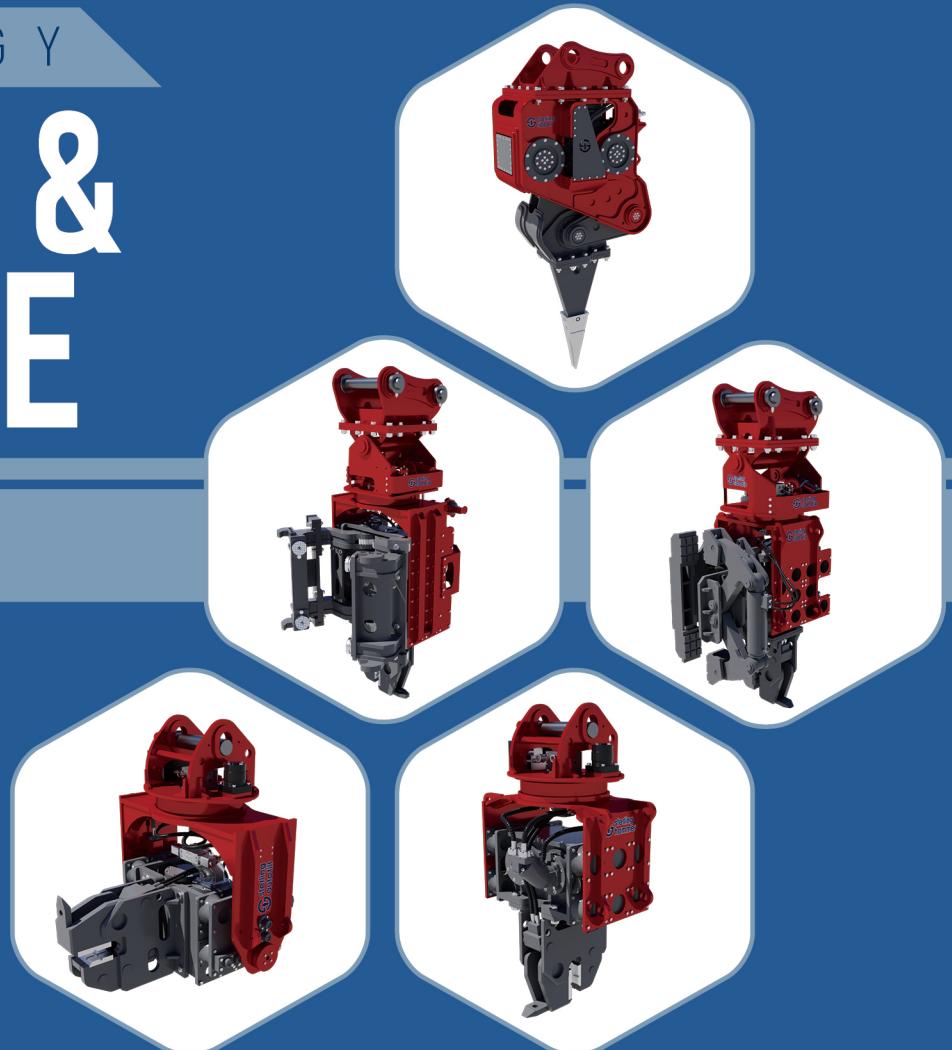
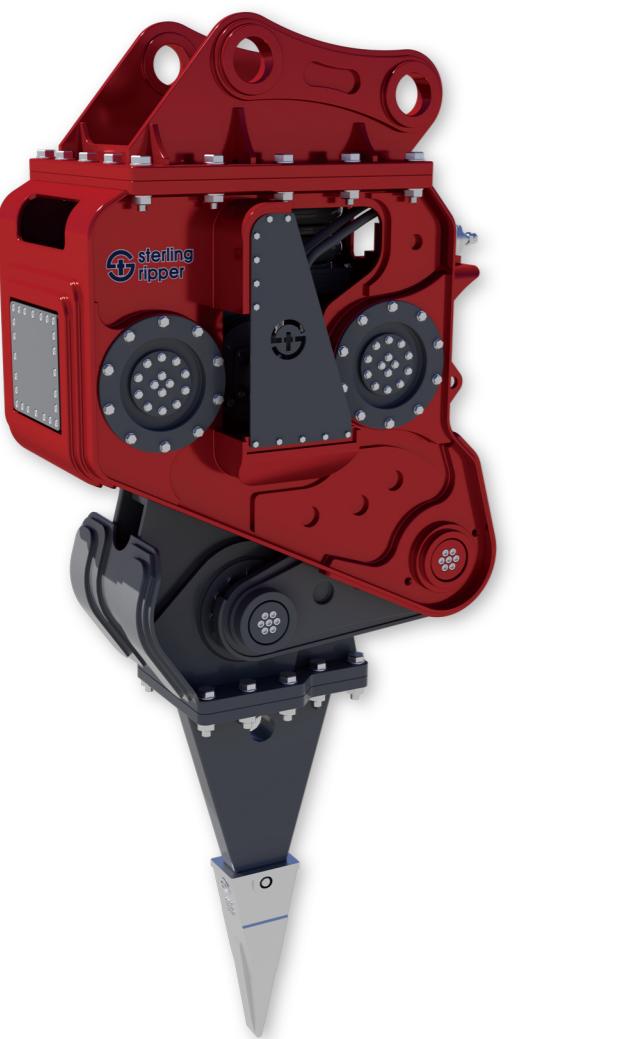


