



บริษัท ทีซีอาร์ โรบอทิกส์ (ไทยแลนด์) จำกัด
TCR Robotics (Thailand) Co., Ltd.
Address: 188/74 Moo 4 Soi Old Paisanee T. Bangpleeyai
A. Bangplee Samutprakarn 10540
Mail: tcr.robot.thailand@gmail.com, tcrrobotthailand@outlook.com
Tel : +66 (0)21028668
Service Line : +66 6 4789 1996
Website: www.tcr-robotics.com

深圳市同川科技有限公司
Shenzhen Tongchuan Technology Co., Ltd.



让工作更加智能，使人类更具智慧



公司简介 Company Profile

深圳市同川科技有限公司成立于2012年，拥有完整、科学的质量管理体系。公司当前主营业务为：冲压机器人及相关自动化系统改造、工业机器人本体及核心部件、非标自动化系统改造工程、进口机器人集成应用系统工程等，未来我们将继续创新并探索核心技术，开发出适合各类行业的自动化解决方案！依托优秀的人才架构，践行同心、同创、同享的精神，以其特有的创新理念、共享与包容，拥有强大的研发和工程团队，拥有大量的高端技术研发、工程人员等。公司针对冲压、搬运、码垛、焊接、喷涂等生产领域推出了专业的自动化解决方案，并在中国、越南、泰国、印度、马来西亚、新加坡设立了销售和服务中心，成功打造同川TCR工业机器人品牌。

Shenzhen Tongchuan Technology Co., Ltd. was established in 2012 and has a complete and scientific quality management system. The main business of the company include : the R&D/manufacturing/sale of stamping robots and related automation systems transformation, industrial robot body and core components, non-standard automation system renovation project, imported robot integrated application system project, etc. In the future, we will continue to strive to innovate and explore core technologies and develop solutions which is suitable for all kinds of industry automation. Based on our excellent talent structure, we practice the spirit of concentricity, co-creation, and enjoyment. With the unique idea of innovation, sharing and inclusion, we have a strong R&D and engineering team and a large number of high technology R&D engineers. The company launched professional automation solutions for stamping, handling, palletizing, welding, and spraying, and established professional sales and service centers in China, Vietnam, Thailand, India, Malaysia, and Singapore. We successfully built an industrial robot brand of Tongchuan TCR Robots.



产品目录

PRODUCT CATELOGUE

公司简介

Company Introduction

办公环境.....	1
Work Environments	
现场案例.....	2
On-site Example Products	
机型介绍.....	3
Model Introduction	
机器人专用控制器介绍.....	4
Robot Motion Controller	

冲压自动化解决方案

Stamping Automation Solutions

中小吨位冲压自动化解决方案.....	5
Medium- and Small-tonnage Stamping Automation Solutions	
油压拉伸自动化解决方案.....	7
Oil Press Automation Solutions	
大型吨位冲压自动化解决方案.....	8
Large-tonnage Stamping Automation Solutions	

冲压自动化解决方案专家 | TCR
Expert Of Stamping Automation Solutions | robotics

冲压自动化机型

Stamping Automation Models

标准型冲压机械手系列.....	9
Standard Stamping Manipulator Series	
高精版冲压机械手系列.....	11
High-precision Stamping Manipulator Series	
大负载冲压机械手系列.....	13
Heavy-duty Stamping Manipulator Series	
油压机械手系列.....	15
Oil Press Manipulator Series	
六轴机器人系列.....	17
6-axis Robot Series	
涂油机系列.....	19
Oil Paint Machine Series	
上料机系列.....	21
Feeding Machine Series	
端拾器系列.....	23
Tooling Series	

公司环境 Company Environments



现场案例 On-site Example Products



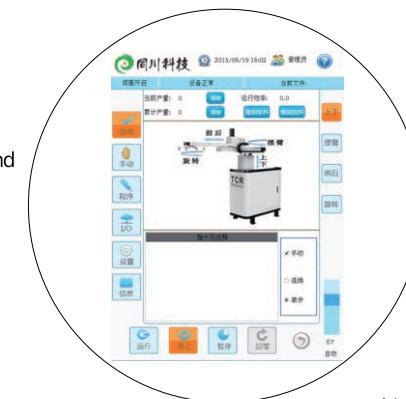
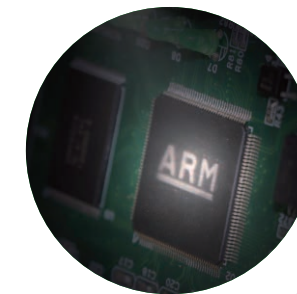
专注 冲压自动化 DEDICATED STAMPING AUTOMATION

您身边的 解决方案 专家 Your Solution Expert At Hand

机器人专用运动控制系统 Robot Motion Controller

- 1、针对冲压工艺，开发并优化机械手运行程序和算法，确保高效与安全；
To develop and optimize the operating procedure and algorithm of the manipulator in stamping process so as to ensure high efficiency and safety.
- 2、利用关节机器人控制系统平台，使冲压机械手具备各种机器人相关功能；
To utilize the platform of joint robot control system to equip the stamping manipulator with relevant functions.
- 3、控制系统可利用以太网或U盘文件进行远程升级，方便客户的定制化要求；
To use the control system to do remote upgrade through Ethernet or USB files, making it convenient for the client's customized requirements.
- 4、强大的文件管理和权限管理功能，可为您的生产保驾护航；
Powerful file and license management capability to secure your production.
- 5、其功能性远超市场通用的PLC。
With functionality exceeding those general-purpose PLCs in the market.

