

Professional Aluminium Alloy Lean Pipe Connecting System.





# COMPANY

# 公司介绍

宁波汇燊金属线棒科技有限公司是集设计开发、生产制造铝合金线棒连接系统及周边配套应用产品的专业生产厂家,同时为客户提供精益柔性生产系统和物料配送系统的规划设计,并且协助客户导入先进的制造理念、提升持续改善、创新能力,使我们一起成为全球制造业的典范。

面对日益突出的环境问题,一些负有社会责任感的制造企业已经开始对生产设备、设施、器具的使用,评估对环境产生的影响,同时必须考虑设备设施的重复利用效率及成本。汇燊铝合金线棒产品在设计上已经考虑不同材料的可分离方式,以便日后的回收利用,同时我们的产品在应用制作过程中不产生复杂的加工工序,且不对环境产生污染,其效率是用传统工艺制作的10倍以上。汇燊铝合金线棒产品不仅广泛应用于制造业的简易半自动设备、装配生产线、物料配送、周转和存放系统,同时也涵盖商业展示及其他创意应用领域。

# PROFILE

Ningbo Huishen (Spark) Metal Lean Pipe Technology Co., Ltd is professional manufacturer integrated design, development and production aluminum alloy Lean Pipe connecting system & peripheral articles, as well, providing customers planning and design of lean manufacturing system & material handling system, and assist clients to bring in advanced manufacturing concept, promote continuous improvement, innovation, make us a model of global MFG Industry together.

Face of increasingly prominent environmental problems, Some manufacturing enterprises with the social responsibility have begun to use of production equipment, facilities, equipment, to estimate the impact on the environment, at the same time must consider reuse efficiency and cost of equipment and facilities. Huishen (Spark) aluminum alloy Lean Pipe parts are designed to have considered different materials of separable way and recycling for future, avoid produce complex processing procedure in the application & pollute the environment, with efficiency 10 times more than the traditional process. Huishen (Spark) aluminum alloy Lean Pipe parts not only widely used in the manufacturing of simple semi–automatic equipment, assembly line, material handling, turnover and storage system, but also covers the commercial display and other creative applications.



# COMPANY PROFILE

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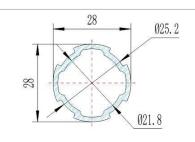


