



DB FASTENERS
Helping make the right connections

邓肯勃中国

Product Catalog

The People You Call When You Have Fastening Challenges

当您遇到紧固件问题时，就会想到我们

综合型录



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Overview

公司概况

A company founded based on North American customer service values

一个来自北美的紧固件企业，聚焦服务

A company dedicated to knowledge and understanding of fasteners and related products

一个知识型企业，更加了解紧固件及相关知识的公司

A company dedicated to following the rules and regulations like FCPA, ROHS, REACH

一个合规企业，始终遵守规则和法规，例如FCPA, ROHS, REACH

Mission

使命

DB Fastener's mission is to add excellent customer service to our vendors quality products

凭借服务助力合作伙伴成就卓越

Vision

愿景

The People You Call When You Have Fastening Challenges

当您遇到紧固件问题的时候，就会想到我们

Core Values

核心价值

Integrity, Professionalism, Helpfulness

正直，专业，增益

What can we provide?

我们能提供什么？

Genuine brand name parts for peace of mind in safety critical applications.

真正的品牌件，在安全关键的应用中让您无忧

Tailored fastening solutions for special applications.

定制化的紧固方案

On-site installation training and quality resolution to keep your production on schedule.

现场服务，确保生产按时进行



ARaymond[®]
MORE THAN FASTENING

Cable & Tube Fasteners
线束及管路紧固件
Panel Fasteners
面板与内外饰紧固件
Threaded Fasteners & Retainers
螺纹螺母和弹片螺母

HUCK

Lock Bolts
环槽铆钉
Structural Blind Rivet
结构盲拉铆钉
Tooling
工具

AVK

Blind nuts
盲拉铆螺母
Blind studs
盲拉铆螺柱
Tooling
工具

R ROTOR CLIP

Retaining Rings
止动环
Wave Springs
波形弹簧
Hose Clamps
卡箍

NORD-LOCK
GROUP

Washer
防松垫圈
Superbolt
超级螺栓
Expander
膨胀销系统
Boltight
液压拉伸系统

applied bolting
TECHNOLOGY

DTI
压力指示垫片

ARaymond[®]
MORE THAN FASTENING
TINERMAN

ON Flat Surfaces
固定于平面
ON/TO Cables or Tubes
固定线/管
IN Panel Holes
固定于孔

caplugs

Caps
盖
Plugs
塞



Industry and Applications

行业及应用

Automotive

汽车



Threaded Fasteners & Retainers
螺纹螺母和弹片螺母



Cable & Tube Fasteners
线束及管路紧固件



Panel & Trim Fasteners
面板与内外饰紧固件



Shaft & Linkage Fasteners
模块化连接杆



Protecting & Finishing
后备箱及引擎盖间隙调节器



Remarks: ARaymond's Part number is generally composed of 9 digits. The main number is composed of the first 6 digits, and the last 3 digits indicate the surface treatment and color requirement. For further information, please scan the QR code or conduct a direct search of the first 6 digits.

备注：阿雷蒙的物料号是由9位数字组成，前6位数字为主料号，最后3位数字表示物料的表面处理等信息。料号查询可扫描二维码，输入6位数字的主料号即可搜索。





ARaymond[®]
MORE THAN FASTENING



Preferred in Automotive 典型汽车产品

Carpet 地毯推钉/树钉

Overhead Systems 顶棚及附件

C,D Pillar Trims C,D柱内饰护板

Door Panels 车门内饰护板

Seat Components 座椅

Cockpits 仪表台

Lock Systems 门锁系统

Isolation Systems 座舱隔板衣帽架

Central Consoles 中控

Loud Speakers 音箱

Front/Rear Bumpers 前后保险杠

Underbody Protection Covers 底盘下护盖

Wheel Housing 轮罩挡板

Car Bonnets 车头盖

Lighting 车灯





A-1
Threaded Fasteners & Retainers
螺纹螺母和弹片螺母



For further information,
please scan the QR code.
详细信息请扫描二维码





A-2
Threaded Fasteners & Retainers
螺纹螺母和弹片螺母

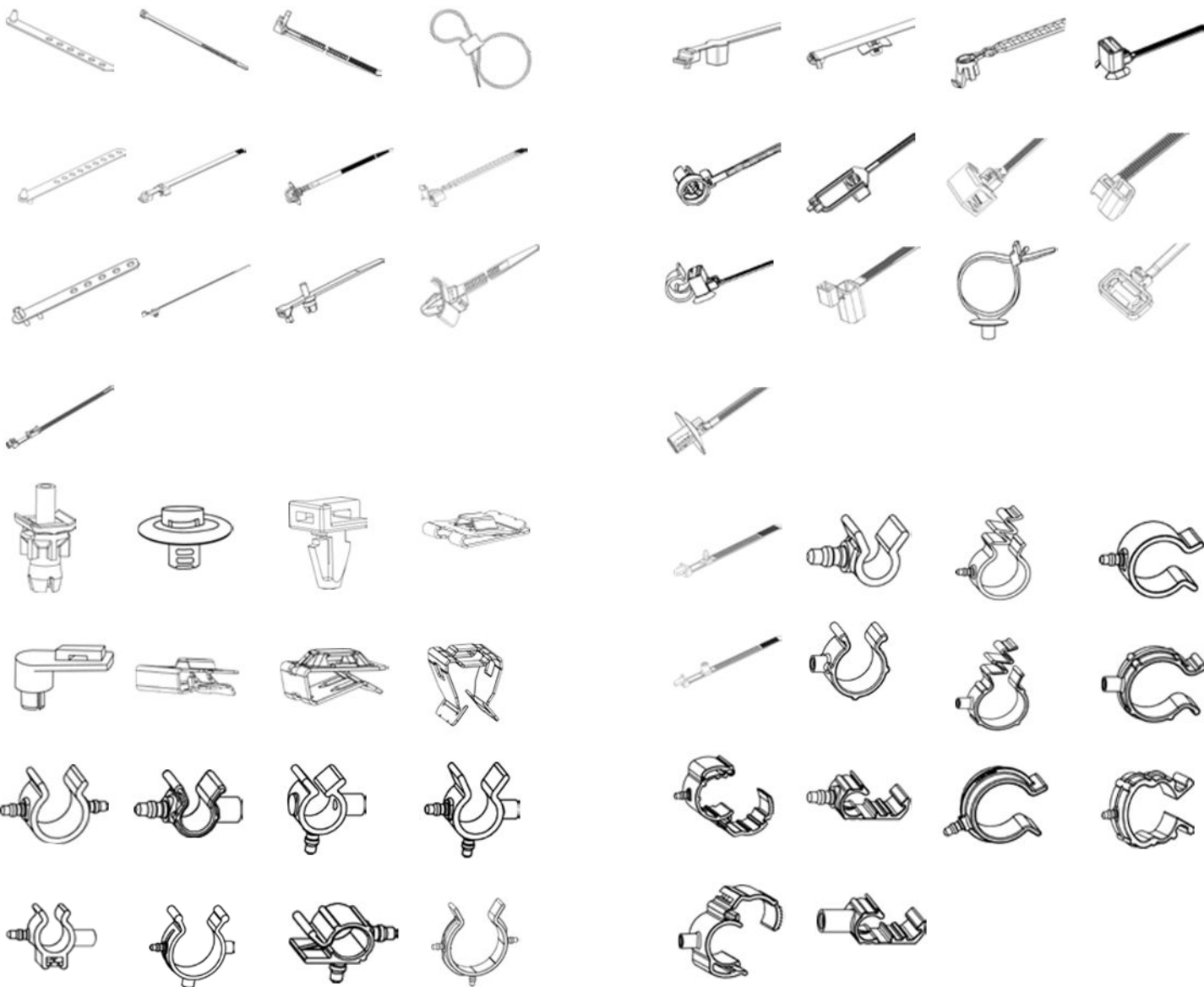


For further information,
please scan the QR code.
详细信息请扫描二维码





B-1
Cable & Tube Fasteners
线束及管路紧固件

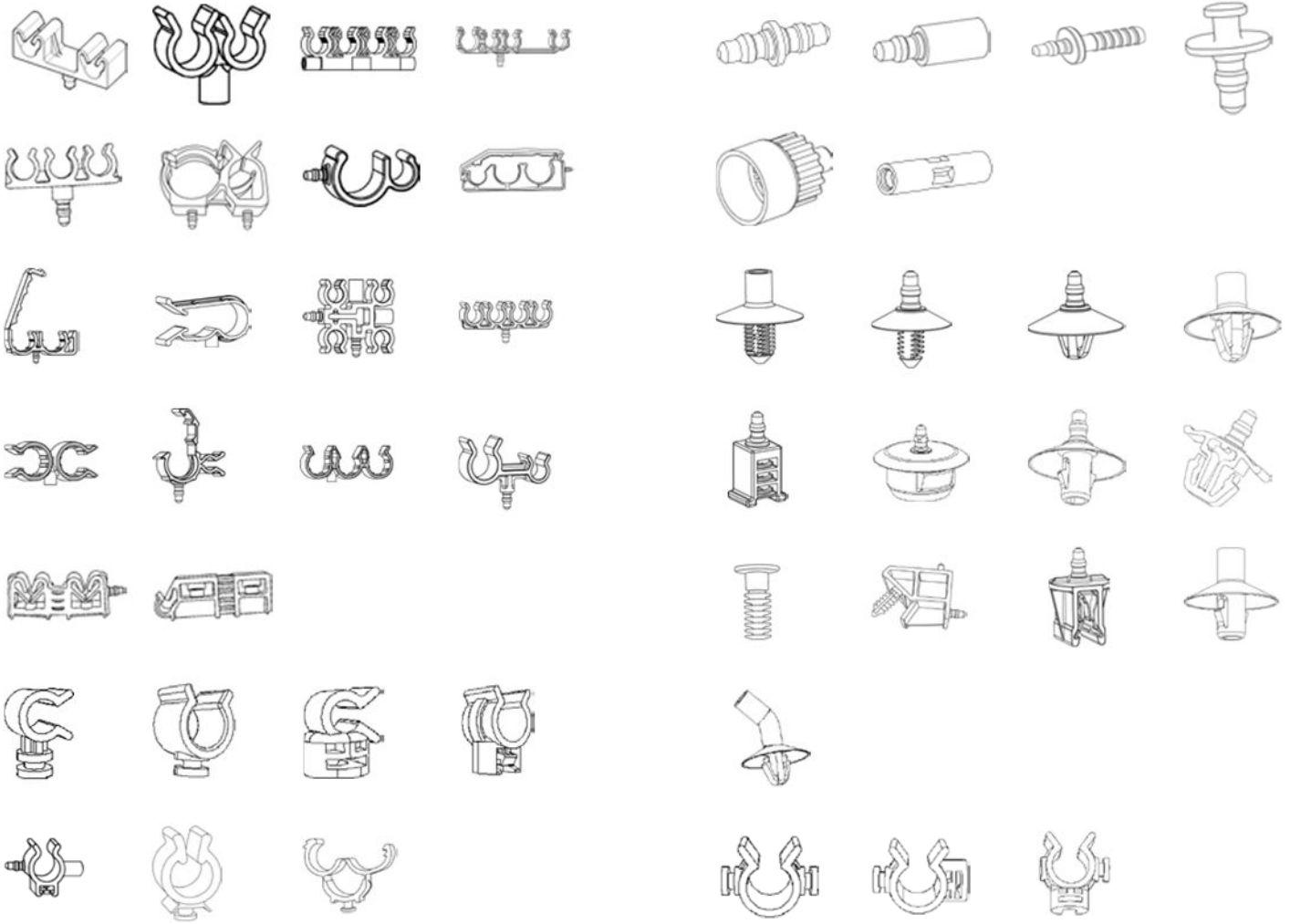


For further information,
please scan the QR code.
详细信息请扫描二维码





B-2
Cable & Tube Fasteners
线束及管路紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





B-3
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-4
 Cable & Tube Fasteners
 线束及管路紧固件



For further information,
 please scan the QR code.
 详细信息请扫描二维码





B-5
 Cable & Tube Fasteners
 线束及管路紧固件



For further information,
 please scan the QR code.
 详细信息请扫描二维码





B-6
Cable & Tube Fasteners
线束及管路紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





