

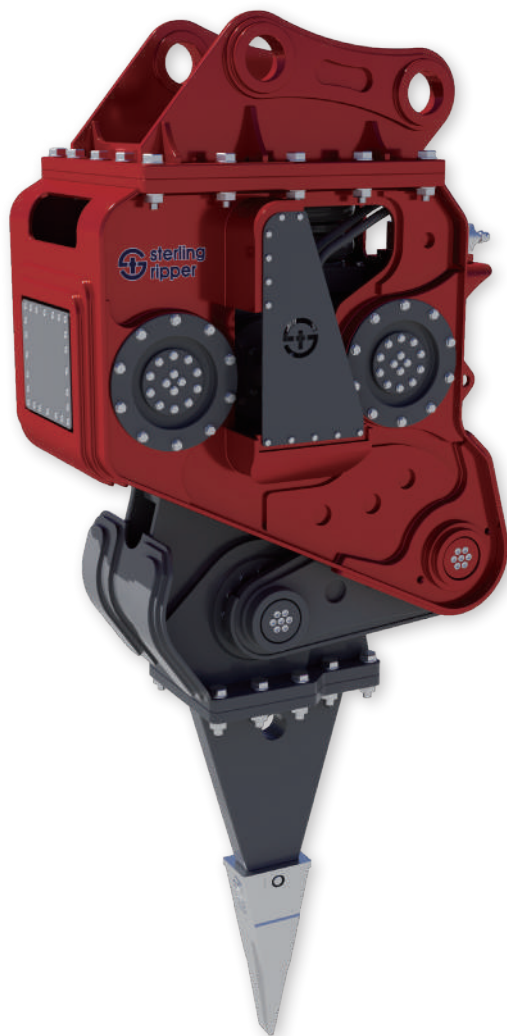
STERLING TECHNOLOGY

PRESENTATION & PRODUCT LINE



sterling  technology

STERLING RIPPER



JOB APPLICATION

Significantly wider offerings & 4 market segments enable further success!

MINING



DOWNTOWN CONSTRUCTION



TUNNEL CONSTRUCTION



UNDER WATER OPERATION



STERLING RIPPER

Quiet rock breaking technology! Stress & shock free to excavators and operators!

Sterling Ripper offers three options in **Tooth type** for soft & medium hard-rock, **Chisel type** and **Compactor type** for compacting ground. Single Sterling Ripper body has three optional tools! you can simply change it at site any time depending on rock types and various application!

Tooth type



Chisel type



Compactor type



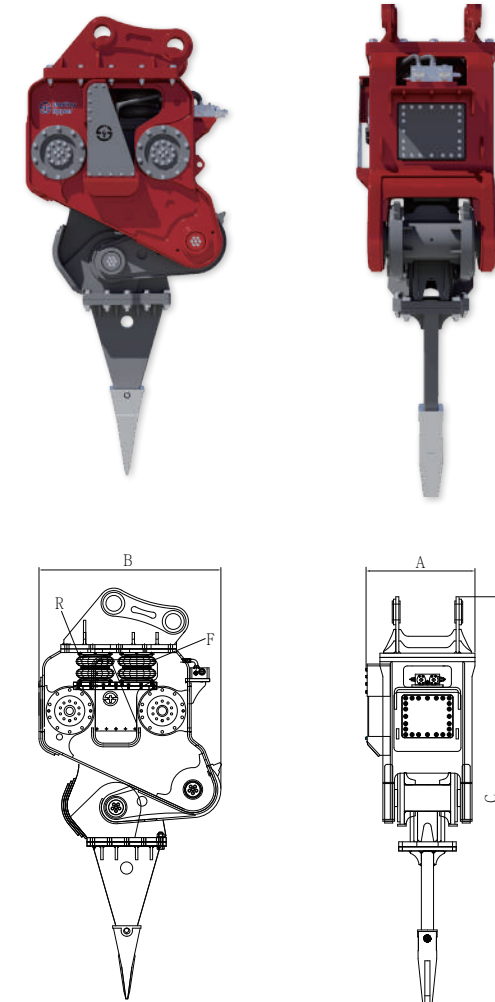
UNIQUE CARTILAGE-LINK STRUCTURE AND ROBUST BEARING STRUCTURE OF STERLING RIPPER

- Maximizing productivity and minimizing down time by on-site parts replacement
- Minimizing vibration transmitted to excavator and operator even at hard-rock
- The large class of Ripper, the higher productivity
- Rigid and higher durability at hard-rock job site
- Low maintenance