功能强大，随心所用
Powerful functions at your command



界面简洁易懂
User-friendly interface

功能强大
易学易用
安全高效

Powerful Functions
Easy to Learn and Operate
Safe and Highly Efficient



安全按钮，确保安全
Safety button to ensure safety



1.5米防摔设计
1.5-meter crash proof



拖动示教
Release to drag out demonstration



标准型冲压机械手系列
Standard Stamping Robotics



高精版机械手系列
High-precision Manipulator Series



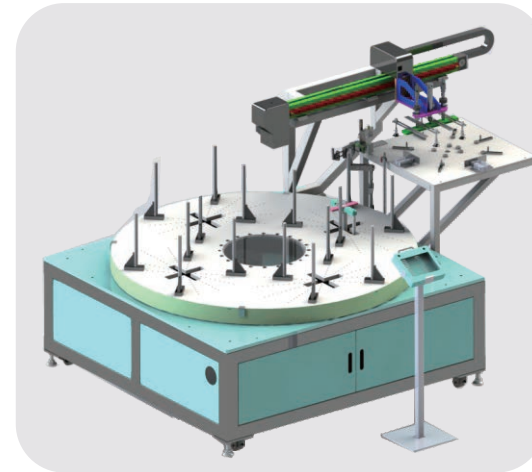
大负载机械手系列
Heavy-duty Manipulator Series



油压机械手系列
Oil Press Manipulator Series



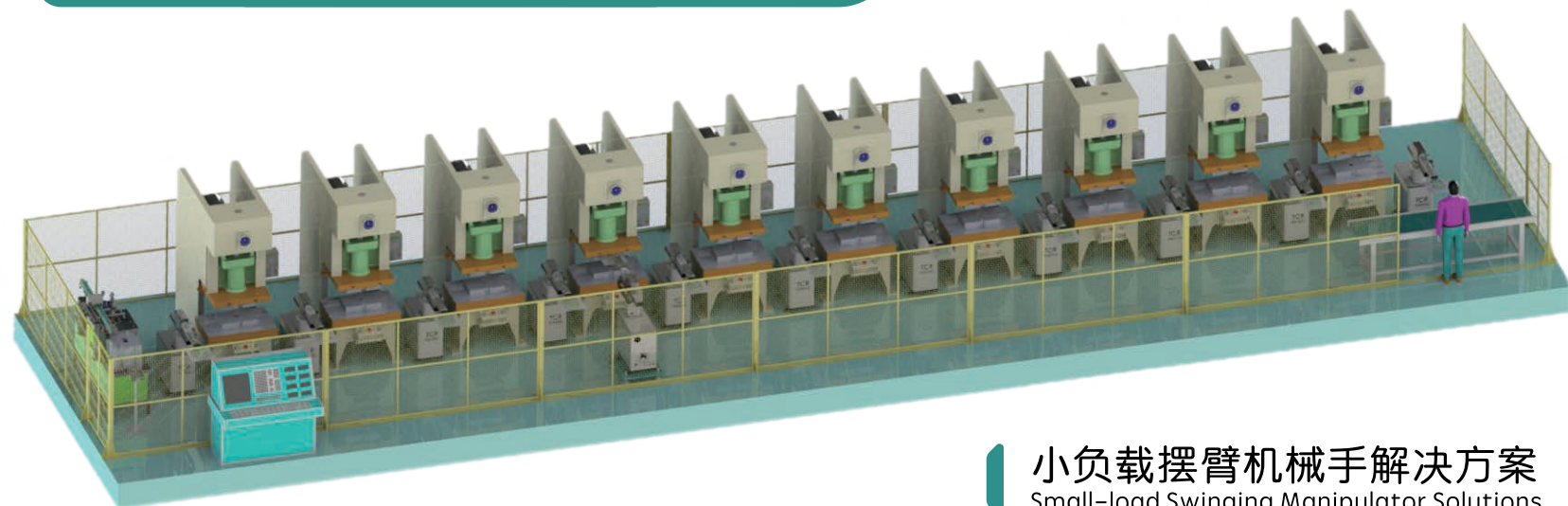
六轴机器人系列
6-axis Robot Series



上料机系列
Feeding Machine Series

中小吨位冲压自动化解决方案

Medium- and Small-tonnage Stamping Automation Solutions



小负载摆臂机械手解决方案

Small-load Swinging Manipulator Solutions

- 兼容200T以内各型号开式冲床
Compatible with any open-punch press within 200T
- 结构简单、易操作、性价比高
Simple structure, easy operation, and cost-effectiveness
- 体积小巧，可随时移动，灵活布线
Small volume, flexible positioning and agile wiring
- 快速调教，适应多产品共线生产
Quick to calibrate, and capable of multi-product collinear production
- 是小吨位开式冲床自动化的最佳选择
Best choice for small-tonnage open-punch press automation