B-7
Cable & Tube Fasteners
线束及管路紧固件

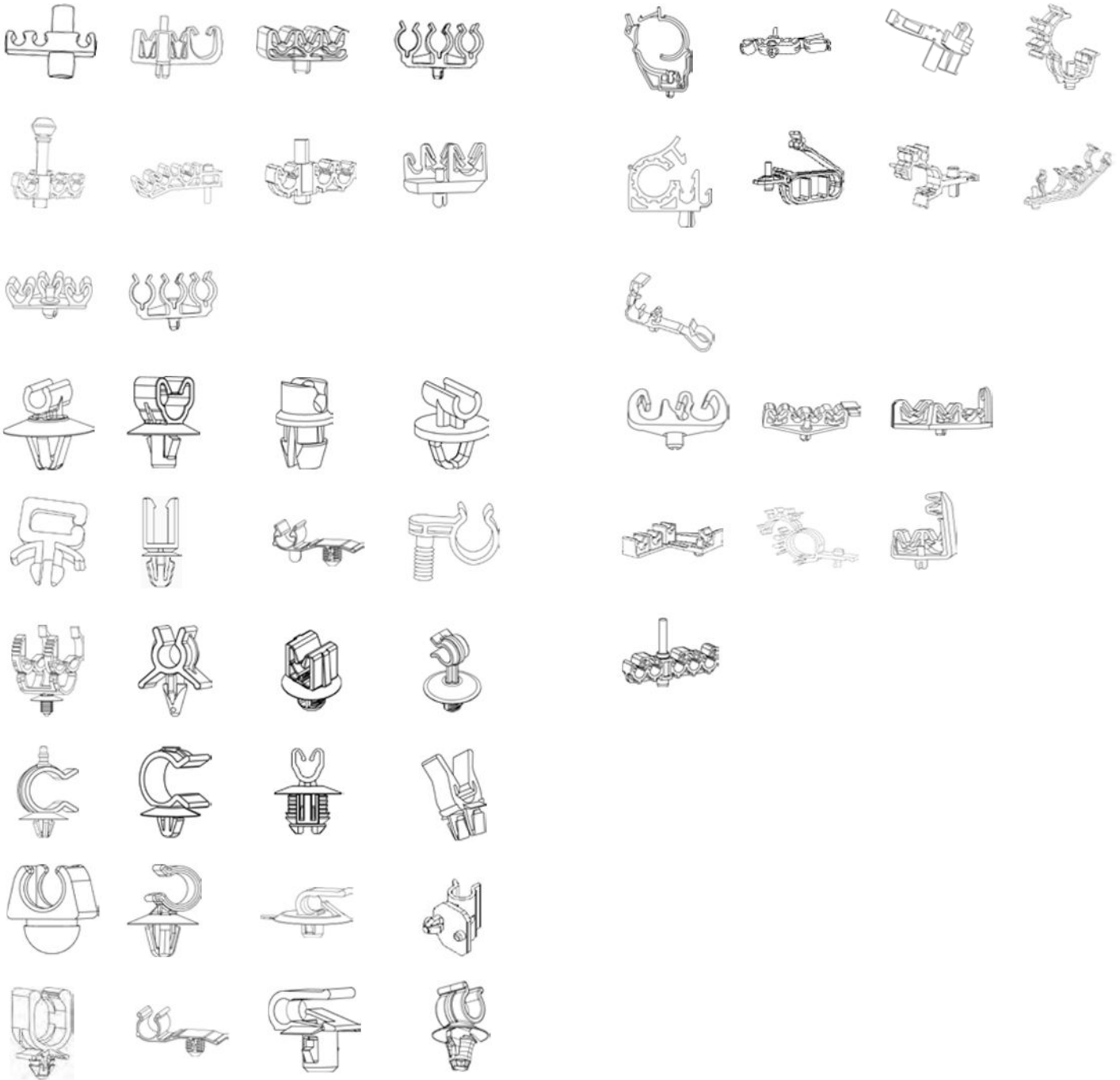


For further information,
please scan the QR code.
详细信息请扫描二维码





B-8
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-9
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-10
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-11
Cable & Tube Fasteners
线束及管路紧固件

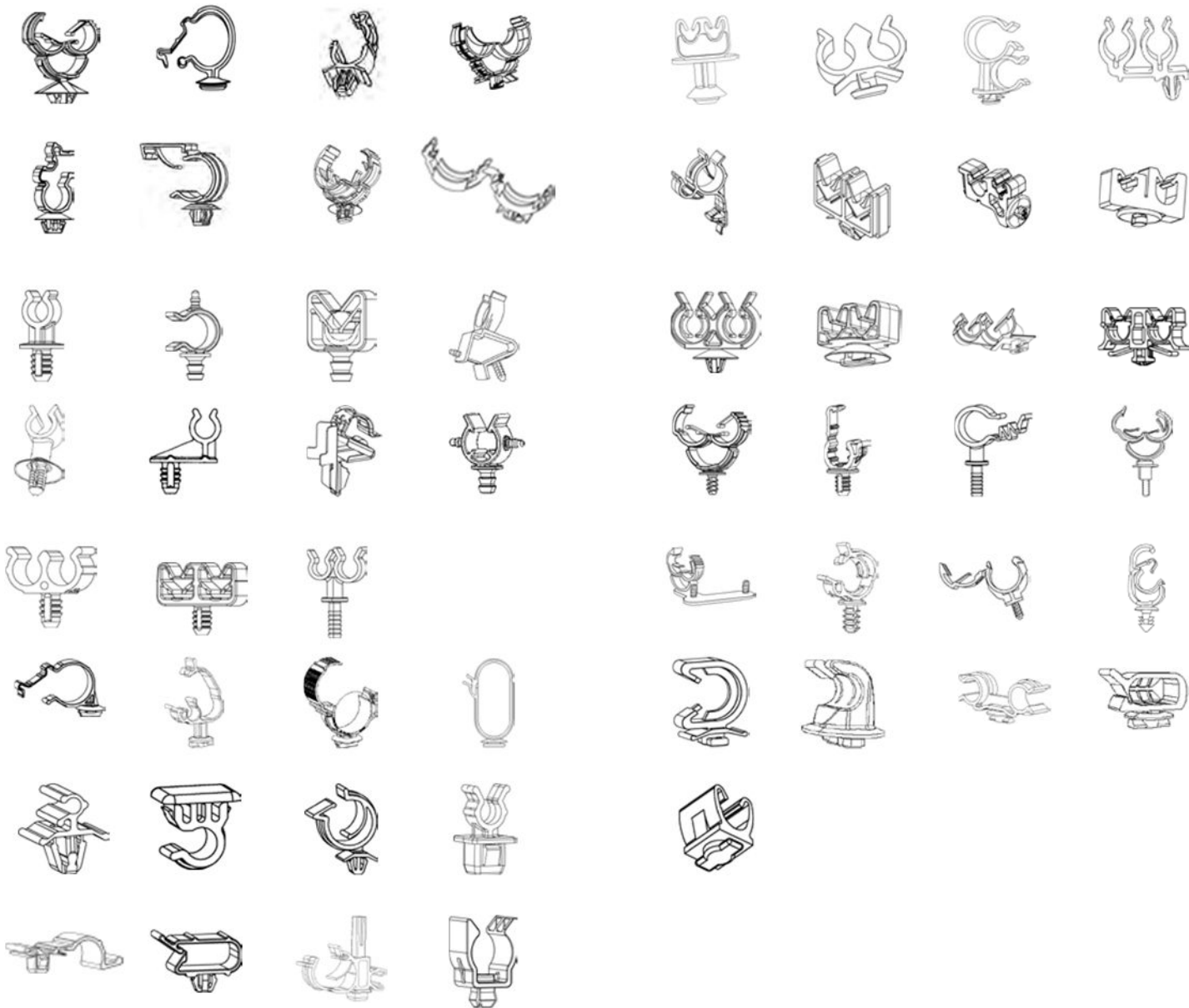


For further information,
please scan the QR code.
详细信息请扫描二维码





B-12
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-13
Cable & Tube Fasteners
线束及管路紧固件

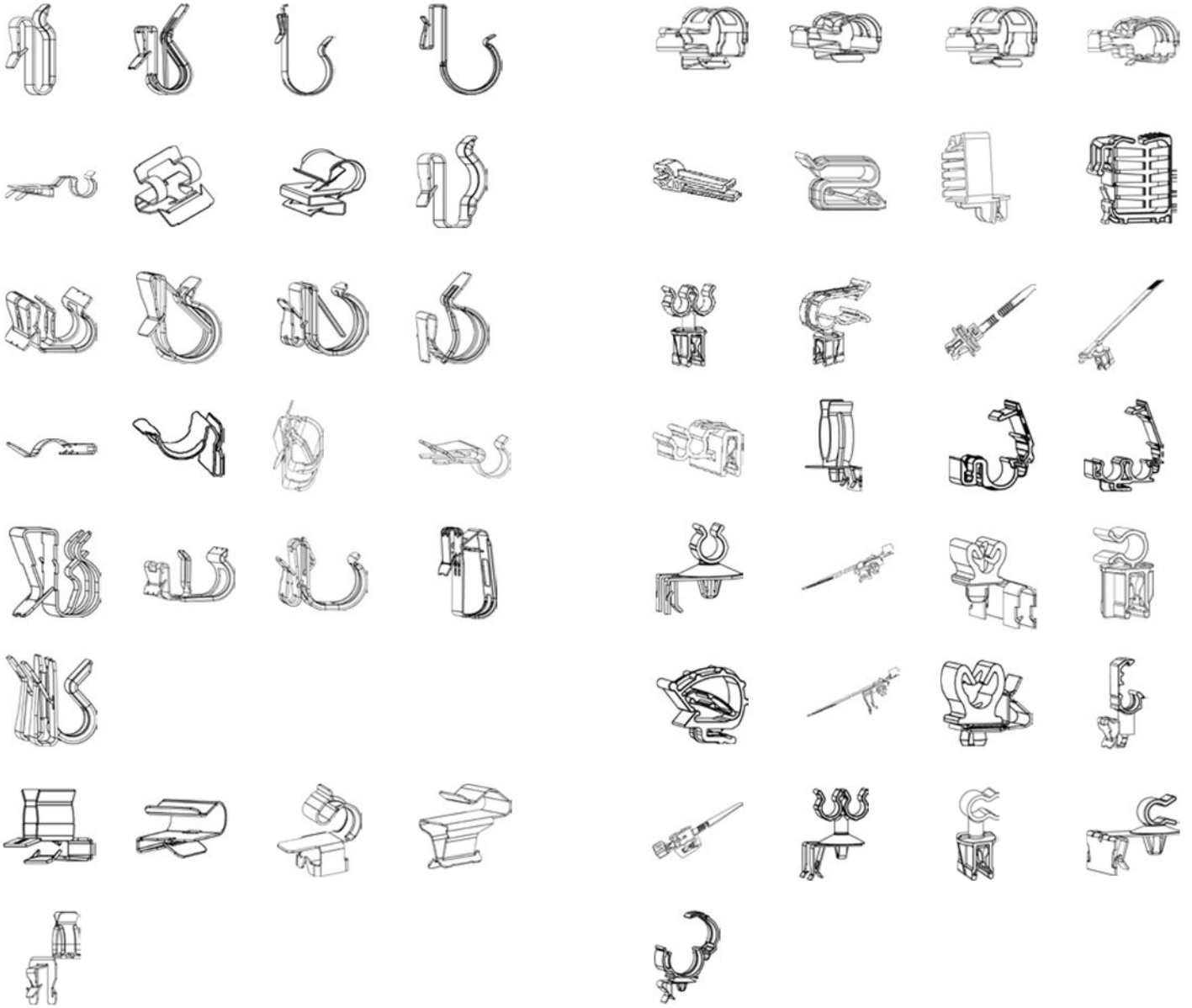


For further information,
please scan the QR code.
详细信息请扫描二维码





B-14
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-15
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-16
Cable & Tube Fasteners
线束及管路紧固件



For further information,
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详细信息请扫描二维码





B-17
Cable & Tube Fasteners
线束及管路紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