 STERLING RIPPER

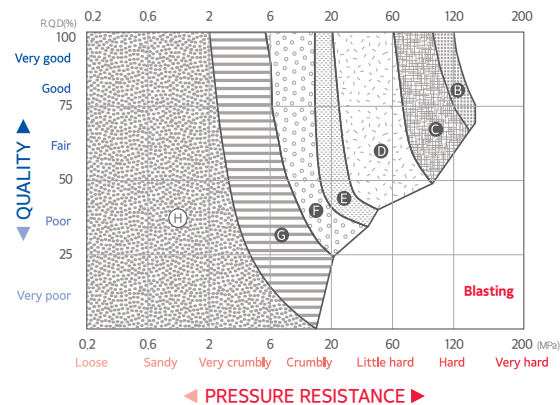
Description	Unit	SR25		SR30		SR40		SR50		SR80	
Operating weight*	Kg	2,620		3,580		4,950		5,750		10,500	
	lb	5,776		7,606		9,789		12,346		23,149	
Dimension (A x B x C)	mm	855 x 1,361 x 2,983		901 x 1,495 x 3,372		974 x 1552 x 3585		1,130 x 1,713 x 3,920		1,490 x 1,640 x 4,304	
	inch	30.98x 45.20 x112.99		35.47x59.09x130.19		38.34x61.06x138.18		44.34x67.41x152.48		55.28x63.00x161.42	
Chisel diameter Ø	mm	110		120		130		140		180	
	inch	4.33		4.72		5.12		5.51		7.09	
Relief setting pressure	Bar	250		250		280		280		300	
	Psi	3,626		3,626		4,061		4,061		4,351	
Operating pressure	Bar	180-220		180-220		210-250		210-250		240-270	
	Psi	2,610-3,190		2,610-3,190		3,045-3,626		3,045-3,626		3,481-3,916	
Oil flow	lpm	180-230		190-250		240-300		270-330		490-580	
	gpm	47-60		50-66		63-79		71-87		129-153	
Frequency	bpm	2,539~3,492		2,375~3,125		2,242~2,803		2,160~2,640		1,960~2,320	
Air spring nitrogen pressure	Bar	F	R	F	R	F	R	F	R	F	R
		3	3.5	3	3.5	4	4.5	4	4.5	5	5.5
	Psi	F	R	F	R	F	R	F	R	F	R
		43	50	43	50	58	65	58	65	58	65
Suitable carrier	ton	20~25		28~34		36~43		46~60		70~90	
	lb	44,092 ~ 55,115		61,729 ~ 74,957		79,366 ~ 94,798		101,412 ~ 132,277		154,323 ~ 198,416	

※ Specifications above are subject to change without notice.



COMPARISON CHART

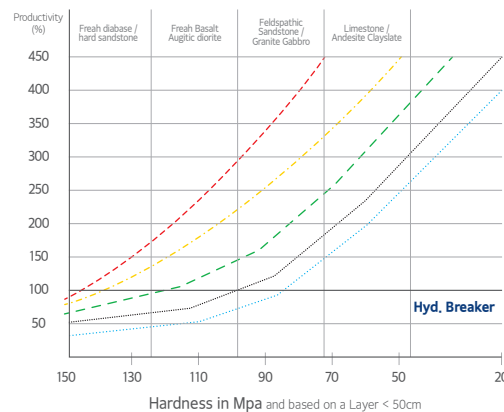
► Available equipment for rock hardness



The large-class Sterling Ripper performs exceptionally well in hard rock conditions, avoiding the common issues faced by most vibratory rippers, thanks to its cutting-edge Cartilage-Link technology.

Model	B	C	D	E	F	G
Hyd. Breaker	•	•	•	•	•	•
Sterling Ripper	•	•	•	•	•	•
Vibro Ripper		•	•	•	•	•
Dozer				•	•	•
Bucket						•

► Sterling Ripper VS Hydraulic breaker



The larger class of Sterling Ripper delivers significantly higher productivity than hydraulic breakers in soft to medium-hard rock, and performs exceptionally well in hard-rock job sites compared to conventional hydraulic breakers.

— — — — —	SR80
— • — • — • —	SR50
— — — — —	SR40
• • • • •	SR30
• • • • •	SR25

STRONG POINTS OF STERLING RIPPER

- **Higher Productivity Than Hydraulic Breakers**
 - Delivers 2 to 8 times greater productivity depending on rock type.
- **Superior Power Compared to Other Vibratory Rippers**
 - Features a unique structure with a larger, centrally positioned eccentric weight.
- **Most Powerful Ripper in Its Class**
 - Sterling Ripper leads its category in performance and durability.
- **Versatile Tool Options : Three Tools for One Ripper**
 - Chisel Type : Ideal for hard rock
 - Tooth Type : Suited for soft to medium-hard rock
 - Compactor Type: Designed for ground compaction
 - These interchangeable tools offer broader application flexibility than competitors.
- **Minimal Vibration to Excavator and Operator**
 - The unique Cartilage-Link technology delivers powerful striking force while reducing vibration transmission.
- **Reduced Impact and Operator Fatigue**
 - Less stress on the excavator and operator ensures safer and more comfortable operation.
- **Low Noise Operation**
 - Cartilage-Link structure keeps noise levels below 90 dB, enabling unrestricted use in downtown construction zones.
- **Easy On-Site Maintenance & Low Maintenance Costs**
 - Simplified component structure
 - Most parts replaceable directly at the job site
 - No need to return to a repair shop
 - Fewer parts than competitors, resulting in lower maintenance costs
 - Fast tooth replacement minimizes downtime and maximizes productivity
- **Underwater Operation Without Special Equipment**
 - Capable of performing various underwater work without costly or complex preparations.