#### 线棒型材 LEAN PIPE PROFILES

#### 基础线棒 General Frame





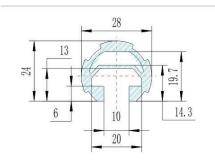


#### "T"型槽线棒 "T" Slot Frame





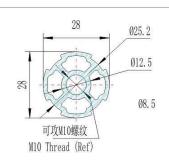




#### 加强线棒 Loaded Frame



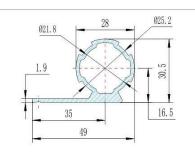


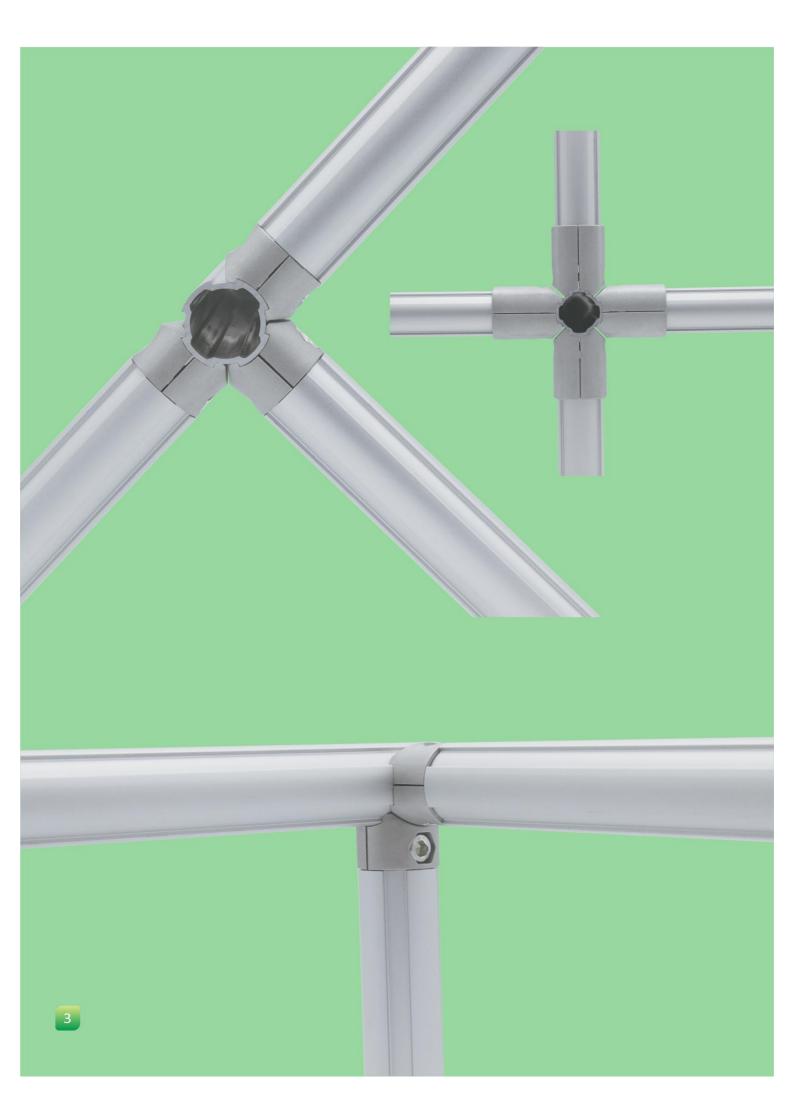


#### 单边物料盒线棒 PC Frame (Single Side)



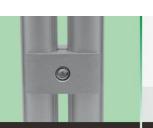










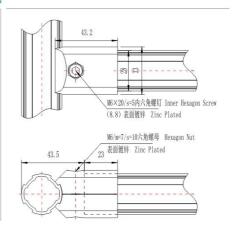


# 连接件 CONNECTOR

#### 外直接头 Multi Connector Outer Type







#### 双孔功能辅件 Connector Piece



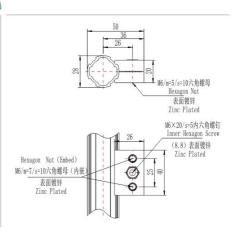


GAJ-A02

铝压铸(Aluminum Die-cast)

53克(g)

材料/Material

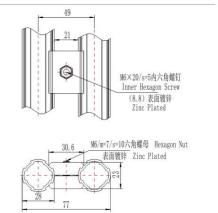


#### 平行接头 Parallel Connector















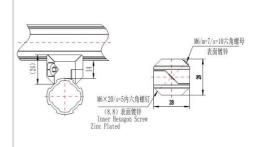
# 连接件 CONNECTOR

#### 90° 交叉接头 Cross Connector









## 平行固定接头 Parallel Holder

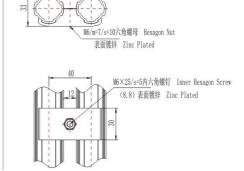


GAJ-A05								
材料/Material	铝压铸(Aluminum Die-cast)							
产品单重/NW	110克(g)							
包装数量 /PQ	90套(Set)							
包装重量/TW	10.3干克(Kg)							
包装尺寸/PD	300*220*160(mm)							



材料/Material

产品单重/NW 包装数量/PQ 包装重量/TW



#### 双管直外接 Multi Double Connector Outer Type

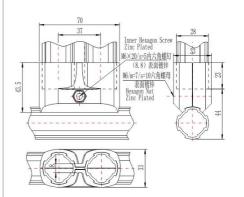


包装尺寸/PD	300*220*160(mm)

