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t.TLR 系列直线坐标机械手.202412.05

tederic 泰瑞
SMART INJECTION

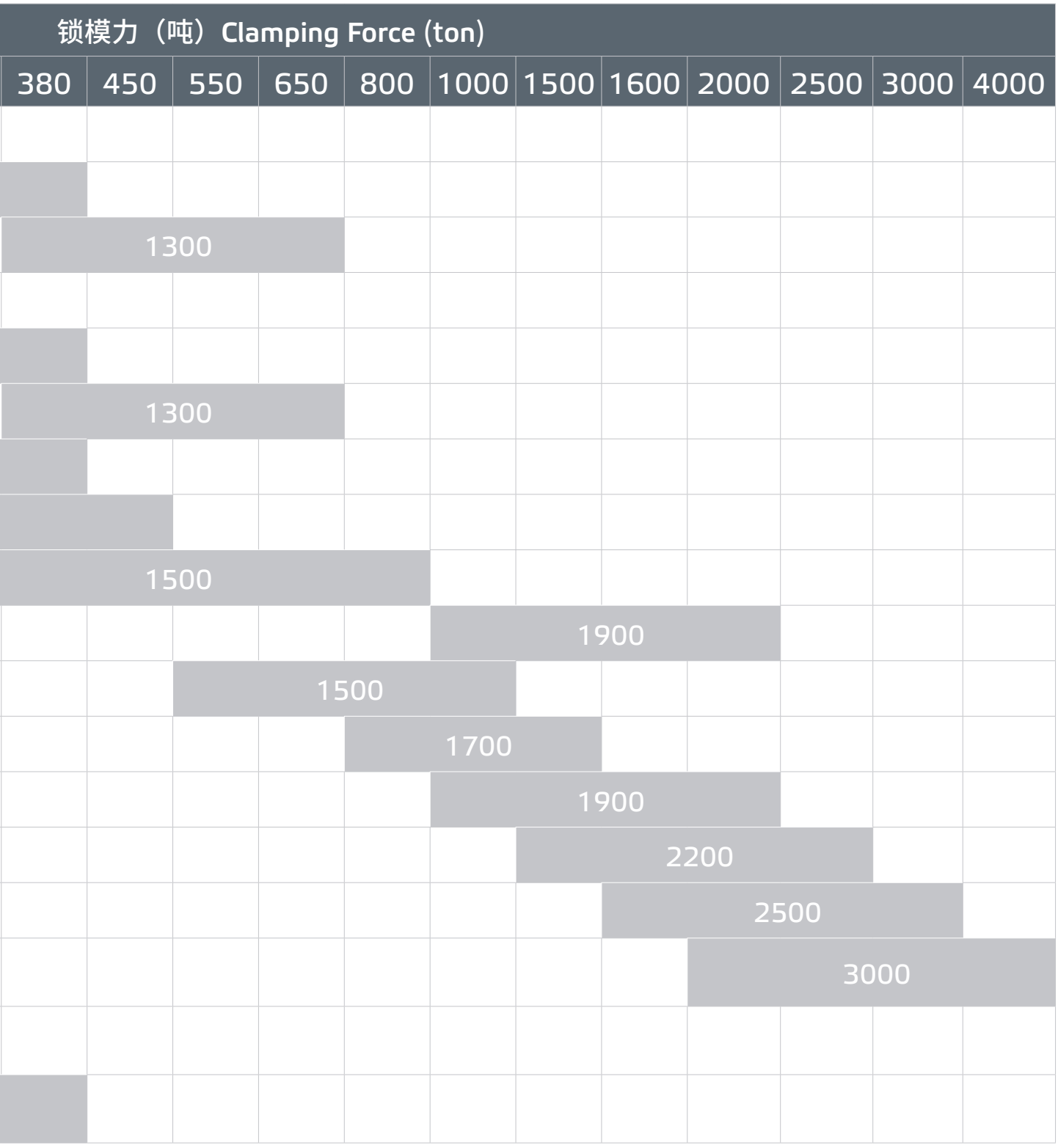


TLR 系列直线坐标机械手

TLR Series Linear Robot

Selection Guide of Manipilator 亮点和规格

型号系列 Series			80	120	200	250	300	350
横走式机械手 Horizontal walking robot		TLR05-800SII	800					
		TLR05-1000SII			1000			
		TLR05-1300SII						
		TLR05-800SII	800					
		TLR05-1000SII			1000			
		TLR05-1300SII						
		TLR03-1100II-H			1100			
		TLR05-1300II-H				1300		
		TLR12-1500II						
		TLR25-1900II						
		TLR25-1500II						
		TLR25-1700II						
		TLR40-1900II						
		TLR50-2200II						
		TLR50-2500II						
		TLR50-3000II						
纵走式机械手 Vertical walking robot		TLR05-1000SII		1000				
		TLR08-1300SII				1300		


锁模力（吨）Clamping Force (ton)
380
450
550
650
800
1000
1500
1600
2000
2500
3000
4000
1300
1300
1500
1900
1500
1700
1900
2200
2500
3000

TLR

全开放式模块化设计 Fully open modular design

全开放式简洁布局及模块化设计便于维护，正反向安装变更更加方便，治具采用便挂式组装，更具人性化处理，真空负压值在线实时监测。

The fully open, simple layout and modular design make maintenance easier. The forward and reverse installation changes are more convenient. The fixture is assembled in a hanging style, which is more user-friendly. The vacuum negative pressure value is monitored online in real time.