B-18
Cable & Tube Fasteners
线束及管路紧固件

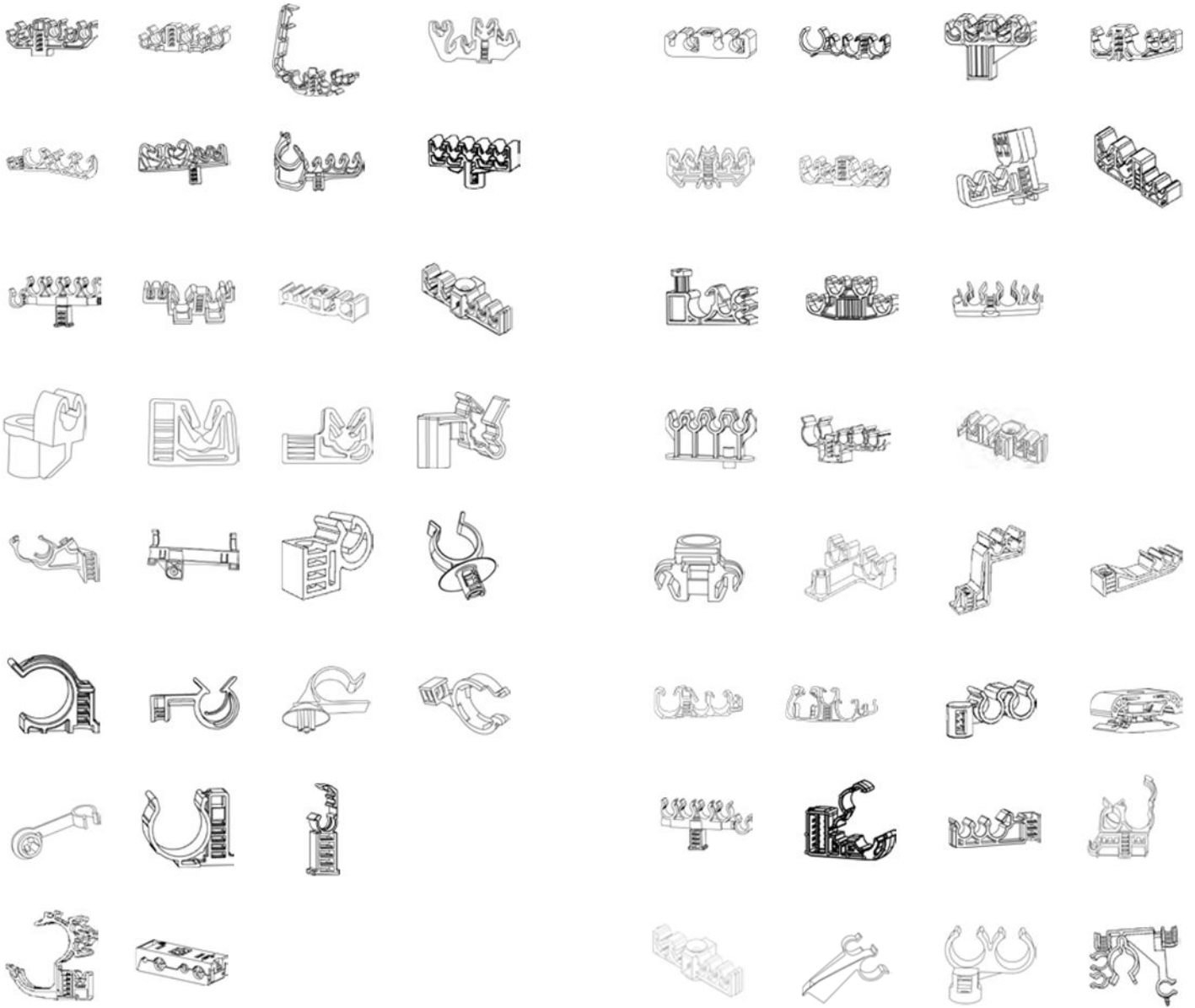


For further information,
please scan the QR code.
详细信息请扫描二维码





B-19
Cable & Tube Fasteners
线束及管路紧固件

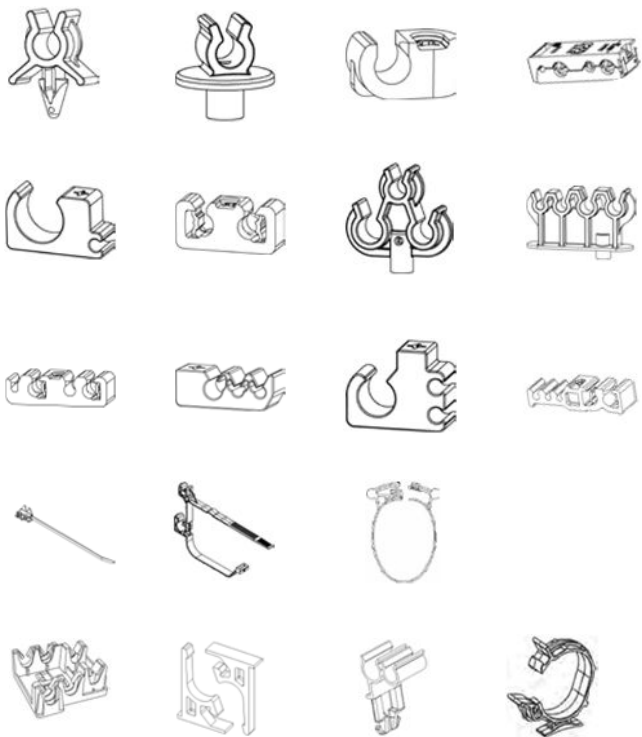


For further information,
please scan the QR code.
详细信息请扫描二维码





B-20
Cable & Tube Fasteners
线束及管路紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





C-1
Panel Fasteners
面板与内外饰紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





C-2
Panel Fasteners
面板与内外饰紧固件

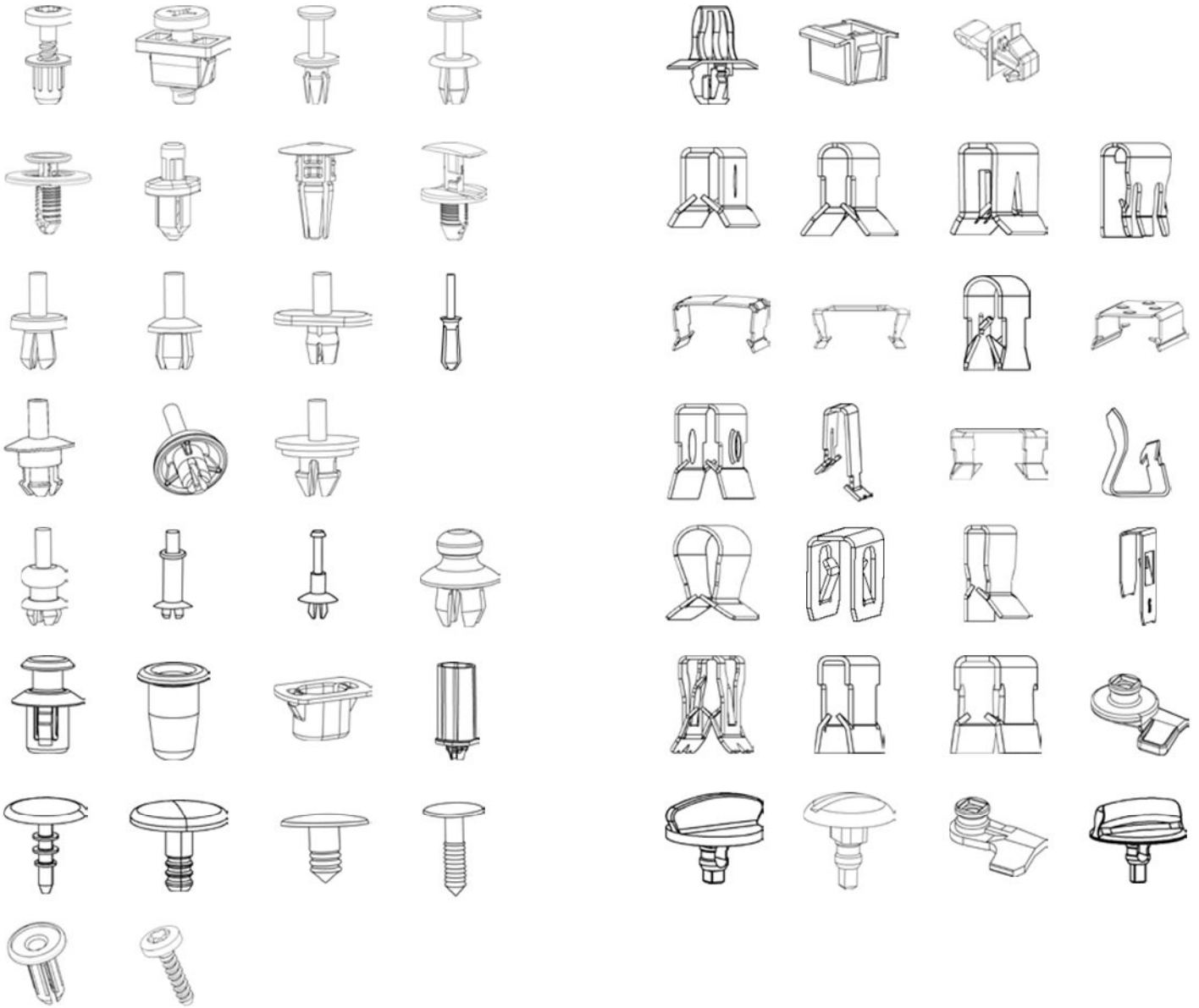


For further information,
please scan the QR code.
详细信息请扫描二维码





C-3
Panel Fasteners
面板与内外饰紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





C-4
Panel Fasteners
面板与内外饰紧固件

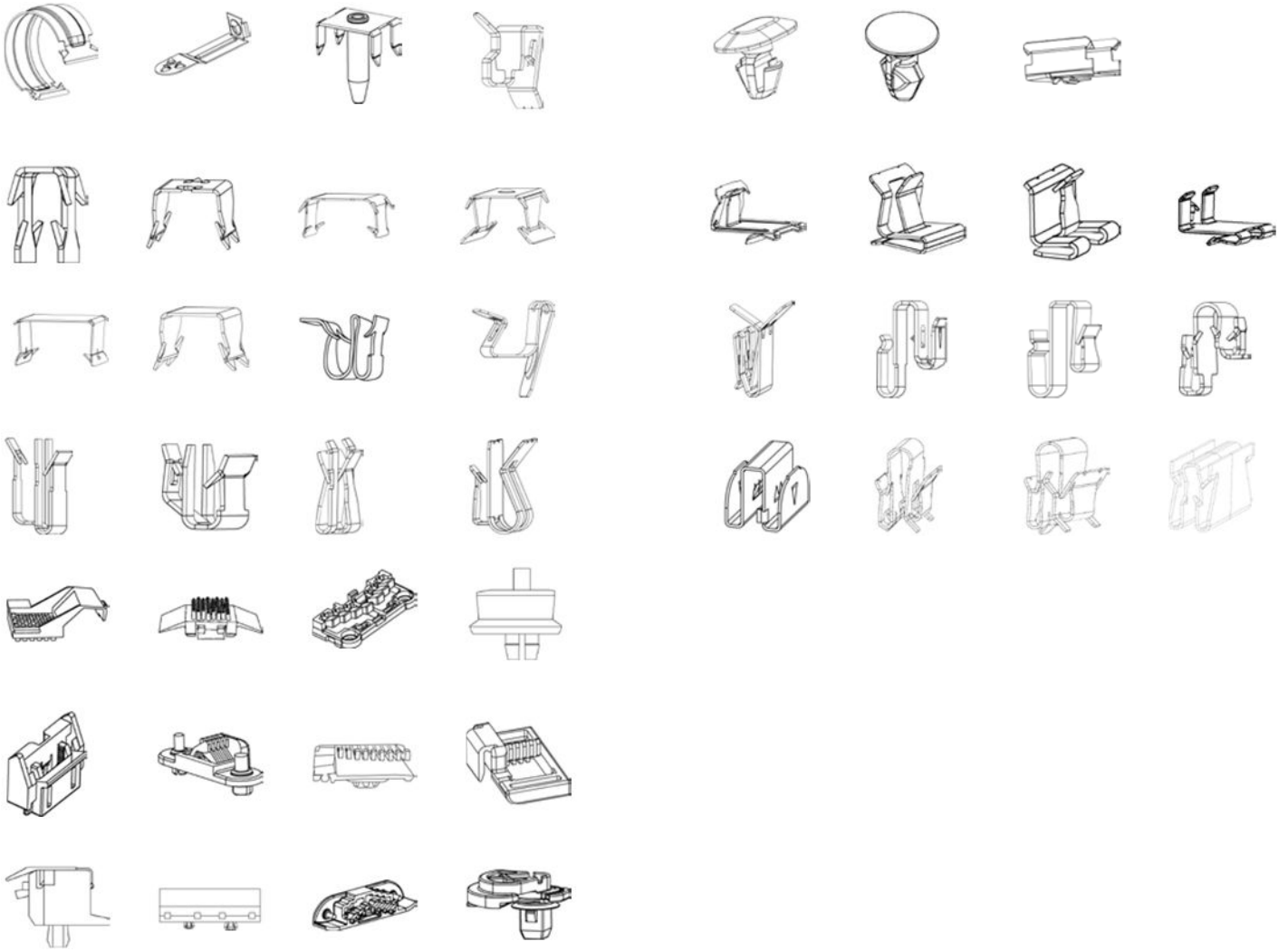


For further information,
please scan the QR code.
详细信息请扫描二维码





C-5
Panel Fasteners
面板与内外饰紧固件

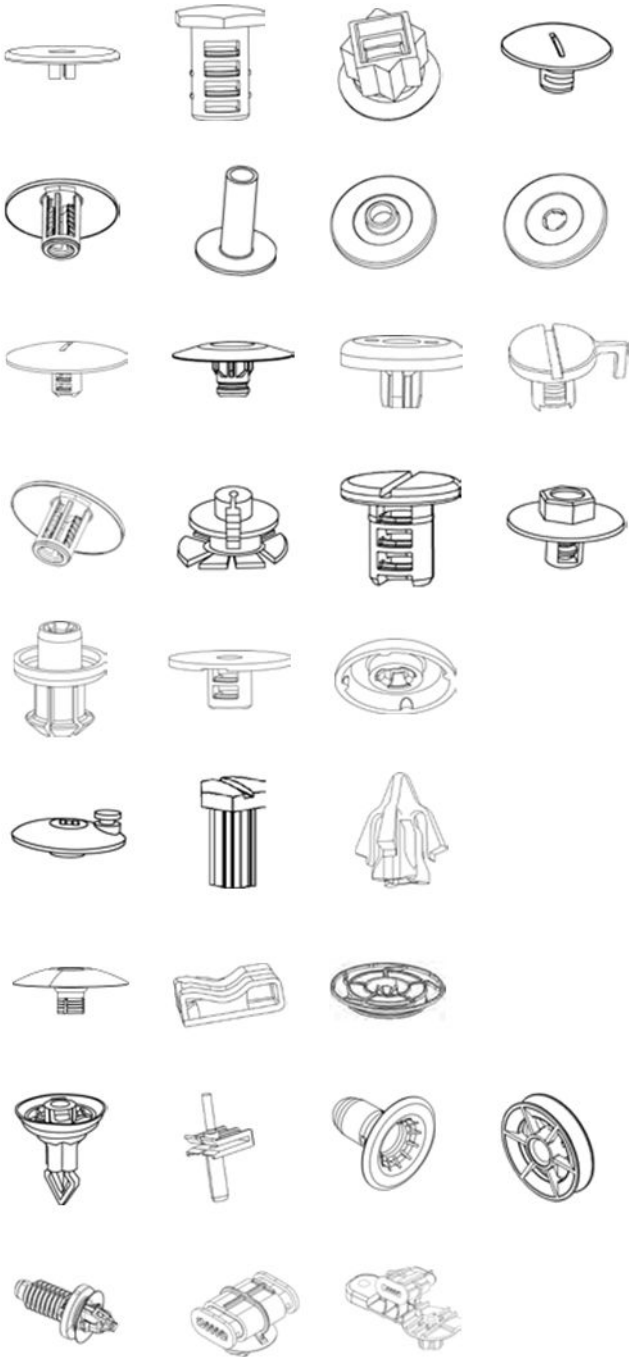


For further information,
please scan the QR code.
详细信息请扫描二维码





C-6
Panel Fasteners
面板与内外饰紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码