STERLING TECHNOLOGY

PRESENTATION & PRODUCT LINE



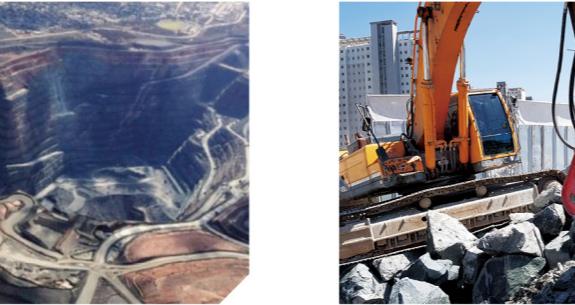
STERLING RIPPER



JOB APPLICATION

Significantly wider offering & 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** for hard-rock for hard-rock, 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 applications!

Tooth type



Chisel type



Tip type



Compactor type



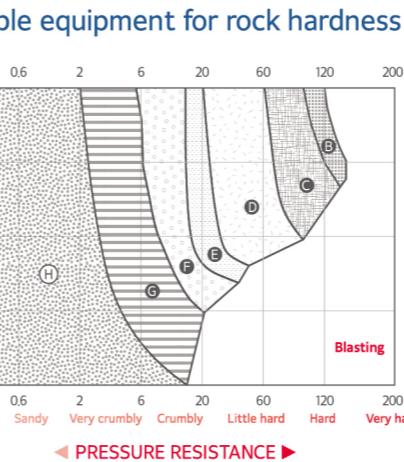
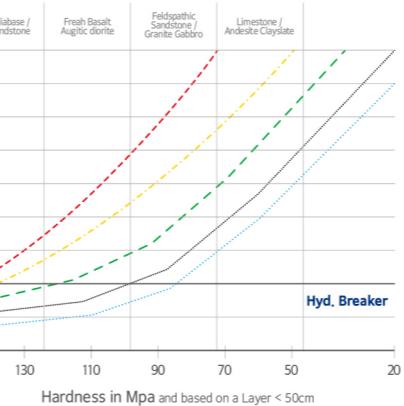
UNIQUE CARTILAGE-LINK STRUCTURE AND ROBUST BEARING STRUCTURE OF STERLING RIPPER

- Maximizing productivity and minimizing down time by on-site parts replacement
- Minimizing vibration transmitted to excavator and operator even at hard-rock
- Keeping constant and high productivity at hard-rock job site
- 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	30.98x45.20x112.99	35.47x59.09x130.19	38.34x61.06x138.18	44.34x74.41x152.48	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	2,500~3,500	2,400~3,200	2,200~2,900	2,000~2,600	1,900~2,400	
Air spring nitrogen pressure	Bar	F 3	R 3.5	F 3	R 3.5	F 3	R 3.5
	Psi	F 43	R 50	F 43	R 50	F 43	R 50
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.



The bigger class of Sterling Ripper, the much higher productivity and hydraulic breaker up to soft medium hard-rock and perform well at hard-rock job site compared to hyd. breaker

SR80

SR50

SR40

SR30

SR25

STRONG POINTS OF STERLING RIPPER

- Higher productivity than hydraulic breaker
 - 2 ~ 8 times better productivity than hydraulic breaker depending on type of rock
- More powerful than other vibratory rippers
 - Unique structure and design specially bigger and centered eccentric weight
 - Sterling Ripper most powerful Ripper in the same class
- Selective tool options - Three tools for one Ripper
 - Chisel type for hard rock, tooth type for soft & mid-hard rock and Compactor type for compacting ground
 - Three optional tools enable Sterling Ripper to offer wider selection of application than competitors at rock-breaking jobs
- Minimum vibration to excavator and operator at hard-rock
 - Unique Cartilage-link of Sterling Ripper allows more powerful striking force but less vibration transmitted to excavator and operator
 - Less impact to excavator and less fatigue to operator
- Minimum noise
 - Sterling Ripper's Unique Cartilage-link structure technology allows minimum noise at max. 90db and downtown building construction can be done without restrictions
- Easy on-site maintenance & low maintenance cost
 - Concise structure of components and structure
 - Most parts can be replaced at job site
 - No need to return it to repair shop
 - Less number of parts than competitors enable low maintenance cost
 - Maximum productivity can be achieved by reducing downtime by on-site parts replacement and fast tool replacement
- Under water operation without special devices
 - All kinds of work underwater can be done without any expensive and complicated preparation

