双壹智造·臂定高效

Double One Smart Manufacturing Arm defines efficiency

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双壹机械
SHUANG YI MACHINERY

OUR MISSION IS

我们的使命是：

让挖掘不再是难题！

OUR MISSION IS TO MAKE DIGGING NO LONGER A PROBLEM!

个性化定制挖掘方案提供商！

PERSONALIZED CUSTOM MINING SOLUTION PROVIDER!

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I Company Profile 公司简介

辽宁双壹机械装备有限公司创建于 2005 年，坐落于有着“东方鲁尔”之誉的东北重工业名城一辽宁沈阳，是一家集产品研发、生产、销售、服务于一体的高新技术企业，拥有先进的生产设备以及一批高素质科研技术人员（以下简称双壹机械）；公司占地 17127 平方米，以追求技术创新、卓越服务的企业精神，致力于挖掘机特殊结构件的研发及制造。

公司主要生产挖掘机伸缩臂、加长臂、卷扬挖掘器、氮气弹簧、桩机设备等多种工程机械工作装置。伸缩臂有 12 米、14 米、16 米、20 米、26 米、30 米、32 米、42 米等多种长度，可挖深 10-44 米 可搭载贝壳斗、挖斗、梅花抓、松土器、碎石器、钻头等多种属具，达到一机多用，施工工况更广泛的应用场景，如地铁、管廊、地下人防、高层楼基础、渔塘、沉井、尾矿清理、建设桥梁、清淤、护坡、堤防、排水、顶管、湖泊等深远处作业。
公司自主研发的四节伸缩臂、卷扬式挖掘器、氮气弹簧、卷扬式油缸伸缩臂在国内均属领先水平。本公司产品选材优良，设备工艺先进，质量稳定可靠，有着多年生产与管理经验、技术精湛的专业技师，管理生产中的每个环节。

双壹人奉行以质量求生存、以科技求发展、以信誉占市场、以管理创效益的经营原则，为全国用户提供优质产品；洞察用户内在需求，引领工程机械行业高端趋势，是双壹公司在研发方面不断进取的使命，开放、创新的研发理念，支持双壹不断进步。双壹与您携手迈向更美好的明天！

Liaoning Shuangyi Machinery Co.,Ltd was founded in 2005 and is located in Shenyang,Liaoning Province, a famous heavy industry city in Northeast China known as the "Oriental Ruhr". It is a high-tech enterprise that integrates product research and development, production,sales, and service, with advanced production equipment and a group of high-quality scientific research and technical personnel (hereinafter referred to as Shuangyi Machinery).The company covers an area of 17127 square meters and is committed to the research and manufacturing of special structural components for excavators with the corporate spirit of pursuing technological innovation and excellent service.

The company mainly produces various engineering machinery working devices such as excavator telescopic arms, long arms, winch excavators, nitragen cylinder, and pile driving equipment..... The telescopic arm has various lengths such as 12 meters, 14 meters, 16 meters, 20 meters, 26 meters, 30 meters, 32 meters, 42 meters, etc., and can be excavated to depths of 10-44 meters; It can be equipped with various accessories such as shell buckets, digging buckets, plum blossom grabs, soil looseners, stone crushers, drill bits, etc., achieving multi-purpose use and wider application scenarios for construction conditions, such as subways, pipe galleries, underground civil defense, high-rise building foundations, fishing ponds, sinking wells, tailings cleaning, bridge construction, dredging, slope protection, embankments, drainage, pipe jacking, lakes and other deep and distant operations.

We're dedicated to efficient production equipped with advanced technology.The product materials are excellent,Our automation equipment and precision craftsmanship, ensure stable product quality. We can officially produce a large volume of products daily. Our product range is diverse, covering various industries and sectors.we can provide customized solutions. Our team's wealth of experience and expertise allows us to tailor production according to customer requirements. We ensure that every product meets the highest standards. We prioritize production efficiency and environmental protection. We actively adopt sustainable production methods to reduce energy consumption and minimize waste emissions. Whether you're a purchaser seeking high quality products or a partner looking to collaborate on developing new products, we can provide you with the best solutions. Let's work together to create a better future !