STERLING **MULTI-SIDE GRIP PILE DRIVERS**

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

SEASIDE



RIVERSIDE



HEAD ROOM CONSTRUCTION



CONFINED SPACE



STERLING MULTI-SIDE GRIP PILE DRIVERS

Side grip type excavator-mounted vibratory pile driver

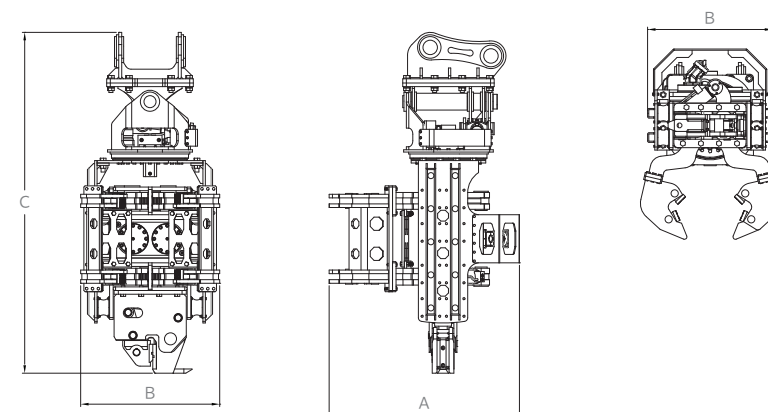


Model	Unit	SG15	SG25	SG30	SG40
Suitable Excavator	ton	14-22	20 ~ 26	28 ~ 36	36 ~ 50
Weight (Excl. Mounting Adapter)	Kg / Lbs	1,974 / 4,299	2,820 / 6,217	3,300 / 7,276	3,800 / 8,378
Setting Pressure	bar / PSI	300 / 4,350			
Oil Flow	lpm / gpm	90 ~ 108 / 24 ~ 29	150 ~ 170 / 40 ~ 45	180 ~ 220 / 48 ~ 58	240 ~ 260 / 63 ~ 69
Centrifugal force	kN / Tons	313 / 34	530 / 58	580 / 64	940 / 103
Frequency	RPM	2,800 ~ 3,370	3,300 ~ 3,600	2,800 ~ 3,600	3,000 ~ 3,250
Rotation	deg	360°			
Dimension (A x B x C)	mm inch	1,247 x 1,009 x 2,486 49.09 x 39.72 x 97.87	1,510 x 1,039 x 2,765 59.5 x 40.9 x 108.9	1,534 x 1,039 x 2,886 60.4 x 40.9 x 113.6	1,750 x 1,039 x 3,070 68.9 x 40.9 x 120.9
Tilting degree	deg	±30			
Bottom Jaw open	mm / inch	65 / 2.6			
Side clamp open	mm / inch	288 / 12.33			312 / 12.28
Min Pile Grip ø	mm / inch	76 / 3			
Max Pile Grip ø	mm / inch	610 / 24			

※ Specifications above are subject to change without notice.

FEATURES FOR STERLING SIDE GRIP

- Available for a wide ranges of piles
 - Sheet piles, H beams, I-H beams, and round-piles
- Versatile piling at headroom job site
- Versatile piling at a confined space job site
- Precise and accurate side clamping
 - 360-degree Swivel rotatable grip pads enable precisely and accurately clamping
- Quicker and more powerful
 - Faster penetration and extraction than other side grip pile drivers thanks to bigger and double eccentric weight
- Low maintenance cost & easy maintenance
 - compact structure of components
- Rigid and durable
 - Balanced counterweights and rigid rubber cushion



MODEL SELECTION GUIDE

Please refer to the following selection table for selecting suitable Sterling side grip models for the excavators

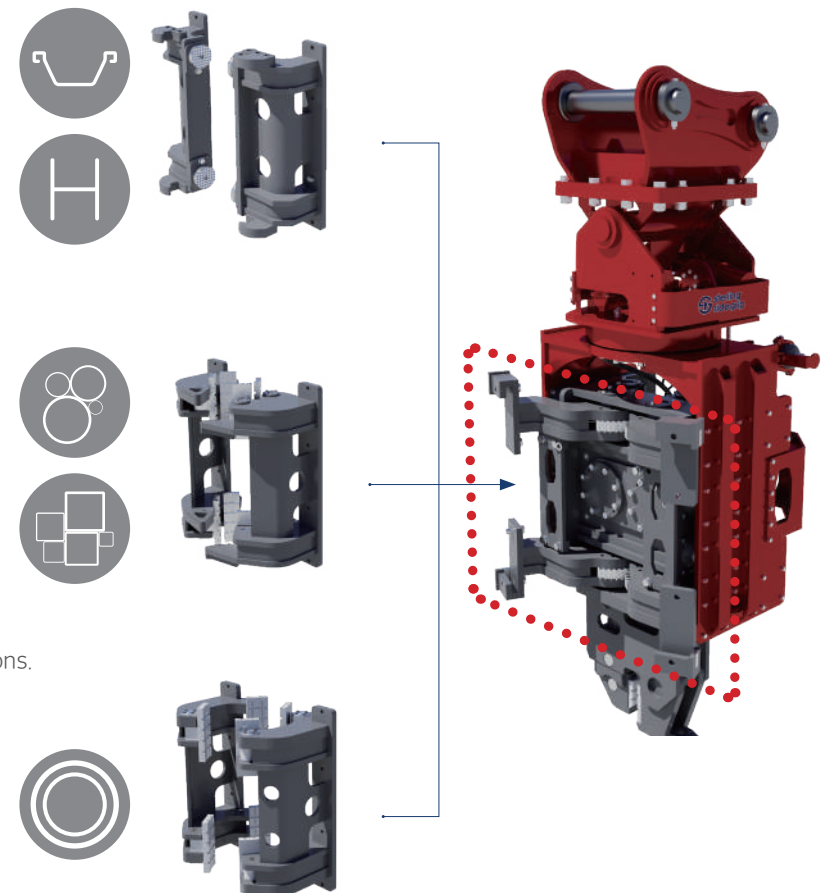
SELECTION TABLE

Excavator size Pile size (length / weight)	36 ~ 50ton	28 ~ 36ton	20 ~ 26ton	14 ~ 22ton
6m / 2,800kg	SG40	SG30 / SG25		
12m / 1,900kg				
16m / 1,300kg				
8m / 2,300kg				
12m / 1,800kg				
16m / 1,200kg				
6m / 1,200kg		SG15		
8m / 1,000kg				
10m / 900kg				
Suitable piles				
Sheet piles	width 400 ~ 1,200mm, depth 265mm			
H-beams / Round-piles	Max 500x300 / Max Dia 610mm			

※Please take into consideration for oil flow/pressure, lifting capacity/stability of excavators, soil and site conditions.

