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EXPERTISE IN DELVIERING TURNKEY SOLUTIONS TO DEEP FOUNDATION ISSUES



上海工程机械厂有限公司 SHANGHAI ENGINEERING MACHINERY CO., LTD.

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# ABOUTUS

## 上海工程机械厂有限公司成立于1921年 前身为上海工程机械厂。

Shanghai Engineering Machinery Co., Ltd. (SEMW) —founded in 1921—

公司主要从事TRD系列工法机、静钻根植系列工法钻机、全回转式全套管钻机、DCM系列海上、陆上 处理系统、双轮搅拌钻机、多功能套管螺旋钻机、SMJ-120履带式超高压旋喷钻机、多轴式连续 墙系列钻机、全液压履带式、步履式系列打桩架、搓管机、筒式系列柴油锤、电驱振动锤、液压系列 打桩锤、高空作业平台等地下基础施工机械产品的设计、制造和销售。可为高速公路、高层建筑、桥 梁、地铁、机场、码头、电站等特大型工程的基础施工提供机械设备和整体解决方案。

公司产品除提供国内市场外,还出口到北美、欧洲、南美、非洲及东南亚各国,并获得中华人民共和国 进出口企业资格证书。产品注册商标为"金菱"牌、SEMW,在市场上享有良好的声誉。

SEMW is specialized in design, manufacturing and distribution of pile driving and deep foundation equipment. SEMW currently produces Trench Cutting & Re-mixing Deep Wall Method Equipment, SDP110 Pre-bored Pre-cast Piling Equipment, CRD-200H full casing rotary drilling rig, DCM Series offshore and land Processing System, Double Wheel Agitator Rig, DRA Series Dual Power Rotary Auger, SMJ Pile Driving Rig, Multi-shaft Agitating Augers, Hydraulic Pile Driving Rigs & Walking Piling Rig, PIT300 rammed shaft casing oscillators, D series Diesel Pile Hammer, Vibratory Hammer, HM Series Hydraulic Hammer, Boom Lifts. SEMW provides mechanical equipment and Turnkey solutions for the foundation construction of super large projects such as expressways, high-rise buildings, bridges, subways, airports, docks and power stations.

Our equipments are well received both domestically and overseas, in addition to providing domestic market, also exported to North America, Europe, South America, Africa and southeast Asia countries, and has obtained the People's Republic of China import and export enterprise qualification certificate. The registered trademark of the product is "JINLING", SEMW, and enjoys a good reputation in the market.

## 公司始终坚持"专业服务,创造价值"的服务理念, 力求为客户创造最大经济效益,以客户的最大满意度作为我们的追求目标。

"Professional solutions create more value". SEMW delivers on the promise of making the most benefit for our customers and satisfying their needs. We will keep providing good products and better service.

公司产品屡获殊荣,金菱牌打桩机多次获得上海市名牌产品和上海市著名商标称号,D系列超大断面球墨铸铁筒式柴油打桩锤于2006年获得上海市科技进步三等奖,TRD-D工法机以"超深等厚度水泥土搅拌墙成套设备与技术研发及应用"分别于2016年和2017年获得上海市科技进步一等奖和国家科学技术进步二等奖;累计有JB160A步履桩架、ZLD180/85-3-Mg-CS地下连续墙钻孔机、D220超大吨位筒式柴油锤、DCM处理系统、SDP静钻根植钻机和TRD-D工法机等项目通过上海市高新技术成果转化项目认定。

The company's products have won many honors, JINLING Piling Rig has gained Shanghai famous brand products and Shanghai famous trademark title for many times. D series super-large cross-section ductile iron diesel pile hammer in 2006 won the third prize of Shanghai scientific and technological progress. TRD-D equipment won the first prize of Shanghai science and technology progress award and the second prize of national science and technology progress award respectively in 2016 and 2017 with "complete equipment and technology development and application of super-deep and equal thickness soilcement mixing wall". JB 160A Hydraulic Walking Piling Rig, ZLD180/85-3-M<sub>2</sub>-CS Multi-shaft Agitating Auger, D220 Super Tonnage Diesel Pile Hammer, Deep Cement Mixing System, SDP Pre-bored Pre-cast Piling Equipment and TRD-D equipment are awarded Shanghai Municipality on Promoting the Transformation of New and High-tech Achievements.



