

PILE DRIVING & EXTRACTING

BRUCE EXCAVATOR MOUNTED VIBRO HAMMER

BRUCE VIBRO HAMMERS
EXCAVATOR MOUNTED TYPE

BRUCE INITIATIVE WORLDWIDE VIBRATORY TECH.







SHINSEGAE POWERQUIP INDUSTRIAL CO., LTD.

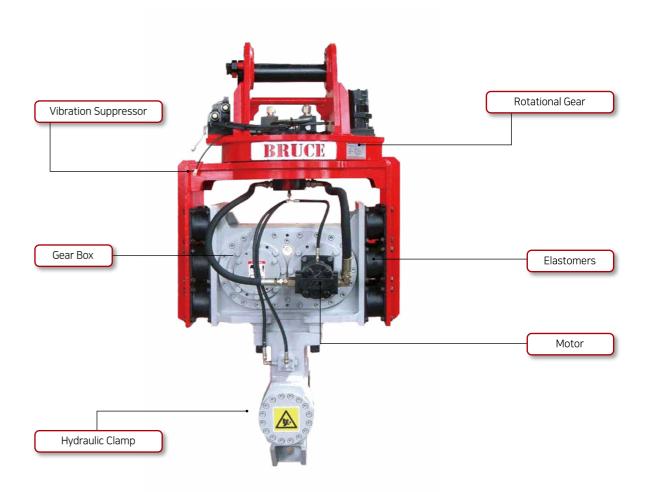
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OUTSTANDING FEATURES OF BRUCE EXCAVATOR MOUNTED VIBRO HAMMER

ROTATIONAL GEAR

It has been built with a rotational gear device that allows the equipment to rotate 360° by hydraulically for the ease of pile positioning.

VIBRATION SUPPRESSOR

This is the part of the Vibrator coupled to the boom. It's connected to the Gear Housing using Elastomers that allows a traction during extractions.

HYDRAULIC CLAMP

Clamp cylinders are made from solid blocks to eliminate troublesome guards and tie-rods. It's well suited for most type of sheet piling job.

ELASTOMER RUBBERS

The qualified Elastomers are selected for Dynamic part that creates environmentally low noises and are substantially tough enough to sustain the power of heavy extraction during operations which could result in quite a lot of vibration isolation can be provided for equipment and personal safety.

GEAR HOUSING

It consists of the group of Eccentric Bodies where the Eccentric Weights are assembled with hydraulic motors used for transmitting the motion to the Weights.



Do not make any efforts to adjust equipment to the desired piling work. It's able to locate sheet piles easily at the exact sequence of pile sections!

Rotational Gear Box & Suppressor that allows them to rotate 360° hydraulically for easy pile positioning !

Rotational Gear device is the most profitable pile driving work!

It locates the sheet piles exactly and easily at the desired sequence of pile sections and ensuring that piles will quickly interlock.

ADVANTAGES OF BRUCE'S BEING FASTIDIOUS ABOUT ELASTOMERS FOR HEAVY EXTRACTION PILE DRIVING JOB

Proven high qualified Elastomer Rubbers are selected to sustain the power of heavy extraction pile job



Our experience in using Long lasting qualified Elastomer Rubbers create no failure mode like tear and sheard in Pieces while in operations.

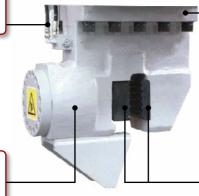
We choose high qualified Elastomer Rubbers

That provide a minimum of plenty vibration isolation for the equipment and personal safety.



ADVANTAGES OF BRUCE'S HIGH STRENGTH ALLOY STEEL OF CLAMP FOR DURABILITY AND CHANGEABLE JAWS

Internal clamp is protected by Check Valve from hose damage occurrences



Clamp fixing positioning Bolts are standardized to set up other Clamps like Casing or Pipe pile Clamp.

Clamp Cylinder is machined from
Cast-Iron to eliminate troublesome and slides to support heavy loads.