GAJ-A06

铝压铸(Aluminum Die-cast)

108克(g)

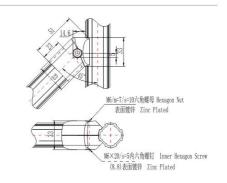




#### 45°外接头 Connector Outer Type 45°



	GAJ-A45								
材料/Material	材料/Material 铝压铸(Aluminum Die-cast)								
产品单重/NW	65克(g)								
包装数量 /PQ	144套(Set)								
包装重量/TW	9.6千克 ( Kg )								
包装尺寸/PD	300*220*160(mm)								



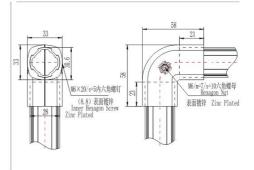


#### 90°外接头 Connector Outer Type 90°









## 45°加强接头 Point Connector



GAJ-A4545							
材料/Material	铝压铸(Aluminum Die-cast)						
产品单重/NW	125克(g)						
包装数量 /PQ	80套(Set)						
包装重量/TW	10.2干克(Kg)						
包装尺寸 /PD	300*220*160(mm)						

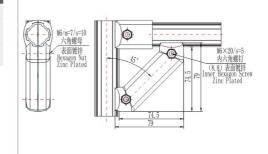
GAJ-A180

铝压铸(Aluminum Die-cast)

127克(g)

80套(Set)





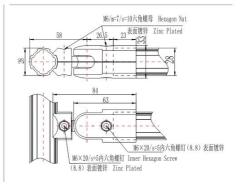
#### 180°外接头 Free Connector Outer Type





材料/Material

产品单重/NW







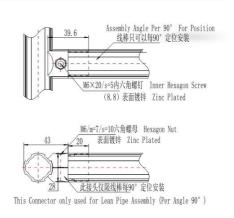


#### 连接件 CONNECTOR

### 内直接头 Multi Connector Inner Type





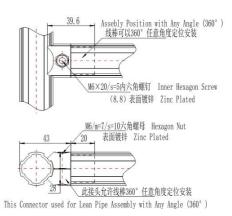


#### 内直旋转接头 Multi Connector Inner Rotate Type







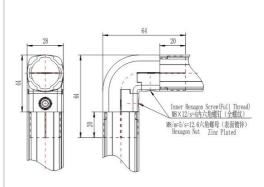


#### 90°内接头 Connector Inner Type 90°















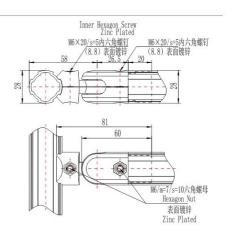
# 连接件 CONNECTOR

#### 180°内接头 Free Connector Inner Type









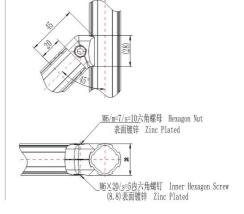
#### 45°内接头ConnectorInnerType 45°



GAJ-B45								
材料/Material	铝压铸(Aluminum Die-cast)							
产品单重/NW	55克(g)							
包装数量 /PQ	180套(Set)							
包装重量 /TW	10.4干克(Kg)							
包装尺寸 /PD	300*220*160(mm)							



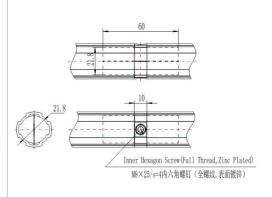
GAJ-B02



#### 基础线棒连接接头 Straight Connector

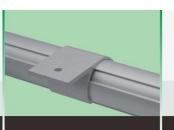


6	內科/Material 产品单重/NW 包装数量 /PQ 包装重量 /TW 包装尺寸 /PD	6.		







