



Heavy Duty Connector Introduction

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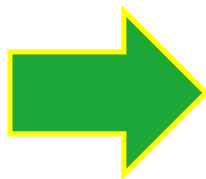
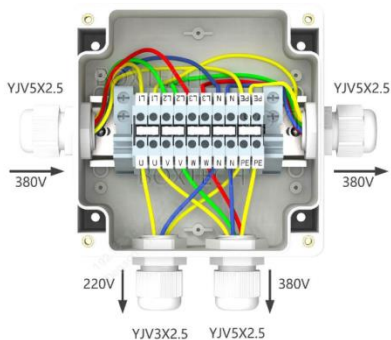
- 1、 Product Introduction
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1.Product Introduction



Junction box solution



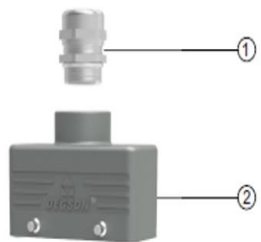
- ① Complex field wiring;
- ② Require professional skills;
- ③ large size, occupy large space;
- ④ Not easy to move and disconnect, not easy to maintain;
- ⑤ Complex wires and cables, easy to make mistakes;

Heavy Duty Connector Solutions



- ① Realize in-plant prefabrication, decrease wiring error rate;
- ② Improve the efficiency of equipment installation and save costs;
- ③ Easy wiring, realize modular structure for each function of the equipment, easy to install and maintain;
- ④ High protection(IP65/68) provide effective protection for equipment connection system in harsh environments;





① Cable gland

② Hoods

Inserts
9 Series
More than 200 types



③ Male contact

④ Male insert

Housings
10 Series
More than 800 types

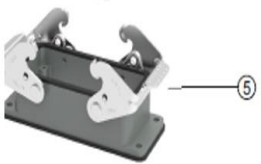


④ Female insert



③ Female contact

Contacts
Various platings
Various current rating
More than 300 types



⑤ Housing

Accessories
More than 200 types
Various cable glands
Coding pin and tools



2、 Product Classification



1. Heavy-duty DA insert series product introduction

Product Definition

- **The slim inserts**
 - Suitable for signal, power connection;
 - Position range: 3-32 pins;
 - Current range: 10~16A;
 - Voltage range: 250~400V.



Working principle:











After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- Compact and space-saving;
- Various connection methods of screw, shrapnel and cold pressing are available;



1、DA Inserts

DA Pin	3	4	10	16	32
Picture					
Rated voltage	400V	400V	250V	250V	250V
Rated Current	10A	10A	16A	16A	16A
Connection method	Screw				
DA Pin	3	4	10	16	32
Picture					
Rated voltage	400V	400V	250V	250V	250V
Rated Current	10A	10A	16A	16A	16A
Connection method	Cage-spring			Crimp	



2. Heavy-duty DD/DDD insert series product introduction

Product Definition

- **Ultra-high Density Inserts**
 - Suitable for signal, power connection;
 - Position range: 7-216 pins;
 - Current range: 10A;
 - Voltage range: 250V.



Working principle:
















After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- High density pins, up to 216 pins;
- Pins with different wire diameters and coatings are available;
- Suitable for vibration occasions;



2、DD/DDD Inserts

DD Pin	7	8	15	25	40	50	64	80	128
Picture									
Rated voltage	250V								
Rated Current	10A								
Connection method	Crimp								
DDD Pin	24	42	72	108	144	216			
Picture									
Rated voltage	250V								
Rated Current	10A								
Connection method	Crimp								



3. Heavy-duty DE insert series product introduction

Product Definition

➤ Standard Inserts

---Suitable for signal, power connection;

---Position range: 6-48 pins;

---Current range: 16A;

---Voltage range: 500V.



Working principle:

After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- Screws, shrapnel, cold pressing and in-line connection are optional;
- High industry versatility;



4. Heavy-duty DEE insert series product introduction

Product Definition

- **High-density Inserts**
 - Suitable for signal, power connection;
 - Position range: 10-92 pins;
 - Current range: 16A;
 - Voltage range: 500V.



Working principle :







After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- High-density pins, saving installation space ;
- Pins with different wire diameters and coatings are available ;
- Suitable for vibration occasions ;



4、 DEE Inserts

DE Pin	10	18	32	46	64	92
Picture						
Rated voltage	500V					
Rated Current	16A					
Connection method	Crimp					

5、 Heavy-duty DQ insert series product introduction

Product Definition

- **Compact low profile Inserts**
 - Suitable for signal, power connection;
 - Pin number range : 2-17 Pin;
 - Current range : 10~40A;
 - voltage range : 250~690V.



working principle:









After the wires are connected, the corresponding housings are matched, and the plug and the plug move toward each other to realize the connection and intercommunication of the multi-core wires of the two connectors, and transmit signals, power or data.

Features:

- High-density pins, saving installation space ; Pins with different wire diameters and coatings can be selected;



5、DQ Inserts

DQ Pin	2	2	5	7	12
Picture					
Rated voltage	830V	400V	400V	400V	400V
Rated Current	40A	40A	16A	10A	16A
Connection method	Screw			Crimp	
DQ Pin	8	17	4/2		
Picture					
Rated voltage	500V	250V	690V/400V		
Rated Current	16A	10A	40A/10A		
Connection method	Crimp				



6、 Heavy-duty DSB insert series product introduction

Product Definition

- High current type Inserts
 - Suitable for signal, power connection;
 - Pin number range : 6-12 Pins;
 - Current range : 35A;
 - voltage range : 400~690V.



Working principle :



After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- Screw connection without special tools;



6、DSB Inserts

DSB Pin	6	12
Picture		
Rated voltage	500V	
Rated Current	16A	
Connection method	Screw	

7、Heavy-duty DK insert series product introduction

Product Definition

➤ Combined Inserts

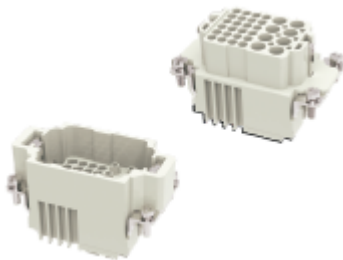
--- Suitable for signal, power connection;

--- Pin number range: 8/24,4/0,4/2,12/2

Pins;

--- Current range : 10~100A;

--- voltage range : 250~690V.



Working principle :





After the wires are connected, the corresponding housings are matched, and the plugs and the sockets are mutually matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

➤ The combination of power and signal area saves costs; Small space to achieve strong and weak electrical connection;



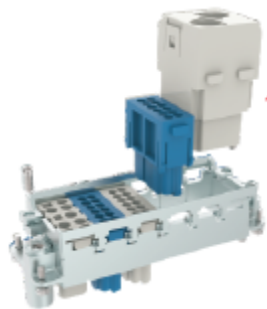
7、DK Inserts

DK Pin	8/24	4/0	4/2	12/2
Picture				
Rated voltage	400V/250V	690V	690V/400V	690V/250V
Rated Current	16A/10A	80A	80A/16A	40A/10A
Connection method	Crimp	Screw	Screw	Crimp

8、 Heavy-duty DM insert series product introduction

Product Definition

- **Modular Inserts**
 - Suitable for signal, power connection;
 - Pin number range : 1-25 Pins;
 - Current range : 1~200A;
 - voltage range : 50~1000V.



Working principle :





















After the wires are connected, the corresponding housings are matched, and the plug and the plug move toward each other to realize the connection and intercommunication of the multi-core wires of the two connectors, and transmit signals, power or data.