STERLING SIDE GRIP PILE DRIVERS

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

SEASIDE



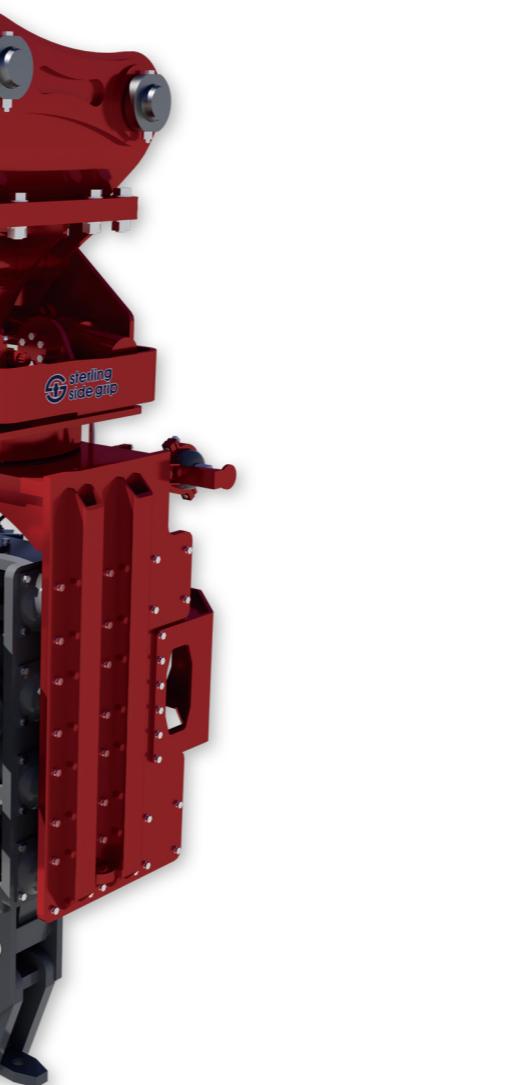
HEAD ROOM CONSTRUCTION



RIVERSIDE



CONFINED SPACE



STERLING SIDE GRIP PILE DRIVERS

Side grip type excavator-mounted vibratory pile driver

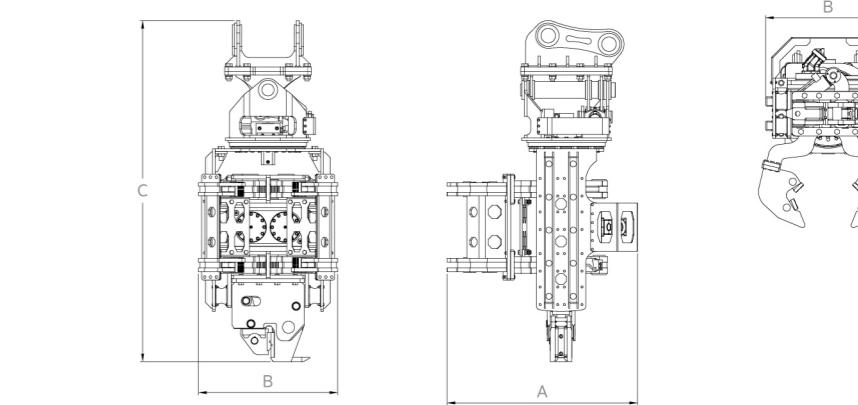


Model	Unit	SG25	SG30	SG40
Suitable Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Weight (Excl. Mounting Adapter)	Kg / Lbs	2,820 / 6,217	3,300 / 7,276	3,800 / 8,378
Setting Pressure	bar / PSI		300 / 4,350	
Oil Flow	lpm / gpm	150 ~ 170 / 40 ~ 45	180 ~ 220 / 48 ~ 58	240 ~ 260 / 63 ~ 69
Centrifugal force	kN / Tons	530 / 58	580 / 64	940 / 103
Frequency	RPM	3,300 ~ 3,600	2,800 ~ 3,600	3,000 ~ 3,250
Rotation	deg		360°	
Dimension (A x B x C)	mm / inch	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		337 / 13.2	
Min Pile Grip ø	mm / inch		76 / 3	
Max Pile Grip ø	mm / inch		609 / 24	

※ Specifications above are subject to change without notice.