D
Moulding & Trim Fasteners
饰件紧固件

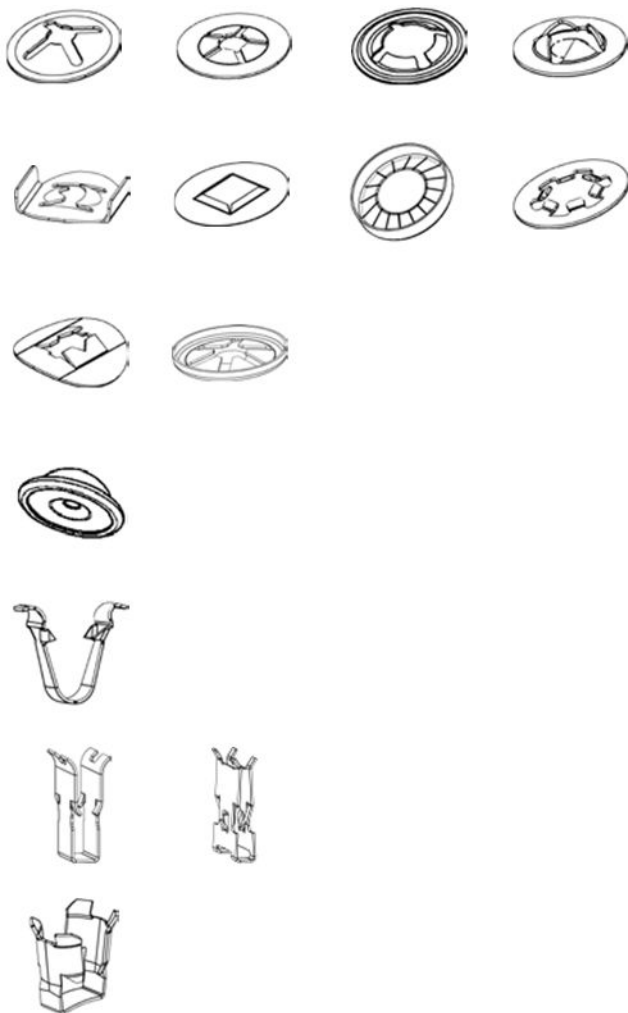
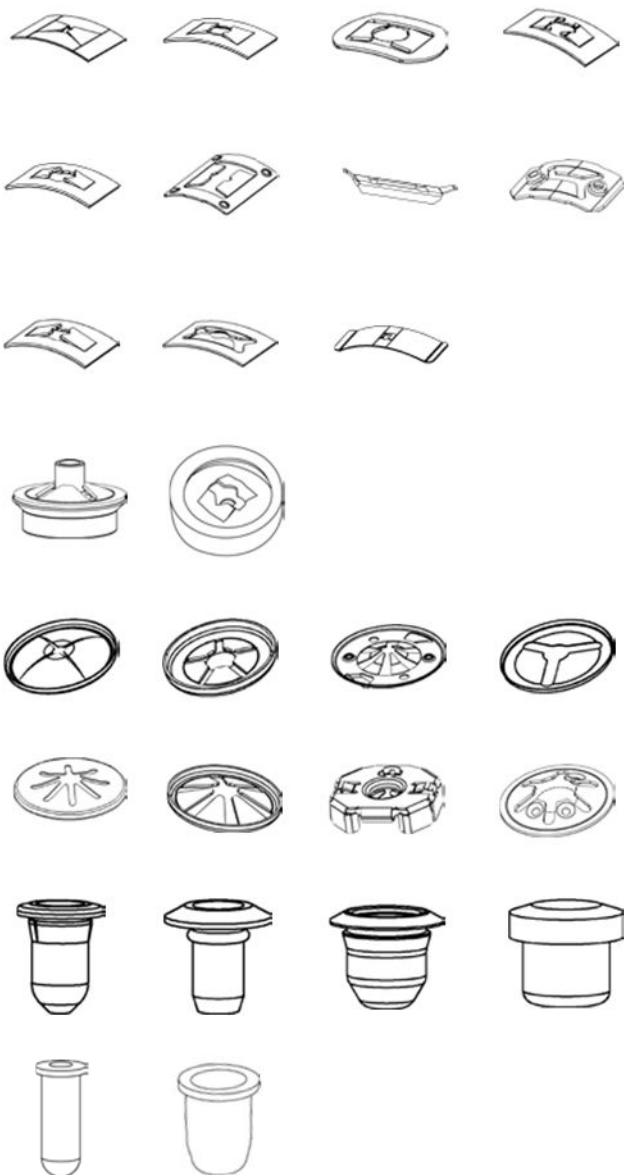


For further information,
please scan the QR code.
详细信息请扫描二维码





E
Fasteners For Smooth Pins
可卡在光柱上的紧固件



For further information,
please scan the QR code.
详细信息请扫描二维码

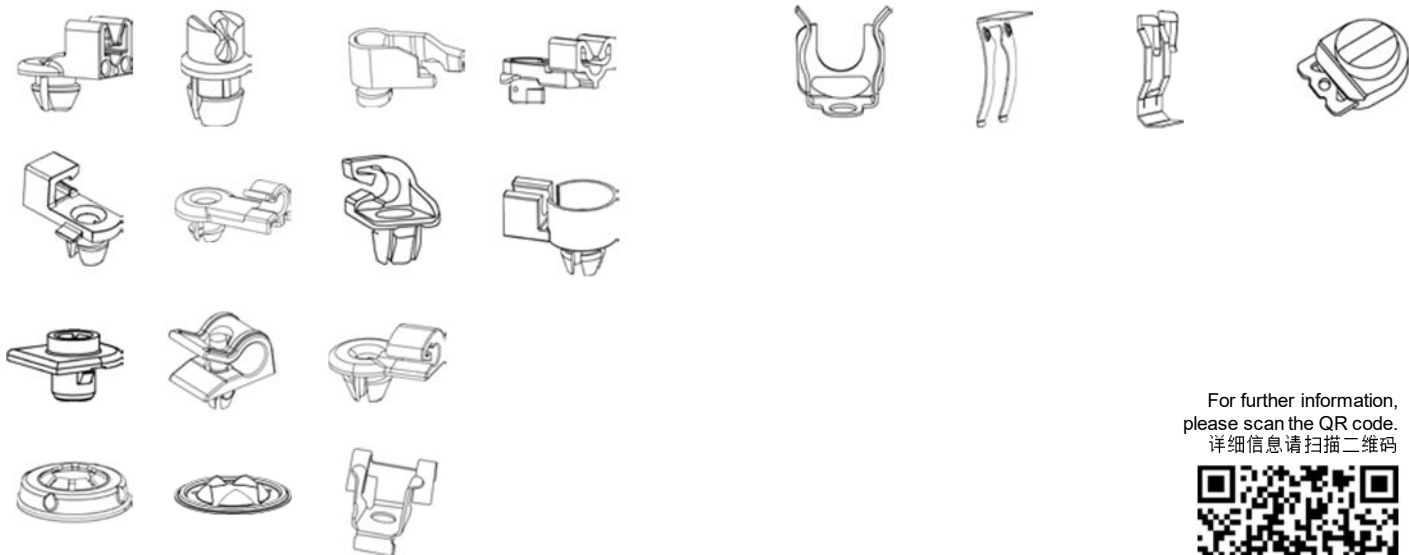




F
Plug Buttons / Grommets
按入式堵塞和锁环



G
Fasteners for Linkage Assembly
连杆总成专用紧固件

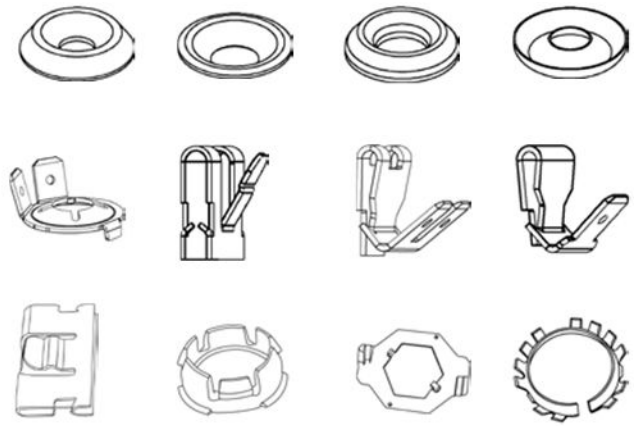
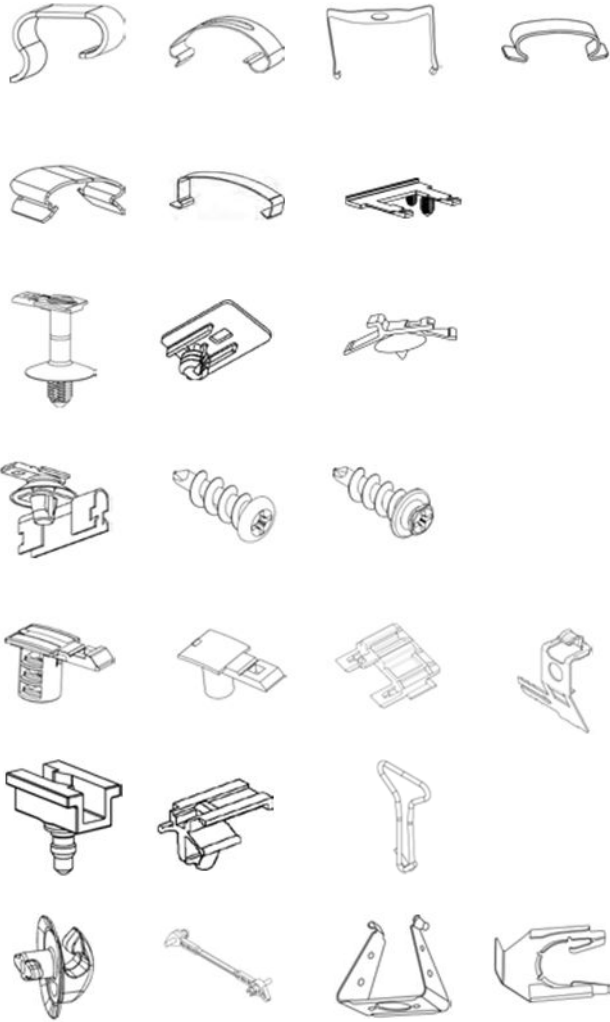


For further information,
please scan the QR code.
详细信息请扫描二维码

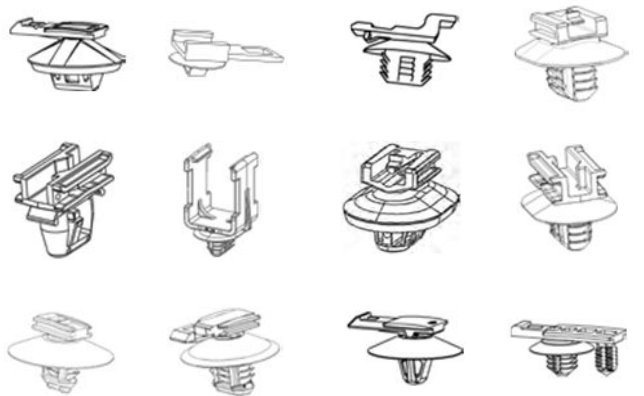




Z
Special Design Fasteners
特别设计的紧固件

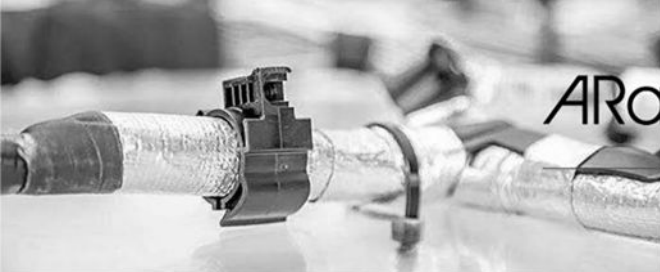


Connector Holder
接插件卡扣



For further information,
please scan the QR code.
详细信息请扫描二维码





ARaymond

MORE THAN FASTENING

TINNERMAN



General Industry

一般工业



Part Number	Thread Specification	Panel Thickness (F)	Throat Distance (A)	Hole Diameter (R)	Width (b)	Length (l)
138337	8-32	0.020 - 0.079	0.383	0.280 - 0.280	0.492	0.681
138347	10-32	0.070 - 0.100	0.27	0.260 - 0.260	0.51	0.6
138332	2001-4-20	0.025 - 0.150	0.45	0.390 - 0.390	0.56	0.92
138334	5/16-18	0.025 - 0.150	0.5	0.437 - 0.437	0.67	0.98
138333	2003-8-16	0.050 - 0.200	0.66	0.562 - 0.562	0.93	1.29
Metric						
135211	ST4.2 (8-18)	2.00 - 3.00	8.6	7.93 - 7.93	12.5	16.9
138056	ST4.2 (8-18)	0.50 - 2.00	9.1	7.93 - 7.93	12.5	17.3
138280	ST4.2 (8-18)	0.65 - 3.80	14	7.55 - 7.55	12.5	22

White Goods 白色家电



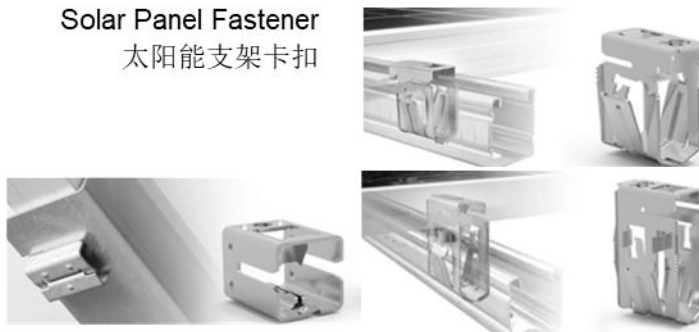
Solar 太阳能

Grounding Clips 太阳接地线卡扣

220492000 / 220492006
FRAME THICKNESSES 1.5 to 2.5 mm
WIRE SPECIFICATIONS 6mm²



Solar Panel Fastener 太阳能支架卡扣



Remarks: ARaymond-Tinnerman's Part number is generally composed of 9 digits. The main number is composed of the first 6 digits, and the last 3 digits indicate the surface treatment and color requirement. For further information, please scan the QR code or conduct a direct search of the first 6 digits.

