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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。

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 270,000m² 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.

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,

TJK
建科机械

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。

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

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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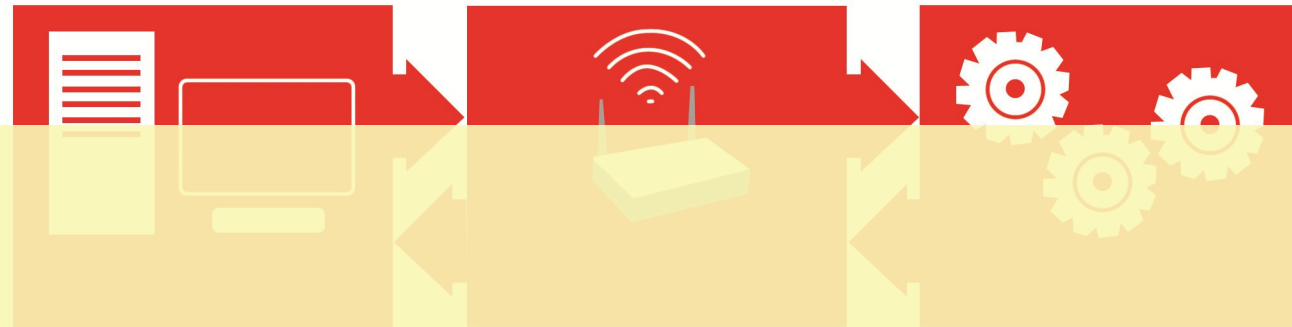
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MES系统：工厂资源的全面整合、全程管控

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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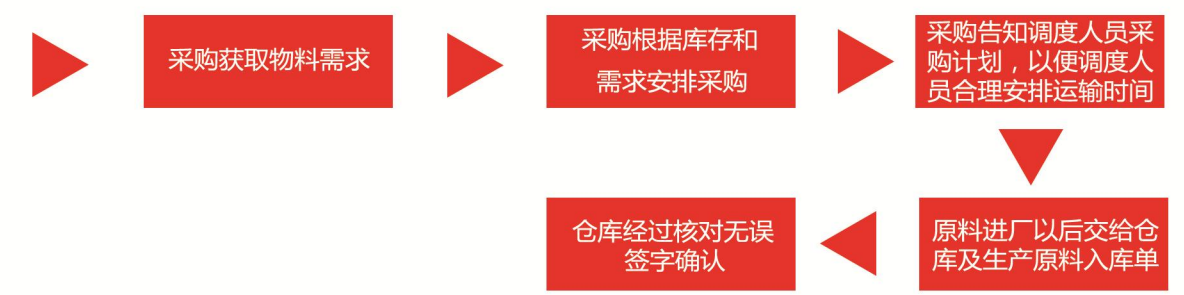
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从原料采购到仓库

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。



棒材加工机器人

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GJW 150B
钢筋剪切机器人
Shear Line










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	钢筋直径 Ø mm	10	12	16	20	22	25	28	32	35	40	45	50
	Bars diameter Ø mm	10	12	16	20	22	25	28	32	35	40	45	50
	剪切根数 Cutting bars n° (HRB335, ft=490Mpa)	60	50	30	26	24	21	18	15	14	8	6	4
	剪切根数 Cutting bars n° (HRB400, ft=570Mpa)	55	45	27	23	20	18	15	12	10	5	3	2
	剪切根数 Cutting bars n° (HRB500, ft=630Mpa)	50	40	25	20	18	15	10	6	4	3	2	1
	剪切速度 Cutting Speed	12 次 /min											
	送进速度 Conveying Speed	≤90 m/min											
	剪切长度 Cutting Length	750-12,000 mm											
	电力消耗 Average Power Consumption	27kW/h											

GJW 0816
钢筋剪切机器人
Shear Line



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	剪切根数 Cutting bars n° (HRB335, ft=490Mpa)	12	10	7	6	5	4	4	3	3	1	1
	剪切根数 Cutting bars n° (HRB400, ft=570Mpa)	12	10	7	5	5	4	3	2	2	1	1
	剪切根数 Cutting bars n° (HRB500, ft=630Mpa)	10	9	6	5	5	3	3	2	2	1	-
	剪切速度 Cutting Speed	≥16 次 /min										
	送进速度 Conveying Speed	≤60 m/min										
	剪切长度 Cutting Length	800-12,000 mm										
	电力消耗 Average Power Consumption	12kW/h										

