

# AFG Introduction



November 2020

TE INDUSTRIAL

EVERY CONNECTION COUNTS



# Focus Applications

							
<b>MOTION &amp; DRIVES</b>	<b>AUTOMATION CONTROLS</b>	<b>INDUSTRIAL ROBOTICS</b>	<b>OUTDOOR LIGHTING</b>	<b>WAREHOUSE AUTOMATION</b>	<b>SEMICONDUCTOR MACHINERY</b>	<b>AUTOMATION SENSORS</b>	<b>BESS/ EVI</b>
<ul style="list-style-type: none"> <li>▪ DC servo motors</li> <li>▪ Servo drives</li> <li>▪ AC drives</li> </ul>	<ul style="list-style-type: none"> <li>▪ PLC, SCADA</li> <li>▪ Controllers</li> <li>▪ I/O</li> <li>▪ HMI</li> <li>▪ IPc</li> </ul>	<ul style="list-style-type: none"> <li>▪ Articulated, SCARA &amp; Cobots</li> <li>▪ Controllers</li> <li>▪ EOAT</li> <li>▪ Service</li> <li>▪ AMR</li> </ul>	<ul style="list-style-type: none"> <li>▪ Street, Area &amp; Outdoor</li> <li>▪ Photocells &amp; Sensors</li> <li>▪ Horticulture</li> <li>▪ Architectural</li> <li>▪ Signage &amp; Traffic</li> </ul>	<ul style="list-style-type: none"> <li>▪ Electrical Forklifts</li> <li>▪ AGV</li> <li>▪ Automated Storage and Retrieval</li> <li>▪ Conveyors</li> </ul>	<ul style="list-style-type: none"> <li>▪ Production equipment</li> <li>▪ Wafer processing</li> <li>▪ Backend</li> </ul>	<ul style="list-style-type: none"> <li>▪ Position, Vision &amp; Safety Sensors</li> <li>▪ Process Instrumentation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Battery system</li> <li>▪ Solar inverter</li> <li>▪ Power control system</li> <li>▪ EV Charging</li> </ul>
   	   	  	 	   	   	   	   



# 伺服驱动& 伺服电机 解决方案

EVERY CONNECTION COUNTS



# 伺服驱动器的连接解决方案

整体解决方案

全功率段覆盖

## 主回路 & 电机电源



Dynamic X950  
现场接线型



Dynamic- 压接型

## 电路板连接器 (板对板, 线对板)



AMPMODU 系列



MiniMez

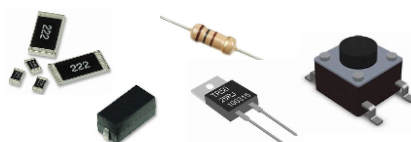


SMC



iBridge Ultra

## 被动元件



功率电阻

精密电阻

轻触开关

## 信号和通讯连接器

STO



Mini I/O



Dynamic

Control I/O



SCSI

电机编码器



1394



SCSI

EtherCAT/  
CAN



集成变压器RJ45



分体式变压器

Programme  
connector

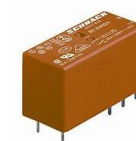


Mini USB



Type C

## 软启动-继电器



RT/ RZ 系列 (8A/ 16A)



T9A/ T9G系列 (30A)



IM系列  
信号继电器



# 伺服电机连接解决方案

减少组装时间

减少成本

提升竞争力

## 电源和信号连接器



欧系伺服电机方案

茵特康连接器



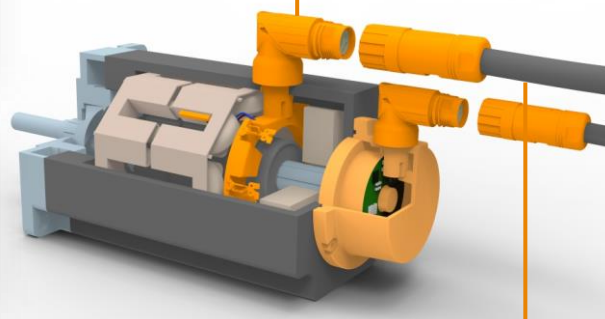
亚洲伺服电机方案  
(中大功率)

N Gen Econect 5015



亚洲伺服电机方案  
(小功率)

