

# COMPANY PROFILE

## 公司简介



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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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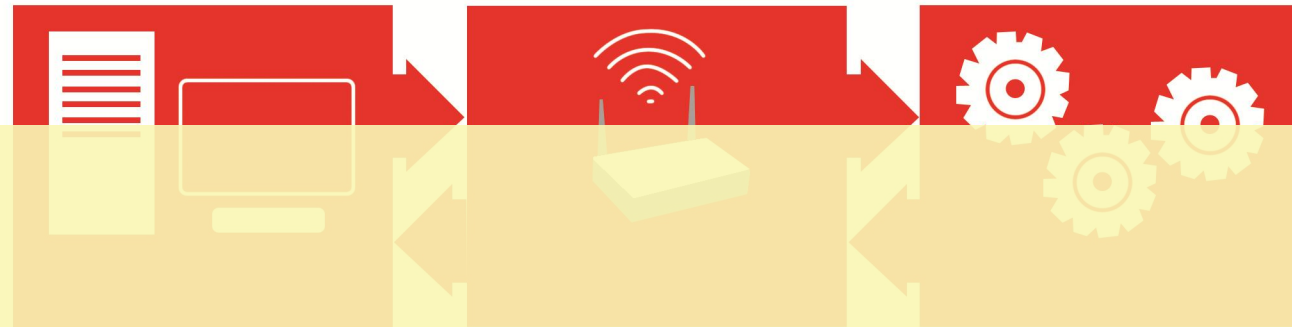
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# MES系统：工厂资源的全面整合、全程管控

# 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。





## 智能钢筋桁架焊接机器人

### Lattice Girder Welding Lines

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智能钢筋桁架焊接机器人  
Lattice Girder Welding Lines



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Material type	最大可焊接钢筋强度为 700 N/mm <sup>2</sup> Weldable reinforcing steel, tensile strength max. 700 N/mm <sup>2</sup>	
主筋直径 (上) • •	Longitudinal wire diameter (upper)	12 mm
主筋直径 (下) • •	Longitudinal wire diameter (lower)	10 mm
 弦筋直径 Diagonal wire diameter		7 mm
 桁架高度 Girder height		100 mm
 底座宽度 Girder internal base width		80 mm
 步距 Step/stroke		200 mm/ 焊接 200 mm/weld
 斜距 Diagonal spacing		200 mm
 桁架长度 Girder length		2.4 m
 最大生产速度 Production rate		Max. 10 m/min
 电力需求 (焊接) Installed power (welding)		500 KVA
 电力需求 (其他) Installed power (others)		60 kW



