

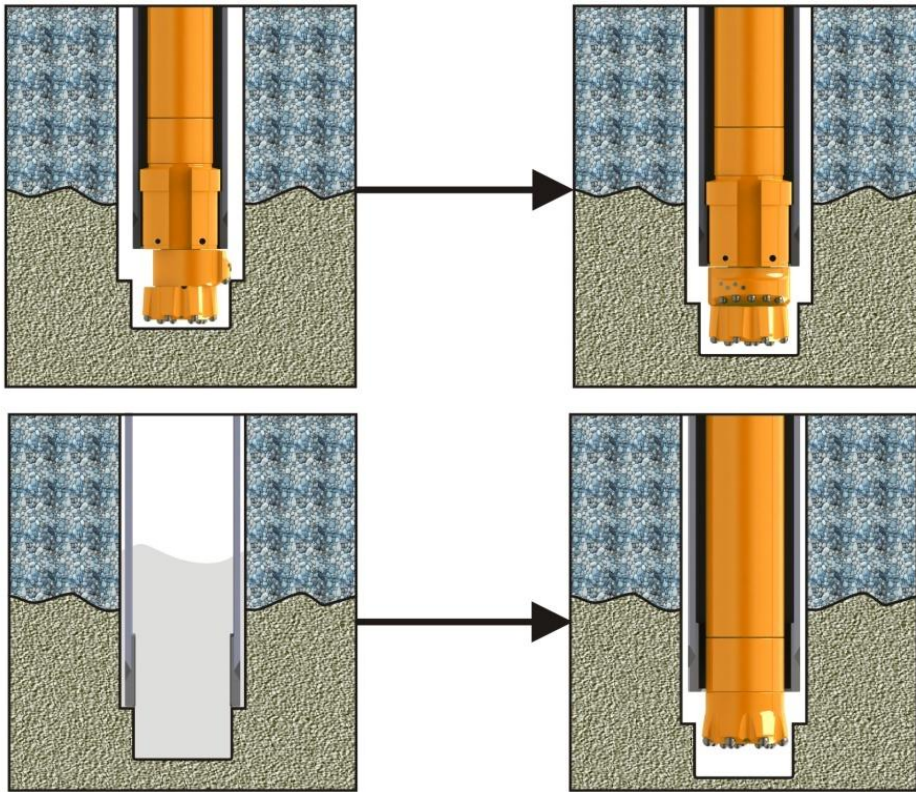
# Casing Drilling System

Guizhou Sinodrills Equipment Co.,LTD.