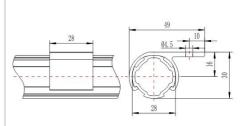


# 金属辅件 METAL ACCESSORIES

#### 台板固定卡扣 Plate Positioner



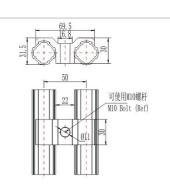




#### 脚轮固定组件 Caster Supportor





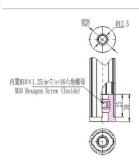


#### 内胀式连接组件 Expanding Connector Set







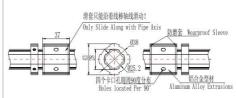


#### 直线滑套组件 Slide Set















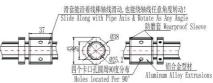
# 金属辅件 METAL ACCESSORIES

#### 直线转动滑套组件 Rotating Sleeve Set







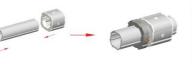


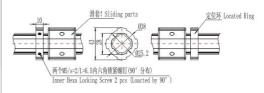


#### 滑套定位环 Slider Located Ring









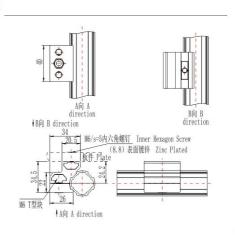


# "T"型槽错位辅件 "T" Slot Accessory













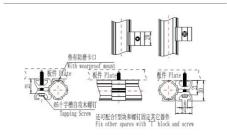


#### 金属辅件 METAL ACCESSORIES

#### 弹性金属辅件 Elastic Appendage



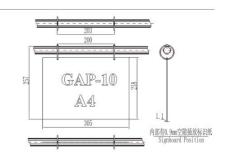




## 吊牌环扣 Hangtag Buckle



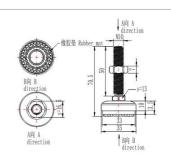




#### 可调式脚座 Foot Base (Adjustable)



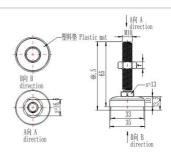




#### 可调式脚座 Foot Base (Adjustable)













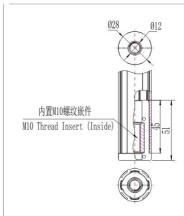
#### 非金属辅件 NON-METALLIC AUXILIARY PARTS

#### 内嵌式连接组件 Inserted Connector Set





PP 2.08克(g)

