

sterling  technology

# PILE DRIVERS



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AND PRECISION  
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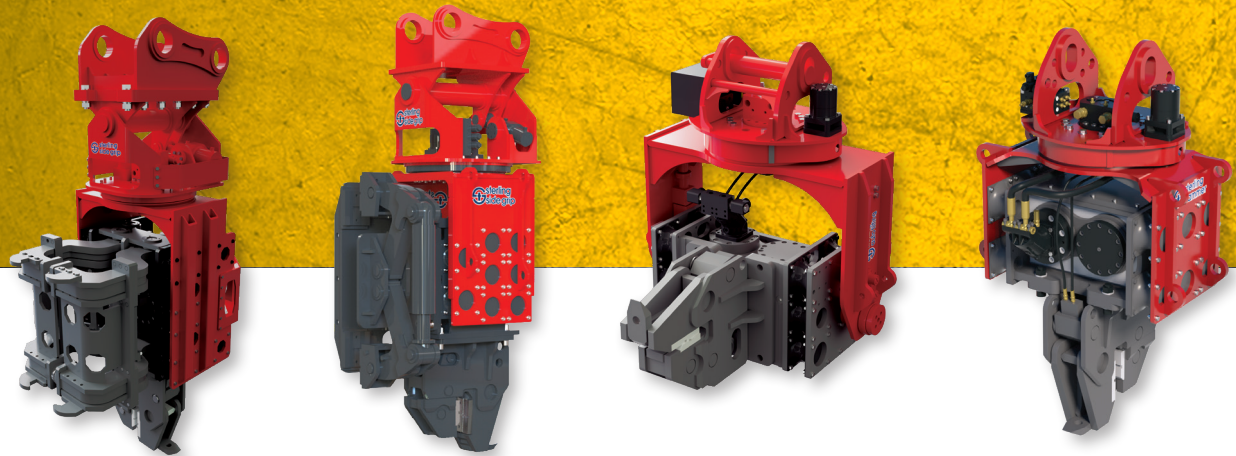
  
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Stirling Pile Drivers are the international leaders in their class and Boss Attachments is proud to be associated with this outstanding brand.



The Stirling range includes Side Grip Pile Drivers, Vibrating Hammers and various excavation attachments for the construction, civil engineering, earthworks, quarrying and tunnelling industries.

Featuring advanced design and engineering features the Stirling brand has the power, precision and reliable performance that Australasian contractors insist on.

# STERLING SIDE GRIP PILE DRIVERS

Side grip type excavator-mounted vibratory pile driver

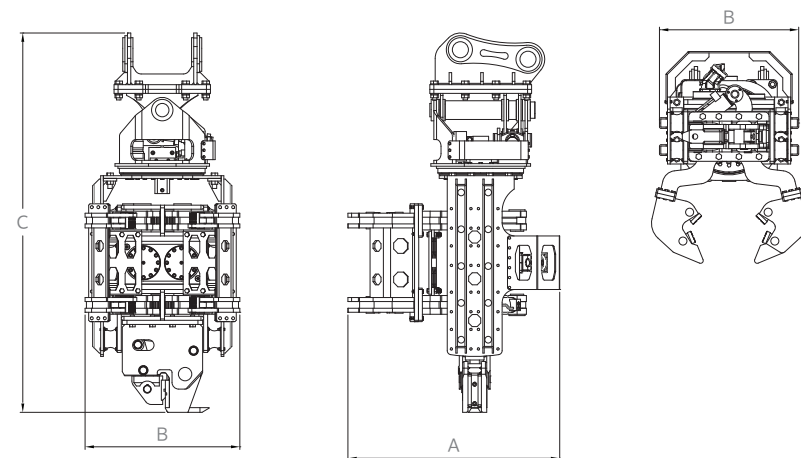


Model	Unit	SG25	SG30	SG40
Suitable Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Weight (Incl. Mounting Cap)	kg	2,820	3,300	3,800
Setting Pressure	bar	250	250	280
Oil Flow	lpm	170 - 200	180 - 220	240 - 260
Centrifugal force	kN	520	610	700
Eccentric Moment	kgm	3.7	4.3	8.2
Frequency	bpm	2,800 ~ 3,600	2,800 ~ 3,600	2,200 ~ 2,800
Rotation	deg	360	360	360
Dimension (A x B x C)	mm	1,515 x 1,040 x 2,833	1,515 x 1,040 x 2,833	1,560 x 1,110 x 2,918
Tilting degree	deg	±30	±30	±30
Bottom Jaw open	mm	65	65	65
Side clamp open	mm	352	352	352
Min Pile Grip Dia	mm	150	150	150
Max Pile Grip Dia	mm	500	500	500