GJW 1240
钢筋剪切机器人
Shear Line









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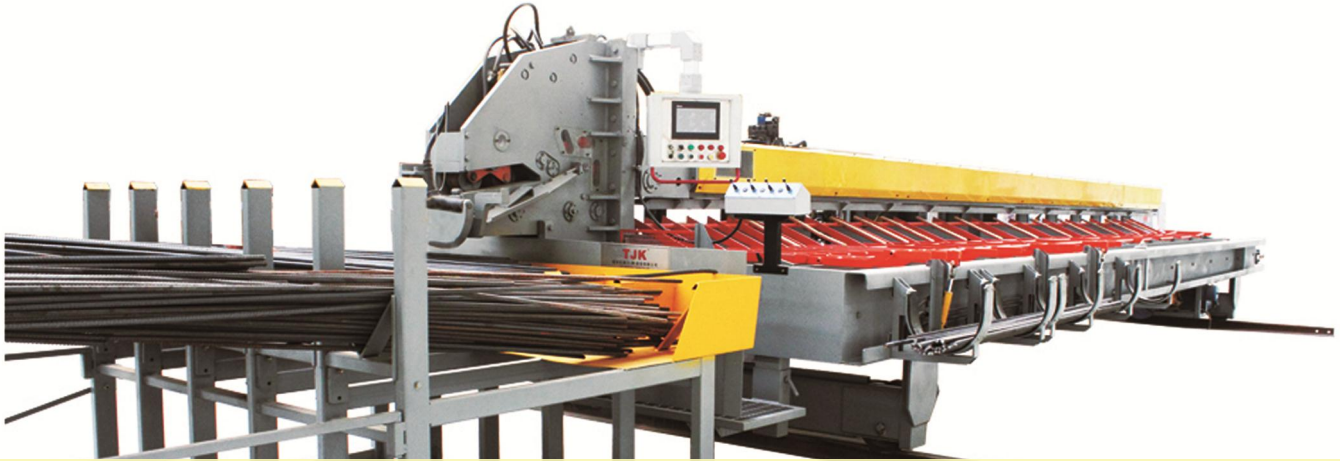
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		45	35	22	18	16	13	12	10	9	5	3	2
	剪切根数 Cutting bars n° (HRB400, ft=570Mpa)	37	30	18	15	14	10	9	7	6	3	2	1
	剪切根数 Cutting bars n° (HRB500, ft=630Mpa)	35	25	14	12	11	8	7	4	3	2	2	1
	剪切速度 Cutting Speed	12 次 /min											
	送进速度 Conveying Speed	≤90 m/min											
	剪切长度 Cutting Length	750-12,000 mm											
	电力消耗 Average Power Consumption	18kW/h											

GJD 1010
钢筋剪切机器人
Shear Line


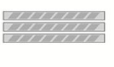


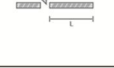



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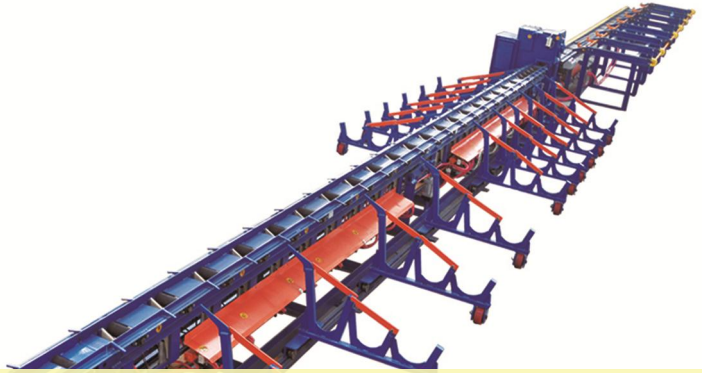
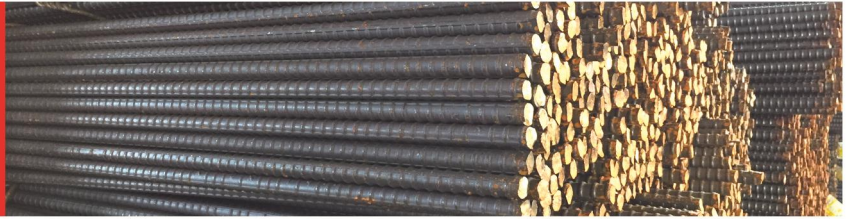
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		8	12	16	20	25	32	40
	钢筋直径 Ø mm Bars diameter Ø mm	8	12	16	20	25	32	40
	剪切根数 Cutting bars n° (HRB400, ft=570Mpa)	8	5	5	4	3	2	1
	剪切速度 Cutting Speed	20 次 /min						
	送进速度 Conveying Speed	≤115 m/min						
	剪切长度 Cutting Length	200-12,000 mm						
	电力消耗 Average Power Consumption	12kW/h						

