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**TJK**  
**建科机械**

公司以“中国制造”为己任，坚持走自主创新之路，不断调整产品结构，创造出了拥有自主知识产权的智能化钢筋加工机器人装备和配套软件。目前公司持有有效专利三百多项，其中发明专利占比近60%；参与制定国家及行业标准15项。先后获得了国家火炬计划重点高新技术企业、全国企业知识产权试点单位、天津市优秀科技小巨人企业、天津市著名商标、天津市名牌产品、多项产品荣获天津市科技进步奖并参与承担科技部科技支撑项目。

2013年公司荣登“2013年福布斯中国非上市公司最具潜力企业100强”第43位。经过十多年的发展，公司已成长为行业内的领先企业之一。

公司位于陆路港物流装备产业园区的厂区，占地240亩，建筑面积10万平方米，是目前全球最大智能化钢筋加工装备研发及生产的基地。

未来公司将全面推动产业发展和行业升级，打造钢筋加工装备世界技术领先企业。

建科机械（天津）股份有限公司创建于2002年，注册资金7015万元，主要从事中高端数控钢筋加工装备的研发、设计、生产和销售，并提供数控钢筋加工的整体解决方案。公司产品广泛用于高速铁路、高速公路、桥梁隧道、轨道交通、地下管廊、核电水电等各类大型基础设施建设及装配式建筑、钢筋加工配送中心等领域。

公司与中国中铁、中国铁建、中国建筑、中国交建、中国核建、远大住工等国内多家大型企业建立了长期业务关系，同时还出口韩国、马来西亚、泰国、哈萨克斯坦、以色列、南非等近100个国家和地区，在国内同行业中处于较领先的地位。

**TJK**  
**MACHINERY**

TJK is the largest manufacturer in reinforcing steel and wire processing machinery in China.

TJK Machinery was founded in 1993, and was registered as a corporation company in 2002, we became public company in 2012.

Based on our industrial experiences and professional engineering team,

ing industry clients. TJK owns independent intellectual rights registered over 300 technical patents, which have further strengthened

TJK leading position in reinforcement processing industry. Now this most grand and modern new factory is the 4th one during the years, which covers an area of 270,000m<sup>2</sup> 1000 staffs. TJK has over 80% China market share, and all of our products have passed quality certification of ISO9001-2008 system, TUV and CE certificate and sold well in more than 90 countries. TJK is listed on FORBES Annual Ranking of China Up-and-Comers.

# 发展历程

## DEVELOPMENT HISTORY

简单的开始 SIMPLE BEGINNING

2002年, 天津市建科机械制造有限公司正式成立

钢筋调直切断机研制成功

钢筋网焊接生产线研制成功

2004年, 钢筋网焊接生产线研制成功

钢筋网焊接生产线研制成功

2006年, 钢筋桁架生产线研制成功 (全国首创)

2007年, 钢筋桁架生产线研制成功

2008年, 钢筋桁架生产线研制成功 (国内首创)

2010年, 可旋转式钢筋弯箍机研制成功 (国内首创)

2012年, 钢筋剪网机、弯网机研制成功

2012年, 钢筋乱尺分选机研制成功 (国内首创)

2014年, 钢筋复合加工中心研制成功 (国内首创)

2015年, 智能钢筋开孔网焊接生产线研制成功 (国内首创)

2016年, 三维智能钢筋弯箍机器人研制成功 (国内首创)

2017年, 智能钢格构焊接机器人GRID400 (国内首创)

2018年, 智能钢筋锯切滚丝机器人

全国首创

2008年

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# MES系统：工厂资源的全面整合、全程管控

# TJK EP 钢筋加工配送管理系统



## 从订单到成品

销售制定销售单



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## 从成品到客

计划员发起

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## 从原料采购到仓库

计划根据生产加工任务生成物料需求



MES(Manufacturing Execution System)是全面整合制造资源、全方位管理生产进度、质量、设备和人员绩效的制造业生产管理思想和管理工具，是一套面向制造业的、可执行的制造协同管理平台。MES系统设置了必要的接口，与提供生产现场控制设施的厂商建立合作关系。



