

**SPS ENG
CONSTRUCTION**



VIBRO HAMMER & RIPPER

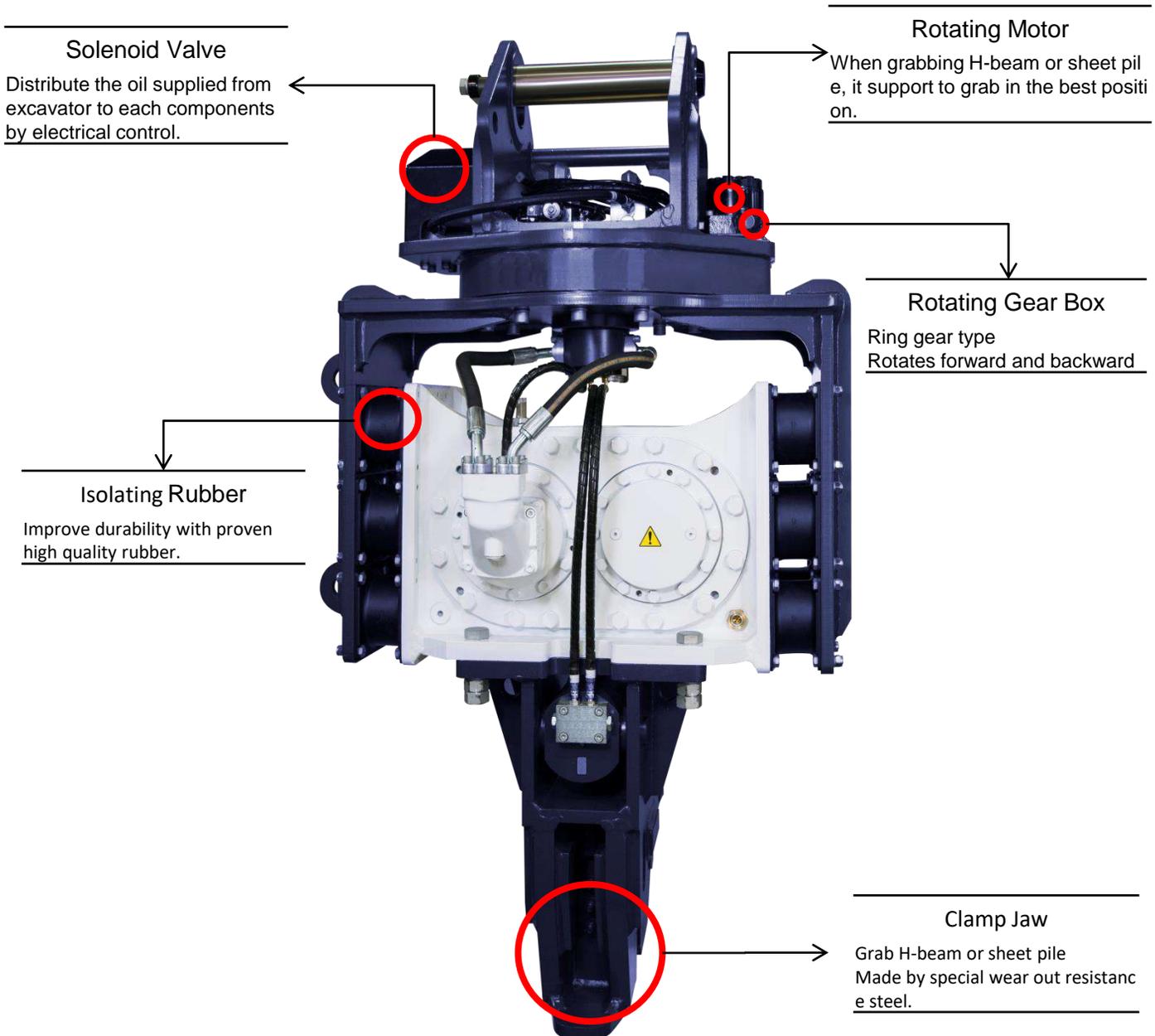
SPS ENG

VIBRO HAMMER

STANDARD TYPE

Features

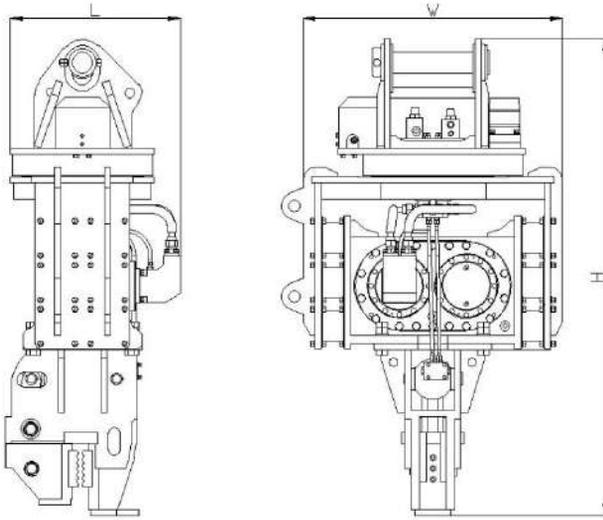
- Lower cost of maintenance than crane hammer.
- Superior mobility at narrow space work environment.
- Easier operate in critical regions such as chaotic section of city, bridge and vicinity of high-voltage wires than crane hammer does.
- Equipped with high-powered hydraulic piston motor and suitable bearing for high frequency vibration.
- Proven high quality rubber absorbs vibrator.
- Easy connect and disconnect the hammer by the use of excavator's breaker hydraulic liens.
- The clamping lug can handle and move construction objects easily.
- Pile driving power 20% up compared to the existing equipments.
- Sufficient wear-resistant design and 360-degree revolution.



VIBRO HAMMER

STANDARD TYPE

Dimension



Specifications

			SVH 30S	SVH 40S	SVH 50S
Eccentric Moment		kg.m	6	10	16
Centrifugal Force		kN	640	1,000	1,500
Max Amplitude		mm	10	18	25
		inch	0.31	0.47	0.98
Max Frequency		rpm	2,700	2,700	2,700
Oil Flow		ℓ/m	170~210	180~220	200~250
Hydraulic Pressure		bar	200~250	250~300	270~320
		psi	2,900~3,600	3,600~4,350	3,910~4,640
Slewing		degree	360	360	360
Height(H)		mm	1,964	2,035	2,111
		inch	77	80	83
Length(L)		mm	729	729	805
		inch	29	29	31
Width(W)		mm	1,077	1,135	1,214
		inch	42	44	47
Weight		kg	1,690	1,800	1,950
		lbs	3,725	3,968	4,299
Application Excavator		ton	20~32	33~39	42~55