※ 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**
  - Concise structure of components
- **Rigid and durability**
  - Double bearings, 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

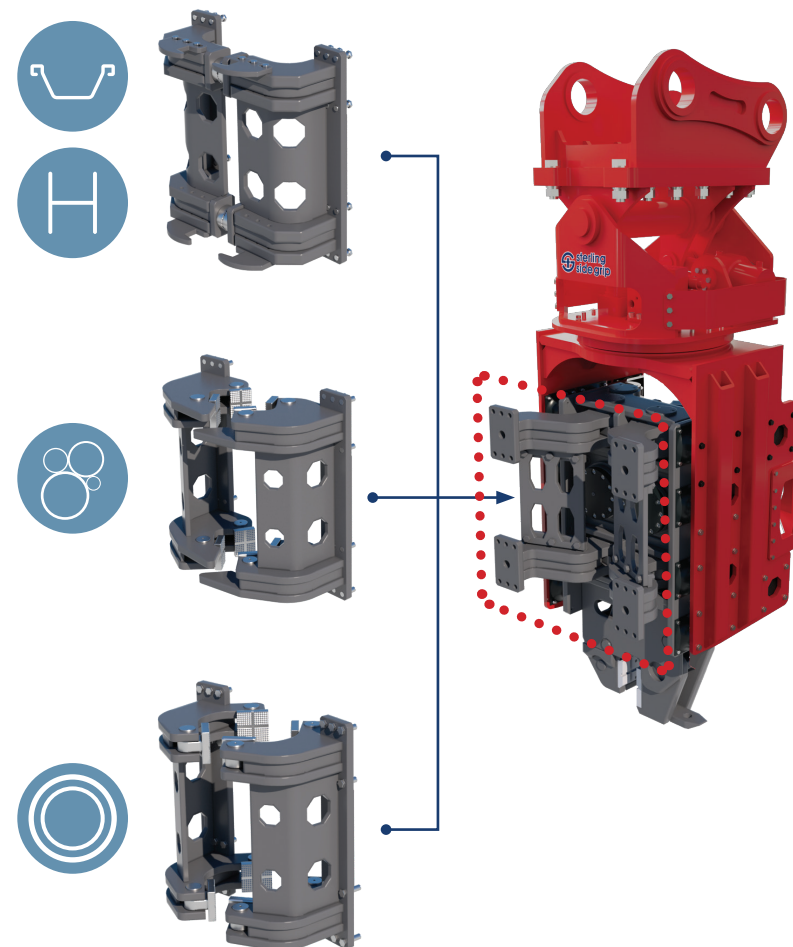
## SELECTION TABLE

Excavator size	36-50ton	28-36ton	20-26ton
Pile size(length/weight)			
6m/2800kg	SG40		
12m/1900kg			
16m/1300kg			
8m/2300kg		SG30	SG25
12m/1800kg			
16m/1200kg			
6m/1200kg			
8m/1000kg			
10m/900kg			
Suitable piles			
Sheet piles	width 400 ~ 1,200mm, depth 265mm		
H-beams/Round-piles	Max 500 x 300 / Max dia 500mm		

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

Model	Unit	SG25	SG30	SG40
Suitable Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Bottom Jaw open	mm	65	65	65
Side clamp open	mm	352	352	352
Min Pile Grip Dia	mm	150	150	150
Max Pile Grip Dia	mm	500	500	500

※ Specifications above are subject to change without notice.

