

WINCOO ENGINEERING CO., LTD

南京惠科唯能工程设备有限公司

E<sub>lectric</sub>

E<sub>quipment</sub>



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# 埋弧自动横焊机

## Automatic Girth Welder

惠科机电提供的埋弧自动环焊机主要用于立式筒体施工。不同于目前市场上的横焊机，MSHW 系列横焊机配有稳定的双驱系统。这种自驱埋弧焊接系统可将现场储罐施工时间缩短约 40%，焊缝缺陷大大减少，节省了油罐安装成本。环焊机适用于内、外焊接的自顶向下或自底向上的立式筒体内外环缝焊接。我们有四种标准横焊机。而且我们还可以根据用户要求设计非标横焊机。

WINCOO Engineering offers the Automatic Girth Welder for tank fabrication applications. Unlike current girth welders on the market, the MSHW series comes standard with a Dual Drive System. This self-propelled submerged arc welding system can reduce field storage tank welding time up to 40%. Weld defects are greatly reduced, saving tank erection costs. The Girth Welder is applicable for top down or bottom up construction single or double wall storage tanks for inside and outside welding. There are four standard units, however our design allows us to offer custom built units for non-standard application.

### Specification

Min Diameter	4.5m
Plate Width	1.4-3.2m
Plate Thickness	8-45mm
Construction Method	Top to Bottom&Bottom to Top
Welding Speed	300-500mm/min
Fast Speed	2650mm/min

### Model

Product	Model	Application
Single Sided Girth Welder	MSHW -I/Z	Conventional storage tanks
Double Sided Girth Welder	MSHW -II	
Jack-up Girth Welder	MSHW -I/D	Jack Up tanks
Light Girth Welder	MSHW/L	tower
Girth Welder for LNG/LPG Tank	MSHW -LNG	LNG/LPG tanks



# 埋弧自动横焊机

Automatic girth welder



# 气电立焊机

## Electrogas Welder

气-电焊机是，是根据电流反馈来控制闭环升降的一种高效自动焊接设备。焊接接头一次成型厚度可达 50mm。主要用于石油、化工、高炉、造船等行业厚板焊接。

Gas-electric welding machine is a high-efficiency automatic welding equipment, which adopts current feedback to closed-loop control vehicle lifting. The thickness of welding joint primary forming is up to 50mm. It is mainly used for thick plate welding in petroleum, chemical industry, blast furnace and shipbuilding industries.

### Features

- 1.Welding forced water cooling, one - time molding
- 2.The liquid level of molten pool is controlled automatically, and the length of welding wire is adjusted automatically
- 3.Aluminum alloy track, magnet adsorption, easy to disassemble
- 4.Small size, light weight, module structure, flexible and convenient to use

### Specification

Plate Width	1.6-3.2m
Plate Thickness	8-80mm
Min Diameter	6m
Welding Speed	0-250mm/min
Fast Speed	550mm/min

### Model

Product	Model	Application
Gas-Electric Welder	MEGW -I/Z	Conventional storage tanks
Jack Up Gas-electric Welder	MEGW -I/D	Jack Up tanks
Multi-Pass Vertical Welder	MMAG -I	LNG&LPG tanks and Stainless tanks
Self-shielded Gas-electric Welder	MEGW -S	No gas protection required

# 气电立焊机

## Electrogas Welder



# 双丝气电立焊机

Two-Electrode Electrode Gas Welder

双丝气电立焊是为大线能量焊接用钢厚板焊接而设计的，主要用于大型集装箱船的船板焊接

TEGW two electrode gas-electric welder is designed for welding High-Heat-Input thick plate. It is widely used to weld sheer stakes and hatch side coaming of container ships

## 特征 Features

- ✧ 可用于 50~70mm 厚板单面焊接，且没有焊接缺陷

It can weld steel plates having thickness from 50~70mm.

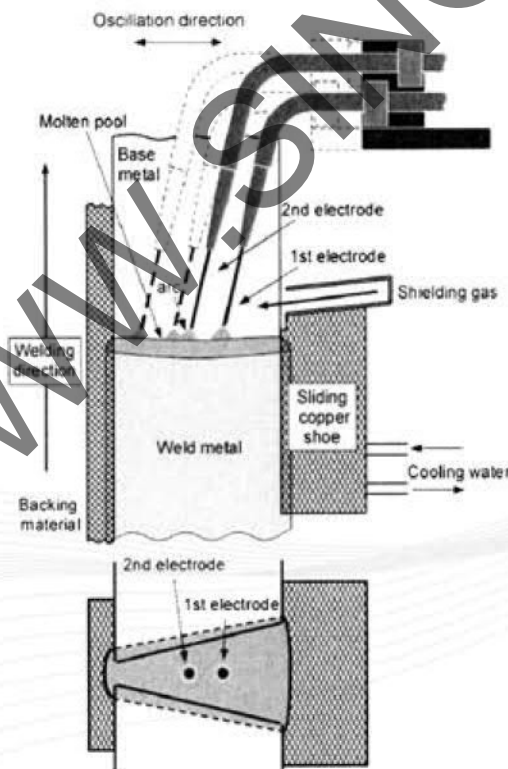
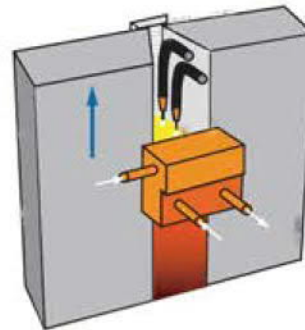
There is no welding defects and joints are sound.

