500 kg	685	480	340	705	515	200	0~45	310	340
	130U	130 ton	320 bar	630 kg	730	480	340	750	580	215	0~45	340	240
	160U	160 ton	320 bar	1,190 kg	1140	935	305	1045	668	319	0~50	305	350
-	180U	180 ton	320 bar	1,200 kg	1140	935	305	1045	668	319	0~50	305	350
	240U	240 ton	320 bar	2,000 kg	1160	940	305	1045	790	420	0~60	305	350
-	320U	320 ton	320 bar	2,500 kg	1172	1100	460	1097	870	415	0~62	400	460
* (·	difficant in a contain	out prior potio	1997						Area and	and an	1	· · · · · ·

* Subject to modifications without prior notice.



180U 240U 320U



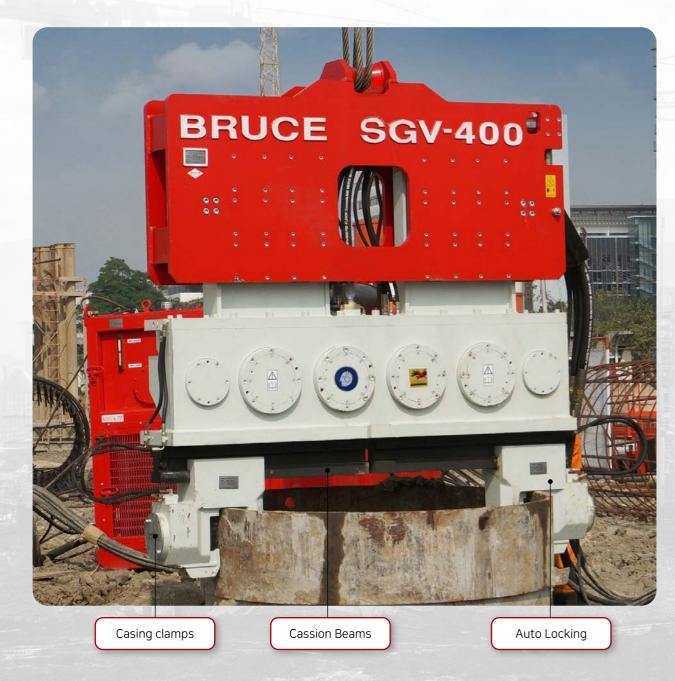


PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

BRUCE CASING PILE CLAMP WITH AUTO LOCKING SYSTEM

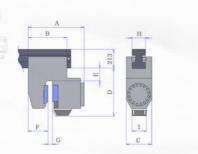
All the Bruce vibro hammers are designed for Casing Pile Clamps to be able to quick mounted on the bottom of the gear box of Vibro hammers with a conjunction hydraulic Auto Locking system so that it can be applicable at all times for a quick change according to different pile size or maintenance piling works in case of casing piles.

The BRUCE Casing pile clamp can simply adjust the clamping span that is thought to be hassle and burdensome for most of foremen on site with the help of hydraulic auto locking system adopted on both sides of beams based on casing pile size. It can be adjusted either by narrowing or expending the both clamps whenever needed for fitting in. BRUCE Casing pile clamp will give you a plenty time saving for the job resulting in super profitability.



PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

BRUCE CASING PILE CLAMP WITH BEAMS





Clamp model	Clamping force	Operating pressure	Weight	A	В	С	D	E	F	G	Н	I
40D	40 ton	320 bar	310 kg	520	400	250	510	105	160	0-30	130	160
80D	80 ton	320 bar	480 kg	635	440	280	535	145	225	0-50	150	160
120D	120 ton	320 bar	955 kg	700	569	340	651	150	272	0-55	150	190
140D	140 ton	320 bar	1100 kg	825	630	300	700	185	295	0-55	160	210
160D	160 ton	320 bar	1250 kg	895	695	375	720	195	345	0-55	160	230

	-	A	145
B min.		B max.	