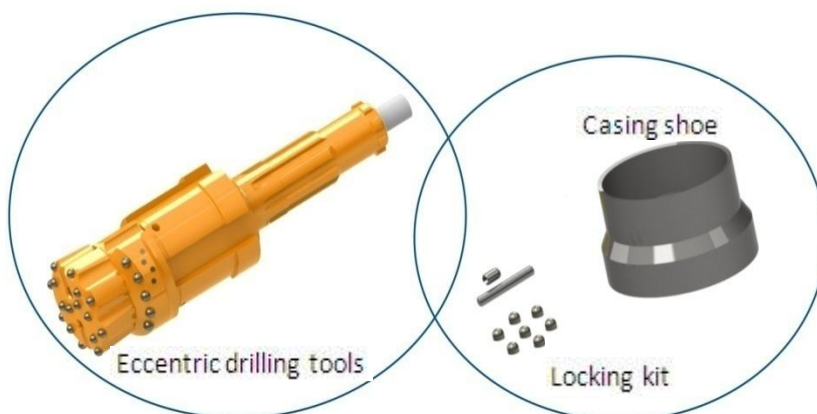


## GSE Eccentric Drilling System for casing drilling



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

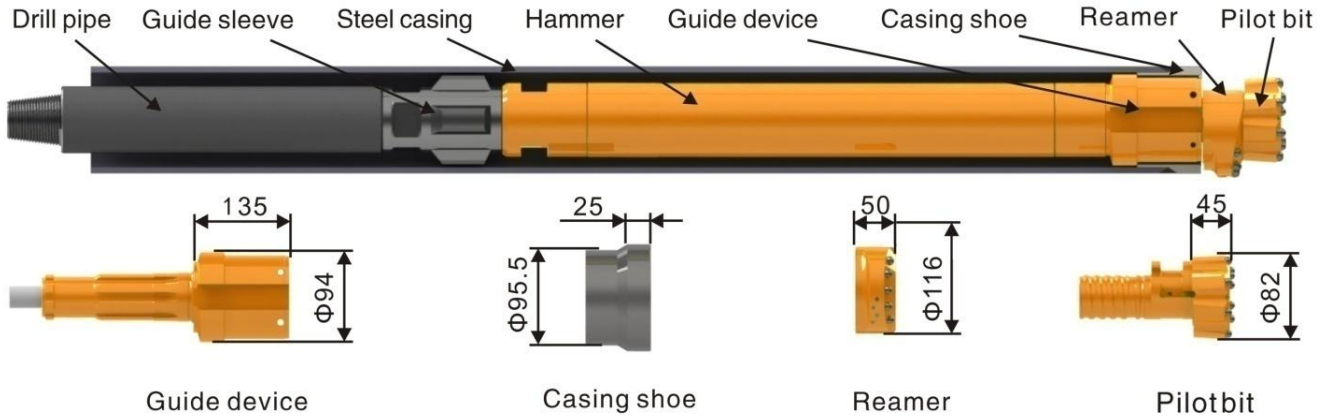
1. When drilling starts, the reamer swings out and drills a hole wide enough for the casing shoe and casing tube to slide down behind the drill bit assembly.
2. When the required depth is reached, rotation is reversed carefully, whereupon the reamer swings in, allowing the drill bit assembly to be pulled up through the casing tube.
3. Casing tubes that are to be left in the hole should be sealed at the bottom of the hole by means of cement grout or some other sealing agent.
4. Drilling continues to the desired depth in the bedrock using a conventional drill string...



## GSE-EDS82 Eccentric Drilling system



**Assembly Code:**

**EDS82-3.5-108/6**



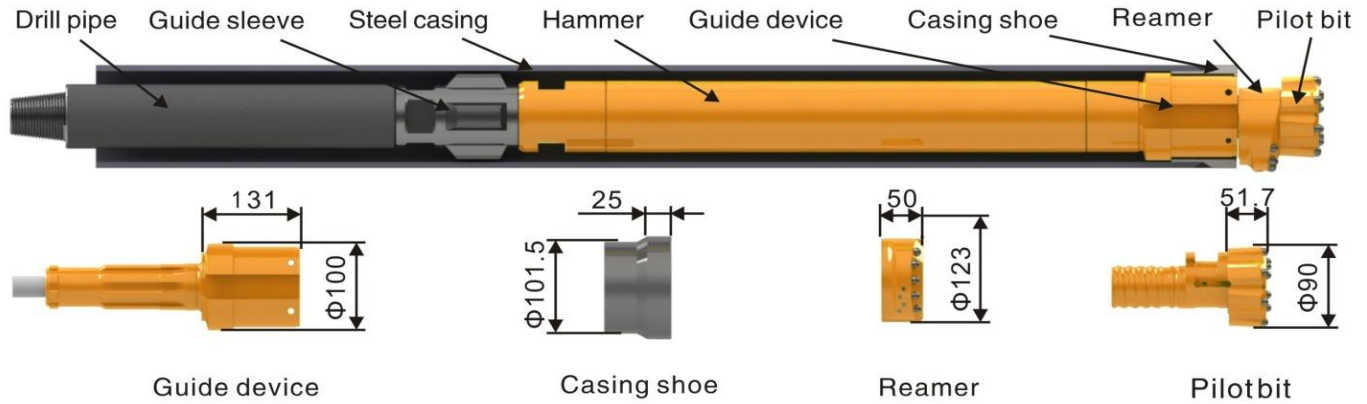
Alternative casings may be used:

Maximum outside diameter.....	108mm
Minimum inside diameter.....	96mm
Wall thickness .....	6mm