FEATURES FOR STERLING SIDE GRIP

- Available for a wide range 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
 - Concise structure of components
- Rigid and durability
 - Balanced counter weights and rigid rubber cushion



MODEL SELECTION GUIDE

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

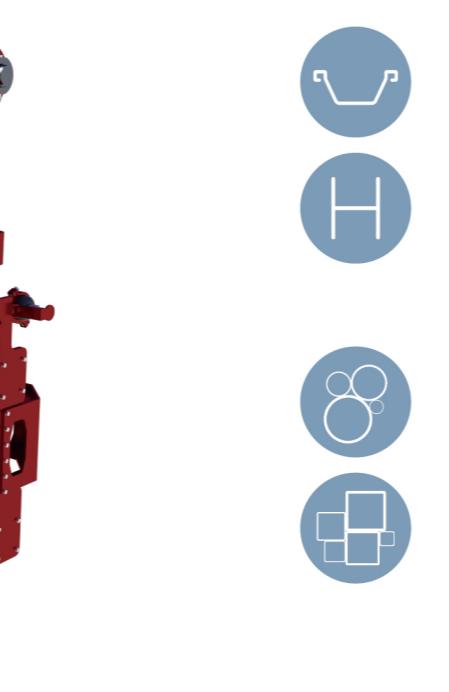
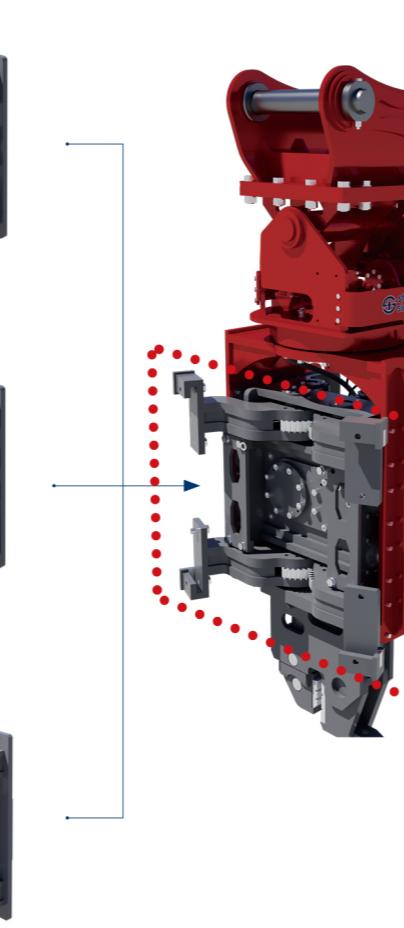
SELECTION TABLE

Excavator size	36 ~ 50ton	28 ~ 36ton	20 ~ 26ton
Pile size(length / weight)			
6m / 2,800kg			
12m / 1,900kg			
16m / 1,300kg			
8m / 2,300kg			
12m / 1,800kg			
16m / 1,200kg			
6m / 1,200kg			
8m / 1,000kg			
10m / 900kg			
Suitable piles			
Sheet piles	width 400 ~ 1,200mm, depth 265mm		
H-beams / Round-piles	Max 500 x 300 / Max Ø 609mm		

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

Model	Unit	SG25	SG30	SG40
Bottom Jaw open	mm / inch		65 / 2.6	
Side clamp open	mm / inch		337 / 13.2	
Min Pile Grip Ø	mm / inch		76 / 3	
Max Pile Grip Ø	mm / inch		609 / 24	

※ Specifications above are subject to change without notice.

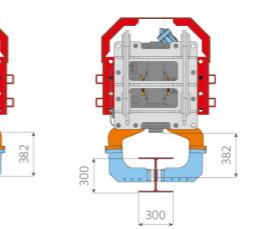


CLAMP SELECTION GUIDE

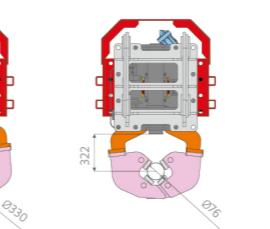
The following clamp selection guide provides the general guidelines for selecting the correct clamp for the different types and sizes of piles

CLAMP OPTION SPECIFICATION

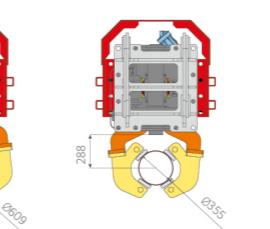
Standard clamp



Round pile clamp(S)



Round pile clamp(L)



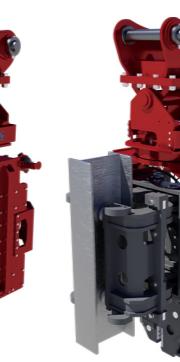
INTERCHANGEABLE CLAMP OPTION

Thanks to its interchangeable side clamp system, the Sterling Side Grippe drive 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) UPTO Ø609mm / 24inch

Contact us for bigger than Ø609mm / 24inch - sterling@sterlinggrippe.com

Standard clamp



Round pile clamp (S / M / L)



For sheet piles and H-beams

For round shape piles sized from 76mm / 3inch to 30mm / 13inch
Square 150mm / 5inch to 250mm / 10inch
For other size, contact sterling@sterlinggrippe.com