上海工程机械厂有限公司公司以集中发展地下基础施工机械、实现产品差异化经营策略为企业总体发展战略,建立以企业研发部为主体、市场为导向、产学研相结合的科技创新体系,以产业化为目标,促进科技成果转化、自主创新和培养科技创新人才,开发形成一批具有自主知识产权、核心竞争力强和技术含量高的新一代地下基础施工设备。

#### 本公司目前拥有授权专利38项,其中发明19项,实用新型19项;软件著作权2项

SHANGHAI ENGINEERING MACHINERY CO., LTD. TAKES THE CENTRALIZED DEVELOPMENT OF UNDERGROUND FOUNDATION CONSTRUCTION MA-CHINERY AND THE REALIZATION OF PRODUCT DIFFERENTIATION AS ITS OVERALL DEVELOPMENT STRATEGY, ESTABLISHES A CORPORATE RE-SEARCH AND DEVELOPMENT DEPARTMENT AS THE MAIN BODY. THE MARKET AS THE GUIDANCE, THE COMBINATION OF SCIENCE AND TECHNOLOGY INNOVATION SYSTEM, AIMING AT THE INDUSTRIALIZATION, PROMOTES THE TRANSFORMATION OF SCIENTIFIC AND TECHNOLOGICAL ACHIEVE-MENTS, INDEPENDENT INNOVATION AND CULTIVATE INNOVATIVE TALENTS OF SCIENCE AND TECHNOLOGY, DEVELOPS A NUMBER OF A NEW GENERATION OF UNDERGROUND FOUNDATION CONSTRUCTION EQUIPMENT WITH INDEPENDENT INTELLECTUAL PROPERTY RIGHTS, STRONG CORE COMPETITIVENESS AND HIGH TECHNICAL CONTENT,

AT PRESENT, SEMW HAS 38 AUTHORIZED PATENTS, INCLUDING 19 ITEMS OF INVENTIONS, 19 ITEMS OF UTILITY PATENT; 2 ITEMS OF SOFTWARE COPYRIGHT.



# TRD系列工法机

Trench Cutting & Re-mixing Deep Wall Series Method Equipment

Product Model	
TRD-60D	TRD-70E
TRD-60E	TRD-80EA
TRD-70D	TRD-C50

适用于临时性支护墙或防渗墙,形成等厚度地下连续墙,可应用于地铁 车站、基坑围护、垃圾填埋污染物和密封隔断、护岸等各种用途。

该产品关键部件采用进口知名品牌,以超大功率驱动,配置高稳定性的 步履式底盘及双动力系统,辅以高智能控制。性能达国际领先水平,本 土化的售后保障让您高枕无忧。

TRD equipment suitable for making temporary support wall or cutoff walls, forming equal thickness underground diaphragm wall, can be applied to subway stations, landfills, impermeabl walls to prevent contamination from ground water, and more.

Key parts of the equipments are famous brand imported from overseas. TRD machines are configured for high power, highly stable track base, double driving systems, and smart control. The equipments feature advanced technology, professional and localized after-sale service, which is guaranteed to be customer satisfaction.







# MS系列双轮搅拌钻机 MS series Cutter Soil

Mixing Drilling Machine	
Product Model	
MS45E (步履式、履带式)	MS55E

CSM工法专用设备,适用于建筑物基坑、地下停车场、地铁车站、地下商 业街、水库大坝、环保工程等深基础项目中的止水帷幕、挡土墙等工程施 工,可完全替代三轴钻机。

该产品采用变频调速电机直驱代替传统的液压传动系统,机械效率高、设 备成本及维护成本低。钻机配套成熟的JB系列桩架,方形钻杆导向,确保 施工精度;后台实时监测,控制施工过程中水泥浆量、钻进速度和精度, 保证搅拌效果。

Special equipment of CSM construction method is suitable for the construction of watertight curtain and retaining wall in deep foundation projects such as building foundation pit, underground parking lot, subway station, underground commercial street, reservoir dam, environmental protection project and so on. It can completely replace the three-axis drilling machine.