AC 全伺服 AC full servo

AC 全伺服闭环式控制，教导式和自由编程式使操作更加便利，触摸屏操作界面为多语种菜单式。

AC full servo closed-loop control, teaching and free programming make operation more convenient, and the touch screen operation interface is multi-language menu-based.



铝合金型材结构设计 Structural design of aluminum alloy profiles

铝型材一体化成型工艺

Aluminum profile integrated forming process.

The most economic and suitable manipulator,ready for you

Side Mounted Three AXIS Servo Robot 侧挂单臂双截机械手

双截臂设计 Double-Section design

三轴侧挂单臂双截机械手通过双截臂设计，实现多工位同时操作，有效缩短工序转换时间，提升生产效率。同时具备灵活的工件抓取功能，适用于多种生产场景。

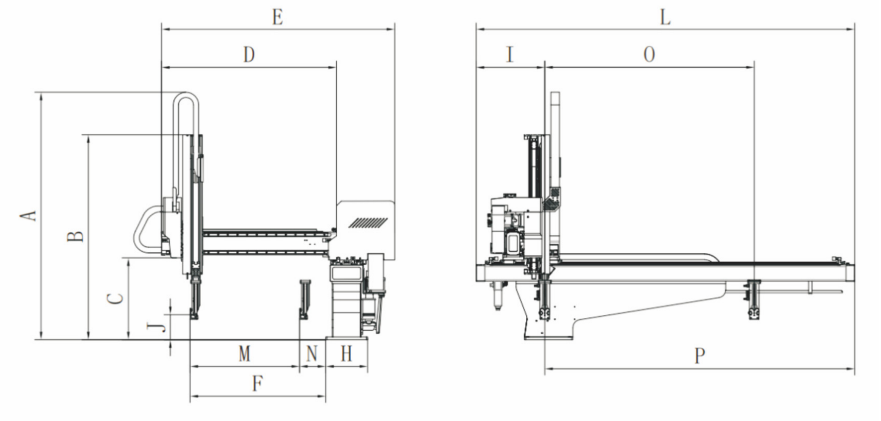
The three-axis side-mounted single-arm double-section robot realizes simultaneous operation of multiple stations through the double-section arm design, effectively shortening the process conversion time and improving production efficiency. At the same time, it has a flexible workpiece grasping function and is suitable for a variety of production scenarios.

稳定产品质量 Stabilizes product quality

提高生产效率 Improves production efficiency

降低废品率 Reduces scrap rate

降低生产成本 Reduces production cost



产品参数 Product parameters

机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR05-800II	80~200	800	740	1300	90	5	1.4	6	5~7	2	2	244
TLR05-1000II	200~380	1000	740	1600	90	5	1.8	7	5~7	2	2	280
TLR05-1300II	380~650	1300	985	1800	90	5	2.2	8	5~7	2	2	309

机型	A	B	C	D	E	F	H	I	J	L	M	N	O	P
TLR05-800SII	1410	1210	525	1035	1450	835	260	426	水平140 垂直155	2047	740	110	1300	1621
TLR05-1000SII	1530	1340	525	1035	1450	835	260	426	水平140 垂直155	2347	740	110	1600	1921
TLR08-1300SII	1780	1500	570	1276	1690	1095	260	426	水平115 垂直130	2545	985	110	1800	2119

TLR

多功能模块化设计 Multifunctional modular design

每个模块均可独立拆卸与更换，用户可根据实际需求配置不同功能模块，适应各种不同工艺需求。双臂结构设计实现了同时抓取、操作多个工件的功能，极大提高了生产效率。

Each module can be disassembled and replaced independently. Users can configure different functional modules according to actual needs to adapt to various process requirements. The double-arm structure design enables the function of grabbing and operating multiple workpieces at the same time, greatly improving production efficiency.

双臂拖链快速下置设计

Double-arm drag chain quick drop design

在厂房高度受限的情况下，通过主副臂配件的互换与方向调转，实现拖链的快速下置。该设计允许在现场直接进行调整，无需额外的设备或工具，简化了操作流程。

In cases where the factory height is limited, the quick lowering of the drag chain can be achieved by interchanging and adjusting the direction of the main and auxiliary arms. This design allows on-site adjustments without the need for additional equipment or tools, simplifying the operation process.



