



国家高新技术企业
National High-tech
Enterprise



泰鑫机械

TAIXIN MACHINERY CONSTRUCTION ENGINEERING



24小时服务热线
24-hour service hotline

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微信公众号
WeChat official account



抖音视频号
Tiktok video number



用申鑫 更省心

Tai Xin Machinery, Your Best Choice

COMPANY INTRODUCTION

企业简介

TAIXIN 更优化的解决方案
泰鑫机械

焦作市泰鑫机械制造有限责任公司位于焦作新区，成立于2006年，注册资金捌仟万圆整，是集科研、生产、销售为一体的高端装备制造企业。公司相继设立了深圳悍虎实业有限公司、洛阳鑫邦科技有限公司、成都泰鑫众创科技有限公司、河南伟邦智能科技有限公司等多个子公司，在全国设立120个直属办事处及一级代理商。产品广泛应用于矿山井巷、铁路、公路、城市地铁、边坡工程、水利电力等工程建设。助力沈白高铁、川藏高铁、渝昆高铁、柳梧高铁、雄忻高铁、贵平高速、延榆高铁、天陇铁路、渝万高铁、成达万高铁、巴基斯坦Mohmand水电站项目、巴基斯坦DASU KKH-02左岸改线公路项目等国内外重点项目。

公司与中国工程机械研究所、河南理工大学等高校及科研机构有着长期的战略合作关系，相继获得专利89项、矿用产品标志36项；2013年获批“国家级高新技术企业”；2014年获批“焦作市喷注浆工程技术中心”；2017年评为焦作市“双50”企业；2019年以来，连续入围中铁、中交等多家央企年度框架供应商；2021年获得专精特新“小巨人”称号；2022年连续获批“国家级高新技术企业”；2023年获批河南省工业设计中心。泰鑫公司正在以崭新的姿态，为打造集团化产业集群而踔厉奋发，勇毅前行！

Jiaozuo Taixin Machinery Manufacturing Co., Ltd. is located in Jiaozuo New District. It was established in 2006 with a registered capital of eighty million yuan. It is a high-end equipment manufacturing enterprise integrated scientific research, production and sales. The company has successively established Shenzhen Besi Tiger Industry Co., Ltd., Luoyang Xinbang Technology Co.Ltd., Chengdu Taixin Zhongchuang Technology Co., Ltd., Henan Weibang Intelligent Technology Co., Ltd. and other subsidiaries, and has established 120 directly affiliated offices and first-level offices across the country agent. The products are widely used in the construction of mine tunnels,railways, highways, urban subways, slope engineering, water conservancy and electricity and other engineering projects. Assisting national key projects such as Shenbai High-speed Railway,Sichuan-Tibet High-speed Railway, Chongqing-Kunming High-speed Railway, Liu-Wu High-speed Railway, Xiongxin High-speed Railway, Guiping High-speed Railway, Yanyu High-speed Railway, Tianlong Railway, Yu-Wanzhou High-speed Railway, Chengda-Wanzhou High-speed Railway, Pakistan's Mohmand Hydropower Station Project, Pakistan's DASU KKH-02 Left Bank Realignment Highway Project and other key domestic and foreign projects.

The company has long-term strategic cooperative relationships with universities and scientific research institutions such as China Engineering Machinery Research Institute, Henan Polytechnic University, and has successively obtained 89 patents and 36 mine certification products. In 2013, it was approved as a "National High-tech enterprise". In 2014, it was approved as "Jiaozuo Concrete Spraying and Motar Grouting Engineering Technology Center". In 2017, it was rated as a "Double 50" enterprise in Jiaozuo City, Since 2019, it has been continuously shortlisted as the annual framework supplier of many central enterprises such as China Railway and China Communications Construction Company. In 2021, he will be awarded the title of "Little Giant" for specialization. In 2022, it was continuously approved as a "National High-tech Enterprise". It will be approved as Henan Provincial Industrial Design Center in 2023.Taixin Company is working hard to build a collectivized industrial cluster with a new attitude and forge ahead bravely!

QUALIFICATION & HONORS

企业资质荣誉 (部分)

立足国内 服务全球

Base on Domestic Service to the World

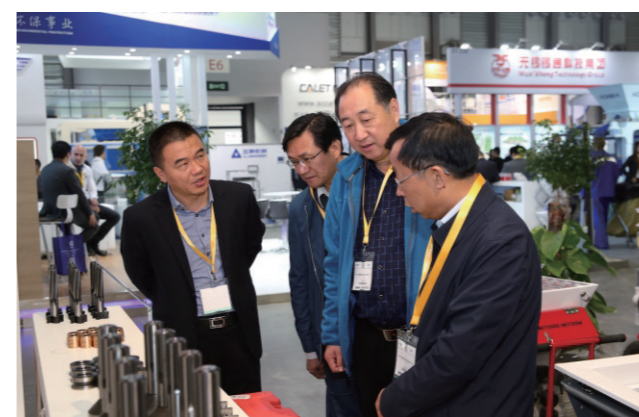


TEACHING SCENE

申鑫工程技术培训学校教学现场

为贯彻落实企业核心理念,更好服务于广大客户。2018年,公司在行业中率先成立桥隧装备专业技能培训机构-----申鑫工程技术培训学校,学校以“提升服务行业能力”为已任,实行全免费、小班制教学方针,为各施工单位输入了大批凿岩台车、混凝土湿喷机组、立拱架台车、智能钢筋加工设备 etc 桥隧施工设备的专业技能人才。

To implement the core development concept of the enterprise and better serve our customers. In 2018, the company took the lead in establishing the Shenxin Engineering Technology Training School, a professional skills training institution for bridge and tunnel equipment in the industry. The school takes "improving service industry capabilities" as its mission and implements a fully free, small class teaching policy. It has provided a large number of professional skilled personnel for bridge and tunnel construction equipment such as rock drilling jumbo, shotcrete manipulator, vertical arch frame trolley, and intelligent steel bar processing equipment to various construction units.



EXHIBITION SCENE

展会现场 (部分)

立足国内 服务全球

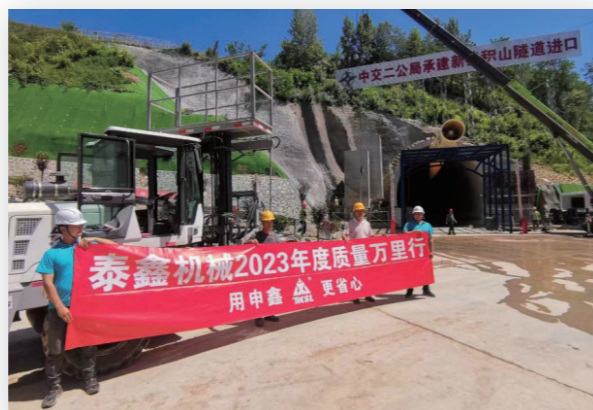
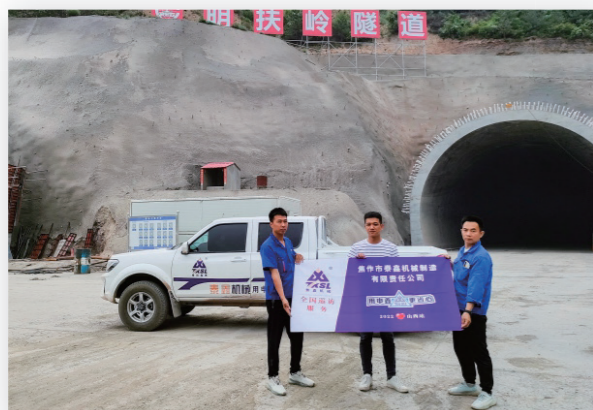
Base on Domestic Service to the World

AFTER-SALE SERVICE

全国质量万里行

立足国内 服务全球

Base on Domestic Service to the World



AFTER-SALE SERVICE

全国质量万里行

质量--企业的生命线, 发展壮大的根基。过硬的产品质量是所有工作的前提, 把质量放在首位, 打造过硬品质设备, 树立申鑫品牌形象!

Quality - the lifeline of an enterprise and the foundation for its development and growth. Excellent product quality is the prerequisite for all work. Put quality first, build excellent quality equipment, and establish the brand image of Shenxin!

Product DISPLAY 产品展示



应用范围:

TX系列凿岩台车, 适用于高铁隧道、高速公路隧道、水电站巷道、矿山巷道的锚杆施工和掘进施工, 可以满足客户不同需求。

性能特点:

- 采用全液压控制, 可靠性好, 环境适应性强, 易于操作、保养和维修, 具有超高性价比。
- 采用轮胎式底盘, 铰接式转向设计 (部分机型), 转弯半径小, 通过性能好。
- 采用内燃-电机双动力, 行走、定位时采用内燃机驱动, 工作时采用电机驱动, 内燃机满足国家排放要求, 更加环保节能。
- 整机核心零部件采用原装进口品牌产品, 可确保产品在隧道恶劣环境中使用的高可靠性及操控先进性。
- 不同作业范围均有机型对应, 满足高铁、高速公路隧道锚杆施工、单线铁路隧道、矿山巷道掘进及锚杆施工需要。
- 吊篮 (部分机型选配) 最大承重400kg, 可作为测量、装药、安装锚杆、质量检查的平台, 吊篮可双向旋转90°, 作业时更贴近掌子面, 方便操作。
- 电气系统采用CAN通讯连接技术, 模块化的分区域布局设计, 简化线路, 提高了可靠性。



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凿岩台车系列 Rock Drilling Jumbo Series

Application:

TX series rock drilling jumbo adopt tire-type chassis, and various models can be purchased according to user needs. They are suitable for bolting construction and tunneling construction of high-speed railway tunnels, expressway tunnels, hydropower station roadways, and mine roadways, and can meet the different needs of customers.

Main Features:

- It adopts full hydraulic control, good reliability, strong environmental adaptability, easy operation, maintenance and repair, and has super high cost performance.
- It adopts tire-type chassis, articulated steering design, small turning radius and good passing performance.
- It adopts combustion engine and motors dual power, uses an internal combustion engine to drive when walking and positioning, and uses electric motor to drive when working. The internal combustion engine meets the national emission requirements and is more environmentally friendly and energy-saving.
- The core components of the whole machine adopt imported brand products, which can ensure the high reliability and advanced control of the product in the harsh environment of the tunnel.
- Large operating range: the maximum height of bolt construction is 13m, and the maximum width is 19m; the maximum height of tunneling construction is 9.3m and the maximum width is 13m. It meets the needs of high-speed railway, expressway tunnel bolt construction, single-track railway tunnel, mine roadway excavation and bolt construction.
- The hanging basket (optional for some models) has a maximum load-bearing capacity of 450kg, which can be used as a platform for measurement, charging, bolt installation, and quality inspection. The hanging basket can rotate 90° in both directions, and it is closer to the working surface during operation, which is convenient for operation.
- The electrical system adopts CAN communication connection technology, and the modular sub-area layout design simplifies the wiring and improves the reliability.



整机参数表

项目	单位	TXZY-11	TXZY-21	TXZY-31	
整机参数	总重	kg	27000	38000	52000
	外形尺寸 (括号内为驾驶室及顶棚全部升起后尺寸)	mm	16052×2440×2853(3553)	16457×2440×2853(4153)	17895×3005×3450(5200)
	最大作业断面(宽×高)	m	锚杆施工 19×13 掘进施工 13×9	锚杆施工 20.5×13 掘进施工 14.8×9	锚杆施工 20.9×16.5 掘进施工 15.2×13.1
	最小作业断面(宽×高)	m	锚杆施工 7.5×7.5 掘进施工 3×4	锚杆施工 7.5×7.5 掘进施工 4×4	锚杆施工 7.5×7.5 掘进施工 6×6
	装机总功率	kW	63	121	177
	最小离地间隙	mm	320	422	305
	接近角/离去角	°	20/20	16/19	19/15.5
底盘参数	最高行驶速度	km/h	15	15	15
	爬坡度	°	15	15	15
	转弯半径(外侧/内侧)	m	8/4.8	8/4.8	12.8/7.5
	车架形式/驱动形式	/	铰接式/四轮驱动	铰接式/四轮驱动	整体式/四轮驱动
	车桥/制动系统		湿式车桥, 液压双回路, 驻车、行车制动		
	内燃机功率	kW	129	129	194
凿岩机参数	功率	kW	18	18	18 (可选配22/27)
	冲击频率	Hz	60	60	60
	钻孔效率	m/min	1-2	1-2	1-2
	最大孔径	mm	Φ102	Φ102	Φ45-Φ102
机械臂参数	臂架配置	/	一臂一篮	两臂一篮	三臂一篮
	钻臂伸缩行程	mm	1600	1800	1800
	钻臂左右摆动角度	°	±45	±45	±45
	钻臂举升/下摆角度	°	+60/-30	+60/-45	+65/-30
	推进俯仰	°	+3/-90	90	90
	推进器翻转	°	360(螺旋式)	360(螺旋式)	360(螺旋式)
	推进梁长度	mm	6315	6950	6950
	钻孔深度	mm	4500	5214	5214
	推进器补偿长度	mm	1800	1800	1800
	吊篮臂伸缩行程	mm	4000	4000	5600
	吊篮臂左右摆动角度	°	±45	±45	±45
	吊篮臂举升/下摆角度	°	+60/-35	+60/-35	57/-30
	吊篮额定载荷	kg	400	400	400
	电器系统	主电机功率	kW	55	55×2
电压		V	380	380	380
电缆长度		m	100	100	100
空压机功率/效率/压力		/	4 kW /0.5m ³ /min/8bar	5.5 kW/0.8m ³ /min/8bar (螺杆式)	11kW/1.97m ³ /min/8bar (螺杆式)
其它功能配置	电缆卷筒/电缆长度	/	有/100m	有/100m	有/100m
	水泵/流量/水压	/	离心式 /67L/min/15bar	离心式 /133L/min/15bar	离心式 /250L/min/15bar
	顶棚升降行程	mm	700	700	700

MACHINE PARAMETER

Project	Unit	TXZY-11	TXZY-21	TXZY-31	
Machine parameters	Total weight	kg	27000	38000	52000
	Dimensions (in brackets are the dimensions after the cab and roof are fully raised)	mm	16052×2440×2853(3553)	16457×2440×2853(4153)	17895×3005×3450(5200)
	Max. working section (W x H)	m	Anchor construction 19×13 Excavation construction 13×9	Anchor construction 20.5×13 Excavation construction 14.8×9	Anchor construction 20.9×16.5 Excavation construction 15.2×13.1
	Min. working section (W x H)	m	Anchor construction 7.5×7.5 Excavation construction 3×4	Anchor construction 7.5×7.5 Excavation construction 4×4	Anchor construction 7.5×7.5 Excavation construction 6×6
	Total installed power	kW	63	121	177
	Min. ground clearance	mm	320	422	305
	Approach / departure angle	°	20/20	16/19	19/15.5
	Chassis parameters	Max. driving speed	km/h	15	15
Gradeability		°	15	15	15
Turning radius(outside/inside)		m	8/4.8	8/4.8	12.8/7.5
Frame type/drive type		/	Articulated/four-wheel drive	Articulated/four-wheel drive	Articulated/four-wheel drive
Axle/brake system			Wet axle, hydraulic dual circuit, parking and service brakes		
Internal combustion engine power		kW	129	129	194
Rock drill	Power	kW	18	18	18 (Optional 22/27)
	Impact frequency	Hz	60	60	60
	Drilling efficiency	m/min	1-2	1-2	1-2
	Max. aperture	mm	Φ102	Φ102	Φ45-Φ102
Arm parameters	Arm configuration	/	One arm, one basket	Two arms, one basket	Three arms and one basket
	Drill arm telescopic stroke	mm	1600	1800	1800
	Drill arm swing angle	°	±45	±45	±45
	Drill arm lift/swing angle	°	+60/-30	+60/-45	+60/-30
	Advance pitch	°	+3/-90	90	90
	Thruster flip	°	360(spiral)	360(spiral)	360(spiral)
	Push beam length	mm	6315	6950	6950
	Drilling depth	mm	4500	5214	5214
	Thruster compensation length	mm	1800	1800	1800
	Basket arm telescopic stroke	mm	4000	4000	4000
	Basket arm left/right swing angle	°	±45	±45	±45
	Basket arm lift/swing angle	°	+60/-35	+60/-35	57/-30
	Rated load of basket	kg	400	400	400
	Electrical system	Main motor power	kW	55	55×2
Voltage		V	380	380	380
Cable length		m	100	100	100
Air compressor power/efficiency/pressure		/	4 kW /0.5m ³ /min/8bar	5.5 kW/0.8m ³ /min/8bar (spiral)	11kW/1.97m ³ /min/8bar (spiral)
Other functional configurations	Cable drum/cable length	/	Have/100m	Have/100m	Have/100m
	Water pump/flow/water pressure	/	Centrifugal /67L/min/15bar	Centrifugal /133L/min/15bar	Centrifugal /250L/min/15bar
	Cab lifting stroke	mm	700	700	700