Changeable jaws are made of high durability of Alloy Steel. It cuts the time need for repairs.

All our clamps delivers the highest level of productivity

Operators on site will be satisfied with our changeable high strength alloy steel jaws in terms of timely replacing them.

BRUCE SUPPLIES A VARIETY OF EXCAVATOR MOUNTED VIBROS FOR MULTIFUL APPLICATION OF PILE JOB

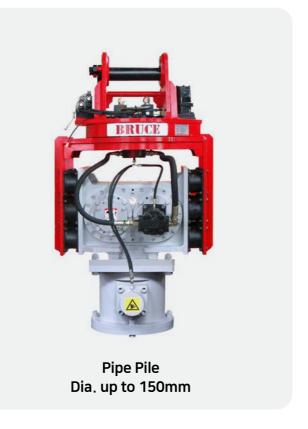




Vibro with Double Clamp with Beam



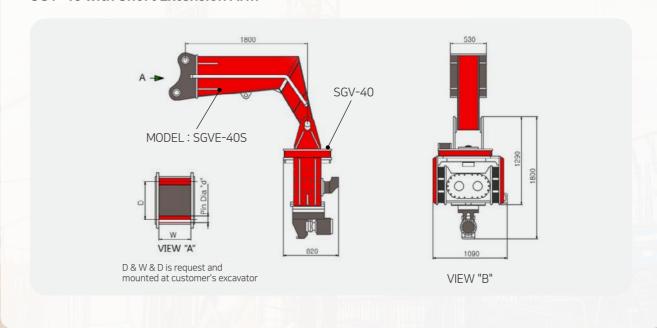
Vibro with Pipe Pile Clamp



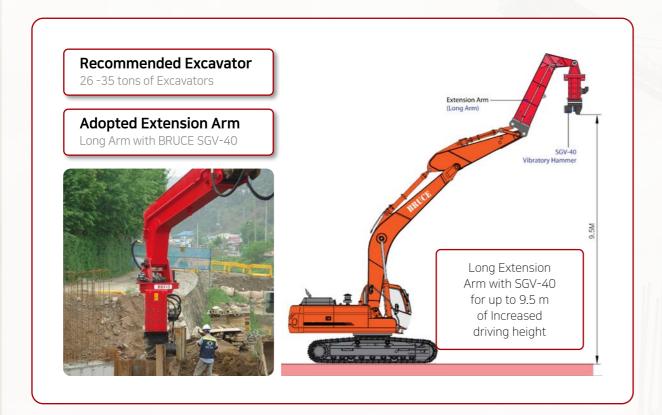
ADVANTAGES OF BRUCE'S A VARIETY OF SHORT EXTENSION ARM WITH SGV-40 FOR EXTRA DRIVING HEIGHT



