



# functional thinking

TECHNICAL DATA HANDBOOK

(VERSION 210109)

RH has been producing garment accessories for the fashion and workwear industry since 1951, evolving from a family business to a global company with offices all around the world. We are a recognised leader in garment enhancement, bringing commitment and expertise to our extensive range of high quality products. We can serve you from design to distribution where ever your production is in the world.

Our **design** team understands the importance of your brand and whether creating fresh new ideas or working with your own concept, we give you exciting design that is functional and adds value to any garment.

Our **technical** team tests all samples to meet European standards such as OEKO-TEX®. We are happy to conduct additional testing for the customer, and we provide test data and reports for all samples before bulk production.

Our **product** development team, with expertise in production techniques and quality assurance, develops each design into a high quality sample ready for approval & technical testing.

Our **distribution** team, with expertise in regional regulations and local markets, delivers products safely throughout the world whilst constantly striving to reduce both our carbon footprint and yours.

This means we are the only partner you need for all your garment accessories.

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## 1. OBJECTIVE

This Technical Data Handbook is prepared for the purpose of providing premium services to our respected Customers and ensuring our products are performed under the best condition. The goal is to assure appropriate applications and products' quality.

## 2. TERMINOLOGY

**2.1 Basic Pinch :** Height of the entire product after attaching without considering the *Fabric Thickness*.

(This figure is for calculation only. Product attached under this condition might be distorted since *Fabric Thickness* is not being considered.)

**2.2 Fabric Thickness :** The appropriate fabric thickness's for the product to attach, ranging from the thinnest to the thickest fabric application. Micrometer should be used for the measurement of the *Fabric Thickness*.

(When the *Fabric Thickness* is very close to its highest or lowest limit, fix dies' setting has to be very precise.)

**2.3 Setting Pinch :** Sum of *Basic Pinch* and *Fabric Thickness*, which is the actual height of the entire product required for attaching the product onto the fabric.

**2.4 Holding Strength :** The force of de-snapping the attached products under specific time period.

**2.5 Attachment Strength :** The force of separating the attached parts of the product.

**2.6 Separation Force :** The actual snap & de-snap forces of the stud & socket after all parts are being attached onto the Garment.

## 3. APPLICATION PROCEDURES :

**3.1** Measure the *Fabric Thickness* with Micrometer on the area that products are required to be attached.

**3.2** To obtain the actual *Setting Pinch* figure by getting the sum of the *Basic Pinch* & the *Fabric Thickness*.

**3.3** Getting the required height of the entire product according to the *Setting Pinch* figure, adjust the fix dies' distance.

**3.4** Test with fabric to obtain optimum condition. Sometimes fine tuning might result in better performance. After going through all the above procedures and confirm no defects, bulk attaching can be taken place.

## REMARKS :

1. When measuring the *Fabric Thickness*, Micrometer should be screwed to the highest pressure on the fabric. Figures will be more accurate by using specified Micrometer.

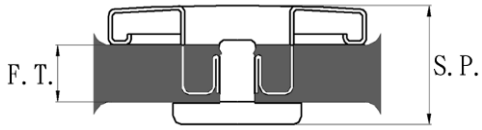
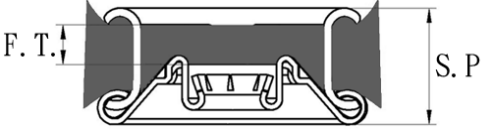
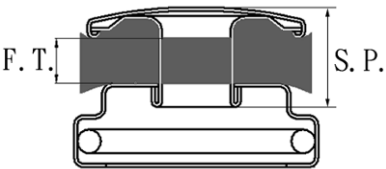
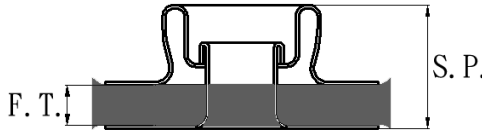
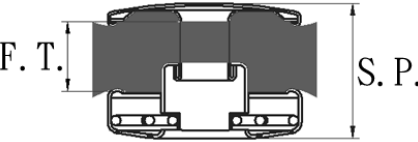
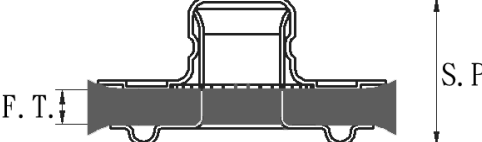
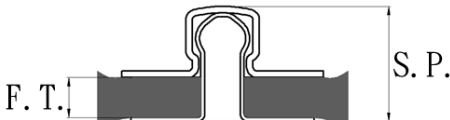

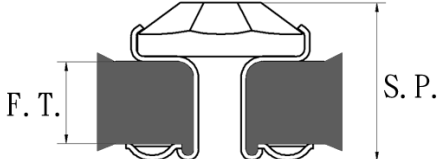



2. Figures in this Technical Data Handbook are all based on flat cap products. For products with dome cap, corresponding dome height should be added to obtain the right *Setting Pinch*.