Clamp model	А	Bmin	Bmax	С	D	E	F	Weight
	1520	450	1070	635	280	670	274	1220 kg
	2216	450	1696	635	280	670	274	1408 kg
2x80D	2400	450	1840	635	280	670	274	1420 kg
	2660	450	2140	635	280	670	274	1562 kg
	3400	450	2950	635	280	670	274	2810 kg
2x120D	2700	545	1747	630	290	803	285	1606 kg
ZXTZUD	3000	545	2055	630	290	803	285	2550 kg
2X140D	2800	590	2130	825	300	883	335	2800 kg
281400	3400	700	2700	825	300	883	335	3000 kg
2X160D	3400	700	2700	885	330	972	445	3000 kg
271000	3800	700	2700	885	330	972	445	3500 kg

* Subject to modifications without prior notice.













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BRUCE **HYDRAULIC POWER PACK**

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BRUCE **HYDRAULIC POWER PACK**

The BRUCE power packs have designed and manufactured to optimize the hydraulic system for a constant stability of piling performance with high efficiency of BRUCE Vibro operations.

A sound proofed frame style with heavy steel enclosure and enough space of inside layout enables to obtain an easy access for quick maintenance and ensures durability of power pack.

Maximum efficiency and reliability ensured by BRUCE efficient open-loop hydraulic system equipped with reputable quality hydraulic pump and motor.

High cooling capacity of hydraulic system provides a stable high efficiency of hydraulic systems together with larger sized radiator, cooler and hydraulic tank ensures no overheat problems.

Full Line Up : Horse power ranging from 100PS to 1600PS for a wide selection of BRUCE Vibro hammer range and required capacity from small sized to large sized power packs

BRUCE power pack is adoptable Environmentally friendly non-toxic & biodegradable hydraulic oil.







TURBOCHARGED HIGH POWER DIESEL ENGINE

Bruce power pack powered by Doosan or Cummins turbocharged diesel engine as standard ensures greater production by having higher horse power and torque ratings. The engine has functioning of electronic & computer controls reduce fuel consumption and optimizing the engine power.

HIGH PERFORMANCE SWASH PLATE TYPE PUMP

Adopted with axial piston type pump and quality brand pump. Flows are controlled electrically - Optional

HIGH COOLING CAPACITY & WIDE INTERNAL SPACE

Applied with high cooling capacity with larger sized radiator, oil cooler and hydraulic tank, Bruce power pack can be used under high atmospheric temperature up to 40°C or little higher and cold regional area up to -30°C and even lower temperature.

BIODEGRADABLE HYDRAULIC OIL ADAPTABLE

All hydraulic components are 100% applicable to biodegradable oil in order to meet environmental concern.

RELIABLE & GOOD FILTRATION

Equipped with high capacity filters and quality brand filters prevent hydraulic oil contamination and ensure filtration system for hydraulic and engine fuel system.

HYDRAULIC COMPACT & CONTROL SYSTEM BLOCK

Most of valve system and components are equipped and built-in Manifold block which is beneficial for easy to check, control the system and supply accurate system flow and pressure to the machine.

REMOTE CONTROL PENDANT

With a BRUCE Remote Control Pendant, the operators can have it operating the Vibro operation in a long way even from a distance. It comes with functioning of emergency stop, clamp operation, Vibrating operation and engine frequency adjustment depends on soil conditions.

Main Function

- · Start and stop vibration in a few seconds
- · Clamp and unclamp from piles.
- · Accomplishment of vibration in forward direction
- · Emergency stop button for an urgent situation
- · Frequency Adjust
- Easy cable connections adopted
- Very light and easy portability
- Built and designed for customized size
- LED lamp for clamping indication
- Simplicitty design for easy control with less faualty

POWER PACK CONTROL PANEL

SIMPILICITY DESIGN OF CONTROL PANNEL

With user friendly simple design concept but well equipped functions in the control panel is provided easy electrical operational system and hydraulic system. The variety functioning and utilize are provided as below.