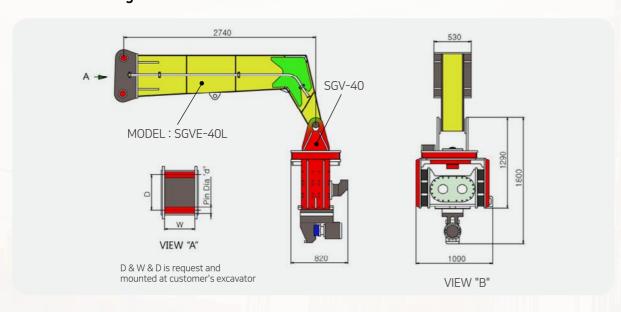
SGV-40 with Short Extension Arm



ADVANTAGES OF BRUCE'S A VARIETY OF LONG EXTENSION ARM WITH SGV-40 FOR EXTRA DRIVING HEIGHT



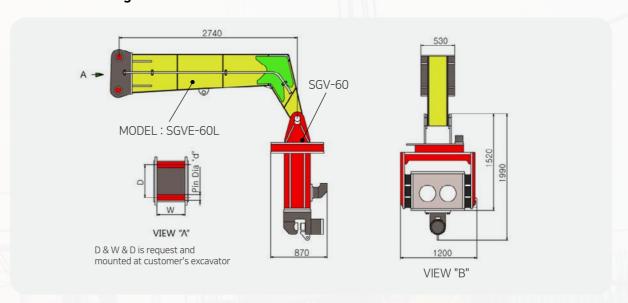
SGV-40 with Long Extension Arm

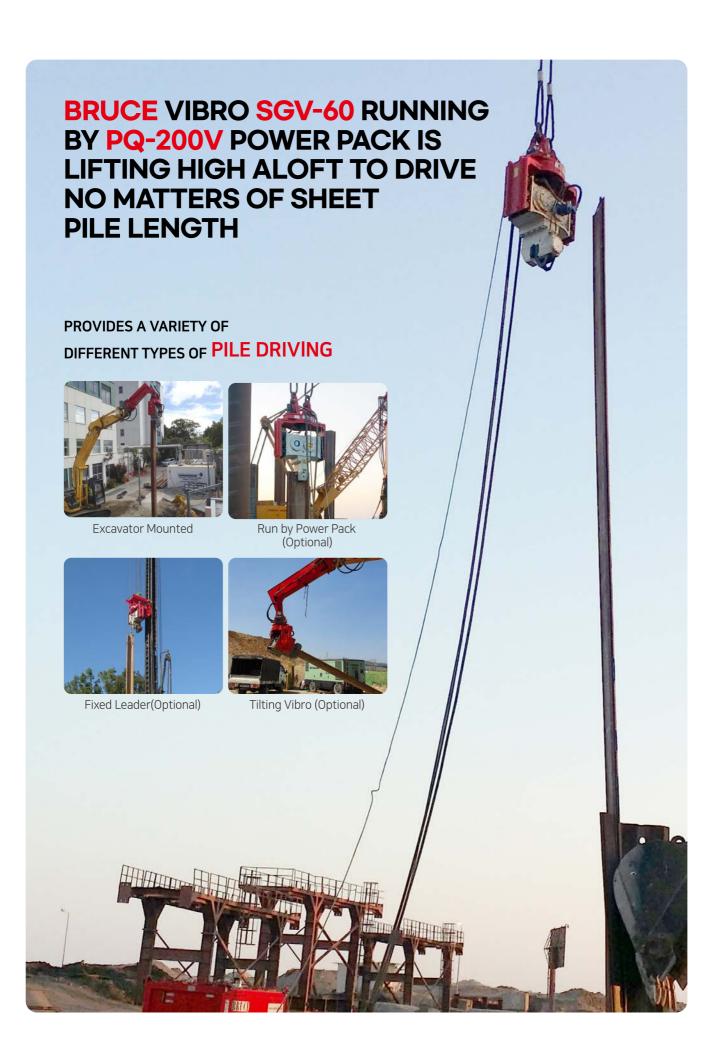


ADVANTAGES OF BRUCE'S A VARIETY OF LONG EXTENSION ARM WITH SGV-60 FOR EXTRA DRIVING HEIGHT



SGV-60 with Long Extension Arm







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BRUCE TILTING VIBRO HAMMER

EXCAVATOR MOUNTED









Tilt & Grab & Drag the pile

Lift the pile

Drive the pile

HYDRAULIC TILTING TYPE

Easy Pile angle control is able by the powerful wheel drive type mechanism hydraulically

EFFECTIVE PILING DURABILITY

High performance Piling works are achieved by its durable inside mechanism comparing others.

TIME SAVINGS FOR PILES HANDLING

No more extra manpower is needed and the most effective Piles handling can be achieved pile grab by 90° Tilting and 360° Rotation.