3. *Attachment Strength* stated in this Handbook is the lowest value. The highest limit is usually 20% higher than the lowest figure.

4. Figures in this Technical Data Handbook are measured under our standard condition, accuracy can reach 99.8%.

**For products that are not covered in this handbook, or particular fabric and machines that the provided data are not applicable. Kindly contact us for further assistance.**

# Graphic Illustration

<p><b>Jeans Buttons 牛仔钮</b></p> 	<p><b>Pronged Snap Fasteners 五爪钮</b></p> 
<p><b>Ring type (#405, 406) Snap Fastener (Part-AB) 车蓬唛钮(#405, 406) AB件</b></p> 	<p><b>Ring type (#405, 406) Snap Fastener (Part-CD) 车蓬唛钮(#405, 406) CD件</b></p> 
<p><b>Spring type (e.g.#280,380)Snap Fastener(Part-AB) 弹弓唛钮(如#280,380) AB件</b></p> 	<p><b>Spring type (e.g.#280,380)Snap Fastener(Part-CD) 弹弓唛钮(如#280,380)CD件</b></p> 
<p><b>Rivets 袋口钉</b></p> 	<p><b>Eyelet 鸡眼</b></p> 
<p><b>Rhinestone Rivet w/Washer 胶石撞钉配介子</b></p> 	<p><b>Alloy Metal Plate 合金牌</b></p> 
<p><b>Dress Hooks (Part-AB) 裤扣AB件</b></p> 	<p><b>Dress Hooks (Part-CD) 裤扣CD件</b></p> 

**Remark:**

F.T. = Fabric Thickness

S. P. = Setting Pinch

# Jeans Buttons

Style No. 类别	Tack 配钉	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
N-1	Capped Brass/Iron Twin Prong Tack 杯杯铜/铁双脚钉	10.5	0.2 - 1.2	10.7 - 11.7	> 20
N-2	Capped Brass Movable Nail / Alum Movable Nail 杯杯铜/铝转动钉	8.0	0.4 - 1.5	8.4 - 9.5	>25
N-2W	Special Brass Post 专用铜底笛 (11874W)	7.0	0.2 - 1.2	7.2 - 8.2	>20
N-3	Brass/Alum Arrow Tack 铜/铝箭咀钉	9.9	0.4 - 1.2	10.3 - 11.1	>30
N-4	Brass/Alum Arrow Tack 铜/铝箭咀钉	10.2	0.4 - 1.2	10.6 - 11.4	>30
N-5	Alum 815 Nail/Alum Sword Nail/Brass Capped Single Tack 铝双截钉/铝闸咀钉/ 杯杯铜双截钉	9.2	0.4 - 2.0	9.6 - 11.2	>30
N-5A	Alum 815 Nail 铝双截钉	9.8	0.4 - 1.8	10.2 - 11.6	>30
N-5B	Alum Movable Nail 铝转动钉	9.8	0.4 - 1.8	10.2 - 11.6	>30
N-9	Special Iron Twin Prong Tack 专用铁双脚钉	7.5	0.4 - 1.2	7.9 - 8.7	>15
	Capped Brass Twin Prong Tack 杯杯铜双脚钉	7.5	0.4 - 1.2	7.9 - 8.7	>15

# Jeans Buttons

Style No. 类别	Tack 配钉	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
N-9H	Capped Brass/Iron Twin Prong Tack 杯杯铜/铁双脚钉	6.7	0.4 - 1.2	7.1 - 7.9	>15
N-10	Capped Brass/Iron Twin Prong Tack 杯杯铜/铁双脚钉	7.2	0.4 - 1.2	7.6 - 8.4	>15
N-10H	Capped Brass/Iron Twin Prong Tack 杯杯铜/铁双脚钉	6.5	0.4 - 1.2	6.9 - 7.7	>15
N-11	Alum Movable Nail 铝转动钉	6.9	0.5 - 1.2	7.4 - 8.1	>20
N-11A	Alum 815 Nail 铝双截钉	6.9	0.5 - 1.2	7.4 - 8.1	>20
N-12	Capped Brass Movable Nail/ Alum Movable Nail/ Alum 815 Nail 杯杯铜转动钉/铝转动钉/ 铝双截钉	8.4	0.5 - 1.2	8.9 - 9.6	>20
N-12B	Capped Brass Movable Nail/ Alum Movable Nail/ Alum 815 Nail 杯杯铜转动钉/铝转动钉/ 铝双截钉	9.9	0.5 - 1.2	10.4 - 11.1	>20