- Electronic engine control unit
- Vibrator frequency adjust
- Electronic engine governor Battery recharge & coolant temperature indicate
- Engine start & stop
- Main electric power ON/OFF switch Engine oil pressure indicate
- Circuit breaker for protection from short circuit and fault of electric system
- Engine speed lever for change the engine speed
- Pressure gauge for vibro, clamp, motor drain
- LED lamp for clamping indication LED lamp for MAIN POWER
- Engine speed indicate
- Operating hour indicate
- Fuel gauge
- Emergency stop button
- Engine temperature indicate



VIBRO/CLAMP operational switch



SPECIFICATION OF BRUCE POWER PACK

OEPRATING DATA

Power Pack Mo	del	PQ-200V	PQ-250V	PQ-350V	PQ-500V	PQ-600V	PQ-800V	PQ-1000V	PQ-1600V
	(HP)	180	230	320	475	525	650	1,000	1,600
Engine power	(kW)	132	172	239	354	392	485	746	1,193
Engine speed	(rpm)	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Setting	(bar)	320	320	320	320	320	320	320	320
pressure	(psi)	4,641	4,641	4,641	4,641	4,641	4,641	4,641	4,641
Max. flow rate	(lpm)	190	280	400	600	630	764	1,100	1,700
Max. NOW Tale	(gpm)	50	74	106	159	166	202	291	449
Hydraulic	(liter)	350	600	700	800	1,000	1,200	2,400	2,400
tank capacity	(gal)	93	159	185	211	264	317	634	634
Fuel tank	(liter)	300	500	520	600	800	900	960	2,000
capacity	(gal)	79	132	137	159	211	238	254	528

The Doosan engine is as standard and the Cummins engine is as optional.

DIMENSION

Ove	erall	(mm)	2,500	2,900	3,300	3,500	3,500	3,800	3,800	5,500	R
len	gth	(ft)	8.2	9.5	10.8	11.5	11.5	12.6	12.6	18	11
Ove	erall	(mm)	1,300	1,600	1,600	1,800	1,800	2,000	2,200	2,500	
wid	lth	(ft)	4.3	5.3	5.3	5.9	5.9	6.7	7.2	8.2	- he
0.40	erall height	(mm)	1,850	2,100	2,100	2,100	2,200	2,200	2,200	2,700	
Ove	an neight	(ft)	6.1	6.9	6.9	6.9	7.2	7.2	7.2	8.9	

WEIGHT

Dru	(kg)	3,700	4,000	4,300	4,700	4,900	6,200	8,000	14,000
Dry	(lbs)	8,157	8,819	9,480	10,362	10,803	13,669	17,637	30,865
	(kg)	4,100	4,400	5,400	5,800	6,600	8,200	10,000	17,000
Operating	(lbs)	9,039	9,700	11,905	12,787	14,551	18,078	22,046	37,479
Suitable Bruce vibro model		SGV-80	SGV-100	SGV-200 SGV-300	SGV-400	SGV-450	SGV-600	SGV-1000	SGV-2000

Others power pack size can be supplied upon request.* We reserve the right to make modifications without prior notice.

BRUCE VIBRO TECHNOLOGY

A vibratory hammer is a specialized piece of equipment that uses vibration to change the soil formations so that the vibratory hammer can drive in the pile using its own weight.

A vibratory hammer makes quick work of hammering into heavy or hard piles, and allows for an increase of efficiency on the worksite. Vibratory hammers are used to drive in piles as well remove them.

There are two components to a vibratory hammer, the gear box and the suppressor. The gear box contains eccentric weights that rotate around the case, creating a vibration. The eccentric weights are set in motion and maintain their synchronicity with a hydraulic motor attached to the gear box. A clamp attached to the bottom of the gear box transports the vibration into the pile.

The vibratory hammer is placed over the pile with the help of a piece of large equipment, such as a crane or excavator. The vibratory hammer is then attached to the pile through a series of clamps. A separate trailer containing hydraulic fluid is attached to the hammer. If the vibratory hammer is put in place with an excavator, the hammer can run off the excavator's power source.