Features:

- Modular structure, free combination, high flexibility;



8、DM Inserts

DM Pin	1 pin	2 pin	2 pin	2 pin	2 pin	3 pin	3 pin	¾ pin	4 pin	5 pin
Picture										
Rated voltage	1000V	1000V	1000V	1000V	1000V	690	500V	830V	830V	400V
Rated current	200A	100A	70A	40A	40A	40A	40V	40/10A	40A	16A
Connection method	Screw	Screw	Screw	Screw	Crimp	Screw	Crimp	Crimp	Crimp	Cage-clamp
DM Pin	6	6	8	12	17	20	25	D-Sub	RJ45	empty module
Picture										
Rated voltage	500V	830V	400V	250V	160V	500V	50V	50V	50V	/
Rated current	16A	16A	16A	10A	10A	16A	4A	5A	1A	/
Connection method	Crimp								/	/



9、 Introduction of Heavy Duty Hoods&Housing Series

Product Definition

➤ IP65 protective hoods& housings



Working principle :

After the wire is connected to the plug body, it is installed in the upper shell and the base respectively, and is fixed and protected by means of locks, etc. **At the same time, it can be used for opening, surface installation and cable docking.**

Features:

- Metal or high-strength plastic material, resistant to high-strength mechanical shock;

9、Introduction of Heavy Duty Hoods&Housing Series

Inserts and Hoods&Housings Intermatch Table

		芯件及DM活动框架							
外壳类型	DA	DD	DDD	DSB	DE	DEE	DQ	DK	DM 活动框架
D3A	DA-003、 DA-004	DD-007、 DD-008					DQ-005、 DQ-007、 DQ-012		
D10A	DA-010	DD-015							
D16A	DA-016	DD-025							
D32A	DA-032	DD-050							
D6B			DDD-024		DE-006	DEE-010			DF6B
D10B			DDD-042		DE-010	DEE-018		DK-8/24	DF10B
D16B		DD-040	DDD-072	DSB-006	DE-016	DEE-032		DK-4/0、 DK-4/2、 DK-12/2	DF16B
D24B		DD-064	DDD-108		DE-024	DEE-046		DK-4/8 DK-8/0	DF24B
D32B		DD-080	DDD-144	DSB-012	DE-032	DEE-064			
D 48B		DD-128	DDD-216		DE-048	DEE-092			
DM活动框架：1、DF6B：可安装两个标准模块；2、DF10B：可安装三个标准模块；3、DF16B：可安装四个标准模块；4、DF24B：可安装六个标准模块。普通单个DM芯件所需安装空间为一个标准模块空间（DMK7-002、DMK-002、MK-003、DMK-003/4、DMK-004、DVME-006、DME-006、DMEE-008、DMD-012、DMD-017、DMD-025、DM-RJ45、DKE-009），三种模块除外（其中D2MK-001、D2MK-002、DMEE-020这三种占两个标准模块空间）。									



9、Hoods

Hoods classification

Shell size / structure height / hole size / hole direction / locking method



顶部出线-2耳锁扣



顶部高结构出线-2耳锁扣



侧面出线-2耳锁扣



顶部高结构出线-2耳锁扣



顶部出线-2耳锁扣



顶部出线-4耳锁扣



顶部高结构出线-4耳锁扣



侧面出线-4耳锁扣



侧面高结构出线-4耳锁扣



侧面出线-2耳锁扣



9、Housings

Housing classification

Shell size/installation method/protective cover/locking method



开孔安装-1扣子



开孔安装-带盖子-1扣子



表面安装-1扣子



表面安装-带盖子-1扣子



开孔安装-2扣子



表面安装-2扣子



开孔安装-1扣子



开孔安装-带盖子-1扣子



表面安装-1扣子



10、 Heavy-duty contact pin series product introduction

Product Definition

- **Product Definition**
 - Suitable for signal, power, Data connection;
 - Current range : 5~40A;



Working principle :

The wires and pins are crimped, inserted into the corresponding inserts, and the male and female inserts are inter-matched to realize the connection and intercommunication of the multi-core wires of the two connectors to transmit signals, power or data.

Features:

- Gold-plated and silver-plated options are available, suitable for different environmental requirements;

10、 Heavy Duty Pin Series Products

The following parameters can be confirmed: wire parameters (cold pressure needle must be adapted to the core);

(1)5A Silver Plating Needle



5A Gold Plating Needle



(2)10A silver plated needle



10A Gold Plating Needle



Suitable for DM series inserts

Suitable for DD, DDD, DM, DK, DQ series inserts

(3)16A Silver Plating Needle



16A Gold Plating Needle



(4)40A silver plated needle



40A Gold Plating Needle



Suitable for DEE, DM, DK series inserts

Suitable for DM and DK series inserts



11、 Heavy Duty Accessories Series Product Introduction

Product Definition



working principle :

In the process of assembling heavy-duty products, it is used in conjunction with the plug, pin and shell.

Features :

- Professional design for product features and structure, stable, reliable and efficient;
- A complete range to meet the different needs of customers.

11、Accessory

Gland header

Cable gland fastening method

Metal cable gland



Plastic cable gland



Metal Clamp Fastener



Metal bellows gland



Cable feed size, German standard and metric thread comparison table

Cable glands are available in German standard cylindrical thread (PG) and metric (M) according to the customer's cable parameters to confirm the size of the glands.

Pg	Cross Reference	Metric
Pg 11	→	M 20
Pg 13.5	→	M 25
Pg 16	→	M 32
Pg 21	→	M 40
Pg 29	→	M 50
Pg 36	→	
Pg 42	→	



11、Accessory

Cold press pliers/needle extractor

Note:

1. There is no need for additional needles for screws, shrapnel and coaxial crimping;
2. For the crimping of the cold pressing needle, the male and female needles that are suitable for the core must be additionally provided;



Crimping tool

Wire gauge: (TL1)0.14~4.0mm²

Wire gauge: (TL2)6.0~10mm²



Removal tool (10A)

Matching: DD,DDD,DM



Removal tool (16A)

Matching: DEE,DM






Removal tool (40A)

Matching: DM



11、Accessory

Type	Picture	Feature
Rail bracket		Adjustable guide rail bracket, mainly used in the power industry
coding pin		Fool-proof numbering and guidance
Fixed frame		For cabinet-free plug-in

3、 Heavy Duty Product Features and Quality

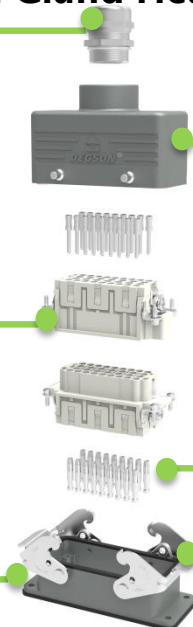
1、 product structure

Heavy-duty connectors are mainly composed of male and female inserts (matching male and female pins), Hood, Housing, and Gland Head .

Gland:
Brass Nickel Plated/NylonIP68
protection, safe and reliable

Insert:
PC material Temperature
resistance -40°C ~ 125°C, high
strength, impact resistance

Seal:
NBR Anti-aging, waterproof,
oil-proof and dust-proof



Hoods and Housing:
die-casting aluminum alloy, surface
spraying process High mechanical
resistance and protection