# Rivets



Style No. 类别	Brass Nail / 铜尖钉 6.5mm				Brass Nail / 铜尖钉 8.0mm				Aluminium Nail / 铝尖钉 6.5mm				Aluminium Nail / 铝尖钉 8.5mm			
	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
RT-1	3.7	0.4-1.2	4.1-4.9	>30	4.5	1.0-2.0	5.5-6.5	>30	4.3	0.2-1.0	4.5-5.3	>30	4.5	1.1-2.0	5.6-6.5	>30
RT-1A	3.7	0.4-1.2	4.1-4.9	>30	4.6	1.0-2.0	5.6-6.6	>30	4.3	0.2-1.0	4.5-5.3	>30	4.3	1.1-2.0	5.4-6.3	>30
RT-1B	3.7	0.4-1.2	4.1-4.9	>30	4.6	1.0-2.0	5.6-6.6	>30	4.4	0.2-1.0	4.6-5.4	>30	5.2	1.1-2.0	6.3-7.2	>30
RT-1D	4.4	0.4-1.2	4.8-5.6	>30	4.8	1.0-2.0	5.8-6.8	>30	4.6	0.2-0.6	4.8-5.2	>30	5.2	1.1-2.0	6.3-7.2	>30
RT-1E	4.1	0.4-1.2	4.5-5.3	>30	4.5	1.2-2.0	5.7-6.5	>30	4.3	0.2-0.6	4.5-4.9	>30	5.1	1.1-2.0	6.2-7.1	>30
RT-1K	4.0	0.4-1.2	4.4-5.2	>30	4.4	1.2-2.0	5.6-6.4	>30	4.3	0.2-1.0	4.5-5.3	>30	4.8	1.1-2.0	5.9-6.8	>30
RT-1S	4.1	0.4-1.2	4.5-5.3	>30	4.4	1.2-2.0	5.6-6.4	>30	4.3	0.2-1.0	4.5-5.3	>30	4.7	1.1-2.0	5.8-6.7	>30
RT-1V	4.1	0.4-1.2	4.5-5.3	>30	4.4	1.2-2.0	5.6-6.4	>30	4.3	0.2-1.0	4.5-5.3	>30	4.7	1.1-2.0	5.8-6.7	>30
RT-2	3.2	0.4-1.2	3.6-4.4	>30	3.5	1.2-2.0	4.7-5.5	>30	3.4	0.2-1.0	3.6-4.4	>30	3.8	1.1-2.0	4.9-5.8	>30
RT-2C	3.5	0.4-1.2	3.9-4.7	>30	3.8	1.2-2.0	5.0-5.8	>30	4.3	0.2-1.0	4.5-5.3	>30	4.3	1.1-2.0	5.4-6.3	>30
RT-2D	3.7	0.4-1.2	4.1-4.9	>30	4.0	1.2-2.0	5.2-6.0	>30	4.1	0.2-1.0	4.3-5.1	>30	4.3	1.1-2.0	5.4-6.3	>30
RT-2V	3.2	0.4-1.2	3.6-4.4	>30	3.6	1.2-2.0	4.8-5.6	>30	3.8	0.2-1.0	4.0-4.8	>30	3.6	1.1-2.0	4.7-5.6	>30
RT-3	4.2	0.4-1.2	4.6-5.4	>30	4.4	1.2-2.0	5.6-6.4	>30	4.3	0.2-1.0	4.5-5.3	>30	4.7	1.1-2.0	5.8-6.7	>30
RT-4	2.6	0.4-1.2	3.0-3.8	>30	2.9	1.2-2.0	4.1-4.9	>30	2.6	0.2-1.0	2.8-3.6	>30	3.2	1.2-2.0	4.4-5.2	>30
RT-4V	-	-	-	-	-	-	-	-	5.2	0.2-1.0	5.4-6.2	>30	-	-	-	-
Style No. 类别	Brass Nail / 铜尖钉 6.5mm				Brass Nail / 铜尖钉 8.0mm				Aluminium Nail / 铝尖钉 6.5mm				Aluminium Nail / 铝尖钉 8.5mm			
	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
RT-5 (Flat 平面)	2.6	0.8-1.5	3.4-4.1	>30	2.9	1.5-2.5	4.4-5.4	>30	2.9	0.6-1.5	3.5-4.4	>30	3.5	1.5-2.5	5.0-6.0	>30
RT-5 (06 Dome 凸面)	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.2	0.6-1.5	3.8-4.7	>30	3.8	1.5-2.5	5.3-6.3	>30
RT-5 (07 Dome 凸面)	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.2	0.6-1.5	3.8-4.7	>30	3.8	1.5-2.5	5.3-6.3	>30