I Application case 应用案例

城市管道工程 URBAN PIPELINE ENGINEERING

地理位置：宁夏自治区银川市
Geographical location: Yinchuan City, Ningxia Autonomous Region
施工设备：14 米两节伸缩臂
Construction equipment: 14 meter two section telescopic arm

浦东国际机场扩建项目
PUDONG INTERNATIONAL AIRPORT EXPANSION PROJECT

地理位置：上海市
Geographical location: Shanghai
施工设备：
二十余台 25 米 -32 米三节伸缩臂抓斗机
Construction equipment: more than 20 sets of 25-32-meter three section telescopic arm grab cranes

沉井工程
SINKING WELL PROJECT

地理位置：
湖北省武汉市
Geographical location:
Wuhan City, Hubei Province

施工设备：
23 米 +9 米 加长伸缩臂
Construction equipment:
23 meter+9-meter extended telescopic arm

地铁站土方开挖工程
SUBWAY ENGINEERING

地理位置：
陕西省西安市
Geographical location:
Xi'an City, Shaanxi Province

施工设备：
32 米三节伸缩臂抓斗机
Construction equipment:
32 meter three section telescopic arm grab machine

高楼地基开挖工程
EXCAVATION PROJECT FOR HIGH-RISE BUILDING FOUNDATION

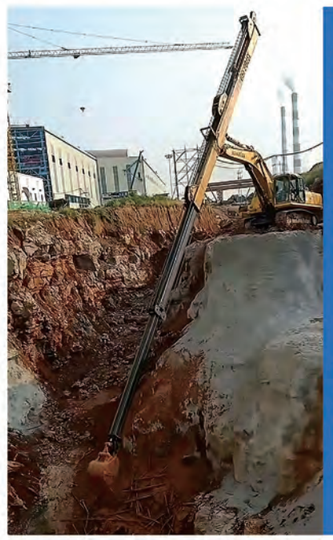
地理位置：
上海市
Geographical location:
Shanghai

施工设备：
30 米三节伸缩臂抓斗机
Construction equipment:
30 meter three section telescopic arm grab machine

跨海大桥工程
CROSS SEA BRIDGE PROJECT

地理位置：
浙江省宁波市
Geographical location:
Ningbo City, Zhejiang Province

施工设备：
42 米四节伸缩臂
Construction equipment:
42 meter four section telescopic arm



塌方救援工程
COLLAPSE RESCUE PROJECT

地理位置：
山东省济南市
Geographical location:
Jinan City, Shandong Province

施工设备：
32 米三节伸缩臂挖斗机
Construction equipment:
32 meter three section telescopic arm excavator

围堰施工
CONSTRUCTION OF COFFERDAM

地理位置：
浙江省温州市
Geographical location:
Wenzhou City, Zhejiang Province

施工设备：
18 米 +17 米 三节加长伸缩臂挖斗机 Construction equipment: 18 meter+17 meter three section extended telescopic arm excavator

两节伸缩臂
Two section telescopic arm

两段式伸缩臂由两个臂段（一节臂、二节臂），挖斗、伸缩油缸、卷管器（部分型号）、铲斗油缸、连杆总成、滑块、连接铁管以及高压软管等部件组成。这些部件协同工作，一节臂通过伸缩油缸使二节臂伸出或缩回，实现通过伸缩动作来调整工作范围和定位的功能。通常，两段式伸缩臂安装在 12 吨 -30 吨挖掘机，挖掘深度一般情况下可以达到 16 米左右，两段式伸缩臂具有伸缩灵活、工作范围大、适应性强等特点，可以根据实际需求进行伸缩调整，从而灵活适应不同的工作范围和高度。同时，由于采用了先进的材料和制造工艺，伸缩臂还具有较高的强度和耐久性，能够满足各种恶劣工况下的使用需求。