Model	Unit	SG15	SG25	SG30	SG40
Bottom Jaw open	mm / inch		65 / 2.6		
Side clamp open	mm / inch		312 (288) / 12.2 (11.3)		
Min Pile Grip Ø	mm / inch		76 / 3		
Max Pile Grip Ø	mm / inch		610 / 24		

※ Specifications above are subject to change without notice.

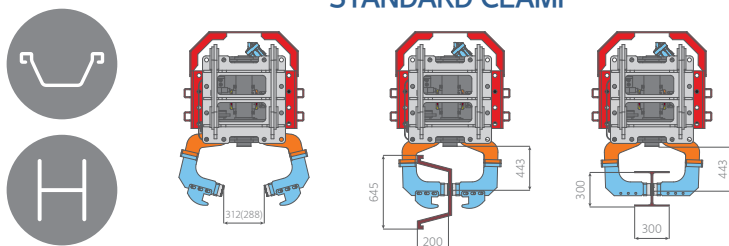


CLAMP SELECTION GUIDE

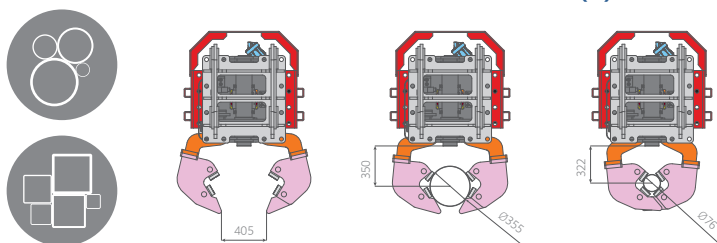
The following clamp selection guide provides the general guidelines for selecting the correct clamp for the different types and sizes of piles

CLAMP OPTION SPECIFICATION

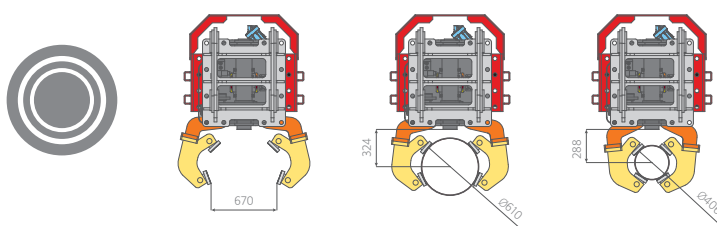
STANDARD CLAMP



ROUND PILE CLAMP (S)



ROUND PILE CLAMP (L)



INTERCHANGEABLE CLAMP OPTION

Thanks to its interchangeable side clamp system, the Sterling Side Grip pile driver can handle all types of piles with its multiple clamps, and it offers quick transfer capability between various applications.

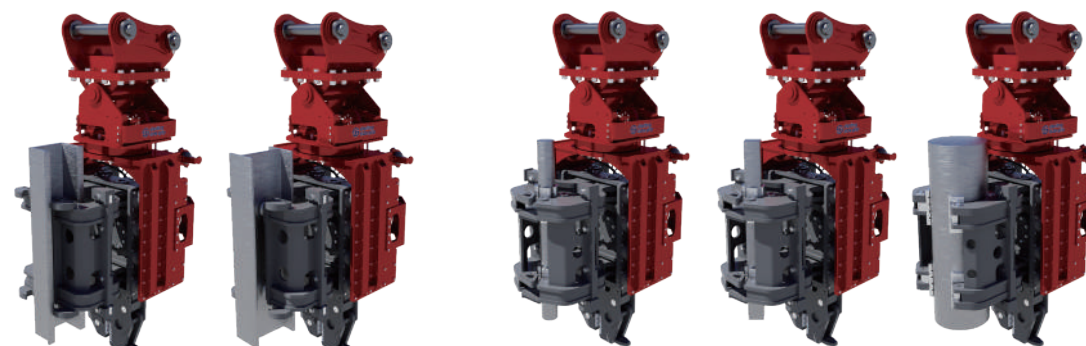
Round pile clamp (S) and round pile clamp (L) are an option.

NO NEED TO CHANGE ROUND CLAMP(L) UP TO Ø610mm / 24inch

Contact us for bigger than Ø610mm / 24inch - sterling@sterlingripper.com

Standard clamp

Round pile clamp (S / M / L)



For sheet piles and H beams

For round shape piles sized from
76mm / 3inch to 355mm / 14inch
Square 150mm / 6inch to 250mm / 10inch
For other size, contact sterling@sterlingripper.com