Description	Weight(kg)	Part NO.	
EDS82-3.5-108/6 shank for IR3.5 hammer (other shanks are optional)			
Guide device .....	6.20	GD823.5	
Casing shoe .....	0.80	CS82	
Eccentric reamer .....	1.00	ER82116	
Pilot bit .....	3.00	PB82	
Guide sleeve API 2 3/8" REG			
Wrench flat 65mm 	5.80	GS82	
Guide device locking kit consist of following: 2 pilot bit pins, 2 self-locking spring pins and 8 locking balls, one pusher for pilot bit pin and spring pin.			
A Pilot bit pin.....( $\phi 10 \times 51\text{mm}$ )	1 piece	0.02	EDS82-01
B Self-locking spring pin.....( $\phi 11 \times 15\text{mm}$ )	1 piece	0.02	EDS82-02
C Pusher for pilot bit pin.....( $\phi 7.8 \times 140\text{mm}$ )	1 piece	0.04	EDS82-03
D Locking ball.....( $\phi 9.5\text{mm}$ )	1 piece	0.01	EDS82-04
			

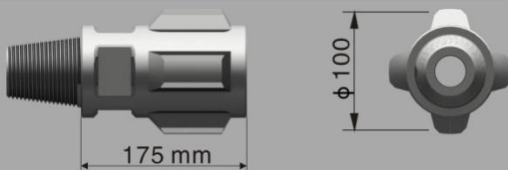

## GSE-EDS90 Eccentric Drilling system

**Assembly Code: EDS90-3.5-114/6**



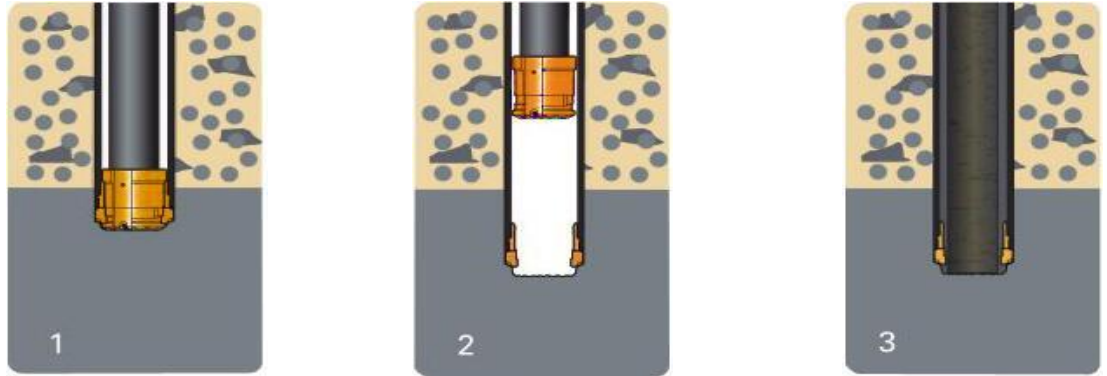
Alternative casings may be used:

Maximum outside diameter.....	115mm
Minimum inside diameter.....	102mm
Wall thickness .....	6mm

Description	Weight(kg)	Part NO.	
EDS90-3.5-114/6 shank for DHD3.5 hammer (other shanks are optional)			
Guide device .....	7.80	GD903.5	
Casing shoe .....	1.10	CS90	
Eccentric reamer .....	1.30	ER90123	
Pilot bit .....	3.60	PB90	
Guide sleeve API 2 3/8" REG			
Wrench flat 65mm 	5.80	GS90	
Guide device locking kit consist of following: 2 pilot bit pins, 2 self-locking spring pins and 8 locking balls, one pusher for pilot bit pin and spring pin.			
A Pilot bit pin.....(Φ 10× 51mm)	1 piece	0.02	EDS90-01
B Self-locking spring pin.....(Φ 11× 15mm)	1 piece	0.02	EDS90-02
C Pusher for pilot bit pin.....(Φ 7.8× 140mm)	1 piece	0.04	EDS90-03
D Locking ball.....(Φ 9.5mm)	1 piece	0.01	EDS90-04
			