The two-stage telescopic arm consists of two arm segments (one arm and two arm), a digging bucket, a telescopic oil cylinder, a pipe reel (some models), a bucket oil cylinder, a connecting rod assembly, a slider, a connecting iron pipe, and a high-pressure hose. These components work together, with one arm extending or retracting the second arm through a telescopic cylinder, achieving the function of adjusting the working range and positioning through telescopic action. Usually, a two-stage telescopic arm is installed on a 12-30 ton excavator, and the excavation depth can generally reach about 16 meters. The two-stage telescopic arm has the characteristics of flexible extension, large working range, and strong adaptability. It can be adjusted according to actual needs to flexibly adapt to different working ranges and heights. Meanwhile, due to the use of advanced materials and manufacturing processes, the telescopic arm also has high strength and durability, which can meet the needs of various harsh working conditions.

三节伸缩臂
Three section telescopic arm

三段式伸缩臂由三个臂段（一节臂、二节臂、三节臂）、一个末端执行器（如挖斗、贝壳斗、梅花抓斗、冻土钩等）和一个底座组成，每节臂之间通过液压油缸、钢丝绳和滑轮组等部件进行连接和驱动。

三段式伸缩臂的工作原理主要基于液压传动和机械运动学原理。当液压油泵提供高压油液时，操作人员通过操纵杆控制换向阀，将油液分配到相应的液压油缸中。这些油缸在油液的推动下进行伸缩运动，从而带动臂段的伸长或缩短。同时，钢丝绳和滑轮组等部件起到传递力和调整运动轨迹的作用。

通常，三段式伸缩臂安装在 22 吨 -45 吨挖掘机，挖掘深度一般情况下可以达到 32 米左右，并具有以下特点：

工作半径大：通过伸缩臂的伸长，可以扩大挖掘机的作业范围，主要功能体现在向下深度挖掘，斗杆油缸主要用于调节臂挖掘角度。

工作精度高：现代三节伸缩臂挖掘机通常配备有先进的控制系统和监控系统，可以精确控制臂架的伸缩速度和角度变化，提高作业的准确性和安全性。

适应性强：三节伸缩臂挖掘机可以应用于多种复杂工况，如狭小的施工空间、深基坑开挖等。

The three-stage telescopic arm consists of three arm segments (one arm, two arm, three arm), one end effector (such as digging bucket, shell bucket, plum blossom grab bucket, frozen soil hook, etc.), and a base. Each arm is connected and driven by hydraulic cylinders, steel wire ropes, pulley groups, and other components.

The working principle of the three-stage telescopic arm is mainly based on hydraulic transmission and mechanical kinematics principles. When the hydraulic oil pump provides high-pressure oil, the operator controls the directional valve through the joystick to distribute the oil to the corresponding hydraulic cylinder. These oil cylinders perform telescopic movements under the push of oil, thereby driving the extension or shortening of the arm segments. At the same time, components such as steel wire ropes and pulley systems play a role in transmitting force and adjusting motion trajectories.

Usually, the three-stage telescopic arm is installed on excavators ranging from 22 tons to 45 tons, and the excavation depth can generally reach about 32 meters, with the following characteristics:

Large working radius: By extending the telescopic arm, the operating range of the excavator can be expanded, and its main function is to excavate deeply downwards. The boom cylinder is mainly used to adjust the excavation angle of the arm.

High work accuracy: Modern three section telescopic excavators are usually equipped with advanced control and monitoring systems, which can accurately control the telescopic speed and angle changes of the boom, improving the accuracy and safety of the operation.

Strong adaptability: The three section telescopic arm excavator can be applied to various complex working conditions, such as narrow construction spaces, deep foundation pit excavation, etc.