- ✧ 焊接机械性能达到设计要求

Good mechanical properties of welds

- ✧ 设备操作简单

Simple equipment operation

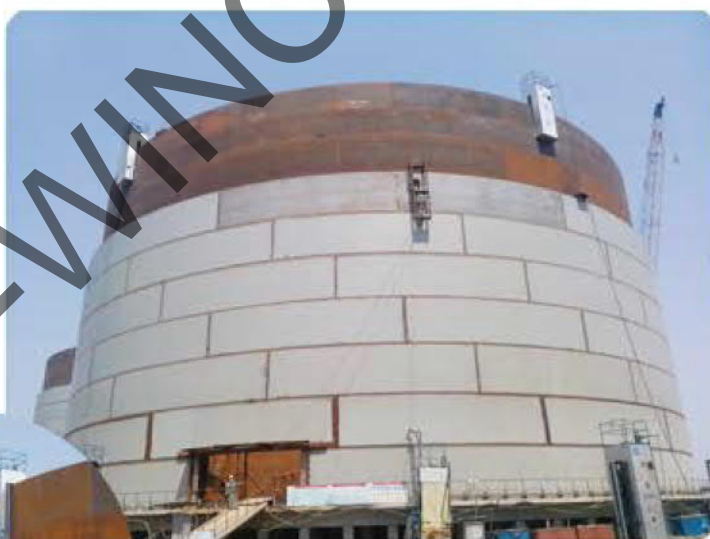


# 低温储罐立焊机

## LNG/LPG Tank Vertical Welder

MAGW -I 型低温储罐立焊机是为特殊钢材（如不锈钢、5%Ni 钢和 9%Ni 钢）野外施工而设计的自动立缝焊接机，该机采用二保焊工艺，其特点是焊接效率高、缺陷少、焊接热输入量小等。

MAGW -I LNG/LPG tank vertical welder is designed to weld vertical seam of tanks with special material(such as stainless steel,5%Ni steel and 9% Ni steel).It is equipped with a MAG/MIG welding system.It features high efficiency,X-Ray weld seam and low heat input.

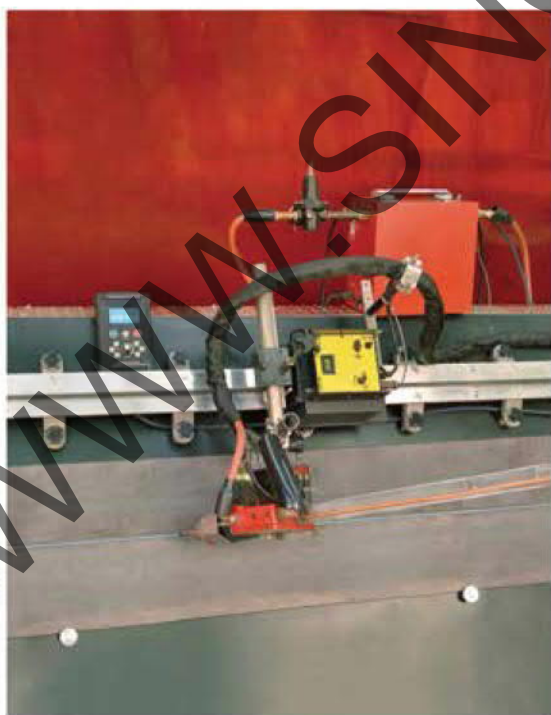


# 自动碳弧气刨机

Automatic Arc Gouging

L6000 刨削效率是手工碳弧刨的 5 倍。L6000 碳弧气刨系统在铁板上可刨出光滑有 U 形坡口，在圆管上可刨出光滑有焊接坡口，比起火焰切割，边的成型都光滑笔直，基本无变形。在厚度 25mm 的板上做 J 型口比普通火焰切割要快一半的时间。后续的焊接作业中，单边 J 型坡口比双边坡口要求更多的金属来填充，因此焊接作业可提高 1.5 倍。

The L6000 planer is 5 times more efficient than the manual carbon arc planer. The L6000 carbon arc air gouging system can make smooth u-shaped groove on the iron plate and smooth welding groove on the circular pipe. Compared with flame cutting, the molding of side is smooth and straight, basically without deformation. It takes half as long to make a j-shaped cut on a 25mm thick sheet as a normal flame cut. In subsequent welding operations, the single-side j-shaped groove requires more metal to fill than the bilateral groove, so the welding operation can be improved by 1.5 times.



# 单丝埋弧焊小车

## Submerged Arc Welding Tractor

工业级自驱式埋弧焊小车 MLTW |P/J 可用于储罐的平/角缝及筒体焊接。该型号小车有三种型号供选择，标准单丝平焊小车、用于立式筒体平缝及角缝焊接的平角焊小车，用于直径大于 600mm 的筒体内纵缝焊接的微型焊接小车。

Industrial grade self-propelled submerged arc welding carriage MLTW-P/J can be used for flat/angle joints and tube welding of storage tanks. This type of car has three models to choose from, standard single-wire flat welding car, flat Angle welding car used for vertical cylinder flat seam and corner seam welding, and micro welding car used for longitudinal seam welding in cylinder with diameter greater than 600mm.



# 双丝埋弧焊小车

Two Electrode SAW Tractor

MLTW -T 型双丝埋弧焊小车有两个安装臂。该焊机可用于双丝埋弧焊，也可以用于同时焊接两个角缝。

The MTLW -T welding automat was developed for submerged-arc welding with two articulated arms. Two-electrode submerged arc welding can be used, and two fillet welds can be welded at the same time with high effectiveness. The self-driven welding automat is equipped with a speedometer-driven carriage. This guarantees a high degree of mobility.



# 头尾架

Circumferential Welding Lathe

重型焊接头尾架主要较大工件的弧焊。系统由一个电动头架和一个手动的尾架组成。侧臂梁用于安装焊接机头。头架带动工件旋转，整个焊接过程由主控制器控制。

Arc welding of main large work piece of heavy welding head and tail bracket. The system consists of an electric head stock and a manual tail stock. Side beam is used to install welding head. The head frame drives the work piece to rotate, and the whole welding process is controlled by the main controller.



# 管道预制焊接机

Automatic Pipe Welder

管道预制焊接机适用于各个行业直管与直管、直管与锥形管、直管与法兰、直管与弯头、直管与三通等的自动焊。

Pipe welding machine is suitable for automatic welding of straight pipe and straight pipe, straight pipe and cone pipe, straight pipe and flange, straight pipe and elbow, straight pipe and tee, etc.