中小吨位冲压自动化解决方案

Medium- and Small-tonnage Stamping Automation Solutions

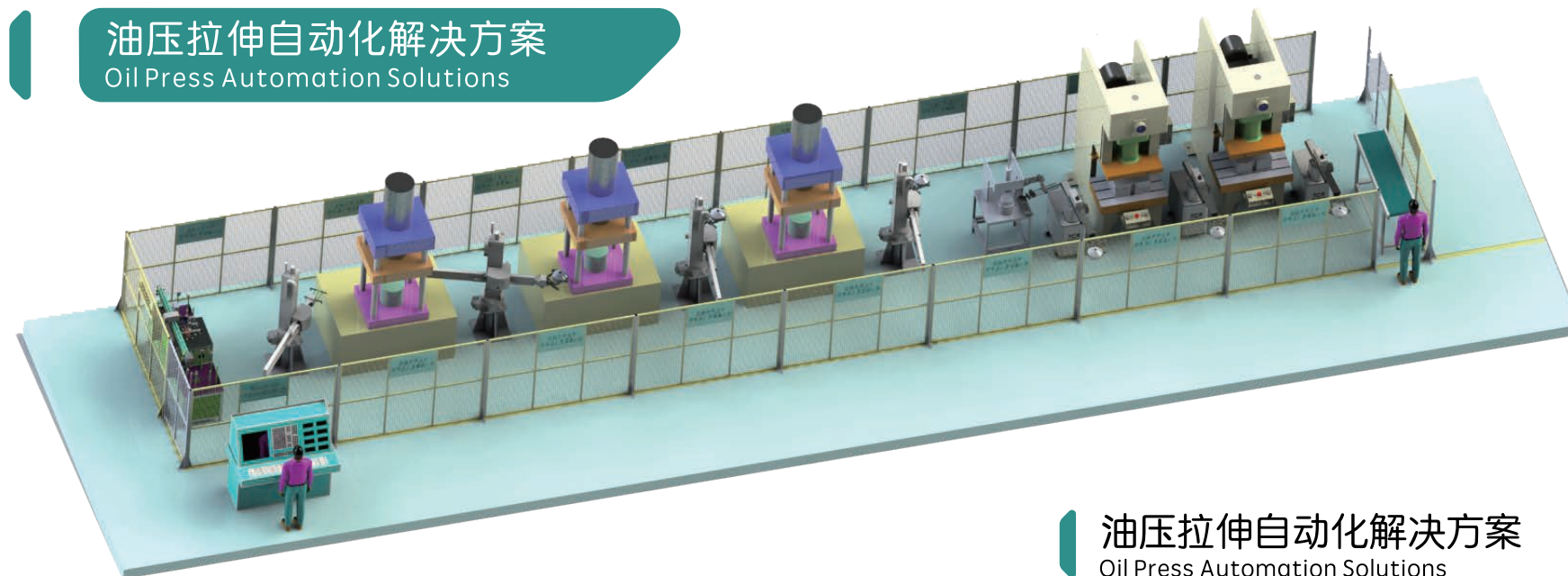


小负载关节机器人自动化解决方案

Small-load Joint Robot Automation Solutions

- 功能强大、高效灵活
Powerful functions, and high-efficient, flexibility
- 可与冲床同步工作，节省能源并提高效率
Able to synchronize with punch process to save energy and increase efficiency
- 六轴机器人生产柔性极佳，可适应各类工艺生产
6-axis robot capable of excellent manufacturing flexibility and suitable for various production processes
- 是当前汽车行业和OA钣金件生产的最佳选择
The best choice for the current automobile industry and the production of OA sheet metal parts

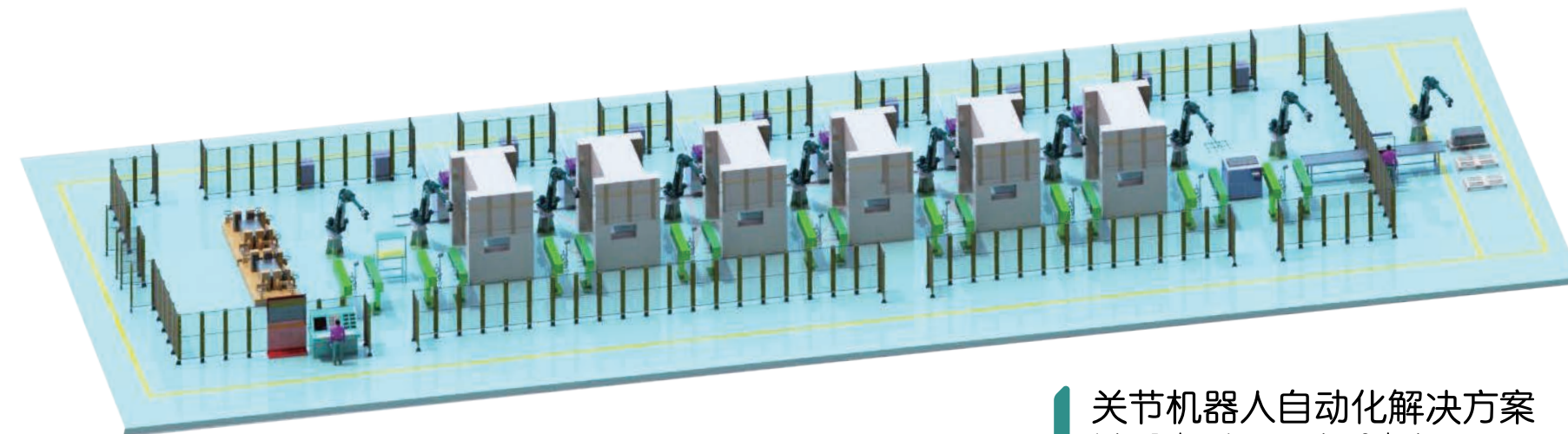
油压拉伸自动化解决方案 Oil Press Automation Solutions



油压拉伸自动化解决方案
Oil Press Automation Solutions

- 专为油压工艺定制设计
Customized design exclusively for oil press process
- 适合油压拉伸涂油工艺
Suitable for hydraulic stretch oil-coating technique
- 兼容油压机大小吨位连线生产
Compatible with large- and small- tonnage oil press inline production
- 产品灵活性强、性价比高
High product flexibility and, cost-effectiveness

大型冲床冲压自动化解决方案 Large-scale Punch and Stamping Automation Solutions



关节机器人自动化解决方案
Joint Robot Automation Solutions

- 功能强大、高效灵活
Powerful functions, and high-efficient, flexibility
- 可与冲床同步工作，节省能源并提高效率
Able to synchronize with punch process to save energy and increase efficiency
- 六轴机器人生产柔性极佳，可适应各类工艺生产
6-axis robot capable of excellent manufacturing flexibility and suitable for various production processes
- 是当前汽车行业和大型钣金件生产的最佳选择
Best choice for current auto industry and large-scale sheet metal production

标准型冲压机械手系列

Standard Stamping Manipulator Series

TCR ROBOT FAMILY



型号: TPS5-4

型号: TPS5-5

型号/Model

	控制轴数 Number of Controlled Axis
	机身颜色 Body Color
	最大负载能力 Maximum Load Capacity
	重复定位精度 Repeat Accuracy
	最大工作半径 Maximum Working Radius
	最低取料位置 Lowest Reclaiming Position
	整机最大功率 Maximum Power of Entire Machine
	整机重量 Weight of Entire Machine
运动 行程 Motion Stroke	Z(升降)轴 Z (lifting) axis
	R(摆臂)轴 R (swinging) axis
	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis
	Z(升降)轴 Z (lifting) axis
最大运 动速度 Maximum Motion Speed	R(摆臂)轴 R (swinging) axis
	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis
	Z(升降)轴 Z (lifting) axis
	R(摆臂)轴 R (swinging) axis

TPS5-4

四轴 Four axis

白色 White
5kg
0.2mm
1250mm
980mm
2300W
300kg
350mm
±135°
450mm
±180°
—
0.94m/s
231° /s
1m/s
514° /s
—