四节伸缩臂
Four section telescopic arm

四段式伸缩臂由四个臂段（一节臂、二节臂、三节臂、四节臂）、一个末端执行器（如贝壳斗、梅花抓斗）组成，每段臂之间通过液压油缸、钢丝绳和滑轮组等部件进行连接和驱动。
其原理主要基于以下几点：

滑轮组合：通过多个滑轮（包括动滑轮和定滑轮）的组合，利用动滑轮省力、定滑轮改变力的方向的特性，实现力的倍增。
钢丝绳张力分散：当钢丝绳绕过滑轮时，其张力被分散并传递到多个滑轮上，从而减少了单个滑轮所承受的力，并增加了整体的提升能力。
倍率调整：通过改变滑轮组的倍率（四节伸缩臂通常设计为12倍率），可以灵活地调整起升力，实现翻倍的效果。倍率增加时，钢丝绳每个分支拉力减小，但整体提升能力增强。

综上所述，四节伸缩臂利用滑轮组合、钢丝绳张力分散以及倍率调整等技术手段，实现力的倍增和整体提升能力的增强。

四段式伸缩臂按其应用场景可分为低净空伸缩臂和超长伸缩臂两种。低净空伸缩臂通常应用在施工高度低、狭小立体的空间中，三段式伸缩臂和四段式伸缩臂在最大挖掘深度相同的情况下，三段式伸缩臂需占用更高、更大的空间，而低净空四节伸缩臂占用空间较小。超长伸缩臂是以作业范围更深、更广为特点，极致发挥挖掘机的可拓展性，挖掘深度可达到45米，在超深基坑、桥梁建设等工程中起着重要作用。

The four-stage telescopic arm is composed of four arm segments (one arm, two arms, three arms, four arms) and an end actuator (such as shell bucket, plum grab), and each arm is connected and driven by hydraulic cylinder, steel wire rope, pulley block and other components.
Its principle is mainly based on the following points:

Pulley combination: Through the combination of multiple pulleys (including dynamic pulleys and fixed pulleys), using the characteristics of dynamic pulleys to save effort and fixed pulleys to change the direction of the force, to achieve force multiplication.
Wire rope tension dispersion: As the wire rope goes around the pulley, its tension is dispersed and transmitted to multiple pulleys, thereby reducing the force on a single pulley and increasing the overall lifting capacity.
Magnification adjustment: By changing the magnification of the pulley block (the four-section telescopic arm is usually designed to be 12 magnification), the lifting force can be flexibly adjusted to achieve a doubling effect. When the magnification increases, the tension of each branch of the wire rope decreases, but the overall lifting ability increases.

In summary, the four-section telescopic arm uses technical means such as pulley combination, wire rope tension dispersion and rate adjustment to achieve force multiplication and overall lifting ability enhancement.

According to its application scenario, the four-stage telescopic arm can be divided into low headroom telescopic arm and ultra-long telescopic arm. Low headroom telescopic arm is usually used in low construction height, narrow three-dimensional space, three-stage telescopic arm and four-stage telescopic arm in the case of the same maximum digging depth, the three-stage telescopic arm needs to occupy a higher and larger space, while the low-headroom four-section telescopic arm occupies a smaller space. The ultra-long telescopic arm is characterized by a deeper and more widespread operation range, which gives full play to the extensibility of the excavator, and the digging depth can reach 45 meters, which plays an important role in ultra-deep foundation pits, bridge construction and other projects.