RT-5A	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.0	0.6-1.5	3.6-4.5	>30	3.6	1.5-2.5	5.1-6.1	>30
RT-5B	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.2	0.6-1.5	3.8-4.7	>30	3.8	1.5-2.5	5.3-6.3	>30
RT-5D	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.3	0.6-1.5	3.9-4.8	>30	3.7	1.5-2.5	5.2-6.2	>30
RT-5E	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.4	0.6-1.5	4.0-4.9	>30	4.0	1.5-2.5	5.5-6.5	>30
RT-5V	2.9	0.8-1.5	3.7-4.4	>30	3.2	1.5-2.5	4.7-5.7	>30	3.2	0.6-1.5	3.8-4.7	>30	3.8	1.5-2.5	5.3-6.3	>30
RT-6	2.8	0.4-1.2	3.2-4.0	>30	3.1	1.2-2.5	4.3-5.6	>30	2.8	0.2-1.2	3.0-4.0	>30	3.4	1.2-2.5	4.6-5.9	>30
RT-6D	3.3	0.4-1.2	3.7-4.5	>30	3.6	1.2-2.5	4.8-6.1	>30	3.4	0.2-1.2	3.6-4.6	>30	3.9	1.2-2.5	5.1-6.4	>30
RT-6E	3.2	0.4-1.2	3.6-4.4	>30	3.5	1.2-2.5	4.7-6.0	>30	3.4	0.2-1.5	3.6-4.9	>30	3.8	1.5-2.5	5.3-6.3	>30
RT-6P	5.0	0.8-1.5	5.8-6.5	>30	5.3	1.5-2.5	6.8-7.8	>30	-	-	-	-	-	-	-	-
RT-6V	-	-	-	-	3.5	1.2-2.5	4.7-6.0	>30	3.4	0.2-1.5	3.6-4.9	>30	-	-	-	-
RT-6PS	3.3	0.4-1.2	3.7-4.5	>30	-	-	-	-	-	-	-	-	-	-	-	-
RT-7	3.4	0.4-1.2	3.8-4.6	>30	3.8	1.2-2.0	5.0-5.8	>30	-	-	-	-	-	-	-	-
RT-8V	-	-	-	-	-	-	-	-	3.4	0.2-1.2	3.6-4.6	>30	-	-	-	-
Style No. 类别	Brass Nail / 铜尖钉 5.0mm				Brass Nail / 铜尖钉 6.5mm				Capped Twin Prong Tack / 杯杯铜双脚钉Φ9.3x8.85mm				Capped Twin Prong Tack / 杯杯铜双脚钉Φ9.3x9.0mm			
	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
RT-1S	4.1	0.2-0.4	4.3-4.5	>30	4.1	0.4-1.2	4.5-5.3	>30	-	-	-	-	-	-	-	-
RT-9	-	-	-	-	-	-	-	-	4.0	0.4-1.2	4.4-5.2	>20	-	-	-	-
RT-9A	-	-	-	-	-	-	-	-	4.0	0.4-1.2	4.4-5.2	>20	-	-	-	-
RT-9V	-	-	-	-	-	-	-	-	4.0	0.4-1.2	4.4-5.2	>20	-	-	-	-
RT-10	-	-	-	-	-	-	-	-	-	-	-	-	3.9	0.4-1.2	4.3-5.1	>20
RT-10A	-	-	-	-	-	-	-	-	4.0	0.4-1.2	4.4-5.2	>20	3.9	0.4-1.2	4.3-5.1	>20
Style No. 类别	Special Brass Nail / 专用铜尖钉 Φ7x5.0mm				Special Brass Nail / 专用铜尖钉 Φ7x6.5mm				Special Brass Nail / 专用铜尖钉 Φ7x6.0mm				Solid Copper Nail / 红铜实心切钉Φ9x8.5mm			
	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
RT-1P	-	-	-	-	-	-	-	-	3.7	0.4-1.0	4.1-4.7	>15	-	-	-	-
RT-1R	3.6	0.2-0.4	3.8-4.0	>30	3.6	0.4-1.2	4.0-4.8	>30	-	-	-	-	-	-	-	-
RT-4A	-	-	-	-	3.0	0.5-1.0	3.5-4.0	>30	-	-	-	-	-	-	-	-
RT-8	-	-	-	-	-	-	-	-	-	-	-	-	2.5	1.2-2.0	3.7-4.5	>30
RT-8B	-	-	-	-	-	-	-	-	-	-	-	-	2.4	1.2-2.0	3.6-4.4	>30
RT-8C	-	-	-	-	-	-	-	-	-	-	-	-	3.3	1.2-2.0	4.5-5.3	>20