## 智能钢筋调直机器人

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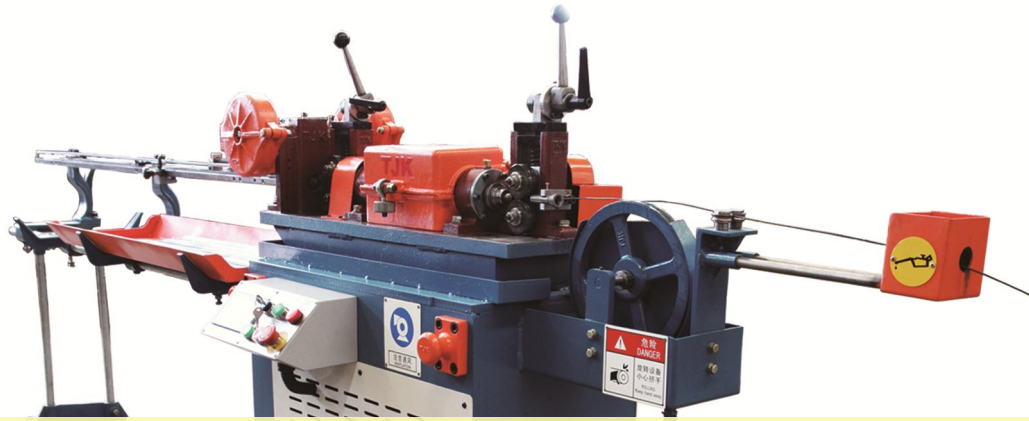
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GT1.8-3

智能钢筋调直机器人

Wire Straightening Machine









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	钢筋种类 Raw material	光圆或钢丝 Smooth coiled wire
	钢筋加工直径 Production capacity	Ø1.8 – Ø3 mm
	牵引速度 Feeding speed	Max. 35 m/min
	矫直系统 Straightening system	旋转式 Rotor type
	剪切长度 Cutting length	300 – 1,500 mm
	长度设置 Length setup	手动 Manual
	直线度公差 Straightness tolerance	2 mm/m
	长度误差 Length tolerance	±1 mm
	电力需求 Installed power	2.75 kW

GT3-7

智能钢筋调直机器人

Wire Straightening Machine



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	钢筋种类 Raw material	冷轧、热轧带肋钢筋、光圆或钢丝 (屈服强度 - 500N/mm <sup>2</sup> ) Cold drawn, hot rolled, smooth or ribbed wire (yield strength - 500N/mm <sup>2</sup> )
 x1	钢筋加工直径 Production capacity	Ø3 - Ø7 mm
	牵引速度 Feeding speed	Max. 100 m/min
	矫直系统 Straightening system	旋转式 Rotor type
	剪切方式 Cutting system	伺服剪切 Servo-motor
	剪切长度 Cutting length	800 - 6,000 mm
	长度设置 Length setup	手动 Manual
	直线度公差 Straightness tolerance	2 mm/m
	长度误差 Length tolerance	±1.5 mm
	电力需求 Installed power	20.9 kW

GT5-12

智能钢筋调直机器人

Wire Straightening Machine











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	钢筋种类 Raw material	冷轧、热轧带肋钢筋、光圆或钢丝 (屈服强度 - 500N/mm <sup>2</sup> ) Cold drawn, hot rolled, smooth or ribbed wire (yield strength - 500N/mm <sup>2</sup> )		
 x1	钢筋加工直径 Production capacity	冷轧: Ø5 - Ø12 mm Cold rolled wire, wire rod: Ø5 - Ø12 mm 热轧: Ø5 - Ø10 mm Hot rolled ribbed wire: Ø5 - Ø10 mm		
	牵引速度 Feeding speed	Max. 130 [m/min]	Max. 130 [m/min]	Max. 130 [m/min]
	矫直系统 Straightening system	旋转式 Rotor type	旋转式 Rotor type	旋转式 Rotor type
	剪切方式 Cutting system	伺服剪切 Servo-motor	伺服剪切 Servo-motor	飞剪剪切 Flying shears
	剪切长度 Cutting length	800 - 12,000 mm	800 - 12,000 mm	1,000 - 12,000 mm
	长度设置 Length setup	手动 Manual	手动 Manual	数控 CNC
	直线度公差 Straightness tolerance	2 mm/m	2 mm/m	2 mm/m
	长度误差 Length tolerance	±1 mm	±1 mm	±5 mm
	电力需求 Installed power	37.5 kW	39 kW	39 kW