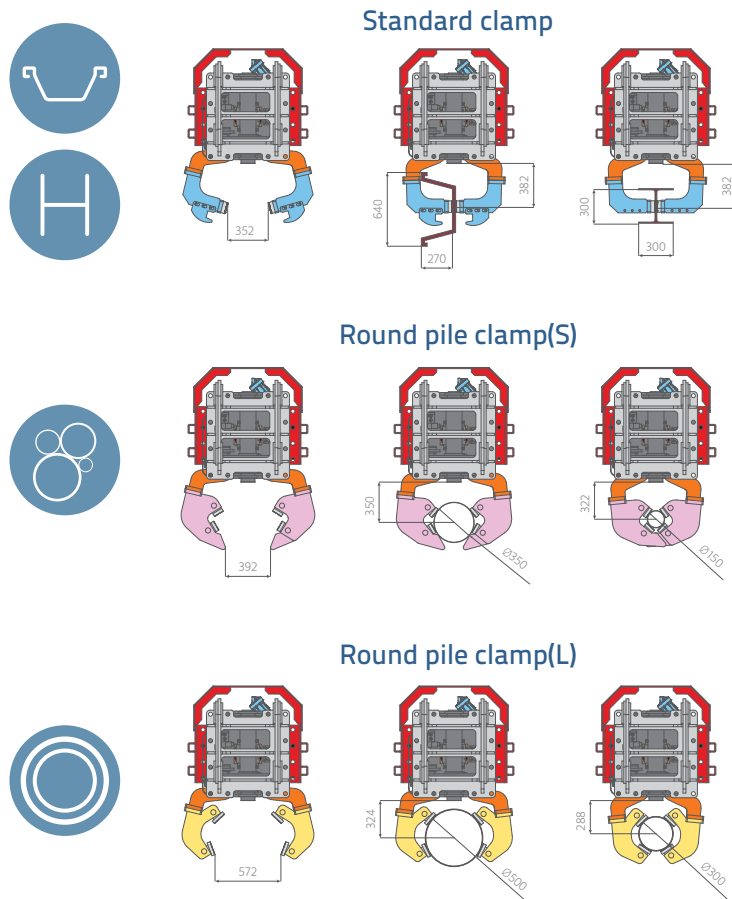




# CLAMP SELECTION GUIDE

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

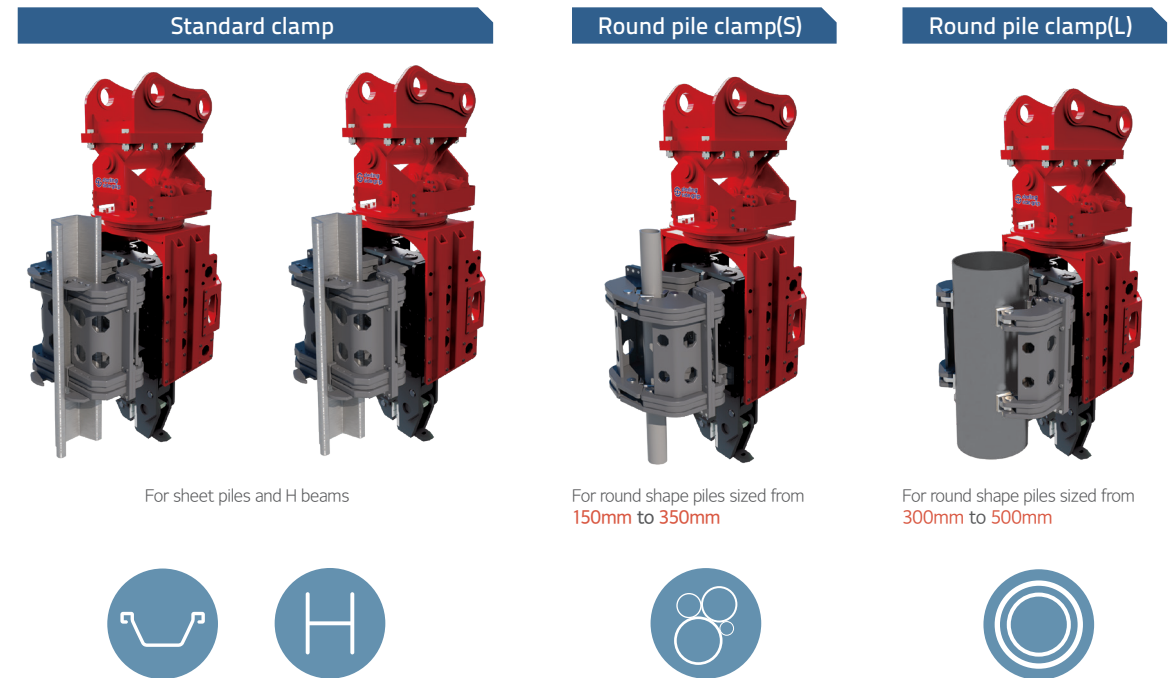
## CLAMP OPTION SPECIFICATION



## 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.





# STERLING SIDE GRIP-W TYPE

## JOB APPLICATION

Significantly wider offering & 4 market segments enable further success

SEA SIDE



RIVER SIDE



HEAD ROOM CONSTRUCTION



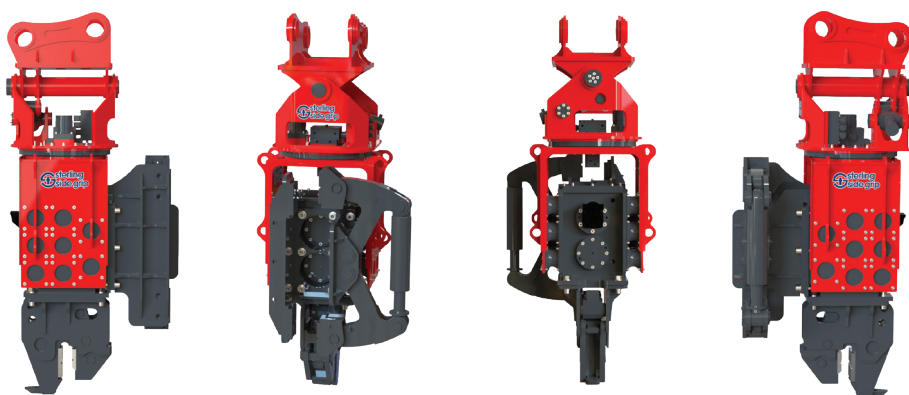
CONFINED SPACE JOB SITE





# STERLING SIDE GRIP-W TYPE

Side grip type excavator-mounted vibratory pile driver

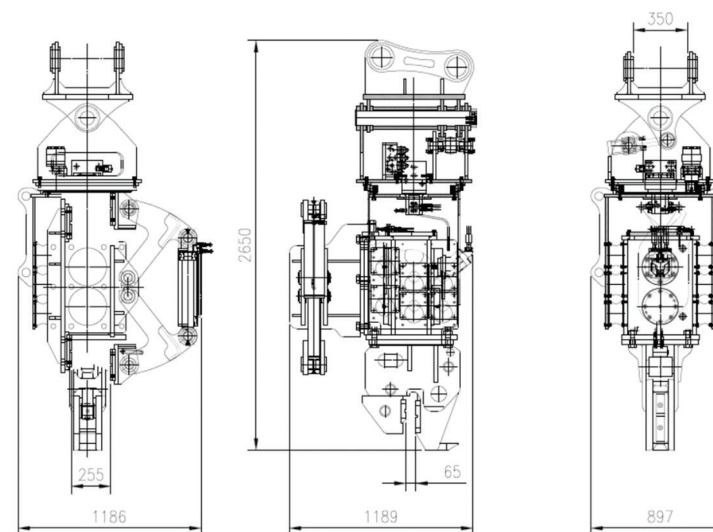


Model	Unit	SG25W	SG30W
Suitable Excavator	ton	17 ~ 26	22 ~ 36
Weight(Incl. Mounting Cap)	kg	2,620	2,800
Setting Pressure	bar	250	250
Oil Flow	lpm	170 - 200	180 - 220
Centrifugal force	kN	520	610
Eccentric Moment	kgm	3.7	4.3
Frequency	bpm	2,800 ~ 3,600	2,800 ~ 3,600
Rotation	deg	360	360
Dimension(A x B x C)	mm	1,165 x 1,189 x 2,600	1,165 x 1,189 x 2,600
Tilting degree	deg	±30	±30
Bottom clamp open	mm	65	65
Side clamp open	mm	255	255

※ 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**
  - Concise structure of components
- **Rigid and durability**
  - Double bearings, balanced counter weights and rigid rubber cushion