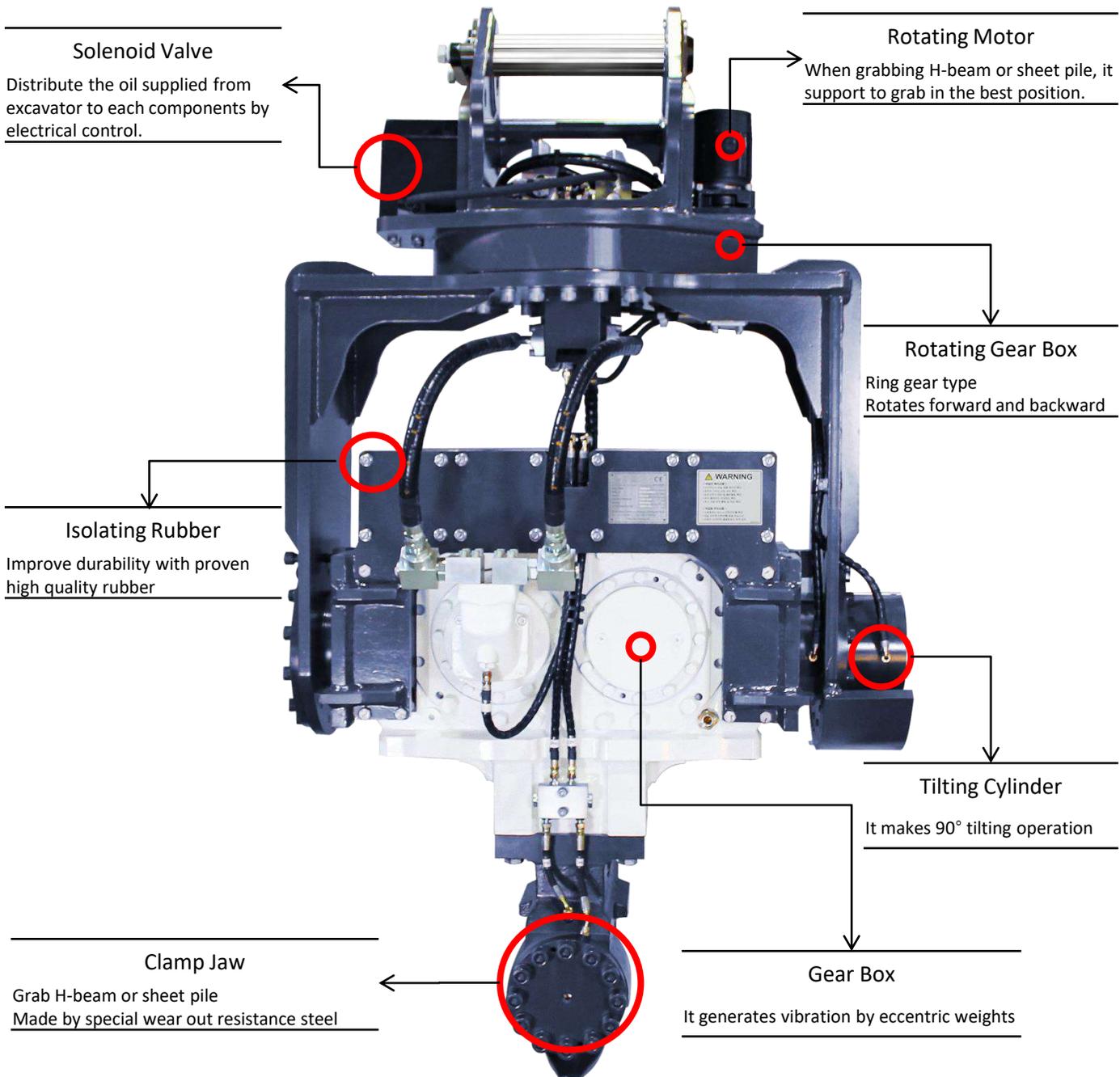
※ The above specifications are subject to change without prior notice for improvement.

VIBRO HAMMER

TILTING TYPE

Features

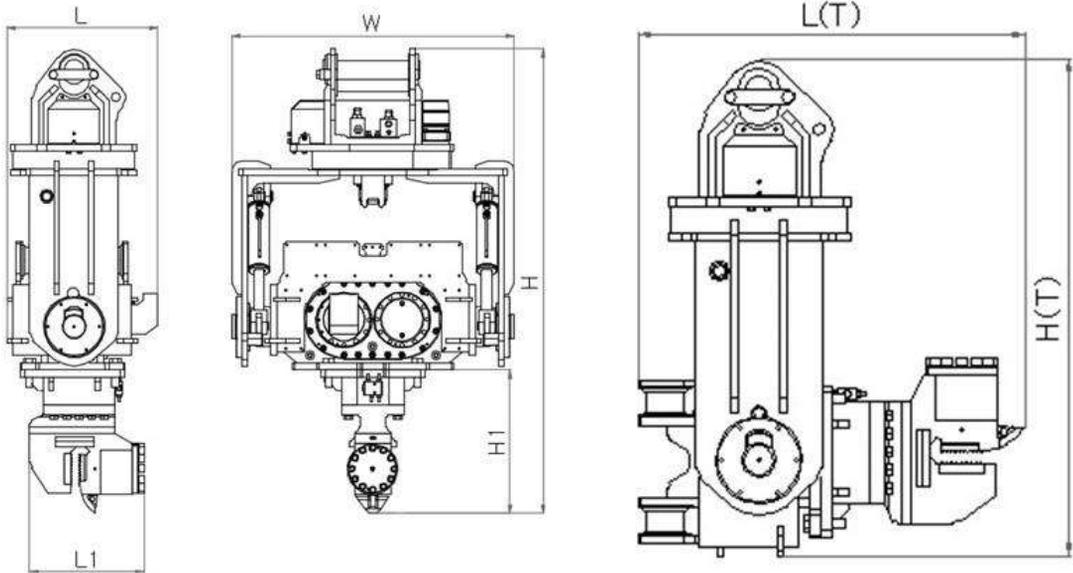
- 90° tilting refracting function to pick sheet pile and work immediately.
- ※ Improved operation efficiency compared to ordinary type.
- It has auto tilting function for easy grab an object laying down.
- Easy installation using existed pipe line of hydraulic breaker.
- 360° auto rotation function makes it easy to change direction when working with piles.
- Using tested high quality anti-vibration rubber, durability exceeds in strong vibration.
- Excellent performance without power pack.
- Powerful and slip-less clamping jaw.