高强度轻量化结构设计

High-strength lightweight structure design

采用高强度轻量化材料，既保证了结构强度，又减少了设备的整体重量，从而提高了运动效率和能耗效率。五轴结构设计提升了机械手的灵活性和精准度，使其在复杂操作中表现更加出色。

The use of high-strength and lightweight materials not only ensures structural strength, but also reduces the overall weight of the equipment, thereby improving movement efficiency and energy efficiency. The five-axis structural design improves the flexibility and precision of the manipulator, making it perform better in complex operations.

Side Mounted Five AXIS Servo Robot 侧挂双臂双截机械手

上下行伺服 Up/down servo

采用上下伺服与横行伺服同步到达弧线运动，结合模内下行待机等功能，生产周期短，同时具备三轴简易码垛等特点。

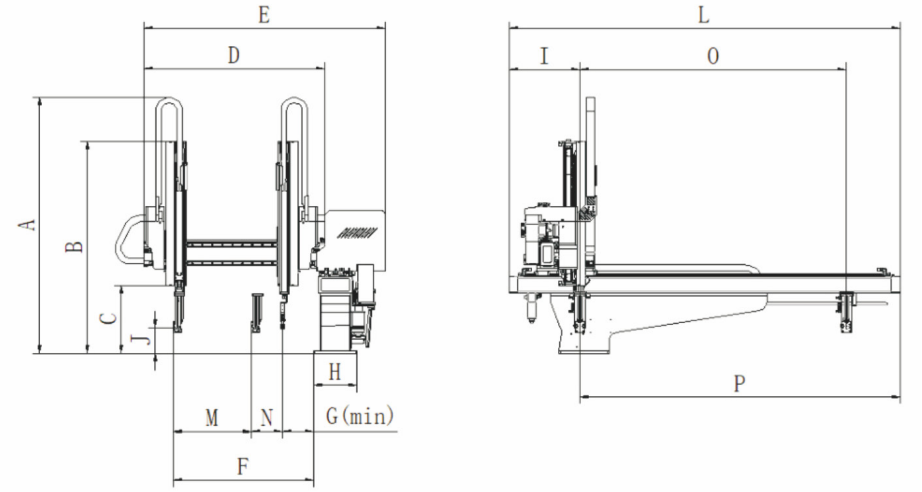
By utilizing synchronized arc motion with the vertical and horizontal servos, along with features like in-mold descending standby, the production cycle is shortened. It also has the features of three-axis simple palletizing.

缩短生产周期
Shortens production cycle

减少设备维护
Reduces equipment maintenance

数据追踪和分析
Data tracking & analysis

环保节能
Environmental protection & energy conservation



产品参数 Product parameters

机型	适用 (t) 注塑机	上下行程 (mm)	引拔行程 (mm)	横行行程 (mm)	侧姿角度 (°)	最大荷重 (kg)	取出时间 (s)	空循环时间 (s)	工作气压 (kgf/cm³)	空气消耗量 (nl/cucle)	电源消耗量 (kva)	净重 (kg)
TLR05-800SII	80~200	800	P:500 R:500	1300	90	5	1.4	6	5~7	2.1	2.7	275
TLR05-1000SII	200~380	1000	P:500 R:500	1600	90	5	1.8	7	5~7	2.1	2.7	300
TLR08-1300SII	380~650	1300	P:740 R:740	1800	90	8	2.2	8	5~7	2.1	2.7	340

机型	A	B	C	D	E	F	G	H	I	J	L	M	N	O	P
TLR05-800SII	1410	1210	525	1035	1450	850	175	260	426	水平140 垂直155	2047	500	145	1300	1621
TLR05-1000SII	1530	1340	525	1035	1450	850	175	260	426	水平140 垂直155	2347	500	145	1600	1921
TLR08-1300SII	1780	1500	570	1276	1690	1100	175	260	426	水平115 垂直130	2545	740	145	1800	2119

Three AXIS Servo Robot

侧挂单臂双截机械手

长寿命 Long life

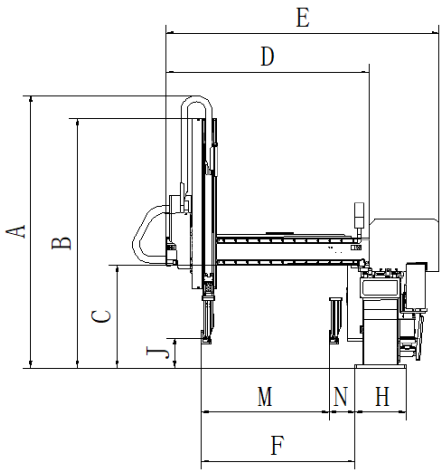
轻量化的组件，减少横行负荷，从而降低机械手的故障率。电磁阀组完全密封，可有效避免油污和灰尘侵蚀，延长机械手使用寿命。

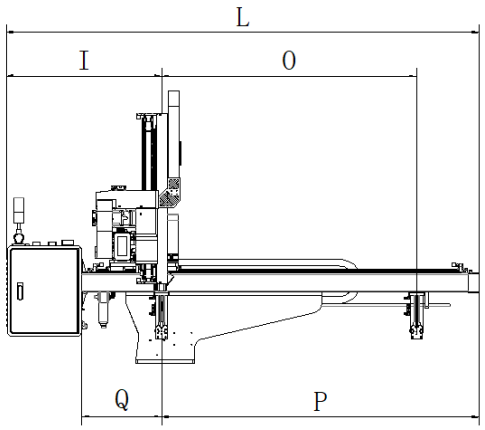
Lightweight components reduce Z-axis loads, thereby reducing the failure rate of the manipulator. The solenoid valve group is completely sealed, which can effectively prevent oil and dust erosion and extend the service life of the manipulator.