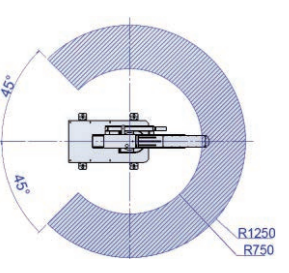
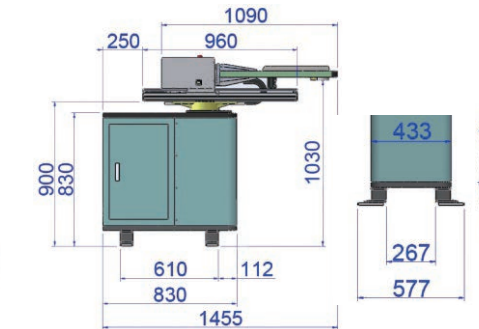
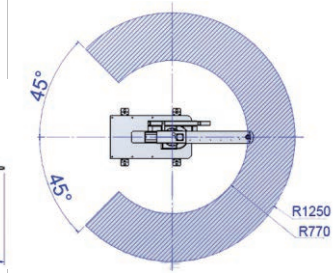
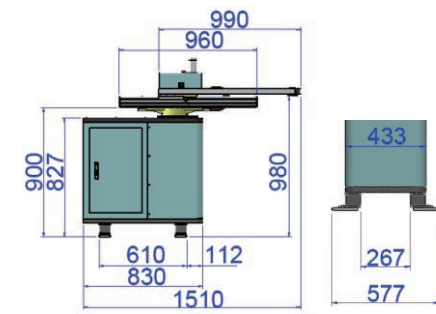
TPS5-5

五轴 Five axis

白色 White
5kg
0.2mm
1250mm
1030mm
2400W
300kg
350mm
±135°
450mm
±180°
-90°~180°
0.94m/s
231° /s
1m/s
360° /s
225° /s

设备尺寸图
Drawings of Equipment
Dimensions

动作范围
Motion Range





高精版冲压机械手系列

High-precision Stamping Manipulator Series

TCR ROBOT FAMILY



型号: TPH5-4

型号: TPH5-5

型号/Model

运动行程 Motion Stroke	控制轴数 Number of Controlled Axis
	机身颜色 Body Color
	最大负载能力 Maximum Load Capacity
	重复定位精度 Repeat Accuracy
	最大工作半径 Maximum Working Radius
	最低取料位置 Lowest Reclaiming Position
	整机最大功率 Maximum Power of Entire Machine
	整机重量 Weight of Entire Machine
	Z(升降)轴 Z (lifting) axis
	R(摆臂)轴 R (swinging) axis
最大运动速度 Maximum Motion Speed	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis
	Z(升降)轴 Z (lifting) axis
	R(摆臂)轴 R (swinging) axis
	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis

TPH5-4

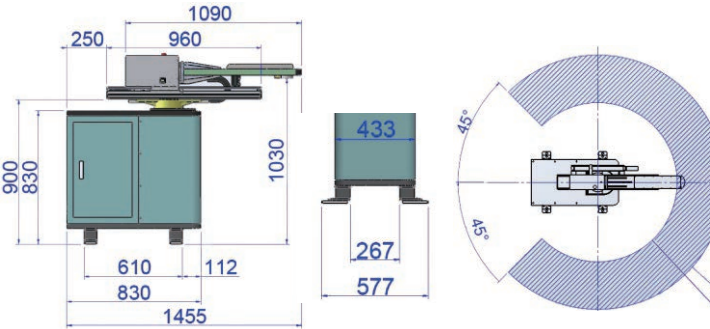
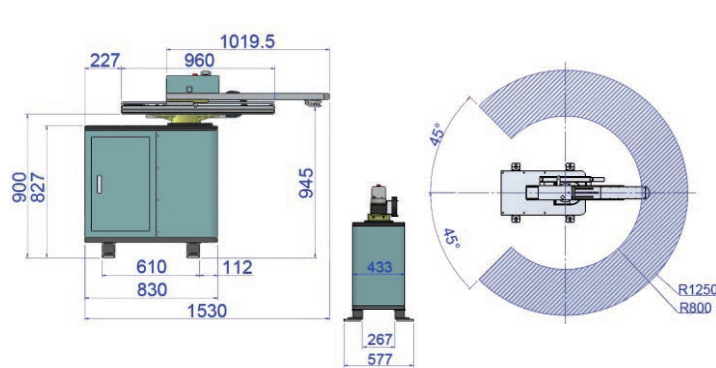
四轴 Four axis
白色 White
5kg
0.05mm
1250mm
940mm
2300W
300kg
350mm
±135°
450mm
±180°
—
1m/s
300° /s
1.3m/s
580° /s
—

TPH5-5

五轴 Five axis
白色 White
5kg
0.05mm
1250mm
1030mm
2400W
300kg
350mm
±135°
450mm
±180°
±135°
1m/s
300° /s
1.3m/s
580° /s
360° /s

设备尺寸图
Drawings of Equipment Dimensions

动作范围
Motion Range





大负载冲压机械手系列

Heavy-duty Stamping Manipulator Series

TCR ROBOT FAMILY



型号: TPH15-4

型号: TPH15-5

型号/Model

	控制轴数 Number of Controlled Axis
	机身颜色 Body Color
	最大负载能力 Maximum Load Capacity
	重复定位精度 Repeat Accuracy
	最大工作半径 Maximum Working Radius
	最低取料位置 Lowest Reclaiming Position
	整机最大功率 Maximum Power of Entire Machine
	整机重量 Weight of Entire Machine
运动行程 Motion Stroke	Z(升降)轴 Z (lifting) axis
	R(摆臂)轴 R (swinging) axis
	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis
	Z(升降)轴 Z (lifting) axis
最大运动速度 Maximum Motion Speed	R(摆臂)轴 R (swinging) axis
	A(前后)轴 A (to-and-fro) axis
	B(旋转)轴 B (rotating) axis
	C(翻转)轴 C (overturning) axis