微电机连接器



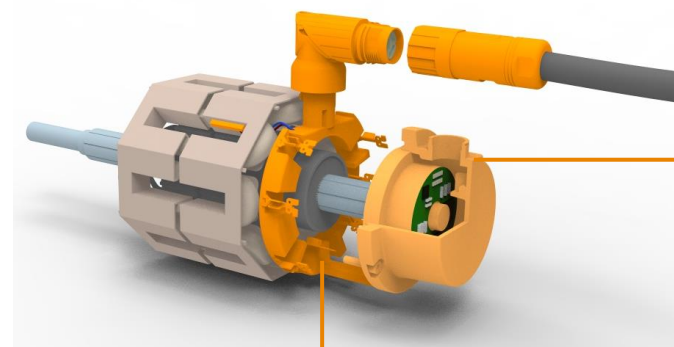
编码器延长线



Mini-Universal  
MATE-N-LOK



茵特康  
线对线连接方案



漆包线连接方案



MAG-MATE



SIAMEZE



AMPLIVAR

漆包线端子

电机反馈



旋变



Mini VP- 编码器  
线到板连接方案

# 机器人解决方案

EVERY CONNECTION COUNTS



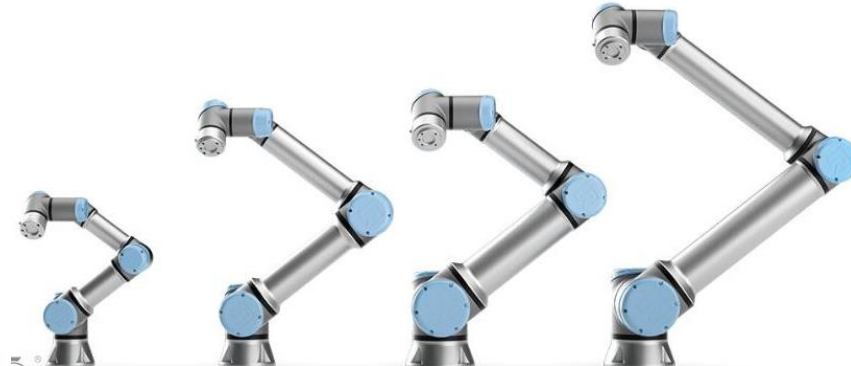
# 机器人细分机型



六轴关节机器人



SCARA机器人



协作机器人



配送机器人



# 机器人手臂

手臂末端扩展的传感器以及视觉系统需要IO传输连接器

1

手臂内部狭小空间连接

2

伺服电机连接

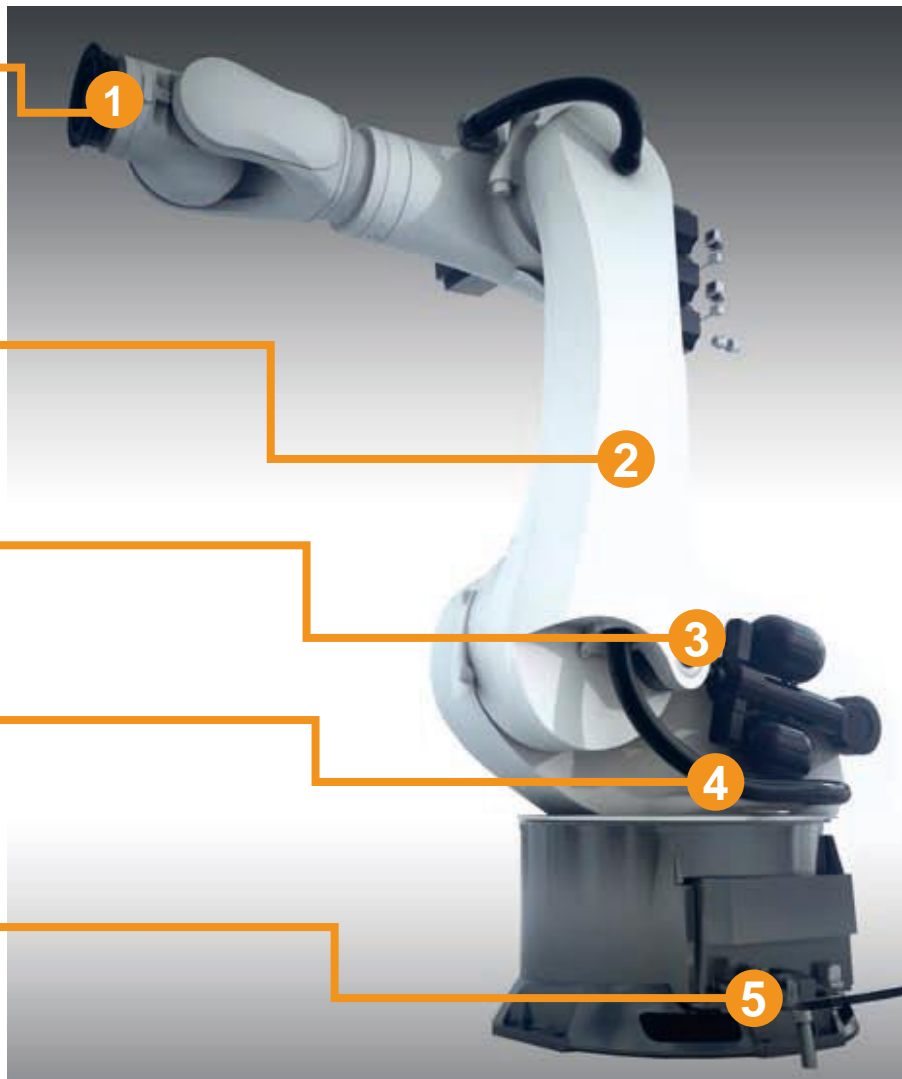
3

网络通讯连接

4

机器人信号及动力传输连接

5



1

4



M8 M12 Panel Mount Connector

2

4