For round shape piles sized from
406mm 16inch to 610mm / 24inch

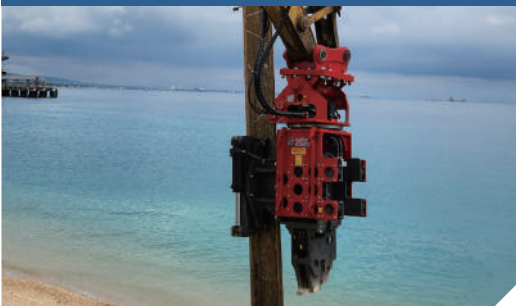


STERLING SIDE GRIP-W TYPE

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

SEASIDE



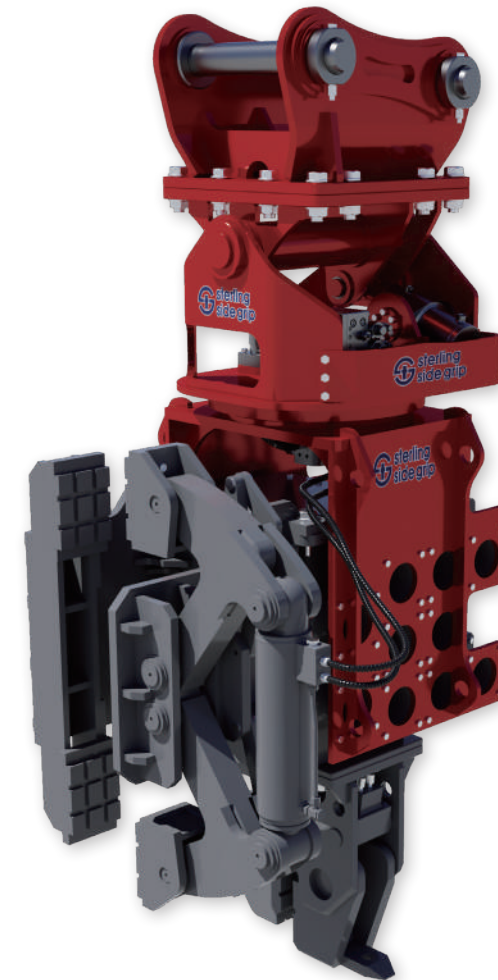
RIVERSIDE



HEAD ROOM CONSTRUCTION

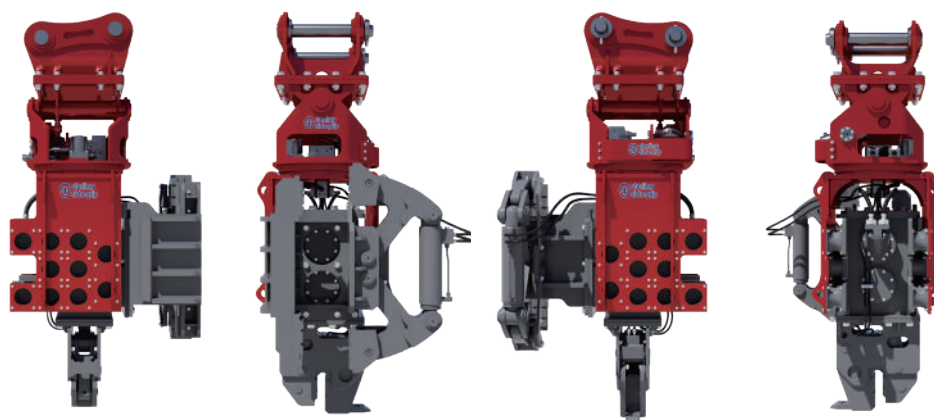


CONFINED SPACE



STERLING SIDE GRIP-W TYPE

Side grip type excavator-mounted vibratory pile driver

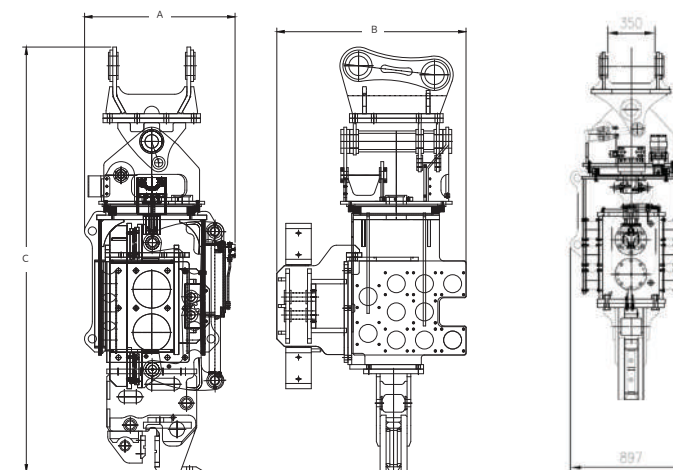


Model	Unit	SG25W	SG30W
Suitable Excavator	ton	17 ~ 26	22 ~ 36
Weight (Incl. Mounting Cap)	Kg / Lbs	2,620 / 5,776	2,800 / 6,173
Setting Pressure	bar / PSI	300 / 4,350	
Oil Flow	lpm / gpm	150 ~ 170 / 40 ~ 45	180 ~ 220 / 48 ~ 58
Centrifugal force	kN / Tons	530 / 58	580 / 64
Frequency	RPM	3,300 ~ 3,600	2800 ~ 3600
Rotation	deg	360°	
Dimension (A x B x C)	mm / inch	1,165 x 1,210 x 2,600 / 45.8 x 47.6 x 102.3	
Tilting degree	deg	±30	
Bottom Jaw open	mm / inch	65 / 2.5	
Side clamp open	mm / inch	255 / 10	

※ Specifications above are subject to change without notice.