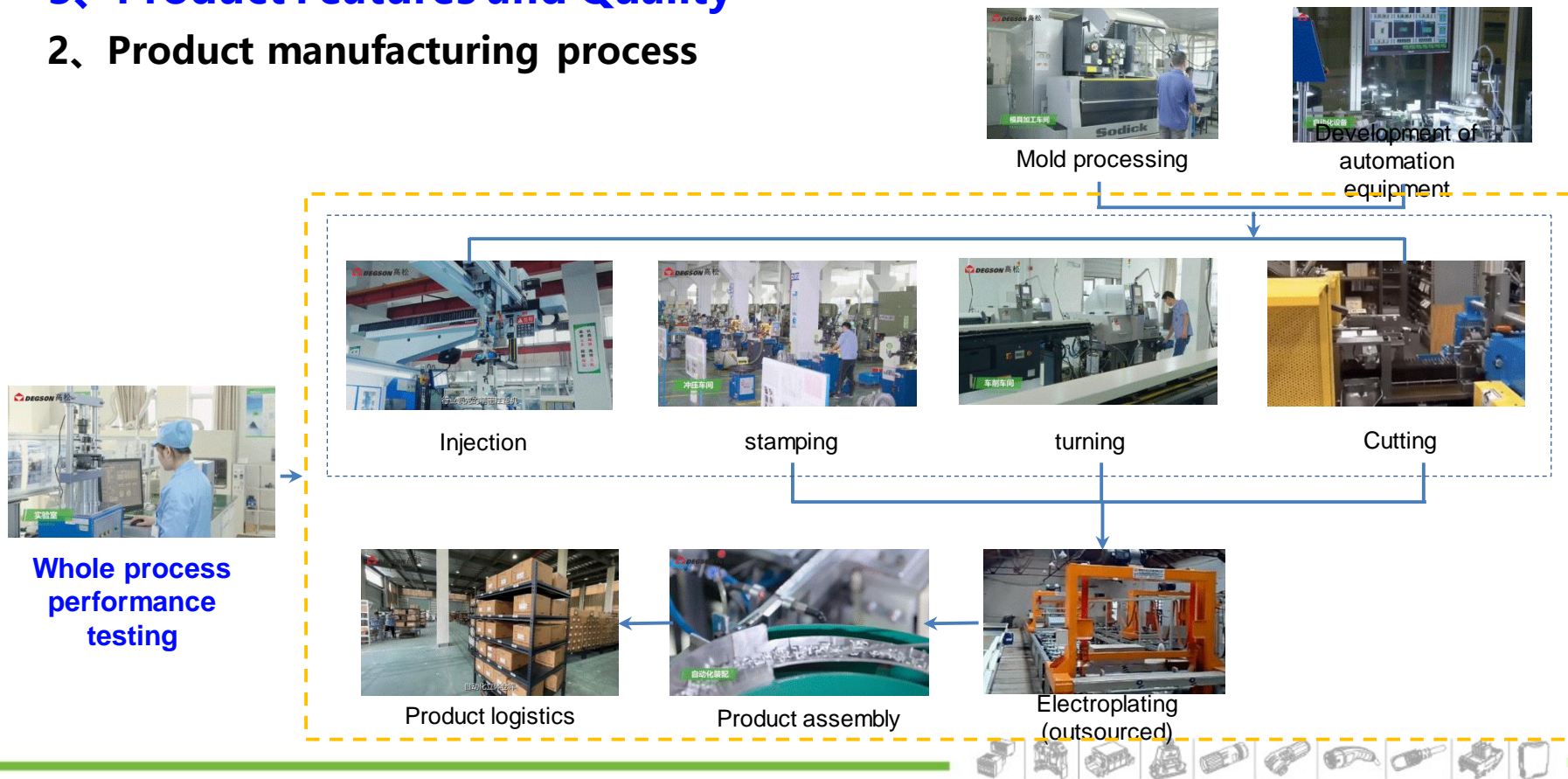
Pins:
Copper alloy (gold plated, silver
plated)Turning process for good
electrical conductivity

Buckle:
cold rolled sheet/stainless
steel Salt spray resistant,
easy to lock




3、 Product Features and Quality

2、 Product manufacturing process



3、 Product Features and Quality

3、 Product Certification and Testing Standards

The purpose and significance of common tests			Certification s
Test classification	Test items	Testing purposes	IEC61984 / 
Mechanical performance test	Static pull test	Test the reliability of the product's wiring in a static environment	●
	Spin pull test	Test the reliability of the product's wiring in a dynamic environment	●
Electrical performance test	Impulse withstand voltage test	Test the insulation ability of the product under specific conditions to prevent breakdown at the customer	●
	Temperature rise test	Test the degree of temperature rise of the metal conductor when the product is used normally through the rated current to ensure the safety of the customer during use	●
	Current carrying capacity test	Detect the reliability of the terminal carrying large current in a short time, and test the safety of current operation	●
Environmental performance test	Corrosion resistance test	Inspect whether the product will be oxidized and rusted in a harsh environment, which will affect the performance of the product	●
	High and low temperature test	Inspect whether the product will be damaged in a high and low temperature environment, which will affect normal use	●

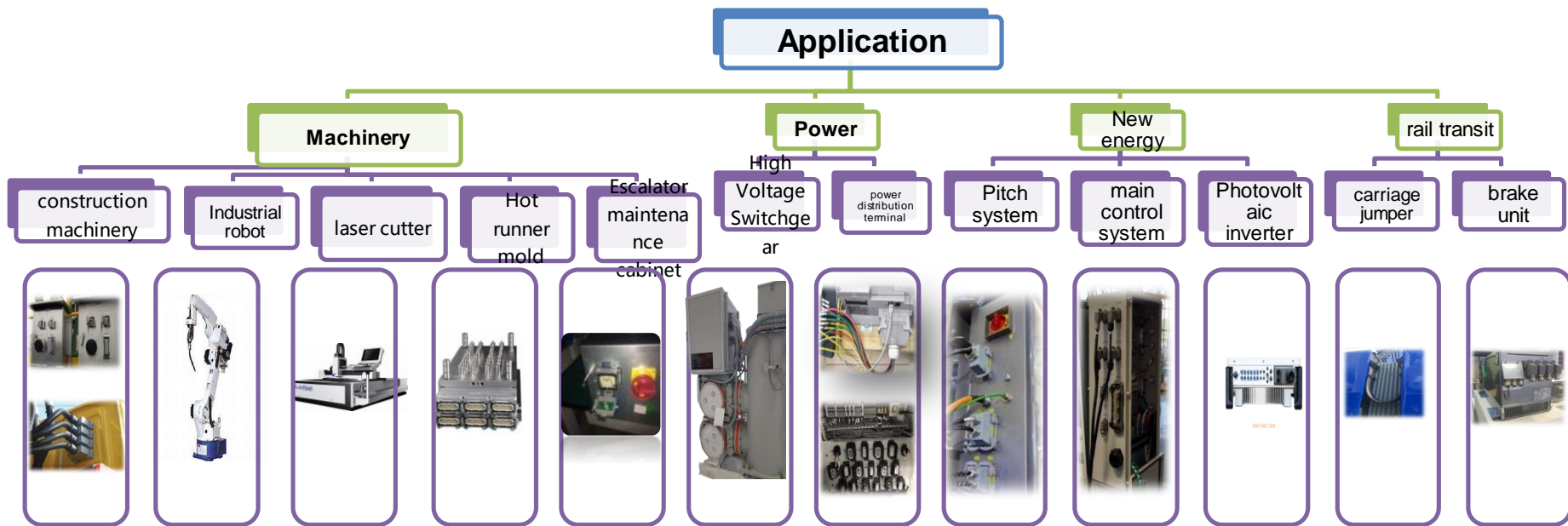


4、 Application Industry and Successful cases



4、Product Application

Heavy-duty products are mainly used in four major fields: machinery manufacturing, electric power, energy, and rail transit.