This product adopts the direct drive of variable frequency motor instead of the traditional hydraulic transmission system, which has high mechanical efficiency, low equipment cost and low maintenance cost. The Cutter Soil Mixing Drilling Machine supports with mature JB series pile driving rigs and square drill pipe guide to ensure construction accuracy; Background real-time monitoring, control the amount of cement slurry, drilling speed and accuracy in the construction process, to ensure the mixing effect.







# **CRD全回转式全套管钻机** CRD Casing Rotator

Product Model	
CRD-1305H	CRD-1605H
CRD-2005H	CRD-2106H
CRD-2605H	CRD-3205H

CRD系列全回转式全套管钻机是上工机械在吸收国外先进技 术基础上自行研发的一款集机电液控为一体的新型套管钻机, 采用全进口液压系统元器件,确保功能控制可靠性; 本机功能全面,涵盖国内外各种机型功能,具有多种转速和 扭矩控制、自动垂直调整、刀头受力控制、远程线控等特点 操作便捷,性能优越可靠。 Casing Rotator CRD-200H is a new type of casing drill which integrates electromechanical and hydraulic control developed by SEMW on the basis of absorbing foreign advanced technology. All hydraulic system components are imported to ensure function control reliability. Engine Standard Euro III, it meets the emission standard in most countries, CRD-200H can be functioned as several models, it provides different rotating speeds and torques, automatic rectification, force-controlled cutter and remote control. It is reliable and efficient.

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# **ZLD系列** 多轴式连续墙钻孔机 ZLD series Multi-shaft Agitating Auger

# JB系列 全液压步履式打桩架

SHANGHAI ENGINEERING MACHINERY CO., LTC

JB series Hydraulic Walking Piling Rig

上工机械桩架、钻机组合适用于SMW工法的施工, 被应用于高层建筑、地铁车站 的深基坑围护, 江河堤坝的防渗加固和软土地基的改良加固等工程施工。

ZLD系列多轴式连续墙钻孔机具备超强扭矩,施工效率高、结构设计合理、自重轻、 低噪低污染、节能环保、多个型号多种钻具可供选择,可轻松应对各种复杂地质。

JB系列桩架采用稳定的步履式底盘设计,选用进口液压件及电气系统,操作简便, 安装运输便利,可供选型丰富,最高立柱达60米。是您施工的优质选择。

Product Model	
ZLD 110/65-3-M2	JB160B
ZLD 180/85-3-M2	JB170B
ZLD 180/85-3-M2-S	JEIVUE
ZLD 220/85-3-M2-S	JB180、JB180A
ZLD 330/85-5-M3-S	JB220
DCM440/130-4-M4-S	JB220

The combination of SEMW piling rig and drilling rig is applicable to the construction of SMW method, which is applied to the construction of high-rise buildings, deep foundation pit enclosure of subway station, seepage prevention and reinforcement of river embankmen tand improvemen tand reinforcement of soft soil foundation.

ZLD series Multi - shaft Agitating Augers feature supe rpower ful torque, high efficiency, rational structure design, lesstare weight, low noiseand environment friendly. We provide different types of drilling tools for you, which can handle with various soil conditions.n.

JB series Hydraulic Walking Piling Rigs are equipped with stable track base, imported hydraulic components and electric systems. They feature easy operation, assembly and disassembly, transportation, more models to choose, and the highes tleader (60m), it's your good choice for construction.