Mini IO Wire-to-Wire Connector

2



Dynamic Wire-to-Wire Connector

4



Industrial RJ45 Connector

3



INTERCONTEC Connector

5



Heavy Duty Connector

5



Circular Plastic Connector

5



Dynamic Multi Enclosure Series

5



RAYCHEM INSTALITE Molded Boots

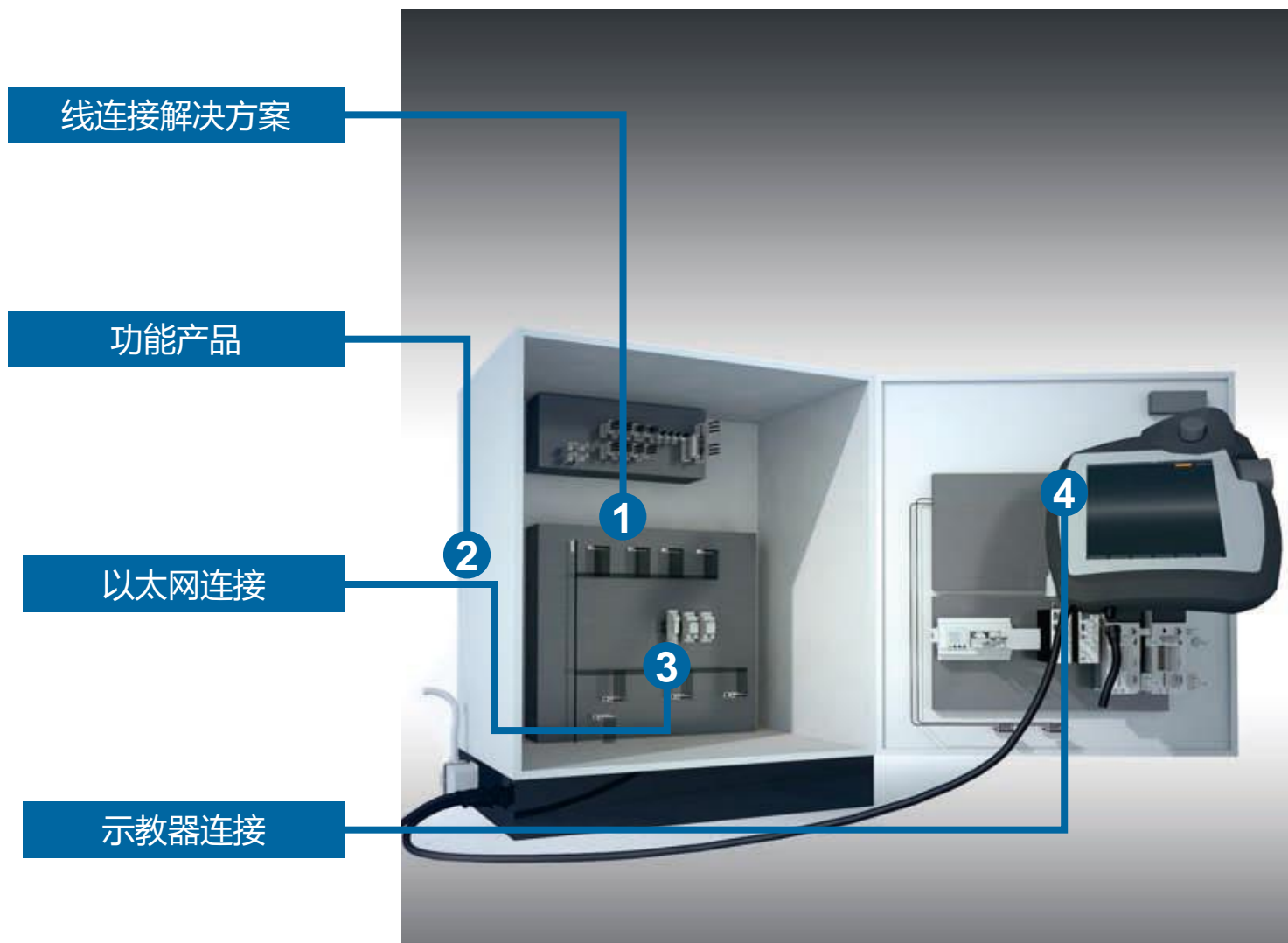
2



Mini Dynamic



# 机器人控制柜及示教器



线连接解决方案

功能产品

以太网连接

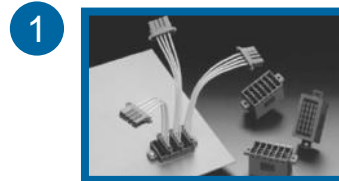
示教器连接



DIN Rail Terminal Block



PIDG Pre-Insulated Diamond Grip



Dynamic Connector (Danatap Series)



