

**STRIVE TO BE THE BEST**

– UNIMATE MOTTO



**Drillmaster Engineering Technology Co.,Ltd**

Headquarters: Depu, Wuhe Enterprise Zone, Changsha, China

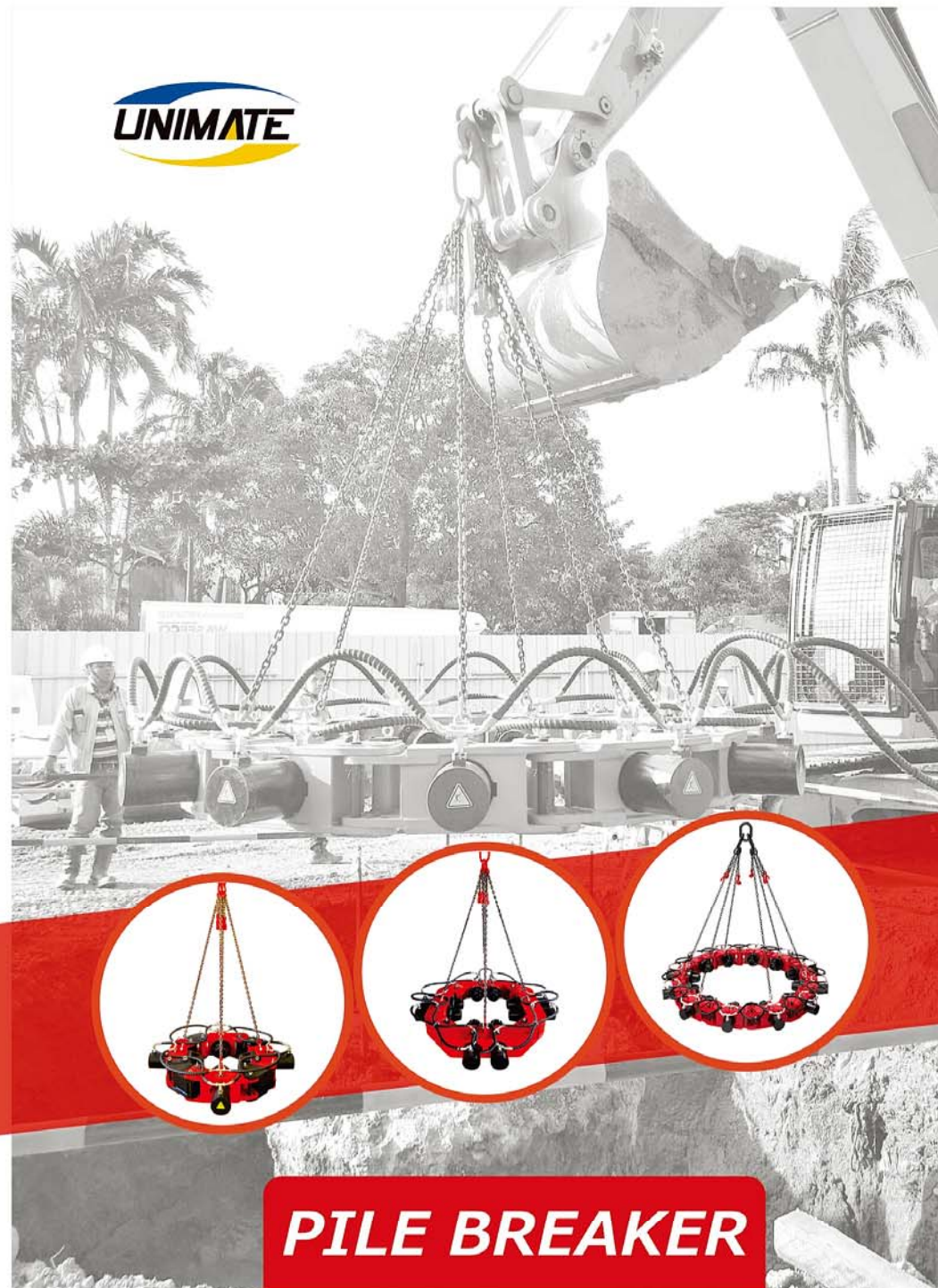
Tel: 86-731-84030163

E-mail: [info@drillmastergroup.com](mailto:info@drillmastergroup.com)

[www.drillmastergroup.com](http://www.drillmastergroup.com)



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## Company profile



Hunan Drillmaster Engineering Technology Co., Ltd. is a leading solution provider for foundation engineering. As the main enterprise entity, Drillmaster has three subsidiary companies respectively undertaking functions of fabrication and R&D.

DRILLMASTER's main products include: pile breaker, kelly bars, drilling buckets & augers, drilling bits, casings, tremie pipe, desander and casing rotator etc. We have two brands "Unimate" and "Unidril", and our pile breaker brand is "Unimate".

"UNIMATE" workshop produces square and round pile breakers, it adopts flexible design, which is easy to install and operate, and can cut a wide range of piles. The optimized

design brings the pile breaker high work efficiency, as well as long service life and low maintenance cost, which has been very popular in the market.

Improving the foundation construction technology as our mission, and by depending on a group of excellent R&D teams with years of experience in foundation engineering and construction design, our drilling bits have reached in advanced level in terms of technology and quality in China.