# SPR系列 全液压履带式三支点打桩架 SPR Sories Hydraulic Pile Driving

SPR Series Hydraulic Pile Driving Rig

#### 适用于建筑、桥梁、港口等各种桩基作业。

该产品是上工机械在引进、消化、吸收了国外先进打桩架技术的基础上自 主研发的新一代打桩架。以低燃耗发动机为动力,符合国Ⅲ(欧Ⅲ)标准, 最高可配置国Ⅳ(欧Ⅳ)排放,采用履带式可伸缩底盘,全液压传动系统 可实现低速驱动,立柱可回旋135度,可同时悬挂打桩锤及钻孔机,施工稳 定性高、精度高、效率高、维护方便。

#### SPR Series Hydraulic Pile Driving Rig are available for various foundation jobsites, such as, making buildings, bridges, ports.

Based on the imported foreign technology, SEMW made its further development and manufactured hydraulic pile driving rig SPR Series. Low consumption generator provides higher power, Engine emission standardard: China Stage 4 (EURO 4). expandable under chassis to ensure safety construction, 135° gyratory leader suitable for different construction method, be able to suspended with diesel pile hammer and agitating auger at the same time. They feature high stability & accuracy, high efficiency, and easy maintenance.

Product Model SPR95K(27m) SPR115K(33m) SPR135K(36m) SPR165K(45m)







SDP系列静钻根植工法钻机是利用根植桩组合的新型桩基础施工 工法,采用钻孔加深层搅拌、扩底及预制桩身的施工方法,适应 桩径500~1200MM,最大入土深度80M,具有无震动、低噪音、 成桩质量好、单桩承载力高及泥浆排放少等特点。

SDP Series Pre-bored Pre-cast Piling Equipment is designed for a new foundation method, which integrates virtues of cast-in-situ bored pile, deep mixed pile, pre-bored & root-enlarged pile. It is advanced and reliable technology. Root-enlarged diameter is up to 500~1200mm, maximum depth of 80m. It features no vibration, noiseless, no damage to pile body, anti-pressing, and mud-emission-free.





# DRA系列 多功能套管螺旋钻机

# DRA Series Dual Power Rotary Auger

DRA系列多功能套管螺旋钻机是上工机械在吸收国内外先进技术 和经验的基础上,创新研发的一项拥有自主知识产权的新型钻机 产品。

DRA系列多功能套管螺旋钻机主要由可分离式的双动力头和电气 控制系统构成,配置套管螺旋钻杆及潜孔锤等组合钻具,可进行 多功能、多用途施工,特别是能在卵石漂石层及坚硬岩层等复杂 地层完成高效率钻孔。具有成桩孔径、孔壁形状规整,质量好, 垂直精度高,施工无泥浆污染等特点,是一种环保型的桩工机械 新产品,符合国家节能减排绿色施工的政策要求,具有良好的经 济社会效益和广阔的市场推广前景。

DRA Series Dual Power Drilling Rig is one kind of new product with independent intellectual property rights. It is a new update of international advanced technology.

DRA Series Dual Power Rotary Auger is composed by double rotary heads, advanced electrical control system and tools set including casing tube, drilling auger and DTH hammer. SEMW rig is designed for multi-functional construction, especially for high efficient drilling in complex stratum condition with gravel and hard rock. The drilling rig provides high pile quality, high vertical precision and less mud contamination. SEMW rig solved the technical problems in large diameter pile foundation drilling in rock, overcame the environmental pollution of the bentonite. It is one kind of environment-friendly piling machinery with new technology, which not only complies with the national policy for the energy saving and emission reduction, but also has good economic and international market promotion prospects.





# SMJ-120履带式超高压旋喷钻机 SMJ-120Pile Driving Rig

SMJ-120履带式超高压旋喷钻机可适用于MJS工法施工,具有:全 方位高压注浆喷射施工能力,成桩直径大、成桩质量好,加固深度 大、泥浆污染少等特点,是一种能进行水平、垂直及倾斜和360°全 方位地基加固的施工工法设备。

SMJ Pile Driving Rig can be applied to MJS construction method, all-directional high-pressure grouting jet construction capacity, can make piles with large diameter, good quality, deep reinforcement, less mud pollution, etc. It is a construction method equipment capable of horizontal, vertical and inclined and 360° all-directional foundation reinforcement.