智能钢筋桁架焊接机器人  
Lattice Girder Welding Lines



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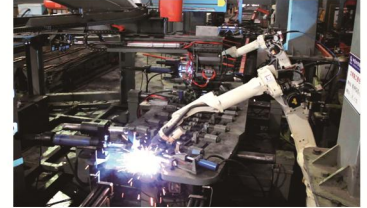
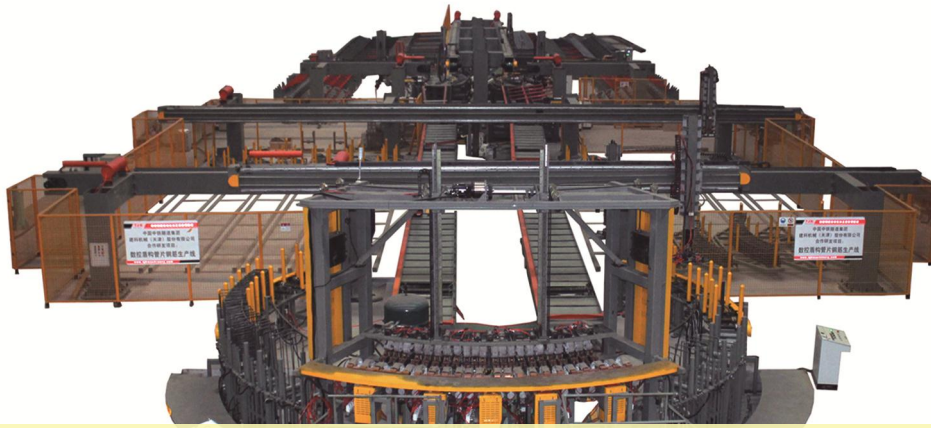
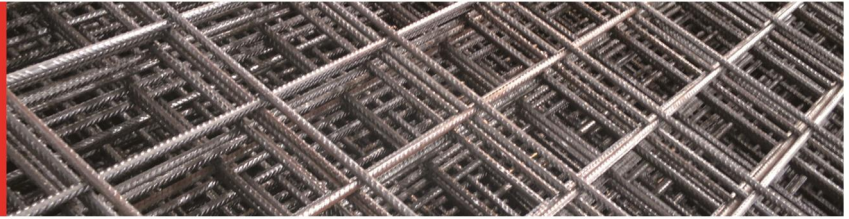
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Material type	Weldable reinforcing steel, tensile strength max. 700 N/mm <sup>2</sup>		
主筋直径 (上) Longitudinal wire diameter (upper)	6.0-12.0 mm	6.0-12.0 mm	6.0-12.0 mm
主筋直径 (下) Longitudinal wire diameter (lower)	6.0-12.0 mm	6.0-12.0 mm	6.0-12.0 mm
弦筋直径 Diagonal wire diameter	4.0-7.0 mm	4.0-7.0 mm	4.0-7.0 mm
桁架高度 Girder height	70-280 mm	70-300 mm	70-300 mm
底座宽度 Girder internal base width	70-90 mm	70-90 mm	70-90 mm
步距 Step/stroke	195-205 mm/ 焊接 195-205 mm/weld	195-205 mm/ 焊接 195-205 mm/weld	400 mm/ 焊接 400 mm/weld
斜距 Diagonal spacing	200 mm	200 mm	200 mm
桁架长度 Girder length	2.0-14.0 m	2.0-14.0 m	2.0-14.0 m
最大生产速度 Production rate	Max. 10 m/min	Max. 18 m/min	Max. 36 m/min
电力需求 (焊接) Installed power (welding)	250 KVA	320 KVA	640 KVA
电力需求 (其他) Installed power (others)	35 kW	37 kW	60 kW