TPH15-4

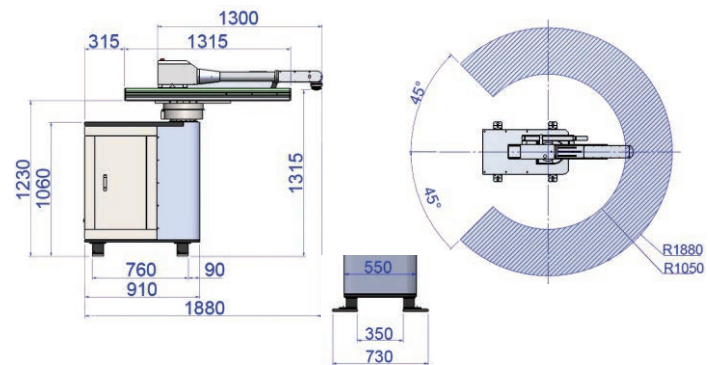
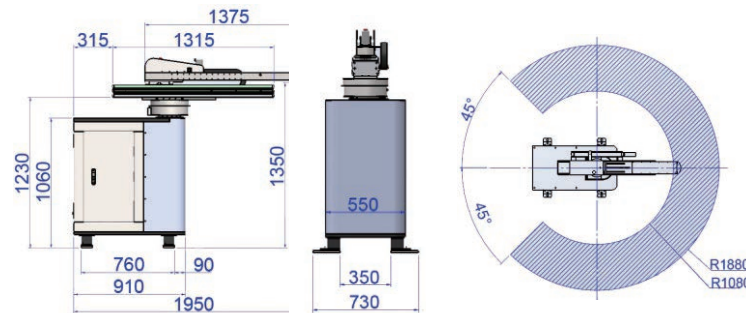
四轴 Four axis
白色 White
15kg
0.05mm
1850mm
1350mm
3150W
450kg
350mm
±135°
800mm
±180°
—
1.25m/s
150° /s
1m/s
360° /s
—

TPH15-5

五轴 Five axis
白色 White
15kg
0.05mm
1850mm
1420mm
3900W
450kg
350mm
±135°
800mm
±180°
-100° ~+190°
1.25m/s
150° /s
1m/s
360° /s
225° /s