🔍 凿岩台车系列 Rock Drilling Jumbo Series



TXMT-1A 凿岩台车
TXMT-1A rock drilling jumbo



TXZY-2A 凿岩台车
TXZY-2A rock drilling jumbo



TXZY-11 凿岩台车
TXZY-11 rock drilling jumbo

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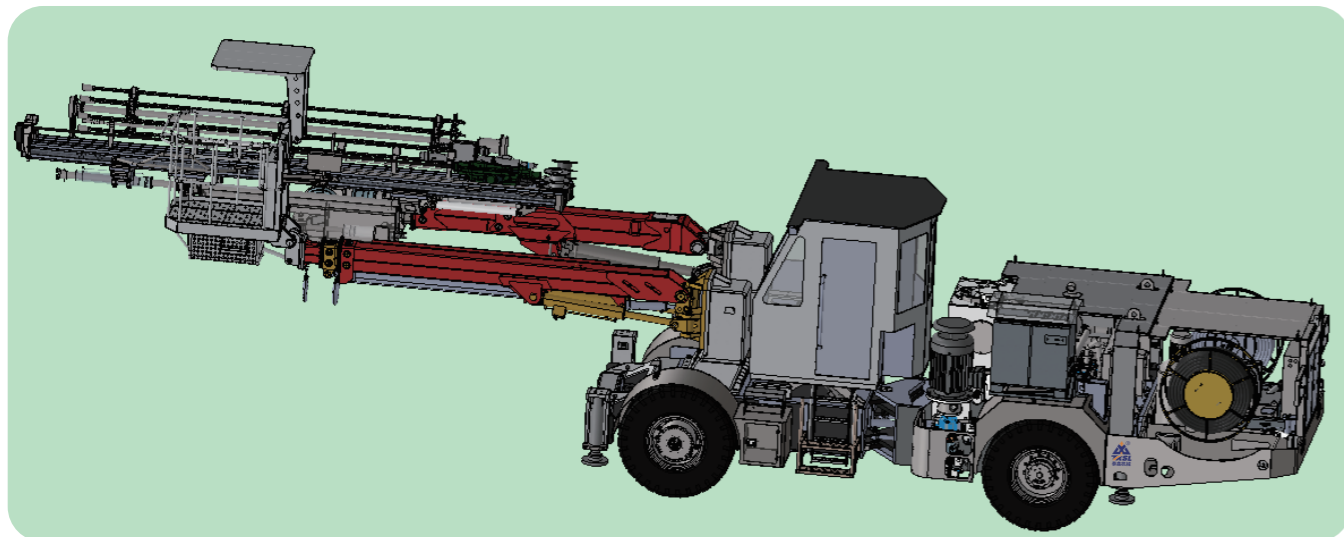
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应用范围:

TXMZ-11智能钻锚注一体台车是一款专门针对国内隧道施工工况研发的产品,它集打锚杆孔、自动安装锚杆和注浆三大功能于一体,实现一机多用的目的,大大加快施工效率,减轻工人作业劳动强度。该机采用电比例液压控制,并配备两条推进梁,一条用于打锚杆孔,另一条用于安装锚杆和注浆。TXMZ11锚注一体机适用于铁路、公路、国防、水利、矿山等大中型隧道的锚杆作业,最大施工宽度可达18米,最大施工高度可达12米。

性能特点:

- 采用工程底盘,四轮驱动,动力更强劲。
- 遥控操作,简单方便,智能化程度高,上手速度快。
- 车载数据中心可实时记录锚杆数量、深度、注浆量、注浆压力等参数以供实时查看并与铁科院联网互通。
- 高原大功率发动机,可适应5000m高海拔施工,动力强劲,性能稳定。
- 配置全封闭高原型驾驶室,防岩爆网,双动力冷暖空调。



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TXMZ-11 智能钻锚注一体台车

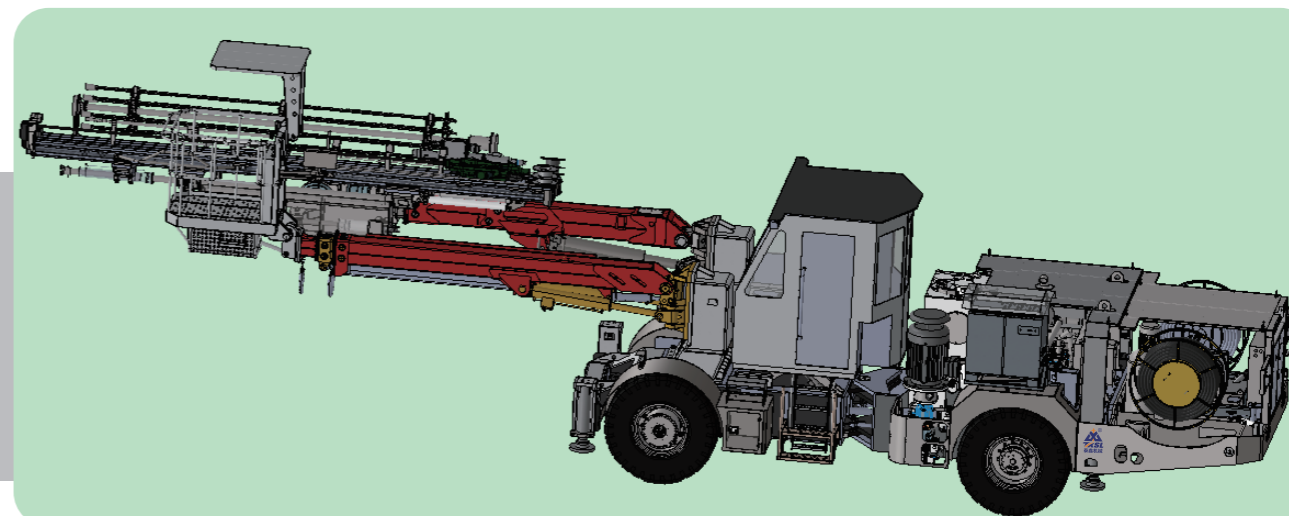
TXMZ-11 Intelligent Drilling Anchoring and Grouting Trolley

Application:

TXMZ-11 intelligent drilling anchoring and grouting trolley is a product specially developed for domestic tunnel construction conditions. It integrates three functions of anchor hole drilling, automatic anchor installation and grouting, achieving the purpose of one machine for multiple uses. It greatly speeds up construction efficiency and reduces the labor intensity of workers. The machine adopts electric proportional hydraulic control and is equipped with two propulsion beams, one for anchor hole drilling and the other for anchor installation and grouting. It is suitable for anchor operations in large and medium-sized tunnels such as railways, highways, national defense, water conservancy, and mines. The maximum construction width can reach 18m and the maximum construction height can reach 12m.

Features:

- It also has the function of installing mechanical shell anchor, resin anchor and cement mortar anchor.
- Remote control operation is simple and convenient, with high intelligence and quick start.
- The on-board data center can record the number, depth, grouting volume, grouting pressure and other parameters of anchors in real time for real-time viewing and inter-connection with the Institute of Railway Science.
- The high-power plateau engine can adapt to construction at an altitude of 5000m, with strong power and stable performance.
- It is equipped with a fully enclosed plateau cab, anti-rock burst net, and dual-power heating and cooling air conditioner.



整机 参数表

项目	性能指标	单位	参数
整机参数	总重	t	30
	长x宽x高	mm	15500x2440x1510
	锚杆作业范围(宽x高)	m	18x12
底盘参数	行走方式	/	轮式
	驱动方式	/	四轮驱动
	转向	°	铰接转向 ±35
	发动机功率	kW	132
	最高车速	Km/h	15
	最大爬坡度	°	15
吊篮臂	吊篮数量	PC	1
	俯仰角度	°	-35~+60
锚杆仓	锚杆容量	PCS	10
	最大长度	mm	4500
注浆泵	注浆能力	m ³ /h	3
	注浆压力	MPa	0-4
	水灰比	W/C	≥0.3
	料斗容积	L	120
	最大骨料直径	mm	4
推进梁	长度	mm	6315
	钻杆长度	mm	4915
	钻孔深度	mm	4610
凿岩机参数	钎尾	/	T38/R32
	冲击功率	kW	18
	旋转扭矩	N.m	740
	最大转速	r/min	300
钻臂	推进补偿行程	mm	800
	钻臂伸缩行程	mm	1800
	钻臂俯仰角度	°	-30~+60
	钻臂摆动角度	°	±50
供气系统	空压机功率	kW	7.5
	排气量	m ³ /min	1
	最大气压	MPa	0.8
供水系统	流量	L/min	133
	额定压力	bar	15
	水缆卷筒容量	m	80
电气系统	主电机功率	kW	55/75
	供电电压	V	380
	电缆卷筒容量	m	100

MACHINE PARAMETER

Item	Performance	Unit	Parameter
Machine parameters	Total weight	t	30
	L x W x H	mm	15500x2440x1510
	Anchor operating range (W x H)	m	18x12
Chassis parameters	Walking style	/	Wheeled
	Drive mode	/	Four-wheel drive
	Steering	°	Articulated steering ±35
	Engine power	kW	132
	Max. speed	Km/h	15
	Max. climbing grade	°	15
Basket arm	Hanging baskets number	PC	1
	Pitch Angle	°	-35~+60
Anchor barrel	Anchor capacity	PCS	10
	Max. length	mm	4500
Grouting pump	Grouting Capacity	m ³ /h	3
	Grouting pressure	MPa	0-4
	Water-cement ratio	W/C	≥0.3
	Hopper capacity	L	120
	Max. aggregate size	mm	4
Propulsion beam	Length	mm	6315
	Drill rod length	mm	4915
	Drilling depth	mm	4610
Rock drill parameters	Shank tail	/	T38/R32
	Impact power	kW	18
	Rotational torque	N.m	740
	Max. speed	r/min	300
Drill arm	Propel compensation stroke	mm	800
	Drill arm telescopic stroke	mm	1800
	Drill arm pitch angle	°	-30~+60
	Drill arm swing angle	°	±50
Gas supply system	Air compressor power	kW	7.5
	Exhaust volume	m ³ /min	1
	Max. air pressure	MPa	0.8
Water supply system	Flow	L/min	133
	Rated pressure	bar	15
	Water cable drum capacity	m	80
System	Main motor power	kW	55/75
	Voltage	V	380
	Cable drum capacity	m	100

应用范围:

TXGJ-315C智能拱架台车是我公司研发的一款具备拱架安装、锚杆网片安装、钢筋网铺设、辅助打钻、装药、处理欠挖作业、辅助质量检测、风水管安装、缺陷修补等多功能、多用途的新型隧道施工设备。采用新的立架工艺,可单次进行2~3榀预制焊接拱架的安装,真正解决传统人工立架施工时间过长、人员劳动强度大、危险性高的问题,满足机械化快速施工的要求。

性能特点:

- 双向驾驶:设备前后各设计有驾驶室,不用在隧道内掉头。
- 湿式制动的四轮驱动四轮转向:可靠的湿式制动前后桥保证了设备良好的制动性能,四轮驱动保证了设备对各种复杂路况的良好适应能力及脱困能力,四轮转向系统让设备更加灵活的应对各种狭窄的空间和复杂路况。
- 高效的动力系统:采用电动、柴动应急系统,隧道适应能力强。
- 三臂三吊篮三抓手:三个臂架同时抓取和安装钢拱架,施工效率高。
- 臂架动作采用无线遥控操作,易于精确控制机械臂的动作,具有快速、高效、节能、安全等特点。
- 欠挖处理:设备左右两个机械臂分别配备有欠挖处理装置——破碎锤。
- 三台便携式逆变直流380V手工电焊机及三个置于吊篮内的焊把,操作手可快速进行焊接网片和拉筋。



Application:

The TXGJ-315C intelligent arch frame trolley is a new type of tunnel construction equipment developed by our company, which has multiple functions and uses, including arch frame installation, anchor rod mesh installation, steel mesh laying, auxiliary drilling, loading, handling underexcavation operations, auxiliary quality inspection, wind and water pipe installation, and defect repair. By adopting a new arch installation technology, 2-3 prefabricated welded arches can be installed in a single operation, truly solving the problems of traditional manual scaffolding construction time being too long, personnel labor intensity being high, and high danger, meeting the requirements of mechanized and rapid construction.

Main Features:

- Two-way driving: The equipment is designed with a driver's cab at the front and back, so there is no need to turn around in the tunnel.
- Wet braking with four-wheel drive and four-wheel steering: The reliable wet braking front and rear axles ensure good braking performance of the equipment, while four-wheel drive ensures the equipment's good adaptability and ability to overcome various complex road conditions. The four-wheel steering system makes the equipment more flexible in dealing with various narrow spaces and complex road conditions.
- Efficient power system: adopting electric and diesel emergency systems, with strong tunnel adaptability.
- Three arms, three hanging baskets, and three grippers: Three arms simultaneously grab and install steel arches, resulting in high construction efficiency.
- The arm movement adopts wireless remote control operation, which is easy to accurately control the movement of the mechanical arm, and has the characteristics of fast, efficient, energy-saving, and safe.
- Underexcavation treatment: The left and right robotic arms of the equipment are equipped with under excavation treatment devices - crushing hammers.
- Three portable inverter DC 380V manual welding machines and three welding handles placed in the hanging basket allow the operator to quickly weld the mesh and tie bars.