Now, our drilling bits have been exported to over 60 countries and regions such as the U. S, the European countries, South Asia, Australia, Middle East, etc.

## Why you need a pile breaker ?

Easy operation,  
high efficiency

High safety and reliability



No harm to the pile body  
(no vibration)

Environmental friendly  
Low noise, dust free

**Pile breaker is a special tool to break the ground head concrete of foundation pile.**





## Unimate offers two types of pile breaker

\* Round type

\* Square type

### Round type

#### Technical parameters

#### ► Model SP800



Model	SP800
Range of Pile diameter (mm)	Φ500-Φ2500
Maximum stroke of hydraulic cylinder	205mm
Maximum pressure hydraulic cylinder	34.3Mpa
Maximum flow Single cylinder	25L/mim
Cut the number of pile/8h	20-100
Height for cut pile each time	≤200mm-300mm
Supporting the digging machine Tonnage ( excvator )	20t - 46t
One-piece module weight	381kg
One-piece module size	908×780×400
Work status dimensions	2060*2060*2500
Total pile breaker weight	6.4t

#### ► SP 800 Parameter

Module numbers	The diameter range (mm)	Excavator Size (tons)	Weight(kg)	Height of single crush pile(mm)
6	500-600	20	2400	200-300
7	650-800	22	2800	200-300
8	850-1000	26	3200	200-300
9	950-1200	27	3600	200-300
10	1150-1400	30	4000	200-300
11	1350-1600	32	4400	200-300
13	1650-1800	35	5200	200-300
14	1850-2100	35	5600	200-300
15	2050-2300	40	6000	200-300
16	2250-2500	46	6400	200-300

### Square type

#### Technical parameters

#### ► Model SP500 Heavy Duty



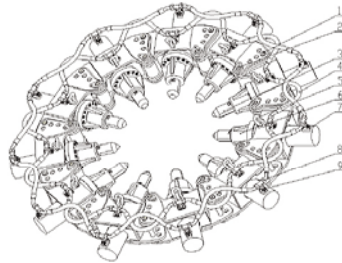
Model	SP500 Heavy Duty
Range of Pile diameter (mm)	250-500mm
Maximum Drill rod pressure	320t
Maximum stroke of hydraulic cylinder	205mm
Maximum pressure hydraulic cylinder	34.3Mpa
Maximum flow Single cylinder	25L/mim
Cut the number of pile/8h	100-120
Height for cut pile each time	≤200mm
Supporting the digging machine Tonnage ( excvator )	≥15t
One-piece module weight	200kg
One-piece module size	595*980*275
Work status dimensions	1710*1710*2500
Total pile breaker weight	2t

#### ► Model SP600-8 Heavy Duty



Model	SP600-8 Heavy Duty
Range of Pile diameter (mm)	600-800mm
Maximum Drill rod pressure	640t
Maximum stroke of hydraulic cylinder	205mm
Maximum pressure hydraulic cylinder	34.3Mpa
Maximum flow Single cylinder	25L/mim
Cut the number of pile/8h	20-50
Height for cut pile each time	≤200mm
Supporting the digging machine Tonnage ( excvator )	≥26t
One-piece module weight	700kg
Work status dimensions	2080*2080*396
Total pile breaker weight	3.2t

## Parts Name



- 1- Small Bolt 小销轴
- 2- Bolt 销轴
- 3- Breaker Rod 钎杆
- 4- High Pressure Hose 高压胶管
- 5- Bow Shaped Buckles 弓形卸扣
- 6- Guiding Flange 导向法兰
- 7- Cylinder 油缸
- 8- Hydraulic Tee 液压三通
- 9- Hydraulic Joint 液压接头

## Conversion of Square and Round Pile Breaker ( SP500 converted to SP800)



Remove all large  
and small bolts as  
shown

Remove 4  
connecting  
blocks

Add several  
modules to form  
round piles with  
different sizes

## Hydraulic Power of Pile Breaker

### Option1:

Excavator provides hydraulic power



### Option2:

Unimate power pack provides  
hydraulic power



# DRILLMASTER

## Headquarters

**Drillmaster Engineering Technology Co.,Ltd**

More than a drilling tools supplier, Drillmaster is a leading solution provider for foundation engineering. With decades of years' experience in the R&D, fabrication and sales of piling equipments: pile breaker, casing rotator, oscillator, drill bits, etc., Drillmaster has established a complete factory production system. Unimate, Unidrill and Fountech are subsidiaries of Drillmaster, respectively responsible for the R&D and production of different foundation engineering products.

UNIMATE

### Unimate Heavy Industry Co.,Ltd

With factory in Wuhan, China, 10 years of production experience, specializes in the production of drilling tools, casings and drilling accessories as well as the rent of drill rig and sales of used drill rig.

UNIDRILL

### Unidrill Technology Co.,Ltd

Factories are located in Hebei and Wuhan respectively, mainly responsible for the production of Kelly Bars, Drill Tools and Desander, well known by its strict quality control.

FOUNTECH

### Fountech Construction Machinery Co.,Ltd

With factory in Jiangsu, China, mainly responsible for the production and sales of micro drill rig and used drill rig.