加长伸缩臂

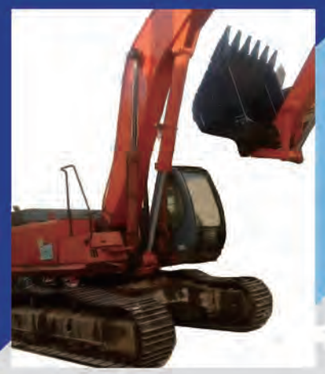
Long telescopic arm

加长伸缩臂是利用超长型动臂与伸缩型小臂配合，即可以举升高度，又可以下挖深度，可在沉井、大型桥墩、疏浚、护岸、坡面以及地铁建设等受地面环境限制的工况下发挥巨大作用。其超长型动臂可以越过井筒、围堰护筒等障碍直接装卸料物，伸缩臂行程可以到十几米或至二十几米，对地面下的深基坑进行挖掘，能更好的调整挖掘半径和深度，合理的调整装车高度，这是传统挖掘机不能比拟的。

Extended telescopic arm is a combination of an ultra long boom and a telescopic forearm, which can lift the height and excavate the depth. It can play a huge role in working conditions limited by the ground environment, such as sinking wells, large bridge piers, dredging, bank protection, slopes, and subway construction. Its ultra long boom can directly load and unload materials beyond obstacles such as shafts, cofferdams, and casings. The telescopic arm can travel up to ten or twenty meters to excavate deep foundation pits underground, allowing for better adjustment of excavation radius and depth, and reasonable adjustment of loading height, which is incomparable to traditional excavators.

加长臂是一种重要的挖掘机前端工作装置，它通常由加长大臂和加长小臂组成，可以配合挖掘斗进行较远、较深的作业，广泛应用于各种需要拓展挖掘机工作范围的场景，如基坑、陡坡挖掘的土方工程，市政管网、埋管等作业工程，沟渠清淤、河道疏通等。双壹机械生产的加长臂更加注重轻量化、高强度、高效率等方面的设计，以及智能化、自动化设备等技术的应用。

An extended arm is an important front-end working device for excavators, usually consisting of an extended large arm and an extended small arm. It can be used in conjunction with an excavation bucket for distant and deep operations, and is widely used in various scenarios that require the expansion of the excavator's working range, such as soil engineering for foundation pits and steep slope excavation, municipal pipeline networks, buried pipes and other work projects, ditch dredging, river dredging, etc. The extended arm produced by Shuangyi Machinery pays more attention to the design of lightweight, high-strength, high-efficiency, and the application of technologies such as intelligence and automation equipment.



工作效率 WORKING EFFICIENCY

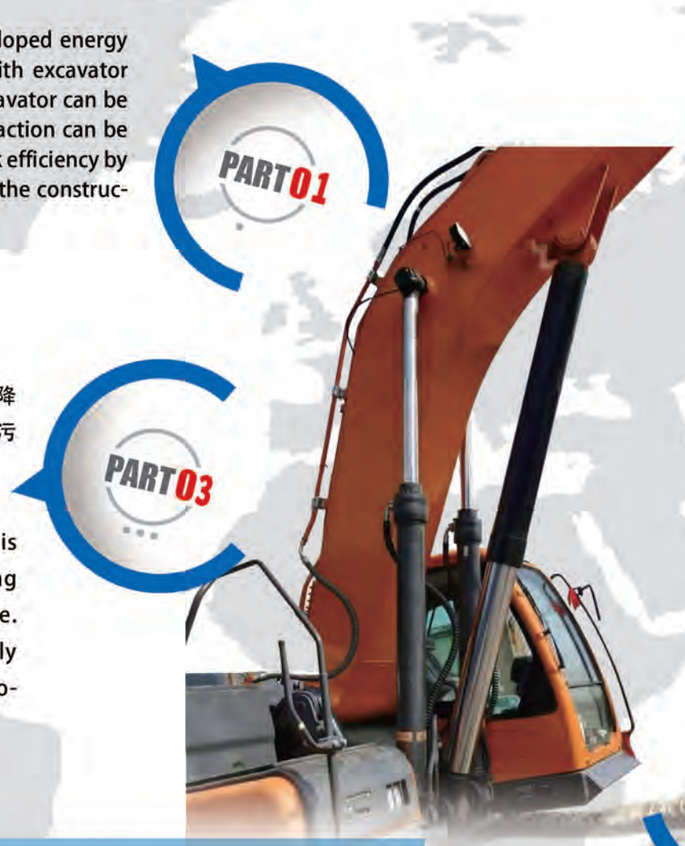
高效：通过自主研发的蓄能系统，与挖掘机技术完美融合，使挖掘机在相同的功率下，斗容可加大80%，动作增快，实现工作效率提高100%的目标，施工期大幅缩短。