备注: Tinnerman的物料号一般是由9位数字组成, 前6位数字为主料号, 最后3位数字表示物料的表面处理等信息。料号查询可扫描二维码, 输入6位数字的主料号即可搜索。

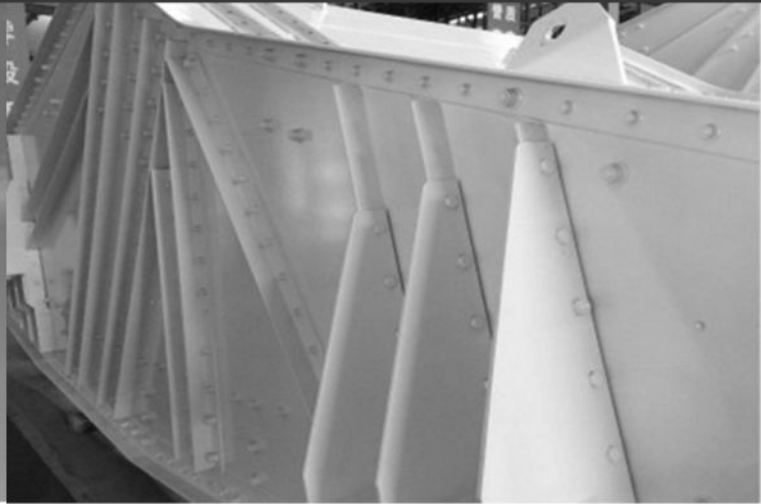


tinnerman.dbfasteners.cn



ARCONIC

HUCK



Blind Rivets by Huck 盲拉铆钉

BOM



Magna-Bulb



Auto-Bulb



Lock Bolts 环槽铆钉

Bobtail



C50L



C6L



Magna-Grip



Magna-Lok



Tooling Maintenance and Rental 工具维护及出租



Unlike conventional nuts and bolts, HuckBolts® and structural blind rivets are the result of advanced engineering and manufacturing processes.

Not Just Manufactured.

不仅仅是制造

与传统的螺母和螺栓不同，HuckBolts®和结构盲铆钉是先进工程和制造过程的结果。



huck.dbfasteners.cn



ARCONIC

HUCK

PREFERRED PRODUCTS

Grip tables

铁路常用铆钉夹紧范围数据表 (mm)

Railway & Subway 铁路和地铁

Grip No. 夹紧范围代号	C6L(-)()6-(★)	C50L(-)()20-(★)	MGL(-)()6-(★)	MGP(-)()8-(★)	BOM-R6-(★)
2	1.60~4.78	-	-	-	2.36~3.96
3	3.18~6.35	-	-	-	3.99~5.56
4	4.78~7.95	6.35~12.70	1.57~6.86	-	5.59~7.14
5	6.35~9.52	-	-	-	7.16~8.75
6	7.95~11.13	-	2.03~9.53	-	8.76~10.31
7	9.52~12.70	-	5.44~11.09	-	10.34~11.91
8	11.13~14.30	12.70~19.05	-	-	11.94~13.49
9	12.70~15.88	-	-	-	13.51~15.09
10	14.30~17.48	-	8.89~15.88	1.57~15.88	15.11~16.66
11	15.88~19.05	-	-	-	16.69~18.26
12	17.48~20.65	19.05~25.40	-	-	18.29~19.84
20	-	31.75~38.10	-	7.92~31.75	-
E	-	-	1.57~11.10	-	-



Tools & Nose Recommendation

工具及枪头推荐一览表

Part No. 铆钉型号	TOOL 工具	Nose 枪头	Power Source 动力源	
C6L	C6L(-)()6(-)	99-3003	Pneudraulic 气动 (6~7kg/cm2)	
	C6L(-)()8(-)	99-3006		
	C6L(-)()10(-)	2581	99-99-245	Hydraulic 液压 (HK32-002)
C6L(-)()12(-)	2581	99-100-245		
C50L	C50L(-)()20(-)	3585	99-5008	Hydraulic 液压 (HK32-002)
Magna-Lok	MGL(-)()6(-)	2025	99-3303	Pneudraulic 气动 (6~7kg/cm2)
	MGL(-)()8(-)		99-3305	
Magna-Grip	MGP(-)()8(-)	256	99-3207	Hydraulic 液压 (HK32-002)
BOM	BOM-R6(-)	2581	99-1053	
	BOM-R8(-)		99-830-1	
	BOM-R10(-)		99-769	



C50L



BOM



BOM



Magna-Lok



C6L

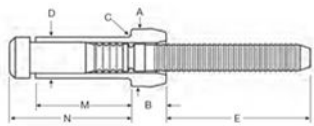
Remarks please scan the QR code, or conduct a direct search of the number and then hit the tooling we recommended.

工具详细信息可扫描二维码，或者直接搜索铆钉料号后点击推荐的工具。



huck.dbfasteners.cn

BOM



Railway & Subway 铁路和地铁

Fastener Dimensions												
Part No.	Diameter	Grip Range	Max Hole Size	A	B	C(max)	D	E(Min)	M (nom)	N (Max)	Typical Shear (lbs)	Typical Tensile (lbs)
BOM-R6-6	3/16"	.345-.406	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.626	0.750	2800	1800
BOM-R6-7	3/16"	.407-.469	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.689	0.812	2800	1800
BOM-R6-8	3/16"	.470-.531	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.751	0.875	2800	1800
BOM-R6-9	3/16"	.532-.594	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.814	0.937	2800	1800
BOM-R6-10	3/16"	.595-.656	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.876	1.000	2800	1800
BOM-R6-11	3/16"	.657-.719	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	0.939	1.062	2800	1800
BOM-R6-12	3/16"	.720-.781	.208-.222	0.276-0.286	0.152-0.168	0.015	0.196-0.206	0.785	1.001	1.125	2800	1800
BOM-R8-6	1/4"	.345-.406	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	0.710	0.875	5100	3250
BOM-R8-7	1/4"	.407-.469	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	0.773	0.938	5100	3250
BOM-R8-8	1/4"	.470-.531	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	0.835	1.000	5100	3250
BOM-R8-9	1/4"	.532-.594	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	0.898	1.063	5100	3250
BOM-R8-10	1/4"	.595-.656	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	0.960	1.125	5100	3250
BOM-R8-11	1/4"	.657-.719	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	1.023	1.188	5100	3250
BOM-R8-12	1/4"	.720-.781	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	1.085	1.250	5100	3250
BOM-R8-13	1/4"	.782-.843	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	1.147	1.313	5100	3250
BOM-R8-14	1/4"	.844-.905	.277-.292	0.368-0.380	0.205-0.225	0.020	0.262-0.275	0.860	1.209	1.375	5100	3250
BOM-R10-6	5/16"	.313-.437	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	0.820	1.000	8050	5200
BOM-R10-8	5/16"	.438-.562	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	0.945	1.125	8050	5200
BOM-R10-10	5/16"	.563-.687	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	1.070	1.250	8050	5200
BOM-R10-12	5/16"	.688-.812	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	1.195	1.375	8050	5200
BOM-R10-14	5/16"	.813-.937	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	1.320	1.500	8050	5200
BOM-R10-16	5/16"	.938-1.062	.348-.368	0.468-0.478	0.266-0.278	0.025	0.332-0.346	1.285	1.445	1.625	8050	5200
BOM-R12-10	3/8"	.563-.687	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.141	1.350	11100	7250
BOM-R12-12	3/8"	.688-.812	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.266	1.475	11100	7250
BOM-R12-14	3/8"	.813-.937	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.391	1.600	11100	7250
BOM-R12-16	3/8"	.938-1.062	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.516	1.725	11100	7250
BOM-R12-18	3/8"	1.063-1.187	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.641	1.850	11100	7250
BOM-R12-20	3/8"	1.188-1.312	.413-.435	0.553-0.563	0.315-0.327	0.030	0.393-0.411	1.230	1.766	1.975	11100	7250
BOM-R16-10	1/2"	.626-.750	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	1.375	1.641	20150	13000
BOM-R16-12	1/2"	.751-.875	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	1.500	1.766	20150	13000
BOM-R16-14	1/2"	.876-1.000	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	1.625	1.891	20150	13000
BOM-R16-16	1/2"	1.001-1.125	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	1.750	2.016	20150	13000
BOM-R16-18	1/2"	1.126-1.250	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	1.875	2.141	20150	13000
BOM-R16-20	1/2"	1.251-1.375	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	2.000	2.266	20150	13000
BOM-R16-22	1/2"	1.376-1.500	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	2.125	2.391	20150	13000
BOM-R16-24	1/2"	1.501-1.625	.546-.581	0.740-0.755	0.415-0.438	0.035	0.529-0.544	1.530	2.250	2.516	20150	13000
BOM-R20-12	5/8"	.751-1.000	.687-.728	0.925-0.941	0.507-0.545	0.040	0.662-0.685	1.710	1.713	2.031	28500	20500
BOM-R20-16	5/8"	1.001-1.250	.687-.728	0.925-0.941	0.507-0.545	0.040	0.662-0.685	1.710	1.963	2.281	28500	20500
BOM-R20-20	5/8"	1.251-1.500	.687-.728	0.925-0.941	0.507-0.545	0.040	0.662-0.685	1.710	2.213	2.531	28500	20500
BOM-R24-16	3/4"	1.001-1.250	.828-.873	1.110-1.130	0.637-0.654	0.050	0.795-0.816	2.150	2.130	2.500	45100	29100
BOM-R24-20	3/4"	1.251-1.500	.828-.873	1.110-1.130	0.637-0.654	0.050	0.795-0.816	2.150	2.380	2.750	45100	29100

Remarks: Take as an example, the composition of the item number is as follows.

BOM-R (DIAMETER)- (GRIP NUMBER)

Example: BOM-R8-6 is a BOM blind rivet, Steel, 1/4" Diameter, Grip 6. For more details, please scan the QR code, or conduct a direct search of the part number.

