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汉江重工



中国铁建



提运架设备产品手册

Bridge Construction Equipment

中铁十一局集团汉江重工有限公司

Hanjiang Heavy Industry Co., Ltd of China Railway 11th Bureau Group

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公司简介 Company profile

Hanjiang Heavy Industry (hereinafter referred to as the company) is subordinate to China Railway 11th Bureau Group and evolves from repair detachment of No.1 Division of Railway Corps. In 1984, the detachment was wholly transferred into the repair shop of the 11th Engineering Bureau along the No.1 Division of Railway Corps and renamed into Machinery Factory of CRCC 11th Engineering Bureau then.

At present, the company possesses four manufacturing bases, including the production area in Aeronautic and Astronautic Industrial Park, Laohekou Machinery Factory, Longyou Machinery Factory, Xinjiang steel structure manufacturing branch, which cover a total land area of 480mu and production area of 120,000m². Now the company has gathered 380 technicians and 460 employees with various certificates. Its annual output exceeds 400 sets with annual product value more than RMB 1.5 billion Yuan.

Moreover, the company has been granted licenses of crane production, installation, maintenance and reconstruction, manufacture license of 900t bridge erecting machine, grade-I general contracting qualification of electric and mechanical installation and other market threshold certificates. Besides, it is accredited as a hi-tech enterprise of Hubei Province and has passed and implemented GB/T9001, GB/T24001 and GB/T28001.

In recent years, the company has been committed to developing itself into a domestic top equipment manufacturer, deepening the technological innovations, expanding production scale, promoting quality of all products and improving service network under the direction of strategy of CRCC and CRCC Limited to promote industrial sectors. Accordingly, the company has witnessed fast development in R&D and production of railway transportation, hoisting and frame equipment, high-capacity hoisting equipment, bridge construction equipment, light rail construction equipment and other products. Now the number of core customer is increasing for the company, enjoying a strong influence in CRCC and markets in and out of road construction fields.

The company is carrying forward excellent corporate culture and paying more attention to favorable outcomes of modern civilization all the time. By adhering to the corporate value outlook of sincerity and innovation for ever, quality and character at once and the business philosophy of facilitating all customers and creating a better life for people, the company promotes the technological innovations and always devotes itself into constant progress o construction equipment technology in an all-round way. It has evolved into a diversified and integrated modern enterprise focusing on the R&D and production of heavy equipment. Now, it is looking forward to providing high quality and all-round solutions for various working conditions and also serving all customers sincerely.

中铁十一局集团汉江重工有限公司隶属于中铁十一局集团，前身为1959年创建的铁道兵第一师修理营，1984年随铁一师兵改工集体转业为铁道部第十一工程局修理厂，后又更名为中铁十一局机械厂。

目前，汉江重工拥有航空航天工业园产区、老河口机械厂、龙佑机械厂、新疆钢结构分公司四个制造基地，占地面积480亩，生产场地12万平方米，各类技术人员380人，各类持证人员460人，年产重型装备400台/套以上，年生产能力15亿元以上。

公司拥有A级桥、门式通用起重机制造资质，A级桥、门式起重机安装、改造、维修许可证、超大型起重机械制造许可证、机电安装工程施工总承包壹级资质、钢结构工程专业承包壹级资质、矿山工程施工总承包壹级资质等市场准入证书，是湖北省高新技术企业，通过并实施了GB/T9001、GB/T24001、GB/T28001管理体系。

近年来，在集团公司、中国铁建股份公司做强做大工业板块的战略指引下，汉江重工以打造国内一流的装备制造企业为目标，通过深化技术创新，扩大生产规模，提高产品质量，健全服务网络，公司在矿山施工设备、铁路提运架设备、大型起重设备、桥梁施工设备、轻轨施工设备、市政环保设备、钢结构制造安装等产品的研发和制造方面发展迅速，核心客户日益增多，在中国铁建系统、路内和路外市场具有较强的影响力。

传承优良企业文化，凝结现代文明结晶，汉江重工践行“诚信、创新永恒，精品、人品同在”的企业价值观念，秉承“让客户工作更方便，让人们生活更美好”的经营理念，全面推动科技创新发展战略，始终致力于施工装备技术的不断进步，已逐步发展成为一家以重型装备研发制造为主体，多元化综合性现代企业，为各种工况下的机械施工提供高品质、全方位的解决方案，竭诚为广大客户服务。