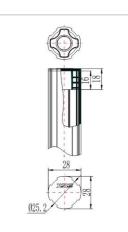


#### 管塞 Inner Cap





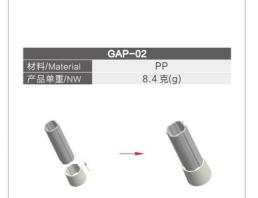
材料/Material

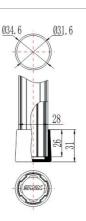


#### 脚套 Foot Base







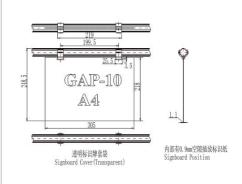






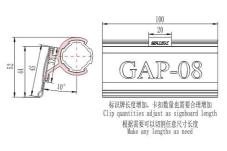
#### 吊牌卡扣 Hangtag Clip





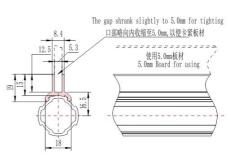
#### 标牌卡扣 Signboard Clip



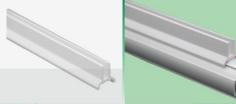


### 5.3mm板面卡扣 Panel Holder





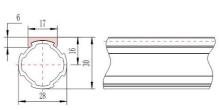




## 非金属辅件 NON-METALLIC AUXILIARY PARTS

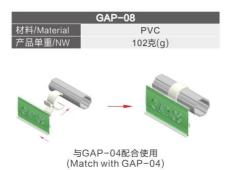
#### 平面防磨卡扣 Frame Strip





#### T型槽标识牌 "T" Slot Signboard



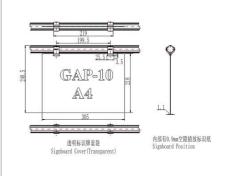


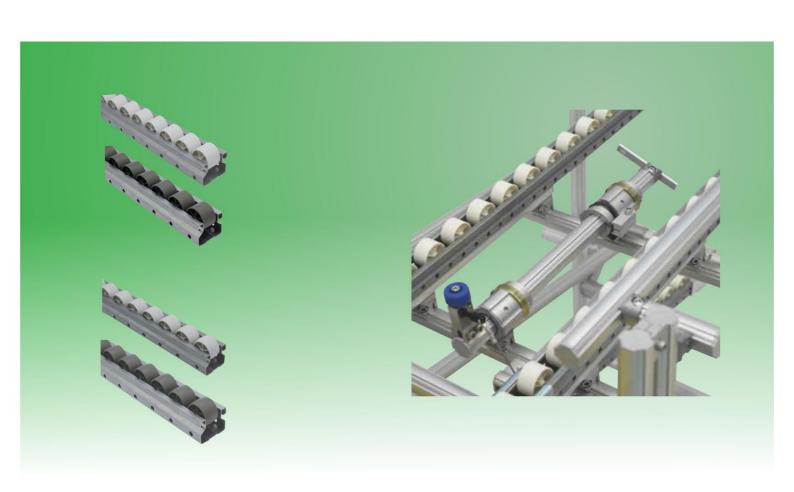


#### 4A吊牌套 4A Hangtag Cover



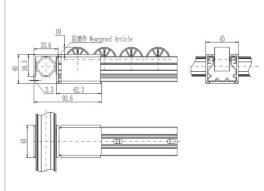






### 流利条定位器 Flow Roller Positioner



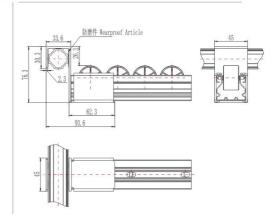


# 流利条定位器 Flow Roller Positioner

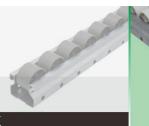












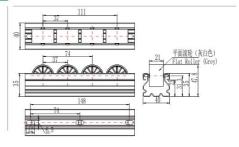


#### 流利条 FL□₩ R□LLER TRACK

#### 40mm平面灰白色滚轮轨道 Flow Roller Track (Flat)



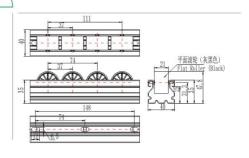




#### 40mm平面灰黑色滚轮轨道 Flow Roller Track (Flat)



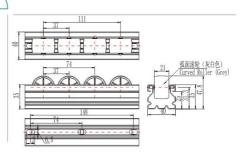




#### 40mm弧面灰白色滚轮轨道 Flow Roller Track (Curved)



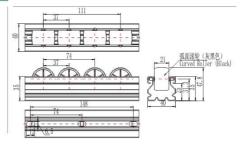




#### 40mm弧面灰黑色滚轮轨道 Flow Roller Track (Curved)











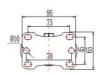




# 脚轮 CASTER

# 平板脚轮 Fixed Caster

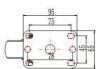






平板万向脚轮 Free Caster

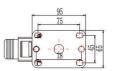


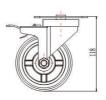




平板万向带刹脚轮 Free Caster(Brake)