备注: 例如料号的组成如下, BOM-R(直径)-(夹紧范围)

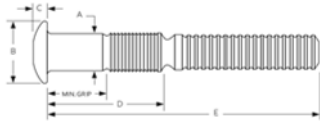
BOM为HUCK盲拉铆钉产品系列, R为材料代码(碳钢), 8为直径代码(1/4"), 6为夹紧范围代码(0.345-0.406)。

详细料号信息可扫描二维码, 或者直接搜索料号。



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C50L

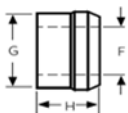


Vibrating Screens 振动筛

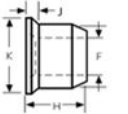
Fastener Dimensions

Part No.	Diameter	Grip Range	Max Hole Size	A	[B] Head Dia (max)	[C] Head Height (max)	D	E	Typical Shear (lbs)	Typical Clamp (lbf)	Typical Tensile (lbs)
C50LR-BR20-4	5/8"	.250 - .500	0.688	0.642 - 0.617	1.141	0.397	1.433	3.656	22500	19200	27100
C50LR-BR20-8	5/8"	.500 - .750	0.688	0.642 - 0.617	1.141	0.397	1.683	3.906	22500	19200	27100
C50LR-BR20-12	5/8"	.750 - 1.000	0.688	0.642 - 0.617	1.141	0.397	1.933	4.156	22500	19200	27100
C50LR-BR20-16	5/8"	1.000 - 1.250	0.688	0.642 - 0.617	1.141	0.397	2.183	4.406	22500	19200	27100
C50LR-BR20-20	5/8"	1.250 - 1.500	0.688	0.642 - 0.617	1.141	0.397	2.433	4.656	22500	19200	27100
C50LR-BR20-24	5/8"	1.500 - 1.750	0.688	0.642 - 0.617	1.141	0.397	2.683	4.906	22500	19200	27100
C50LR-BR20-28	5/8"	1.750 - 2.000	0.688	0.642 - 0.617	1.141	0.397	2.933	5.156	22500	19200	27100
C50LR-BR20-32	5/8"	2.000 - 2.250	0.688	0.642 - 0.617	1.141	0.397	3.183	5.406	22500	19200	27100
C50LR-BR24-8	3/4"	.500 - .750	0.813	0.768 - 0.741	1.383	0.495	1.768	4.406	32400	28400	40100
C50LR-BR24-12	3/4"	.750 - 1.000	0.813	0.768 - 0.741	1.383	0.495	2.018	4.656	32400	28400	40100
C50LR-BR24-16	3/4"	1.000 - 1.250	0.813	0.768 - 0.741	1.383	0.495	2.268	4.906	32400	28400	40100
C50LR-BR24-20	3/4"	1.250 - 1.500	0.813	0.768 - 0.741	1.383	0.495	2.518	5.156	32400	28400	40100
C50LR-BR24-24	3/4"	1.500 - 1.750	0.813	0.768 - 0.741	1.383	0.495	2.768	5.406	32400	28400	40100
C50LR-BR24-28	3/4"	1.750 - 2.000	0.813	0.768 - 0.741	1.383	0.495	3.018	5.656	32400	28400	40100
C50LR-BR24-32	3/4"	2.000 - 2.250	0.813	0.768 - 0.741	1.383	0.495	3.268	5.906	32400	28400	40100
C50LR-BR32-16	1"	1.000 - 1.250	1.063	1.025 - 0.990	1.85	0.618	2.573	5.875	56500	51500	72700
C50LR-BR32-20	1"	1.250 - 1.500	1.063	1.025 - 0.990	1.85	0.618	2.823	6.125	56500	51500	72700
C50LR-BR32-24	1"	1.500 - 1.750	1.063	1.025 - 0.990	1.85	0.618	3.073	6.375	56500	51500	72700
C50LR-BR32-28	1"	1.750 - 2.000	1.063	1.025 - 0.990	1.85	0.618	3.323	6.625	56500	51500	72700
C50LR-BR32-32	1"	2.000 - 2.250	1.063	1.025 - 0.990	1.85	0.618	3.573	6.875	56500	51500	72700
C50LR-BR32-36	1"	2.250 - 2.500	1.063	1.025 - 0.990	1.85	0.618	3.823	7.125	56500	51500	72700
C50LR-BR32-40	1"	2.500 - 2.750	1.063	1.025 - 0.990	1.85	0.618	4.073	7.375	56500	51500	72700
C50L90-BR20-8	5/8"	.500 - .750	0.688	0.642 - 0.617	1.14	0.313	1.683	3.906	22500	19200	27100
C50L90-BR20-12	5/8"	.750 - 1.000	0.688	0.642 - 0.617	1.14	0.313	1.933	4.156	22500	19200	27100
C50L90-BR20-16	5/8"	1.000 - 1.250	0.688	0.642 - 0.617	1.14	0.313	2.183	4.406	22500	19200	27100

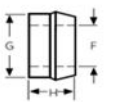
STANDARD-LC



FLANGED-3LC¹



LOW PROFILE-3LC²/ LC-2R



Collar Dimensions

Part No.	Diameter	F	G	H	J	K
LC-2R16G	1/2"	0.515 - 0.535	0.800 - 0.765	0.645 - 0.610		
LC-2R20G	5/8"	0.650 - 0.665	0.985 - 0.970	0.875 - 0.8453		
LC-2R24G	3/4"	0.775 - 0.790	1.180 - 1.165	0.960 - 0.930		
LC-2R28G	7/8"	0.915 - 0.920	1.375 - 1.360	1.113 - 1.083	—	—
LC-2R32G	1"	1.035 - 1.050	1.570 - 1.550	1.275 - 1.240	—	—
LC-2R36G	1-1/8"	1.165 - 1.185	1.770 - 1.750	1.440 - 1.390	—	—
3LC-2R16G	1/2"	0.510 - 0.530	0.807 - 0.793	0.760 - 0.722	0.130 - 0.120	1.035 - 0.980
3LC-2R20G	5/8"	0.648 - 0.660	0.996 - 0.980	0.962 - 0.926	0.170 - 0.142	1.273 - 1.227
3LC-2R24G	3/4"	0.775 - 0.793	1.195 - 1.175	1.150 - 1.115	0.200 - 0.175	1.520 - 1.480
3LC-2R28G	7/8"	0.895 - 0.907	1.370 - 1.360	1.333 - 1.300	0.230 - 0.205	1.615 - 1.575
3LC-2R32G	1"	1.035 - 1.050	1.565 - 1.550	1.520 - 1.480	0.263 - 0.237	1.893 - 1.854

Remarks: Take C50L as an example, the composition of the item number is as follows.

C50L (SERIES)R(HEAD STYLE)- (MATERIAL)(DIAMETER)- (GRIP NUMBER) Example: C50LR-BR20-4 is a C50L HUCKBOLT fastener, Round Head, Carbon Steel, 5/8" Diameter, Grip (0.250~0.500)

For more details, please scan the QR code, or conduct a direct search of the part number.

备注：以C50LR-BR20-4型号为例，料号的组成如下：

C50L为HUCKBOLT产品系列，R为头型代码（圆头），BR为材料代码（碳钢），20为直径代码（5/8"），4为夹紧范围代码（0.250~0.500）。

详细料号信息可扫描二维码，或者直接搜索料号。



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Electronic Equipment 电气设备

The industrial market covers various segments, such as:

我们的产品范围适用于各种不同的行业，例如：

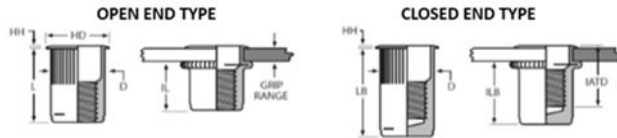
White goods 白色家电

HVAC 采暖通风与空调

Railway & Subway 铁路&地铁



AK



Part No.	THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	HOLE SIZE +0,15/-0,00	HD ±0,38	HH ±0,08	L ±0,38	D MAX.	IL MAX.	LB MAX.	ILB MAX.	IATD** MAX.
AKS3T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKS4T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKA3T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKA4T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKB3T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKB4T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKM3T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKM4T-470-2.0	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	10,67	6,73	7,75	-	-	-
AKS3T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKS4T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKA3T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKA4T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKB3T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKB4T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKM3T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKM4T-470-2.0B	M4 x 0,7 ISO	470	0,50 - 2,00	2,0	6,75	7,87	0,48	-	6,73	-	19,18	16,26	15,49
AKS3T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKS4T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKA3T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKA4T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKB3T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKB4T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKM3T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-
AKM4T-470-3.3	M4 x 0,7 ISO	470	2,00 - 3,30	3,3	6,75	7,87	0,48	11,94	6,73	7,75	-	-	-

Remarks: The composition of the AVK part number is as follows. For more details, please scan the QR code or directly search for the part number.

备注：AVK料号的组成结构如下，详细料号查询请扫描二维码，或者进行料号的直接搜索。



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SAMPLE NUMBER: AKS4T-470-2.0

AK	()	()	- ()	- ()	()																								
PRODUCT SERIES	MATERIAL	FINISH ROHS COMPLIANT	THREAD CALL OUT	GRIP CALL OUT	TYPE																								
	<table border="1"> <thead> <tr><th>CALL OUT</th><th>GRADE</th></tr> </thead> <tbody> <tr><td>S</td><td>Steel 1010/1008</td></tr> <tr><td>A</td><td>Aluminum 5056</td></tr> <tr><td>B</td><td>Brass 270/260</td></tr> <tr><td>M</td><td>Monel 400</td></tr> </tbody> </table>	CALL OUT	GRADE	S	Steel 1010/1008	A	Aluminum 5056	B	Brass 270/260	M	Monel 400	<table border="1"> <thead> <tr><th>CALL OUT</th><th>SPECIFICATION</th></tr> </thead> <tbody> <tr><td>3T</td><td>ZINC TRIVALENT PER ASTM-B-633, FE/ZN .0003 (8µ) WITH CLEAR PROTECTIVE COATING</td></tr> <tr><td>4T</td><td>YELLOW ZINC TRIVALENT PER ASTM-B-633, FE/ZN .0003 (8µ) WITH CLEAR PROTECTIVE COATING</td></tr> <tr><td>9T</td><td>TIN ZINC TRIVALENT PER ESP-P-004, .0003 (8µ) WITH CLEAR PROTECTIVE COATING</td></tr> </tbody> </table>	CALL OUT	SPECIFICATION	3T	ZINC TRIVALENT PER ASTM-B-633, FE/ZN .0003 (8µ) WITH CLEAR PROTECTIVE COATING	4T	YELLOW ZINC TRIVALENT PER ASTM-B-633, FE/ZN .0003 (8µ) WITH CLEAR PROTECTIVE COATING	9T	TIN ZINC TRIVALENT PER ESP-P-004, .0003 (8µ) WITH CLEAR PROTECTIVE COATING			<table border="1"> <thead> <tr><th>CALL OUT</th><th>TYPE</th></tr> </thead> <tbody> <tr><td>BLANK</td><td>Open End</td></tr> <tr><td>B</td><td>Closed End</td></tr> </tbody> </table>	CALL OUT	TYPE	BLANK	Open End	B	Closed End
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AVK INDUSTRIAL PRODUCTS

AT



Part No.	THREAD SIZE	THREAD CALL OUT	HD ±0,13	L ±0,38	D MAX.	IL REF.	LB ±0,38	ILB REF.	IATD MAX.	HOLE DEPTH MIN.	THREAD SIZE
ATS9-350	M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16	M3 x 0,5 ISO
ATS9T-350	M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16	M3 x 0,5 ISO
ATS10-350	M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16	M3 x 0,5 ISO
ATC9-350	M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16	M3 x 0,5 ISO
ATC9T-350	M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16	M3 x 0,5 ISO
ATS9-470	M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16	M4 x 0,7 ISO
ATS9T-470	M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16	M4 x 0,7 ISO
ATS10-470	M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16	M4 x 0,7 ISO
ATC9-470	M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16	M4 x 0,7 ISO
ATC9T-470	M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16	M4 x 0,7 ISO
ATS9-580	M5 x 0,8 ISO	580	7,77	9,40	7,12	5,21	17,40	13,21	9,78	10,16	M5 x 0,8 ISO
ATS9T-580	M5 x 0,8 ISO	580	7,77	9,40	7,12	5,21	17,40	13,21	9,78	10,16	M5 x 0,8 ISO
ATC9-580	M5 x 0,8 ISO	580	7,77	9,40	7,12	5,21	17,40	13,21	9,78	10,16	M5 x 0,8 ISO
ATC9T-580	M5 x 0,8 ISO	580	7,77	9,40	7,12	5,21	17,40	13,21	9,78	10,16	M5 x 0,8 ISO
ATS9-610	M6 x 1,0 ISO	610	10,16	13,08	9,51	6,99	25,53	19,30	15,62	13,72	M6 x 1,0 ISO
ATS9T-610	M6 x 1,0 ISO	610	10,16	13,08	9,51	6,99	25,53	19,30	15,62	13,72	M6 x 1,0 ISO
ATC9-610	M6 x 1,0 ISO	610	10,16	13,08	9,51	6,99	25,53	19,30	15,62	13,72	M6 x 1,0 ISO
ATS9-8125	M8 x 1,25 ISO	8125	13,41	15,62	12,69	8,26	27,05	19,56	16,00	16,26	M8 x 1,25 ISO
ATS9T-8125	M8 x 1,25 ISO	8125	13,41	15,62	12,69	8,26	27,05	19,56	16,00	16,26	M8 x 1,25 ISO
ATC9-8125	M8 x 1,25 ISO	8125	13,41	15,62	12,69	8,26	27,05	19,56	16,00	16,26	M8 x 1,25 ISO
ATC9T-8125	M8 x 1,25 ISO	8125	13,41	15,62	12,69	8,26	27,05	19,56	16,00	16,26	M8 x 1,25 ISO
ATS9-1015	M10 x 1,5 ISO	1015	14,94	18,92	14,26	9,91	36,83	27,81	22,61	19,56	M10 x 1,5 ISO
ATS9T-1015	M10 x 1,5 ISO	1015	14,94	18,92	14,26	9,91	36,83	27,81	22,61	19,56	M10 x 1,5 ISO
ATC9-1015	M10 x 1,5 ISO	1015	14,94	18,92	14,26	9,91	36,83	27,81	22,61	19,56	M10 x 1,5 ISO
ATC9T-1015	M10 x 1,5 ISO	1015	14,94	18,92	14,26	9,91	36,83	27,81	22,61	19,56	M10 x 1,5 ISO
ATS9-12175	M12 x 1,75 ISO	12175	20,32	23,75	19,01	12,32	NA	NA	NA	24,38	M12 x 1,75 ISO
ATS9T-12175	M12 x 1,75 ISO	12175	20,32	23,75	19,01	12,32	NA	NA	NA	24,38	M12 x 1,75 ISO
ATC9-12175	M12 x 1,75 ISO	12175	20,32	23,75	19,01	12,32	NA	NA	NA	24,38	M12 x 1,75 ISO
ATC9T-12175	M12 x 1,75 ISO	12175	20,32	23,75	19,01	12,32	NA	NA	NA	24,38	M12 x 1,75 ISO

Remarks: The composition of the AVK part number is as follows. For more details, please scan the QR code or directly search for the part number.