STERLING SIDE GRIP-W TYPE

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

SEASIDE



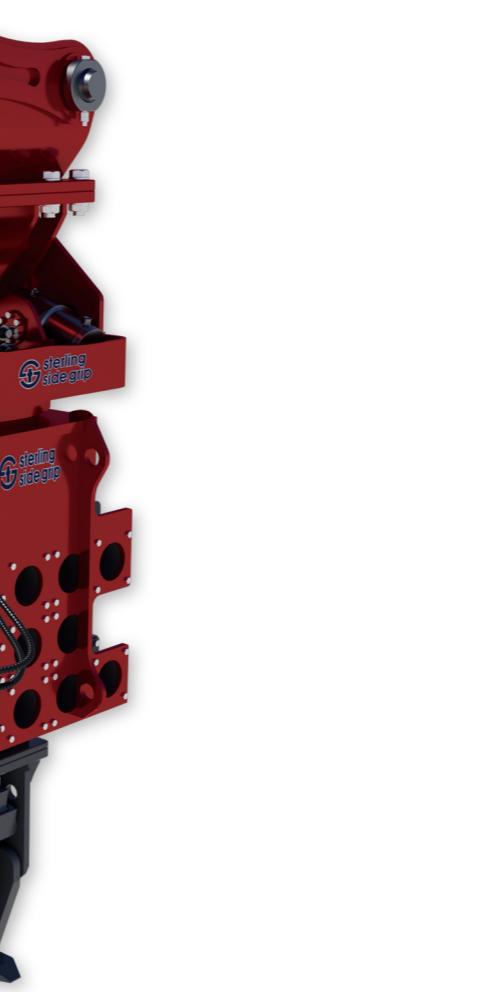
RIVERSIDE



HEAD ROOM CONSTRUCTION

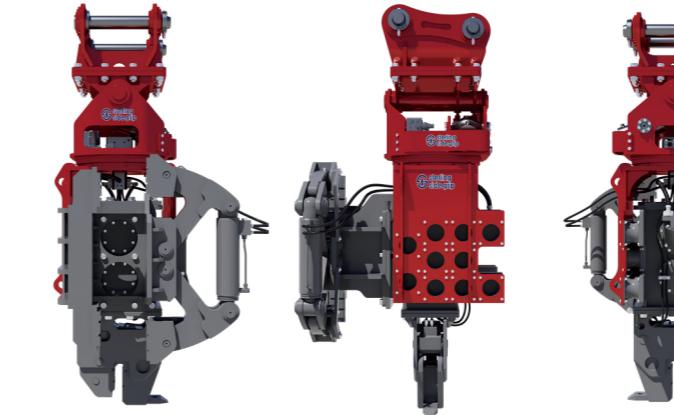


CONFINED SPACE



STERLING SIDE GRIP-W TYPE

Side grip type excavator-mounted vibratory pile driver

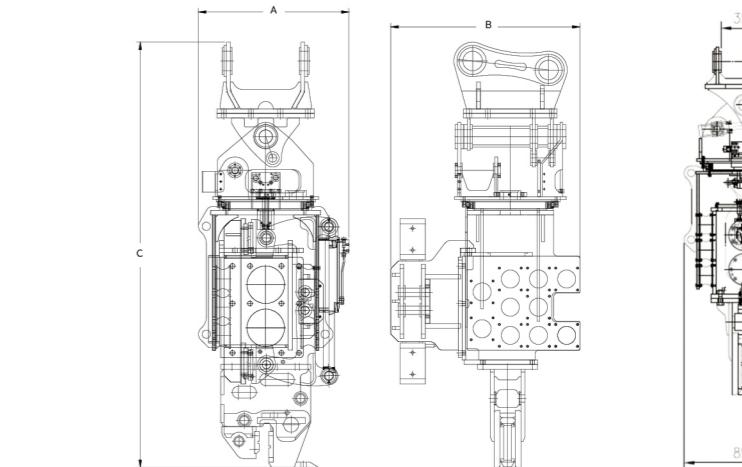


FEATURES FOR SIDE GRIP-W TYPE

- Available for a wide range of piles
 - Sheet piles, H beams, and I-beams
- Versatile piling at headroom jobsite
- Versatile piling at a confined space job site
- Precise and accurate side clamping
 - Balanced four pads allow 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
 - Concise structure of components
- Rigid and durability
 - Balanced counter weights and rigid rubber cushion

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	2,800 ~ 3,600
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	