4、 Main industries and applications of heavy-duty products

Industrial robot

Features: For those high repeated、exhausting、dangerous、in harsh environments work types, the demand for robots increase rapidly;

Application Scenarios: Transport、stack、painting、soldering、assembly ,servo systems and control systems for industrial robots;

Product used:



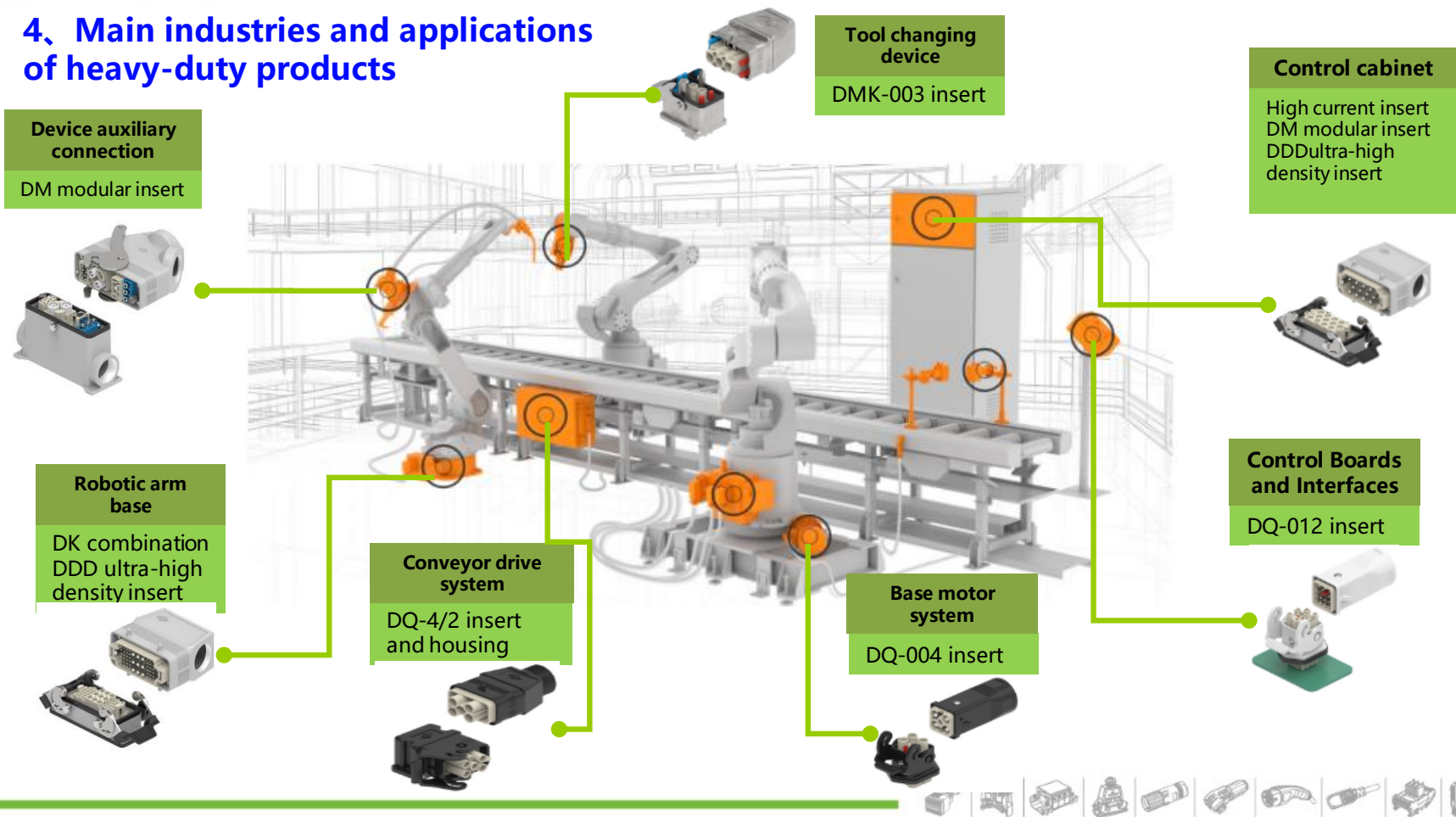
Ultra High Density Series



Modular combination series



4、 Main industries and applications of heavy-duty products



4、 Main industries and applications of heavy-duty products

Industry solutions-Industrial robot arm

Application scenarios



The robot arm base is connected to the control cabinet

Products used



DDD-072 kit

- High-density cold-press connection, space-saving.
- 10A silver-plated pins, safe and reliable.



Modular kit

Free combination and high flexibility.
Integration of signal, power and data transmission.
High customer selectivity

Successful case

SIASUN



博智林机器人
Bright Dream Robotics



4、 Main industries and applications of heavy-duty products

Elevator

Features: Suitable for harsh environments, easy to transport, ease of installation and maintenance, and reduced costs.

Application Scenarios: Inverter control system of elevator, system control cabinet and control station of escalator, on-site commissioning and maintenance control cabinet;

Products:



Standard series



Combination series



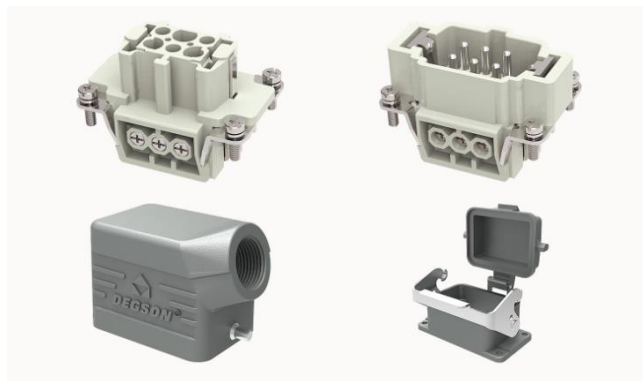
4、 Main industries and applications of heavy-duty products

Industry solutions-Escalator switch examine and maintain cabinet

Application scenarios



Products used



DE-006 Kit
IP65 protective housing.
Screw connection for easy operation.
Base with PCB board for shorting
function.

Successful case

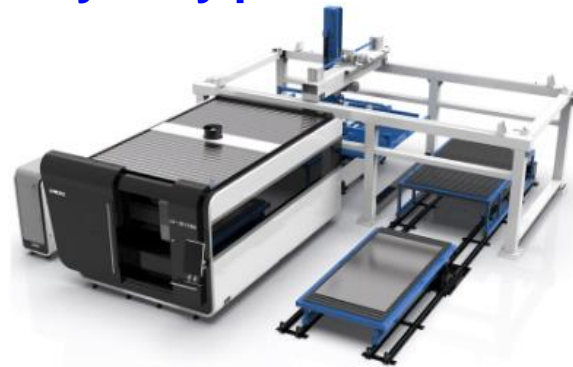


4、 Main industries and applications of heavy-duty products

Machine-tooling equipment

Features: Multiple prefabricated cables connected through walls;

Application Scenarios: System control cabinets; conveyor systems.



Products:



Ultra-high density series



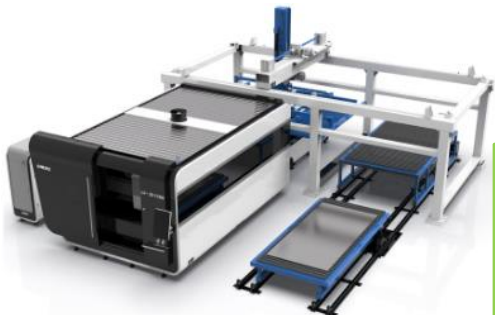
Standard series



4、 Main industries and applications of heavy-duty products

Industry Solutions - Tower Crane Driver's Cabin Control Cabinet

Application scenarios



Control cabinet and equipment connection part

Products used



DE-024 kit

- IP65 protective housing, safe and reliable.
- Screw connection, no special tools required, easy to operate;

Successful case



4、 Main industries and applications of heavy-duty products

Construction Machinery

Features: Suitable for harsh environments, easy to transport, convenient for installation and maintenance, and reduced costs.

Application Scenarios: Lighting system, engine and gearbox, electrical control box, main control system, traction system.



Standard series



Combination series



4、 Main industries and applications of heavy-duty products

Industry Solutions - Tower Crane Driver's Cabin Control Cabinet

Application scenarios



Products used



Product strength

- 1.Screw connection technology , suitable for wide range of wire specifications
- 2.Without special tool , easy operation.
- 3.Less material, easy to manage.
- 4.With grounding protection.