Remarks : Pre-pierce the hole is necessary for RT-2 & RT-2D when attach with Aluminum Nail.

备注：以上RT-2、RT-2D产品配铝钉时，须先将布开孔后装钉。

# Snap Fasteners

Style No. 类别	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)		Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Snapping Force 压合力 (kg)	Unsnapping Force 拔开力 (kg)
		Normal Post 普通面笛	Long Post 长面笛				
280 (A / B) 10/11.5/12/12.5/13/ 14/15/17/18/19/20/21/ 22/23/25/27/30/40mm	5.1	0.2 - 0.5	0.5 - 1.2	5.3 - 6.3	> 20	4.0 - 7.0	2.0 - 4.0
280 (C / D)	4.3	0.2 - 1.2		4.5 - 5.5	> 20	4.0 - 7.0	2.0 - 4.0
280M (C / D)	4.3	0.2 - 1.2		4.5 - 5.5	>20	4.0 - 7.0	2.0 - 4.0
#280: Pre-pierce the hole is necessary / 打钮前必须先开孔							
380 (A / B) 10/11.5/12/12.5/13/14 15/17/18/19/20/21/ 22/23/25/27/30/40mm	5.4	0.2 - 0.5	0.5 - 1.2	5.6 - 6.6	>20	5.0 - 7.0	2.0 - 4.0
380S (A / B)	5.4	0.2 - 0.5	0.5 - 1.2	5.6 - 6.6	>20	5.0 - 7.0	2.0 - 4.0
380 (C / D)	4.7	0.2 - 1.2		4.9 - 5.9	>20	5.0 - 7.0	2.0 - 4.0
380M (C / D)	4.7	0.2 - 1.2		4.9 - 5.9	>20	5.0 - 7.0	2.0 - 4.0
380U (C / D)	4.9	0.2 - 1.2		5.1 - 6.1	>20	5.0 - 7.0	2.0 - 4.0
380SC (A / B)	5	0.2 - 1.2		5.2 - 6.2	>20	5.0 - 7.0	2.0 - 4.0
380SC (C / D)	4.7	0.2 - 1.2		4.9 - 5.9	>20	5.0 - 7.0	2.0 - 4.0
#380: Pre-pierce the hole is necessary for Fabric Thickness above 1.0mm布厚多于1.0mm必需先开孔, 后打钮扣							
406 (A / B) 10/11.5/12/12.5/13/14/15/ 17/18/19/20/21/ 22/23/25/27/30/40mm	2	0.2 - 0.5	0.5 - 1.2	2.2 - 3.2	>20	5.0 - 7.0	2.0 - 4.0
406 (C / D)	4.7	0.2 - 1.2		4.9 - 5.9	>20	5.0 - 7.0	2.0 - 4.0
#406: Pre-pierce the hole is necessary for Fabric Thickness above 1.0mm布厚多于1.0mm必需先开孔, 后打钮扣							
405 (A / B) 14/15/17/18/20/21/ 22/23/25/27/30/40mm	2.2	0.2 - 0.5	0.5 - 1.0	2.4 - 3.2	>20	6.0 - 9.0	2.0 - 4.0
405 (C / D)	4.7	0.2 - 1.0		4.9 - 5.7	>20	6.0 - 9.0	2.0 - 4.0
#405: Pre-pierce the hole is necessary for Fabric Thickness above 1.0mm布厚多于1.0mm必需先开孔, 后打钮扣							
405W (A / B) 14/15/17/18/20/21/ 22/23/25/27/30/40mm	2.2	0.2 - 0.5	0.5 - 1.0	2.4 - 3.2	>20	6.0 - 9.0	2.0 - 4.0
405W (C / D)	4.7	0.2 - 1.0		4.9 - 5.7	>20	6.0 - 9.0	2.0 - 4.0
#405W: Pre-pierce the hole is necessary for Fabric Thickness above 1.0mm布厚多于1.0mm必需先开孔, 后打钮扣							

# Snap Fasteners



Style No. 类别	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)		Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Snapping Force 压合力 (kg)	Unsnapping Force 拔开力 (kg)
		Normal Post 普通面笛	Long Post 长面笛				
500 (A/B) 14/15/17/18//20/21/ 22/23/25/27/30/40mm	5.8	0.2 - 0.5	0.2 - 1.0	6.0 - 6.8	> 20	5.0 - 7.0	2.0 - 4.0
500 (C/D)	5.3	0.2 - 1.0		5.5 - 6.3	> 20	5.0 - 7.0	2.0 - 4.0
#500: Pre-pierce the hole is necessary / 打钮前必须先开孔							
501 (A/B) 10mm	5.1	0.2 - 0.4	0.4 - 1.0	5.3 - 6.1	>15	4.0 - 6.0	1.0 - 3.0
501 (A/B) 12.5mm	5.3	0.2 - 0.4	0.4 - 1.0	5.5 - 6.3	>15	4.0 - 6.0	1.0 - 3.0
501 (C/D)	3.8	0.2 - 0.4	0.4 - 1.0	4.0 - 4.8	>15	4.0 - 6.0	1.0 - 3.0
#501: Pre-pierce the hole is necessary / 打钮前必须先开孔							
502 (A/B) 10/12.5mm	4.2	0.2 - 0.5		4.4 - 4.7	>12	4.0 - 6.0	1.0 - 3.0
502 (C/D)	3.5	0.2 - 0.5		3.7 - 4.0	>12	4.0 - 6.0	1.0 - 3.0
#502: Pre-pierce the hole is necessary / 打钮前必须先开孔							
901 (A/B) 16/18mm	4.5	0.2 - 0.7		4.7 - 5.2	>20	4.0 - 6.0	2.0 - 4.0
901 (C/D/E)	7	0.2 - 0.7		7.2 - 7.7	>20	4.0 - 6.0	2.0 - 4.0
#901: Pre-pierce the hole is necessary / 打钮前必须先开孔							
901B (A/B) 16/18mm	5.7	0.2 - 0.7		5.9 - 6.4	>20	4.0 - 6.0	2.0 - 4.0
901B (C/D)	7	0.2 - 0.7		7.2 - 7.7	>20	4.0 - 6.0	2.0 - 4.0
#901B: Pre-pierce the hole is necessary / 打钮前必须先开孔							
906 (A/B) 15mm	4.5	0.2 - 0.7		4.7 - 5.2	>20	4.0 - 6.0	2.0 - 4.0
906 (C/D)	6.1	0.2 - 0.7		6.3 - 6.8	>20	4.0 - 6.0	2.0 - 4.0
#906: Pre-pierce the hole is necessary / 打钮前必须先开孔							