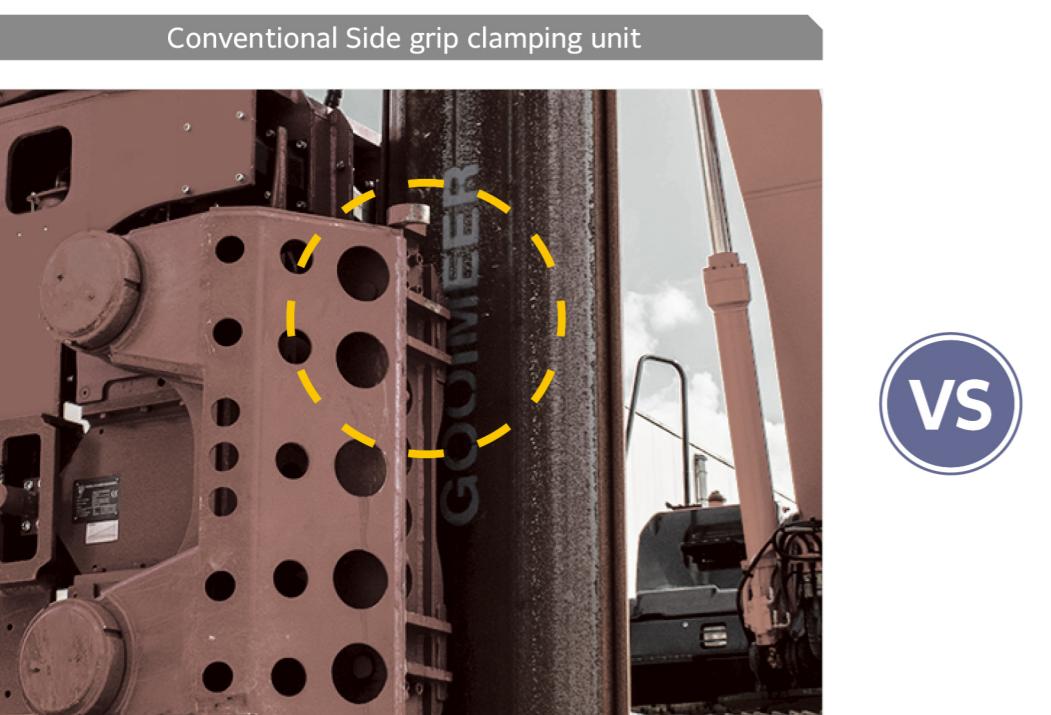
※ Specifications above are subject to change without notice.



ADVANTAGE OF STERLING SIDE GRIP-W TYPE

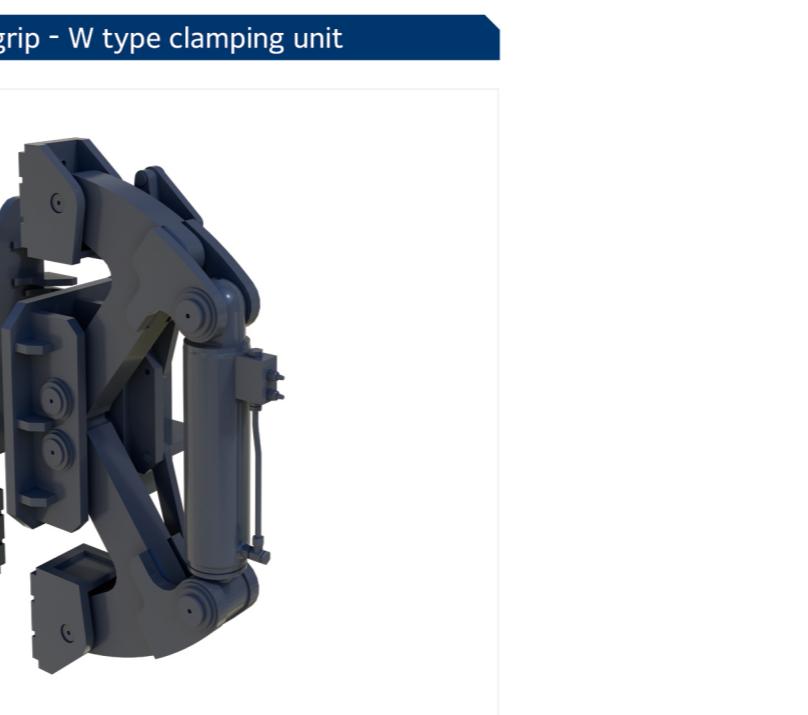
► Sterling "W" type Side clamping

"W" shape clamp structure of Sterling Side grip - **Precise and accurate side clamping**