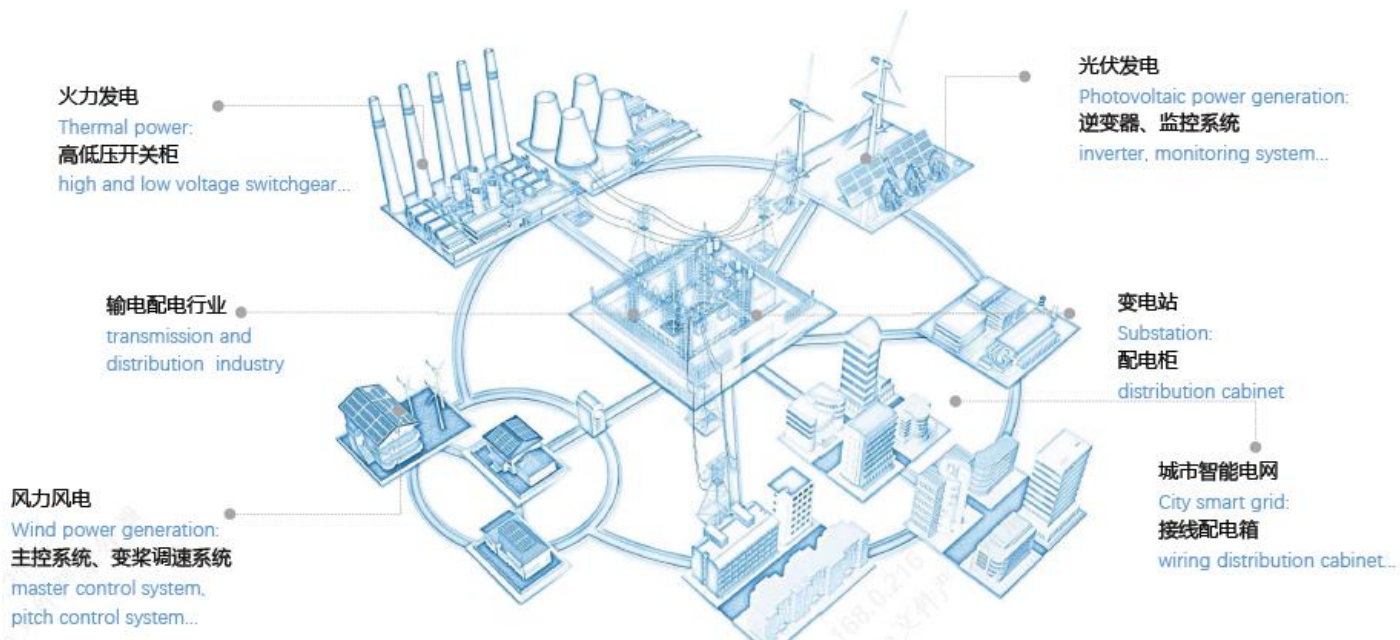
Successful case



三一集团
品质改变世界



4、 Main industries and applications of heavy-duty products



4、 Main industries and applications of heavy-duty products

Power Generation

Features: Long construction cycle, large investment scale for transmission and distribution, and in many countries power business should be authorized by government.

Application Scenarios: GIS high voltage cabinet, wind power slip ring, pitch system, etc.



Ultra-high density

High density



Module combination



High-protection housing

Products:



4、 Main industries and applications of heavy-duty products

Industry Solutions-Electricity GIS High Voltage Switchgear

Application scenarios

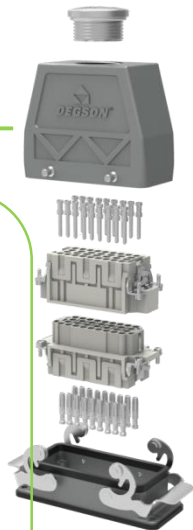


High Voltage Switchgear



Products used

- 1. DEE-032 Kit
- 2. IP65 protection level
- 3. Stainless steel clips
salt spray 72H
- 4. Cold press connection
With excellent shock
resistance



Successful case

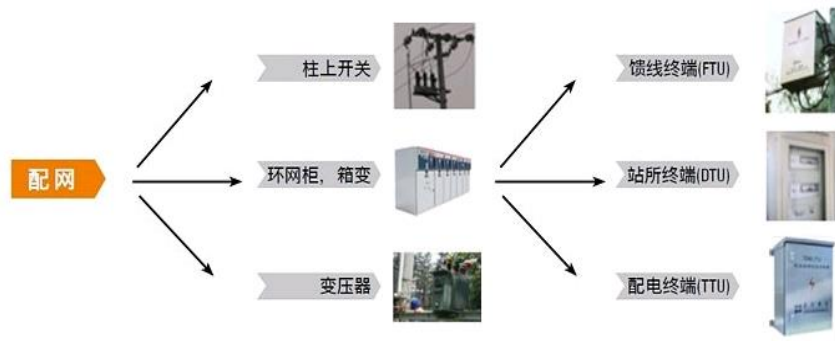


4、 Main industries and applications of heavy-duty products

Power distribution (protection measurement and control)

Features: Cable pre-fabrication, saving installation and transportation costs. High protection level, suitable for outdoor, dust, rain harsh environments.

Application Scenarios: Distribution Network
Automation Terminal DTU/TTU



Products: Ultra-high density



Compact



Customized combination type



4、 Main industries and applications of heavy-duty products

Industry Solutions—Distribution Network Automation Terminal TTU

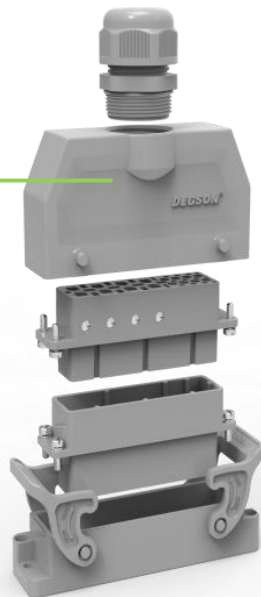
Application scenarios

Products used

Successful case



Outdoor power distribution cabinet



The strong power part adopts DK-8/8 anti-open circuit products, which are mainly responsible for transmitting the power signal of voltage and current.



