STARKE

HYDRAULIC IMPACT HAMMER

HHP12–HHP20

斯巴达
STARKE
HHP18
15
13
11
09
07
05
03
01

斯巴达
STARKE
EP300d

INTELLIGENT MANUFACTURER
OF PILING EQUIPMENT

Hydraulic Impact Hammer
STARKE 01
HHP12–HHP20

STARKE
Full of Might.

NO. 1 Market share
Domestic data

The **1st** Hydraulic hammer manfacture in China
Domestic data

Energy transfer rate

Up to **94%**

Striking Energy

can be adjusted arbitrarily

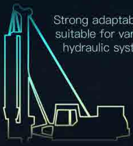
Longer service life than similar products

Up to **50%**

Patents

NO.1

Domestic data



Strong adaptability, suitable for various hydraulic systems

Hydraulic Impact Hammer

Hydraulic Cylinder

POWERFUL
DURABLE

Special process treatment,
hard texture,
reduces damage to piston rod surface

Durable & Strong

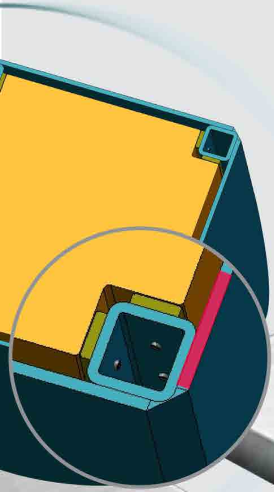
Pressure Bearing Capacity

Hydraulic Impact Hammer

Hammer Ram

Materials

**The material is solid.
The steel body
is thicker than that of its
competitors**



Power Source

30% higher than peers

30% lower than the power source
peer

High Strength
Forged Hammer Ram

High Efficient

Hydraulic Impact Hammer

Visual Operation Box

Accurate

The operation box allows precise control of the system pressure and number of striking blows,adjustment of stroke distances and display striking energy in real time

Information visualization

Hydraulic Impact Hammer

Piling Recorder (Optional)

Real-time Data Logging

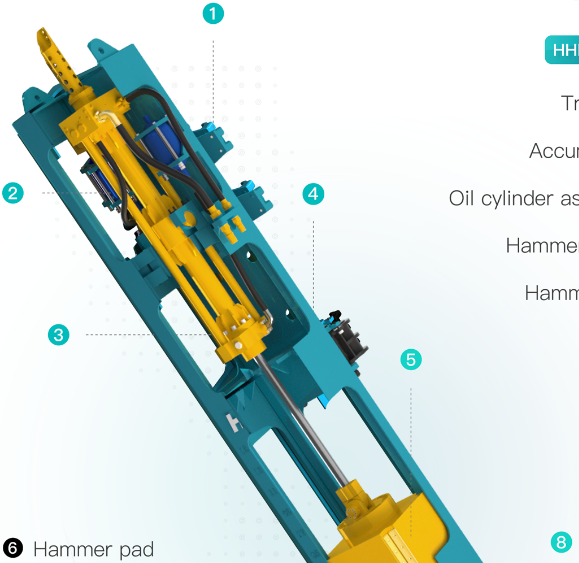
Construction company	
Project name	
Pile no.	6(example)
Pile length/m	100(example)
Single pile total/KJ	256.8(example)
Piling energy	45(example)
Initial depth/m	50.0(example)
Detection benchmark distance/m	0.5(example)

GDLY-JV
STARKE 斯巴达
打印机
GREEN SERIES
PWR
CPU
COM
Kinco

KOMATSU
PC 200
KOMATSU
KOMATSU
PC200

Precision all around.