# 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

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

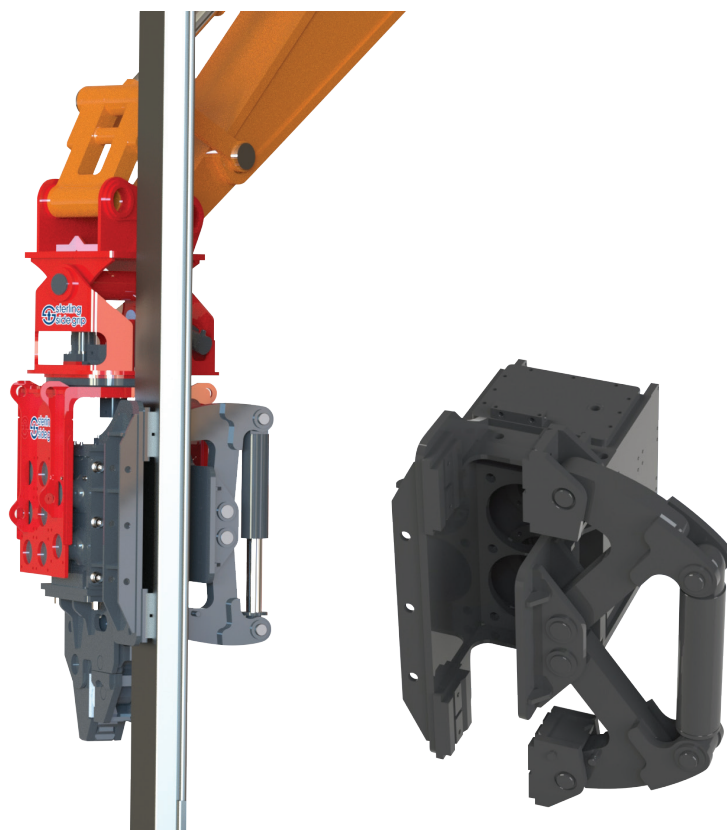


'W' shape clamp structure and balanced four pads allows firmly, precisely and accurately clamping all the time.



# 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	33-36ton	28-32ton	23-26ton	20-24ton	17-21ton
Pile size(length/weight)					
6m/2800kg	SG30W				
12m/1900kg					
16m/1300kg					
8m/2300kg		SG30W	SG25W	SG25W	
12m/1800kg					
16m/1200kg					
6m/1200kg					SG25W
8m/1000kg					
10m/900kg					
Suitable piles					
Sheet piles	width 400-1,200mm, depth 250mm				
H-beams	Max 250 x 250				

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

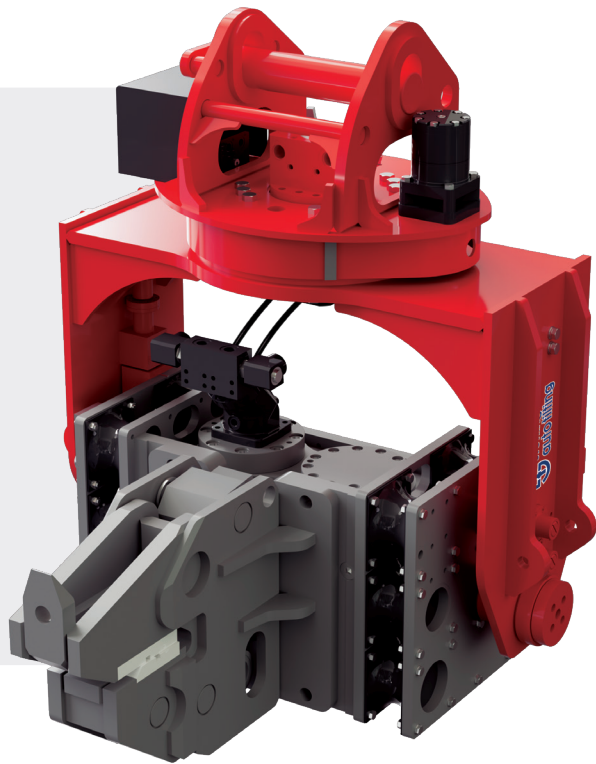
Model	Unit	SG25W	SG30W
Suitable Excavator	ton	17 ~ 26	22 ~ 36
Bottom Jaw open	mm	65	65
Side clamp open	mm	255	255
Max Pile Grip dia	mm	250	250

※ Specifications above are subject to change without notice.