VIBRO HAMMER

TILTING TYPE

Dimension



Specifications

			SVH 30T	SVH 40T	SVH 50T
Eccentric Moment	kg.m		6	10	16
	in.lbs		476	680	890
Centrifugal Force	kN		640	1,000	1,500
Amplitude	mm		8	15	22
	Inch		0.31	0.59	0.86
Max Frequency	rpm		2,700	2,700	2,700
Oil Flow	ℓ/m		170 ~ 210	180 ~ 220	200 ~ 250
Clamping Force(200bar)	ton		40	44	48
Hydraulic Pressure	bar		200~250	250~300	270~320
	psi		2,900 ~ 3,600	3,600~4,350	3,910~4,640
Slewing / Tilt Angle	degree		360 / 90	360 / 90	360 / 90
DIMENSION	Height(H)	mm	2,200	2,230	2,280
	Height(H1)	mm	680	680	680
	Length(L)	inch	720	770	810
	Length(LT)	mm	1,290	1,330	1,370
	Width(W)	mm	1,280	1,330	1,430
	Width(W2)	mm	245	245	245
	Clamp jaw(D)	mm	31	31	31
	Height(HT)	mm	1,650	1,660	1,665
	Weight	kg	2,090	2,200	2,320
Application Excavator	ton		20~32	33~39	42~55

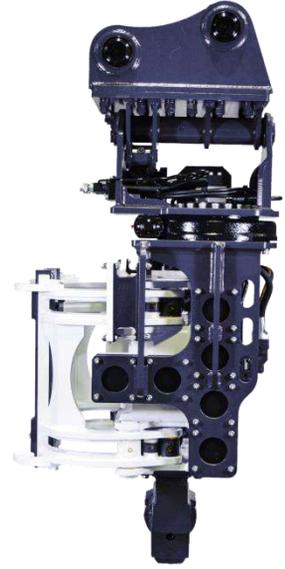
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VIBRO HAMMER

SIDE GRIP TYPE

Features

- NO LIMIT – Long sheet pile job available.
- Workable in narrow space.
- Easy to control by rotating and tilting operation system.



Tilting Cylinder
It makes 90° tilting operation.