SHANGHAI ENGINEERING MACHINERY CO. I.TD.







## DCM处理系统 海洋工程

Deep Cement Mixing System (Ooceanographic Engineering)

## Product Model

DCM528/130-4-M<sub>4</sub>-S DCM440/130-4-M<sub>4</sub>-S

## DCM110-M1

DCM220/120-M<sub>2</sub>-S

DCM(DEEP CEMENT MIXING SYSTEM),即水泥深层搅拌工法,将 特制的深层搅拌机械深入到软土中,沿土层竖向将水泥与地基土就 地强制拌合,形成水泥土块体或水泥砂土桩,以加固软土地基。

DCM处理系统是软底基础加固设备。可广泛应用于人工岛基础、桥 墩基础、岸壁码头基础、护岸基础、海底基础、隧道等软土地基的 改良加固工程施工。具有功率大、施工效率高、智能化程度高,施 工过程可控等特点。

DCM is a Deep Cement Mixing foundation technique. Deep Cement Mixing machine consists of an auger, pump and control panel etc. First of all, excavating the soil from the ground with auger. Since the existing soil is soft, cement needs to be injected into the excavated holes and mixed with soft soil. Once the cement-soil column fully hardened, it obtains a much better load bearing capability.

DCM machine is well accepted in foundation reinforcement. It can be widely used in non-dredge-method man-made islands, stabilization of bridges, docks, seabeds, and tunnels, etc. DCM machine is powerful, efficient and smart control.

2018年上工机械又成功研制出陆用两轴DCM处理机系统、陆用组合 式DCM处理机系统,更加丰富了DCM处理系统的应用范围,为用户 提供更多样化选择。

SEMW successfully developed a two-axis DCM system for land and a combined DCM processor system for land use in 2018, which further enriched the application range of DCM system and provided users with more diversified choices.



DCM处理系统 陆上工程

Deep Cement Mixing

System (Land engineering)

海洋工程 Ooceanographic Engineering



陆上工程 Land engineering DZ系列变频电驱振动锤 DZ Series Electric Driven Vibro Hammer

我公司最新研制DZ系列变频电驱振动锤具有技术先进、贯入力大、性 能可靠、沉桩效率高、适用范围广泛等特点,尤其是在海洋工程的挤 密砂桩、振动沉管式碎石桩、大型管桩等施工中发挥着重要作用。

该产品具有贯入力强、沉桩质量好、坚固耐用、故障少、结构紧凑、低 噪、高效、无污染、适用范围广等优点,可满足24小时不间断连续作业。



**碎石桩项目** Gravel pile project



SHANGHAI ENGINEERING MACHINERY CO. I.TD.

The newly developed DZ series variable frequency electric drive vibratory hammer has the characteristics of advanced technology, large penetration force, reliable performance, high pile sinking efficiency, wide application range, etc. It plays an important role in the construction of sand compaction piles, vibrating pipe sinking gravel piles, large pipe piles, etc. in offshore engineering.

Vibratory hammers perform well pile driving, strong penetration, durability, less malfunction, noiseless, high efficiency, pollution free, and wide application. The hammers are available for continuous work for 24hours.

Product Model	
DZS300	
DZS400	
DZS500	
DZS600	



# H\*MF系列液压打桩锤

HMF series hydraulic 🄀 pile hammer



上工机械H\*MF双作用力液压锤是利用液压能提升锤心。 继而依靠重力势能锤击桩端而入桩一种结构形式简单的 液压打桩锤。

H\*MF双作用力液压锤还具有低噪低震、消耗功率低,环 保节能,系统发热小,液压系统可靠性高,机械性能优 良,调控能力适应性强,工作效率高等特点。 产品适应多种桩型施工,广泛应用于建筑、桥梁、码头 等桩基础施工建设。同时, HMF液压锤同时也适用于陆 地大直径锤击桩施工,凭借低噪音、低震动、节能、环 保、可靠、双作用等技术特点。

SEMW H\*MF double acting hydraulic hammer is a simple hydraulic pile hammer with simple structure, which uses hydraulic energy to lift the hammer core, and then uses gravity potential energy to hammer the pile end into the pile.

