性能特点

自主研发的液压伸缩式履带底盘技术，履带展开宽度范围3500mm～4800mm，履带长度5175mm。确保系统便捷性的同时，有效提高了设备的行走能力和施工的确定性。

优化设计的回转平台结构，强度高、布局合理，便于设备的维修保养。

国内外首创的双卷扬单排钢丝结构，可有效提高钢丝绳使用寿命，降低掉斗、埋斗的风险。液压系统采用了LUDV控制阀，确保双卷扬提升下放过程中同步精度达到±8mm。

液压系统采用极限功率控制和负荷敏感控制，使液压系统效率更高，节能效果更加明显。

集成化、智能化的控制系统和方便快捷的人机交互界面，可实现设备施工状态的动态显示。同时具有故障显示及自动检测功能，保证了整机的高可靠性和安全性。

自主研发的可满足多种复杂地层施工的排板形式偏心式扭力，抓斗重心低、导向性能好、合闭力大（标配1400kN液压撑力），并标配12块斜装装置（成槽精度达到1/500），有效保证了施工效率及施工精度。

可配置满足狭小空间、异形槽施工的抓斗回转装置，提高设备的施工范围。

Performance Characteristics

It has independent hydraulic telescopic crawler chassis technology. The range of width is 3500～4800 mm & the wheel base is 5175 mm, which ensures the convenience of transportation at the same time improve the equipment’s walking and stable construction ability efficiently.

The optimization design of rotary platform structure, has higher strength more reasonable layout, and the more convenience maintenance.

Double winch and single rope construction extend the life-span of the steel rope, reduce the construction cost. The main hydraulic system adopt LUDV control valve that can ensure when the double winding up or down, the synchronous precision is in the process of ±8mm.

Equipped with load sensitive and extreme power technology, the hydraulic system can effectively increase the utilization rate of system resources and also the construction efficiency.

Integration, intelligence control system and convenient man-machine interactive interface, it can realize the dynamic display of the construction status.

The push board type grab has advanced vertical adjustment system and simple structure (Framework), larger closing force (1400 kN). The standard 12 rectifying push board of grab make a trough of high precision.

Optional the grab rotary device, which can meet the needs of narrow space, the corner trough, abnormality slot construction.
性能特点
成熟的“H”型伸缩履带底盘，展开宽度3500~4900mm，轮距5600mm，施工安全稳定，拆装运输快捷；
后置双卷扬单排绳结构，解决双绳麻绳的问题，避免抹斗的风险，提高钢绳磨损1~3倍使用寿命；
采用力士乐液压主阀，全新液控双卷扬同步技术，确保设备高效、稳定，钢丝绳使用寿命长。
高/低速两档控制放下技术，提升施工效率。
拥有独立的液压自动喷泉系统，操作简单、可靠，确保成槽精度。
自制伸缩型长导向，大斜度多轴偏心钻斗，成槽精度高，施工后机械采取能力强。
可选±90°、0°~180°抓斗回转装置，满足城市内狭小空间施工的要求。

Performance Characteristics
The mature ‘H’ retracted crawler, with a width of 3500~4900mm, and 5600mm, the construction safety and stability, the transport is easy; Rear double winding single rope structure, solve the problem of the bit line grinding line, avoid the risk of falling bucket, prolonging the service life of wire rope 1~3 times.
Adopt a new hydraulic control winding synchronization technology, ensure the reliability of the equipment construction;
High/low speed two devolved control technology, catch tank efficiency;
It has the automatic tightening system of the steel wire rope in the process of holding and closing the groove, and the operation is simple to ensure the groove precision.
The self-made heavy, heavy long, large closure thrust plate rectifying grab, the groove accuracy high, hard formation grasping ability strong.
We can choose between +90 and 0~180, to meet the requirement of small space construction in the city.
性能特点
成熟的“H”型伸缩履带底盘，展开宽度3500~4900mm，履距5600mm，可配自卸车厢，施工作业安全，拆装运输便捷；
后置双卷扬单排绳结构，解决双绳断绳的问题，避免掉斗的风险，提高钢丝绳1~3倍使用寿命；
进口沃尔沃31L发动机，315kW额定功率输出，动力强劲；
采用力士乐液压驱动，全液压双卷扬同步技术，确保设备施工的可靠性；
高/低速两幅控制液压系统，最大下放速度可达80m/min，提升效率更高；
拥有整机可伸缩式钢丝绳自动张紧系统，操作简单，确保成槽精度；
自制地笼型长导槽、大闭合力推拔式小斗抓，成槽精度高，硬地层抓取能力强；
可选±90°、0~180°转斗回转装置，满足城市内狭小空间施工的要求。

Performance Characteristics
The mature "H" retractable crawler, with a width of 3500~4900mm, and 5600mm pitch, can be used to disarm the leg structure, the construction safety and stability, the transport is easy;
Rear double winding single rope structure, solve the problem of the bit line grinding line, avoid the risk of falling bucket, prolonging the service life of wire rope 1~3 times.
Imported Volvo 13L engine, 315 kW power rating output, powerful;
Adopt rexroth hydraulic control valve, a new hydraulic control winding synchronisation technology, ensure the reliability of the equipment construction;
High/low speed two devolved control technology, the maximum speed can reach 80 m/min, catch tank efficiency;
It has the automatic tightening system of the steel wire rope in the process of holding and closing the groove, and the operation is simple to ensure the groove precision.
The self-made heavy-duty heavy long-oriented large closure thrust plate rectifying grab, the groove accuracy high, hard formation grasping ability strong;
We can choose between ±90 and 0~180°, to meet the requirement of small space construction in the city.
**Technical Features**

**XG Series Underground Diaphragm Wall Hydraulic Grab**

**Bottom ▼ Retractable Undercarrige ▼**

The bottom is a retractable undercarrige, which can be extended to a maximum of 16 meters before and after, allowing for stable and safe operations.