FEATURES FOR SIDE GRIP - W TYPE

- Available for a wide ranges of piles
 - Sheet piles, H beams, and I-H beams
- Versatile piling at headroom job site
- Versatile piling at a confined space job site
- Precise and accurate side clamping
 - Balanced four pads allows firmly, precisely and accurately clamping
- Quicker and more powerful
 - Faster penetration and extraction than other side grip pile drivers thanks to bigger and double eccentric weight
- Low maintenance cost & easy maintenance
 - Compact structure of components
- Rigid and durable
 - Balanced counterweights and rigid rubber cushion



ADVANTAGE OF STERLING SIDE GRIP-W TYPE

- ▶ The Sterling 'W'-type side clamping system features a robust 'W'-shaped clamp structure that delivers strong gripping force and ensures precise, accurate side clamping.

Conventional Side grip clamping unit



Four fixed clamping pads with two separate arm structure may cause inaccurate clamping. Frequent inaccurate clamping may lead to crack or damage of clamping cylinder and clamp arm.

VS

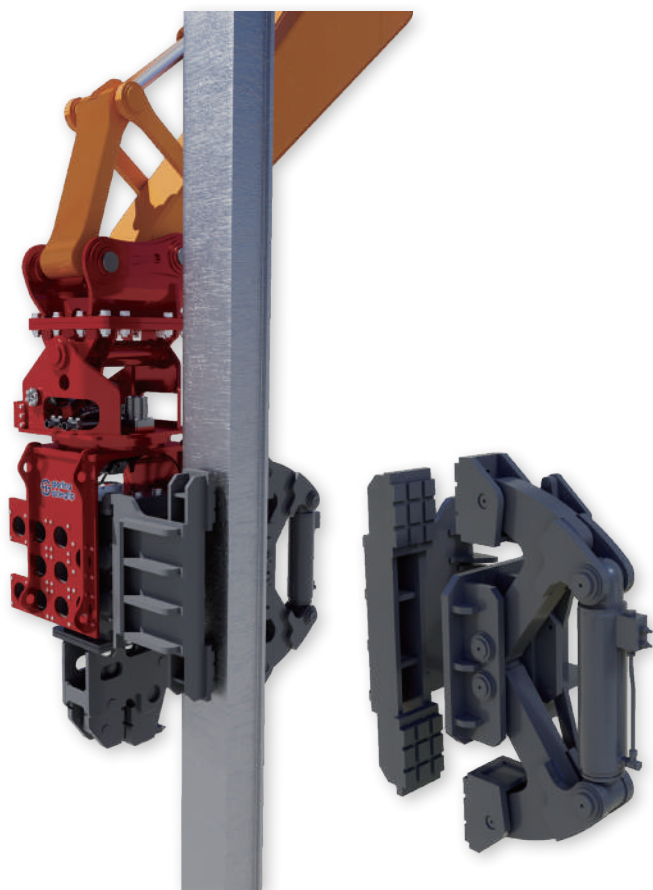
Sterling Side grip - W type clamping unit



The Sterling 'W'-type side clamping system features a robust 'W'-shaped clamp structure that delivers strong gripping force and ensures precise, accurate side clamping.

Ⓢ **SELECTION GUIDE / SHEET PILES & H BEAM ONLY**

Please refer to the following selection table for selecting suitable Sterling side grip models for the excavators



Ⓢ SELECTION TABLE

Excavator size	25 ~ 36ton	20 ~ 24ton
Pile size(length/weight)		
8m / 2,300kg	SG30W	SG25W
12m / 1,800kg		
16m / 1,200kg		
6m / 1,200kg		
8m / 1,000kg		
10m / 900kg		
12m / 8,500kg		
Suitable piles		
Sheet piles	width 400 ~ 1,200mm, depth 250mm	
H-beams	180 x 500mm	

※ Please take into consideration for oil flow/pressure, lifting capacity/stability of excavators, soil and site conditions.

Model	Unit	SG25W	SG30W
Bottom Jaw open	mm / inch	65 / 2.5	
Side clamp open	mm / inch	255 / 10	

※ Specifications above are subject to change without notice.

STERLING AUTO TILT HAMMER

JOB APPLICATION

Significantly wider offerings & 4 market segments enable further success

OPEN SPACE



RIVERSIDE



SAND FIELD

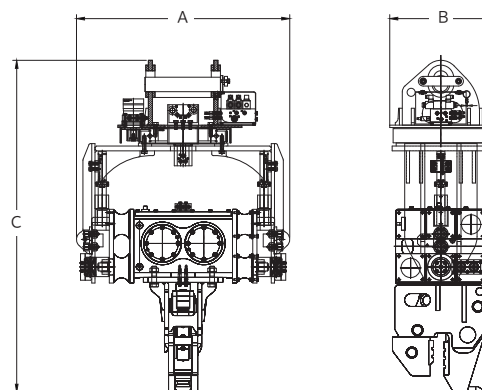
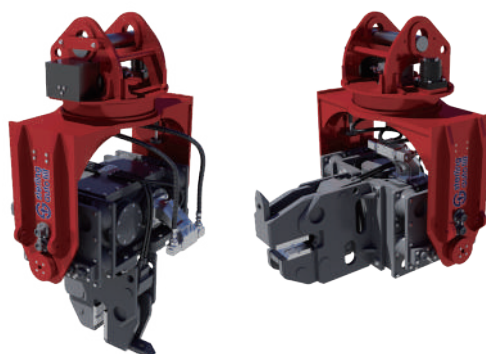


WITH AUGER



STERLING AUTO TILT HAMMER

Sterling Auto Tilt Hammer is an existing most robust tilt type hammer!