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智能拱架台车系列 Intelligent Arch Frame Trolley Series



整机 参数表

项目	性能指标	单位	参数
整机参数	总重	t	29
	长×宽×高	mm	11000×3000×3600
	工作方式	/	电动, 柴动应急
	控制方式	/	无线遥控
底盘参数	发动机型号/功率	kW	康明斯/129
	电机功率	kW	55
	驾驶模式	/	双向驾驶 (前后各一)
	底盘形式	/	工程底盘
	驱动及转向形式	/	四轮驱动、四轮转向
	最小离地间隙	mm	400
	最小转弯半径	m	15 (两轮) / 8 (四轮)
	最大行驶速度	km/h	15
	行车制动	/	多片式湿式制动
	接近角	°	17
离去角	°	15	
主臂参数	最大举升能力	t	3
	最大安装高度	m	12
	最大安装宽度	m	5
	仰俯角度	°	-7—55
	回转角度	°	-10—10
	臂架节数	/	3
左右臂参数	最大举升能力	t	1.5
	最大安装高度	m	12.5
	最大安装宽度	m	15
	仰俯角度	°	-7—55
	回转角度	°	-8—40
	臂架节数	/	3
其它	电焊机	台	3
	破碎锤	台	2

MACHINE PARAMETER

Item	Performance	Unit	Parameter
Machine parameters	Total weight	t	29
	L×W×H	mm	11000×3000×3600
	Working mode	/	Electric, diesel powered emergency
	Control method	/	Wireless remote control
Chassis parameters	Engine model/power	kW	Cummins/129
	Motor power	kW	55
	Driving mode	/	Two way driving (one in front and one in the back)
	Chassis form	/	Engineering chassis
	Driving and steering forms	/	Four wheel drive, four-wheel steering
	Min. ground clearance	mm	400
	Min. turning radius	m	15 (two wheels)/8 (four wheels)
	Max. driving speed	km/h	15
	Service braking	/	Multi disc wet braking
	Approach angle	°	17
Departure angle	°	15	
Main arm parameters	Max. lifting capacity	t	3
	Max. installation height	m	12
	Max. installation width	m	5
	Pitch angle	°	-7—55
	Rotation angle	°	-10—10
	Number of arm segments	/	3
Left and right arms parameter	Max. lifting capacity	t	1.5
	Max. installation height	m	12.5
	Max. installation width	m	15
	Pitch angle	°	-7—55
	Rotation angle	°	-8—40
Other	Electric welding machine	Set	3
	Crushing hammer	Set	2

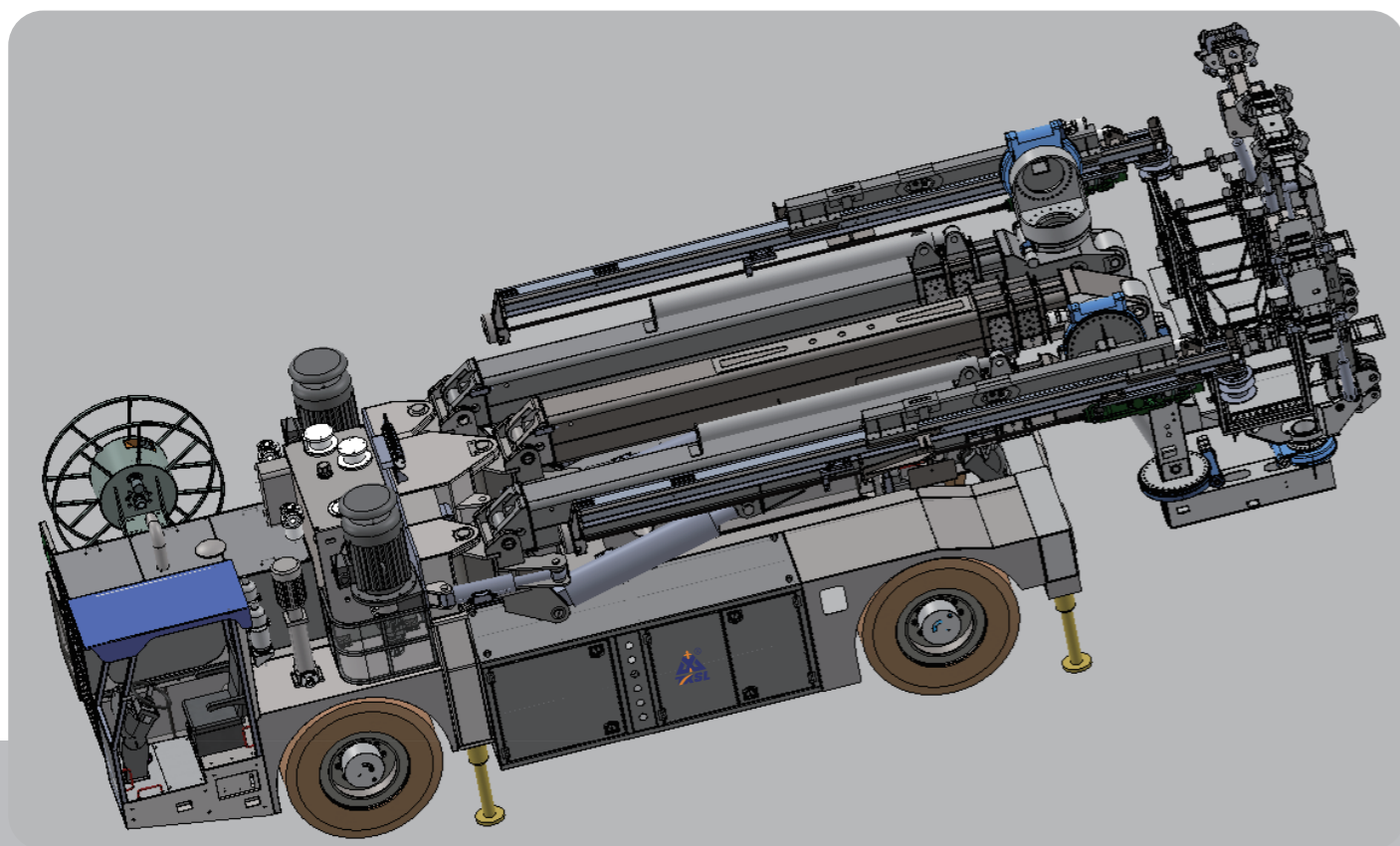
产品简介:

适用于矿山巷道、公路铁路隧道、水利水电和抽水蓄能电站的拱架安装、以及锚杆钻孔、欠挖处理、装药作业、锚杆注浆、隧道检测、场内高空作业等工况。

三条臂均采用遥控器控制，满足预制拱架安装、多种台阶法作业及拱架定位调整，拱架安装时可处理欠挖及焊接作业，隧道适应能力强。

产品特点:

- 采用工程底盘，四轮驱动，动力更强劲。
- 具备二轮/四轮转向(可自由切换)、自动对中、双向驾驶等功能。
- 配备东风康明斯高原发动机+山推变矩器、变速箱。
- 搭载双锚杆系统，左右臂可单独钻锚杆孔。
- 双电机泵系统，任何一个电机泵系统都可控制三条臂的立拱功能。
- 拱架安装时可处理欠挖及焊接作业，隧道适应能力强。
- 柴电双动力系统，电动施工，柴动应急。



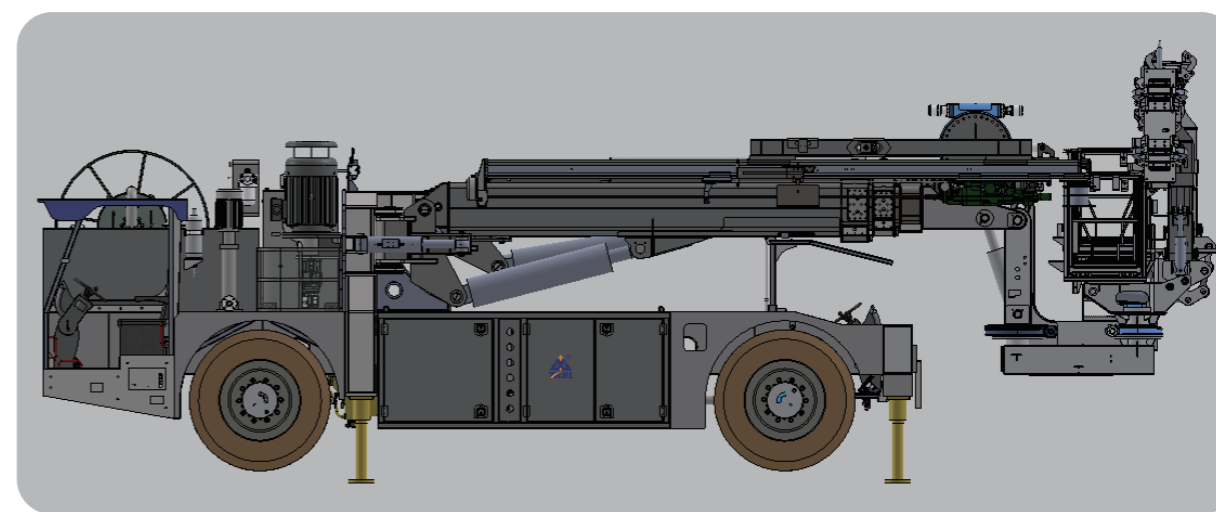
Product Brief Introduction:

It is suitable for arch installation in mine tunnels, highway and railway tunnels, water conservancy and hydropower and pumped storage power stations, as well as anchor drilling, under-break treatment, charging operations, anchor grouting, tunnel inspection, high-altitude operations on site and other working conditions.

All three arms are controlled by a remote control to meet the requirements of prefabricated arch installation, various step-method operations and arch positioning adjustment. During arch installation, it can handle under-excavation and welding operations, and has strong tunnel adaptability.

Product Feature:

- Adopt engineering chassis, four-wheel drive, more powerful power.
- It has functions such as two-wheel/four-wheel steering (freely switchable), automatic centering, and two-way driving.
- Equipped with Dongfeng Cummins plateau engine + Shantui torque converter and gearbox.
- Equipped with a dual anchor system, the left and right arms can drill anchor holes independently.
- Dual motor pump system, any one motor pump system can control the arch function of the three arms.
- The arch frame can handle under-excavation and welding operations during installation, and has strong tunnel adaptability.
- Diesel-electric dual power system, electric construction, diesel-electric.



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TXGM-315智能拱锚一体台车
TXGM-315 Intelligent Arch Anchor Integrated Trolley

整机 参数表

项目	性能指标	单位	参数
整机参数	总重	t	38
	长×宽×高	mm	11150×3650×3350
	工作方式	/	电动施工, 柴动应急
	控制方式	/	无线遥控
底盘参数	发动机功率	kW	132 (高原版)
	爬坡能力	°	20
	转向角度	°	30
	接近角/离去角	°	16/19
	最大行驶速度	Km/h	15
	转弯半径外/内	m	15/8
	驾驶模式	/	双向驾驶
	驱动及转向形式	/	四轮驱动、四轮转向
臂架参数	最小离地间隙	mm	400
	臂架模式	/	两级伸缩
	臂架数量	/	3
	吊篮数量	/	3
	抓手数量	/	3
	吊篮模式	/	可扩展式
	中间臂最大举升能力	t	3
	左右臂最大举升能力	t	1.5
	俯仰角度	°	-7~55
	中间臂摆动角度	°	-10~10
左右臂摆动角度	°	-8~45	
气路	气量	m ³ /min	1
	气压	bar	8
	空压机功率	kW	7.5
水路	水泵流量	m ³ /h	8
	压力	bar	25
	水泵功率	kW	5.5
电气	装机功率	kW	155
	电压	V	380
	电缆长度	m	100
凿岩参数	凿岩机数量	/	2
	冲击功率	kW	18
	最大扭矩	Nm	740
	钻孔直径	mm	43~102
	推进梁长度	mm	5680
	钻杆长度	mm	4310
	钻孔深度	m	4
其它	电焊机数量	/	3
	破碎锤数量	/	2

整机 参数表

Item	Performance	Unit	Parameter
Machine parameters	Total weight	t	38
	L*W*H	mm	11150×3650×3350
	Working method	/	Electric construction, Firewood emergency
	Control mode	/	Wireless remote control
Chassis parameters	Engine power	kW	132 (Plateau edition)
	Gradeability	°	20
	Steering angle	°	30
	Approach/ departure angle	°	16/19
	Maximum travelling speed	Km/h	15
	Radius of turning circle(m) outside/inside	m	15/8
	Driving pattern	/	Two way driving
	Drive and steering form	/	Four-wheel drive, ws four-wheel steering
Parameters	Minimum ground clearance	mm	400
	Arm stand mode	/	Two-stage expansion
	Number arm stands	/	3
	Number of baskets	/	3
	Number of grippers	/	3
	Basket pattern	/	Scalable
	Maximum lifting capacity of intermediate arm	t	3
	Maximum lifting capacity of left and right arms	t	1.5
	Pitch angle	°	-7~55
	Intermediate arm swing angle	°	-10~10
Left and right arm swing angle	°	-8~45	
Air path	Air capacity	m ³ /min	1
	Air pressure	bar	8
	Air compressor power	kW	7.5
Water path	Pump flow	m ³ /h	8
	Pressure	bar	25
	Pump power	kW	5.5
Electric	Installed power	kW	155
	Voltage	V	380
	Cable length	m	100
Drilling parameter	Number of rock drills	/	2
	Impulse power	kW	18
	Maximum torque	Nm	740
	Drilling diameter	mm	43~102
	Length of propulsion beam	mm	5680
	Run of steel	mm	4310
	Drilling depth	m	4
Others	Number of welding machines	/	3
	Number of crushing hammer	/	2

应用范围:

TX系列混凝土喷射机组是我公司针对隧道施工机械化、智能化需求,结合市场实际需求而设计研发的一款混凝土喷浆设备。其性能稳定可靠、喷射能力大、作业效率高、喷射效果好、操控灵活方便、转场方便迅速,更加适合较大断面和需要快速转换施工地点的施工场合,具有极高的性价比。

性能特点:

- 采用大缸径、长行程的喷射砼泵,喷射方量大,出料连续均匀,可靠性高,适应性好。
- 采用知名品牌无线遥控器,性能优良,操作方便,可远距离遥控所有的喷浆动作。
- 全液压伸缩喷射臂适用于长距离、大高度湿喷场地。前置的机械臂相较汽车底盘喷射机组,具有臂架喷射范围更大,喷射盲区小的特点。
- 具备断电紧急清洗功能。在特殊原因导致外接电源无法工作时,可使用柴油发动机作为动力源,对混凝土喷射机组包括泵送系统在内的整机进行有效清洗。
- 电气系统设计合理,重要核心元器件均采用国内外知名品牌,性能稳定可靠,故障率低。
- 速凝剂智能添加系统,可根据预先设定比例,随混凝土喷射量变化自动改变添加剂量,并可通过遥控器或触摸屏实时监控和调节。
- 该机配备速凝剂抽吸装置,可以快速将施工工地零散的液态速凝剂抽吸至车载速凝剂桶中,使用方便。



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Application:

The TX series concrete spraying unit is a concrete spraying equipment designed and developed by our company in response to the mechanization and intelligent needs of tunnel construction and in combination with the actual market demand. It has stable and reliable performance, large spraying capacity, high operating efficiency, good spraying effect, flexible and convenient control, and convenient and quick transition. It is more suitable for larger cross-sections and construction occasions that require quick change construction locations, and has a very high cost performance.

Main Features:

- Adopt a large-bore, long-stroke injection concrete pump with large injection capacity, continuous and even material discharge, high reliability and good adaptability.
- It adopts a well-known brand wireless remote control with excellent performance and easy operation. It can remotely control all shotcrete actions.
- The fully hydraulic telescopic spray arm is suitable for long-distance and large-height wet spray sites. Compared with the automobile chassis shotcrete unit, the front-mounted robotic arm has the characteristics of a larger shotcrete range and a smaller shotcrete blind zone.
- Equipped with emergency cleaning function in case of power outage. When the external power supply fails to work due to special reasons, the diesel engine can be used as the power source to effectively clean the entire concrete spraying unit, including the pumping system.
- The electrical system is reasonably designed, and the important core components are all from well-known domestic and foreign brands, with stable and reliable performance and low failure rate.
- The quick-setting agent intelligent addition system can automatically change the amount of additives as the concrete spraying volume changes according to the preset ratio, and can be monitored and adjusted in real time through the remote control or touch screen.
- The machine is equipped with an accelerator suction device, which can quickly pump scattered liquid accelerator at the construction site into a vehicle-mounted accelerator barrel, which is easy to use.