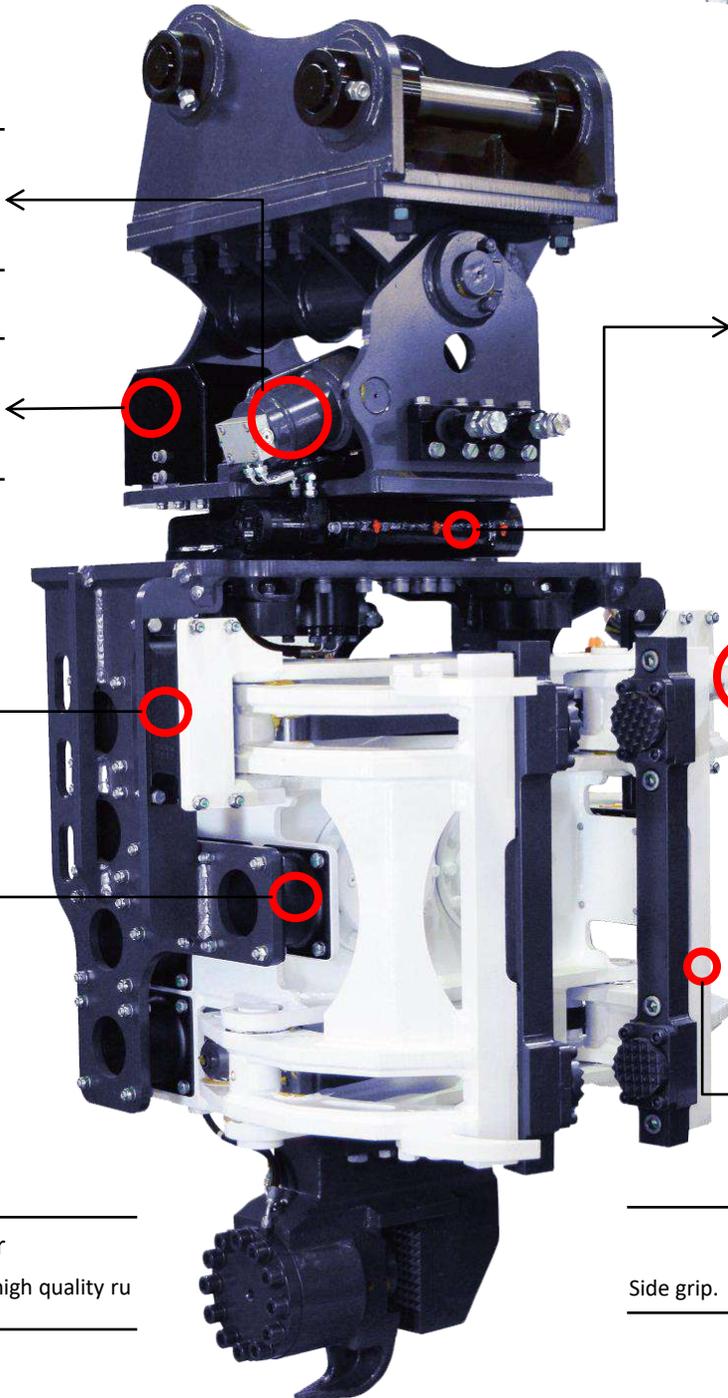
Solenoid Valve
Distribute the oil supplied from excavator to each components by electrical control.

Rotating Gear Box
Ring gear type
Rotates forward and backward

Hook
Hook for safety operation.

Isolating Rubber
Improve durability with proven high quality rubber.

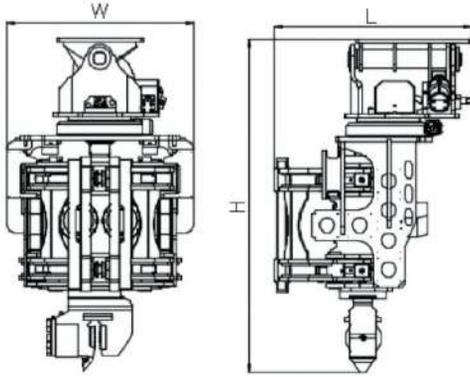
Side Grip
Side grip.



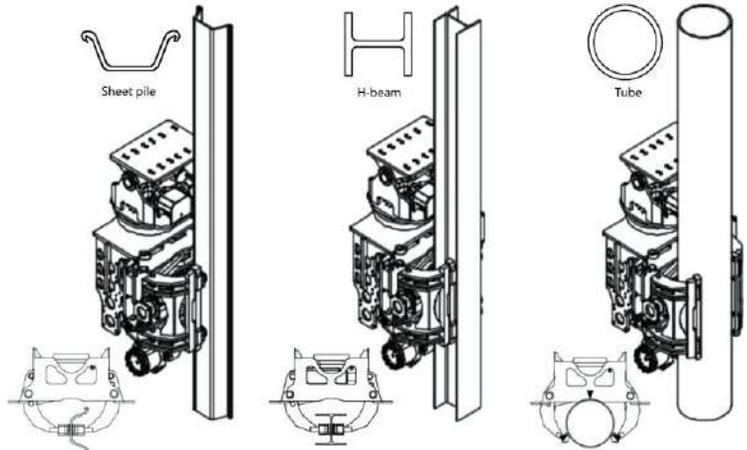
VIBRO HAMMER

SIDE GRIP TYPE

Dimension



Type & Dimension



Pile Size		Model	
length(M)	weight(kg)	20~32	33~48
6	2,800		SVH 40G
12	1,900		
16	1,300		
8	2,300	SVH 30G	
12	1,800		
16	1,200		

Sheet piles	width	400 ~ 1200 mm
	depth	270 mm
H-beam	size	H125 ~ H500
Tube	size	220 ~ 500 mm