4、 Main industries and applications of heavy-duty products



Pitch system

IP65 housing
DM modular inserts



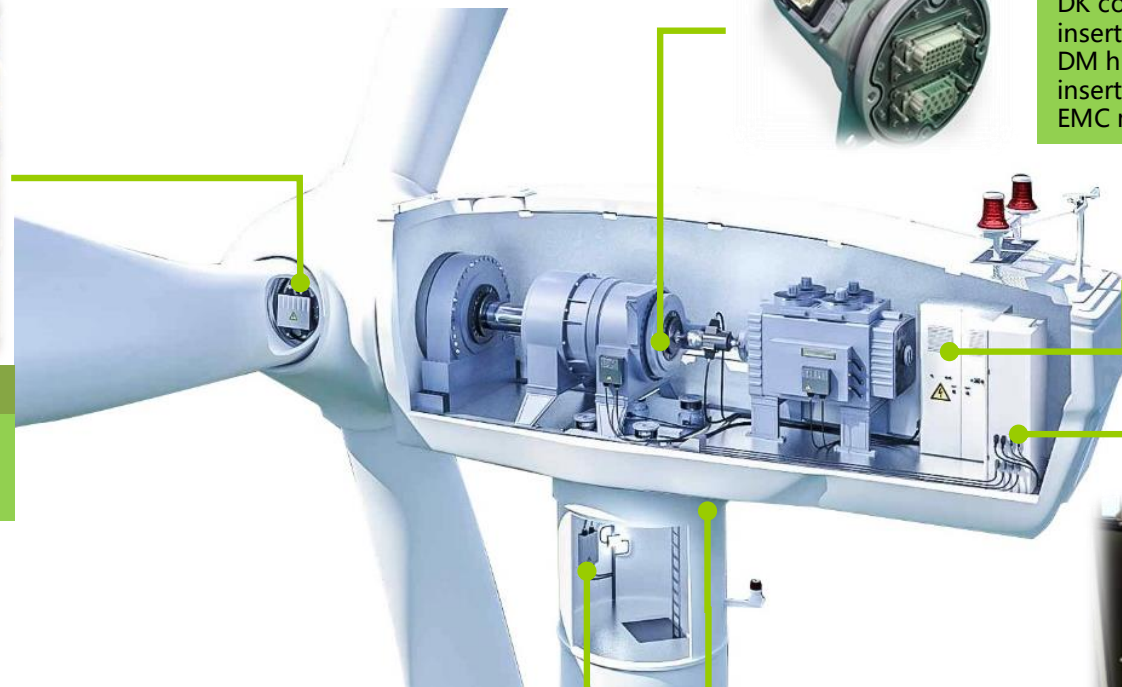
Pitch slip ring

DK combination inserts
DM high current inserts
EMC modular



Converter

IP65 general housing
DK combination inserts
DE general screw inserts



Tower equipment

Yaw system



Main control system

DQ series inserts
DE general screw inserts



4、 Main industries and applications of heavy-duty products

Rail Transit

Features: The threshold is high, with strict requirements for product performance quality (high reliability, high anti-interference, anti-vibration), and the need for relevant certification (IRIS, CRCC)

Application Scenarios: Pantograph control system, brake unit device, automatic train protection system, locomotive electric control cabinet, carriage jumper train tilting system, carriage air conditioning, door step system...



Products:



Ultra-high density



Compact



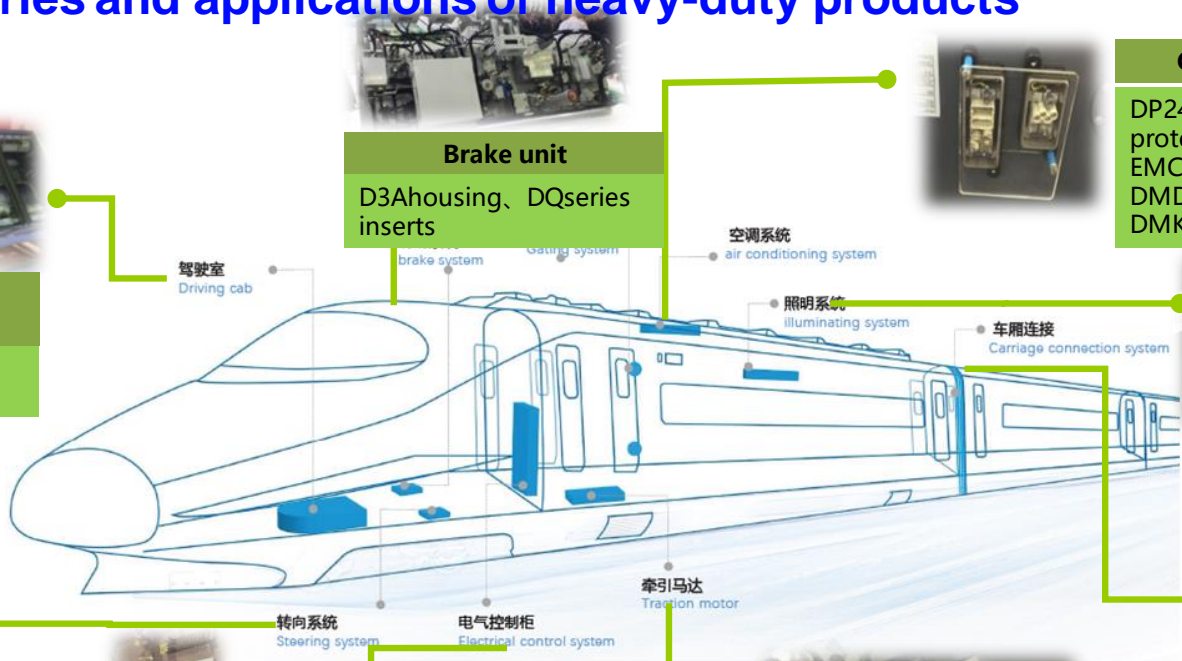
Modular combination



Specialized housing



4、 Main industries and applications of heavy-duty products



Cab hardware control system
D24B housing
DMEE-008-MC/FC



Brake unit
D3A housing, DQ series inserts



Carriage AC
DP24B high protection housing
EMC modular,
DMD-012
DMK-004-MC/FC



Control cabinet top
DP24B high protection housing



Chassis bogies
DP high protection housing
350A high current inserts



Power control cabinet
EMC modular,
DD high-density inserts

牵引马达
Traction motor



Traction system
D24B general housing,
high density inserts



Carriage connection
DP high protection housing



4、 Main industries and applications of heavy-duty products

Industry Solutions - Toliet Equipment Connection

Application scenarios



Toliet on locomotive equipment

Products used



DQ-007 Kit
Cold-press connection, space-saving.
10A silver-plated pins, safe and reliable.
Plastic shell, light and convenient



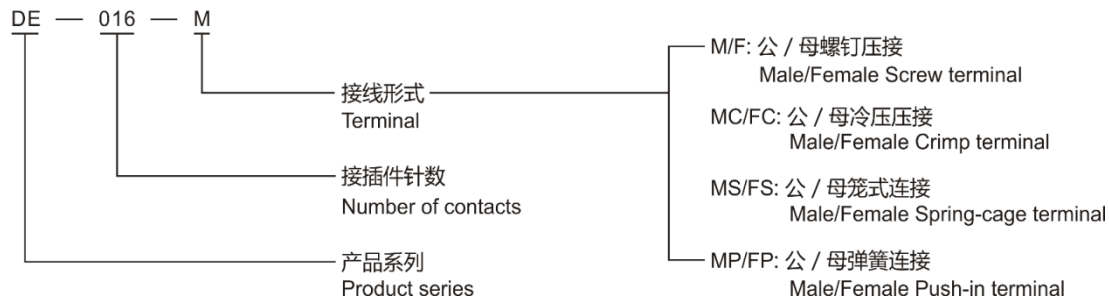
5、 Product Selection elements and advantages