混凝土喷射机组系列

Concrete Spraying Unit Series

整机参数表

项目		单位	TX3616B11	TX3616B13	TX4016B15	TX5016B17
整机	总重	kg	15500	15500	16050	17050
	长×宽×高	mm	8700x2600x3300	8100x2800x3300	8100x2800x3300	8700x2800x3300
底盘参数	发动机功率	kW	88	88	88	88
	底盘传动型式	/	液力传动	液力传动	液力传动	液力传动
	前后桥驱动方式	/	前后桥驱动	前后桥驱动	前后桥驱动	前后桥驱动
	最大爬坡度	%	44 (24°)	44 (24°)	44 (24°)	44 (24°)
	最高车速	km/h	30	30	25	25
	最小离地间隙	mm	380	380	410	380
	转向方式	/	四轮转向	前轮转向	前轮转向	前轮转向
	驾驶方向	/	单向驾驶	单向驾驶	单向驾驶	单向驾驶
	最小转弯半径	m	6	6	6	6.5
	电控系统	整机功率	kW	37+30	37+30	30+37
工作电压		V	380	380	380	380
有效遥控距离		m	100	100	100	100
电缆线长度		m	100	50	50	100
臂架参数	结构形式	/	大、小臂俯仰+小臂两级伸缩	大、小臂俯仰+小臂两级伸缩	大、小臂俯仰+小臂两级伸缩	大、小臂俯仰+小臂两级伸缩
	最大喷射高度	m	16	16	16	16
	最大喷射宽度	m	26	26	26	26
	最远喷射距离	m	13.5	13.5	13.5	13.5
	最小可作业高度	m	4	4	4	4
	最大作业深度	m	6	6	6	6
	大臂回转角度	°	270	270	270	270
泵送系统	理论泵送能力	m³/h	36	36	40	50
	输料缸缸径	mm	Φ180	Φ180	Φ180	Φ200
	输料缸行程	mm	1000	1000	1000	1000
	理论最大出口压力	MPa	8	8	8	8
	料斗容量	m³	0.3	0.3	0.3	0.4
	上料高度	mm	1550	1550	1550	1580
辅助系统	空压机排量	m³/min	根据客户需求选配		根据客户需求选配	
	空压机压力	MPa	根据客户需求选配		根据客户需求选配	
	空压机功率	kW	根据客户需求选配		根据客户需求选配	
	速凝剂泵输送能力	L/h	1000	1000	1000	1500
	速凝剂输送压力	MPa	Max. 2	Max. 2	Max. 2	Max. 2

MACHINE PARAMETER

Item		Unit	TX3616B11	TX3616B13	TX4016B15	TX5016B17
Machine parameters	Total weight	kg	15500	15500	16050	17050
	L×W×H	mm	8700x2600x3300	8100x2800x3300	8100x2800x3300	8700x2800x3300
Chassis parameters	Engine power	kW	88	88	88	88
	Chassis transmission type	/	Hydraulic transmission	Hydraulic transmission	Hydraulic transmission	Hydraulic transmission
	Front and rear axle drive mode	/	Front and rear axle drive	Front and rear axle drive	Front and rear axle drive	Front and rear axle drive
	Max. Gradeability	%	44 (24°)	44 (24°)	44 (24°)	44 (24°)
	Max. speed	km/h	30	30	25	25
	Min. ground clearance	mm	380	380	410	380
	Steering mode	/	Four wheel steering	Front wheel steering	Front wheel steering	Front wheel steering
	Driving direction	/	Unidirectional driving	Unidirectional driving	Unidirectional driving	Unidirectional driving
	Min. turning radius	m	6	6	6	6.5
	Controller	Whole machine power	kW	37+30	37+30	30+37
Working voltage		V	380	380	380	380
Effective remote control distance		m	100	100	100	100
Cable length		m	50	50	50	100
Arm parameters	Structural style	/	Big and small arm pitch+Two level telescopic forearm	Big and small arm pitch+Two level telescopic forearm	Big and small arm pitch+Two level telescopic forearm	Big and small arm pitch+Two level telescopic forearm
	Max. spray height	m	16	16	16	16
	Max. spray width	m	26	26	26	26
	Max. spraying distance	m	13.5	13.5	13.5	13.5
	Min. working height	m	4	4	4	4
	Max. working depth	m	6	6	6	6
	Big arm rotation angle	°	270	270	270	270
Pumping system	Theoretical pumping capacity	m³/h	36	36	40	50
	Conveying cylinder bore diameter	mm	Φ180	Φ180	Φ180	Φ200
	Conveying cylinder stroke	mm	1000	1000	1000	1000
	Theoretical max. outlet pressure	MPa	8	8	8	8
	Hopper capacity	m³	0.3	0.3	0.3	0.4
	Loading height	mm	1550	1550	1550	1580
Auxiliary system	Air compressor displacement	m³/min	Optional according to customer needs		Optional according to customer needs	
	Air compressor pressure	MPa	Optional according to customer needs		Optional according to customer needs	
	Air compressor power	kW	Optional according to customer needs		Optional according to customer needs	
	Accelerating agent delivery capacity	L/h	1000	1000	1000	1500
	Accelerating agent delivery pressure	MPa	Max. 2	Max. 2	Max. 2	Max. 2

混凝土喷射机组系列 Concrete Spraying Unit Series



TX3616B11混凝土喷射机组
TX3616B11 concrete spraying unit



TX3616B11-G混凝土喷射机组
TX3616B11-G concrete spraying unit



TX3616B13混凝土喷射机组
TX3616B13 concrete spraying unit



TX3616B10-K混凝土喷射机组
TX3616B10-K concrete spraying unit

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应用范围:

车载二衬泵是专门针对隧道施工二次衬砌环节的特殊工况设计开发的混凝土输送泵。

性能特点:

- 转场机动灵活,可兼顾多个掌子面作业。工程底盘可靠性高,带高低速切换,可兼顾隧道施工场地的高通过性和高机动性要求。
- 整机外形尺寸小,更加适合隧道狭小空间作业。整机高度低矮,结构尺寸紧凑,不影响隧道开挖的其它环节施工,节省施工周期。
- 泵送作业电机驱动,更经济更环保。隧道内空气流动性差,泵送系统由电机驱动,节省成本又保证了作业环境。
- 总体布置更优化,方便施工作业和维护。左右侧护栏可翻转,两侧留有放置输送管空间,可随车携带输送管,让施工作业省时省力。
- 电控系统操作简单易学,知名品牌控制器稳定可靠。控制器故障率低,大品牌,性能稳定。无线遥控更方便操作,电机带有启动保护。
- 液压系统先进可靠,系统简单可靠。S阀二衬泵采用双泵双回路系统,泵送和换向独立工作。川崎主泵,故障率低使用寿命长,维护保养方便。电比例调节方量大小,简单快捷。
- 泵送机构配套件高质量标准,使用寿命长,维护方便。泵送系统从主油缸、输送缸到水箱结构件和密封配套件等全部达到三一标准,泵送系统高效、安全、可靠、经济。



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汽车(工程)底盘混凝土车载泵 Automotive (Engineering) Chassis Truck-mounted Concrete Pump

Application:

The vehicle mounted secondary lining pump is a concrete conveying pump designed and developed specifically for the special working conditions of the secondary lining process in tunnel construction.

Main Features:

- The transition is flexible and can accommodate multiple excavation face operations. The engineering chassis has high reliability and is equipped with high and low speed switching, which can meet the high passability and high mobility requirements of tunnel construction sites.
- The overall size of the machine is small, making it more suitable for working in narrow tunnel spaces. The whole machine has a low height and compact structural dimensions, which do not affect the construction of other stages of tunnel excavation and save construction time.
- Pump operation motor drive, more economical and environmentally friendly. The air flow inside the tunnel is poor, and the pumping system is driven by an electric motor, which saves costs and ensures the working environment.
- The overall layout is more optimized, facilitating construction operations and maintenance. The left and right guard-rails can be flipped, and there is space on both sides for placing conveyor pipes, which can be carried with the vehicle, making construction operations time-saving and labor-saving.
- The operation of the electronic control system is simple and easy to learn, and the well-known brand controller is stable and reliable. Low controller failure rate, big brand, stable performance. Wireless remote control is more convenient to operate, and the motor is equipped with start protection.
- The hydraulic system is advanced and reliable, and the system is simple and reliable. The S-valve secondary lining pump adopts a dual pump dual circuit system, and the pumping and reversing work independently. Kawasaki main pump has a low failure rate, long service life, and convenient maintenance. Adjusting the power ratio is simple and fast.
- The supporting parts of the pumping mechanism have high quality standards, long service life, and convenient maintenance. The pumping system, from the main oil cylinder, conveying cylinder to the structural components and sealing accessories of the water tank, all meet the Sany standard. The pumping system is efficient, safe, reliable, and economical.





整机 参数表

项目	性能指标	单位	TX60-6E	TX75-5(S阀)	TX60-6(S阀)
整机参数	总重	kg	7850	7850	7830
	外形尺寸 (行驶/运输)	mm	7000×2100×2900	7200×2100×2400	7200×2100×2400
	爬坡能力	%	36	32	32
底盘系统	轴距	mm	3600	3400	3400
	发动机功率	kW	70	66.7	66.7
	最高时速	km/h	60	60(高速档)/30(低速档)	60(高速档)/30(低速档)
	最小离地间隙	mm	380	350	350
	电机功率	kW	75	75	75
	泵送动力源	/	电机	电机	电机
	混凝土最大输送量	m ³ /h	60	75	60
液压系统	混凝土输送压力	MPa	32	32	32
	混凝土出口压力	MPa	12.5	8	12.5
	料斗容积	m ³	0.4	0.4	0.4
泵送系统	料斗上料高度	mm	1450	1350	1350
	主泵额定压力	MPa	32	32	32
	摆缸工作压力	MPa	16	16	16
	搅拌工作压力	MPa	11	11	11
	泵送单元切换方式	/	/	/	/
	输送缸径×最大行程	mm	200×1450	230×1450	200×1450
	允许最大骨料粒径	mm	40	40	40
	输送管内径	mm	125	125	125
	输送距离(垂直/水平)	m	100/300	80/150	100/300
	混凝土塌落度范围	mm	100~230	100~230	100~230
	其它	控制方式	/	无线+本地	无线+本地



MACHINE PARAMETER

Item	Performance	Unit	TX60-6E	TX75-5(s valve)	TX60-6(s valve)
Machine parameters	Total weight	kg	7850	7850	7830
	External dimensions (driving/transportation)	mm	7000×2100×2900	7200×2100×2400	7200×2100×2400
	Gradeability	%	36	32	32
Chassis parameters	Wheelbase	mm	3600	3400	3400
	Engine power	kW	70	66.7	66.7
	Max. driving speed	km/h	60	60 (high gear)/30 (low gear)	60 (high gear)/30 (low gear)
	Min. ground clearance	mm	380	350	350
	Electric machine power	kW	75	75	75
	Pumping power source	/	electric	electric	electric
	Hydraulic system	Max. concrete conveying capacity	m ³ /h	60	75
Concrete conveying pressure		MPa	32	32	32
Concrete outlet pressure		MPa	12.5	8	12.5
Pumping system	Hopper capacity	m ³	0.4	0.4	0.4
	Hopper loading height	mm	1450	1350	1350
	Rated pressure of main pump	MPa	32	32	32
	Working pressure of swing cylinder	MPa	16	16	16
	Mixing working pressure	MPa	11	11	11
	Pumping unit switching method	/	/	/	/
	Conveying cylinder diameter × max. stroke	mm	/	/	/
	Max. aggregate particle size	mm	/	/	/
	Delivery pipe inner diameter	mm	/	/	/
	Conveying distance (vertical/horizontal)	m	/	/	/
	Concrete slump range	mm	/	/	/
Other	Control mode	/	Wireless+Local	Wireless+Local	Wireless+Local

应用范围:

TXQS-3A隧道多功能辅助车是泰鑫公司自主研发的一款新型多功能隧道施工平台,结构合理、操作简单,集施工道路快速清扫、二衬全方位养护、工作面迅速抑尘、隧道无障碍高空作业等功能为一体,完美诠释一机多用的设计理念,为客户创造更多价值。

该产品以940装载机底盘作为行走载体,上方配备高空作业平台、二衬养护喷淋系统,前方配备清扫装置、后方则以水箱作为整车配重,并在其上方搭载雾炮及电控系统,雾炮可依程序设定自动调整喷雾角度。

性能特点:

- 独特的二衬养护折叠喷管设计,通过折叠喷管和旋转肩座,既能极大增加混凝土养护的作业面积,提高作业效率;又能适配不同断面的隧道,提高设备的通用性。
- 清扫装置边刷马达采用自适应的弹簧机构,结构简单,增加了浮动功能,可以有效延长刷毛寿命。针对施工道路多碎石、渣土等垃圾,采用独特设计,能快速、深度清洁路面。
- 整机配备大功率雾炮,抑尘范围更广。
- 雾炮与二衬养护喷淋系统均各单独配备一套电机水泵驱动,相互独立,互不影响,避免单一电机或者水泵损坏,其他功能也全部瘫痪。并且两套电机水泵分别根据需水量大小选用,避免单套应用时由于水量要求不同,需要反复调整的问题。
- 雾炮与二衬养护电控系统采用遥控本地双操作的模式,电控系统程序稳定,设计合理,智能化程度高,操作方便快捷,且电气系统集成于一个箱体,既美观,又方便维护。
- 高空作业平台采用特殊支撑,结构稳定牢靠,且托举高度可达7.2M,适用性更强。高空作业平台采用两组电控开关控制,分别置于驾驶室内和驾驶室外,操作方便,便于观察。
- 整机布局合理,结构紧凑,稳定性好。可适应各种施工环境。

Application:

The TXQS-3A tunnel multifunctional auxiliary vehicle is a new type of multifunctional tunnel construction platform independently developed by Taixin Company. It has a reasonable structure and simple operation, and integrates functions such as rapid cleaning of construction roads, comprehensive maintenance of secondary lining, rapid dust suppression at the working face, and accessible high-altitude operation in the tunnel. It perfectly interprets the design concept of one machine for multiple purposes and creates more value for customers.

The product uses the 940 loader chassis as the walking carrier, and is equipped with an aerial work platform and a secondary lining maintenance spray system above. The front is equipped with a cleaning device, and the rear is equipped with a water tank as the vehicle counterweight. The top is equipped with a fog monitor and an electric control system. The fog monitor can automatically adjust the spray angle according to the program settings.

Main Features:

- The unique design of the secondary lining maintenance folding nozzle can greatly increase the working area of concrete curing and improve work efficiency through the folding nozzle and rotating shoulder seat; It can also adapt to tunnels with different cross-sections, improving the versatility of the equipment.
- The side brush motor of the cleaning device adopts an adaptive spring mechanism, with a simple structure and added floating function, which can effectively extend the lifespan of the brush bristles. A unique design is adopted to quickly and deeply clean the road surface in response to the accumulation of debris such as crushed stones and debris on construction roads.
- The whole machine is equipped with a high-power fog cannon, which has a wider range of dust suppression.
- The fog cannon and the secondary lining maintenance spray system are each equipped with a separate set of motor and water pump drives, which can work independently, to avoid damage to a single motor or water pump, and all other functions are also paralyzed. And the two sets of motor water pumps are selected according to the size of water demand, to avoid the problem of repeated adjustment due to different water requirements when using a single set.
- The fog cannon and secondary lining maintenance electrical control system adopt a remote control and local dual operation mode. The electrical control system program is stable, designed reasonably, has a high degree of intelligence, and is easy and fast to operate. The electrical system is integrated into one box, which is both beautiful and easy to maintain.
- The high-altitude operation platform adopts special support, with a stable and reliable structure, and a lifting height of up to 7.2M, making it more applicable. The high-altitude operation platform adopts two sets of electric control switches, which are placed inside the driver's cab and outside the driver's cab, making it easy to operate and observe.
- The overall layout is reasonable with compact structure and good stability. It can adapt to various construction environments.