## GSE Symmetric Drilling System for casing drilling

### Permanent

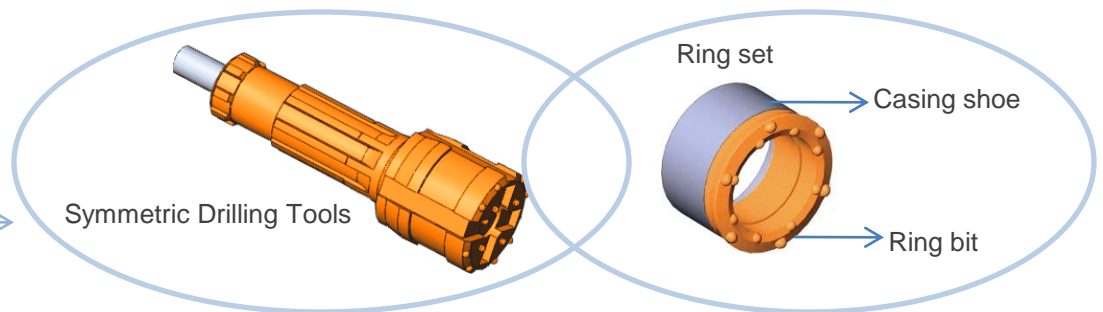
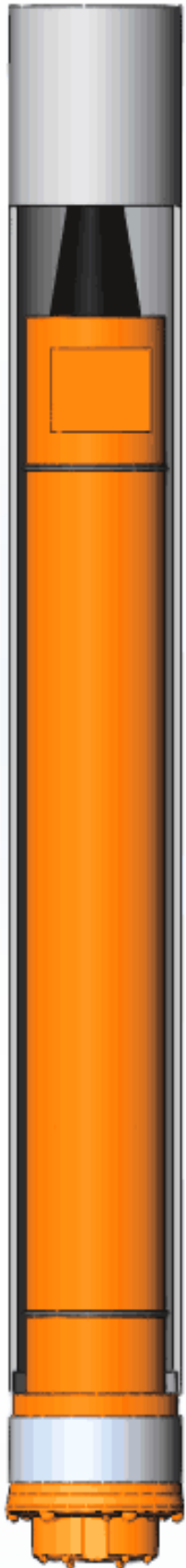


1. When start drilling, the central bit drives the ring set to drill a hole wide enough for casing tube to slide down..
2. When arriving the bedrock, reverse rotation of the tools and pull out the central bit from the hole, leaving ring set in the hole.
3. Poured concrete and proceed to the next steps.

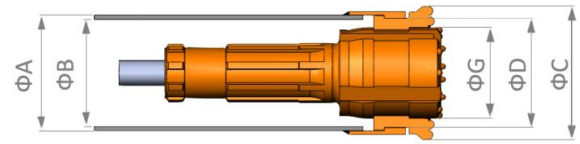
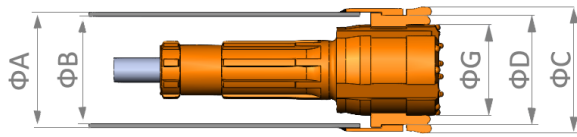
### Retrievable



1. When start drilling, the central bit drives the ring set to drill a hole wide enough for casing tube to slide down.
2. When arriving the bedrock, reverse rotation of the drill string and pull out the central bit from the hole.
3. Pull the casing tube out with the ring set while pouring concrete.







**Retrievable**

**Permanent**

A	B	C	D	G	E
Outer Dia. Of Casing Tube (mm)	Inner Dia. of Casing Tube (mm)	Reamed Dia. (mm)	Min. Inner Dia. of Casing Shoe (mm)	Max. Outer Dia. of Normal Bit (mm)	Suitable hammer (inches)
108	93-99	118	86	77	3.5"
114	101-103	127	91	82	3.5"
127	114-116	136	101	92	3.5"
140	124-127	152	117	105	4"
146	127-132	154	117	105	4"
168	149-155	184	140	125	5"
178	159-165	194	150	140	5"
193	173-180	206	164	150	6"
219	199-206	234	184	165	6"
244	224-231	260	210	190	6" or 8"
273	251-257	305	240	220	8"
323	301-310	348	284	255	8"
355	330-343	380	326	308	8" or 10"
406	382-388	440	364	340	10" or 12"
457	433-439	488	413	385	12"
508	484-490	538	464	440	12"
558	534-540	590	514	485	12" or 18"
610	586-592	642	566	540	12" or 18"
660	636-642	694	615	590	18"
711	687-693	745	665	640	18"
762	738-744	798	716	685	18"
863	839-845	900	815	785	18"

**Order Guide: A+B+C+D+G . (C, D and G can be changed as per customer request.)**

**For more products information, please contact with us**

jack@sinodrills.com

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We drill in 82 countries



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