Remarks : Figures are based on Normal Cap Post. For Fabric Thickness that exceeded our limit, please contact us for further information

备注：以上急钮产品为配普通面笛测试之参数。如布厚超过我司范围，可联络我们进行测试以建议合适之规格。

# Pronged Snap Fasteners



Style No. 类别	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Snapping Force 压合力 (kg)	Unsnapping Force 拔开力 (kg)	Holding Strength 持续力 (kg/10s)
111 (A / B)	1.9	0.2 - 0.4	2.1 - 2.3	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111C (A / B)	2.5	0.2 - 0.4	2.7 - 2.9	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111P (A / B)	4.1	0.2 - 0.5	4.3 - 4.6	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111/111C/111P (C / D)	1.9	0.2 - 0.4	2.1 - 2.3	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111D (A / B)	2.2	0.2 - 0.5	2.4 - 2.7	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111DC (A / B)	2.5	0.2 - 0.5	2.7 - 3.0	> 8	5.0 - 7.0	1.5 - 2.5	> 8
111D/111DC (C / D)	2.1	0.2 - 0.5	2.3 - 2.6	> 8	5.0 - 7.0	1.5 - 2.5	> 8
222 (A / B)	2.2	0.2 - 0.5	2.4 - 2.7	> 9	5.0 - 7.0	1.5 - 3.0	> 8
222C (A / B)	2.6	0.2 - 0.5	2.8 - 3.1	> 9	5.0 - 7.0	1.5 - 3.0	> 8
222P (A / B)	2.4	0.2 - 0.5	2.6 - 2.9	> 9	5.0 - 7.0	1.5 - 3.0	> 8
222C9 (A / B)	2.6	0.2 - 0.5	2.8 - 3.1	> 9	5.0 - 7.0	1.5 - 3.0	> 8
222/222C/222P/222C9 (C / D)	2.1	0.2 - 0.5	2.3 - 2.6	> 9	5.0 - 7.0	1.5 - 3.0	> 8
222 (A / B) long prong 长爪	2.2	0.5 - 0.7	2.7 - 2.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
222 (C / D) long prong 长爪	2.2	0.5 - 0.7	2.7 - 2.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333 (A / B)	2.4	0.2 - 0.7	2.6 - 3.1	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333C (A / B) 11.5/12/12.5/14/15/17mm	3.2	0.2 - 0.7	3.4 - 3.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333CSQ (A / B)	3.2	0.2 - 0.7	3.4 - 3.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) 10.5mm	4.3	0.2 - 0.7	4.5 - 5.0	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) 11.5mm	4.8	0.2 - 0.7	5.0 - 5.5	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) 14mm	4.8	0.2 - 0.7	5.0 - 5.5	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) 15mm	4.8	0.2 - 0.7	5.0 - 5.5	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) Square 正方形	5.2	0.2 - 0.7	5.4 - 5.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) Hexagon 六角形	5.2	0.2 - 0.7	5.4 - 5.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333P (A / B) Octagon 八角形	5.2	0.2 - 0.7	5.4 - 5.9	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333/333C/333CSQ/333P (C / D)	2.3	0.2 - 0.7	2.5 - 3.0	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333 (A / B) long prong 长爪	2.7	0.7 - 1.1	3.4 - 3.8	> 12	5.0 - 7.0	1.5 - 3.0	> 8
333 (C / D) long prong 长爪	2.6	0.7 - 1.1	3.3 - 3.7	> 12	5.0 - 7.0	1.5 - 3.0	> 8