隧道多功能辅助车

TXQS-3A Tunnel Multifunctional Auxiliary Vehicle

整机 参数表

项目	性能指标	单位	参数
整机参数	整机重量	t	7
	长×宽×高	mm	6800×2600×3200
	发动机功率	kW	76
	转向形式	/	液压转向
	最大转向角	°	35
清扫机构	垃圾箱容积	m ³	0.8
	降尘水箱容积	m ³	1.2
	清扫速度	km/h	3-5
	最大清扫宽度	mm	2600
	滚刷直径	mm	Φ660
	边刷尺寸直径	mm	450
	雾化喷头数量	个	12
	降尘水泵流量	L/min	11.3
高空作业平台	举升高度	m	3.2-7.2
	额定载荷	kg	200
	平台尺寸	mm	2100 x 700
养护机构	流量	L/min	33
	喷头数量	个	18
	水箱容积	m ³	1.2
雾炮机构	水箱容积	m ³	与养护机构共用
	雾炮直径	mm	Φ300
	喷雾耗水量	L/min	26
	最大喷射距离	m	30
	柴油发电机功率	kW	8

MACHINE PARAMETER

Item	Performance	Unit	Parameter
Machine parameters	Total weight	t	7
	L×W×H	mm	6800×2600×3200
	Engine power	kW	76
	Steering type	/	Hydraulic steering
	Max. steering angle	°	35
Cleaning mechanism	Garbage bin capacity	m ³	0.8
	Volume of dust reduction water tank	m ³	1.2
	Sweeping speed	km/h	3-5
	Max. cleaning width	mm	2600
	Roll brush diameter	mm	Φ660
	Edge brush size diameter	mm	450
	Number of atomizing nozzles	Piece	12
	Dust reduction water pump flow rate	L/min	11.3
High altitude work platform	Lifting height	m	3.2-7.2
	Rated load	kg	200
	Platform size	mm	2100 x 700
Maintenance institutions	Flow	L/min	33
	Number of nozzles	Piece	18
	Water tank capacity	m ³	1.2
Fog cannon mechanism	Water tank capacity	m ³	Shared with maintenance institutions
	Fog cannon diameter	mm	Φ300
	Water consumption of spray	L/min	26
	Max. spraying distance	m	30
	Diesel generator power	kW	8



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湿喷机系列

■ HBT系列泵送式湿喷机,是我公司结合混凝土泵送式输送和稀薄流输送的优点,研制开发的液压泵送式湿喷机系列产品之一。该机采用液压传动,以泵送方式将砼输送至一定距离或至喷头处,再用压缩空气将砼喷射到支护面上。同时,在喷头处加入适量速凝剂与砼混合,速凝剂的添加量通过计量泵调节。

■ HS-700型湿喷机,是小方量混凝土湿喷作业的常用产品,采用转子活塞凸轮喂料机构原理。



技术参数	单位	HBT-12D	HBT-8D	HS-700
最大理论砂浆输送量	m ³ /h	5-12	3-8	7
砂浆输送压力	MPa	8	8	/
最大理论垂直输送距离	m	30	20	20
最大理论水平输送距离	m	60	40	40
分配阀形式	/	S管阀	S管阀	/
骨料最大粒径	mm	15	15	15
砼塌落度	cm	12-23	12-23	/
回弹率	%	≤15	≤15	平均≤20
作业粉尘浓度	mg/m ³	≤10	≤10	<10
砼输送缸缸径/行程	mm	Φ140/580	Φ130/580	/
上料高度	mm	1000	900	/
外形尺寸(长×宽×高)	mm	3700×1500×1600	2500×1300×1400	2070×1000×1200
质量	kg	2400	1800	1400
液压系统压力	MPa	18	18	/
电机功率	kW	22	15	/
料斗容积	m ³	0.3	0.3	/
组集料细度模数	/	/	/	≥2.5
液体速凝剂掺量	%	/	/	0-7
输料胶管内径	mm	57	57	57
混凝土坍落度	cm	/	/	10-20
系统风压	MPa	≥0.5	≥0.5	≥0.5
工作风压	MPa	0.4-0.6	0.4-0.6	0.4-0.6
耗风量	m ³ /min	≥10	≥10	≥12
主电机功率	kW	22	22	7.5

Wet Shotcrete Machine Series

■ The HBT series pump type wet spraying machine is one of the hydraulic pumping wet spraying machine series products developed by our company, which combines the advantages of concrete pumping conveying and thin flow conveying. The machine adopts hydraulic transmission to pump concrete to a certain distance or to the nozzle, and then uses compressed air to spray the concrete onto the support surface. At the same time, the appropriate amount of accelerator is added to the nozzle and mix it with the concrete. The amount of accelerator added is adjusted by a metering pump.

■ The HS-700 wet spraying machine is a commonly used product for small volume concrete wet spraying operations. It adopts the principle of a rotor piston cam feeding mechanism.



Technical parameter	Unit	HBT-12D	HBT-8D	HS-700
Max. theoretical mortar conveying capacity	m ³ /h	5-12	3-8	7
Mortar conveying pressure	MPa	8	8	/
Max. theoretical vertical conveying distance	m	30	20	20
Max. theoretical horizontal conveying distance	m	60	40	40
Distribution valve form	/	S-pipe valve	S-pipe valve	/
Max. aggregate size	mm	15	15	15
Concrete slump	cm	12-23	12-23	/
Rebound rate	%	≤15	≤15	Average ≤ 20
Operating dust concentration	mg/m ³	≤10	≤10	<10
Concrete conveying cylinder diameter/stroke	mm	Φ140/580	Φ130/580	/
Loading height	mm	1000	900	/
External dimensions (LxWxH)	mm	3700×1500×1600	2500×1300×1400	2070×1000×1200
Weight	kg	2400	1800	1400
Hydraulic system pressure	MPa	18	18	/
Motor power	kW	22	15	/
Hopper capacity	m ³	0.3	0.3	/
Fineness modulus of aggregate	/	/	/	≥2.5
Liquid accelerator dosage	%	/	/	0-7
Inner diameter of feeding hose	mm	57	57	57
Concrete slump	cm	/	/	10-20
System wind pressure	MPa	≥0.5	≥0.5	≥0.5
Working wind pressure	MPa	0.4-0.6	0.4-0.6	0.4-0.6
Air consumption	m ³ /min	≥10	≥10	≥12
Main motor power	kW	22	22	7.5

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SSP喷浆机系列

潮喷机系列分为SGP-6/PZ-7等型号。适用于隧道、涵洞、地铁及地下工程等；防爆型适用于煤矿、化工矿山等高可燃气体环境的场所。

申鑫智能喷射设备，始终以信誉和质量占领市场，该机器有以下主要特点：

性能特点：

- 进料口加大，易于砂料的连续，可定量，及时控制风量的大小，保证砂料及外加剂的连续性。
- 新型直通式转子，配备高弹性料腔，组合式软体出料弯头，内衬塑胶弯管，消除了砂料的粘附和堵塞，提高施工效率。
- 易损件均采用结构独特材料制造，采用弹性自动夹紧装置，提高机器密封性，减少易损件磨损。



技术参数	单位	SGP-6	PZ-7
生产能力	m ³ /h	6	7
最大输送距离	m	30垂直, 100水平	30垂直, 100水平
适用水灰比	/	≤0.4	≤0.4
速凝剂添加量	%	2-10	2-10
最大骨料径	mm	20	20
喷砂管直径	mm	Ø51	Ø57
工作风压	MPa	0.4-0.6	0.4-0.6
耗风量	m ³ /min	8-10	10-12
上料高度	mm	1100	1300
主电机+振动电机	kW	5.5+0.15	7.5+0.25
除尘电机	kW	/	/
整机重量	kg	750	850
外形尺寸	mm	1400×800×1100	1500×800×1300

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Wet and Dry Shotcrete Machine SSP Series

The dry shotcrete machine series is divided into SGP-6/PZ-7 and other models. Suitable for tunnels, culverts, subways, and underground engineering, etc. Explosion proof type is suitable for places with high combustible gas environments such as coal mines and chemical mines.

Shenxin intelligent spray equipment always occupies the market with reputation and quality. This machine has the following main characteristics:

Main Features:

- Enlarged feeding port facilitates the continuity of concrete materials, allows for quantitative and timely control of air flow, ensuring the continuity of concrete materials and admixtures.
- A new type of straight through rotor, equipped with a polymer elastic material chamber, a combination of soft discharge elbows, lined with plastic elbows, eliminates the adhesion and blockage of concrete materials, and improves construction efficiency.
- The vulnerable parts are all made of materials with unique structures and adopt elastic automatic clamping devices to improve machine sealing and reduce wear of vulnerable parts.



Technical parameter	Unit	SGP-6	PZ-7
Production capacity	m ³ /h	6	7
Max. conveying distance	m	30 vertical, 100 horizontal	30 vertical, 100 horizontal
Applicable water cement ratio	/	≤0.4	≤0.4
Addition amount of accelerator	%	2-10	2-10
Max. aggregate size	mm	20	20
Spraying pipe diameter	mm	Ø51	Ø57
Working wind pressure	MPa	0.4-0.6	0.4-0.6
Air consumption	m ³ /min	8-10	10-12
Loading height	mm	1100	1300
Main motor+vibration motor	kW	5.5+0.15	7.5+0.25
Dust removal motor	kW	/	/
Weight	kg	750	850
Dimensions	mm	1400×800×1100	1500×800×1300

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注浆机系列

■ 拱顶带模系列注浆机是公司研发的,采用螺杆增压技术,具有压力高、砂灰比高、高稠度、大流量的特点。广泛应用于公路、铁路、隧道、城市地铁、水电站、地下洞室等锚杆注浆、回填注浆、固结注浆等压力注浆工程,可用于大坝、边坡、软岩加固时土层帷幕注浆等压力注浆工程,还可用于城市建筑工程内外墙及罩面层的喷护工程,是施工现场理想的现代化施工设备。

■ 活塞式灰浆泵主要用于水库、河道的土坝灌浆,对坝体或者坝基的裂缝、松散层和溶洞进行压力灌浆,以此来达到固结防渗的目的,也可用于其它水利建筑工程中输送灰浆、水泥浆进行灌浆或喷涂装修等,其灌注浆液为含颗粒 $\leq 3\text{mm}$ 的粘土泥浆、水泥浆、粘土砂浆、水泥浆及其它混合浆液等,可满足大多数用户的使用要求。



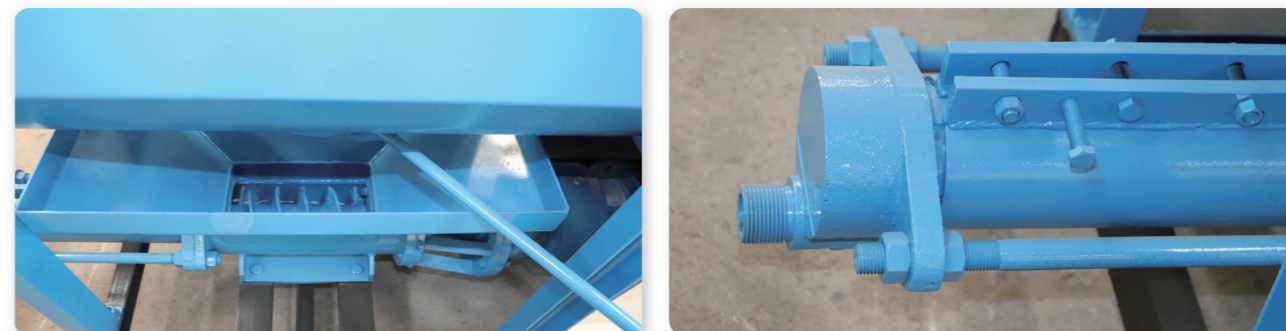
项目	单位	TLS-5拱顶带模注浆一体机	SJB-20B	UBH	SUBH
出浆量	L/h	5000	2000	3000	4500
输送距离	m	/	垂直20/水平60	垂直40/水平100	垂直60/水平180
主电机功率	kW	7.5	4	4	5.5
搅拌电机功率	kW	3	4	/	/
灰砂粒径	mm	/	≤ 2	≤ 3	≤ 3
水灰比	/	/	≥ 0.3	/	/
灌(注)浆压力	MPa	/	2	/	/
搅拌容积	L	150	160	/	/
上料高度	mm	1130	1300	/	/
外形尺寸(长×宽×高)	mm	2800×800×1300	2060×600×1300	1030×470×890	1050×480×920
整机重量	kg	640	450	250	350
工作风压	MPa	0-3	0.3-0.6	/	/
耗风量	m ³ /min	/	≥ 3	/	/
备注	/	/	带搅拌	/	/
最高工作压力	MPa	/	/	1.5	3
活塞直径	mm	/	/	$\Phi 85$	$\Phi 63$
活塞往复次	n/min	/	/	240	240
输浆口胶管内径	mm	/	/	$\Phi 38$	$\Phi 38$
进浆口胶管内径	mm	/	/	$\Phi 64$	$\Phi 51$

注: ① 图片仅供参考外观设计变更恕不另行通知
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Grouting Machine Series

■ Mortar pump is a new generation grouting equipment developed by the company, which adopts screw boosting technology and has the characteristics of high pressure, high sand cement ratio, high viscosity, and large flow rate. Widely used in anchor grouting, backfill grouting, consolidation grouting and other pressure grouting projects such as highways, railways, tunnels, urban subways, hydropower stations, and underground chambers, it can be used in pressure grouting projects such as soil curtain grouting for dam, slope, and soft rock reinforcement. It can also be used in spray protection projects for inner and outer walls and cover layers of urban construction projects, making it an ideal modern construction equipment for construction sites.

■ The piston type mortar pump is mainly used for grouting soil dams in reservoirs and rivers, and for pressure grouting of cracks, loose layers, and karst caves in the dam body or foundation to achieve the purpose of consolidation and anti-seepage. It can also be used for transporting mortar and cement slurry for grouting or spraying decoration in other water conservancy construction projects. The grouting slurry is clay slurry, cement slurry, clay mortar, cement slurry, and other mixed slurry with particles $\leq 3\text{mm}$, which can meet the requirements of most users.