提运架设备产品目录

900吨提运架设备

- TLJ450 型提梁机.....01
- MG_T450/10 提梁机.....03
- YLC900 运梁车.....05
- TY900 型过隧道运梁车.....07
- SPJ900/32B 箱梁架桥机.....09
- TQ900 型过隧道架桥机.....11
- SLJ900 流动式架桥机.....13

城市轻轨运架设备

- JQJ60/22 型架桥机.....16
- HP480T 型节段拼装架桥机.....17
- YLC65/24 型运梁车.....19

高速公路架桥机

- JQL/JQG 型公路架桥机.....21



● TLJ450 型提梁机
TLJ450 girder-hoisting machine



General descriptions of
TLJ450 girder-hoisting machine

1. Type TLJ450 girder-hoisting machine is applied to the hoisting, displacement and loading of whole span of box girders on precasting girder yards for railway and passenger transportation dedicated line. Moreover, it can be utilized for assembling beam carrying vehicle and bridge erecting machine on box girders. Its rated hoisting capacity is 450t. Two girder-hoisting machines are arranged to hoist one box girder. They have different hoisting mechanisms only. One machine realizes single-point hoisting and the other machine realizes double-point hoisting.

2. Support legs of the machine can be assembled and also reassembled from height of 28.5m to hoisting height of 14m to meet conditions with lower elevation.

TLJ450型提梁机概述

1. TLJ450型提梁机适用于铁路、客运专线预制梁场整孔箱梁的起吊、位移和装车，还适用于箱梁上运梁车与架桥机的组装，额定起重量为450吨。采用两台提梁机台吊一片箱梁，两台设备仅起升机构不同，一台为单点起吊，另一台为双点起吊。

2. 本提梁机支腿为可拼接形式，支腿可由28.5米改拼成14米的起升高度，便于低标高工况的使用。

TLJ450 型提梁机主要技术参数
Main technical parameters of TLJ450 girder-hoisting machine

作业参数 Operation parameters	起重量 Hoisting capacity	450t		利用等级 Utilization grade	U1	总重 Total weight	413.44t		
	起升高度 Hoisting height	14m		荷载状态 Load status	Q4		适应跨度 Applicable span	32m, 24m, 20m	
	吊梁起升速度 Girder hoisting speed	重载 Heavy load	0-0.5m/min		整机 Whole machine	A3	总体参数 General parameters	长×宽×高 Length X Width X Height	43.5×12.9×22.7(m)
		轻载 Light load	0-1m/min						
	大车行走速度 Machine running speed	重载 Heavy load	0-5m/min		结构 Structure	A3		内部净宽 Internal net width	36m
		轻载 Light load	0-10m/min						
	小车行走速度 Car running speed	重载 Heavy load	0-0.5m/min		起升机构 Hoisting mechanism	M4	大车行走方式 Machine traveling mode	双轨行走， 轨距1435m Double-track traveling at track spacing of 1435m	
		轻载 Light load	0-6m/min						
	作业最大风力 Operation maximum wind force	6级 Strong breeze		小车运行机构 Machine operating mechanism	M3				
	非作业风力 Non-operation wind force	11级 Violent storm		大车运行机构 Car operating mechanism	M4				



● MG_TL450/10 提梁机
MG_TL 450/10 girder-hoisting machine



MG_TL450提梁机，跨度36米，起升高度40米，应用于中铁十一局京福客专。

MG_TL450 girder-hoisting machine has a span of 36m and hoisting height of 40m, It is applied to Beijing-Fuzhou Passenger Transportation Dedicated Railway carried out by CRCC 11th Bureau Group.



MG_TL450提梁机，跨度36米，起升高度30米，应用于中铁十一局沪杭城际铁路。

MGTL450 girder-hoisting machine has a span of 36m and hoisting height of 30m, It is applied to Shanghai-Hangzhou Intercity Railway carried out by CRCC 11th Bureau Group.



MG_TL450提梁机，跨度36米，起升高度18米提梁机，应用于中铁二十五局大西铁路。

MGTL450 girder-hoisting machine has a span of 36m and hoisting span of 18m, It is applied to Datong-Xi'an Railway carried out by CRCC 25th Bureau Group.