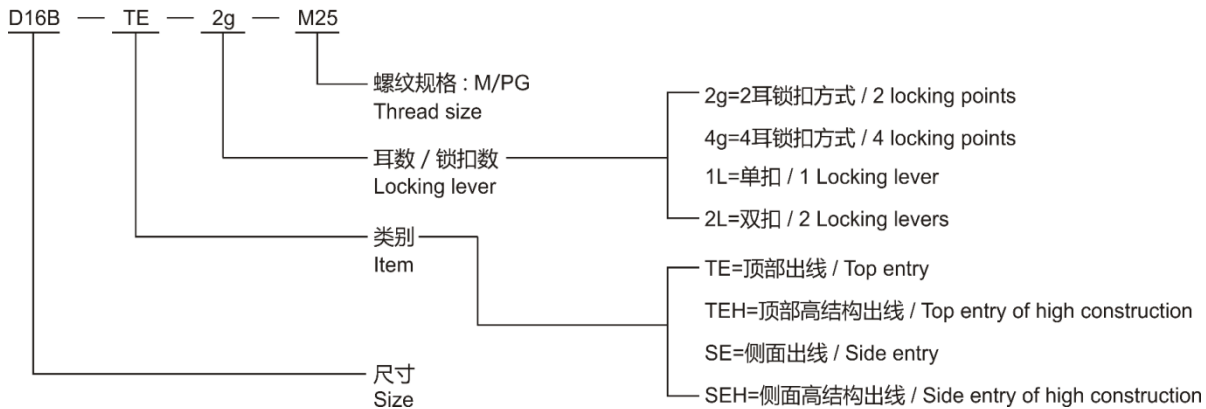
5、 Selection Elements



插体 Inserts



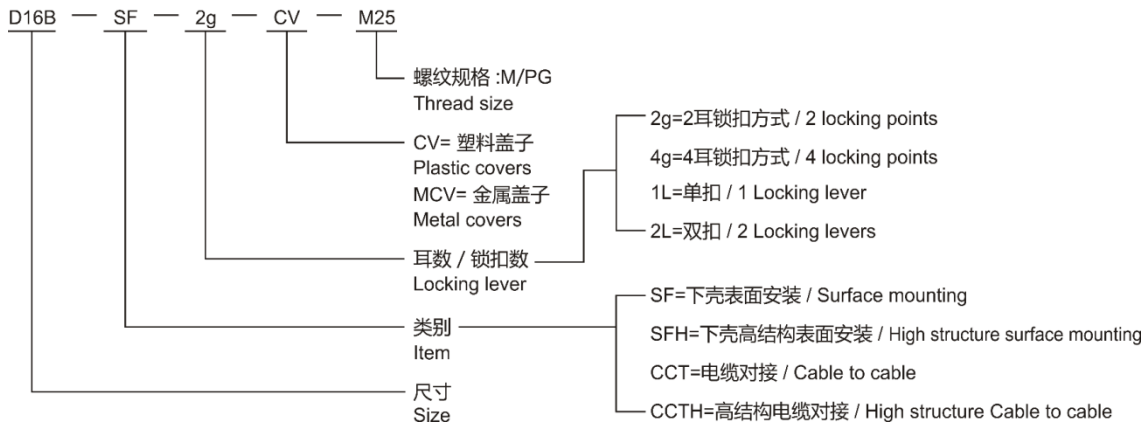
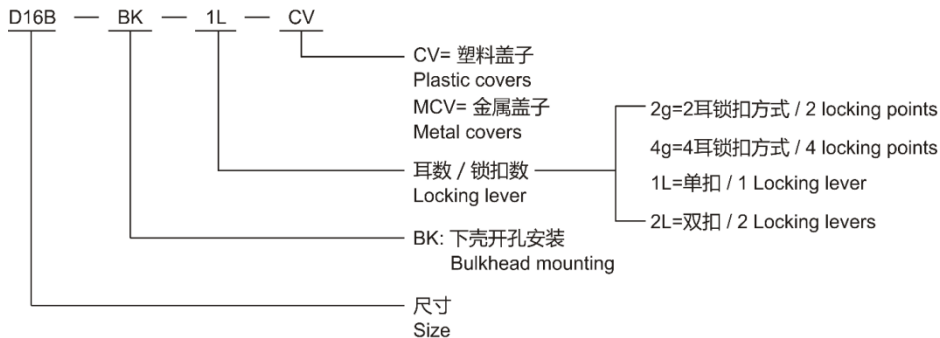
上壳 Hoods



5、 Selection Elements



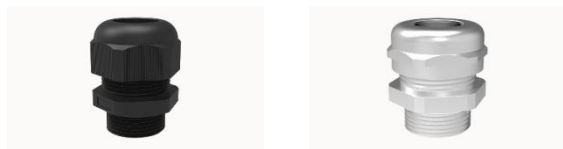
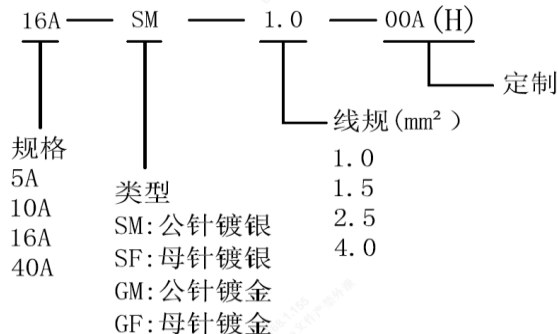
下壳 Housings



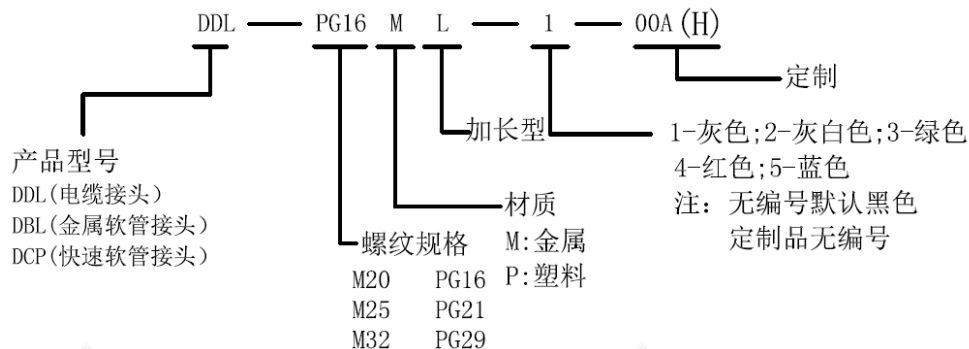
5、 Selection Elements



接插针成品编码说明



电缆接头成品编码说明(套件)

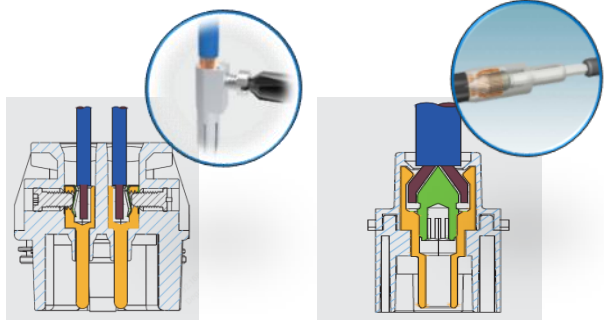


5、 Selection Elements

The following four types of connections include pins and do not require additional pins.

The product naming scheme ends with "M/MS/MP and F/FS/FP".

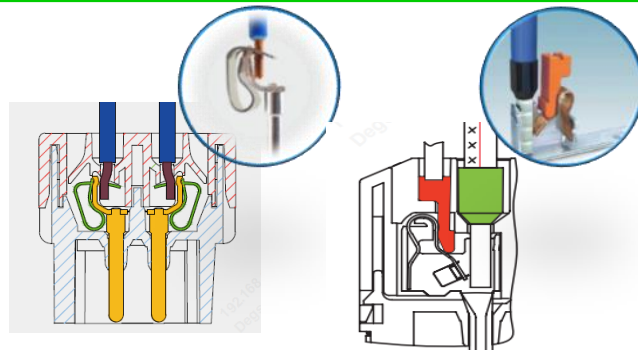
Screw
connection



General screw
connection
EN 60 999

Axial Bolt
Connection
EN 60 228

Spring
connection



Cage-spring
connection
IEC60947
EN 60715

Push-in
connection
EN 60715

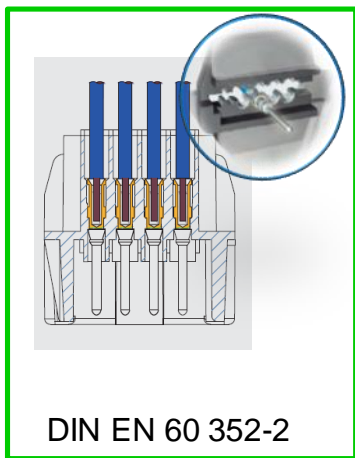


5、 Selection Elements

Crimp connectors include pins, additional pins are required.

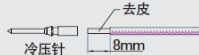
Product nomenclature ends with "MC/FC".

Crimp connection

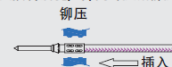


装针步骤

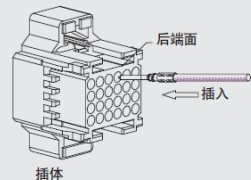
1. 剥去导线绝缘层, 参考剥线长度8mm ;



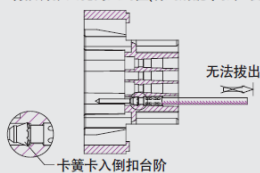
2. 将导线插入插针后孔, 并用冷压钳铆压 ;



3. 从插体后端面, 将插针顺着插孔插入插体 ;

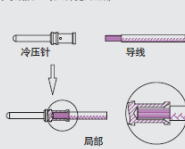


4. 将插针推入孔内至到位(听到清脆卡扣声表示插入到位).