# STERLING AUTO TILT HAMMER

## JOB APPLICATION

Significantly wider offering & 4 market segments enable further success



SEA SIDE



RIVER SIDE



SAND FIELD



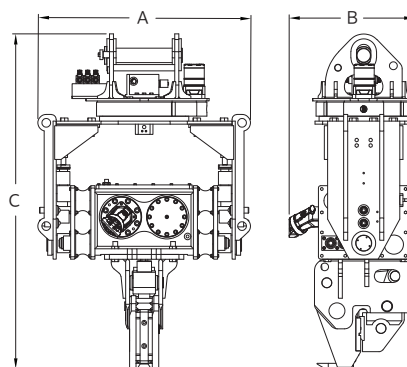
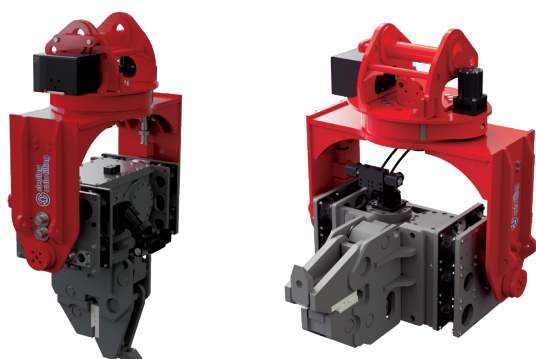
WITH AUGER





# STERLING AUTO TILT HAMMER

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



Model	Unit	SH25 TILT	SH30 TILT	SH40 TILT
Suitable Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Weight (Incl. Mounting Cap)	kg	1,620	1,910	2,250
Extension Boom Weight	kg	498	600	714
Setting Pressure	bar	250	250	280
Oil Flow	lpm	170 - 200	180 - 220	240 - 260
Centrifugal force	kN	520	610	700
Eccentric Moment	kgm	3.7	4.3	8.2
Frequency	bpm	2,800 ~ 3,600	2,800 ~ 3,600	2,200 ~ 2,800
Rotation	deg	360	360	360
Tilting degree	deg	90	90	90
Bottom Jaw open	mm	65	65	65
Dimension (A x B x C)	mm	1,326 x 711 x 2,089	1,326 x 805 x 2,089	1,435 x 900 x 2,180

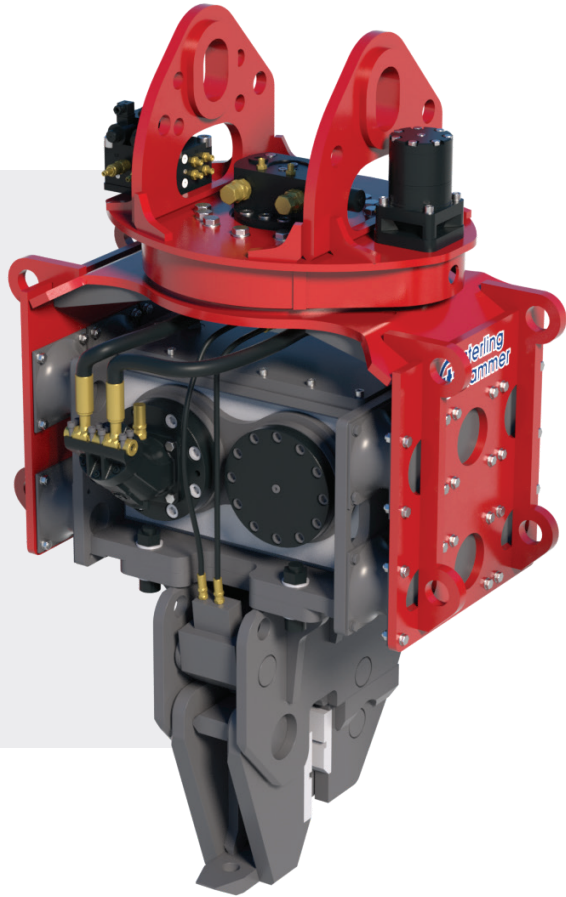
※ Specifications above are subject to change without notice.