**GP170**  
**智能化盾构管片钢筋**  
**生产机器人集群**  
**Tunnel Mesh Line**



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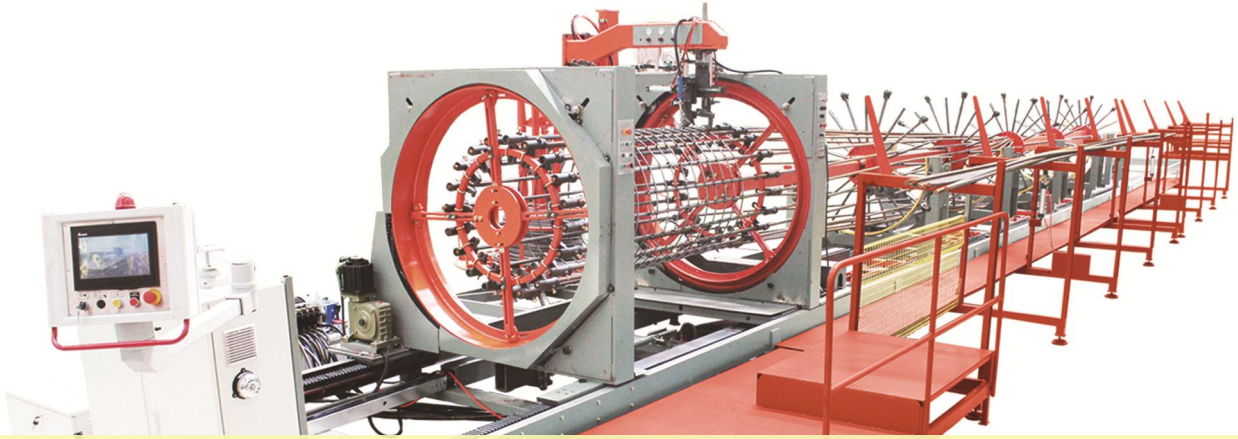
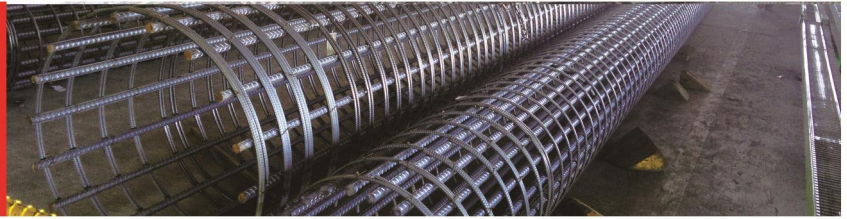
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立体成型机器人			单片网成型机器人		
	最大焊接能力 Max.welding Capacity	32+12mm		钢筋传送速度 Hoisting Speed	30m/min
	提升速度 Hoisting Speed	≤10m/min		弯曲钢筋直径 Single strand	20-32mm
	尺寸误差 Accuracy	±10mm		加工效率 Welding Speed	1片/min
	焊点数量 Welding Spot	48		电力需求 Installed power	15.8KW
	气路压力 The Gas Pressure	≥0.6Mpa		工作温度 Temperture	0—40°C
	水路压力 Water Pressure	≥0.2Mpa		设备尺寸 Dimension	4200-2870-1130mm
	水路流量 Quality of flow	≥64L/min			
	工作温度 Temperture	-5—40°C			
	电力需求 Power Supply	100KVA*10			
	设备重量 Weight	20.6T			
	设备尺寸 Dimension	11000-6500-7000mm			