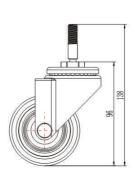






丝杆万向脚轮 Screw Axis Caster







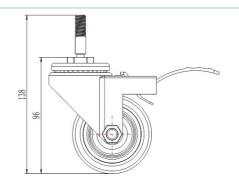




# 脚轮 CASTER

# 丝杆万向带刹脚轮 Screw Axis Caster(Brake)





#### 丝杆脚轮 Screw Caster

Modle	D (mm)	B (mm)	IKe IKe	(nm)	(mm)		A2 (mm)	(mm)	(mm) A	MX (nm)
GAC-S3W-PU	75	32	60	138	Ball	*	*	40	*	M10
GAC-S3WS-PU	75	32	60	138	Ball	*	*	40	*	M10
GAC-S4W-PU	100	32	100	152	Ball	*	*	40	*	M10
GAC-S4WS-PU	100	32	100	152	Ball	*	*	40	*	M10

#### 平板脚轮 Free Caster

Modle	D (mm)	B (mm)	[mm]	(mm)	(mm)		A1 (mm)	(mm)	(mm) A	MI (mm)
GAC-L3G-PU	75	32	60	105	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L4G-PU	100	32	100	118	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L5G-PU	125	32	120	132	Ball	95×65	75×45,80	*	11.5×8.5/Φ10.5	*
GAC-L3W-PU	75	32	60	105	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L4W-PU	100	32	100	118	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L5W-PU	125	32	120	132	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L3WS-PU	75	32	60	105	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L4WS-PU	100	32	100	118	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*
GAC-L5WS-PU	125	32	120	132	Ball	95×65	75×45,80	*	11.5 × 8.5/ Φ 10.5	*







#### GAJ-A01 直外接 Multi Connector Outer Type

最大载荷(N) 760	最大载荷(N)	399	载荷方向Loa	长度 (L)	容许载荷(PC)(N)			
Load(Max)			399	竖向 (Vertical)	横向(Horizontal)	(mm)	竖(V)	横(H)
		FA		IF	IE	100	105	52
				2		200	52	27
						300	35	17
						500	21	10
					75	单位容许载荷(UPC) (N.m)	10	5.2

#### GAJ-B01 直内接 Multi Connector Inner Type

最大载荷(N) 760	最大载荷(N)	399	载荷方向Lo	ad Direction	长度 (L)	容许载荷(PC)(N)		
Load(Max)		Load(Max)	399	竖向 (Vertical)	横向(Horizontal)	(mm)	竖(V)	横(H)
		FA		IE.	IF	100	86	57
F						200	43	29
						300	29	19
						500	17	11
						单位容许载荷(UPC) (N.m)	8.6	5.7

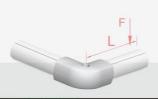
#### GAJ-A45 45°外接头 Connector Outer Type 45°

最大载荷(N) Load(Max) 665		最大载荷(N)	247	载荷方向Loa	ad Direction	长度 (L)	容许载荷(PC)(N)	
Load(Max)	Load(Max) 665 Load(N		247	竖向 (Vertical)	受向 (Vertical) 横向(Horizontal)		合け報何(PU)(N)	
FI		F≬	FA FI FI			100	157	
					L	200	79	
						300	52	
///						500	31	
						单位容许载荷(UPC) (N.m)	15.7	

#### GAJ-B45 45°内接头ConnectorInnerType 45°

最大载荷(N) Load(Max) 570		最大载荷(N)	261	载荷方向Loa	载荷方向Load Direction		容许载荷(PC)(N)	
Load(Max)	570	Load(Max)	201	竖向 (Vertical)	横向(Horizontal)	(mm)	台厅\$19(FG)(N)	
F	F			F	-	100	110	
1		lin lin		L	L .	200	55	
52						300	37	
						500	22	
				4.		单位容许载荷(UPC) (N.m)	11	