Vibratory hammers are effective in a variety of different types of soil, including clay, sand, and granular. Vibratory hammers can also be modified for use underwater. Vibratory hammers are very large and used in the industrial setting. They are commonly used to drive and extract piles for such projects as ports, building, highway construction and others huge application of sheet pile or casing pile driving and extracting.

There are many benefits to the use of vibratory hammers. A vibratory hammer requires less force to drive a pile. Compared to other hammers that would be used in the same situation, vibratory hammers are relatively quiet. Vibratory hammers are often chosen when piling & construction work is conducted in an urban area where the noise of a traditional pile hammer would be a problem. Vibratory hammers also make a good choice when the pile is located in an area without sufficient clearance to accommodate a traditional pile driver.

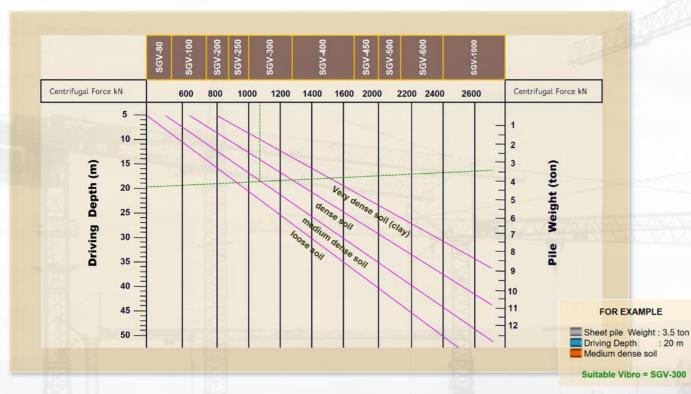
Simply the Bruce vibratory hammers consist of several major parts in the gear box, each eccentric pair turns at the same angular velocity but in opposite directions, producing a vertical vibration. Both eccentrics generate centrifugal forces fc. The horizontal components fh are offset at the same time that the vertical components fv are added, resulting in centrifugal force Fc. A yoke is located above the gearbox and prevents the transmission of vibrations through elastomer rubber.



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PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