Main Structure

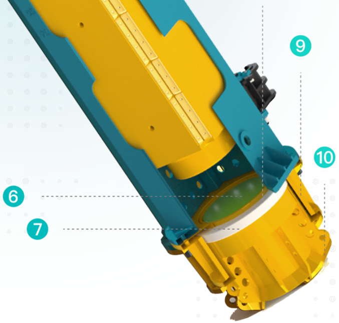


HHP12–HHP20

- Trip gear ❶
- Accumulator ❷
- Oil cylinder assembly ❸
- Hammer frame ❹
- Hammer ram ❺

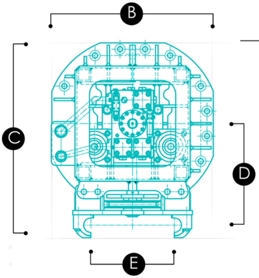
❻ Hammer pad

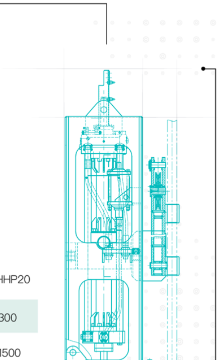
- ❼ Outer cushion
- ❽ Pile anvil
- ❾ Upper pile cap
- ❿ Lower pile cap



Hydraulic Impact Hammer

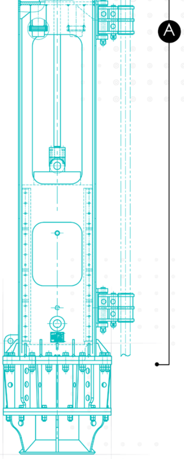
Technical Parameters





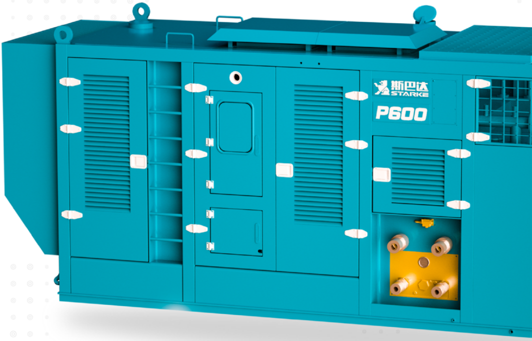
Hydraulic impact hammer model	UNIT	HHP12	HHP14	HHP16	HHP18	HHP20
Max strike energy	kJ	180	210	240	270	300
Max. stroke of hammer	mm	1500	1500	1500	1500	1500

Strike frequency(max./min)	bpm	80/36	80/32	80/34	80/32	80/32
Ram weight	kg	12000	14000	16000	18000	20000
Lifting hydraulic cylinder		Single Lifting Hydraulic Cylinder				
Ⓐ Height of hammer (without pile cap)	mm	7807	7777	7782	8212	8417
Ⓑ Horizontal width of hammer	mm	1175	1300	1300	1300	1440
Ⓒ Vertical height of hammer	mm	1410	1520	1540	1580	1670
Ⓓ Distance between center of hammer and guides	mm	740	780	800	930	860
Ⓔ Distance between center of guides	mm	600	600	600	600	600
Hammer weight (without pile cap)	kg	17600	20000	23760	25400	28500
Trip gear weight	kg	630	630	690	690	690
Recommended diesel engine power pack model		P325	P325	P550	P550	P600
Recommended electric power pack model		EP300	EP300	EP300	EP300	EP350



Hydraulic Impact Hammer

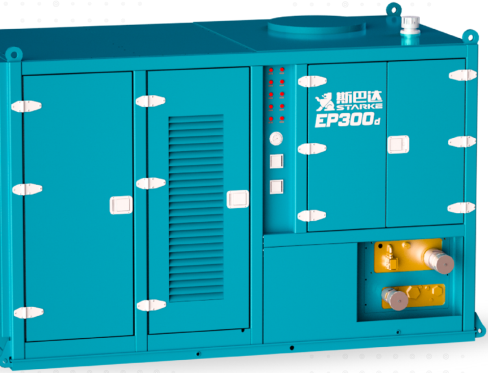
Optional Power Packs



Diesel engine power pack

Power pack model	P325	P550	P600	P600
Brand of engine	Cummins C325	Cummins QSZ13-C550-30	Cummins QSX15	CAT-C15
Power of engine	239 kW/1800 rpm	410 kW/1800 rpm	447 kW/2000 rpm	403 kW/2000 rpm
Rated pressure	26 Mpa	26 Mpa	26 Mpa	26 Mpa
Max.flow	380 L/min	530 L/min	760 L/min	760 L/min