#### GAJ-A90 90°外接头 Connector Outer Type 90°

最大载荷(N)	162	载荷方向(Lo	ad Direction)	长度 (L)	容许载荷(PC)(N)	
Load(Max)		竖向 (Vertical)	横向(Horizontal)	(mm)	(V) 翌	横(H)
FA		F		100	380	190
		<u> </u>	F	200	190	95
		(2)	LH	300	126	64
		- T		500	76	38
				单位容许载荷(UPC) (N.m)	38	19

#### GAJ-B90 90°内接头ConnectorInnerType 90°

最大载荷(N)	266	载荷方向(Lo	ad Direction)	长度 (L)	容许载荷(PC)(N)	
Load(Max)		竖向 (Vertical)	横向(Horizontal)	(mm)	竖(V)	横(H)
F	F			100	124	62
10			F	200	62	31
			LL	300	41	21
á J				500	25	12
				单位容许载荷(UPC) (N.m)	12	6.2

#### GAJ-A03 平行连接接头 Parallel Connector

最大载荷(N)	205	最大载荷(N) Load(Max)	380	载荷方向(Load Direction)	长度 (L)	京次###/DO\ (NI)	
最大载荷(N) Load(Max)	285	单位载荷 UC(N.m) 7.6		横向(Horizontal)	(mm)	容许载荷(PC)(N)	
Fl					100	81	
•		F		,F	200	41	
					300	27	
6					500	16	
					单位容许载荷(UPC) (N.m)	8.1	

#### GAJ-A04 90°交叉接头 Cross Connector

最大载荷(N)	855	载荷方向(Lo	ad Direction)	长度 (L)	容许载荷(PC)(N)	
Load(Max)		竖向 (Vertical)	横向(Horizontal)	(mm)	竖(V)	横(H)
F		F	FI	100	95	62
				200	48	31
				300	31	21
				500	19	12
				单位容许载荷(UPC) (N.m)	9.5	6.2







#### GAJ-A05 平行固定接头 Parallel Holder

最大载荷(N) Load(Max)	912	最大载荷(N)		长度 (L)	容许载荷(PC)(N)	
Load(Max)	912	Load(Max)		横向(Horizontal)	(mm)	台厅\$19(FG)(N)
				3000	100	177
F		F		F	200	86
					300	57
					500	34
					单位容许载荷(UPC) (N.m)	17

#### GAJ-A4545 45°加强接头 Point Connector

最大载荷(N)	1093	载荷方向(Load Direction)		长度 (L)	容许载荷(PC)(N)	
Load(Max)		竖向 (Vertical)	横向(Horizontal)	(mm)	竖(V)	横(H)
E	F		F	100	903	903
, III				200	451	451
			L	300	301	301
	<i>(</i> 1)		8	500	181	181
				单位容许载荷(UPC) (N.m)	90	90

#### GAJ-A02 延长连接接头 Connector Piece

最大载荷(N)	050	载荷方向(Lo	载荷方向(Load Direction)		容许载荷(PC)(N)	
Load(Max)	950	一端 (One Side)	两端(Both Sides)	(mm)	翌	横
F			F	100	124	760
		F		200	62	380
				300	41	254
e.ie				500	25	152
				单位容许载荷(UPC) (N.m)	12	76





GAE-A06 错位辅助接头 Dislocation Appendage



GAJ-A180 180°外接头 Free Connector Outer Type



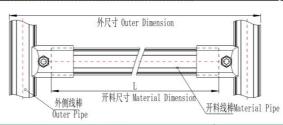
GAJ-B180 180°内接头 Free Connector Inner Type











TT VALUE -		D:	
サ料尺寸	Material	Dime	ension

编号名称(Part Number)		GAJ-A01重 (Multi Connector (	i外接 Dut Type)	GAJ-B01直内接 (Multi Connector Inner Type)		
图例公式(F	ormula)	示意图 (Figure)	计算公式 (Formula)	示意图 (Figure)	计算公式 (Formula)	
线棒系列 Lean Pipe Series	GA28	43.5	L=A-(43.5x2)	43.5	L=A-(43.5x2)	