# 全位置管道焊接机

Orbital Welding System

全位置管道焊接机是为管道气保焊接设计，可以用于直径大于

Φ300mm 管道打底、填充和盖面。

All-position pipe welding machine is designed for pipe gas protection welding, which can be used for under filling, filling and cover surface of pipes larger than the diameter of 300mm



## 技术参数 Specification

适用管径 Tube OD< mm>	300 - 1500
旋转速度 Rotation Speed( mm/ min)	40 - 500
重量 Net Weight ( kg)	12
管连接连接 Connection	管管 Tube to tube, 管与弯头 tube to elbow

## 焊接操作架

Welding Manipulator

型号根据横臂前端承重可分为：轻型(LHQ)、中型(LHZ)、重型(LHW)、超重型(HCJ)；结构形式分为：固定式、移动式、固定带回转、移动带回转四种组合；横臂水平伸缩下垂量 2mm/m；横臂升降设有意外防坠落装置，安全可靠；横臂前端配有十字微调机构，可在遥控盒上操作。

The model can be divided into light (LHQ), medium (LHZ), heavy (LHW) and ultra-heavy (HCJ) according to the load bearing at the end of the horizontal arm. The structure can be divided into four types: fixed, mobile, fixed and mobile. Horizontal expansion and sag of the transverse arm 2mm/m; The arm lifting is provided with accidental fall preventing device, which is safe and reliable; The front end of the arm is equipped with a cross fine tuning mechanism, which can be operated on the remote control box.

Model	LH8080	LH6060	LH5050	LH4040	LH3040	LH2030
Horizontal travel/mm	8000	6000	5000	4000	4000	3000
Vertical travel/mm	8000	6000	5000	4000	3000	2000
Rotating angle	+180°	+180°	+180°	+180°	+180°	+180°
Boom elevating speed/m/min	1	1	1	1	1	1
Boom forward speed/m/min	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5
Trolley travel speed/m/min	3	3	3	3	3	3
Trolley rail distance/m	2450	2450	1900	1900	1900	1700



自动焊接中心  
Auto Welding Center



吊钩式  
吊钩式焊接操作架

# 自调式滚轮架

## Self-Alignment Turning Roll

焊接滚轮架有自调式、可调式、移动式、防轴向窜动式多种，有钢轮、橡胶轮、聚氨酯轮可选，主要用于筒体的焊接、打磨、衬胶、装配等，自调式滚轮架可根据筒体大小自行调节，可调滚轮架可采用丝杆调节和螺钉分档调节。本司还可根据客户需要设计制造各种专用滚轮架。

There are various types of welding roller frames such as self-regulating, adjustable, movable and anti-axial channeling. They are available for steel wheel, rubber wheel and polyurethane wheel. They are mainly used for welding, polishing, lining glue, assembly, etc.

The division can also design and manufacture a variety of special roller stand according to customer needs.

技术参数 Specification

Model	Max loading (kg)	Range of suitable work piece(mm)	Diameter and width of the wheel(mm)		Wheel linear speed (m/h)	Power of motor (kw)
			Rubber rollers	Metal rollers		
HGZ-05	5000	250-2300	Φ 250*100	2* Φ 240*20	6-60	0.75
HGZ-10	10000	320-2800	Φ 300*120	2* Φ 290*25	6-60	1.1
HGZ-20	20000	500-3500	Φ 350*120	2* Φ 340*30	6-60	1.5
HGZ-40	40000	600-4200	Φ 400*120	2* Φ 390*40	6-60	3
HGZ-60	60000	750-4800	Φ 450*120	2* Φ 440*50	6-60	4
HG-80	80000	850-5000	Φ 500*120	2* Φ 490*60	6-60	4
HGZ-100	100000	1000-5500	Φ 500*120	2* Φ 490*70	6-60	5.5
HGZ-150	150000	1000-6500	According to customer requirement		6-60	2*3



## 丝杆可调式滚轮架

Lead-Screw Adjustable Turning Roll



技术参数 Specification

Model	Max loading (kg)	Range of suitable work piece(mm)	Diameter and width of the wheel(mm)		Wheel linear speed (m/h)	Power of motor (kw)
			Rubber rollers	Metal rollers		
HGK-2	2000	200-1200	200*100	2*190*16	6-60	2*0.18
HGK-5	5000	250-2300	250*100	2*240*20	6-60	2*0.37
HGK-10	10000	300-2800	300*120	2*290*25	6-60	2*0.55
HGK-20	20000	500-3500	350*120	2*340*35	6-60	2*1.1
HGK-40	40000	600-4200	400*120	2*390*45	6-60	2*1.5
HGK-60	60000	750-4800	450*120	2*440*60	6-60	2*2.2
HGK-80	80000	850-5000	500*120	2*490*70	6-60	2*3
HGK-100	100000	1000-5500	500*120	2*490*80	6-60	2*3
HGK-150	150000	1100-6000	/	620*220	6-60	2*4
HGK-260	250000	1100-7500	/	660*260	6-60	2*5.5
HGK-400	400000	1100-7500	/	750*320	6-60	2*7.5
HGK-500	500000	1100-7500	/	750*400	6-60	2*11

# 焊接机器人

Welding Robot

ER6弧焊机器人

Type	ER 6
Capacity	6 kg
Wingspan	1600 mm



ER6 专用弧焊机器人手臂采用中空式设计，所有管路线缆均采用内置结构，减少电缆移动空间，缩小旋转半径，延长电缆使用寿命。配合全数字 IGBT 逆变电源，实现与焊接电源的总线通讯。可广泛应用于汽车、农用车、摩托车和工程机械等行业。

ER16弧焊机器人

Type	ER 16
Capacity	16 kg
Wingspan	1600 mm



ER16 专用弧焊机器人最大臂展 1.6 米，大于同类其他机器人作业半径。同时，可完美匹配多品牌焊接电源，并配有 ESTUN 专用弧焊软件包，满足客户高效、精准的焊接工艺要求。可广泛应用于汽车零部件、钢制家具、健身器材、置物架和农机零件等行业。

惠科机电不仅提供焊接工作站，同时可根据实际需要，提供完整焊接系统解决方案

## 案例

WINCOO not only provides welding workstations, but also provides complete welding system solutions according to actual needs.

