



上海金泰工程机械有限公司  
SHANGHAI JINTAI ENGINEERING MACHINERY CO.,LTD

**GD** | 系列大口径全液压动力头钻机  
GD series Large Diameter Hydraulic Driven Drilling Rig

## GD系列大口径全液压动力头钻机

GD series Large Diameter Hydraulic Driven Drilling Rig

我公司成功开发了大口径液压动力头钻机，采用德国大口径液压动力头钻机技术，具有破岩能力强、作业效率高、操作安全、可靠、方便。在岩石硬度 $<100\text{MPa}$ 时，可直接钻进 $\phi 3500\text{mm}$ 孔。在一般覆盖层中，钻孔能力可达 $\phi 6000\text{mm}$ 。可用于重大工程中的大口径基础孔以及复杂地层中的基础孔施工。

Lately we developed a new type of hydraulic driven drilling rig of large diameters, upon which the advanced German technology of large diameter, hydraulic-driven drilling rigs is practiced. The newly developed machine features an outstanding piling capacity, high efficiency, safe operation facilities, dependable character, and convenient design. The piling is able to drill holes of  $\phi 3500\text{mm}$  in diameter when the earth rigidity falls below  $100\text{Mpa}$ . Under usual conditions, the piling can be up to  $\phi 6000\text{mm}$  in diameter. The rigs serve for the fundamental piling of large diameters in big fundamental construction projects or complicated earth environment.



### 先进技术：

- ☆ 全液压无级变速。减少钻杆和钻具冲击损伤。
- ☆ 采用PLC技术，使钻机机电液一体化，进尺速度优先，实现自动钻进。
- ☆ 采用先进的钻孔监视设备、记录仪，使钻进情况一目了然，并设有报警装置。
- ☆ 新颖、精练的驾驶室设计，视野开阔、操作舒适、方便，充分考虑到以人为本的设计理念。
- ☆ 可倾斜动力头，实现快速拆装钻杆。
- ☆ 悬挂式动力头和可倾斜机架，快速提放钻具及钻杆。

The advanced technology:

- ☆ To reduce the impact damage to the bars and drilling tools by means of being wholly hydraulic driven , and of infinite variable speeds.
- ☆ Automatically driven with an outstanding speed through an intelligence system by the practicing of PLC technology.
- ☆ Monitors and recorders of advanced technology installed to supervise the operation; alarm system installed.
- ☆ New, compact cab presenting a broad view, comfortable and convenient working environment, designed out of the consideration for the comfort of the operator.
- ☆ Movable rotary drive to enable fast dissembling of the drilling bars
- ☆ Movable steel frame and the swing-style rotary drive enable fast lifting the drilling bars and tools

钻机型号 Model of drilling rig		GD-25	GD-30	GD-35	GD-40	
机架 MAIN FRAME	钻径 DIAMETER(m)	2.5	3.0	3.5	4.0	
	钻深 DEEP(m)	150	150	150	150	
	最大提升力 PULL-UP MAX(t)	120	150	160	200	
	导向架倾角 FRAME INCLINING(°)	30	30	30	30	
	动力头倾角 SWIVEL INCLINING(°)	45	45	45	45	
	钻杆吊机 JIB CRANE(t)	1.2	1.5	1.5	1.5	
动力头 POWER SWIVEL	动力头行程 CYLINDER(mm)	3600	3600	3600	3600	
	轻载 LIGHT	转速 SPEED(r/min)	4-20	4-20	4-20	4-16
		扭矩 TORQUE(t.m)	6	10	12	15
	重载 HEAVY	转速 SPEED(r/min)	4-10	4-10	4-10	4-8
		扭矩 TORQUE(t.m)	16	20	25	30
钻杆(选配) DRILL ROD(mm)		$\phi 351 \times 20$ $\times 3000$	—	$\phi 377 \times 24$ $\times 3000$	$\phi 377 \times 28$ $\times 3000$	
电源 AC		3相380V 50HZ	3相380V 50HZ	3相380V 50HZ	3相380V 50HZ	
总功率 POWER(kw)		165	230	255	330	
整机尺寸 DIMENSION(m)		4 × 3.8 × 7	4.1 × 4.0 × 7.3	4.8 × 4.5 × 7.3	5.4 × 5.1 × 7.3	
整机重量 (不含钻具、配重) WEIGHT(t)		25	35	37	43	
排渣方式 SUCTION	反循环 REVERSE CIRCULATION			气举 AIR LIFT		



杭州湾跨海大桥施工现场



金塘大桥施工现场



黄石鄂东长江大桥



▶ / SHANGHAI JINTAI ENGINEERING \ ◀  
MACHINERY CO., LTD

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Technical Specifications are subject to change without prior notice and incurring responsibility for machines previously sold.

The shown machines may have special equipment. Technical data do not consider power losses.  
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