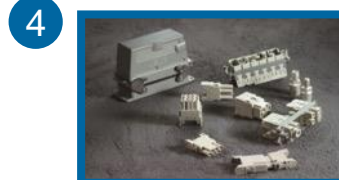
Corcom EMI/RFI Filter



INTERCONTEC Connector



Industrial RJ45 connector



Heavy Duty Connector



Power Resistor- HS series

# 协作机器人

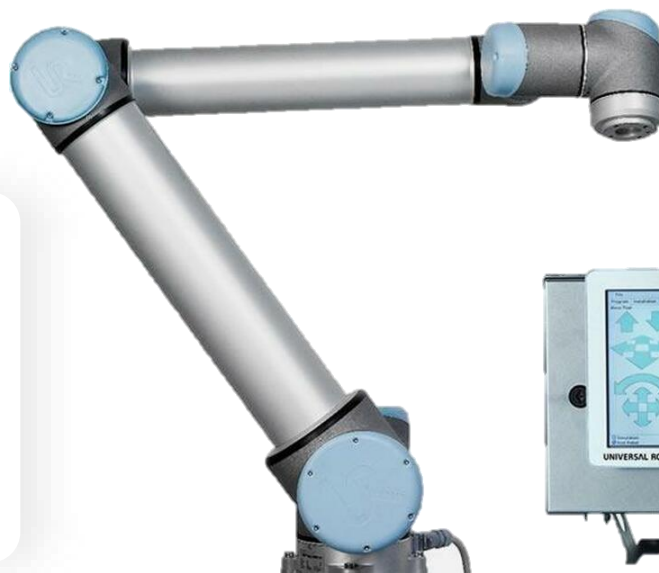
## 机器人本体电源和信号



茵特康连接器



HDC 重载连接器



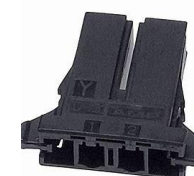
## 手臂末端信号连接



M8/M12 连接器 M8 8-pin



## 控制柜电路板连接器



Dynamic



AMPMODU