高安全性 High security

电控线路终端配线，不带空中接头，避免接头腐蚀或接触不良。手臂下段位置附带检知开关及防落装置，安全性高。

The terminal wiring of the electric control circuit does not have an aerial connector to avoid connector corrosion or poor contact. The lower part of the arm is equipped with a detection switch and an anti-fall device for high safety.





产品参数 Product parameters

机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR05-800II	80~200	800	740	1300	90	5	1.4	6	5~7	2	2	254
TLR05-1000II	200~380	1000	740	1600	90	5	1.8	7	5~7	2	2	294
TLR05-1300II	380~650	1300	985	1800	90	5	2.2	8	5~7	2	2	331

机型	A	B	C	D	E	F	H	I	J	L	M	N	O	P	Q
TLR05-800SII	1410	1210	525	1035	1450	835	260	790	水平140 垂直155	2410	740	110	1300	1621	406
TLR05-1000SII	1530	1340	525	1035	1450	835	260	792	水平140 垂直155	2710	740	110	1600	1921	406
TLR08-1300SII	1780	1500	570	1276	1690	1095	260	792	水平115 垂直130	2910	985	110	1800	2119	406

TLR

三轴精准控制 Three-axis precision control

三轴独立控制的设计使机械手运行的精度更高，在有限的空间内完关地体现其灵活与稳定的特点，同时确保机械手在各种工况下的高效作业。

The three-axis independent control design makes the robot's operation more accurate, perfectly reflecting its flexibility and stability even in a limited space, while ensuring the robot's efficient operation under various working conditions.

内置型声光报警灯

Built-in audible and visual alarm light

一体内嵌更美观，更具现代感，绿色运行，黄色待机，红色报警，运行状态清晰可见。

The integrated embedded design is more beautiful and modern, with green for operation, yellow for standby, and red for alarm, the operating status is clearly visible.



高精度传动机构

High accuracy transmission mechanism

Five AXIS Servo Robot

侧挂双臂双截机械手

多自由度
Multi-Degree-of-Freedom

灵活的五轴运动设计，提供多方位的操作能力，满足复杂工艺需求。

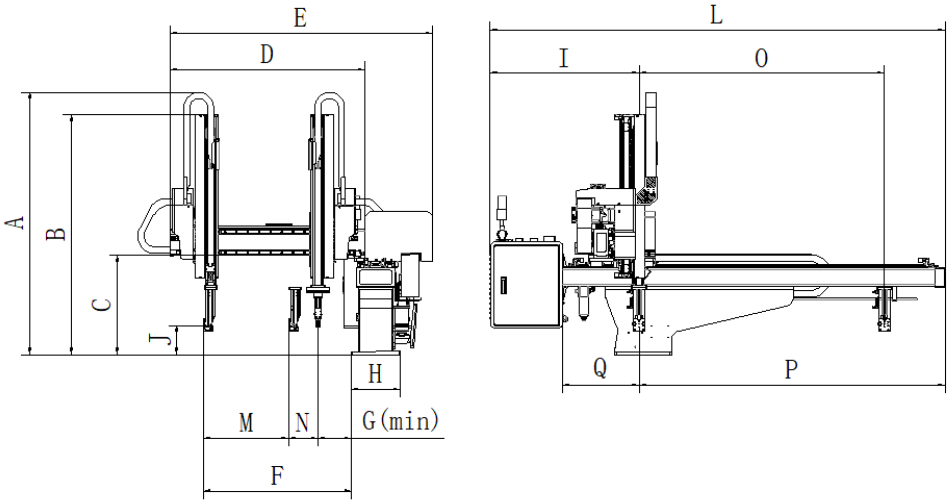
Flexible five-axis movement design, providing multi-directional operational capability to meet complex process requirements.

空间优化设计
Space-Optimized Design

低噪音
Low Noise

高精度
High Precision

低震动
Low Vibration



产品参数 Product parameters

机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR05-800SII	80~200	800	P:500 R:500	1300	90	5	1.4	6	5~7	2.1	2.7	294
TLR05-1000SII	200~380	1000	P:500 R:500	1600	90	5	1.8	7	5~7	2.1	2.7	331
TLR05-1300SII	380~650	1300	P:740 R:740	1800	90	8	2.2	8	5~7	2.1	2.7	381

机型	A	B	C	D	E	F	H	I	J	L	M	N	O	P	Q
TLR05-800SII	1410	1210	525	1035	1450	850	175	790	水平140 垂直155	2410	500	145	1300	1621	406
TLR05-1000SII	1530	1340	525	1035	1450	850	175	792	水平140 垂直155	2710	500	145	1600	1921	406
TLR08-1300SII	1780	1500	570	1276	1690	1100	175	792	水平115 垂直130	2910	740	145	1800	2119	408

TLR

数显可视化 Digital display visualization

设置方便，全程监控
Easy Setup, Full Monitoring.