备注：AVK料号的组成结构如下，详细料号查询请扫描二维码，或者进行料号的直接搜索。



avk.dbfasteners.cn

SAMPLE NUMBER:ATS9T-470

AT		()	()	()	- ()
PRODUCT SERIES		TYPE	MATERIAL	FINISH RoHS COMPLIANT	THREAD CALL OUT
CALL OUT	TYPE	CALL OUT	GRADE	CALL OUT	SPECIFICATION
BLANK	Open End	S	Steel , Low Carbon	2	CAD PLATE PERAMS-QQ-P416, TY I CLASS 3
502	Closed End	A	Aluminum 6061-T6	3R	PLAIN ZINC PER ASTM-B-633, FE/ZN .0003 (µ)
		B	Brass 360 or 464	5	DULL TIN PER MIL-T-10727 TY I .0003
		C	CRES 304	9T	TIN ZINC TRIVALENT PER ESP-P-008, .0003 (µ)



Product Series 产品系列



The A-L Series Insert features a knurled body and large diameter—low profile head making it ideal for use in punched or drilled holes.
A-L系列是周身带滚花，头部直径较大，是AVK最通用的产品，可以安装在任何材料的钻孔或冲孔中。

The A-K Series Insert features a knurled body and a reduced profile head to allow for virtually flush installation. Countersink drilling or dimpling of the parent material can be eliminated.
A-K系列是周身带滚花，头部较小，安装后与表面起平，对于需要接近齐平匹配部件组装的应用，具有更低轮廓的头部。

The A-H Series Insert features a radius corner hex body. When installed into a corresponding hex hole, the radius corners of the A-H Series Insert expand and fill the hole corners providing exceptional resistance to spinning in the panel.
A-H系列周身带圆角的六角形，提供额外的抗旋出力。

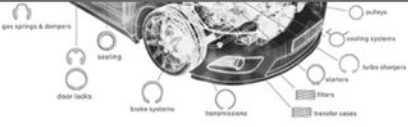
A-R Series, Pre-Bulbed slotted body design for exceptional pull out resistance in drilled or punched Holes in plastics, composites and thin sheet metal applications.
A-R系列具有非常宽的夹紧范围，其四个承重“腿”非常适合用于塑料或薄金属板，有较大的拉脱阻力。

The A-S Series Stud offers a unique design advantage in that once installed, a threaded stud is left protruding from the workpiece. Component parts can be located on the stud until final assembly is accomplished with a mating nut. The A-S series is an ideal alternative to clinch or weld studs.
A-S系列具有独特的设计优势，安装时会突出螺柱的附加特征，该系列是压铆螺母或焊接螺柱的理想替代品。

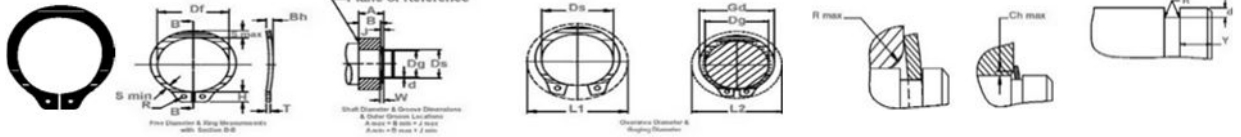
The A-T Series Insert is unique in that it can be installed into most any material above .030/.76 mm in thickness. As the A-T Series is installed, the threaded portion is completely swaged 360° into the sleeve portion and the hole. This permits the A-T Series to be used with Grade 8/Metric 12.9 mating screws.
A-T系列的独特之处在于它有较大的夹紧范围，可以安装在大于厚度为0.762 mm的任何材料上。当安装A-T系列时，螺纹部分完全铆接，360°进入铆螺母套筒部分。该系列可以适用于装配美制8级/公制12.9螺栓。

Remarks: For more details, please scan the QR code or directly search for the part number.
备注：详细料号查询请扫描二维码，或者进行料号的直接搜索。



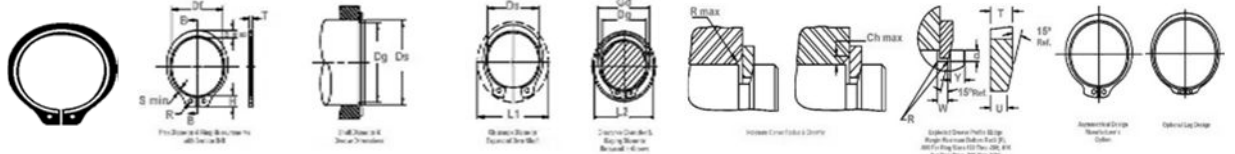


BSH



RING NO.	SHAFT			GROOVE SIZE					RING SIZE & WEIGHT					CLEAR. DIA.			
	Diameter			Diameter		Width		Depth	Free Diameter		Thickness		Bow Height		Wght. Per 1000 Pcs.	Ex- panded over shaft	Released ingroove
	Ds DE	Ds FRAC	Ds m	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Bh	Tol.			
BSH-25	0.250	1/4	6.4	0.230	±.0015, .0015*	0.040		0.010	0.225	+ .002-	0.025		0.047		0.21	0.45	0.43
BSH-27	0.276	-	7.0	0.255		0.040		0.010	0.250		0.025		0.047		0.23	0.48	0.46
BSH-28	0.281	9/32	7.1	0.261		0.040		0.010	0.256		0.025		0.047		0.24	0.49	0.47
BSH-31	0.312	5/16	7.9	0.290		0.040		0.011	0.281		0.025		0.047		0.27	0.54	0.52
BSH-34	0.344	11/32	8.7	0.321		0.040		0.011	0.309		0.025		0.047		0.31	0.57	0.55
BSH-35	0.354	-	9.0	0.330	±.002 .002*	0.040		0.012	0.320		0.025		0.047		0.35	0.59	0.57
BSH-37	0.375	3/8	9.5	0.352		0.040	+ .003 - .000	0.012	0.338	+ .002 - .005	0.025		0.047	± .006	0.39	0.61	0.59
BSH-39	0.394	-	10.0	0.369		0.040		0.012	0.354		0.025		0.047		0.42	0.62	0.60
BSH-40	0.406	13/32	10.3	0.382		0.040		0.012	0.366		0.025		0.047		0.43	0.63	0.61
BSH-43	0.438	7/16	11.1	0.412		0.040		0.013	0.395		0.025		0.047		0.50	0.66	0.64
BSH-46	0.469	15/32	11.9	0.443		0.040		0.013	0.428		0.025		0.047		0.54	0.68	0.66
BSH-50	0.500	1/2	12.7	0.468		0.055		0.016	0.461		0.035		0.063		0.91	0.77	0.74
BSH-55	0.551	-	14.0	0.519	±.002 .004*	0.055		0.016	0.509	+ .005 - .010	0.035		0.063	± .007	0.90	0.81	0.78
BSH-56	0.562	9/16	14.3	0.530		0.055		0.016	0.521		0.035		0.063		1.1	0.82	0.79

VSH

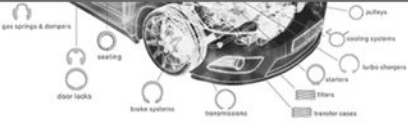


RING NO.	SHAFT			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.			
	DIAMETER			DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END		WEIGHT PER 1000 PCS.	EX- PANDED OVER SHAFT	RE- LEASED IN GROOVE
	Ds DE C	Ds FRAC T	Ds m	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.			
VSH-100	1.000	1	25.4	0.930	+ .000	0.037		0.035	0.925	+ .005	0.042		0.034		3.6	1.41	1.38
VSH-102	1.023	-	26.0	0.951	- .003, .004*	0.036		0.036	0.946	- .010	0.042		0.033		3.9	1.43	1.40
VSH-106	1.062	1-1/16	27.0	0.992		0.044		0.035	0.982		0.050		0.041		4.8	1.50	1.47
VSH-112	1.125	1-1/8	28.6	1.051		0.044		0.037	1.041		0.050		0.041		5.1	1.55	1.52
VSH-119	1.188	1-3/16	30.2	1.108		0.044		0.040	1.098		0.050		0.041		5.6	1.61	1.57
VSH-125	1.250	1-1/4	31.7	1.166	+ .000 - .004, .005*	0.043		0.042	1.156	+ .010 - .015	0.050		0.040		5.9	1.69	1.65
VSH-131	1.312	1-5/16	33.3	1.224		0.042		0.044	1.214		0.050		0.039		6.8	1.75	1.71
VSH-137	1.375	1-3/8	34.9	1.282		0.042		0.046	1.272		0.050		0.039		7.2	1.80	1.76
VSH-143	1.438	1-7/16	36.5	1.343		0.042		0.047	1.333		0.050		0.039		8.1	1.87	1.83
VSH-150	1.500	1-1/2	38.1	1.397		0.041	+ .005 - .000	0.051	1.387		0.050		0.038		9.0	1.99	1.95
VSH-157	1.562	1-9/16	39.7	1.459		0.053		0.051	1.446		0.062		0.049	± .001	12.4	2.10	2.05
VSH-162	1.625	1-5/8	41.3	1.516		0.053		0.054	1.503		0.062		0.049		13.2	2.17	2.13
VSH-168	1.688	1-11/16	42.9	1.573		0.052		0.057	1.560		0.062		0.048		14.8	2.24	2.20
VSH-175	1.750	1-3/4	44.4	1.631		0.052		0.059	1.618		0.062		0.048		15.3	2.31	2.26
VSH-177	1.772	-	45.0	1.650	+ .000 - .005, .005*	0.052		0.061	1.637	+ .013 - .020	0.062		0.048		15.4	2.33	2.28
VSH-181	1.812	1-13/16	46.0	1.688		0.052		0.062	1.675		0.062		0.048	± .003	16.2	2.38	2.33
VSH-187	1.875	1-7/8	47.6	1.748		0.052		0.063	1.735		0.062		0.048		17.3	2.44	2.39
VSH-196	1.969	1-31/32	50.0	1.832		0.051		0.068	1.819		0.062		0.047		18.0	2.54	3.09
VSH-200	2.000	2	50.8	1.863		0.051		0.068	1.850		0.062		0.047		19.0	2.57	3.10
VSH-206	2.062	2-1/16	52.4	1.921	+ .000 - .006, .006*	0.067	+ .007 - .000	0.070	1.906	+ .015 - .025	0.078		0.062	± .001	25.0	2.68	3.22
VSH-212	2.125	2-1/8	54.0	1.979		0.067		0.073	1.964		0.078		0.062	5	26.1	2.78	3.29

Remarks: ROTOR CLIP's part number consists of model, size & material & surface treatment, i.e.: BSH-25ST PA which means that BSH is the type circlip, ST means carbon steel material, and PA means phosphating surface treatment. We also available for housing ring. For more details, please scan the QR code or directly search for the part number.

备注: ROTOR CLIP的料号由款型+尺寸+材质+表面处理组成, 如BSH-25ST PA,表示BSH款型的卡簧, 材质是碳钢, 表面处理是磷化。同时我们也提供孔用卡簧。详细物料查询请扫描二维码或者直接进行料号搜索。





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JIS E Retaining Rings



ANSI Metric Tapered Section Retaining Rings



Metric Constant Section Retaining Rings



Metric Spiral Retaining Rings



Metric Tapered Section Retaining Rings



Wave Springs



TruWaveTM Spiral Rings



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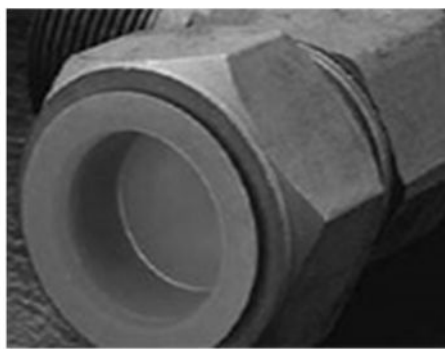
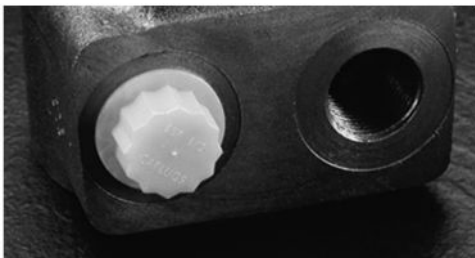
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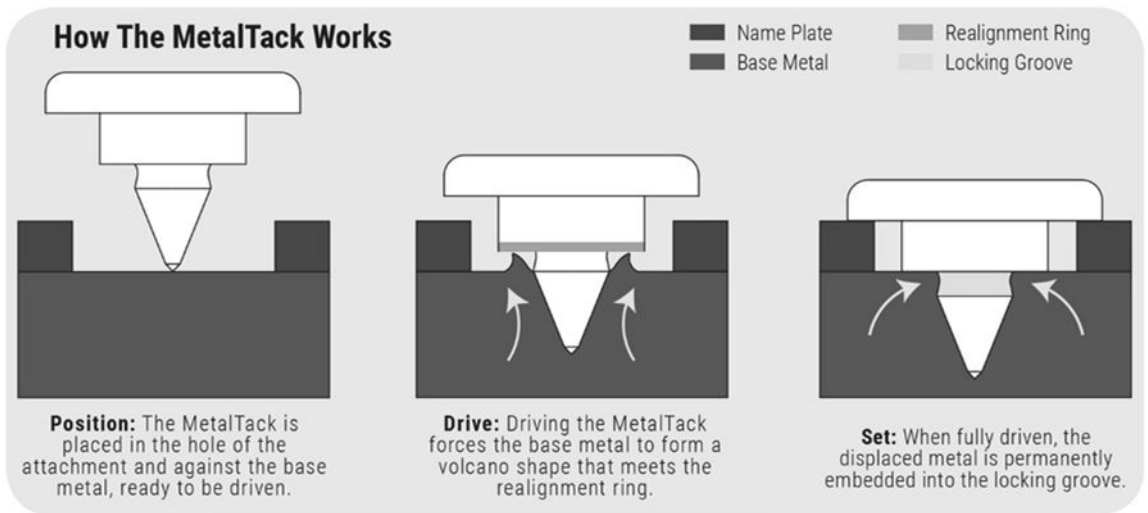
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A Heavy-Duty Solution to Light-Load Fastening