Item	Unit	TLS-5 Arch Top Mold Grouting Machine	SJB-20B	UBH	SUBH
Pulp output	L/h	5000	2000	3000	4500
Conveying distance	m	/	Vertical 20/Horizontal 60	Vertical 40/Horizontal 100	Vertical 60/Horizontal 180
Main motor power	kW	7.5	4	4	5.5
Mixing motor power	kW	3	4	/	/
Gray sand particle size	mm	/	≤ 2	≤ 3	≤ 3
Water cement ratio	/	/	≥ 0.3	/	/
Grouting pressure	MPa	/	2	/	/
Mixing volume	L	150	160	/	/
Loading height	mm	1130	1300	/	/
External dimensions (LxWxH)	mm	2800x800x1300	2060×600×1300	1030×470×890	1050×480×920
Weight	kg	640	450	250	350
Working wind pressure	MPa	0-3	0.3-0.6	/	/
Air consumption	m ³ /min	/	≥ 3	/	/
Remarks	/	/	With mixing	/	/
Max. working pressure	MPa	/	/	1.5	3
Piston diameter	mm	/	/	$\Phi 85$	$\Phi 63$
Piston reciprocating times	n/min	/	/	240	240
Inner diameter of the slurry delivery hose	mm	/	/	$\Phi 38$	$\Phi 38$
Inner diameter of the inlet hose	mm	/	/	$\Phi 64$	$\Phi 51$

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▶ 注浆机系列

■ 液压注浆泵是利用压力使易凝固物质往岩石或土壤的空腔中进行注浆的专用设备。起到减少渗漏,固结岩层之目的,该设备主要适用于隧道开凿与维修以及矿井、水坝、桥梁及高层建筑的基础处理;防爆型适用于煤矿、化工矿山等高可燃气体环境的场所。

■ JW系列灰浆搅拌机是我公司生产的与活塞式灰浆泵、JYB型灰浆泵、双缸、三缸注浆机配套使用的多功能搅拌机械。它适用于建筑冶金,铁路桥梁、预应力构件等工程和维修。该机体积小,外形美观,易于安装和搬运,操作使用方便。



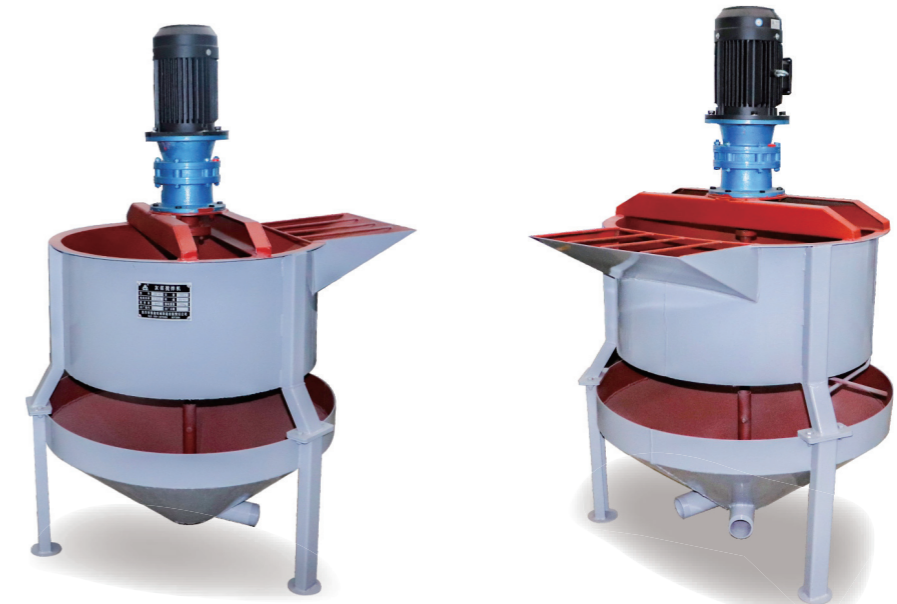
技术参数	单位	FBY-50/70	ZBY-140/7-11G 防爆型液压注浆泵	JW180	JW750
排浆流量	L/min	75	140	/	/
输送距离	m	垂直70 水平200	垂直70 水平200	/	/
排浆压力	MPa	0.5-7	0.5-7	/	/
排浆缸规格内径×行程	mm	110×130	110×140	/	/
液压系统工作压力	MPa	7	12	/	/
液压系统工作流量	L/min	50	73	/	/
电机功率	kW	11	11	3	5.5
液压油箱容积	m ³	0.07	0.07	/	/
外形尺寸长×宽×高	mm	1540×850×1050	2118×1013×1158	/	/
机重	kg	450	680	200	600
容量	L	/	/	180	750
搅拌量	m ³ /h	/	/	6	18
转速	r/min	/	/	65	42
装料高度	mm	/	/	1000	1000
外形尺寸(直径×高度)					

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▶ Grouting Machine Series

■ Hydraulic grouting pump is a specialized equipment that uses pressure to inject easily solidified substances into the cavities of rocks or soil. With the purpose of reducing leakage and consolidating rock layers, this equipment is mainly suitable for tunnel excavation and maintenance, as well as foundation treatment of mines, dams, bridges, and high-rise buildings; Explosion proof type is suitable for places with high combustible gas environments such as coal mines and chemical mines.

■ The JW series mortar mixer is a multifunctional mixing machine produced by our company, which is used in conjunction with piston type mortar pumps, JYB type mortar pumps, double cylinder, and three cylinder grouting machines. It is suitable for construction metallurgy, railway bridges, prestressed components and other engineering and maintenance. This machine has a small volume, beautiful appearance, easy installation and transportation, and convenient operation and use.



Technical parameter	Unit	FBY-50/70	ZBY-140/7-11G Explosion proof hydraulic grouting pump	JW180	JW750
Discharge flow rate	L/min	75	140	/	/
Conveying distance	m	Vertical 70 Horizontal 200	Vertical 70 Horizontal 200	/	/
Discharge pressure	MPa	0.5-7	0.5-7	/	/
Discharge cylinder specification inner diameter x stroke	mm	110×130	110×140	/	/
Hydraulic system working pressure	MPa	7	12	/	/
Hydraulic system working flow rate	L/min	50	73	/	/
Motor power	kW	11	11	3	5.5
Hydraulic oil tank capacity	m ³	0.07	0.07	/	/
Dimensions (LxWxH)	mm	1540×850×1050	2118×1013×1158	/	/
Machine weight	kg	450	680	200	600
Capacity	L	/	/	180	750
Mixing volume	m ³ /h	/	/	6	18
Rotate speed	r/min	/	/	65	42
Feeding height	mm	/	/	1000	1000
Dimensions(diameter x height)	mm	/	/	Φ900×1300	Φ1500×1300

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自动网片生产线

产品介绍:

该设备采用电力电子同步控制技术,控制系统采用PLC可编程控制器,操作界面采用触摸屏和按钮控制,所有焊接参数、生产数据设定方便、快捷。人性化的操作界面,操作更加智能化、人性化。

该机主要优点:

- 自动数控支护网片焊机主机为框架结构,使主体结构更为牢固、紧凑,性能稳定。
- 此设备采用气动加压的焊接方式,焊接压力均匀,焊点牢固、稳定。
- 焊接变压器采用新型高效焊网专用水冷变压器,扩大了焊接丝径范围。
- 焊接电极采用优质铬锆铜材料制成,专业设计上下电极块,磨损率低、降低生产成本。
- 变压器电极采用循环水冷方式,延长使用寿命。
- 焊接采用一次压紧分控焊接的方法,即在焊接同一排纬丝时,将焊接变压器分开工作,以减小对电力变压器的容量要求并减小电流冲击。使焊接更牢靠,更稳定、更快捷、更加智能化。
- 经丝入料采用盘丝入料方式,配有径丝专用校直机构,可为设备连续送丝。
- 纬丝入料采用步进电机驱动盘式装置自动落料,使纬丝放置更加准确。拉网机构采用伺服电机驱动拉网装置,使网格尺寸更加精密、标准;连续往复拉网,并配有自动剪网机,可根据需要设定所需网片长度自动剪断、自动落网。



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Automatic Mesh Production Line

Product Introduction:

The equipment adopts power electronic synchronous control technology, and the control system adopts PLC programmable controller. The operating interface adopts touch screen and button control, and all welding parameters and production data settings are convenient and fast. A user-friendly operating interface, making operations more intelligent and user-friendly.

Main Features:

- The main frame structure of the automatic CNC support mesh welding machine makes the main structure more sturdy, compact, and stable in performance.
- This equipment adopts a pneumatic pressure welding method, the welding pressure is uniform, and the solder joints are firm and stable.
- The welding transformer adopts a new type of high-efficiency water-cooled transformer for welding mesh, which expands the range of welding wire diameter.
- The welding electrode is made of high-quality chromium zirconium copper material, and the upper and lower electrode blocks are professionally designed, with low wear rate and reduced production costs.
- The transformer electrodes adopt a circulating water cooling method to extend their service life.
- The welding adopts a one-time compression and control welding method, that is, when welding the same row of weft wires, the welding transformer is operated separately to reduce the capacity requirements for the power transformer and reduce current impact. Make welding more reliable, stable, fast, and intelligent.
- The warp feeding adopts a disc wire feeding method, equipped with a special diameter wire straightening mechanism, which can continuously feed wire to the equipment.
- The weft feeding adopts a stepper motor driven disc device for automatic feeding, making the weft placement more accurate. The mesh pulling mechanism adopts a servo motor to drive the mesh pulling device, making the mesh size more precise and standardized; Continuous reciprocating pulling net, equipped with an automatic cutting machine, can automatically cut and fall the net according to the required length of the mesh according to the needs.



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整机 参数表

项目	单位	TXH-1500
额定电压	V / Hz	3相 / 380 / 50
经丝间距	mm	≥200
焊接丝径	mm	4.0-8.0
焊点数量	/	8
焊接速度	排/分钟	40-70
占地面积 (长×宽)	mm	22000×4000
焊接网宽	mm	≤1500
纬丝间距	mm	≥50
额定容量	kVA	125
经丝供料	/	盘丝
纬丝供料	/	调直切断丝
径丝间距调节方式	/	径丝间距可调整相关零部件, 纬丝间距触摸屏输入
整机控制方式	/	PLC
重量	kg	4500
动力源配置	/	电控柜位置根据客户定制, 需将上线 75×3+8 铜导线接至控制台即可



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MACHINE PARAMETER

Item	Unit	TXH-1500
Rated voltage	V / Hz	3-phase/380/50
Warp spacing	mm	≥200
Welding wire diameter	mm	4.0-8.0
Number of solder joints	/	8
Welding speed	Rows per minute	40-70
Land area (length x width)	mm	22000×4000
Welding mesh width	mm	≤1500
Weft spacing	mm	≥50
Rated capacity	kVA	125
Warp feeding	/	Coiling thread
Weft feeding	/	Straighten and cut the thread
Distance between warp Adjustment method	/	Adjustable warp spacing related components, weft and thread spacing touch screen input
Whole machine control mode	/	PLC
Weight	kg	4500
Power source configuration	/	The position of the electrical control cabinet is customized according to the customer, you need to connect the online 75 × 3+8 copper wire to the control console



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智能小导管生产线

产品介绍:

该设备可实现自动上料,自动夹紧,自动输送,自动切割,自动缩尖功能,加工直径范围42mm-108mm,等离子切割。主要应用于隧道管棚和超前小导管的制作。

该机主要优点:

- 气动上料机构,安全高效。
- PLC控制夹紧切割,长度2.5m-12m任意调节,精确度±0.1mm。
- 中高频加热装置10KHz-45KHz,功率50-90KW,根据加工管厚度订制。
- 缩尖机产品成熟稳定,夹持装置气动(高原版为液压夹持)。
- 根据用户需求调整切割头数量,单组5,双组4。
- 全线流水作业,节省人工。



项目	单位	TXG-42	TXG-108
加工直径范围	mm	Φ42-50	Φ60-108
加工长度范围	m	定制 (2.5-12)	定制 (2.5-12)
设备功率	kW	75	110
上料方式	/	自动	自动
开孔方式	/	等离子切割 LK-63	等离子切割 LK-120
缩管厚度	mm	0.7-3.5	0.7-5.5
成型时间	s	7-30	7-50
预设缩模角度	度	24	40
占地面积 (长×宽)	mm	17000*4000	17000*4000

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Intelligent Small Conduit Production Line

Product Introduction:

This equipment can achieve automatic feeding, automatic clamping, automatic conveying, automatic cutting, automatic taper function, processing steel tube diameter range of 42mm-108mm, plasma cutting. Mainly used for the production of tunnel pipe sheds and advanced small conduits.

The main advantages of this machine:

- Pneumatic feeding mechanism, safe and efficient.
- PLC controlled clamping and cutting, adjustable length of 2.5m-12m, with an accuracy of ± 0.1mm.
- Medium and high frequency heating device 10KHz-45KHz, power 50-90KW, customized according to the thickness of the processed tube.
- The tapering machine product is mature and stable, and the clamping device is pneumatic (the plateau version is hydraulic clamping).
- Adjust the number of cutting heads according to user needs, single group 5pcs, double group 4pcs.
- Full line assembly line, saving labor.



Item	Unit	TXG-42	TXG-108
Processing diameter range	mm	Φ42-50	Φ60-108
Processing length range	m	Customization (2.5-12)	Customization (2.5-12)
Equipment power	kW	75	110
Feeding method	/	Automatic	Automatic
Hole cutting method	/	Plasma cutting LK-63	Plasma cutting LK-120
Taper tube thickness	mm	0.7-3.5	0.7-5.5
Forming time	s	7-30	7-50
Preset taper angle	Degree	24	40
Land area (length x width)	mm	17000*4000	17000*4000

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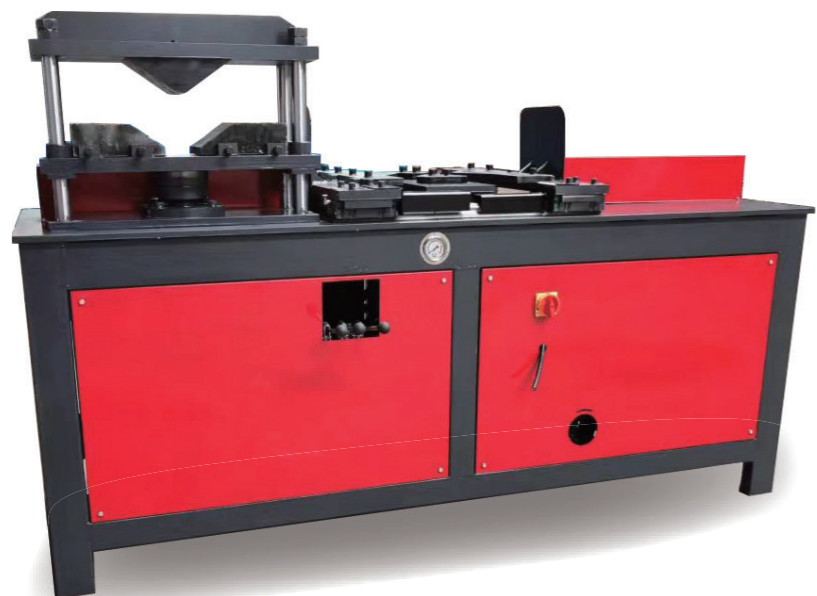
八字筋自动生产线

产品介绍:

该设备集合了原料钢筋切割、方型、焊接、八字筋成型及焊接功能,占地面积小,自动化程度高,实现了从原料到成品一体成型,不需人工干预。主要应用于隧道格栅拱架的制作。

该机主要优点:

- 切割、方型、八字筋成型、焊接一体化功能,代替了过去单台设备之间输送需要人工的特点,人工成本可降低60%。
- 成型机构采取液动力,性能稳定,高效。
- 独创电阻焊自动焊接,减少人工投入。
- 冷却水循环及风冷循环,有效避免系统过热。
- PLC结合触摸屏操作界面,人机界面友好,操作方便。



项目	单位	TXB-16
钢筋直径	mm	Φ10-16
最大产能	个 / h	200
精度	mm	±1
设备总功率	kW	465
平均耗电量	度 / h	90
产品构成	/	液压剪切系统, 四方弯曲系统, 四方焊接系统, 液压成型系统, 成型焊接系统, 传输系统, 电气控制系统
焊接方式	/	电阻焊
模具图纸	/	需要图纸开模
占地面积 (长×宽)	mm	7000*16000
上料方式	/	自动, 客户自备上料架

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Automatic Production Line For 8 Shaped Tendons

Product Introduction:

This equipment integrates the functions of cutting, shaping, welding, forming and welding raw steel bars, with a small footprint and high degree of automation. It achieves integrated molding from raw materials to finished products without manual intervention. Mainly used for the production of tunnel grid arches.

