

# 郑州高德机械设备有限公司

Gaode Equipment Co., Ltd.

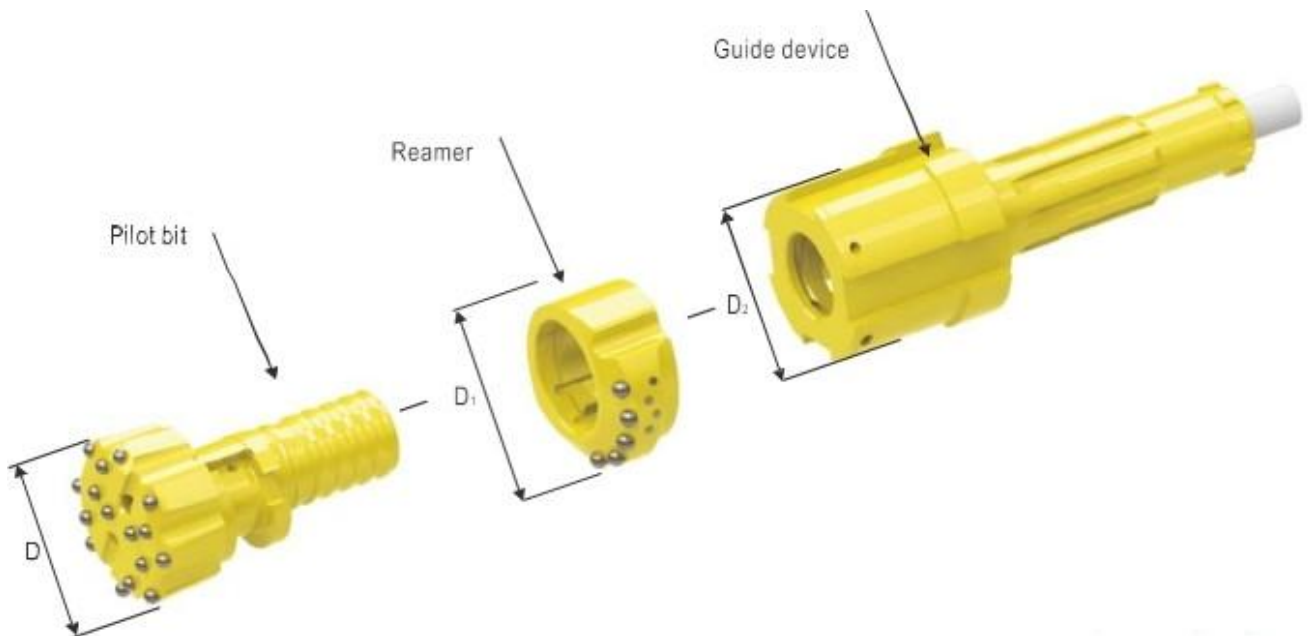
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## Eccentric Drilling Tools with casing tube

Eccentric casing drilling system is today's preferred method for drilling in difficult ground conditions, for example, where there are boulders or loose formations.

Eccentric casing drilling system is the most economical solutions because its ingenious reaming wing the bit is retrievable can be used at the next hole. This is particularly design for shallow holes, as is often the case in water well drilling, geothermal wells and for shallow micro-piling work. EDS is ideal for short holes in consolidated overburden.

The component of Eccentric system consists of Pilot bits, Reamer bits, Guide device and casing shoe.

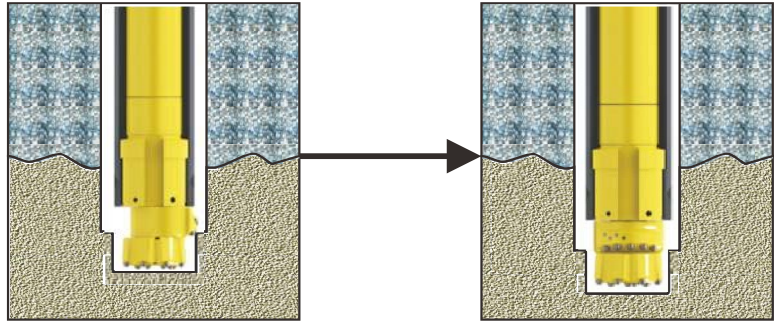
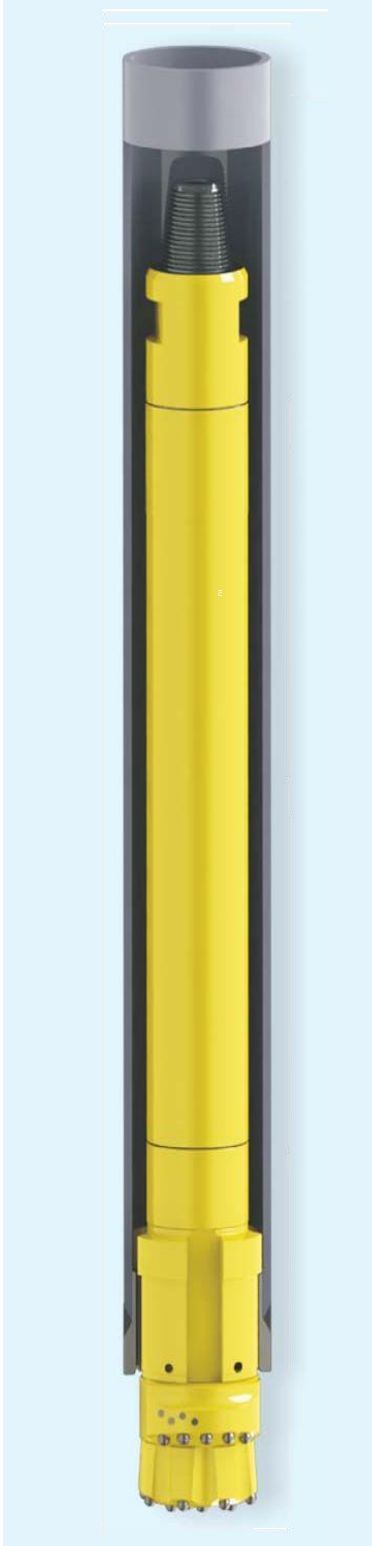