设备尺寸图
Drawings of Equipment Dimensions

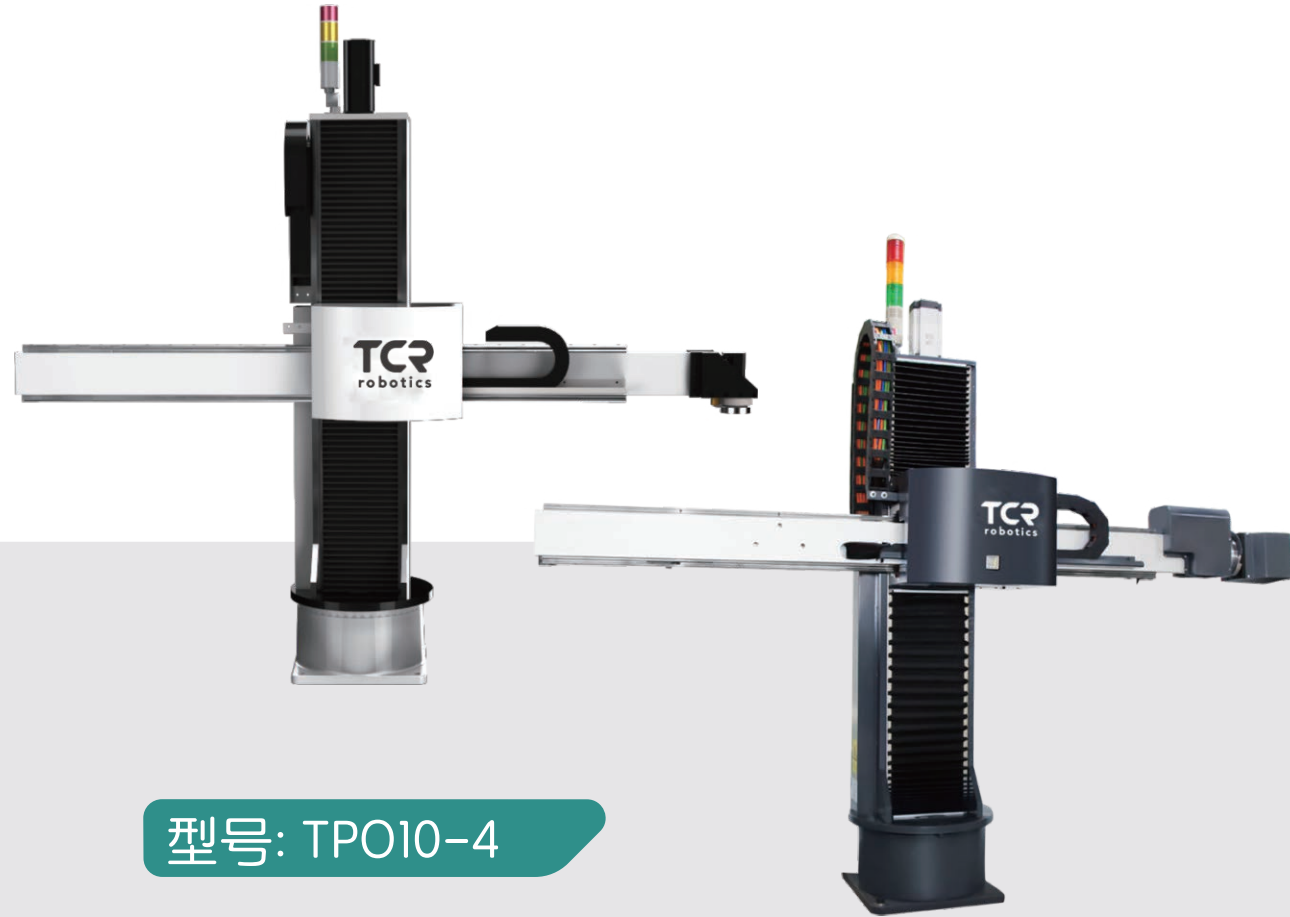
动作范围
Motion Range



油压机械手系列

Oil Press Manipulator Series

TCR ROBOT FAMILY



型号: TPO10-4

型号: TPO10-5

型号/Model

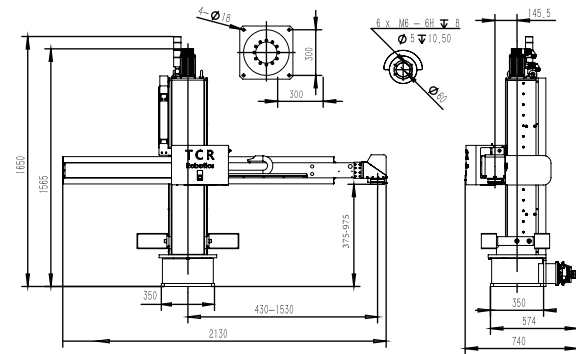
安装方式 Installation Method	
设备外形尺寸 (不含机柜) Equipment Outer Dimensions (excluding equipment cabinet)	
本体重量 (不含线缆) Machine weight (excluding cables)	
输出法兰最低高度 Lowest Height of Output Flange	
整机最大功率 Maximum Power of Entire Machine	
重复定位精度 Repeat Accuracy	
最大运动速度 Maximum Motion Speed	第一轴 (摆臂) First axis (swinging)
	第二轴 (升降) Second axis (lifting)
	第三轴 (前后) Third axis (to-and-fro)
	第四轴 (旋转) Fourth axis (rotating)
	第五轴 (翻转) Fourth axis (rotating)
运动范围 Motion Range	第一轴 (摆臂) First axis (swinging)
	第二轴 (升降) Second axis (lifting)
	第三轴 (前后) Third axis (to-and-fro)
	第四轴 (旋转) Fourth axis (rotating)
	第五轴 (翻转) Fourth axis (rotating)
负载 Load	
电源 Power source	
气源 Gas Source	
原点复位 Origin Resetting	

设备尺寸图
Drawings of Equipment Dimensions

动作范围
Motion Range

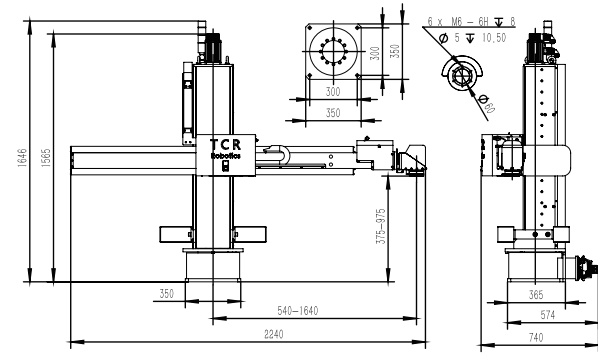
TPO10-4

置于地面 / 地脚连接 Placed on the ground/floor anchor connection	
740*2130*1565mm	
240kg	
375mm	
3.15kW	
±0.05mm	
180° /s	
1000mm/s	
800 mm/s	
360° /s	
—	
±160°	
375~975mm	
430~1530mm	
±180°	
—	
10kg	
AC220V/50Hz	
0.4~0.6MPa, 管径 φ6 0.4~0.6 MPa, pipe diameter φ 6 mm	
开机/急停/报警后需原点复位 Origin resetting needed after booting/scramming/warming	



TPO10-5

置于地面 / 地脚连接 Placed on the ground/floor anchor connection	
740*2300*1565mm	
250kg	
375mm	
3.55kW	
±0.05mm	
180° /s	
1000mm/s	
800 mm/s	
240° /s	
360° /s	
±160°	
375~975mm	
540~1640mm	
-45° ~+220°	
±180°	
10kg	
AC220V/50Hz	
0.4~0.6MPa, 管径 φ6 0.4~0.6 MPa, pipe diameter φ 6 mm	
开机/急停/报警后需原点复位 Origin resetting needed after booting/scramming/warming	





涂油机系列

Oil Paint Machine Series

TCR ROBOT FAMILY



型号: TPOM-1



型号: TPOM-2

型号/Model

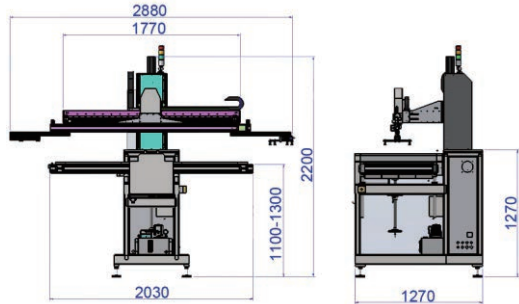
安装方式	安装方式
	Installation Method
适用物料尺寸	适用物料尺寸
	Applicable Material Dimensions
设备外形尺寸	设备外形尺寸
	Equipment Outer Dimensions
本体重量 (不含线缆)	本体重量 (不含线缆)
	Machine Weight (excluding cables)
皮带最大速度	皮带最大速度
	Highest Belt Speed
滚油平台最低高度	滚油平台最低高度
	Lowest Height of Oil Roller Platform
吸盘最低工作高度	吸盘最低工作高度
	Lowest Operational Height of Sucking Disc
设计运行周期	设计运行周期
	Designed Motion Cycle
电机功耗	第一轴 (升降)
	First axis (lifting)
	第二轴 (平移)
	Second axis translating)
重复定位精度	输送及滚油
	Delivery and oil rolling
最大运动速度	第一轴 (升降)
	First axis (lifting)
运动范围	第二轴 (平移)
	Second axis translating)
	第一轴 (升降)
	First axis (lifting)
	第二轴 (平移)
	Second axis translating)
	输送及滚油
	Delivery and oil rolling
负载	负载
	Load
电源	电源
	Power Source
气源	气源
	Gas Source
原点复位	原点复位
	Origin Resetting

设备尺寸图
Drawings of Equipment
Dimensions

动作范围
Motion Range

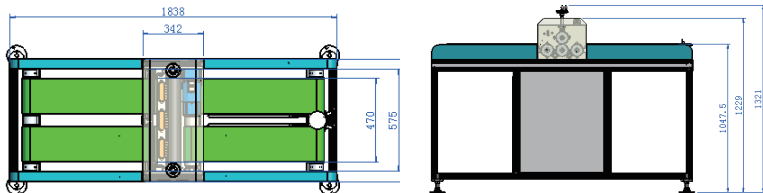
TPOM-1

置于地面 / 地脚连接	
Placed on the ground/floor anchor connection	
Φ350~Φ650mm	
1270*2880*2200mm	
480kg	
320mm/s	
1100mm	
1100mm	
9s	
750W	
400W	
400W	
±0.05mm	
±0.05mm	
500mm/s	
625mm/s	
400mm	
±750mm	
200mm	
5kg	
AC220V/50Hz	
0.4~0.6MPa, 管径Φ6mm 0.4~0.6 MPa, pipe diameter Φ6mm	
开机/急停/报警后需原点复位	
Origin resetting needed after booting/scramming/warming	