### 弧焊



钢制家具行业焊接

汽车座椅支架焊接

农用车后桥支架焊接

### 点焊



车门防撞点焊

汽车底盘零件点焊

# 一体化焊接小车

## Universal MATIC Carriage

一体化小车将行走系统和摆动器集成在一起。小车结构轻巧，单人即可操作。小车可用于横焊、立缝和仰焊。小车适用于刚性轨道、半柔轨道和全柔轨道。

The integrated car integrates the walking system and the oscillator. Small compact structure, single can operate. Trolley can be used for horizontal welding, vertical seam and overhead welding. The trolley is suitable for rigid track, semi-flexible track and all flexible track.

### 技术参数 Specification

直行走速度 Travel Speed	75-1750mm/min
直摆动速度 Weave Speed	100-2500mm/min
两侧停留时间 Dwell Time	0-3s, 左右 left and right
负载 Load Capacity	14kg



# 气保焊摆动小车

## GMAW Welding Tractor

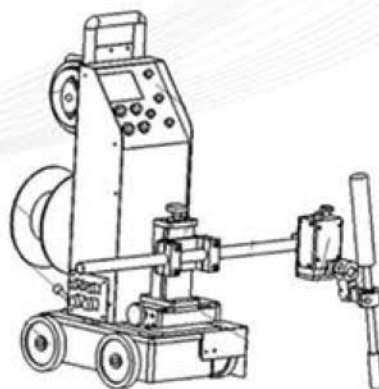
气保焊摆动小车分为直摆和角摆小车，可选配气冷与水冷焊枪。可用于各种低碳钢、低合金钢材料的自动焊接。焊接过程中，能有效增加焊缝宽度，一次焊接获得多次焊接的效果，大大地提高生产率；改善熔池边缘成型，消除“咬边”缺陷；焊缝表面清洁，尤其适合于带有坡口或无坡口的对接、角焊接、垂直立焊等，是对长焊缝焊接的理想设备之一。目前已经广泛应用于造船、压力容器、管道、大型钢结构等行业中。

改善熔池边缘成型，消除“咬边”缺陷；焊缝表面清洁，尤其适合

Gas welding swing car is divided into straight pendulum and Angle swing car, optional air and water cooled welding gun. It can be used for automatic welding of low carbon steel and low alloy steel. In the welding process, it can effectively increase the width of the welding seam, obtain the effect of multiple welding for one welding, and greatly improve the production rate. The edge molding of molten pool can be improved and the defect of "undercut" can be eliminated. Weld surface cleaning, especially for butt joint with or without groove, Angle welding, vertical vertical welding, etc., is an ideal equipment for long welding. At present, it has been widely used in shipbuilding, pressure vessel, pipe, large steel structure and other industries.

### 产品型号 Model

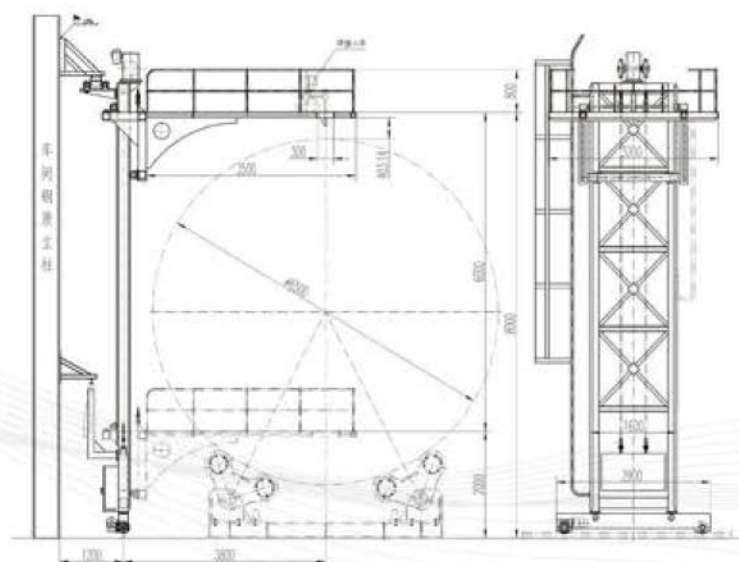
产品 PRODUCT 型号 MODLE	Linear Weaver 直线摆动 MOT-I	Pendulum Weaver 角摆动 MOT-II
摆动幅度 Weave Amplitude	0-95mm	0-20°
摆动角度 Weave Angle		±10°
额定载重 Load Capacity(kg)	5	5
最大摆动频率 Weave Frequency(times/min)		100
左右停留时间 Dwell Time	0-5s	0-5s



## Welding Platform

The suspension welding lifting platform can be matched with the welding roller rack, which is mainly used for the automatic welding of the outer ring joint (with the roller rack) and the outer longitudinal joint of the metal container and the metal welding structure. It is characterized by simple structure, convenient operation and small space. It is widely used in boiler, petrochemical and chemical industries.

平台升降行程 Vertical Stroke	6500mm
升降速度 Lifting Speed	800mm/min
升降制动电机功率 Motor Power	2.2KW
平台升降传动方式 Drive Method	链轮传动 Chain Drive



# 砂带打磨机

Industrial Belt Grinder

ABG-V/H 工业级砂带打磨机主要用于各种材质板材局部的修磨，焊缝的强力磨削加工。采用三相电机，功率大，效率高，操作简单，安全可靠。

ABG-V/H industrial belt grinding machine is mainly used for local grinding of all kinds of plates and strong grinding of welds. Using three-phase motor, high power, high efficiency, simple operation, safe and reliable.