# PLC解决方案

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EVERY CONNECTION COUNTS



# PLC/ 运动控制器连接总体解决方案





I/O 模组

PCN  
功率继电器

RM  
功率继电器

背板连接器-  
DIN41612&HM 2mm

欧式端子排

D-Sub

## 定制化端子卡座连接方案



完整的定制化DIN 导轨I/O模块解决方案

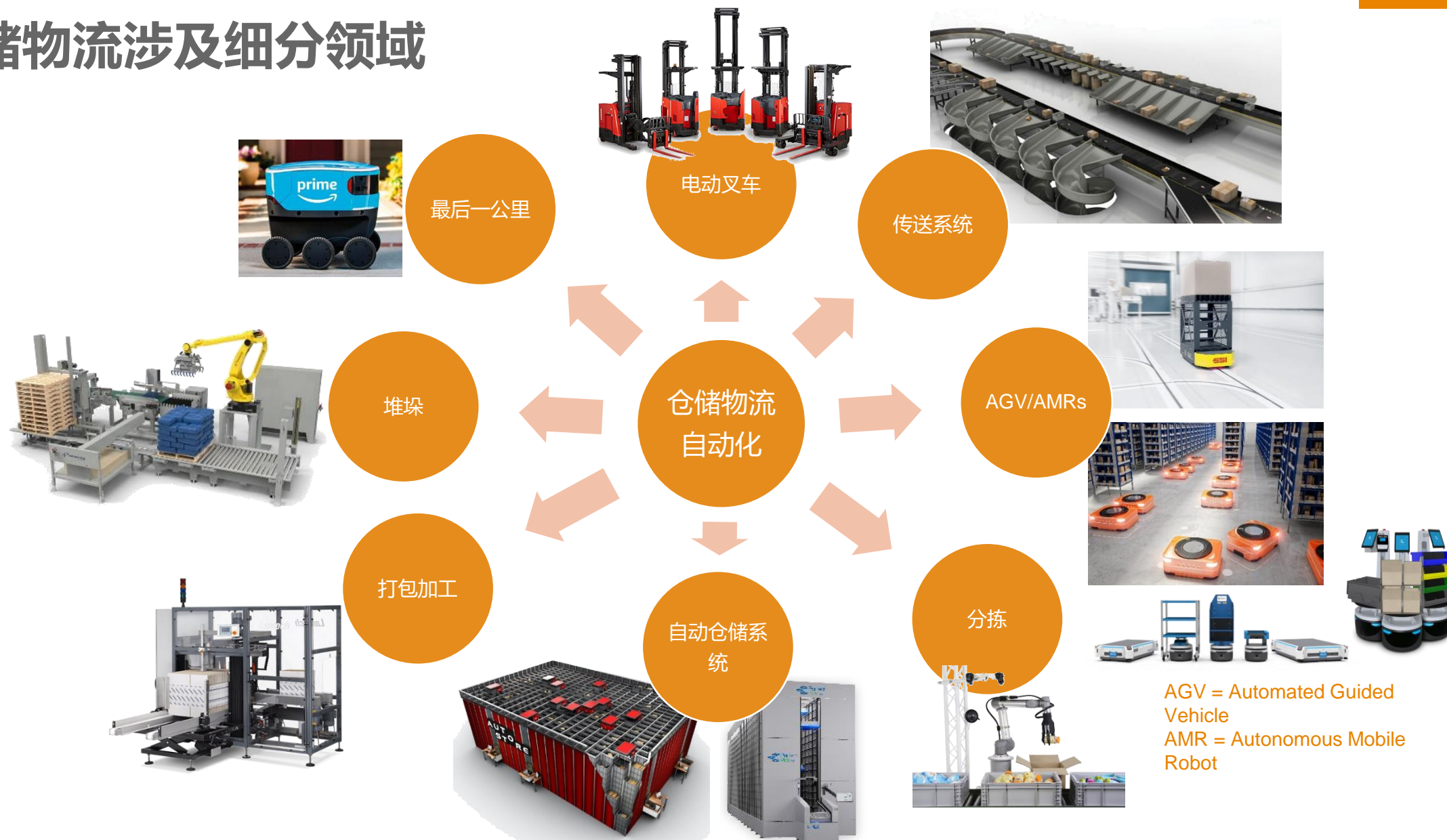
# 仓储自动化解决方案

EVERY CONNECTION COUNTS





# 仓储物流涉及细分领域



# AGV



# HDC 充电解决方案

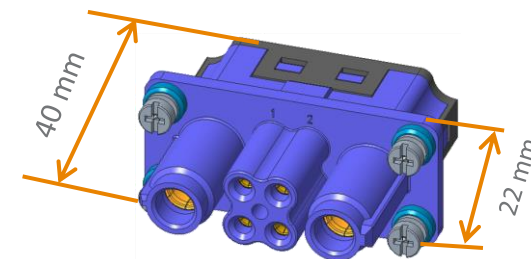
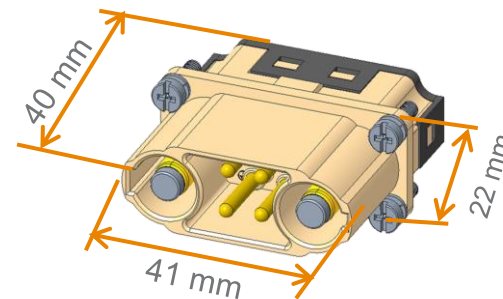
## 充电解决方案