TPOM-2

置于地面 / 地脚连接	
Placed on the ground/floor anchor connection	
Φ100~Φ500mm	
1838*690*1320mm	
300kg	
320mm/s	
1100mm	
1100mm	
5s	
—	
—	
400W	
±0.05mm	
±0.05mm	
500mm/s	
625mm/s	
400mm	
±750mm	
200mm	
5kg	
AC220V/50Hz	
0.4~0.6MPa, 管径Φ6mm 0.4~0.6 MPa, pipe diameter Φ6mm	
开机/急停/报警后需原点复位	
Origin resetting needed after booting/scramming/warming	

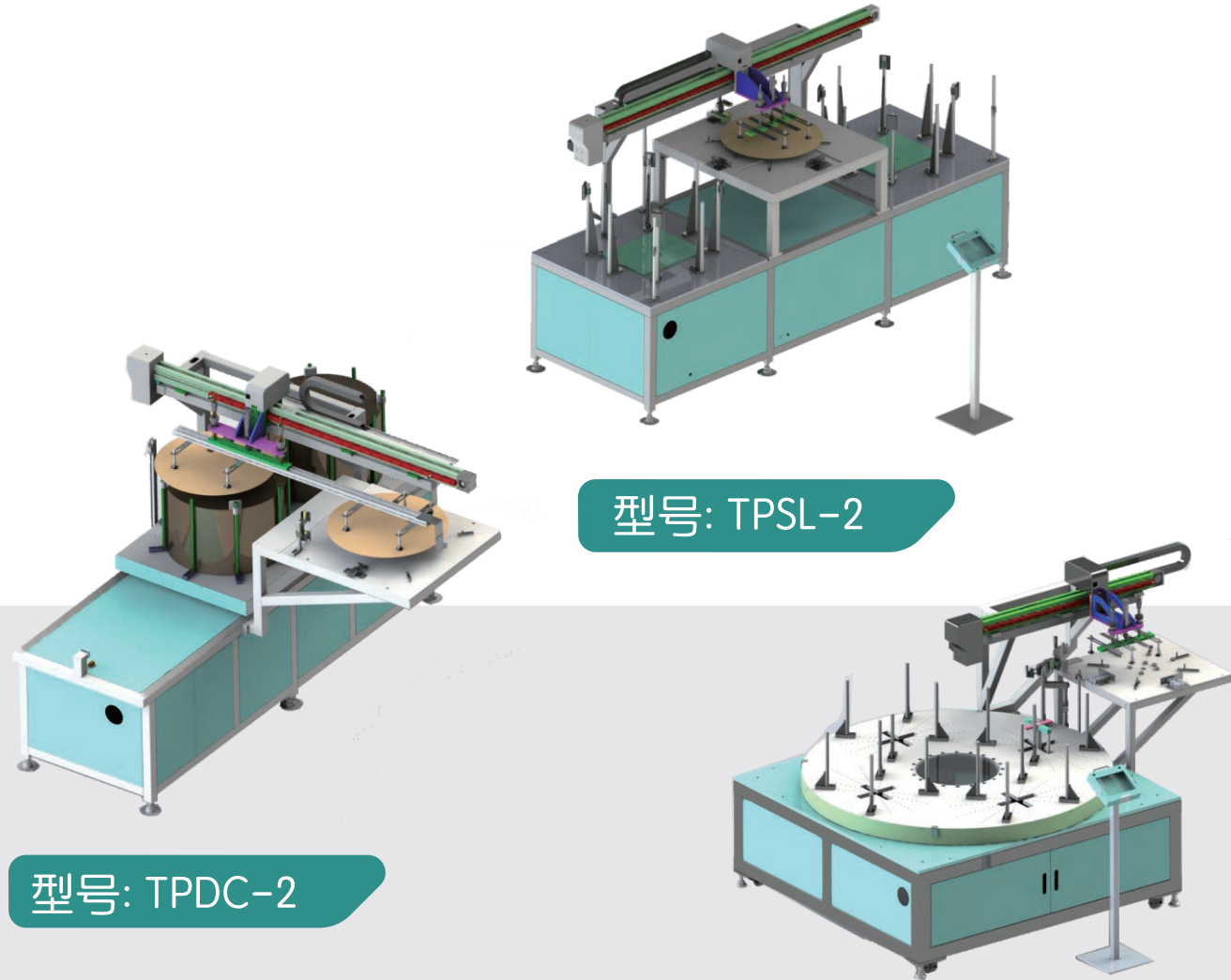




上料机系列

Feeding Machine Series

TCR ROBOT FAMILY



型号: TPDC-2

型号: TPSL-2

型号: TPSL-4

型号/Model

类型
Category

设备外形尺寸
Equipment Outer Dimensions

本体重量
Main Body Weight

适用物料尺寸
Applicable Material Dimensions (square materials)

上料工位数量
Number of Loading Stations

料堆最大高度
Maximum Piling Height

机械手取料高度
Reaching Height of Manipulator

平均换料周期
Average Cycle of Material Changing

上料材质及厚度
Quality and Thickness of Loaded Material

分料原理
Material Distributing Principle

双张检测
Double Sheet Detection

升降系统类型
Lifting Type

额定功率
Rated Power

电源
Power Source

控制系统
Control System

安装方式
Installation Method

TPDC-2

单冲机械手
Single-punch Manipulator

2530*2035*1725mm

450kg

280-600mm

2

380mm

1150mm

60分钟（按照料厚0.5mm计算）
60 minutes (calculated according to 0.5mm material thickness)

钢、铝材质，厚度0.2~5mm
Steel, aluminum, with thickness of 0.2-5mm

弹簧拨片、磁力分张
Spring toggle, magnetic separator

双张检测开关（选配）
Double sheet detection switch (optional)

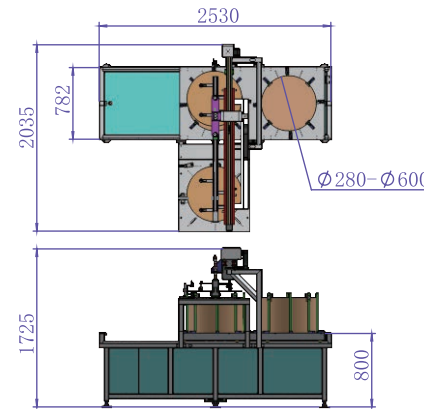
油压系统
Oil Pressure System

1500W

三相380V/50Hz
Three phase 380V/50 Hz

PLC

置于地面 / 可调地脚连接
Placed on the ground/ adjustable floor anchor connection



设备尺寸图
Drawings of Equipment
Dimensions

动作范围
Motion Range

TPSL-2

双工位上料机
Double-station Feeding Machine

2750*1090*1600mm

400kg

150-700mm

2

380mm

1100mm

60分钟（按照料厚0.5mm计算）
60 minutes (calculated according to 0.5mm material thickness)