# Pronged Snap Fasteners



Style No. 类别	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)	Snapping Force 压合力 (kg)	Unsnapping Force 拔开力 (kg)	Holding Strength 持续力 (kg/10s)
333S ( A / B )	2.3	0.2 - 0.7	2.5 - 3.0	> 9	5.0 - 7.0	1.5 - 3.0	> 8
333SC ( A / B )	2.9	0.2 - 0.7	3.1 - 3.6	> 9	5.0 - 7.0	1.5 - 3.0	> 8
333S/333SC ( C / D )	2.3	0.2 - 0.7	2.5 - 3.0	> 9	5.0 - 7.0	1.5 - 3.0	> 8
444 ( A / B )	3.2	0.4 - 1.0	3.6 - 4.2	> 12	4.0 - 7.0	2.0 - 4.0	> 8
444C ( A / B )	3.2	0.4 - 1.0	3.6 - 4.2	> 12	4.0 - 7.0	2.0 - 4.0	> 8
444 ( C / D )	3.1	0.4 - 1.0	3.5 - 4.1	> 12	4.0 - 7.0	2.0 - 4.0	> 8
555 ( A / B )	3.6	0.4 - 1.0	4.0 - 4.6	> 14	4.0 - 7.0	2.0 - 4.0	> 8
555C ( A / B )	4.2	0.4 - 1.0	4.6 - 5.2	> 14	4.0 - 7.0	2.0 - 4.0	> 8
555/555C ( C / D )	3.6	0.4 - 1.0	4.0 - 4.6	> 14	4.0 - 7.0	2.0 - 4.0	> 8
777 ( A / B )	5.9	1.0 - 1.6	6.9 - 7.5	> 14	8.0 - 10.0	4.0 - 8.0	> 8
777 ( C / D )	5.7	1.0 - 1.6	6.7 - 7.3	> 14	8.0 - 10.0	4.0 - 8.0	> 8
902 ( A / B )	3.7	0.2 - 0.7	3.9 - 4.4	> 12	5.0 - 7.0	2.0 - 4.0	> 8
902 ( C / D )	6.8	0.2 - 0.7	7.0 - 7.5	> 12	5.0 - 7.0	2.0 - 4.0	> 8
903 ( A / B )	3.4	0.2 - 0.7	3.6 - 4.1	>12	5.0 - 7.0	2.0 - 4.0	>8
903 ( C / D )	6.3	0.2 - 0.7	6.5 - 7.0	>12	5.0 - 7.0	2.0 - 4.0	>8

Remarks : When doing pronged snaps (#111, #222 & #333) Separation Strength test on thin garment, fabric might be torn occasionally and the entire button might be pulled out.

备注：以上五爪钮#111、#222、#333产品在使用一般薄布衣料试打测试时，或会有拉破布，整粒钮扣产品被拉掉的情况。

# Eyelets

Style No. 类别	Material 材料	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)
Pre-pierce the hole is necessary / 打钮前必须先开孔				
#2	Brass / 铜	2.2	0.2 - 0.6	2.4 - 2.8
#3	Brass / 铜	1.8	0.2 - 0.6	2.0 - 2.4
#4	Brass / 铜	1.6	0.2 - 0.6	1.8 - 2.4
#20	Brass / 铜	2.4	0.2 - 0.6	2.6 - 3.0
#22	Brass / 铜	2.4	0.2 - 0.6	2.6 - 3.0
#23	Brass / 铜	2.4	0.2 - 0.6	2.6 - 3.0
#24	Brass / 铜	2.5	0.2 - 0.6	2.7 - 3.1
#25	Brass / 铜	2.7	0.2 - 0.6	2.9 - 3.3
#26	Brass / 铜	2.9	0.2 - 1.0	3.1 - 3.9
#27	Brass / 铜	2.9	0.2 - 1.0	3.1 - 3.9
#28	Brass / 铜	2.9	0.2 - 1.0	3.1 - 3.9
#30	Brass / 铜	3.5	0.2 - 1.0	3.7 - 4.5
#35	Brass / 铜	4.1	0.2 - 1.0	4.3 - 5.1
#38	Brass / 铜	4.2	0.2 - 1.0	4.4 - 5.2
#62	Brass / 铜	6.0	0.2 - 1.0	6.2 - 7.0
#62S	Brass / 铜	6.0	0.2 - 1.2	6.2 - 7.2
#4 Cut Edge 開花	Brass / 铜	1.8	0.2 - 0.6	2.0 - 2.4
6.8mm Cut Edge 開花 (Iron鐵)	Iron / 鐵	1.3	0.2 - 0.4	1.5 - 1.7
#4 Flower 花形	Brass / 铜	2.4	0.2 - 0.6	2.6 - 3.0
#19 Flower 花形	Brass / 铜	2.6	0.2 - 0.8	2.8 - 3.4
#22 Capped Mesh 綵面網形	Brass / 铜	2.4	0.2 - 0.6	2.6 - 3.0
#25 Stripe 條形	Brass / 铜	2.5	0.2 - 0.6	2.7 - 3.1
#16 Oval 橢圓形	Brass / 铜	2.5	0.2 - 0.6	2.7 - 3.1
17mm Oval 橢圓形	Brass / 铜	2.6	0.2 - 0.8	2.8 - 3.4
#35 Oval 橢圓形	Brass / 铜	3.7	0.2 - 1.0	3.9 - 4.7
Key Hole 鎖匙形	Brass / 铜	2.0	0.2 - 0.4	2.2 - 2.4
Teardrop 眼淚形	Brass / 铜	1.6	0.2 - 0.4	1.8 - 2.0
21mm Triangle 三角形	Brass / 铜	2.7	0.2 - 0.6	2.9 - 3.3
17mm Triangle 三角形	Brass / 铜	2.5	0.2 - 0.6	2.7 - 3.1
12.5mm Triangle 三角形	Brass / 铜	2.2	0.2 - 0.6	2.4 - 2.8
28mm Double Triangle 雙三角形	Brass / 铜	2.2	0.2 - 0.6	2.4 - 2.8