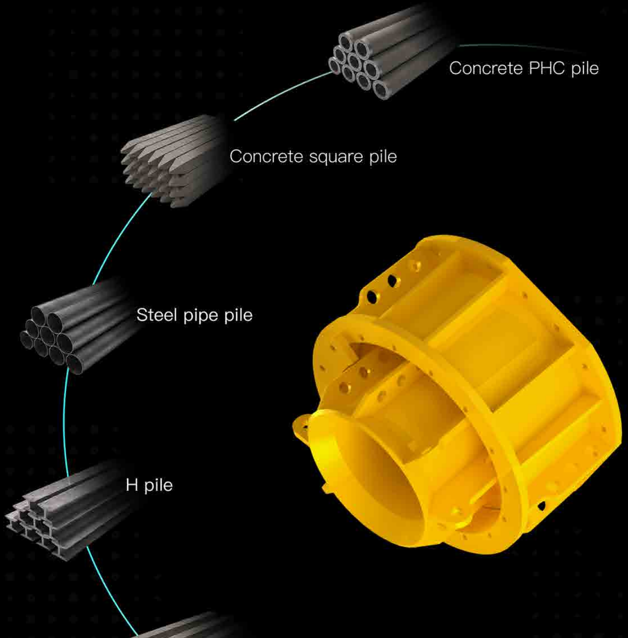
Hydraulic oil tank	1850 L	1725 L	1725 L	1725 L
Diesel oil tank	550 L	770 L	770 L	770 L
Overall size(L*W*H)	4375*1800*2200 mm	4628*18768*2245 mm	4628*1876*2245 mm	4628*1876*2245 mm
Power pack weight	5250 kg	7400 kg	7400 kg	7400 kg



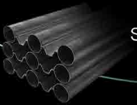
Electric power pack

Power pack model	EP 300	EP 300
Maximum flow	636 L	754 L
Motor power	90*2+45 kW	90*3 kW
Hydraulic tank	1530 L	1530 L
Overall size(L*W*H)	3110*1570*1958 mm	3580*1700*2140 mm
Net mass of power station	6750 kg	6920 kg

Strong Adaptability.



Concrete U shaped pile


Steel inter-lock pile

Applicapable Pile Types

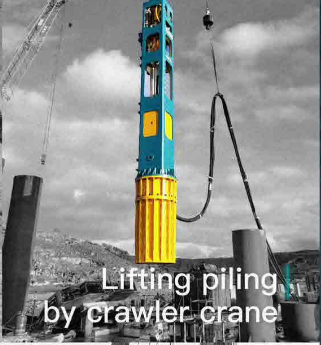
*Pile caps can be customized according to the actual needs of customers.