钢、铝材质，厚度0.2~5mm
Steel, aluminum, with thickness of 0.2-5mm

弹簧拨片、磁力分张
Spring toggle, magnetic separator

双张检测开关（选配）
Double sheet detection switch (optional)

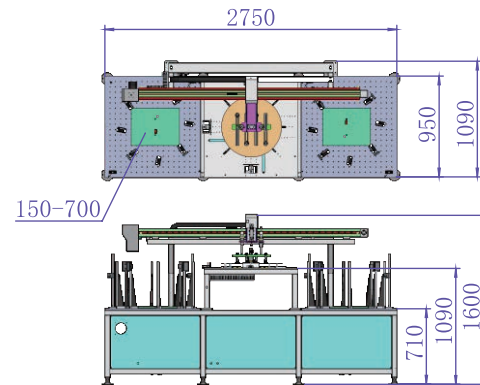
油压系统
Oil Pressure System

1500W

三相380V/50Hz
Three phase 380V/50 Hz

PLC

置于地面 / 可调地脚连接
Placed on the ground/ adjustable floor anchor connection



TPSL-4

四工位上料机
Four-station Feeding Machine

2500*1700*1550mm

1300kg

200-500mm

4

300mm

1040mm

100分钟（按照料厚1mm计算）
100 minutes (calculated according to 1mm material thickness)

钢、铝材质，厚度0.2~5mm
Steel, aluminum, with thickness of 0.2-5mm

弹簧拨片、磁力分张
Spring toggle, magnetic separator

双张检测开关（选配）
Double sheet detection switch (optional)

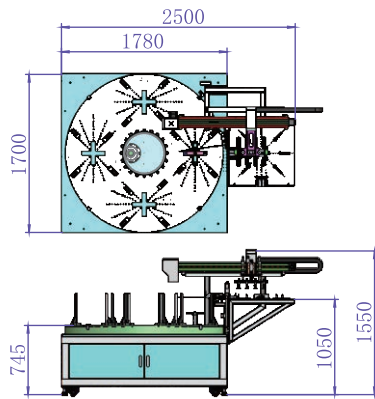
丝杆升降机
Screw lifter

1500W

三相380V/50Hz
Three phase 380V/50 Hz

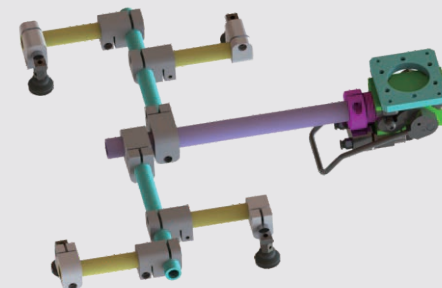
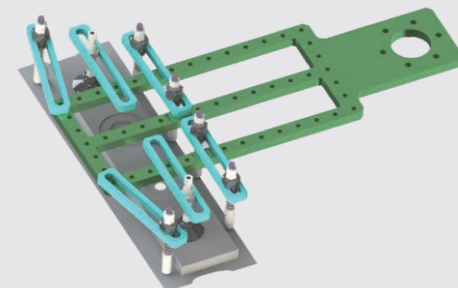
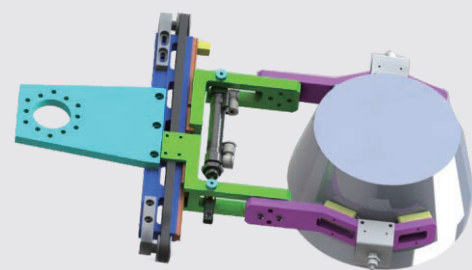
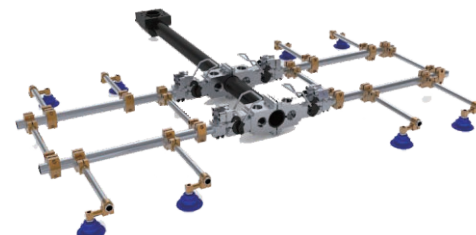
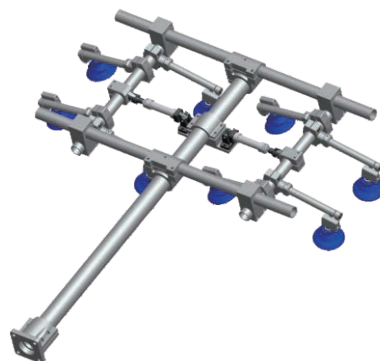
PLC

置于地面 / 可调地脚连接
Placed on the ground/ adjustable floor anchor connection



端拾器系列

Tooling Series



同川愿景 Vision of TCR Robotics

- 做中国最优秀的工业机器人厂家
To become the best industrial robot manufacturer in China

同川核心价值观 Core Values of TCR Robotics

- 以包容、博大、互利的原则凝聚人才；
Gathering talents in the principle of inclusiveness, broadness and mutual benefits
- 以创新、精益、考究的态度领导变革；
Leading revolution in terms of innovation, precision and scrunity
- 以主动、负责、完善的机制成就客户。
Satisfying customers through the mechanisms of proactiveness, responsibility and completion

同川使命 Mission of TCR Robotics

- 让工作更加智能，使人类更具智慧
Makeing work smarter and people wiser

公司发展方向 Direction of Company Development

- 多轴运动控制系统
Multi- axes motion control systems
- 高性能伺服驱动与电机
High performance servo drive and motor
- 工业机器人整机及集成应用
Whole-unit and integrated applications of industrial robots
- 机器视觉、激光、雷达、压力等传感技术
Sensor technology of robotic vision, laser, radar, and pressure, and so on
- 无人驾驶控制技术
Unmanned driving control technology
- 电机汽车电池、驱动、电机等
Electric car battery, drive, motor, etc
- 绿色能源
Green energy