## STRONG POINTS OF STERLING AUTO TILT HAMMER

- **More efficient and safer works**
  - 90-degree tilt / 360° hydraulic rotation function enable more efficient and safer 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 bearing 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

SEA SIDE



RIVER SIDE



SAND FIELD



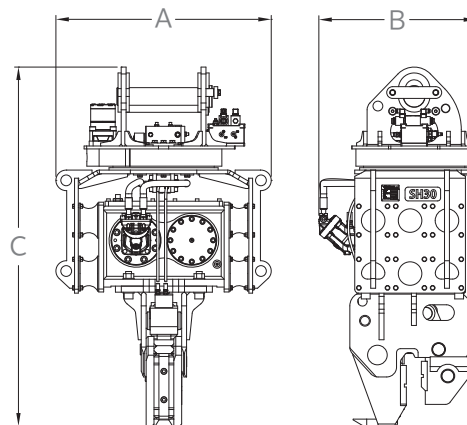
WITH AUGER





# STERLING HAMMER

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



Model	Unit	SH25	SH30	SH40
Suitable Excavator	ton	20 ~ 26	28 ~ 36	36 ~ 50
Weight (Incl. Mounting Cap)	kg	1,520	1,810	2,050
Extension Boom Weight	kg	498	600	714
Setting Pressure	bar	250	250	280
Oil Flow	lpm	170 - 200	180 - 220	240 - 260
Centrifugal force	kN	520	610	700
Eccentric Moment	kgm	3.7	4.3	8.2
Frequency	bpm	2,800 ~ 3,600	2,800 ~ 3,600	2,200 ~ 2,800
Rotation	deg	360	360	360
Bottom Jaw open	mm	65	65	65
Dimension (A x B x C)	mm	1,094 x 711 x 1,862	1,094 x 805 x 1,862	1,200 x 900 x 1,950

※ Specifications above are subject to change without notice.

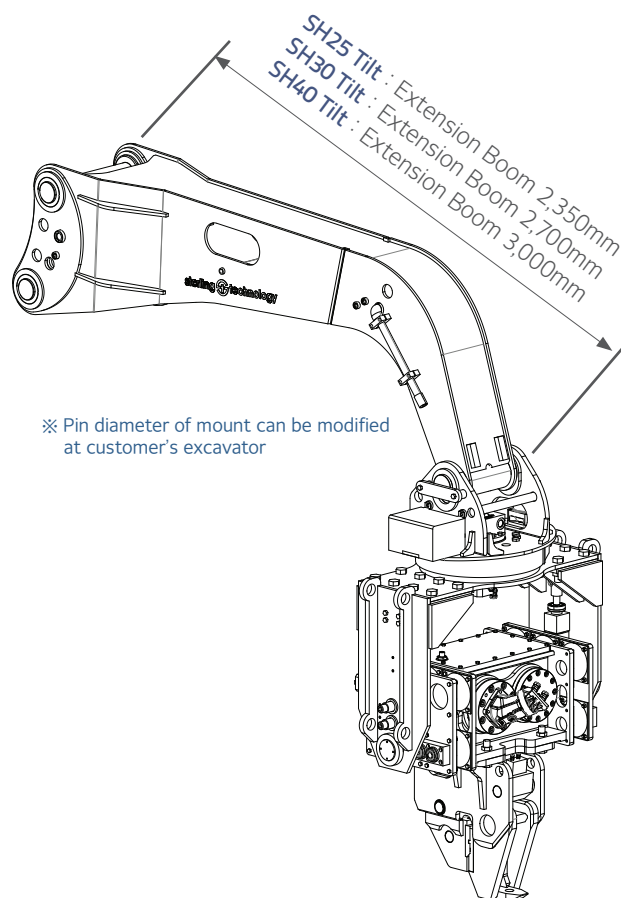
## STRONG POINTS OF STRELING HAMMER

- **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 durability**
  - Durable bearing structure and rigid rubber cushion
- **Easy installation & operation**
  - Concise operation electric kits



# STERLING AUTO TILT HAMMER STERLING HAMMER

WORKING RANGE - SH25 Tilt / SH30 Tilt / SH40 Tilt



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.



· STANDARD - SH25 Tilt : 8.5m / SH30 Tilt : 10.5m / SH40 Tilt : 11.5m  
· BOOM ADJUST - SH25 Tilt : 9.5m / SH30 Tilt : 11.5m / SH40 Tilt : 12.5m



## NOTE



DEMOLITION RECYCLING MINING QUARRY CIVIL INDUSTRIES



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At Boss, we are absolutely passionate about our products and the industries that we serve.

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