# GT8-14

## 智能钢筋调直机器人

### Wire Straightening Machine



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Raw material	Cold drawn, hot rolled, smooth or ribbed wire (yield strength - 500N/mm <sup>2</sup> )				
冷轧: Ø8 - Ø14 mm	热轧: Ø8 - Ø13 mm	Hot rolled ribbed wire: Ø8 - Ø13 mm			
 x1 钢筋加工直径 Production capacity	Cold rolled wire, wire rod: Ø8 - Ø14 mm 热轧: Ø8 - Ø13 mm Hot rolled ribbed wire: Ø8 - Ø13 mm				
 牵引速度 Feeding speed	Max. 130 m/min	Max. 130 m/min	Max. 130 m/min	Max. 130 m/min	Max. 130 m/min
 矫直系统 Straightening system	旋转式 Rotor type	旋转式 Rotor type	旋转式 Rotor type	旋转式 Rotor type	旋转式 Rotor type
 剪切方式 Cutting system	伺服剪切 Servo-motor	伺服剪切 Servo-motor	伺服剪切 Servo-motor	伺服剪切 Servo-motor	飞剪剪切 Flying shears
 剪切长度 Cutting length	800 - 12,000 mm	800 - 12,000 mm	1,500 - 12,000 mm	1,500 - 12,000 mm	1,500 - 12,000 mm
 长度设置 Length setup	手动 Manual	手动 Manual	数控 CNC	数控 CNC	数控 CNC
 直线度公差 Straightness tolerance	2 mm/m	2 mm/m	2 mm/m	2 mm/m	2 mm/m
 长度误差 Length tolerance	±1 mm	±1 mm	±2 mm	±2 mm	±5 mm
 电力需求 Installed power	70.5 kW	72 kW	76.4 kW	76.4 kW	72 kW



GT8-12

智能钢筋调直机器人

Wire Straightening Machine



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		GT8-12	GT12-16
	钢筋种类 Raw material	冷轧、热轧带肋钢筋、光圆或钢丝 (屈服强度 $\geq 500\text{N/mm}^2$ ) Cold drawn, hot rolled, smooth or ribbed wire (yield strength - $500\text{N/mm}^2$ )	
	钢筋加工直径 Production capacity	$\varnothing 8 - \varnothing 12$ mm	$\varnothing 8 - \varnothing 12$ mm
	牵引速度 Feeding speed	Max. 180 [m/min]	Max. 180 [m/min]
	矫直系统 Straightening system	辊轮式 Roller type	辊轮式 Roller type
	剪切方式 Cutting system	飞剪剪切 Flying shears	飞剪剪切 Flying shears
	剪切长度 Cutting length	1,000 - 12,000 mm	1,000 - 12,000 mm
	长度设置 Length setup	数控 CNC	数控 CNC
	长度误差 Length tolerance	$\pm 5$ mm	$\pm 5$ mm
	电力需求 Installed power	54 kW	65.5 kW

**WGT 12**  
**智能钢筋调直机器人**  
**Wire Straightening Machine**



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	钢筋种类 Raw material	冷轧、热轧带肋钢筋、光圆或钢丝 (屈服强度 - 500N/mm <sup>2</sup> ) Cold drawn, hot rolled, smooth or ribbed wire (yield strength - 500N/mm <sup>2</sup> )
	钢筋加工直径 Production capacity	Ø5 - Ø13 mm (单线)      Ø5 - Ø8 mm (双线) Ø5 - Ø13 mm (single strand)    Ø5 - Ø8 mm (double strand)
	牵引速度 Feeding speed	Max. 110 m/min
	矫直系统 Straightening system	辊轮式 Roller type
	剪切长度 Cutting length	10 - 12,000 mm
	长度设置 Length setup	数控 CNC
	长度误差 Length tolerance	±1 mm