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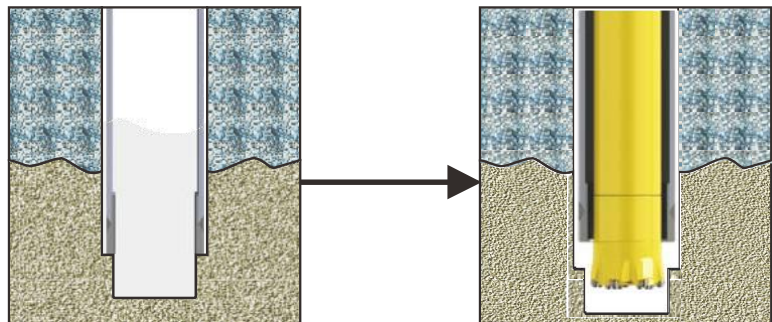
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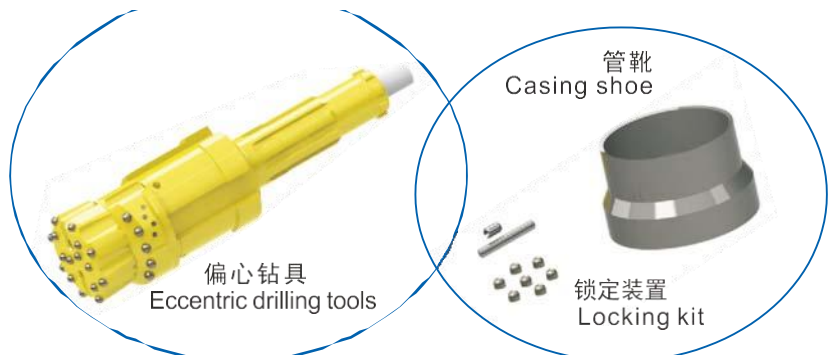
### Eccentric Drilling tools with casing tube step-by-step



1. When drilling, the PGZ reamer swings out and drills a hole wide enough for the casing tube to slide down behind the reamer
2. When required depth is reached, the drill is reversed and the reamer swings in, allowing the bit to pass through the casing.



4. Casing tube is pulled out directly or fixed at the bottom of the hole by means of cement grout or other agglutinant.
5. Drilling continues to the desired depth using conventional DTH equipment.



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| 总成代号<br>Assembly Code | 套管<br>Casing tube          |                                | 偏心扩<br>孔直径<br>Max<br>Reaming dia.<br>D <sub>1</sub><br>(mm) | 导向钻头<br>直径<br>Pilot bit<br>dia.<br>D<br>(mm) | 导向器<br>Guide<br>device<br>D <sub>2</sub><br>(mm) | 尾柄型号<br>shank<br>style |
|-----------------------|----------------------------|--------------------------------|---|--|--|------------------------|
|                       | 外径<br>Outside dia.<br>(mm) | 最大壁厚<br>Wall thickness<br>(mm) |   |  |  |                        |
| PGZ82-3.5-108/6       | 108                        | 6                              | 116   | 82   | 94   | DHD3.5                 |
| PGZ90-3.5-114/6       | 114                        | 6                              | 123   | 90   | 100  | DHD3.5                 |
| PGZ115-340-142/7      | 142                        | 7                              | 151   | 115  | 126  | DHD340A                |
| PGZ115-340-146/7.5    | 146                        | 7.5                            | 155   | 115  | 128  | DHD340A                |
| PGZ140-350-168/8      | 168                        | 8                              | 189   | 140  | 149  | DHD350R                |
| PGZ140-350-178/9      | 178                        | 9                              | 192   | 144  | 156  | DHD350R                |
| PGZ149-350-183/10     | 183                        | 10                             | 197   | 149  | 161  | DHD350R                |
| PGZ165-360-195/6.5    | 195                        | 6.5                            | 211   | 165  | 179  | DHD360                 |
| PGZ180-360-219/12.5   | 219                        | 12.5                           | 232   | 179  | 191  | DHD360                 |
| PGZ190-360-219/7      | 219                        | 7                              | 236   | 190  | 203  | DHD360                 |
| PGZ230-380-273/11.5   | 273                        | 11.5                           | 286   | 228  | 247  | DHD380                 |
| PGZ240-380-273/6.5    | 273                        | 6.5                            | 308   | 240  | 257  | DHD380                 |

(The data of all the performance parameters are based on ideal working conditions, the company reserves the right to modify parameters)

(本资料所有性能参数均基于理想的工作条件, 公司保留修改参数的权利)