双截式上下行程
Double-section vertidal stroke

双截式上下行程，采用倍速机构，速度快，适应低厂房设计。
Double-section vertical stroke,adopts a double-speed mechanism with high speed,which is suitable for low factory building design.



对称式单边设计
Symmetrical single-sided design

极小双臂间隙，稳固支持更小的中板。
Minimum arm gap, stable support for smaller mid-panels.

TLR

高刚性单臂结构 High rigidity single-arm structure

采用高刚性单臂设计，确保在高速运转时仍能保持设备的稳定性和精度。单臂结构不仅减轻了设备重量，还优化了运动路径，实现了更高效的操作。

The high-rigidity single-arm design ensures that the equipment can maintain stability and precision even at high speeds. The single-arm structure not only reduces the weight of the equipment, but also optimizes the motion path for more efficient operation.

双截高速运动（最快取物时间 0.75s, 空循环时间 3.58s）

Double-section high-speed motion

双截设计使得设备能够实现快速的取件和放件操作，减少了整体循环时间。高速伺服系统结合精密控制，确保每个动作的高效与准确，从而提升生产效率。

The double-section design enables the equipment to achieve fast pick-up and place-down operations, reducing the overall cycle time. The high-speed servo system combined with precision control ensures the efficiency and accuracy of each action, thereby improving production efficiency.



加大型横拱截面设计

Enlarged Horizontal Arch Section Design

横拱截面加大，显著提升结构刚性和抗变形能力，有效减少振动，确保高速运行时的稳定性和精度，适用于要求高强度和高稳定性的应用场景。

The enlarged horizontal arch section significantly enhances structural rigidity and deformation resistance, effectively reducing vibrations. This ensures stability and precision during high-speed operations, making it ideal for applications requiring high strength and stability.

Three AXIS Servo Robot

侧挂单臂双截机械手

高精度传动机构
High accuracy transmission mechanism

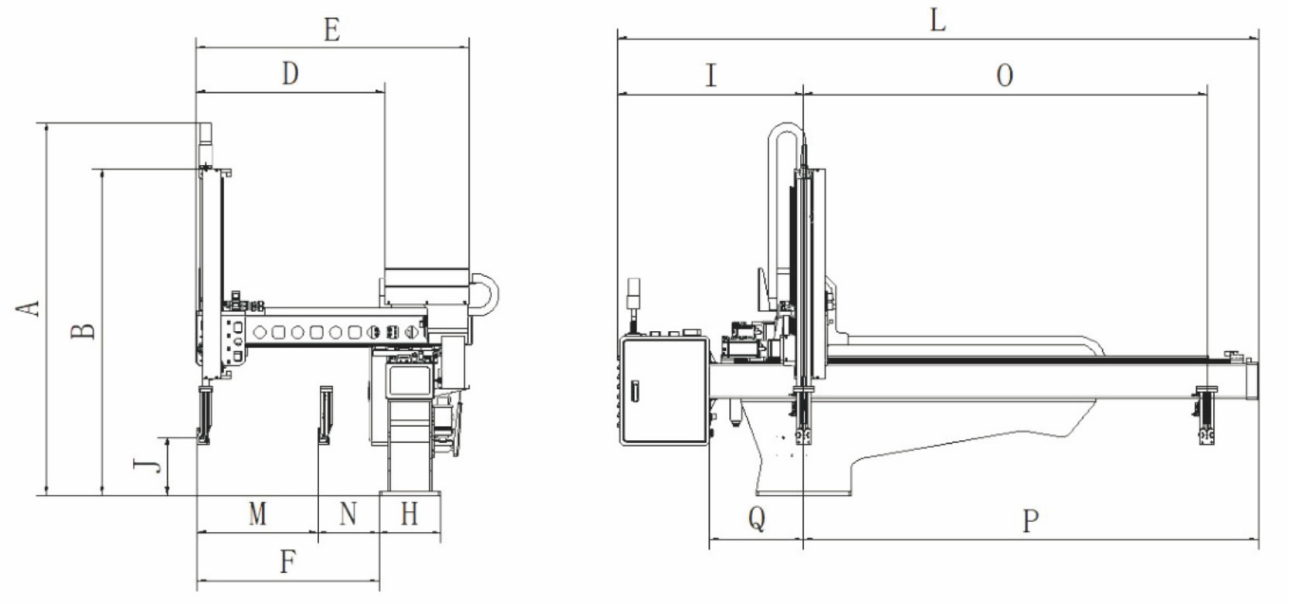
高精度滑轨配合精密齿轮传动机构以实现低震动高速运动，确保机构低噪音超高速等特点。

High-precision linear guides with precision gear transmission mechanisms achieve low vibration and high-speed motion, ensuring low noise and ultra-high-speed performance.