Hydraulic Impact Hammer

Matching Piling Method

Foot-step piling rig

+ Hydraulic impact hammer

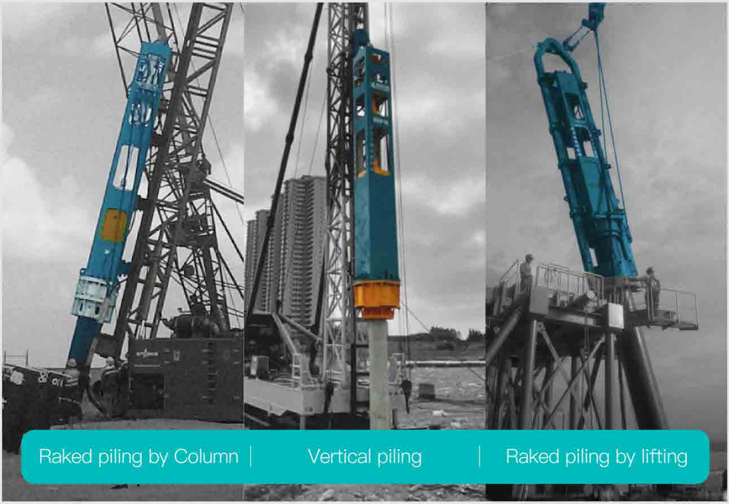


Lifting piling by crawler crane

Column +Hydraulic impact hammer

Crawler piling rig + Hydraulic impact hammer

Suitable Piling Method



Raked piling by Column | Vertical piling | Raked piling by lifting

Hydraulic Impact Hammer

Construction Cases

Global Construction

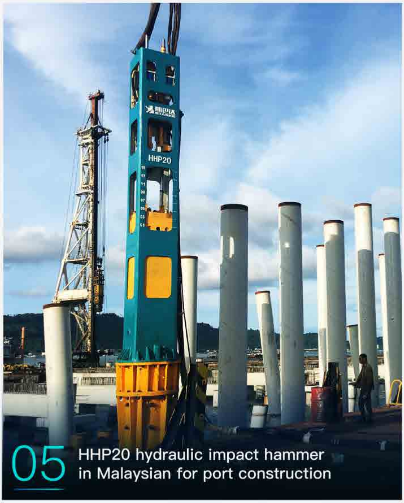
宝庆建设 13607794518

01 HHP18 hydraulic impact hammer in domestic real estate project

02 HHP20 hydraulic impact hammer Vietnam for port construction

03 HHP16 hydraulic impact hammer in Saudi Arabia

04 HHP14 hydraulic impact hammer in East Timor



05 HHP20 hydraulic impact hammer in Malaysian for port construction

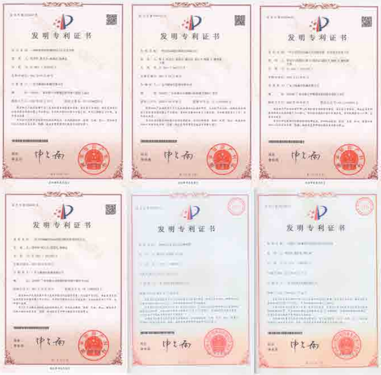
06 HHP16 hydraulic impact hammer in Brunei for bridge construction

07 HHP20 hydraulic impact hammer in Indonesian for port constrution

08 HHP20 hydraulic impact hammer Russia for port constrution

Higlight the remarkebles.

Outstanding achievements



发明专利证书

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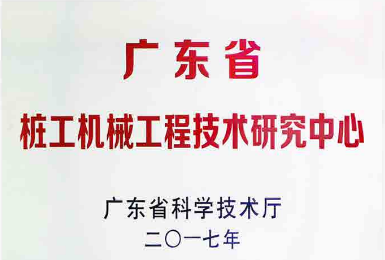
01

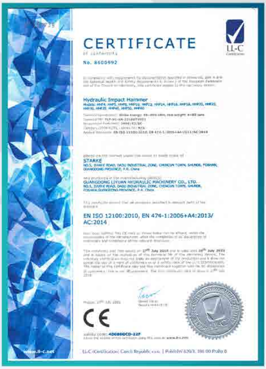
02



广东省

桩工机械工程技术研究中心

广东省科学技术厅
二〇一七年



CERTIFICATE
of conformity

No. 8600992

Hydraulic Impact Hammer
Models: HHP4, HHP5, HHP8, HHP10, HHP12, HHP14, HHP16, HHP18, HHP20, HHP25, HHP30, HHP35, HHP40, HHP50, HHP60

STARKE
NO.5, JIANYE ROAD, DADU INDUSTRIAL ZONE, CHENCUN TOWN, SHUNDE, FOSHAN, GUANGDONG PROVINCE, P.R. China

GUANGDONG LIYUAN HYDRAULIC MACHINERY CO., LTD.
NO.5, JIANYE ROAD, DADU INDUSTRIAL ZONE, CHENCUN TOWN, SHUNDE, FOSHAN, GUANGDONG PROVINCE, P.R. China

EN ISO 12100:2010, EN 474-1:2006+A4:2013/AC:2014

validity code: 4D0800CD-22F

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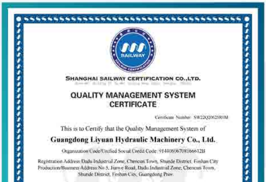
LL-C (Certification) Czech Republic s.r.o. | Polířežní 620/3, 186 00 Praha 8

03

04



SHANGHAI SAILWAY CERTIFICATION CO.,LTD.