Main Features:

- The integrated functions of cutting, square, "8" shaped tendon forming, and welding have replaced the traditional manual transportation between single equipment, reducing labor costs by 60%.
- The forming mechanism adopts hydraulic power, with stable performance and high efficiency.
- Unique resistance welding automatic welding, reducing manual input.
- Cooling water circulation and air cooling circulation effectively prevent system overheating.
- PLC combined with touch screen operation interface, user-friendly human-machine interface, and convenient operation.



Item	Unit	TXB-16
Reinforcement diameter	mm	Φ10-16
Max. production capacity	pcs/h	200
Accuracy	mm	±1
Total power of equipment	kW	465
Average power consumption	kW/h	90
Product composition	/	Hydraulic shearing system, square bending system, square welding system, hydraulic forming system, forming welding system, transmission system, electrical control system
Welding method	/	Resistance welding
Mold drawings	/	Drawing and mold making required
Land area (length x width)	mm	7000*16000
Feeding method	/	Automatic, customer provided feed rack

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▶ 连接板生产线

产品介绍:

该设备改变了过去人工上料,搬运的模式,实现了PLC控制自动上料,分剪,冲孔一体化。提高了生产效率,节省人工成本。

该机主要优点:

- 自动送料,只需将整张钢板放至送料台,即可实现自动进料,自动剪切,自动冲孔。
- 剪板机采用液压剪板,PLC控制,精度高,性能稳定。
- 按客户需求订制模具,客户只需将连接板图纸发送至公司即可。



项目	单位	TXL-20
剪切板规格	mm	20×2500×9000
设备功率	kW	70
上料方式	/	整板人工上料, 输送剪切冲孔自动
占地面积 (长×宽)	mm	14000×6000

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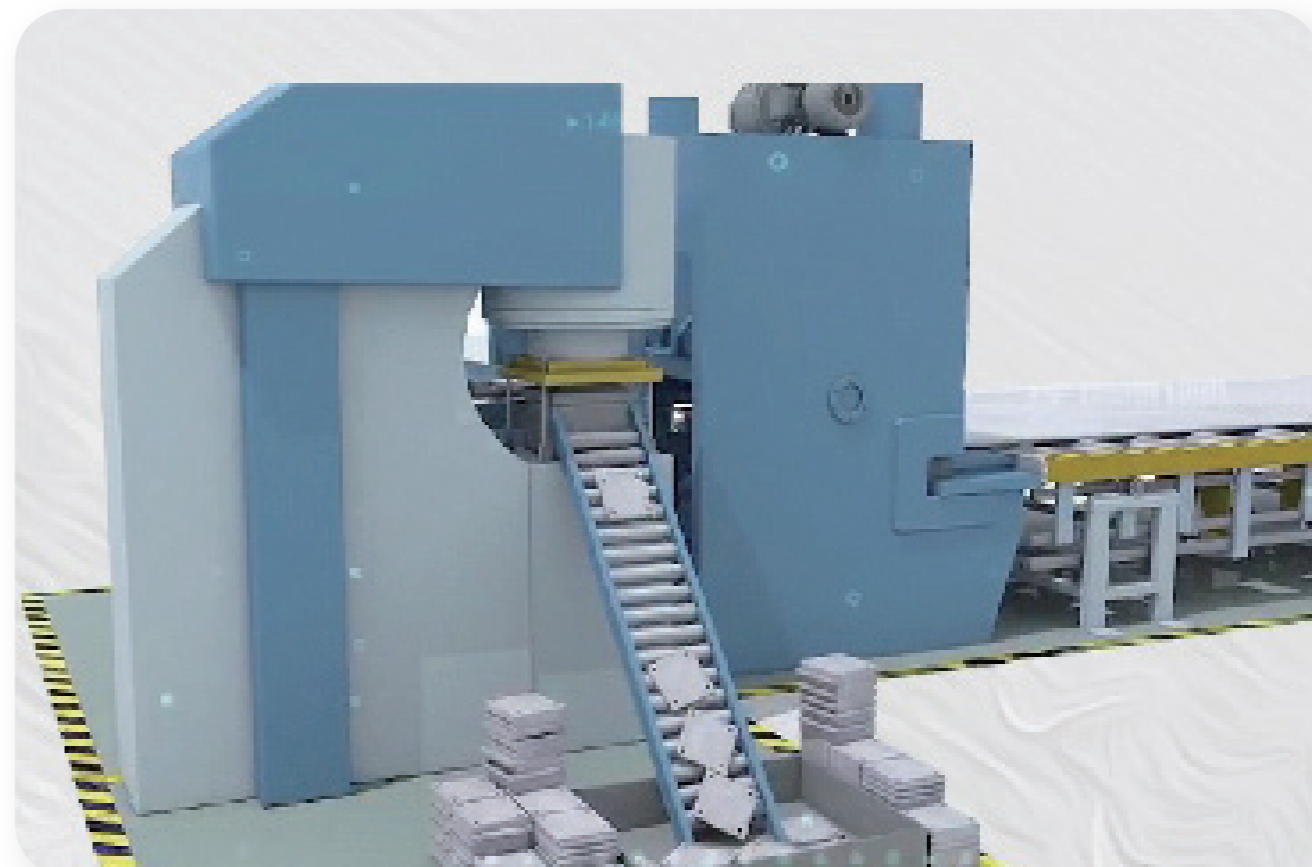
▶ Connection Board Production Line

Product Introduction:

This device has changed the previous manual feeding and handling mode, and achieved the integration of PLC control for automatic feeding, cutting, and punching. Improved production efficiency and saved labor costs.

Main Features:

- Automatic feeding, simply place the entire steel plate on the feeding table to achieve automatic feeding, cutting, and punching.
- The shearing machine adopts hydraulic shearing and PLC control, with high accuracy and stable performance.
- Customized molds according to customer needs, customers only need to send the connection plate drawings to the company.



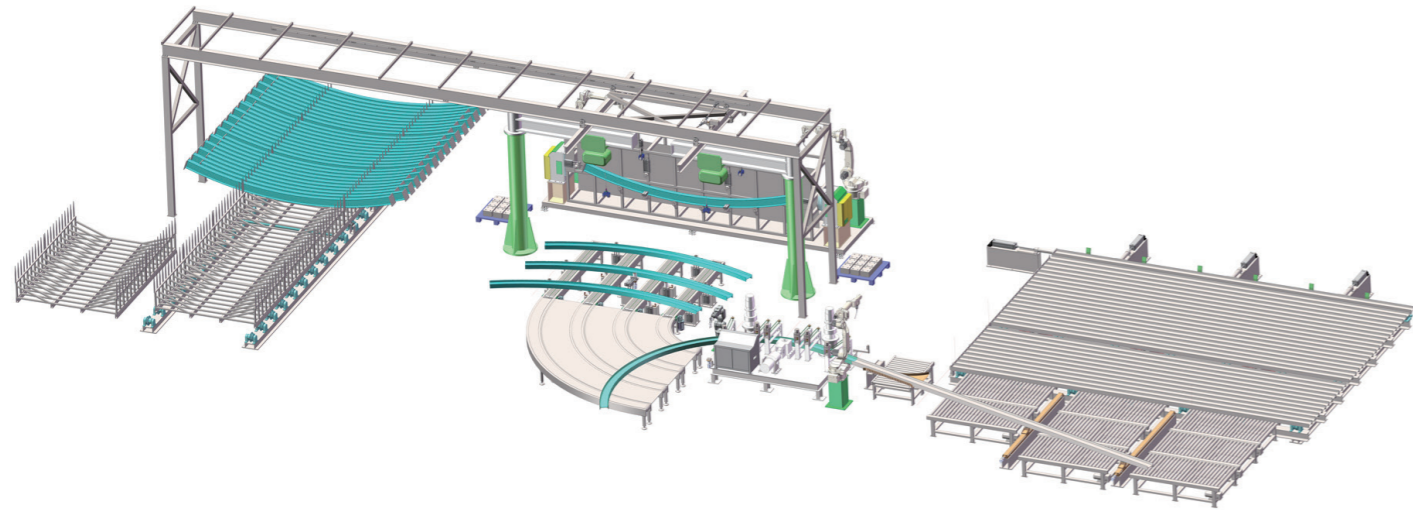
Item	Unit	TXL-20
Shearing plate specifications	mm	20×2500×9000
Equipment power	kW	70
Feeding method	/	Manual loading of the entire board, automatic conveying, shearing and punching
Land area (length x width)	mm	14000×6000

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拱架自动生产线

产品介绍:

该自动生产线针对工字钢成型制作,包括原料上料、材料续接、数控冷弯、机器人切割、自动传输、机器人对板、机器人焊接、成品出料八个工序,每个工序均实现自动化作业,极大地提高了作业效率,降低了人员劳动强度。生产全程实现信息化集成,生产数据及设备状态实时上传云端,确保购买者及时掌握现场工况。



注:可根据用户要求定制不同型号的产品。

项目	技术参数	备注
工字钢型号	14-22#	
型钢弦长范围	2.7-6.5m	
型钢半径范围	≥4米	
型钢弦高范围	≤1米	
型钢弧长加工精度	±2mm	
冷弯线速度	≤4.5 m/min	
端板焊接效率(16#)	5-6min/根	
端板与型钢对位精度	±0.5mm	
成品架堆放型钢数量	10 根	(16#,6mn)
生产效率(16#,6mm)	10 根/h	
装机总功率	55kW	
电源	380V/50HZ	
工作温度	-5~40°C	
气路压力	0.6MPa	
外形尺寸	36*11*2.1m	

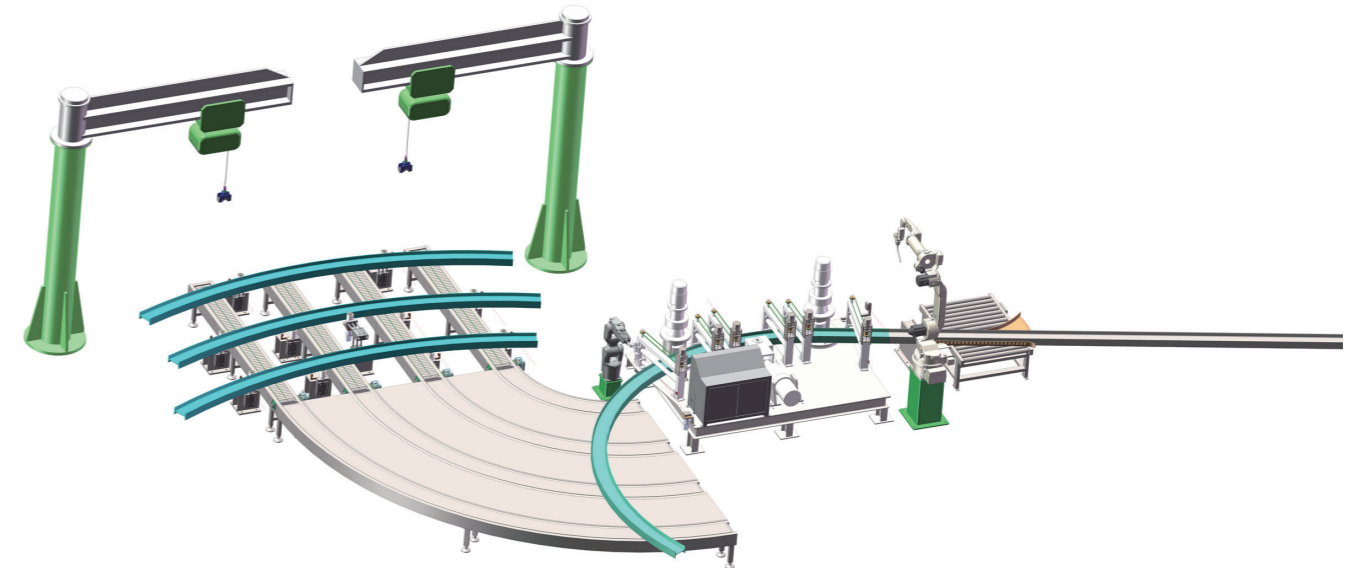
Item	Technical parameter	Remark
I-beam model	14-22#	
Steel chord length range	2.7-6.5m	
Steel radius range	≥4米	
Steel chord height range	≤1米	
Steel arc length processing accuracy	±2mm	
Cold bending line speed	≤4.5 m/min	
End plate welding efficiency (16#)	5-6min/PC	
Alignment accuracy between end plate and section steel	±0.5mm	
Qty. of stacked steel sections on finished rack	10 PC	(16#,6mn)
Production efficiency (16#,6mm)	10 PC/h	
Total power	55kW	
Power supply	380V/50HZ	
Operating temperature	-5~40°C	
Air line pressure	0.6MPa	
Dimensions	36*11*2.1m	

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Arch Automatic Production Line

Product Introduction:

This automatic production line is designed for I-beam forming and production, including eight processes: raw material loading, material splicing, CNC cold bending, robot cutting, automatic transmission, robot plate alignment, robot welding, and finished product discharging. Each process is automated, greatly improving operating efficiency and reducing personnel labor intensity. The entire production process is integrated with informatization, and production data and equipment status are uploaded to the cloud in real time to ensure that buyers can grasp on-site working conditions in a timely manner.



Note: Different models of products can be customized according to user requirements.

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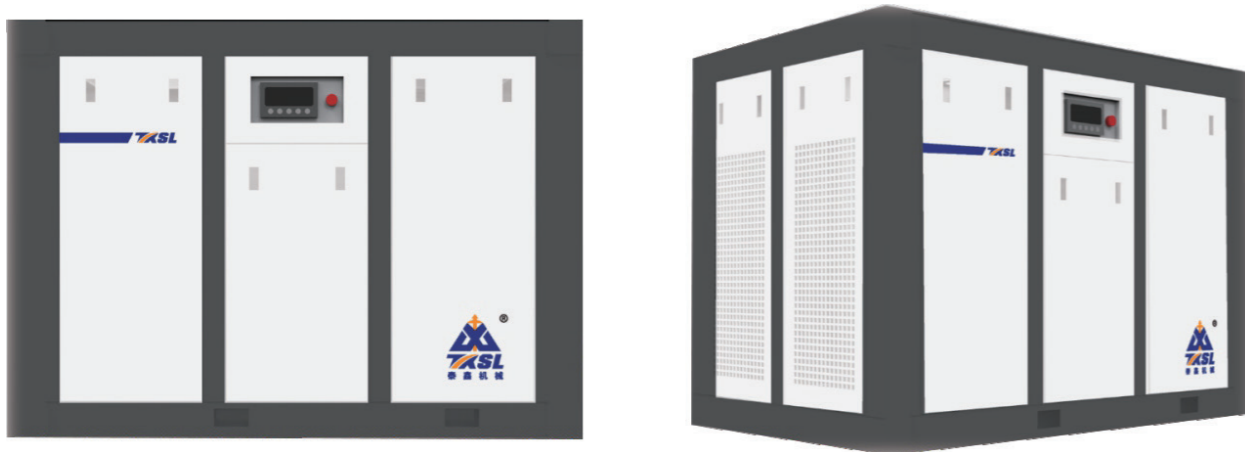
▶ 螺杆空压机

应用范围:

泰鑫螺杆空压机主要用于隧道、矿山、水利水电、地铁等领域巷道施工,具有节能、高效、耐用等特点。

该机主要优点:

- 采用0-100%排气量无极调节,节能效果最优。两级压缩螺杆空压机,采用两级压缩、级间冷却、压缩过程基本等温压缩,能效达到1级标准。
- 高效的主机以及固有的进气调节设计、冷却流场设计、油气分离技术、高效电机、智能自动控制等创新技术,将为用户带来实实在在的节能效益。
- 全新压缩机集控进气阀件,下沉式重力感应止回阀,有效防止主机倒喷油的同时,更大程度降低进气阻力损失。
- 运行低噪音、低振动、使用寿命长。



型号	级数	电机功率	排气压力	排气量	重量	气管	噪音
		(kW)	(MPa)	(m³/min)	(kg)	接口	(dB)
TX-175AZ	单级	90	0.4	25.2	2900	G2 1/2"	73
		110	0.5	24.8			74
		132	0.7	24.5		75	
			0.8	24		75	
			1	20.5		75	
TX-200AZ	单级	110	0.4	29.6	3200	G3"	74
		132	0.5	29.2			75
TX-150II	双级	110	0.7	25	2760	G2 1/2"	73
			0.8	23.8			73
			1	19.7			73
TX-175II	双级	132	0.7	30	3300	G3"	74
			0.8	28			74
			1	23.5			74

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▶ Screw Air Compressor

Application:

Taixin screw air compressor is mainly used in tunnel, mining, water conservancy and hydropower, subway and other fields for tunnel construction, with the characteristics of energy conservation, high efficiency, and durability.