全开放式模块化设计
Fully open modular design

全开放式简介布局及模块化设计便于维护，正反向安装变更更加方便，治具采用便挂式组装，根据人性化处理。

The fully open layout and modular design facilitate maintenance, and the forward and reverse installation changes are more convenient. The fixture adopts a hanging assembly style, which is humanized.



产品参数 Product parameters

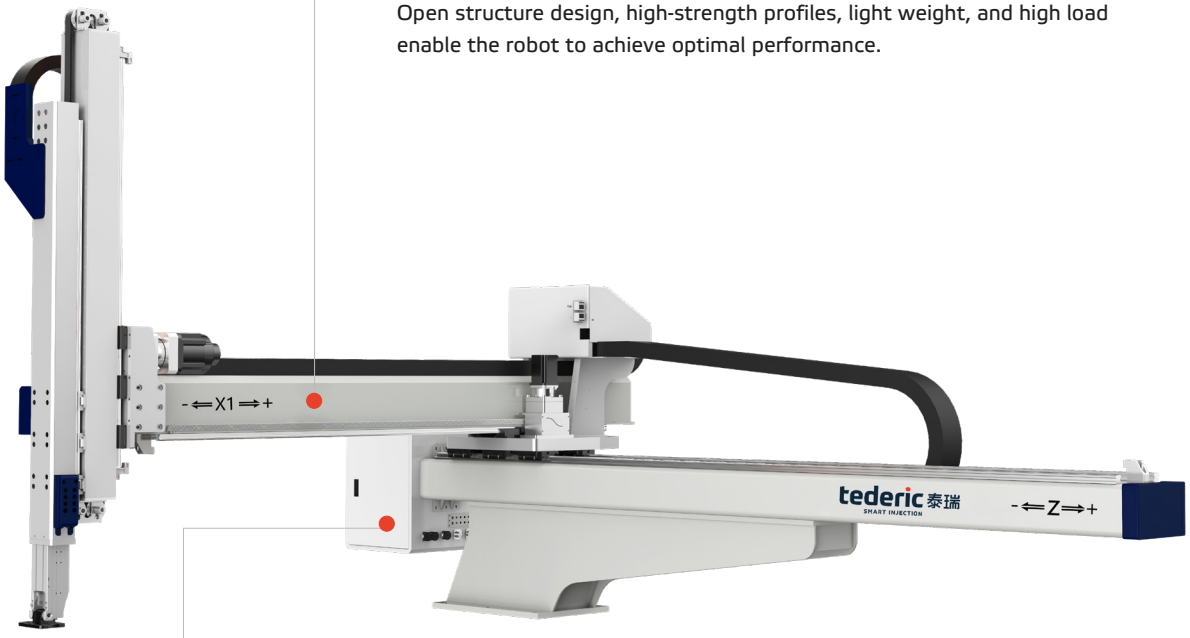
机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR03-1100II-H	200~380	1100	500	1600	90	3	0.75	3.58	5~7	2	1.9	319
TLR05-1300II-H	250~450	1300	700	1800	90	5	1.1	5.85	5~7	2	2.4	360

机型	A	B	D	E	F	H	I	J	L	M	N	O	P	Q
TLR03-1100II-H	1610	1482	796	1150	712	260	781	水平225 垂直245	2700	500	202	1600	1911	401
TLR05-1300II-H	1700	1565	1010	1595	1048	260	774	水平225 垂直245	2890	700	318	1800	2118	395

TLR

开放式结构 Open structure

开放式结构设计，高强度型材，轻质量，高负载，使机械手达到最优性能。
Open structure design, high-strength profiles, light weight, and high load enable the robot to achieve optimal performance.



全开放式模块化设计

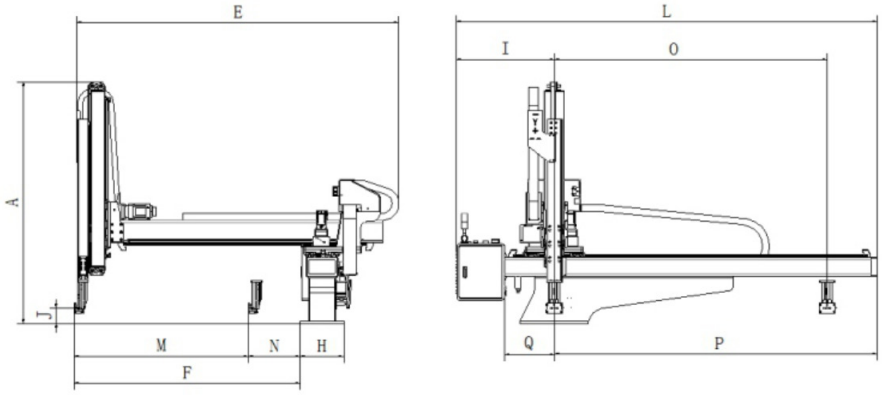
Fully open modular

全开放式简洁布局及模块化设计便于维护，正反向安装变更更加方便，治具采用便挂式组装，更具人性化处理，真空负压值在线实时监测。

The fully open, simple layout and modular design make maintenance easier. The forward and reverse installation changes are more convenient. The fixture is assembled in a hanging style, which is more user-friendly. The vacuum negative pressure value is monitored online in real time.