The H\*MF double acting hydraulic hammer is also characterized by low noise, low vibration, low power consumption, environmental protection and energy conservation, low system heating, high reliability of the hydraulic system, excellent mechanical performance, strong adaptability to regulation, and high work efficiency.

The products are suitable for a variety of pile type construction and are widely used in the construction of pile foundations such as buildings, bridges and wharfs. At the same time, HMF hydraulic hammer is also suitable for land large-diameter hammer pile construction, with low noise, low vibration, energy saving, environmental protection, reliability, double action and other technical characteristics.



H350MF

H450MF



海上工程 Ooceanographic Engineering





D系列 筒式柴油打桩锤 D series Diesel Pile Hammer

上工机械系列桩锤适用于各种桩型(混凝土桩、预制桩、钢管桩、钢板桩等),广泛运用于跨海大桥、海上石油钻井平台、 海上风电场、深水港码头和海上人工岛围海等大型工程项目建设。

SEMW series of pile hammers are applicable to all kinds of pile types (concrete piles, precast piles, steel pipe piles, steel sheet piles, etc.), and are widely used in the construction of large engineering projects such as sea-crossing Bridges, offshore oil drilling platforms, offshore wind farms, deep water ports and offshore artificial islands.

H\*MT系列液压打桩锤是上工机械自主研发设计的高性 能双作用模式打桩锤,与筒式柴油打桩锤相比,具有 噪声低、无油烟、打击能量易于控制等特点。产品用 途广泛、可控性高、施工效率高,节能环保,兼具斜 桩等作业方式,在打入式桩基础施工发展中将逐渐替 代筒式柴油打桩锤。

H\*MT series hydraulic pile hammer is a high-performance double-action pile hammer independently developed and designed by SEMW. Compared with diesel pile hammer. HM series hydraulic pile hammer has the characteristics of low noise, no oil smoke, and easy control of strike energy. The product has a wide range of uses, high controllability, high construction efficiency, energy saving and environmental protection, as well as inclined pile and other operation modes. In the development of driven pile foundation construction, it will gradually replace diesel pile hammer.

**Product Model** 

H260MT

H600MT

H800MT

H1000MT

D系列筒式柴油打桩锤强劲有力、打击能量大、油耗低、故 障率低、持续施工作业时间长,可选配双燃油泵系统、开式 和半开式悬挂装置或新型浮动式桩帽,满足各种施工作业要 求。

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D series diesel pile hammer has strong power, great impact energy, low fuel consumption, low failure rate and long continuous construction time. It can be equipped with dual fuel pump system, open and semi-open suspension device or new floating pile cap, which can meet all kinds of construction requirements.





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# PJR系列微型顶管机

PJR series micro pipe jacking machine



该产品是公司吸收国外先进技术,结合多年桩工机械设备生产制造经验,自主研发的新一代微型顶管钻机, 采用螺旋钻式取土方式,进行顶管施工。

It is suitable for the construction of sub-branch network in densely populated areas.

SEMW PJR130 micro pipe jacking rig is a new generation of micro-pipe jacking rig independently developed by the company in accordance with the construction requirements of the new era by absorbing foreign advanced technology and combining years of experience in the production and manufacturing of piling machinery equipment, auger - drilling method is adopted to carry out pipe jacking.









PIT工法使用摇动压入式竖井摇管机,通过专用外套管(钢制 圆筒)向地面边摇动边压入的方式,通过挖掘挡土钢套管中的 部分,来构筑基坑,是无振动、低噪音、节能环保的工法。与 其他钢板桩支护工程相比,更加凸显安全性、经济性、高效性 的优良工艺。

The PIT construction method uses the shaking and pressing type vertical shaft pipe shaking machine to build the foundation pit by shaking and pressing the special outer casing (steel cylinder) to the ground and digging the part of the retaining steel casing. It is a vibration free, low-noise, energy saving and environmental protection construction method. Compared with other steel sheet pile supporting projects, the excellent technology of safety, economy and efficiency is more prominent.