Sheet pile width : 400 ~ 1200mm

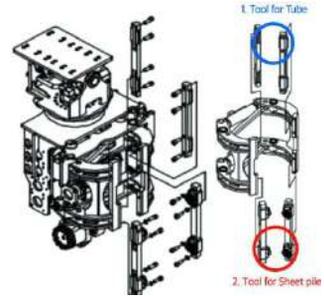
Specifications

SVH 30G

SVH 40G

Tool Exchange

Eccentric Moment	kg.m	6	10	
	in.lbs	476	680	
Centrifugal Force	kN	640	1,000	
Amplitude	mm	8	12	
	Inch	0.31	0.47	
Max. Frequency	rpm	2,700	2,700	
Oil Flow	ℓ/m	170 ~ 210	180 ~ 240	
Clamping Force(200bar)	ton	40	44	
Hydraulic Pressure	bar	200~250	250~300	
	psi	2,900 ~ 3,600	3,600 ~ 4,350	
Slewing / Tilt Angle	degree	360 / 35	360 / 35	
DIMENSION	Height(H)	mm	2,120	2,250
		inch	83	88
	Length(L)	mm	1,180	1,230
		inch	46	48
	Width(W)	mm	1,200	1,280
		inch	47	50
Weight(excl. mount)	kg	2,400	2,850	
Application Excavator	ton	20~32	33~48	



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VIBRO RIPPER

Features

- Minimum noise under 90db..
- High in productivity compared to traditional rock breaker.
- High fuel efficiency.
- Under water operation.
- Easy maintenance.
- Wear out resistant Tooth.
- Optimal design for easy maintenance.

Upper, Under Link

Connected with main body and housing, convert the vibration to vertical force.

Hydraulic Motor

Under the cover, There is motor for power supply.

Motor Cover

To improve the serviceability and protect the motor.

Housing

Protects main body and absorbs vibration.

Top Bracket

Connects excavator with Ripper.

Control Valve

Controls flow and pressure supplied from excavator.

IN, OUT Port

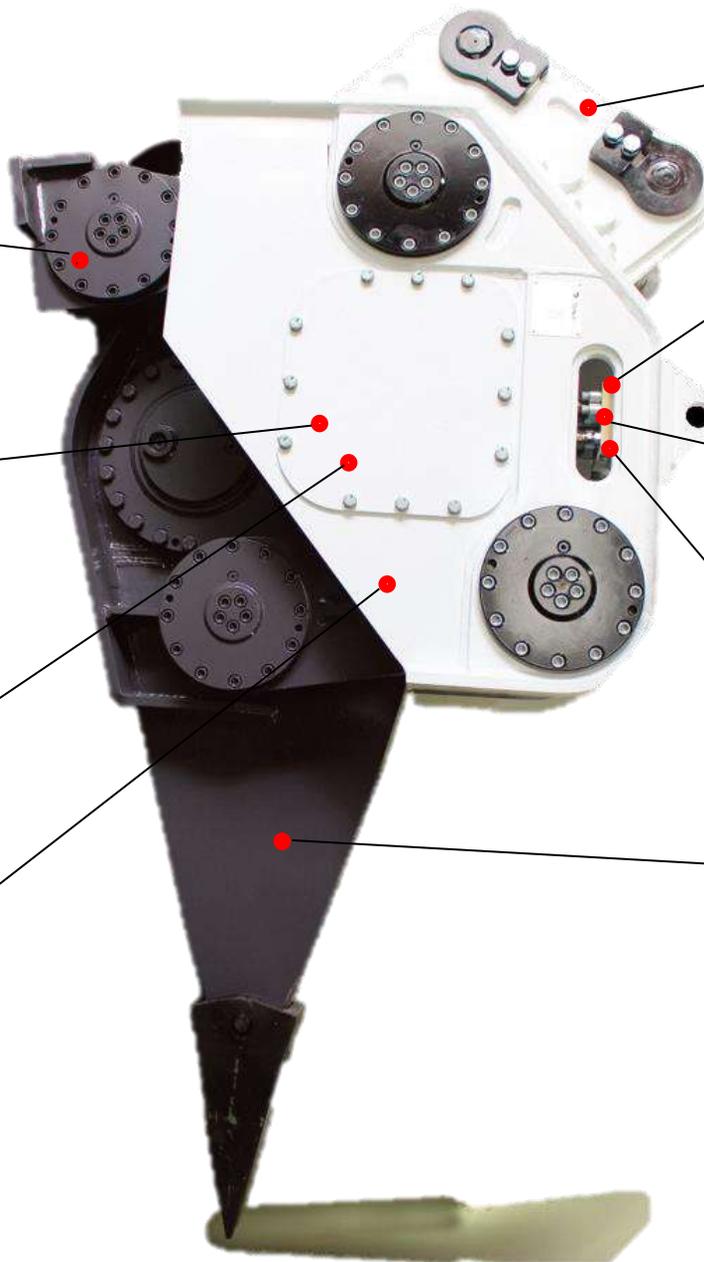
Inlet / outlet of oil to the motor.