**Swing Mechanism ▼**

The swing mechanism allows for a 180° rotation, offering greater flexibility and efficiency.

**Winch ▼**

The winch has a large capacity, ensuring smooth and efficient operations.

**Engine ▼**

The engine is powerful and reliable, providing the necessary power for the grabber to function effectively.

**Control System ▼**

The control system is designed for easy operation and maintenance, ensuring smooth and efficient operation.
技术特点 Technical Features

液压系统 Hydraulic system

力士乐液压主阀控制技术，新一代全液控双卷扬同步技术，确保设备施工安全、可靠。
Rexroth liquid control master valve control technology, a new generation of all liquid control dual–winch synchronous technology, to ensure safe and reliable equipment construction.

安全装置 Safety Device

采用简单、轻便的悬挂控制和转向开关的精度高，可自动的锁紧装置和触底保护装置以及重要部位的各个传感器，有效的防止了用户误操作引起的事故发生。
Simple and light suspended structures, height limit micro–switch, sensitive 3–circle protection device, grounding protection device and cylinder lock device and sensors at important positions are used to effectively prevent safety accidents caused due to operator’s mis–operations.

重要元件国际化配套 Internationalized Configuration

关键电气、液压元件国际化配套，确保设备的性能，并拥有充足的资源储备，备件易得。
The key electrical and hydraulic components are internationalized to ensure the performance of the equipment, and have sufficient resources to spare parts.

抓斗回转装置 Grab Slewing Function

抓斗可选配回转机构，满足异型槽段、拐角槽段等特殊工况施工。
The grab can advanced slewing function, which meet the special working condition of the construction, such as abnormality slot, corner slot.

XG Series Underground Diaphragm Wall Hydraulic Grab

技术特点 Technical Features

抓斗体 Grab body

抓斗体是连续墙抓斗主要设备，目前，为满足不同施工条件和客户的要求，我公司有两种抓斗可供用户选择。超薄型抓斗，主要满足300~600mm施工要求。推板式抓斗可搭载600~1500mm斗头，具有先进的纵向纠偏系统、结构简单；还可配置配件功能，满足特殊位置的施工要求（施工地点有障碍物）。
The grab body is main equipment of diaphragm wall grab, and now the company provide different types for the users, so as to meet the requirements with respect to different constructions and customers. The ultra-thin type grab is mainly applicable for 300~600mm condition, the push board type grab can be equipped with a 600~1500mm bucket head, moreover the push board type grab has advanced vertical adjustment system and simple structure; besides it can advanced slewing function, and thus can meet the requirements at special places.

抓斗选型 Grab Model

<table>
<thead>
<tr>
<th>本体型号 Guide frame model</th>
<th>本体厚度/mm Guide frame thickness</th>
<th>成槽厚度/mm Wall thickness</th>
<th>抓斗重量/Lt Grab weight</th>
<th>闭合力/kN Clamp force</th>
<th>适用机型 Applicable models</th>
</tr>
</thead>
<tbody>
<tr>
<td>300本体 (重力纠偏) 300 Guide frame (gravity correction)</td>
<td>300</td>
<td>14.5</td>
<td>1000</td>
<td>XG500E及以上机型 XG500E or bigger ones</td>
<td></td>
</tr>
<tr>
<td>600本体 (12块纠偏) 600 Guide frame (12 correction block)</td>
<td>600</td>
<td>20.1</td>
<td>1400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800本体 (12块纠偏) 800 Guide frame (12 correction block)</td>
<td>800</td>
<td>27.5</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
XG Series Underground Diaphragm Wall Hydraulic Grab
Construction Cases

施工范例 Construction Cases

莫斯科地铁施工
Moscow Metro Construction

杭州地铁施工
Hangzhou Metro Construction

南京建筑基础施工
Nanjing Foundation Construction

苏州地铁施工
Suzhou Metro Construction

上海轨道交通17号线漕泾路站工程。该工程幅宽1200mm，最大深度55m。XG600D型机在该工程中运行稳定高效，得到了用户的高度认可。
The project, CaoYing Road Station of Line 17, Shanghai Metro, it is 1200mm wall thickness, XG600D was running stability and efficiently in the project, which got highly regarded by the users.
施工范例  Construction Cases

四川大渡河水电站防水墙工程，该工程地质为卵石和泥岩层，成槽宽度400mm，成槽最大深度20m。在该工程中，XCMG公司的双颤频全液压墙板机经数次试验，其优越的性能及施工效率得到了用户的一致好评。

XG Series Underground Diaphragm Wall Hydraulic Grab  Construction Cases

佛山南海区地铁深基坑工程。该工程埋深800mm，最大槽深33m，穿越泥岩约4m，此工程的施工效率得到了用户的赞誉。

土库曼斯坦水库防渗墙工程

Turkey Side Pile Engineering

马其顿库拉库伊特大米地基

Turkish Side Pile Engineering

Fuzhou Metro Construction

Flushing Metro Construction

Hangzhou Metro Construction

Jinan Metro Construction

Guangzhou Metro Construction

XCMG diaphragm wall grabs working on site and their excellent performance and construction efficiency earn good reputation from the user.

Deep foundation engineer of Foshan Nanhai District subway station. Underground Diaphragm Wall Hydraulic Grab success through 4meter strong–weathered rock , which get praise by the user.

Project of Changsha subway station. XCMG diaphragm wall hydraulic grab relies on the formation of good adaptability , in face of complex strata over the Changsha area, show a high construction efficiency.