## 集成化钢筋笼成型机器人 Cage Making Machine



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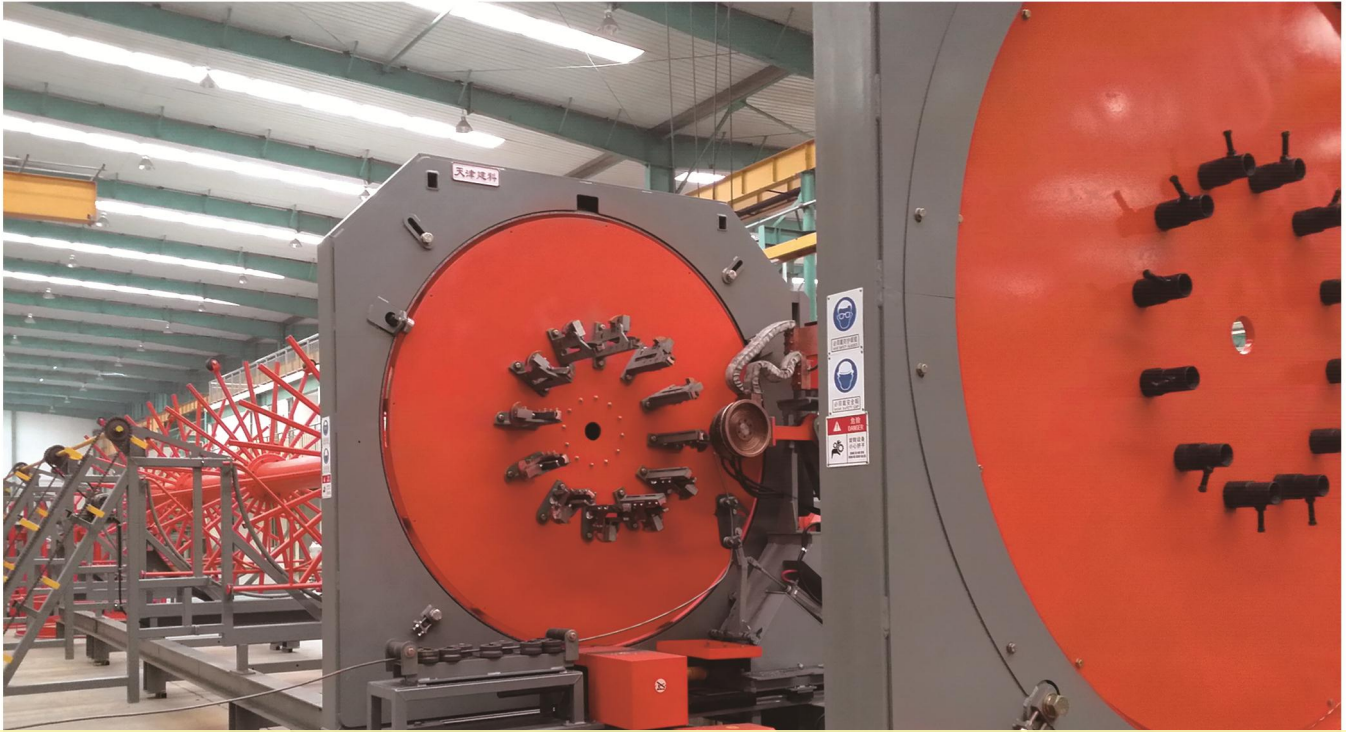
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		HL1500B-12	HLZ1500E-12
	钢筋笼直径 Cage diameter	Ø800 – Ø1,500 mm	Ø800 – Ø1,500 mm
	钢筋笼长度 Cage length	12 – 18 m 可定制 (above length on request)	12 – 15 m 可定制 (above length on request)
	螺旋筋直径 Spiral wire diameter	Ø6 – Ø12 mm	Ø6 – Ø12 mm
	主筋直径 Pile diameter	Ø16 – Ø32 mm	Ø16 – Ø32 mm
	焊接方式 Welding type	焊接机器人 Welding robot (CO <sub>2</sub> )	焊接机器人 Welding robot (CO <sub>2</sub> )
	电力消耗 Installed power	22.37 kW	22.37 kW
	外形尺寸 Overall dimension	19750 × 5650 × 2450 mm	28000 × 8450 × 2850 mm




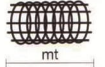







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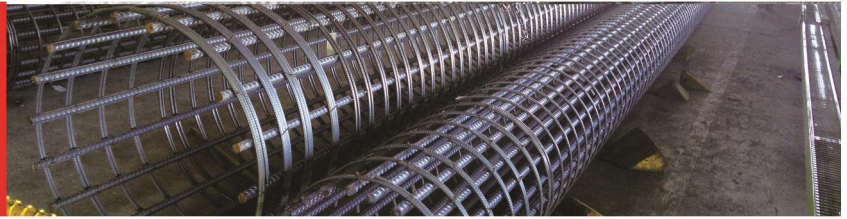
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		HLZ2000E-12	HLZ2000D-12
	钢筋笼直径 Cage diameter	Ø800 – Ø2,000 mm	Ø800 – Ø2,000 mm
	钢筋笼长度 Cage length	2 – 12 m 可定制 (above length on request)	2 – 12 m 可定制 (above length on request)
	螺旋筋直径 Spiral wire diameter	Ø6 – Ø12 mm	Ø6 – Ø12 mm
	主筋直径 Longitudinal bars diameter	Ø16 – Ø32 mm	Ø16 – Ø32 mm
	焊接方式 Welding type	焊接机器人 Welding robot (CO <sub>2</sub> )	电阻焊 Resistance welding
	电力消耗 Installed power	28.37 kW	357 KVA
	外形尺寸 Overall dimension	28000 × 9060 × 3300 mm	28000 × 9060 × 3175 mm