With stable performance, it has won the deep trust of our customers.

Bullhead Three AXIS Servo Robot 三轴牛头式单臂双截



产品参数 Product parameters

机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR12-1500II	350~800	1500	1000	2200	90	12	3.41	13.2	5~7	8	2.0	540
TLR25-1500II	550~1000	1500	1400	2200	90	25	4.2	15.0	5~7	8	2.35	679
TLR25-1700II	800~1500	1700	1400	2550	90	25	5.2	18.0	5~7	8	2.35	704
TLR25-1900II	1000~2000	1900	1600	2700	90	25	5.0	17.5	5~7	8	2.35	744
TLR40-1900II	1000~2000	1900	1600	2700	90	40	10.0	27.0	5~7	8	2.9	928
TLR40-2200II	1500~2500	2200	1800	3000	90	40	12.5	32.0	5~7	8	2.9	1064
TLR50-2500II	1600~3000	2500	1800	3600	90	50	12.5	35.0	5~7	8	2.9	1245
TLR50-3000II	2500~4000	3000	2000	4500	90	50	12.5	45.0	5~7	8	5.4	1948

机型	A	E	F	H	I	J	L	M	N	O	P	Q
TLR12-1500II	1800	1990	1320	300	740	水平 195 垂直 225	3390	1000	330	2200	2670	335
TLR25-1500II	1960	2622	1831	350	791	水平 60 垂直 100	3390	1400	431	2200	2604	403
TLR25-1700II	2068	2622	1831	350	791	水平 60 垂直 100	3736	1400	431	2550	2955	403
TLR25-1900II	2180	2840	2070	350	790	水平 60 垂直 100	3900	1600	431	2700	3110	403
TLR40-1900II	2400	2850	2033	405	918	水平 160 垂直 200	4053	1600	433	2700	3135	530
TLR40-2200II	2550	3050	2233	405	910	水平 160 垂直 200	4345	1800	433	3000	3435	522
TLR50-2500II	2800	3230	2290	405	525	水平 210 垂直 240	4580	1800	490	3600	4050	530
TLR50-3000II	3080	3450	2500	405	525	水平 210 垂直 240	5575	2000	490	4500	5050	530

TLR

高刚性框架结构 High-strength rigid frame structure

高强度的刚性框架结构确保设备在高速运行时的稳定性和精度，结构设计具有卓越的抗变形能力，同时考虑了紧凑空间的优化利用，安装和调试过程更加简单。

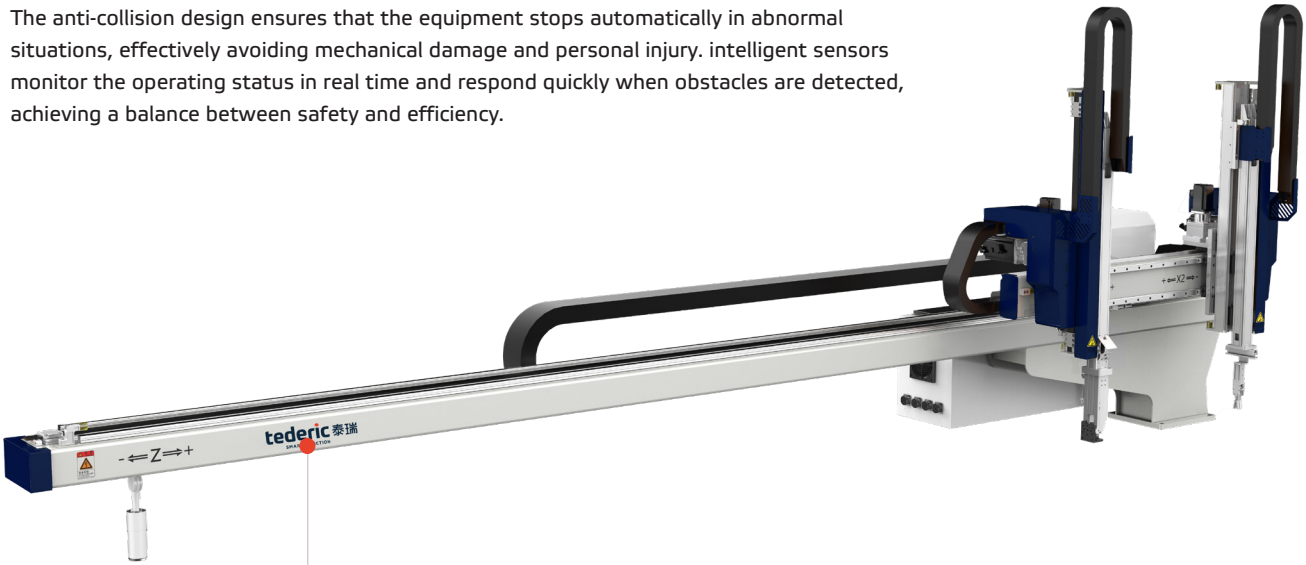
The high-strength rigid frame structure ensures stability and precision during high-speed operations. The design offers excellent deformation resistance while optimizing space utilization in compact environments, making installation and setup more straightforward.