Efficient: Through the independently developed energy storage system and perfect integration with excavator technology, the bucket capacity of the excavator can be increased by 80% at the same power, the action can be accelerated, and the goal of improving work efficiency by 100% can be achieved, greatly shortening the construction period.

环保 ENVIRONMENTAL PROTECTION

环保：气弹簧中的高压气体循环使用，使得挖掘机发动机的作业功率减小，排放量降低一半以上，有效降低机械使用成本。绿色能源让油耗降低50%以上，有效控制了污染物的排放，减轻大气污染，为我们的后人创造美好的明天。

Environmental protection: The high-pressure gas in the Nitragen cylinder is recycled, reducing the operating power of the excavator engine and reducing emissions by more than half, effectively reducing the cost of mechanical use. Green energy has reduced fuel consumption by more than 50%, effectively controlled pollutant emissions, reduced air pollution, and created a better tomorrow for our future generations.



Fuel consumption 燃油消耗

节能：经过严格的工况测试，标准的挖掘机安装气弹簧后，用户可节省燃油50%以上，有效降低了使用成本，这对终端用户而言，具有非常重要的意义。

Energy saving: After rigorous working condition testing, standard excavators equipped withNitragen cylinder can save users more than 50% of fuel, effectively reducing usage costs. This is of great significance to end users.

斗容A SURNAME

先进：挖掘机借助气弹簧的助力，可以增加工作装置的长度及重量，或者将工作装置的重量变为土石方的重量。以一台240型的加长臂挖掘机为例，常规的臂长为21米，斗容0.6立方；很多工程满足不了要求，可挖掘机再加长就带不动了，大臂举不起来。通过借助气弹簧的助力，大臂提升力度增大了，臂的长度可加长至32米，斗容加大至1.4立方；不仅工作范围广了，工作效率提高了，租赁价格自然上涨了。

Nitragen cylinder, excavators can increase the length and weight of the working device, or convert the weight of the working device into the weight of earth and stone. Taking a 240 type extended arm excavator as an example, the conventional arm length is 21 meters and the bucket capacity is 0.6 cubic meters; Many projects cannot meet the requirements, but if the excavator is further extended, it cannot be moved and the boom cannot be lifted. By utilizing the assistance of Nitragen cylinder, the lifting force of the boom has increased, the length of the arm can be extended to 32 meters, and the bucket capacity has been increased to 1.4 cubic meters; Not only has the scope of work expanded, but work efficiency has also improved, resulting in a natural increase in rental prices.

氮气弹簧 Nitragen cylinder

气弹簧是双壹机械于2014年研发出的专利产品（专利号201520795941.9），它是一种新型的蓄能节油装置，运动独创的“气体储存系统”，使其进行能量循环使用，并作为辅助能量与机械主动力源共同向挖掘机的工作装置负荷提供能量，解决了挖掘机动臂的自重问题，以达到无需启动发动机即可支撑挖掘机大臂举升的目的。安装后用户可节约油耗50%以上，提高大臂举升力，加大斗容80%，工作速度增快，有效降低施工成本。

Nitragen cylinder is a patented product developed by Shuangyi Machinery in 2014 (patent number 201520795941.9). It is a new type of energy storage and fuel saving device, with a unique "gas storage system" that enables energy circulation and provides energy to the working device load of the excavator as auxiliary energy and the main power source of the machinery. It solves the problem of the self weight of the excavator boom and achieves the goal of supporting the lifting of the excavator boom without starting the engine. After installation, users can save more than 50% of fuel consumption, increase the lifting force of the boom, increase the bucket capacity by 80%, increase working speed, and effectively reduce construction costs.