## Rhinestone Rivets w/washer



Style No. 类别	Material 材料	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
Pre-pierce the hole is necessary / 打钮前必须先开孔					
6mm	Brass / 铜	3.3	0.2 - 0.6	3.5 - 3.9	> 13
7mm	Brass / 铜	3.4	0.2 - 1.0	3.6 - 4.4	> 13
8mm	Brass / 铜	3.4	0.2 - 1.0	3.6 - 4.4	> 13
9mm	Brass / 铜	4.0	0.2 - 1.2	4.2 - 5.2	> 20

## Alloy Metal Plates



Style No. 类别	Material 材料	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
Pre-pierce the hole is necessary / 打钮前必须先开孔					
3mm	Zinc Alloy / 锌合金	3.0	0.5 - 1.0	3.5 - 4.0	> 15
4mm	Zinc Alloy / 锌合金	3.5	1.0 - 1.5	4.5 - 5.0	> 15
5mm	Zinc Alloy / 锌合金	3.6	1.5 - 2.0	5.1 - 5.6	> 15

Remarks: The above figures are based on Alloy Plate's thickness: 1.5mm; Alloy Back Plate's thickness: 1.0mm.

备注: 以上为合金面厚度1.5mm、合金底牌厚度1.0mm之测试参数值。

# Hook and Bar (Dress Hook)

Style No. 类别	Material 材料	Basic Pinch 基本系数 (mm)	Applicable Fabric Thickness 适用布厚 (mm)	Setting Pinch 总压力系数 (mm)	Separation Strength 破坏力 (kg)
915 Brass / 铜	A / B	5.4	0.2 - 1.0	5.6 - 6.4	> 20
	C / D	2.0	0.2 - 1.0	2.2 - 3.0	> 20
925 Brass / 铜	A / B	4.8	0.2 - 0.9	5.0 - 5.7	> 10
	C / D	3.8	0.2 - 1.0	4.0 - 4.8	> 6
936 Brass / 铜	A / B	2.8	0.2 - 1.0	3.0 - 3.8	> 20
	C / D	4.2	0.2 - 1.0	4.4 - 5.2	> 10
936A Brass / 铜	A / B	2.4	0.2 - 1.0	2.6 - 3.4	> 10
	C / D	3.7	0.2 - 0.7	3.9 - 4.4	> 6
946 Brass / 铜	A / B	2.3	0.2 - 0.7	2.5 - 3.0	> 10
	C / D	4.0	0.2 - 0.7	4.2 - 4.7	> 9
955G Iron / 铁	A / B	3.0	0.2 - 1.0	3.2 - 4.0	> 20
	C / D	3.8	0.2 - 0.7	4.0 - 4.5	> 10
956 Iron / 铁	A / B	4.5	0.2 - 1.0	4.7 - 5.5	> 10
	C / D	3.6	0.2 - 1.0	3.8 - 4.6	> 6
966G Iron / 铁	A / B	4.5	0.2 - 1.0	4.7 - 5.5	> 20
	C / D	4.3	0.2 - 0.7	4.5 - 5.0	> 10
967 (987) Iron / 铁	A / B	2.4	0.4 - 1.0	2.8 - 3.4	> 10
	C / D	3.6	0.4 - 1.0	4.0 - 4.6	> 8
986 Iron / 铁	A / B	2.3	0.2 - 0.7	2.5 - 3.0	> 20
	C / D	3.7	0.2 - 0.7	3.9 - 4.4	> 10
988 Brass / 铜	A / B	4.3	0.2 - 1.0	4.5 - 5.3	> 10
	C / D	3.7	0.2 - 0.7	3.9 - 4.4	> 6
989 Brass / 铜	A / B	3.2	0.2 - 0.7	3.4 - 3.9	> 10
	C / D	3.5	0.2 - 0.7	3.7 - 4.2	> 6

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