## 技术参数 Specification

电机功率 Motor Power	4kw
打磨轮 Contact Wheel	200x75mm
平面打磨面 Flat Grinding Surface	420x75mm
砂带 Grinding Belt	75 x 2000mm
运行噪音 Noise	≤70 dB(A)



# 手推式砂带打磨机

## Tractor Sand Belt Grinder

ABG -H 型手推式砂带打磨机在驱动机构的作用下，砂带磨头 作稳定的高速运动，磨轮与工件接触，推动行走部件完成平面或 大型筒体的焊缝的磨削加工。

ABG -H type hand-pushed abrasive belt grinding machine under the action of driving mechanism, the abrasive belt grinding head makes stable high-speed movement, the grinding wheel contacts with the work piece, and pushes the walking parts to finish the grinding of the welding seam of plane or large barrel.

### 技术参数 Specification

电机功率 Motor Power	4kw
打磨轮 Contact Wheel	200x75/150mm
砂带 Grinding Belt	75/150 x 2000mm
最小筒体直径 Min Tube Diameter	Φ 2.0m
运行噪音 Noise	≦70dB(A)



# 焊缝余高打磨机

Reinforcement Grinder

ABG-T 型焊缝余高打磨机主要用于储罐环缝余高磨削。该机 包括操作机架、砂带打磨机头以及调节装置。该机的特点是比砂轮机安全、效率高、成型一致、以更低的成本完成工程。

ABG -T type weld over grinding machine is mainly used for high grinding of tank round seam. The machine includes operating frame, abrasive belt grinding head and adjusting device. It is characterized by safety, high efficiency, consistent molding and lower cost.

## 技术参数 Specification

最小筒体直径 Min Diameter	Φ 4.5m
适应板幅 Plate Width	1.4-3.2m
电机功率 Motor Power	4kw
打磨轮 Contact Wheel	200x75/150mm
砂带 Grinding Belt	75/150 x 2000mm
最小筒体直径 Min Tube Diameter	Φ 2.0m
运行噪音 Noise	≤ 70dB (A)



# 小筒体内孔打磨机

## Small Tube Grinder

ABG -S 型小筒体内孔打磨机主要用于直径较小的筒内纵缝抛光 打磨。  
其特点是自动化程序高，单人即可完成单打和抛光。

ABG -S type internal bore grinding machine is mainly used for polishing and polishing inside longitudinal joints of smaller diameter. Its features are high automation procedures, single can complete singles and polishing.

### 技术参数 Specification

电机功率 Motor Power	4kw
打磨轮 Contact Wheel	200x30mm
砂带 Grinding Belt	30x2000/3000/4000mm
最小筒体直径 Min Tube Diameter	Φ 300mm
运行噪音 Noise	≦ 70dB (A)



# 储罐倒装提供装置

Hydraulic Jacking Equipment

我们的储罐倒装提升装置主要用于倒装储罐施工，适用于炼油厂、石化装置、化肥厂、发电厂、原油装置安装和港口上的液体贮存装置。

Our Jacking System is mainly used for upside-down storage tank construction, which is suitable for oil refinery, petrochemical plant, chemical fertilizer plant, power plant, crude oil installation and liquid storage device in port.



# 储罐液压顶升

Hydraulic Jacking System

惠科是通过 ISO9001-2000 质量体系认证的国内专业生产大型储油倒装提升设备的厂家，本公司生产技术先进，并有十余年的提升设备生产经验，YT 系列储罐液压提升设备是本公司自主研究生产的系列产品，该系列产品因采用了先进的模块化设计理念，安装操作简单，质量可靠，可单独（单组或单台）提升高度调节，也可多组进行集中控制使用。通过十多年来的试验总结，我们不断地对生产工艺进行调节，使产品质量不断提高，得到广大用户的一致好评。

在过去的十几年里，我们的液压顶销往世界各地，尤其沙特阿拉伯、巴基斯坦、印度尼西亚、越南等中东地区和东南亚地区的国家。

WINCOO is specialized in the production of domestic large reservoir inversion lifting equipment manufacturers which is passed ISO9001-2000 quality system certification, we have advanced production technology, and a lifting equipment production experience of more than 10 years, YT series hydraulic lifting equipment storage tank is the company independent research and production of series products, this series of products by adopting the advanced modular design concept, installation simple operation, reliable quality, can separate (a single set or single) hoisting height adjustment, can also use multiple for centralized control.

Through more than ten years of experimental summary, we continue to adjust the production process, so that the product quality continues to improve, the majority of users have been unanimously praised.

Over the past decade, our hydraulic jacks have been sold all over the world, especially in Saudi Arabia, Pakistan, Indonesia, Vietnam and other countries in the Middle East and southeast Asia.



# 储罐液压顶升

## Hydraulic Jacking System

### Supply scope of jacking system

One Module include:

#### 1).1 set x Power Pump Station:

Hydraulic power supply, motor power 4KW, rated flow is about 15l/min.

#### 2).5 sets x jacking cylinder:

Including Hydraulic Jacking Device Components — Steel Cables, Support Device, Pull Rod, etc.

#### 3).5 sets x oil hoses system

One tank construction needs one jacking control system. Each jacking control system includes:

1 set x Electrical Controls and operating panels

Each set includes:

1 centralized PLC operation control box,

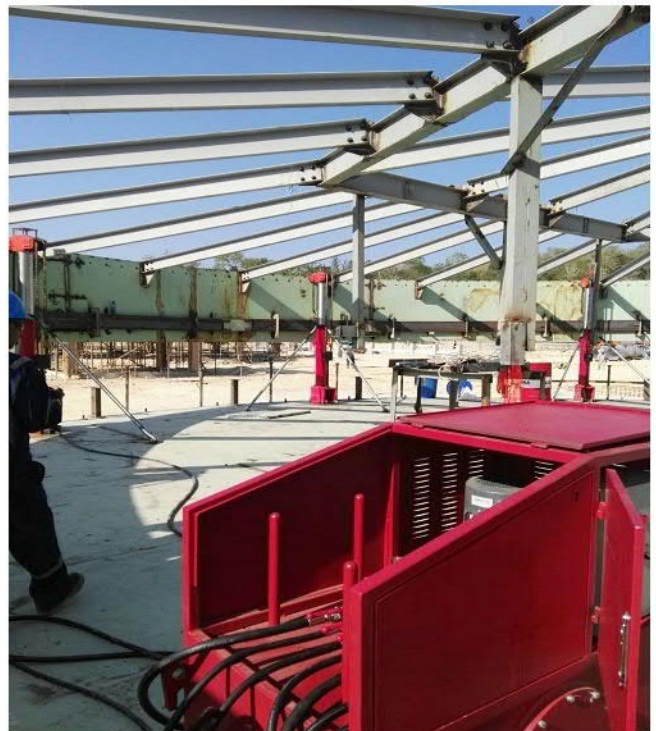
1 power source cabinet

With the concentrated push-button and automatic PLC control system or single-set handle operated control

Motor and PLC are with brand of SIMENS

Main electric element are Schneider brand

Hose with USA and China JV famous brand



# 储罐液压顶升

## Hydraulic Jacking System

### Features and application

#### ★ Application

- The equipment are mainly used for vertical tank top to bottom construction.
- Also it can be used for mega work piece jacking or lifting.

#### ★ Features

- The system consists of hydraulic pump station, cylinders, steel wire, and strokes. Easy to installation and operation;
- The system utilizes PLC central control to handle lift. Each power pack is equipped with auxiliary balance device to guarantee the precision of simultaneously lifting.
- Hydraulic lift pump station has subsidiary manual control and central control two operation models. The cylinder can be adjusted to lift separately or to lift with several others as one group, and multi groups can also be integrated to lift reach better precision and better welding effect.
- All the cylinders are with safety valve. It can be automatically locked to avoid cylinder/ tank dropping even under situation of power off, high-pressure hose broken, burst.
- The cylinder is with one high pressure hose to avoid oil leaking that usually happen by the traditional multiple hoses. Cylinder will return to initial condition by itself weight.
- Module configuration, the jacking system quantity can be adjusted as per different size of tank and weight
- High efficiency, each time lifting or falling down only needs around 15 minutes.
- Can well cooperate with our tank welding machines, which can greatly reduce the manpower cost and reduce the construction time; Usually one Horizontal seam welding machine can match 6-10 skilled welder. Vertical seam welding machine can match around 20-30 people skilled welder and butt/fillet welding tractor can match 6-15 skilled welder.

#### ★Cylinder quantity Calculation and Construction on different tanks

Principle of lift capacity: Loading capacity must be less than 80%

For example, a tank body weight is around 725tons and the doom roof is around 150 tons, so the total lifting weigh is around 900 tons. Principle of lift capacity: Loading capacity must be less than 80%. For example. a tank around 50000m<sup>3</sup>, Dia meter 50m, the tank maximum weight is 900tons excluding bottom plate weight, We recommend 50 pcs of YT25-2700C cylinders, each cylinder output power is 250Kn. So the total output power is 250\*50=12500kn.

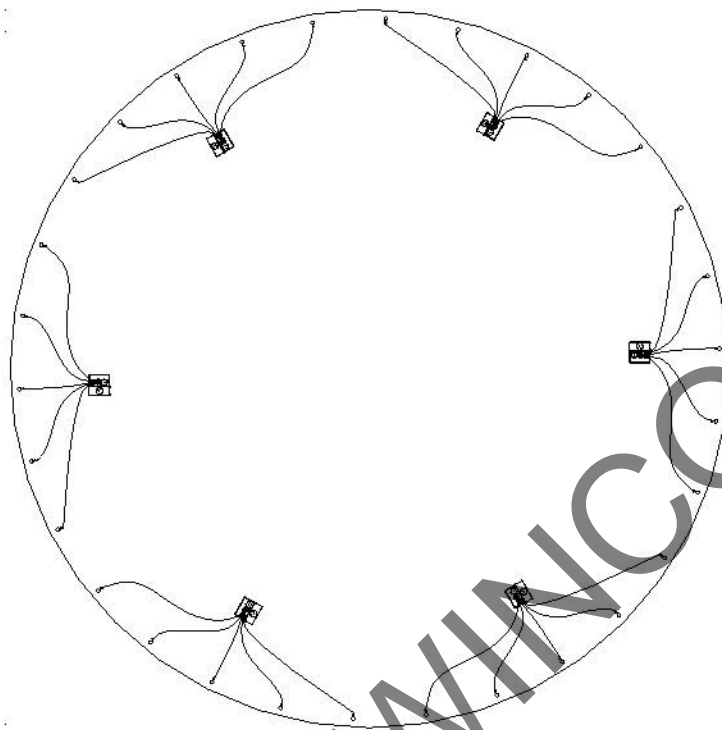
The system loading capacity is  $900 \times 9.8 \div 12500 \times 100\% \approx 70.56\%$ , which is under requirement of less than 80%

Interval distance:  $\text{Diameter } 50 \times 3.14 / 50 \text{ pcs} = 3.14 \text{ m}$