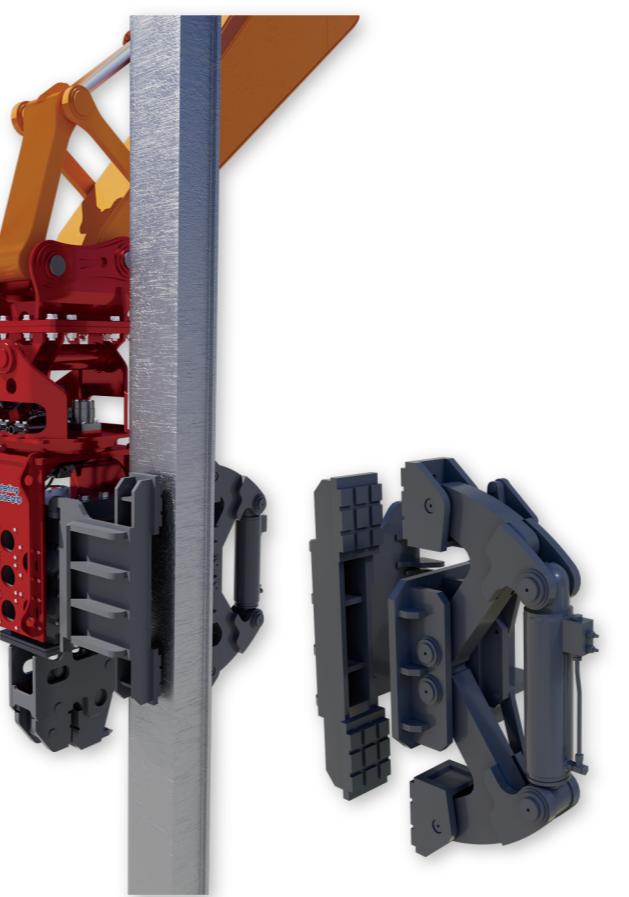


Four fixed clamping pads with two separate arm structure may cause inaccurate clamping. Frequent inaccurate clamping may lead to crack or damage of clamping cylinder and clamp arm.

VS



"W" shape clamp structure and balanced four pads allows firmly, precisely and accurately clamping all the time.



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

SELECTION GUIDE / SHEET PILES & H BEAM ONLY

SELECTION TABLE

Excavator size	25 ~ 30ton	20 ~ 24ton
Pile size(length/weight)		
8m / 2,300kg		
12m / 1,800kg		
16m / 1,200kg		
6m / 1,200kg		SG30W
8m / 1,000kg		
10m / 900kg		
12m / 8,500kg		
Suitable piles		
Sheet piles	width 400 ~ 1,200mm, depth 25mm	
H-beams	30 x 50mm	

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

Model	Unit	SG25W	SG30W
Bottom Jaw open	mm / inch	55 / 2.5	
Side clamp open	mm / inch	55 / 10	

※ Specifications above are subject to change without notice.

STERLING AUTO TILT HAMMER

JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

OPEN SPACE



RIVERSIDE



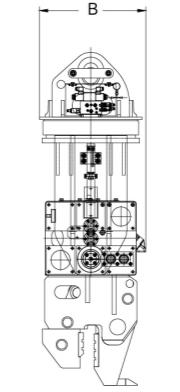
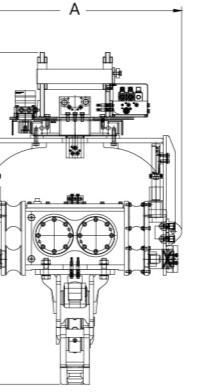
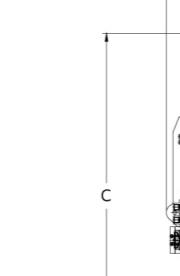
SAND FIELD



WITH AUGER



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



Model	Unit	SH25 TILT	SH30 TILT	SH40 TILT
Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Hammer Weight	Kg / Lbs	1,620 / 3,571	1,910 / 4,211	2,250 / 4,960
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	1,326 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.

STERLING AUTO TILT HAMMER

STRONG POINTS OF STERLING AUTO TILT HAMMER

- More efficient and safer works
 - 90-degree tilt / 360° hydraulic rotation function make more efficient and safer works
- “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 durability
 - Durable structure and rigid rubber cushion
- Low maintenance cost & easy maintenance
 - Concise 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

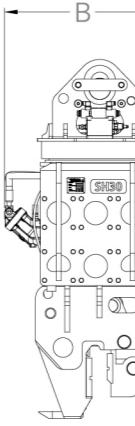
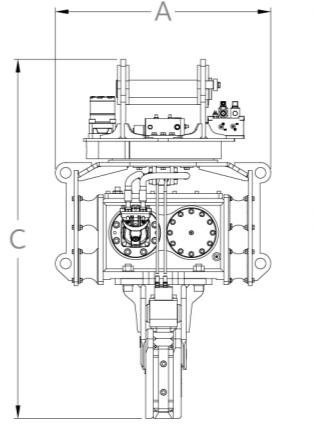


WITH AUGER



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.