General descriptions of MG_TL450/10 girder-hoisting machine

MG_TL450/10 wheel-track type girder-hoisting machine is developed and designed for moving and loading 900t box girders between different pedestals on precast box girder yards of express railway and dedicated passenger railway. Its rated hoisting capacity is 900t. Its hoisting height ranges from 18m to 40m and its span is 38m. Two machines work together to hoist, move and load 32m, 24m and 20m box girders by traveling under heavy load and transversely moving the car.

MG_TL450/10 wheel-track type girder-hoisting machine has main characteristics as below. 1. Strong environmental adaptability. Support leg of the portal structure is a herringbone structure and is configured with one straight section with the adjustable height to realize variable height and adapt to sites with varied pier heights. Compared with splay support leg, this type has strong universality and high economic efficiency. 2. Great safety and reliability. And all mechanisms of the machine are configured with advanced technologies and reliable products and featured with concise design. It suffers from fewer faults. The machine is not only arranged with conventional safety protection device but also installed with four-point hoisting leveling synchronization system and hoisting mechanism stalling protection system to prevent truly safe girder hoisting. 3. Easy installation and disassembling. During equipment installation and disassembling if friction type high-strength bolts are applied to structures of the machine, slip coefficient and torque coefficient of bolt reuse on steel plate surface will undergo great changes. Therefore, bolts shall be replaced. All connecting bolts of the machine are bearing type high-strength bolts to ensure easy installation, save cost on repeatedly procuring bolts and shorten construction period.

MG_TL450/10 提梁机概述

MG_TL450/10轮轨式提梁机是为了解决高速铁路、客运专线预制梁场900吨级箱梁在不同台座之间、不同作业区域之间转移、装车而研制开发的。额定起重重量900吨，起升高度18~40米，跨度38米，使用时两机联合作业，通过重载行走及起重小车横移，可实现32m、24m、20m箱梁提梁、移梁和装车。

MG_TL450/10轮轨式提梁机主要特点有：1. 工程环境适应性强。门架结构支腿为“人”字型结构，中间有一节可调节高度的“直体段”，根据不同工地的桥墩高度，调节腿的高度，移机到不同工地时，直接增减“直体段”高度，就可以实现变高，适应不同墩高的工地，与“八字”型腿比，通用性强，经济性较高。2. 安全可靠性好。本机所有机构均采用成熟的技术和可靠的产品，加之本机各机构的设计都很简洁，因此故障率很低。另外，本机除设有常规的安全防护设施外，还加装了四点起吊调平同步系统和起升机构失速保护系统，确保吊梁万无一失。3. 拆装便捷。如果设备结构件之间连接采用摩擦型高强度螺栓，当设备拆装时，其钢板表面抗滑移系数及螺栓重复利用其扭矩系数会发生较大变化，往往需要更换螺栓。本设备所有连接螺栓均采用承压型高强度螺栓，安装方便，同时节省了螺栓重复购置费用和缩短施工工期。

MG_TL450/10 提梁机主要技术参数

Main technical parameters of MG_TL450/10 girder-hoisting machine

作业参数 Operation parameters	起升高度 Hoisting height	450t	利用等级 Utilization grade	U1	总体参数 General parameters	整机总重 Total weight	H=18m	345t
	起升高度 (m) Hoisting capacity	18~40m		荷载状态 Load status		Q4	H=23m	362t
	吊梁起升速度 Girder hoisting speed	0.5m/min	整机 Whole machine			A3	H=26.5m	374t
	大车行走速度 Machine running speed	1~10m/min		结构 Structure		A3	H=30m	410t
	小车行走速度 Car running speed	0~5m/min	起升机构 Hoisting mechanism			M5	H=40m	457t
	作业最大风力 Operation maximum wind force	6级 Strong breeze		小车运行机构 Car operating mechanism		M5	适宜跨度 Applicable span	32m, 24m, 20m
	非作业风力 Non-operation wind force	11级 Violent storm	大车运行机构 Machine operating mechanism			M4	长x宽x高 Length X Width X Height	41.1x17.97xH(m)
							内部净宽 Internal net width	36m
					大车行走方式 Machine traveling mode	双轨行走，轨距1.2m，1.2m，Double-track traveling at track spacing of 1.2m		