Model	Capacity
YT type	12T~400T
YT -C type	

# 储罐液压顶升

Hydraulic Jacking System



Layout of jacking system inside of tanks



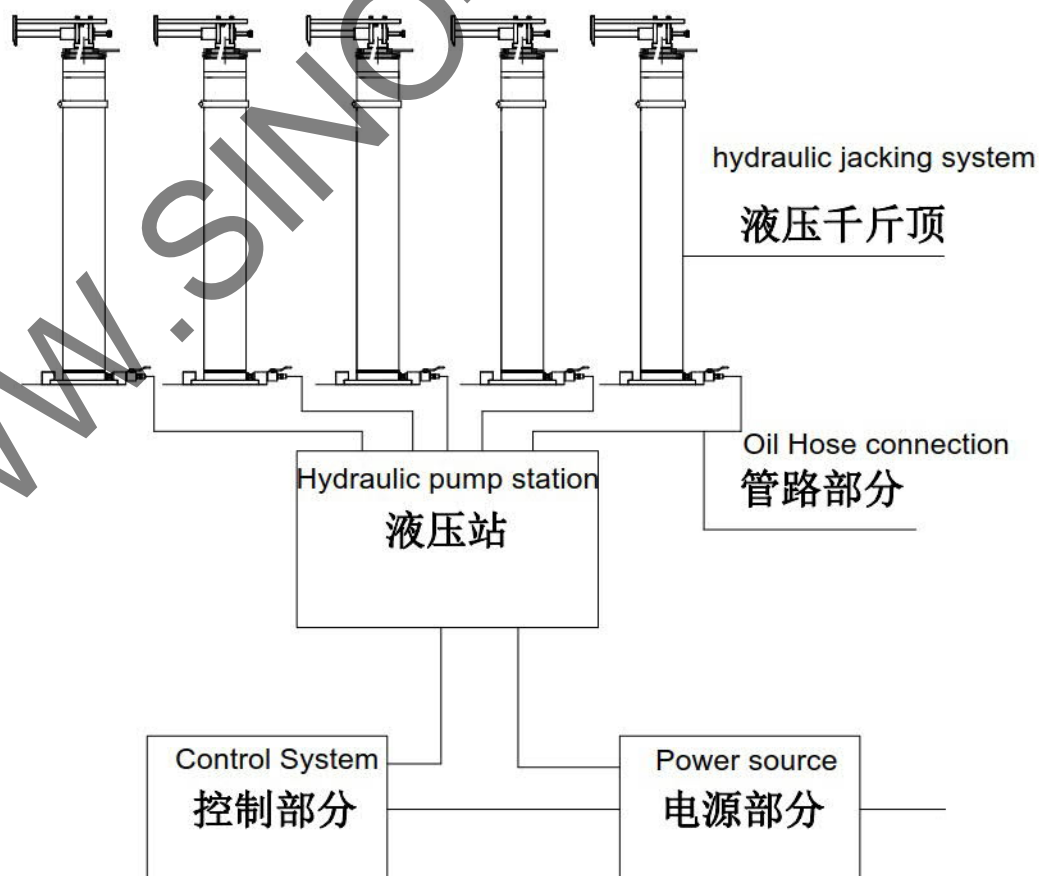
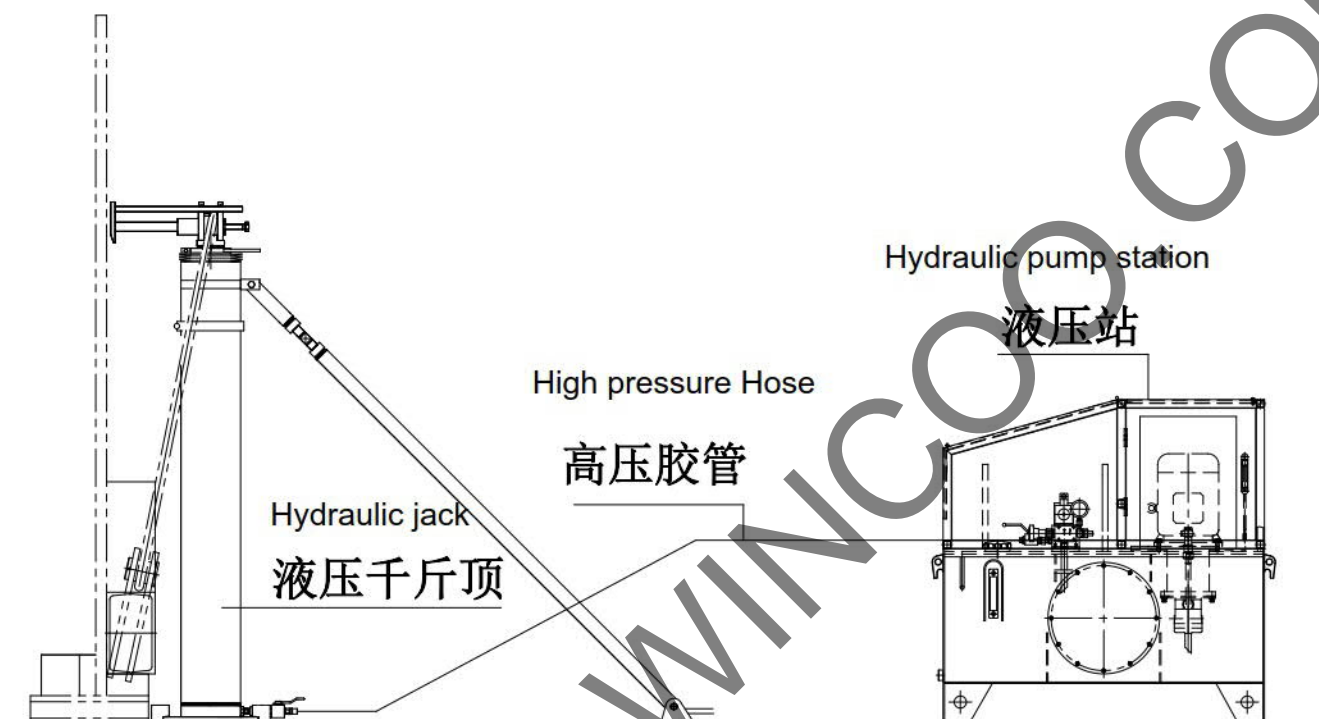
Export package