### 特色:

- 混合模块:  
电源: 60A/400V \* 2pins  
信号: 10A \* 250V \* 4pins
- 高插拔次数:  $\geq 30,000$  次
- 浮动设计

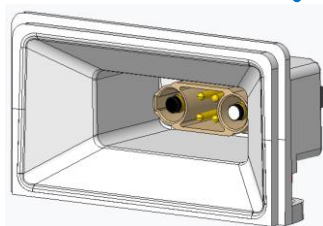
### 优势:

- Space Saving with hybrid system
- High Conduction Performance with low TR
- High Reliability Performance with high mating cycles
- Floating design: Correct mating positions



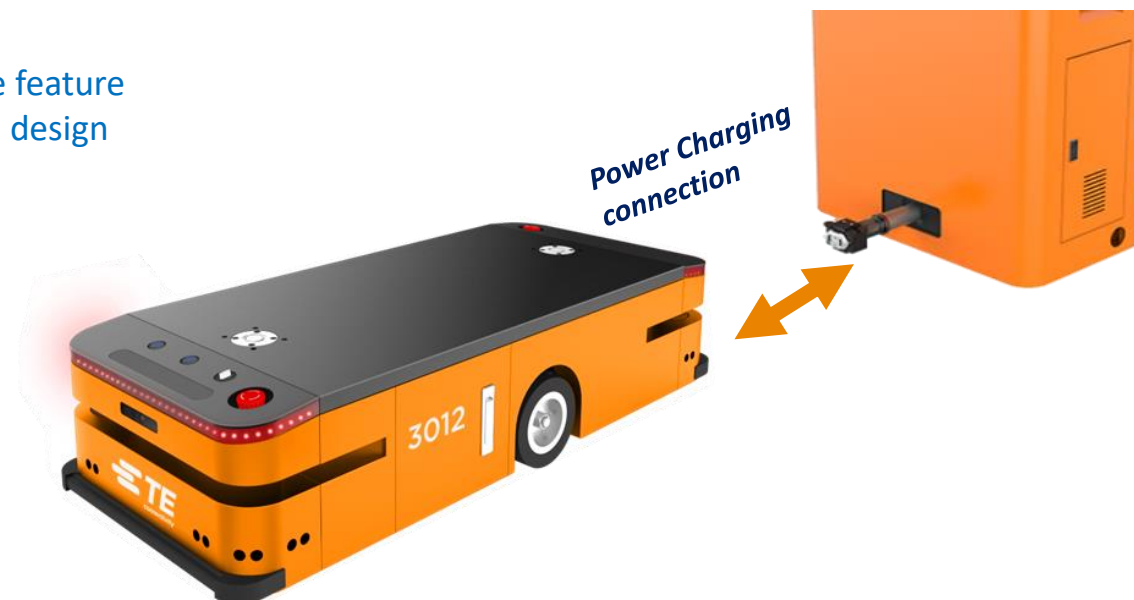
### Charging port - provided by customer

- Benefit for customer flexible design the feature
- Benefit for customer different platform design



### Core insert - provided by TE

- Benefit for customer using in whole platform AGV





Antennas & RF connectors

Sensors

IO Connectors for Extension Sensor and Visual System

Control Interface Connectivity

Power Connectivity

Relays & Contactors

Servo Motor Connectivity



Antennas – Standard & Custom



Data connectivity



Sensors



Industrial Communication  
M8 M12 RJ45



WtB & BtB Connectors

4



5



3

HEMS

4



5

Automotive / ICT  
Terminals & Connector Systems

6



6



5



7

INTERCONTEC Connectors

# 自动化传感器

EVERY CONNECTION COUNTS





## 元件

数据线组件



信号和数据连接器



标识



板连接



继电器



传感器



## 子应用

PCB 互连



通讯和 I/O 连接



转换



传感器元件技术



## 传感器类型

位置传感器



安全传感器



机器视觉



过程仪器仪表





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**WHEN  
TECHNOLOGY  
CONNECTS,  
SO DOES HUMANITY.**

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EVERY CONNECTION COUNTS