Main Features:

- Adopting 0-100% infinitely adjustable exhaust volume, the energy-saving effect is optimal. A two-stage compression screw air compressor adopts two-stage compression, interstage cooling, and basic isothermal compression during the compression process, achieving energy efficiency of level 1 standard.
- Efficient hosts and innovative technologies such as inherent intake regulation design, cooling flow field design, oil and gas separation technology, high-efficiency motors, and intelligent automatic control will bring tangible energy-saving benefits to users.
- The brand new compressor has a centralized control intake valve and a sunken gravity sensing check valve, which effectively prevents the main engine from injecting oil backwards while reducing the loss of intake resistance to a greater extent.
- Low noise, low vibration, and long service life during operation.



Model	Series	Motor power	Exhaust pressure	Exhaust volume	Weight	Trachea	Noise
		(kW)	(MPa)	(m³/min)	(kg)	Interface	(dB)
TX-175AZ	Single level	90	0.4	25.2	2900	G2 1/2"	73
		110	0.5	24.8			74
		132	0.7	24.5		75	
			0.8	24		75	
			1	20.5		75	
TX-200AZ	Single level	110	0.4	29.6	3200	G3"	74
		132	0.5	29.2			75
TX-150II	Double stage	110	0.7	25	2760	G2 1/2"	73
			0.8	23.8			73
			1	19.7			73
TX-175II	Double stage	132	0.7	30	3300	G3"	74
			0.8	28			74
			1	23.5			74

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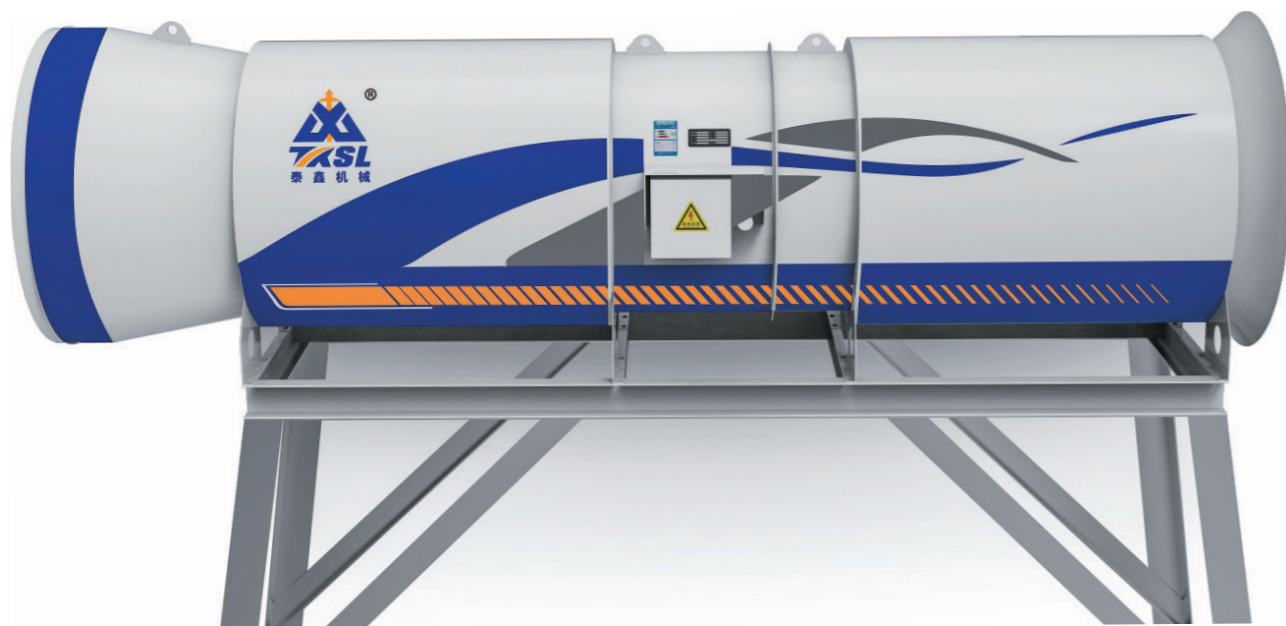
轴流隧道通风机

应用范围:

轴流隧道通风机主要适用于高铁、高速公路、水利水电、地铁、引水洞、化工仓库、市政电缆隧洞、金属矿山隧道等领域。

该机主要优点:

- 高效节能:永磁变频单机可在100赫兹内无级变速调节,电机为永磁同步变频,可以根据隧道进洞距离长度调节所需风量,使用更节能。比如进洞500米,频率调节至35赫兹即可满足风量要求,相较传统风机,可以节省用电35%以上。
- 风机叶片利用高效翼型以及精确的多角度热成型模压翼型工艺,真正实现了准确的钢制机翼型轴流风机叶片。风阻更小,效率更高。
- 风机筒体经过大型机床加工内径,准确的尺寸可靠的保障了叶轮与机壳的理想间隙,从而保障了风机的高效运行。
- 高效的气动设计使风机噪声有效的降低,再配以良好的进出口消声器,整个机组噪声符合国家相关要求。



项目	单位	TX-CL-12.5	TX-CL-12.5	TX-CL-14	TX-CL-14	TX-CL-14	TX-CL-16
功率	kW	75	90	110	132	160	200
流量	m ³ /s	30	35	40	48	56	50
压力	pa	1640	1560	2100	2100	1960	2400
理论轴功率	kW	61.55	82.5	105	118.59	137.2	150
噪声	dB	≤85	≤85	≤85	≤85	≤85	≤85
通风距离	m	1200-1500	1500-1800	1800-2200	2200-2500	2500-3000	3000-3500

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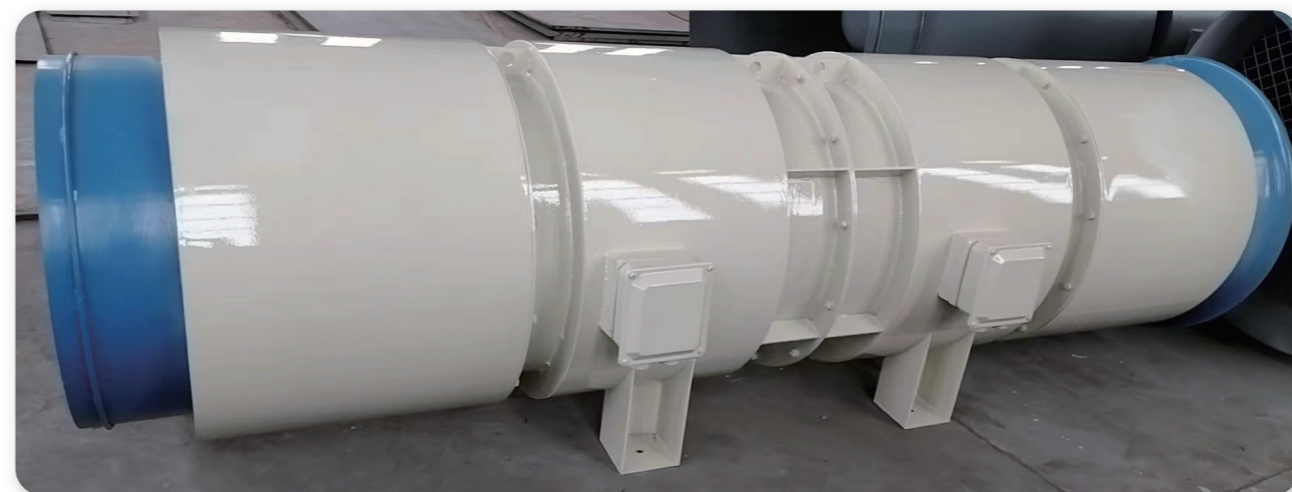
Axial Flow Tunnel Ventilation Fan

Application:

Axial flow tunnel ventilation fans are mainly suitable for high-speed railways, highways, water conservancy and hydropower, subways, water diversion tunnels, chemical warehouses, municipal cable tunnels, metal mining tunnels and other fields.

Main Features:

- Efficient and energy-saving: The permanent magnet frequency converter can adjust continuously within 100 Hz, and the motor is a permanent magnet synchronous frequency converter. The required air volume can be adjusted according to the length of the tunnel entrance distance, making it more energy-efficient to use. For example, when entering a 500 meter tunnel, adjusting the frequency to 35 Hz can meet the air volume requirements, which can save more than 35% of electricity compared to traditional fans.
- The fan blades utilize efficient airfoils and precise multi angle hot forming and compression molding processes, truly achieving accurate steel wing shaped axial flow fan blades. Smaller wind resistance and higher efficiency.
- The inner diameter of the fan cylinder is processed by a large machine tool, and the accurate size reliably ensures the ideal clearance between the impeller and the casing, thereby ensuring the efficient operation of the fan.
- Efficient pneumatic design effectively reduces the noise of the fan, coupled with good inlet and outlet silencers, ensuring that the overall noise of the unit meets relevant national requirements.



Item	Unit	TX-CL-12.5	TX-CL-12.5	TX-CL-14	TX-CL-14	TX-CL-14	TX-CL-16
Power	kW	75	90	110	132	160	200
Flow	m ³ /s	30	35	40	48	56	50
Pressure	pa	1640	1560	2100	2100	1960	2400
Theoretical axis power	kW	61.55	82.5	105	118.59	137.2	150
Noise	dB	≤85	≤85	≤85	≤85	≤85	≤85
Ventilation distance	m	1200-1500	1500-1800	1800-2200	2200-2500	2500-3000	3000-3500

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▶ HH系列土工膜焊接机



应用范围:

土工膜焊接机适用于1.0mm以上HDPE、LDPE、EVA、PVC、PP及其他热熔性材料。

项目	单位	HH-615	HH-620	HH-620(三缝)
额定输入电压/频率	V	单相 220V±5%		
功率	W	800	800	1000
焊接速度	m/min	0-5.5 (可调)	0-5.5 (可调)	0-5.5 (可调)
加热温度	°C	0-450 (可调)	0-450 (可调)	0-450 (可调)
焊接材料厚度	mm	0.2-2.0	0.2-2.0	0.2-2.0
材料搭接宽度	mm	80-150	100-200	100-200
焊缝宽度	mm	17×2mm 中间空腔12mm	17×2mm 中间空腔12mm	17×3mm 中间空腔12mm
焊缝强度	%	≥85	≥85	≥85
重量	kg	5	5.3	6

▶ Geomembrane Welding Machine HH Series

Product Introduction:

The geomembrane welding machine is suitable for HDPE, LDPE, EVA, PVC, PP and other hot melt materials with a dimension of 1.0mm or more.

Item	Unit	HH-615	HH-620	HH-620 (three seam)
Rated input voltage/frequency	V	Single phase 220V ± 5%		
Power	W	800	800	1000
Welding speed	m/min	0-5.5 (adjustable)	0-5.5 (adjustable)	0-5.5 (adjustable)
Heating temperature	°C	0-450 (adjustable)	0-450 (adjustable)	0-450 (adjustable)
Welding material thickness	mm	0.2-2.0	0.2-2.0	0.2-2.0
Material overlap width	mm	80-150	100-200	100-200
Weld seam width	mm	17×2mm Intermediate cavity 12mm	17×2mm Intermediate cavity 12mm	17×3mm Intermediate cavity 12mm
Weld strength	%	≥85	≥85	≥85
Weight	kg	5	5.3	6

▶ 高频热熔焊机



产品介绍:

防水板与热熔垫片(圈)等热塑性塑料制品铆接、电焊、定位。

项目	单位	HH-EWM10	
输入电源	V/Hz	220v±15% 50/60Hz	
输出功率	W	8000W可调(单枪)	16000W可调(双枪)
最大允许电源电流	A	< 4 (500C 7A)	
工作环境温度	°C	25-45	
焊接直径	mm	Φ20-Φ90	
适用膜材	/	专用感应垫片、铁铝网感应垫片	
安全标准	/	GB115578-1996	
重量	kg	7公斤	10公斤
外形尺寸(长×宽×高)	mm	307×260×125	

注: ① 图片仅供参考外观设计变更恕不另行通知
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▶ High Frequency Hot Melting Welder

Product Introduction:

Riveting, welding, and positioning of thermoplastic products such as waterproof boards and hot melt gaskets (rings).

Item	Unit	HH-EWM10	
Input power supply	V/Hz	220v±15% 50/60Hz	
Output power	W	8000W adjustable (single gun)	16000W adjustable (dual gun)
Max. allowable power supply current	A	< 4 (500C 7A)	
Working environment temperature	°C	25-45	
Welding diameter	mm	Φ20-Φ90	
Applicable membrane materials	/	Special induction gasket, iron aluminum mesh, induction gasket	
Safety standards	/	GB115578-1996	
Weight	kg	7	10
Dimensions(LxWxH)	mm	307×260×125	

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CONSTRUCTION MACHINERY RENTAL

工程机械租赁 (湿喷台车/凿岩台车/智能拱架台车)

为更好满足市场需求, 2018年公司在行业率先推出设备+服务理念, 现已形成凿岩系列、喷浆系列、智能钢筋加工系列等多领域, 全系列租赁服务体系, 为打造集团化工程机械产业集群奠定了良好的基础。

In order to better meet market demand, the company took the lead in the industry in 2018 to launch the equipment + service concept. A full range of rental service systems have been formed in various fields such as rock drilling jumbo series, shotcrete machine series, and intelligent steel bar processing series. It has laid a good foundation for building collectivized engineering machinery industry cluster.



ENGINEERING CASE 租售合作工程案例 (部分)



西渝高铁冉家坡隧道
West Chongqing High speed Railway
Ranjiapo Tunnel



西成铁路班佑隧道
Xicheng Railway
Banyou Tunnel



西香高速西昌隧道
Xixiang Expressway
Xichang Tunnel



本桓高速马路沟隧道
Benhuan Expressway
Malugou Tunnel



北部湾4标塘口、中垌隧道
Beibu Gulf Section 4 Tangkou
Zhongdong Tunnel



垣曲抽水蓄能水电站
Yuanqu pumping
Energy storage hydropower station

ENGINEERING CASE 租售合作工程案例 (部分)



芦稿隧道
Lugao Tunnel



延安隧道4#斜井
Yan'an Tunnel
4 # inclined shaft



中铁隧道局深江铁路
China Railway Tunnel Bureau
Shenjiang Railway



巴基斯坦Mohmand水电站项目
Pakistan Mohmand
Hydropower Project



巴基斯坦DASU KKH-02左岸改线公路项目
Pakistan DASU KKH-02
Left Bank Diversion Highway Project



川藏中铁一局
Sichuan-Tibet
China Railway First Bureau