PIT系列压入式竖井摇管机是上工机械在引进、消化、吸收国 外先进技术基础上自主研发的一款集机电液控为一体的新型套 管钻机。本机功能全面,灵巧轻便涵盖国内外各种机型功能, 具有多种转速和扭矩控制、自动垂直调整、刀头受力控制、远 程线控等特点操作便捷,无噪音、低振动、性能优越可靠。

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PIT series press in vertical well pipe shaker is a new type casing drilling rig integrating electromechanical and hydraulic control, which is independently developed by Shanghai Shanggong Machinery Co., Ltd. on the basis of introducing, digesting and absorbing foreign advanced technologies. This machine has comprehensive functions, is flexible and light, and covers the functions of various models at home and abroad. It has a variety of speed and torque control, automatic vertical adjustment, cutter head force control, remote wire control, etc. It is easy to operate, noise free, low vibration, and superior and reliable performance.

Product Model
PIT300
PIT2630
PIT3630





# 专业服务 创造价值

## 1、服务.接待

24小时开通免费服务热线4008881749, 全天候为客户提供产品咨询、服务受理; 如果您对我们的产品感兴趣,我们的销售人员会耐心地接待您,亦可免费上门为你提 供相关咨询及介绍。

#### 1、FREE-CALL CENTER SERVICE

We provide free-call center service for 24hours. For further information of SEMW productsor after-sale service, please call us at+0086-21-4008881749. We will provide information or solutions you need.

### 2、咨询.方案

施工过程中,遇疑难问题,免费提供技术咨询; 我们拥有一支经验丰富的工程师团队,根据您实际的施工要求、地质情况,为您量身 定制更合理的解决方案。

#### 2、CONSULTANCY & SOLUTIONS

Our professional team offers free consulting services according to different job sites, soilconditions and your requirements.

### 3、调试.培训

免费指导安装调试产品,直至产品交付正常使用; 如有需要,可提供有偿现场施工工艺指导及培训,确保设备操作人员掌握设备的正确 使用方法、保养要求及常见故障的正确诊断和排除方法。

#### 3、TESTING & TRAINING

SEMW is committed to free guidance of installation and testing, to make sure that you canmake proper operations. We will offer training on site if it is necessary, to make sure you know the correct way formaintenance, analysis and debugging of the malfunctions.

#### 4、维修.保养

经验丰富的专业服务工程师队伍时刻待命,随时响应客户的服务需求。 公司自主生产并供应配件,易损件供货充足,服务响应速度远远快于国外进口产品。 定制化年度维保方案,确保设备时刻处在最佳状态,让客户高枕无忧。

MAINTENANCE & REPAIR
We have offices in many places in China, easy for maintenance.
Sufficient supplies for spare parts and wearing parts.
Our service team has a wide range of professional experience on any size project large or small. They provide best solutions with quick response.

## 5、回访.维系

呼叫中心100%服务记录回访,定期进行客户满意度调查; 客户俱乐部定期为您提供更新产品、分享更全面技术信息、享受更多优惠服务。

5. CUSTOMERS & CONNECTIONS After sale customer file was set up for better understanding your need and feedback.

More services are provided, such as, sending info of new released products, latest technology. We also provide special of er for you.



## 全球营销网络

#### THE GLOBAL MARKETING NETWORK

上工机械不仅仅在国内具有良好的市场声誉;产品批量出口 欧洲及俄罗斯,全面覆盖东南亚、成功推广至南北美市场, 在非洲市场也拥有广泛且固定的客户群。 SEMW has achieved a good reputation domestically and overseas. SEMW products are exported in a large quantity to Europe, Russia, Southeast Asia, North America, South America, and Africa.