QUALITY MANAGEMENT SYSTEM
CERTIFICATE

Certificate Number: SW22Q20625R0M

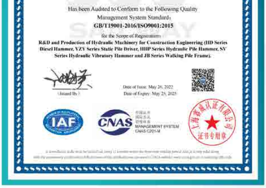
This is to Certify that the Quality Management System of

Guangdong Liyuan Hydraulic Machinery Co., Ltd.

Organization Code/Unified Social Credit Code: 91440606708166612B

Registration Address:Dadu Industrial Zone, Chencun Town, Shunde District, Foshan City
Production/Business Address:No.5, Jianye Road, Dadu Industrial Zone, Chencun Town, Shunde District, Foshan City, Guangdong Prov.

Patent 01
Piling Equipment Engineering Research Center of Guangdong,China 02
CE Certificate 03
ISO 9001 Certificate 04



Has Been Audited to Conform to the Following Quality
Management System Standard:
GB/T19001-2016/ISO9001:2015
for the Scope of Registration:
R&D and Production of Hydraulic Machinery for Construction Engineering (HD Series Diesel Hammer, YZY Series Static Pile Driver, HHP Series Hydraulic Pile Hammer, SV Series Hydraulic Vibratory Hammer and JB Series Walking Pile Frame).

(Issued By)

Date of Issue: May 26, 2022
Date of Expiry: May 25, 2025

MANAGEMENT SYSTEM
CNAS C201-M

About Us

Established in 1993, STARKE is China's leading piling equipment manufacturer. We provide high quality piling machine for all kinds of foundation projects, capable from custom design to after-sales services, offering total solutions for customers.

Our main products include: diesel pile hammers; hydraulic impact hammers; hydraulic vibratory hammers; static pile pressing machines; hydraulic crawler piling rigs; foot-step piling rigs and rock breakers.

For 30 years we did not stop our foot step on innovation. Improving product quality and customer service is our key purpose. Not only we are the market leader for piling hammers in China, our products have also been well sold in international market, with over 30 countries already using STARKE's equipment, throughout North & South America, the Southeast Asia counties, the Middle East countries, Africa and to Europe.

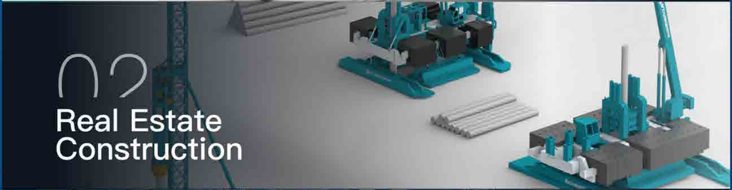
We have obtained the ISO9001 certificate in 2000 and CE certificate for diesel hammers and hydraulic impact hammers.

Hydraulic Impact Hammer

Product Category

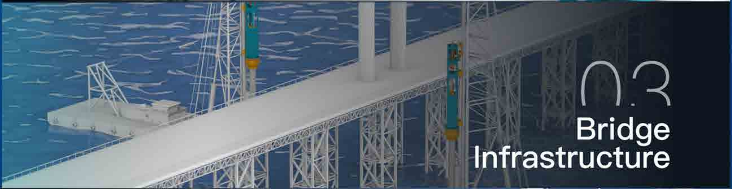
01

Municipal Construction



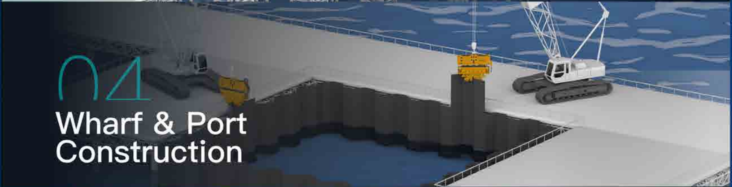
02

Real Estate Construction



03

Bridge Infrastructure



04

Wharf & Port Construction

05 Wind Power

06 Mine

STARKE
RHP18

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