Drain Port

Extra outlet line to prevent motor overload.

Body

Composed eccentric engine, link and Tooth.



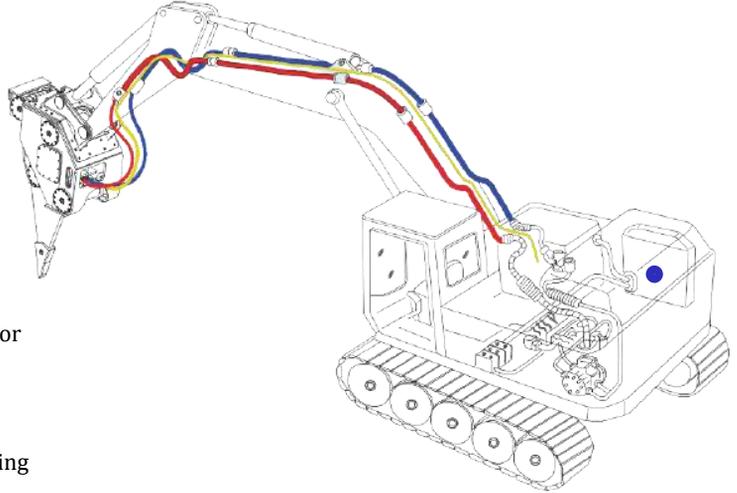
VIBRO RIPPER

VIBRO RIPPER PIPING LINE SYSTEM

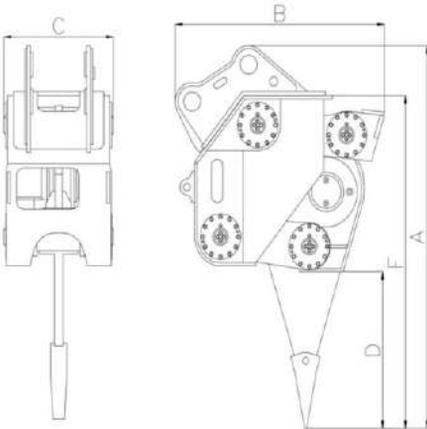
Basic Line Configuration

High / low pressure line and drain line,
Drain line is a mandatory to protect its motor.

- **INPUT LINE** : Proper pressure and flow rate should be used as hydraulic supply line to supply hydraulic motor with oil to operate Vibro Ripper.
- **OUTPUT LINE** : The line from which the hydraulic motor oil comes out, must be connected to the oil tank
- **DRAIN LINE** : Line that protects the motor by discharging pressure and oil that can not escape to the OUTLINE while driving the hydraulic motor
- **OIL TANK** : Excavator oil tank.



Specifications



		SVR 15	SVR 20	SVR 30	SVR 40	SVR 50	
Weight	kg	1,600	2,500	3,150	4,600	5,600	
Flow	ℓ/min	100~120	170~190	180~200	200~220	250~260	
Pressure	bar	180~200	210~220	240~250	240~250	240~250	
Frequency	rpm	1,500	1,500	1,400	1,300	1,200	
Dimension	A	mm	1,650	2,420	2,720	3,150	3,300
	B	mm	870	1,480	1,510	1,940	2,010
	C	mm	500	780	840	1,040	1,040
	D	mm	750	990	1,150	1,350	1,490
	F	mm	1,350	2,100	2,400	2,760	2,900
Application Excavator	ton	12~16	18~26	22~32	33~39	38~55	

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