SUITABLE VIBRO MODELS

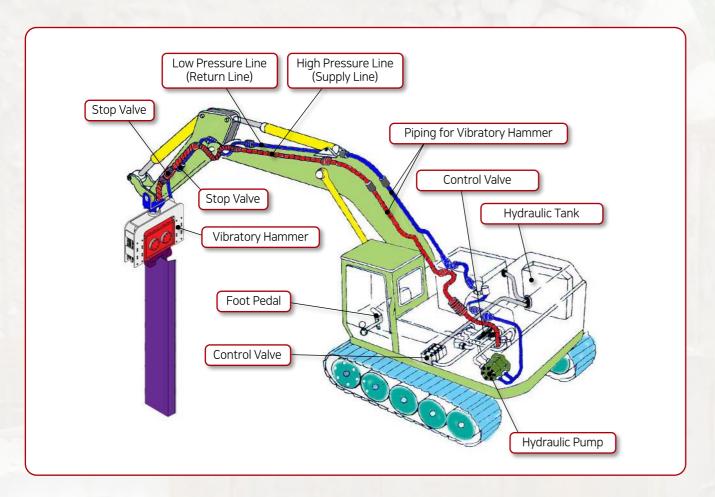
SGV-40T / SGV-60T / SGV-80T or upon request by customer demand

BRUCE TILTING VIBRO RANGES

BRUCE Tilting Vibros can be mounted on the Excavator ranging from 20 tons to be sizes Excavator up to 50 tons.



DESCRIPTION OF OPERATIONAL PIPNG LINES MOUNTED ON THE EXCAVATOR



Excavator Mounted Vibro Hammer

Model SGV-40, SGV-40T, SGV-60, SGV-60T & SGV-80E with a Rotational Gear, Swiveling around 360 degree by hydraulic movement.

- · Optional purchase of Extension Arm is available for extra driving height and increased range of movement depends on operating condition.
- Piping Kit is included item Stop Valve, Low Pressure Line, High Pressure Line, Piping for Vibratory Hammer & Fitting Nipples.

BRUCE EXCAVATOR MOUNTED VIBRO HAMMER ON SITE







BRUCE VIBRO SPECIFICATION







BRUCE





Double Clamp

OPERATING DATA

VIBRO SERIES	UNIT	SGV-40	SGV-40T	SGV-60	SGV-60T	SGV-80E
- 1	Note : SGV-40 / S0	GV-40T / SGV-60 /	SGV-60T / SGV-8	OE can be mounte	d on the excavator	7.
Eccentric	(Nm)	65	65	75	75	128
Moment	(in.lbs)	573	573	660	660	1,128
	(kg.m)	6.6	6.6	7.6	7.6	13
Centrifugal Force	(tons)	80	80	93	91	138
	(kN)	797	797	927	910	1,375
Max. Frequency	(vpm)	3,300	3,300	3,300	3,300	3,100
Max Amplitude	(inch)	0.55	0.55	0.6	0.55	0.83
	(mm)	14	14	15	14	21
Pile Clamp Force	(kN)	598	598	598	598	785
	(tons)	60	60	60	60	80
Max. Crane Pull	(kN)	200	200	200	200	300
	(tons)	20	20	20	20	30
Required Oil Flow	(lpm)	210	235	280	290	350
Max. Hydraulic Power	(kW)	98	110	130	135	163
	(HP)	131	146	174	180	218

[·] The operating pressure is 180-230 bar

DIMENSION & WEIGHT

DIVILIAZION & WEIGHT						
VIBRO SERIES	UNIT	SGV-40	SGV-40T	SGV-60	SGV-60T	SGV-80E
Note : SGV	-40 / SGV-4	40T / SGV-60 / SG	SV-60T / SGV-80E	can be mounted	on the excavator.	
Overall Length	(mm) (inch)	1090 42.9	1385 54.5	1230 48.4	1476 58.1	1590 62.6
Overall width	(mm) (inch)	777 30.6	775 30.5	750 29.5	791 31.1	778 31
Overall Height	(mm) (inch)	1815 71.5	1990 78.3	2200 86.7	2260 89	2255 88.8
Weight of Sheet Pile Clamp	(kg) (lbs)	230 507	230 507	230 507	230 507	230 507
Weight of Pipe Pile Clamp	(kg) (lbs)	342 754	342 754	342 754	342 754	342 754
Pipe Pile Size	(in/mm)	6/152.4	6/152.4	6/152.4	6/152.4	6/152.4
Total Weight with Sheet Pile Clamp	(kg) (lbs)	1660 3660	1850 4079	1920 4233	2100 4652	2100 4652
Suitable Excavator		20-30 ton	20-30 ton	32-40 ton	32-40 ton	40-50 ton
Suitable Power Pack		PQ-200V	PQ-200V	PQ-200V	PQ-200V	PQ-250V
Occasional I I a in latin disease for		alama.	T Description			