防碰撞设计

Anti-collision design

防碰撞设计确保设备在异常情况下自动停止，有效避免机械损坏和人员伤害。智能传感器实时监测运行状态，并在检测到障碍物时迅速作出反应，实现了安全与效率的平衡。

The anti-collision design ensures that the equipment stops automatically in abnormal situations, effectively avoiding mechanical damage and personal injury. intelligent sensors monitor the operating status in real time and respond quickly when obstacles are detected, achieving a balance between safety and efficiency.



多行程定制，整厂统一规划

Customizable Multi-Stroke, Factory-Wide Unified Planning

根据您的车间设计需求，纵走机可定制不同长度，确保设备与工厂布局完美契合。整厂统一规划，使设备更符合生产要求，提升美观性与实用性。（详情请咨询公司）

According to your workshop design requirements, the longitudinal manipulator can be customized in different lengths to ensure that the equipment and the factory layout are perfectly matched. The unified planning of the entire factory makes the equipment more in line with production requirements and improves its aesthetics and practicality. (Please consult the company for details)

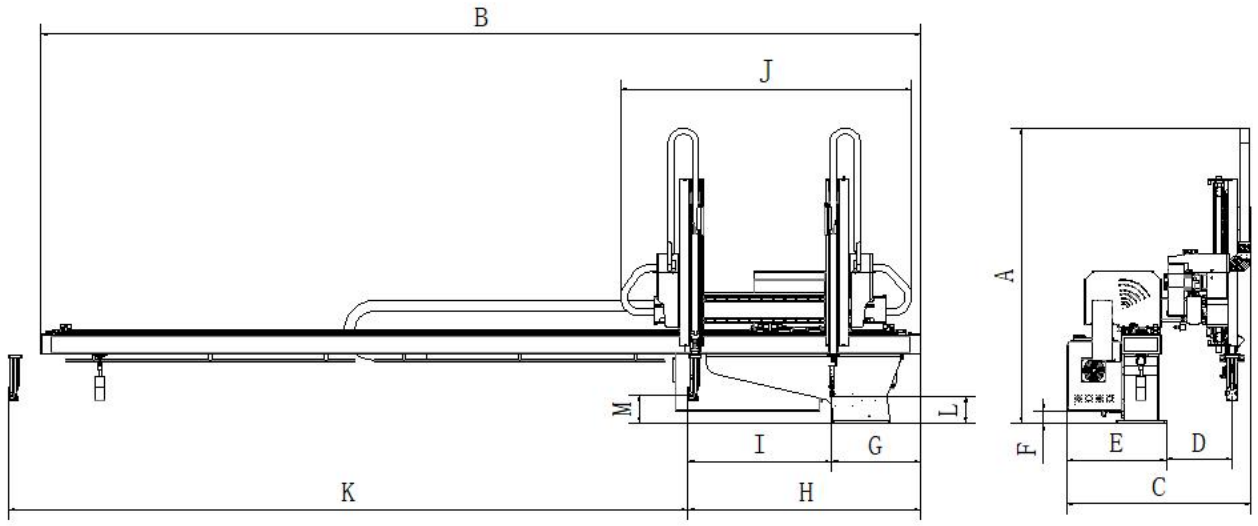
Five AXIS Servo Robot

纵走五轴侧挂双臂双截

精密线性滑轨
Precision linear guideway

铝合金型材手臂
Aluminum alloy type arm

全开放式模块化设计
All open modular design



产品参数 Product parameters

机型	适用(t)注塑机	上下行程(mm)	引拔行程(mm)	横行行程(mm)	侧姿角度(°)	最大荷重(kg)	取出时间(s)	空循环时间(s)	工作气压(kgf/cm³)	空气消耗量(nl/cucle)	电源消耗量(kva)	净重(kg)
TLR05-1000SII	120~280	1000	P:600 R:600	定制	90	5	1.7	根据实际	5~7	2	2.7	/
TLR08-1300SII	250~380	1300	P:600 R:600	定制	90	8	2.6	根据实际	5~7	2	2.7	/

机型	A	B	C	D	E	F	I(min)	I(max)	J	K	L	M
TLR05-1000SII	1531	定制	定制	定制	513	66	130	600	1530	定制	138	148
TLR08-1300SII	1670	定制	定制	定制	513	66	145	600	1530	定制	138	148

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