公司一角
Part of the company's area

挖掘机伸缩臂概述
Overview of excavator telescopic arm

挖掘机伸缩臂的原理
The principle of excavator telescopic arm

挖掘机伸缩臂是装载于挖掘机上的一种特殊工作装置，旨在灵活扩展挖掘机的作业半径、挖掘深度。它集挖掘机、起重机、抓木器等多种工程机械结构的优点于一体，结构紧凑且重量轻，操作简便，作业效率高。

挖掘机伸缩臂的工作原理主要依赖于挖掘机的动力源。当挖掘机启动时，其动力驱动液压油泵向液压系统提供高压油液。这些高压油液通过操纵换向阀被分配到伸缩臂的各个工作单元，如伸缩油缸、连杆总成等。伸缩油缸在高压油液的推动下进行伸缩运动，从而带动伸缩臂的伸长或缩短，实现了挖掘机伸缩臂的伸缩功能。

The telescopic arm of an excavator is a special working device loaded on the excavator, designed to flexibly expand the working radius and excavation depth of the excavator. It combines the advantages of various construction machinery structures such as excavators, cranes, and wood grabs, with a compact and lightweight structure, easy operation, and high work efficiency.

The working principle of excavator telescopic arm mainly depends on the power source of the excavator. When the excavator is started, its power drives the hydraulic oil pump to provide high-pressure oil to the hydraulic system. These high-pressure fluids are distributed to various working units of the telescopic arm, such as the telescopic cylinder and connecting rod assembly, by manipulating the directional valve. The telescopic oil cylinder performs telescopic motion under the push of high-pressure oil, thereby driving the extension or contraction of the telescopic arm, achieving the telescopic function of the excavator telescopic arm.

挖掘机伸缩 臂的结构
Structure of excavat or telescopic arm

挖掘机伸缩臂按其结构外型可分为外伸缩和内伸缩两种。外伸缩臂通过伸缩缸及滑块的作用使移动体在固定体上方自由伸缩，外伸缩臂受力大、滑轮组及钢绳不受空间约束、易于保养维护；内伸缩臂则是由移动体套入固定体内，一段接两段、两段接三段.....再通过伸缩缸的伸缩实现移动体的伸出及缩回，内伸缩臂结构较复杂，滑轮组及钢绳置于伸缩臂筒内部，以致零部件尺寸受到空间约束，发生故障时需分解伸缩臂，不便于维修。

Excavator telescopic arms can be divided into two types based on their structural appearance: external telescopic and internal telescopic. The extended telescopic arm allows the moving body to freely extend and retract above the fixed body through the action of the telescopic cylinder and slider. The extended telescopic arm is subjected to high force, and the pulley system and steel rope are not constrained by space, making it easy to maintain and maintain; The internal telescopic arm is fitted into a fixed body by a moving body, with one section connecting two sections, two sections connecting three sections The extension and retraction of the mobile body can be achieved through the expansion and contraction of the telescopic cylinder. The structure of the internal telescopic arm is relatively complex, and the pulley system and steel rope are placed inside the telescopic arm cylinder, resulting in spatial constraints on the size of the components. In case of failure, the telescopic arm needs to be disassembled, which is not convenient for maintenance.

挖掘机伸缩臂的应用
Application of excavator telescopic arm

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Liaoning Shuangyi Machinery is committed to developing the terminal host matching market, while we are also committed to building an excellent customer service system. Our service network covers first tier cities and major economic regions in China, and our products are sold to multiple countries around the world. Our professional team will accompany you throughout the entire process, from requirement analysis to solution design, from installation and debugging to post maintenance, to ensure that every requirement of yours is accurately responded to.