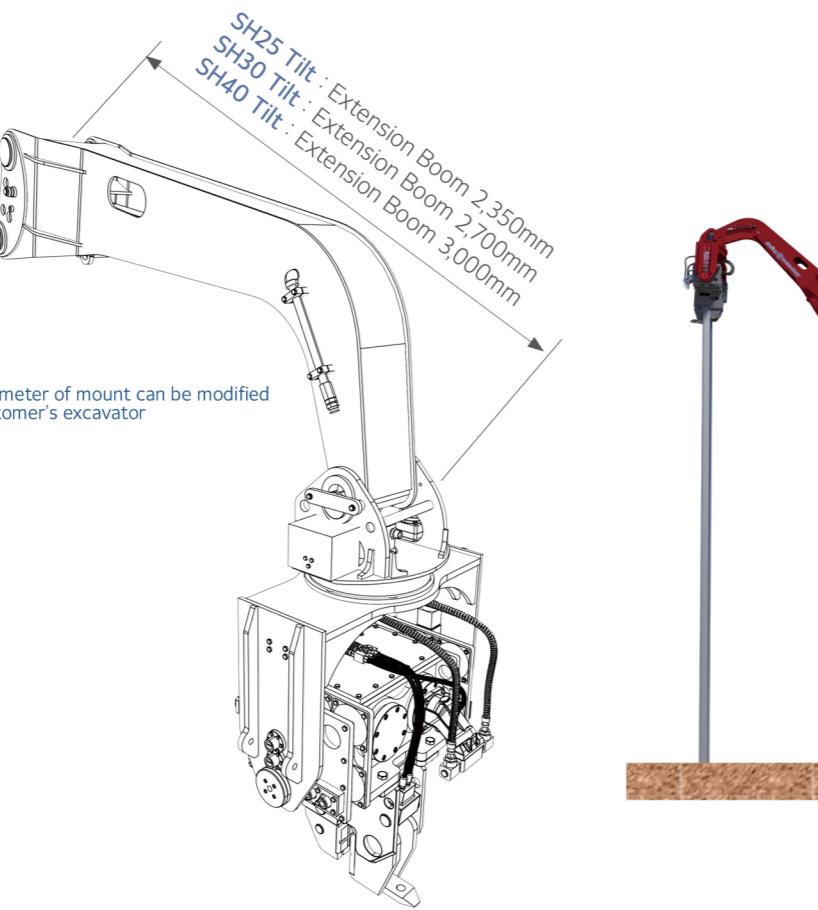
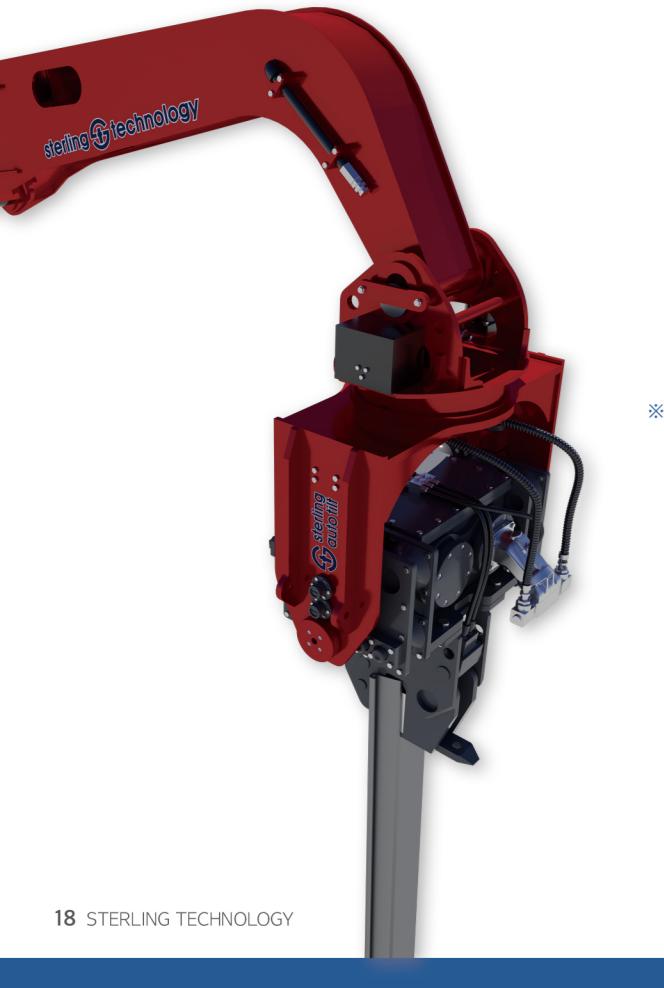
STRONG POINTS OF STERLING HAMMER

- Faster and more powerful**
 - Faster penetration and piling 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 durability**
 - Durable structure and rigid rubber cushion
- Easy installation & operation**
 - Concise operation electrics

STERLING AUTO TILT HAMMER

STERLING HAMMER

WORKING RANGE - SH25 Tilt / SH30 Tilt / SH40 Tilt



NOTE

Model	Suitable Excavator
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!



sterling  **technology**

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