Model	Unit	SH15 TILT	SH25 TILT	SH30 TILT	SH40 TILT
Excavator	ton	13 ~ 18	20 ~ 26	28 ~ 36	36 ~ 50
Hammer Weight	Kg / Lbs	1,410 / 3,108	1,620 / 3,571	1,910 / 4,211	2,250 / 4,960
Extension boom weight	Kg / Lbs	520 / 1,146	520 / 1,146	610 / 1,345	700 / 1,543
Setting pressure	bar / PSI	300 / 4,350			
Oil Flow	lpm / gpm	90~110 / 24~29	150 ~ 170 / 40 ~ 45	180 ~ 220 / 48 ~ 58	240 ~ 260 / 63 ~ 69
Centrifugal Force	kN / Tons	324 / 38	530 / 58	580 / 64	940 / 103
Frequency	RPM	2800 ~ 3400	3,300 ~ 3,600	2,800 ~ 3,600	3,000 ~ 3,250
Rotation	deg	360°			
Tilt angle	deg	90°			
Jaw open	mm / inch	65 / 2.6			
Dimension (A x B x C)	mm inch	1,264 x 690 x 2,035 49.7 x 27.1 x 80.1	1,326 x 711 x 2,089 52.2 x 27.9 x 82.2	1,326 x 805 x 2,068 52.2 x 31.7 x 81.4	1,435 x 900 x 2,180 56.5 x 35.4 x 85.8

※ Specifications above are subject to change without notice.

Strong Points of Sterling Auto Tilt Hammer

- **More efficient and safer works**
 - 90-degree tilt / 360° hydraulic rotation function enable more efficient and safer work
- **“Auto Hold” function on 90-degree tilt position**
- **Low maintenance cost & Easy maintenance**
 - Compact design with no failure-prone cylinders of tilt function
- **Rigid and durable**
 - Durable structure and rigid rubber cushion
- **Low maintenance cost & easy maintenance**
 - Compact structure of components
- **Easy installation & operation**
 - Concise operation electric kits



STERLING HAMMER

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

OPEN SPACE



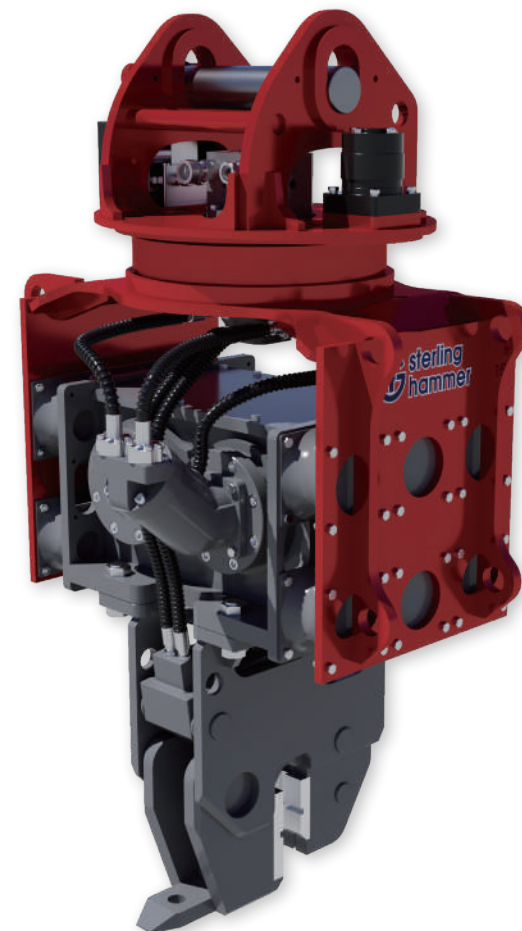
RIVERSIDE



SAND FIELD

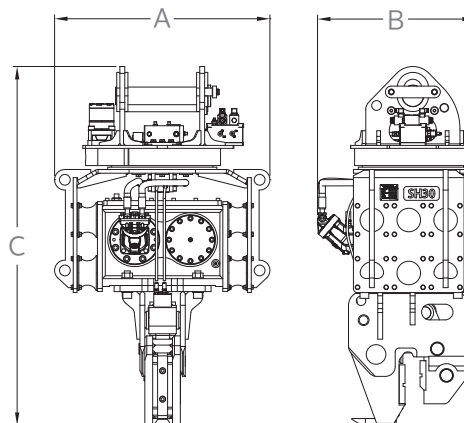


WITH AUGER



STERLING HAMMER

Sterling Hammer is an existing most powerful hammer in the same class!



Model	Unit	SH25	SH30	SH40
Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Hammer Weight	Kg / Lbs	1520 / 3,550	1,810 / 3,990	2,050 / 4,519
Extension boom weight	Kg / Lbs	520 / 1,146	610 / 1,345	700 / 1,543
Setting pressure	bar / PSI	300 / 4,350		
Oil Flow	lpm / gpm	150 ~ 170 / 40 ~ 45	180 ~ 220 / 48 ~ 58	240 ~ 260 / 63 ~ 69
Centrifugal Force	kN / Tons	530 / 58	580 / 64	940 / 103
Frequency	RPM	3,300 ~ 3,600	2,800 ~ 3,600	3,000 ~ 3,250
Rotation	deg	360°		
Tilt angle	deg	90°		
Jaw open	mm / inch	65 / 2.6		
Dimension (A x B x C)	mm inch	1,094 x 636 x 1,884 43.1 x 25.0 x 74.2	1,094 x 636 x 1,884 43.1 x 25.0 x 74.2	1,200 x 900 x 1,950 47.2 x 35.4 x 76.8

※ Specifications above are subject to change without notice.