集成化钢筋笼成型机器人  
Cage Making Machine




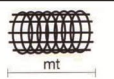





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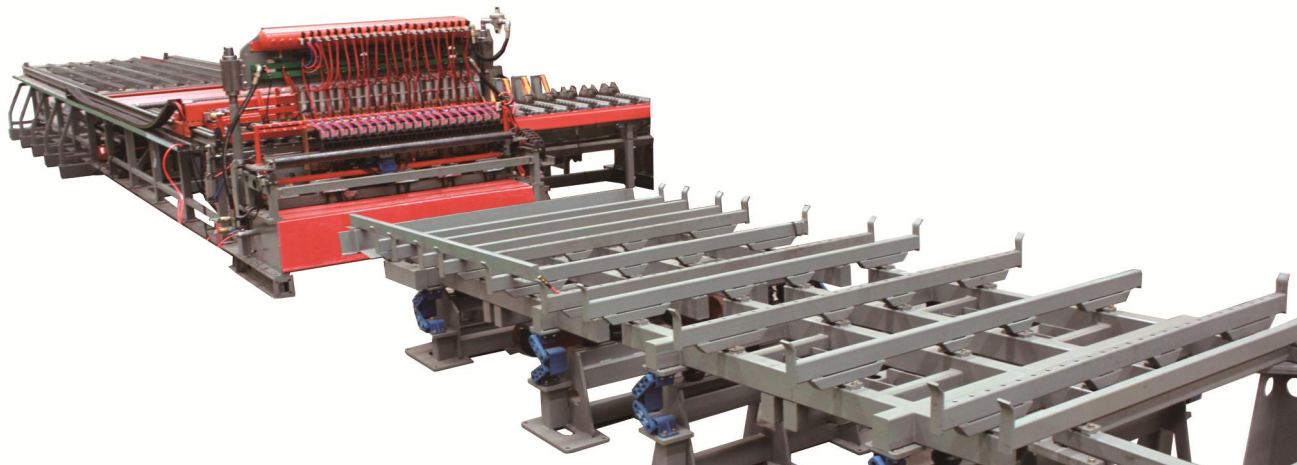
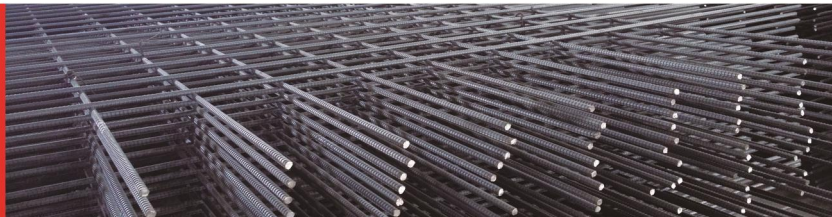
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HL2000E-X

	钢筋笼直径 Cage diameter	Ø800 – Ø2000 mm
	钢筋笼长度 Cage length	2 – 25 m (above length on request)
	螺旋筋直径 Spiral wire diameter	Ø6 – Ø12 mm
	主筋直径 Longitudinal bars diameter	Ø16 – Ø32 mm
	总重量 Total weight	10. 5t
	总功率 Total power	28 kW
	外形尺寸 Overall dimension	28000 × 9060 × 3300 mm



智能化钢筋管廊网焊接机器人  
Reinforcing Mesh Welding  
Line For Concrete Box-Culvert



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	最大网片宽度 Max. mesh widths	2000 mm
	网片长度 Mesh lengths	12000 mm
	网片折弯长度 Mesh Bending lengths	2000 – 8000 mm
	纵筋间距 Line wire spacing	≥100mm, 100mm 以上以 50mm 的倍数递增 min. 100 mm above multiples of 50 mm
	横筋间距 Cross wire spacing	≥50mm, 无级可调 min. 50 mm above automatic and stepless
	纵筋直径 Line wire diameter	12 – 18 mm
	横筋直径 Cross wire diameter	10 – 16 mm
	最大焊接能力 Max. Welding Capacity	16+18 mm
	工作速度 Working speed	≤40/min
	电力需求 Installed power	5 × 160 KVA