[·] Overall Height indicates for a sheet pile clamp.

 $[\]cdot$ The SGV-40T, SGV-60T (Tilting) is 90° Tilting is as optional type hydraulically

[·] Due to constant developments and improvements, we reserve the right to make changes without prior notice.

[•]The maximum casing pile size is up to dia. 400 mm, Ask to us! (Double clamp is as optional)

[•]The data, values and measurements are based on current models and values at the time our information was complied.

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POWER PACK FOR EXCAVATOR MOUNT VIBRO HAMMER INTO THE CRANE SUSPENDED TYPE MODEL PQ-200V & PQ-250V



Not only the small sized hydraulic pile hammer and also Excavator Mounted Vibro hammer Model SGV-40, SGV-40T, SGV-60T & SGV-80E are provided by the BRUCE PQ series of power pack with a high qualified hydraulic power supply system enhancing the increased cooling capacity for the constant job performance.

- · High performance and efficient hydraulic system and heavy-duty structure for serviceability & reliability
- · BRUCE unique and compact designed Relief Block and control system for minimizing power loss and hydraulic fault
- · Fully equipped Control Panel with automatic shutdown to protect critical components
- · Reliable Doosan diesel engine as standard with powerful power rating & cooling capacity
- · Remote Control Box includes functioning of clamp operation, vibro operation, rotation, tilting and emergency stop.
- · Adaptable with environmentally friendly biodegradable hydraulic oil

POWER PACK FOR EXCAVATOR MOUNT VIBRO HAMMER SPECIFICATION OF POWER PACK

PQ-200V & PQ-250V

OPERATING DATA

BRUCE POWER PACK SERIES	UNIT	PQ-200V	PQ-250V
Engine Maker	Maker	DOOSAN *1	D00SAN *1
Engine Power	(HP/kW)	154HP/115kW @1800 rpm	230HP/172kW @1800 rpm
Setting Pressure	(bar/psi)	300/4352	300/4352
Rated Flow Rate Hydraulic	(Ipm/gpm)	200/53	325/86
Hydraulic Oil Tank Capacity	(liter/gal)	350/93	600/159
Fuel Tank Capacity	(liter/gal)	300/79	500/132



Unique Design

DIMENSIONS

Overall Length	(mm/ft)	2500/8.20	2900/9.51
Overall Width	(mm/ft)	1300/4.27	1600/5.25
Overall Height	(bar/psi)	1850/6.07	2100/6.89

Turbo Charged Diesel Engine

WEIGHT

Dry	(kg/lbs)	3500/7716	3800/8378
Operating	(kg/lbs)	4000/8819	4400/9700

SUITABILITY

Suitable BRUCE Vibro Hammer	SGV-40/SGV-40T/SGV-60/SGV-60T	SGV-80E

NOTE: *1 Cummins Engine is as optional.

- · The data, values and measurements are based on current models and values at the time our information was complied.
- Due to constant developments and improvements, we reserve the right to make changes without prior notice.

Quality Hydraulic Pump

> Reliable Fiteration

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OPERATIONAL DIAGRAM OF BRUCE POWER PACK

USE INTO THE CRANE SUSPENDED TYPE

- COMBINATION OF MODEL

VIBRO SGV-40 + POWER PACK PQ-200V VIBRO SGV-60 + POWER PACK PQ-200V VIBRO SGV-80E + POWER PACK PQ-250V