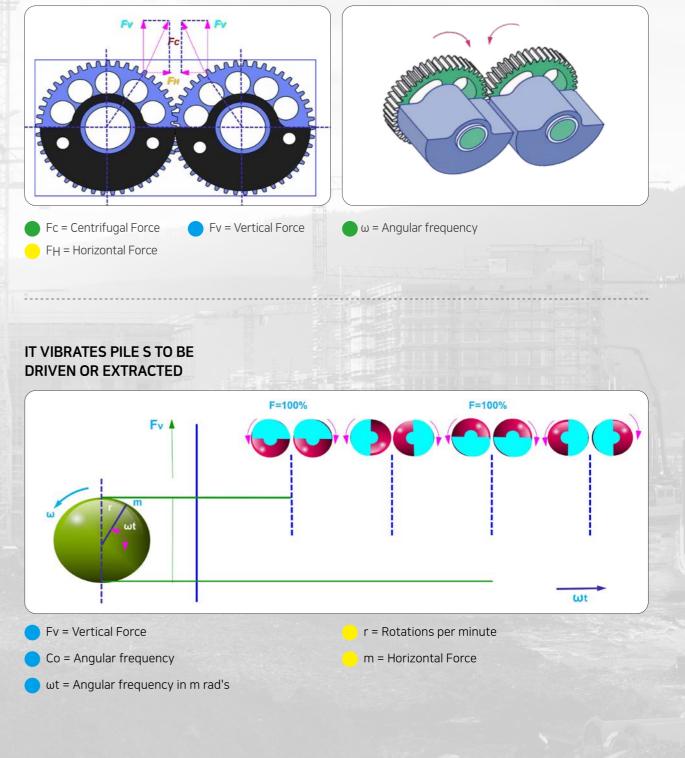
SELECTING THE OPTIMUM **BRUCE VIBRO HAMMERS** WITH SELECTION CHART

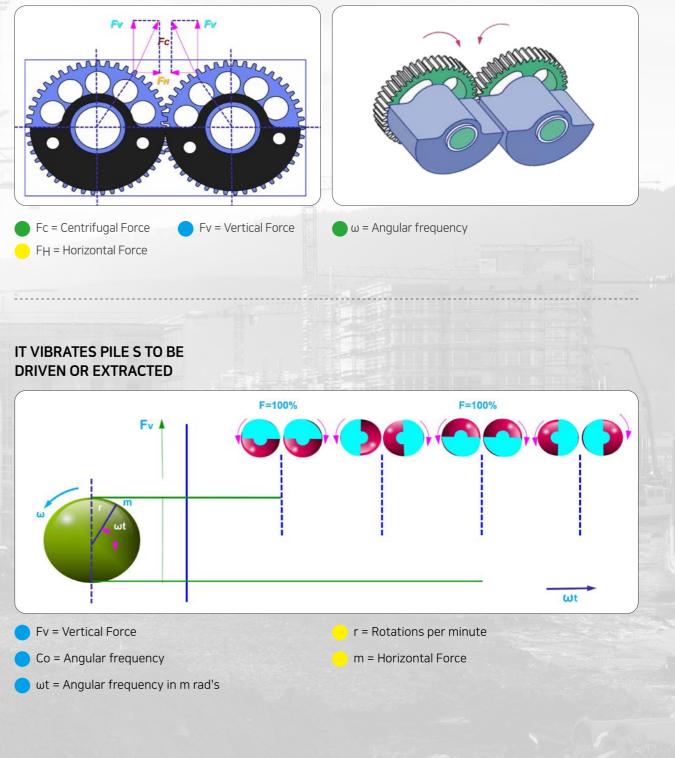




PILE DRIVING & EXTRACTING VIBRATORY MACHINERY

ADJUSTMENT WITH SWIVELLING OF THE E CCENTRICS.





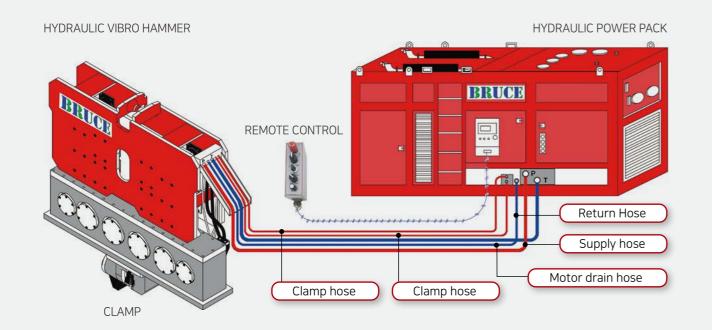


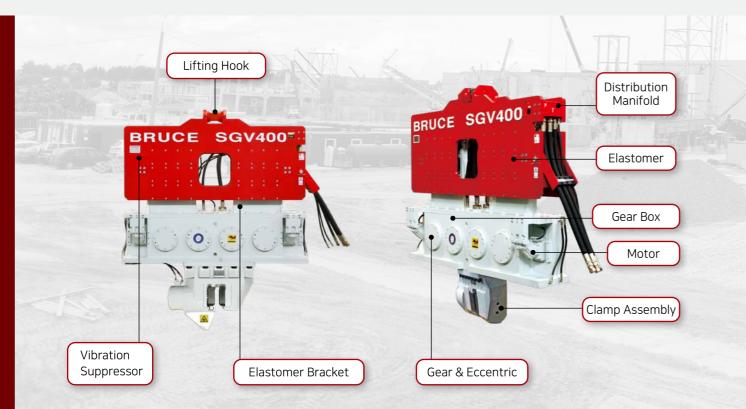
HOW DOES VIBRO HAMMER WORKS ?

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OPERATING STRUCTURE OF CRANE SUSPENDED VIBRATORY HAMMER

OPERATING STRUCTURE OF CRANE SUSPENDED TYPE





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SHINSEGAE POWEROUIP 26



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