冷压针压接

1. 将导线插入冷压针孔内底部

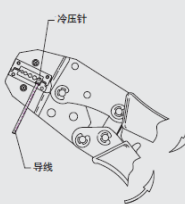


注意: 针孔与导线必须匹配, 否则有可能导致装线困难或压线不紧.

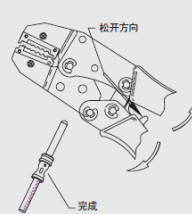
2. 将插针插入合适的钳口



3. 压紧



4. 松开冷压钳去除冷压针



注意事项: 冷压压接的工具关系到产品的质量稳定性, 请选择我司认证的工具.

工具 Tools



Crimping tool
Wire gauge: TL10.14-4.0mm²
Order NO: TL1-4.0



Removal tool (10A)
Matching: DD, DDD, DM
Order NO: RT-10A

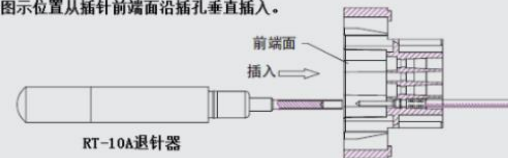


Removal tool (16A)
Matching: DEE, DM
Order NO: RT-16A



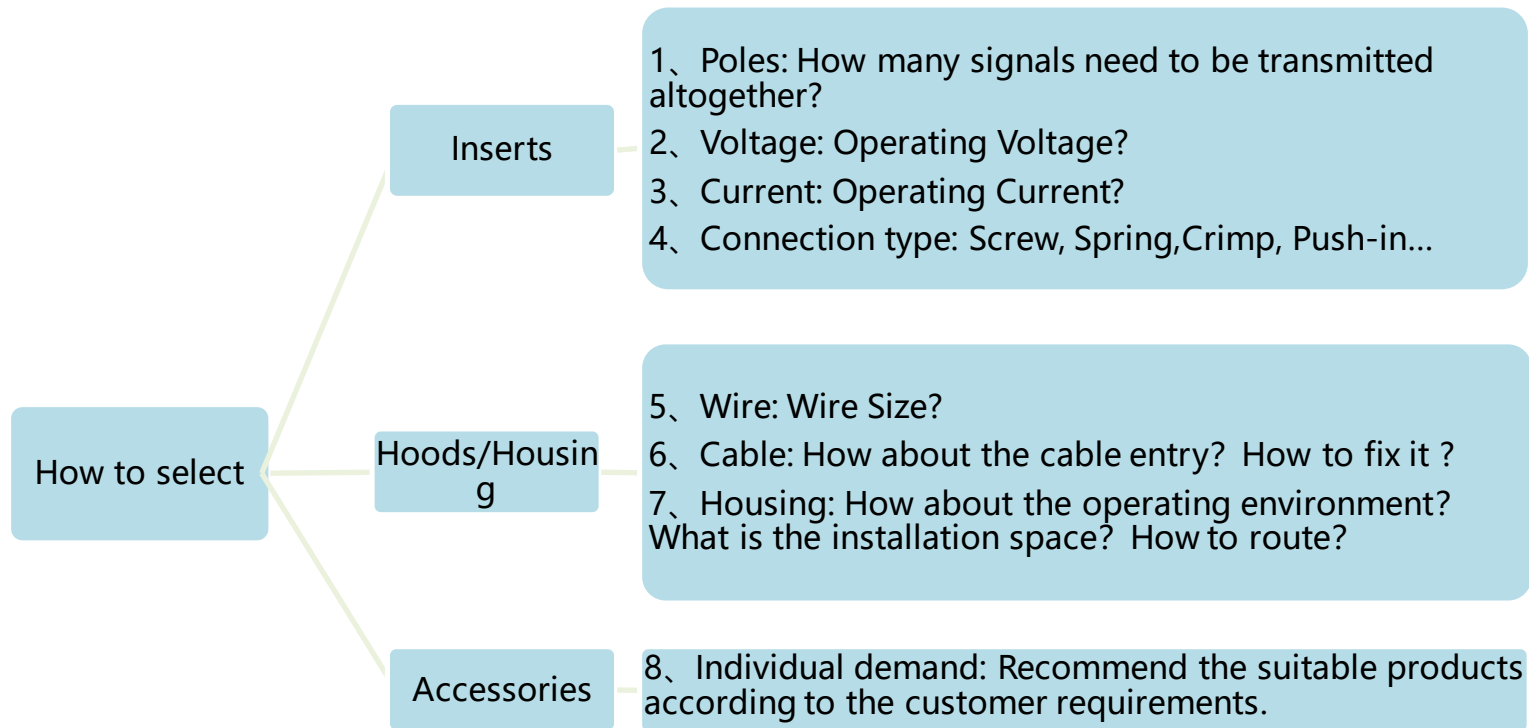
Removal tool (40A)
Matching: DM
Order NO: RT-40A

将RT-10A退针器沿图示位置从插针前端面沿插孔垂直插入。



5、 Selection Elements



 Selection Handbook

5. Advantages of degson (QCDST)

No.	aspect	Advantages-contrast to domestic low-end competitors	Advantages-contrast to international high-end competitors	solution
1	Quality	<ul style="list-style-type: none"> Consistent quality stability, 80% products are achieved automatic assembly; Complete quality control system; Customize the different quality schemes according to customers' special requirements. 	<ul style="list-style-type: none"> Perfect quality control points (form control key points through market feedback) Strong quality control ability (familiar with customer application scenarios and rich experience in dealing with problems) Sufficient market verification (involving a wide range of industries and a large market share) 	<ul style="list-style-type: none"> Quality close to international brands
2	Price	<ul style="list-style-type: none"> According to the brand positioning, the price is slightly higher than the domestic low-end competitors; The production and operation cost of products is higher than the domestic low-end competitors. 	<ul style="list-style-type: none"> Flexible price (Familiar with competitive products, have universal and upgraded products meet different requirements) Excellent cost control (fully automated production) 	
3	Delivery	<ul style="list-style-type: none"> The product delivery of civil industry is longer than the domestic low-end competitors. 	<ul style="list-style-type: none"> With mature market and stable customer support, a good stock mechanism can be formed Stable application and flexible cargo transfer support 	
4	Service	<ul style="list-style-type: none"> Fast response to value-added service; Professional customized service team (sales, PM, technical engineer). 	<ul style="list-style-type: none"> Fast response to value-added service; Professional customized service team (sales, PM, technical engineer). 	
5	Technology	<ul style="list-style-type: none"> Patent evasion (no patent conflict) 80% products of mainstream competitors can be completely replaced. 	<ul style="list-style-type: none"> Patent evasion (no patent conflict) 80% products of mainstream competitors can be completely replaced. 	

6、 Competitors Analysis



6、Competitor

Competitor	Headquarters	Product start	Industries	Features
HARTING	Germany	1956年	Wind power, rail transit, industrial robots, automobiles	Industry benchmark, complete product line and certification, high brand awareness, high price
Wayne	Xia men	2005年	Construction Machinery, Electric Power, Industrial Robots, Rail Transit	The product line certification is relatively complete, the domestic brand awareness is relatively high, and the corresponding accessories are complete
TE (西霸士)	Xia me n	1998年	Construction machinery, rail transit, industrial robots	As the earliest private enterprise in China, its market share once occupied the top three in China, with a complete product line, and all customers are concentrated in machinery, electric power, elevator and other industries
Phoenix	Germany	2006年	Electricity, wind power	Relying on its high brand influence and power customer base, it has won a good share in many domestic and foreign power projects.





THANK YOU!