Pump station

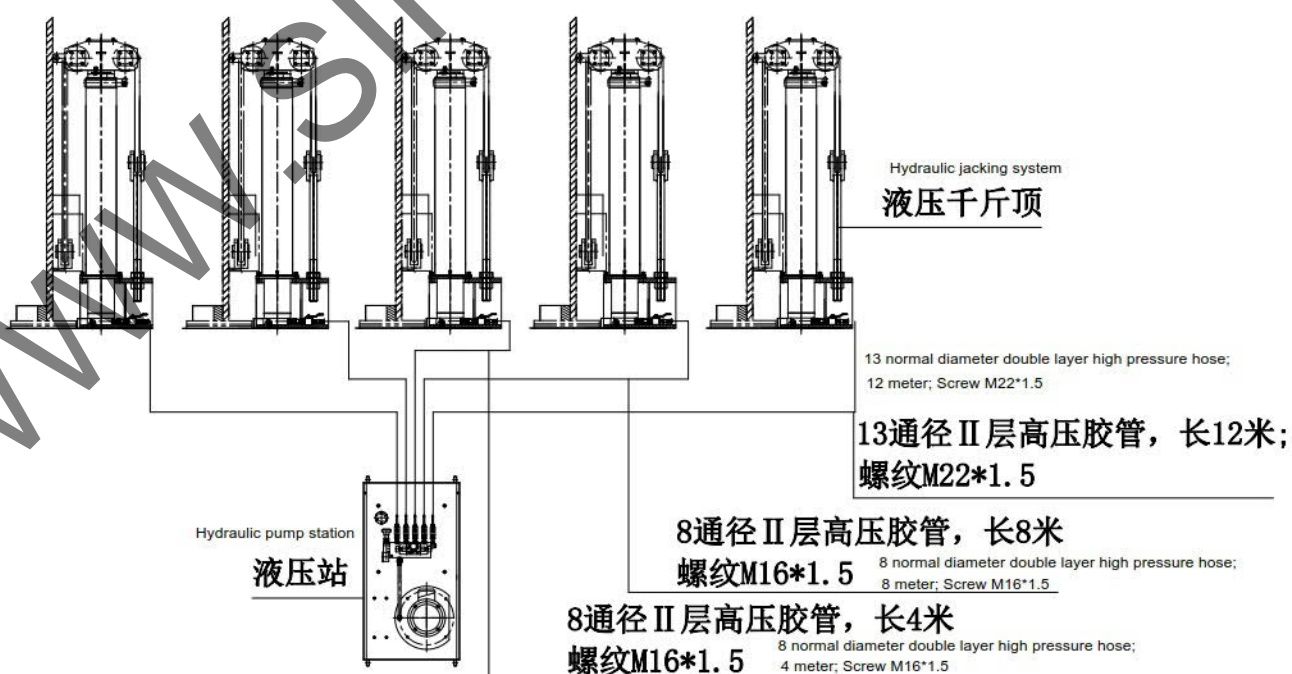
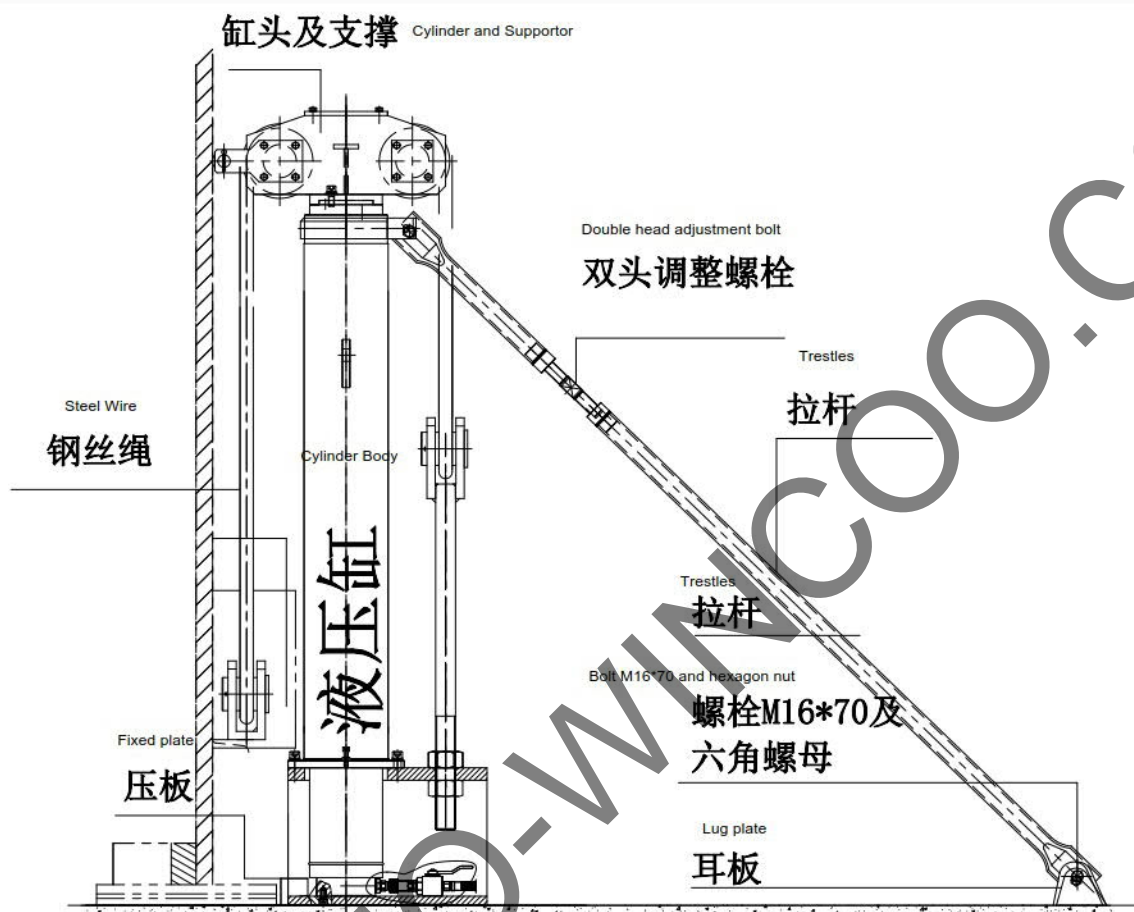
# 储罐液压顶升

Hydraulic Jacking System



# 储罐液压顶升

## Hydraulic Jacking System





# 储罐液压顶升

Hydraulic Jacking System



# 合作伙伴

Partners