XQ 120
钢筋剪切机器人
Shear Line








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	剪切根数 Cutting bars n° (HRB400, ft=570Mpa)	10	8	6	4	3	3	2	1	1	1
	剪切速度 Cutting Speed	20 次 /min									
	送进速度 Conveying Speed	≤60 m/min									
	剪切长度 Cutting Length	750-12,000 mm									
	电力消耗 Average Power Consumption	8kW/h									

GJW 150C
智能钢筋自动锯切机器人
Band Saw Cutting Machine








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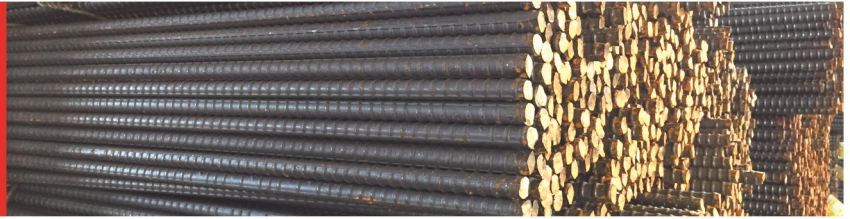
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		16	20	25	32	36	45	50
	剪切根数 Cutting bars n°	30	26	21	15	14	12	11
	锯切速度 Sawing Speed	2.5min/time						
	送进速度 Conveying Speed	≤90 m/min						
	锯切长度 Saw Length	800-12,000 mm						
	电力消耗 Average Power Consumption	16kW/h						

BJX 50
智能钢筋自动锯切机器人
Band Saw Cutting Machine










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	剪切根数 Cutting bars n°	20	18	17	15	13	10	10	9	8	6
	锯切速度 Sawing Speed	2.5min/time									
	送进速度 Conveying Speed	≤90 m/min									
	锯切长度 Saw Length	800-12,000 mm									
	套丝直径	16-40 mm									
	套丝长度	80 mm									
	电力消耗 Average Power Consumption	22kW/h									

GS 50

乱尺钢筋调直分选机器人
Scrap Sorting Machine



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	钢筋直径 Ø mm Bars diameter Ø mm	12 – 50 mm
	分选钢筋长度 Sorting bars length	3 - 13 m
	分选钢筋 Sorting length	每 500 mm Every 500 mm
	输送速度 Feeding speed	230 m/min
	电力需求 Total power	50 kW

Robot 60
平面式智能钢筋机器人
Bending Center




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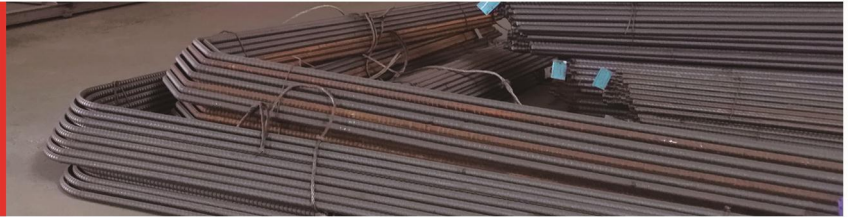
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	钢筋直径 \varnothing mm Bars diameter \varnothing mm	16	18	20	22	25	28	32	36	40	50
	弯曲根数 Bending bars n° (HRB400, ft=570Mpa)	6	6	5	5	4	3	3	2	1	1
	弯曲根数 Bending bars n° (HRB500, ft=630Mpa)	6	5	5	4	4	3	3	2	1	1
	弯曲速度 Bending speed	72°/sec									
	弯曲机移动速度 Mobile bender moving speed	45 m/min									
	电力消耗 Total power	22 kW									

G2W50

斜面式智能钢筋机器人

Bending Center



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钢筋弯曲机 Bars Bending Center		钢筋直径 Bars diameter Ø mm										
弯曲根数 Bending bars n°		5	5	3	3	3	2	2	2	2	1	1
	Bending bars n° (HRB335, ft=490Mpa)	5	5	3	3	3	2	2	2	2	1	1
	弯曲根数 Bending bars n° (HRB400, ft=570Mpa)	5	5	3	3	2	2	2	2	2	1	-
	弯曲根数 Bending bars n° (HRB500, ft=630Mpa)	4	4	3	2	2	2	2	2	1	1	-
	弯曲速度 Bending speed	54°/sec										
	弯曲机移动速度 Mobile bender moving speed	60 m/min										
	电力消耗 Total power	27 kW										

G2L32E-2
立式智能钢筋机器人
Bending Center








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	钢筋直径 \varnothing mm Bars diameter \varnothing mm	10	12	14	16	18	20	22	25	28	32
	弯曲根数 Bending bars n° (HRB335, ft=490Mpa)	6	5	4	3	2	2	2	1	1	1
	弯曲速度 Bending speed	0 ~ 9r.p.m									
	弯曲机移动速度 Mobile bender moving speed	0.5 ~ 1m/s									
	总功率 Total power	11.75kW									