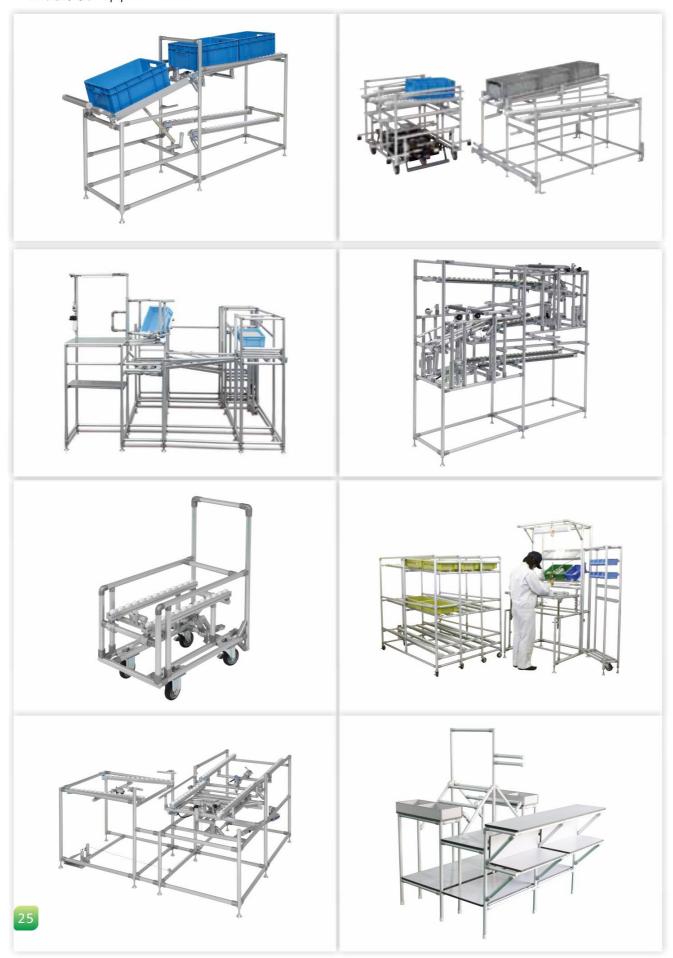
7	-					
编号名称(Part Number)		GAJ-A90° 9 (90 Connector ou	I <b>0°外接</b> Iter Type)	GAJ-B90° 90° 内接 (90 Connector Inner Type)		
图例公式(Formula)		示意图 (Figure)	计算公式 (Formula)	示意图 (Figure)	计算公式 (Formula)	
线棒系列 Lean Pipe Series	GA28	35 28	L=A-(35x2)	44	L=A-(44x2)	

编号名称(Part Number)			GAJ-A45° 4 (45 Connector ou		GAJ-B45° 45°内接 (45 Connector Inner Type)			
图例公式(Formula)		Formula)	示意图 (Figure)	计算公式 (Formula)	示意图 (Figure)	计算公式 (Formula)		
	线棒系列 Lean Pipe Series	GA28		L=(X−7.7)x√2 −(20.5x2)		$L=(X-5.4)x\sqrt{2} \\ -(20.5x2)$		

编号名称(Part Number)		GAJ-A180° 180° 外接 (180 Connector outer Type)		GAJ-B180° 180° 内接 (180 Connector Inner Type)	
图例公式(Formula)		示意图 (Figure)	计算公式 (Formula)	示意图 (Figure)	计算公式 (Formula)
线棒系列 Lean Pipe Series	GA28	30	$L=\sqrt{(X-30)^2+(Y-30)^2} -(26.6x2)$	44 X 30 30 30 30 30 30 30 30 30 30 30 30 30	$L=\sqrt{(X-30)^2+(Y-30)^2} -(26.6x2)$



# 应用案例 Application



应用案例 Application













Professional Aluminium Alloy Lean Pipe Connecting System.