Strong Points of Sterling Hammer

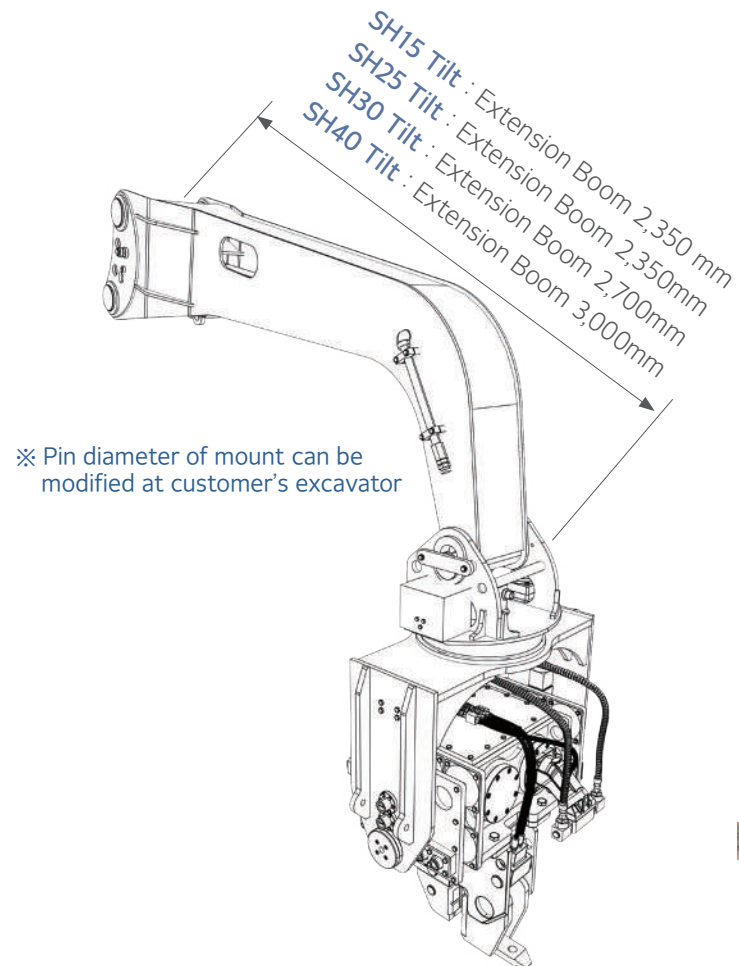
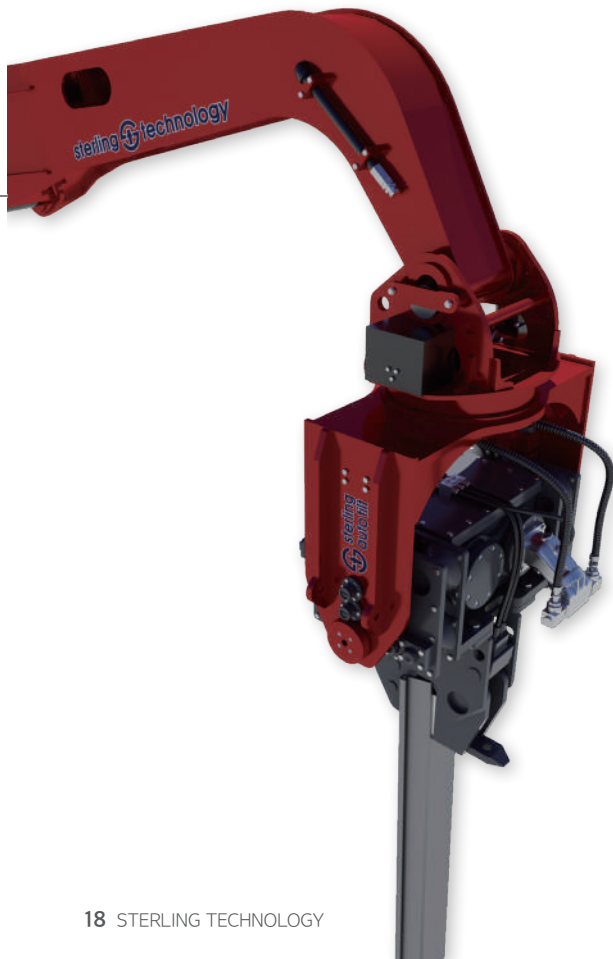
- **Faster and more powerful**
 - Faster penetration and pulling up than other vibratory hammers thanks to bigger and centered eccentric weight
- **Easy maintenance**
- **Low maintenance cost**
 - Concise structure of components
- **Rotational mounting**
 - 360 hydraulic rotation system
- **Rigid and durable**
 - Durable structure and rigid rubber cushion
- **Easy installation & operation**
 - Concise operation electric kits



STERLING TECHNOLOGY 17

STERLING AUTO TILT HAMMER **STERLING HAMMER**

WORKING RANGE - SH15 Tilt / SH25 Tilt / SH30 Tilt / SH40 Tilt



Model	Suitable Excavator
SH15 Tilt	13 ~ 18 ton
SH25 Tilt	20 ~ 26 ton
SH30 Tilt	28 ~ 36 ton
SH40 Tilt	36 ~ 50 ton

※ Specifications above are subject to change without notice.



STERLING PEOPLE!
STERLING PRODUCTS!
STERLING SERVICE!



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www.sterlingripper.com Inquiry : sterling@sterlingripper.com

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