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在金属铸件上快速固定铭牌的解决方案

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Tooling

安装工具

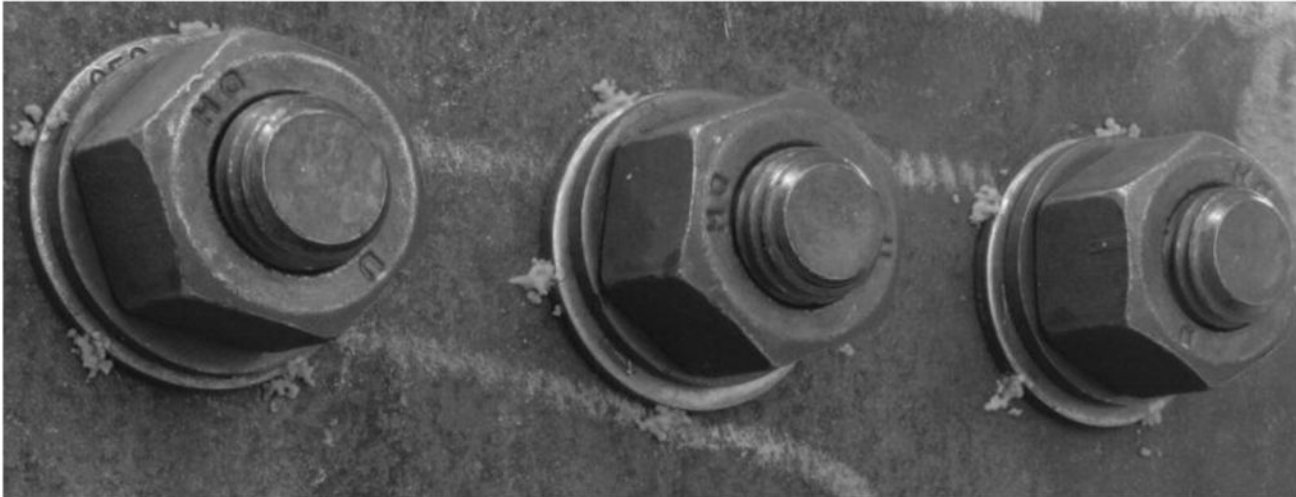


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Now you can see that the bolt is tight!
看到橙色硅胶喷射，表明你的螺栓已达到预紧力，安装到位。



Orange is good!

Squirter®DTI

压力指示垫片



Squirter®DTIs are DTIs with a flexible silicone embedded in the depressions under the bumps.
To use them, simply ... Tighten the bolt until the calibrated amount* of orange silicone appears from under the DTI's squirt locations, then stop tightening. That's all there is to it.
Squirter® DTIs making bolting easy!

Squirter®DTI是喷射型的压力指示垫圈，在凹凸处的凹陷处嵌入柔性硅树脂。
使用起来是很简单的，只需拧紧螺栓，直到从DTI的喷射位置下方出现校准量的橙色硅胶，然后停止拧紧。这就是所有的操作了，DTI压力指示垫圈使螺栓连接变得容易！



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 GB6177
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WASHER

垫圈

DIN125, DIN127, DIN128

RETAINING RING

止动环

DIN471 DSH SHAFT RINGS
 DIN472 DHO HOUSING RINGS

How To Call Out Parts

完整的标准件型号

Screws

螺丝

Diameter
直径
 Thread Pitch
牙距
 Length
长度
 Recess
槽型
 Head Style
头型
 Product Type
类型
 Material
材料
 Finish
镀层

Example:

4-40 x 3/4 Phillips Pan Head
Machine Screw Zinc

Bolts

螺栓

Diameter
直径
 Thread Pitch
牙距
 Length
长度
 Head Style
头型
 Product Type
类型
 Material
材料
 Finish
镀层

Example:

1/4-20 x 1 Hex Head Cap Screw
Grade 5 Zinc/Clear

Nuts

螺母

Diameter
直径
 Thread Pitch
牙距
 Product Type
类型
 Material
材料
 Finish
镀层

Example:

#10-32 Hex Machine Screw Nut
Black Oxide

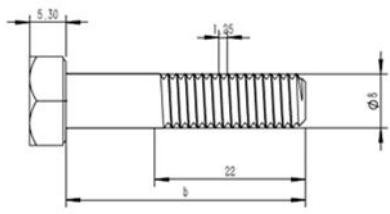
Washers

垫片

Internal Diameter
内径
 Outside Diameter
外径
 Thickness
厚度
 Product Type
类型
 Material
材料
 Finish
镀层

Examples:

1/2 USS Flat Washer Plain
.75 OD X .25 ID X .062 T, Steel,
Black Oxide & Wax

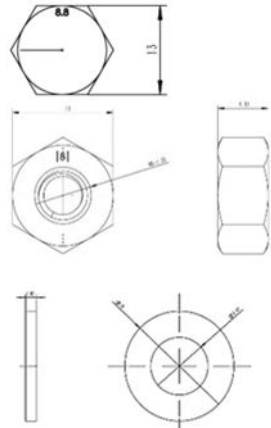


Materials

Stainless Steel	S/S or CRES
410 Stainless	410SS
316 Stainless	316SS or T316
Steel	STL
Bronze	BRNZ
Aluminum	ALUM
Titanium	Ti

Finishes

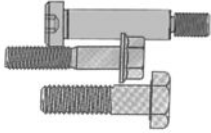
Plain Steel	PLN
Zinc Plate	ZN
Zinc/Yellow	ZN/Y
Zinc/Clear	ZN/CLR
CadmiumPlated	CAD
Nickel Plated	NI
Chrome Plated	CHR





Standard Fasteners

标准紧固件



Bolt

5/8" Shoulder x 1-1/2" Shoulder Length x 1/2"-13 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 5/8" Shoulder x 1" Shoulder Length x 1/2"-13 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 3/4" Shoulder x 1-1/2" Shoulder Length x 5/8"-11 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 1/2" Shoulder x 1-3/4" Shoulder Length x 3/8"-16 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 1/2" Shoulder x 3" Shoulder Length x 3/8"-16 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 5/8" Shoulder x 2-3/4" Shoulder Length x 1/2"-13 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 5/8" Shoulder x 4-1/2" Shoulder Length x 1/2"-13 Black Oxide/Plain Finish Alloy Steel Socket Shoulder Bolt
 1/4"-20 x 1" Pipe Size Zinc Plated Round Bend U-Bolt

Nut

7/8"-9 YELLOW ZINC FINISH GRADE 5 FINISHED HEX NUT
 9/16"-18 GRADE 2 ZINC FINISH NE STEEL NYLON INSERT LOCK NUT
 1/2"-20 SAE J995 GRADE 5 ZINC FINISH STEEL JAM NUT
 5/16"-18 ZINC FINISH GRADE 5 FINISHED HEX NUT
 3/8"-16 ZINC FINISH GRADE 5 FINISHED HEX NUT
 1/2"-13 CADMIUM FINISH STEEL FLEXIBLE LOCK NUT
 5/16"-24 SAE J995 GRADE 5 ZINC FINISH STEEL JAM NUT
 5/8"-18 ZINC FINISH GRADE 5 FINISHED HEX NUT
 1-1/2"-12 ZINC FINISH GRADE 8 FINISHED HEX NUT
 7/16"-14 GRADE 2 ZINC FINISH NE STEEL NYLON INSERT LOCK NUT
 1/4"-20 GRADE 2 ZINC FINISH NE STEEL NYLON INSERT LOCK NUT
 1"-8 SAE J995 GRADE 5 ZINC FINISH STEEL JAM NUT
 1/2"-13 ZINC FINISH GRADE 5 FINISHED HEX NUT
 M6 DIN934 HEX NUT CLASS 8 CLEAR ZINC
 1/4"-20 GRA NYLON LOCK THIN NUT ZINC
 5/16"-18 LOCK NUT GR.C ZINC
 10-24 CENTER LOCK HEX NUT CR6+ YZ 96HRS
 1/4"-20 HEX NUT YELLOW ZINC
 5/16"-18 HEX JAM NUT YELLOW ZINC
 M8-1.25 HEX FINISH NUT ZINC CLEAR 96 HR SALT SPRAY
 M6-1 DIN985 LOCK NUT ZINC W/ SEALER
 1/4"-20 LEFT HAND HEX NUT ZINC 96HRS



Screw

1/4"-20 x 7/8" ASTM F835 Hex Drive Black Oxide or Plain Finish Alloy Steel Flat Socket Cap Screw
 3/8"-16 x 1" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw
 #10-32 x 1/2" ASTM F879 Hex Drive Grade 18-8 Stainless Steel Button Socket Cap Screw
 3/8"-16 x 1-1/2" ASTM F835 Hex Drive Black Oxide Alloy Steel Flat Socket Cap Screw
 1/4"-28 x 3/8" Hex Drive Flat Point Black Oxide Finish Alloy Steel Socket Set Screw
 1/2"-13 x 1-1/4" ASTM F835 Hex Drive Black Oxide Alloy Steel Flat Socket Cap Screw
 3/8"-16 x 3/4" Hex Drive Knurled Cup Point Black Oxide Alloy Steel Socket Set Screw
 1/4"-20 x 2-1/2" ASTM F835 Hex Drive Black Oxide Finish Alloy Steel Button Socket Cap Screw
 1/4"-20 x 1-1/4" ASTM F835 Hex Drive Black Oxide Alloy Steel Flat Socket Cap Screw
 #6-32 x 1 5/8" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw
 1/4"-20 x 2" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw
 3/8"-16 x 3/4" ASTM F835 Hex Drive Black Oxide Alloy Steel Flat Socket Cap Screw
 1/4"-20 x 3/4" ASTM F835 Hex Drive Black Oxide Alloy Steel Flat Socket Cap Screw
 5/16"-24 x 1 1/4" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw
 5/8"-11 x 3 1/4" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw
 3/8"-16 x 1 1/4" ASTM A574 Hex Drive Black Oxide Alloy Steel Socket Cap Screw

Washer

3/8 18-8 FLAT WASHER (ID.3780/.3755)
 0.39 S/S FLAT WASHER (ID .385/.395)
 1/4 SPRING ZINC LOCK WASHER
 5/16 SPRING ZINC LOCK WASHER
 5/16 SPRING MZ LOCK WASHER
 1/4 SPRING YELLOW ZINC LOCK WASHER
 5/16 SPRING YELLOW ZINC LOCK WASHER
 .344 Flat Washer Yellow Zinc (CR6+) w/ Sealer
 1/4 SAE FLAT WASHER ZINC 96HRS
 5/16 SAE FLAT WASHER ZINC
 3/8 18-8 FLAT WASHER
 0.39 S/S FLAT WASHER
 .281 THROUGH HARDENED FLAT WASHER ZINC
 1/2 BUNA-N 50 WASHER-GASKET (0.500x0.838x0.031)



We just couldn't fit it all in!

We has thousands of parts not shown in this catalog. If you don't see a part to fit your need, contact us to discuss additional parts offered.

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This is to certify that
DB Fasteners (China) Limited

is an authorized non-exclusive distributor for
Rotor Clip Company, Inc.
retaining rings and related products

Valid for 3 years effective from November 1, 2017



Craig Shaw, Owner
Rotor Clip Company, Inc.

Rotor Clip Company, Inc. 187 Davidson Avenue, Somerset, NJ 08873 USA



OFFICIAL DISTRIBUTOR AUTHORIZATION CERTIFICATE

This serves to confirm the appointment of

DB Fasteners (China) Limited
Room 301, Building #3, No.51 Lane
1895 Hutai Road, Jing'An District,
Shanghai, China

As a non-exclusive Distributor for Arconic Fastening Systems Co., Ltd. (Including
Arconic Fastening Systems Suzhou Co., Ltd.) and Huck International, Inc., for AFS
Fasteners, assembly equipment and repair parts for general industry, including
the passenger rail car, throughout the People's Republic of China

Effective date: Dec. 2018

Expire date: Dec. 2019

Signed for, and on behalf of the below:

Jim Arnold
Vice President & General Manager
Global Operations
For Arconic Fastening Systems
and
Huck International, Inc
Date: 12/31/2018

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