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**SUTURE**



山东海迪科医用制品有限公司  
SHANDONG HAIKEDI MEDICAL PRODUCTS CO., LTD.

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## Company Introduction:

Shandong Haidike Medical Products Co., Ltd. is specializing in the production of medical consumables, established in 2012 with a registered capital of 30 million. The main products are absorbable surgical suture with needle (Plain / Chromic Catgut, PGA, PDO, PGLA, PGCL, etc.), non-absorbable surgical suture with needle (Silk, Nylon, Polyester, Polypropylene etc.), suture materials, cassette sutures and surgical needle (300SS and 400SS Series), lifting threads for beauty, medical facial mask, orthopedic casting tapes & splints, plaster, IV cannula, polypropylene meshes and absorbable bone nails and so on.

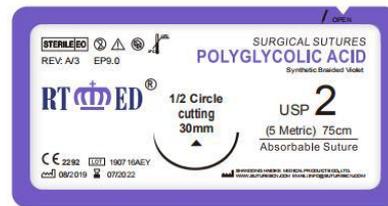
We have approved ISO13485 international quality system certificate, CE and FDA certificates, and obtained the "Medical Device Manufacturing Enterprise License" and "Medical Device Registration Certificate". We have Asia's largest catgut plant, and is the core enterprise of the surgical absorbable sutures characteristic industrial base in the National Torch Project. The products are exported to Asia, Europe, Latin America, Africa, Middle East and other more than 70 countries and regions all over the world.

Managing Director Mr. Cheng Guangqi is the "Taishan Industry Leading Talent" and has established long-term cooperative relations with domestic and foreign universities and research institutions such as Tsinghua University. Based on the corporate philosophy of "quality-oriented, technological innovation, integrity, creating a better future", we sincerely hope to cooperate with you to create a brilliant future!



# Products introduction

## Absorbable PGA Suture



**Structure:** braided

**Chemical composition:** 100% polyglycolic acid coating poly lactone + calcium stearate

**Color:** purple or undyed

**Dye:** D & C Violet (FDA approved dye).

**Sterilization method:** EO Gas

**Validity:** 3 years

**Size:** USP2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0, 8/0

metric 5 – metric 0.4

Without needle---150cms--180cms

With needle ---Thread length from 20cmto 180cm,needle length from 12mmto 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle,

**Package:**

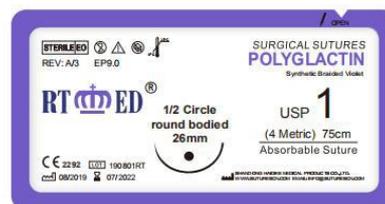
Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

- 1, the line surface coating treatment, the suture is more smooth, smooth through the human body, not easily attached to the bacteria, the wound infection rate to a minimum.
- 2, suture soft, easy to operate, knot solid, tensile strength.
- 3, can be a simple hydrolysis process by the body stable absorption, small tissue reaction. Early absorption, suture tension decreased, and then all the sutures were absorbed.
- 4, the general absorbable suture (PGA) 28 days loss of tension, loss of tension of the PGA line 60-90 days will be completely absorbed; fast absorption suture (RPGA) 10-14 days of loss of tension, loss of tension RPGA line 40 days Was completely absorbed. In this case,
- 5, the absorption of 60 to 90 days of complete hydrolysis
- 6, the general scope of application, gastrointestinal, urinary, gynecological, ophthalmology

**Absorbable PGLA Suture**



**Structure:** braided

**Chemical composition:** Ethylene glycolide polymer

**Dye:** Ethylene lactide polymer + magnesium stearate

**Color:** purple or undyed

**Sterilization method:** EO Gas

**Validity:** 3 years

**Size:** USP2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0, 8/0

metric 5 – metric 0.4

Without needle---150cms--180cms

With needle ---Thread length from 20cmto 180cm,needle length from 12mmto 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle,

**Package:**

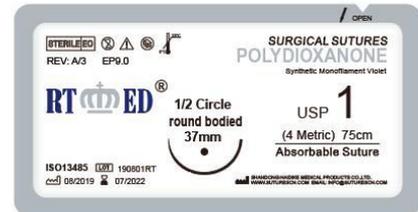
Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

- 1, the effective wound support time 7-10 days, faster absorption.
- 2, hydrolysis and absorption, no tissue reaction, 56-70 days of complete absorption.
- 3, the scope of application: subcutaneous intradermal suture, gynecology, dentistry, pediatrics, ophthalmology

## Absorbable PDO Suture



**Structure:** braided

**Chemical composition:** Polycyclohexanone

**Color:** purple

**Sterilization method:** EO Gas

**Validity:** 3 years

**Size:** USP2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0, 8/0

metric 5 – metric 0.4

Without needle---150cms--180cms

With needle ---Thread length from 20cmto 180cm,needle length from 12mmto 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle,

### Package:

Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

### Features:

1, the effective wound support time 4-5 weeks, faster absorption.

2, hydrolysis and absorption, no tissue reaction.

3, the scope of application: soft tissue suture, especially the need to support organizations for more than 4 weeks of pediatric or cardiovascular surgery

## Absorbable CATGUT Suture

Chromic Catgut:



Plain Catgut:



**Material:** Sheep or bovine intestinal serosa

**Color:** Cream/Brown

**Sterilization method:** Gamma

**Validity:** 5 years

**Size:** USP4, 3, 2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0

Without needle length---152cm, 2\*76cms

With needle ---Thread length from 20cm to 180cm, needle length from 12mm to 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle)

**Package:**

Each piece is packed in small package, containing isopropyl alcohol, then in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

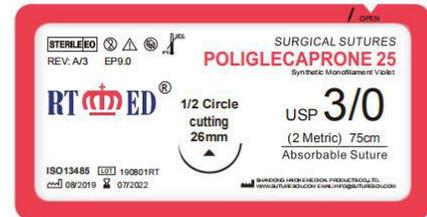
Its main material is from the animal tissue in the collection of collagen protein, because of its molecular structure and human tissue molecular structure is basically the same, and human tissue has good biocompatibility and cell adhesion, can quickly promote the organization of new Cell growth.

For the domestic and international medical community recognized the best surgical suture material.

Applicable departments: obstetrics and gynecology, urology, plastic surgery and other beauty.

Absorption period: 60-90days

## Absorbable PGCL Suture



**Structure:** Monofilament

**Chemical composition:** Poly (lactide-co-glycolide) (PGA-PCL)

**Color:** purple

**Sterilization method:** EO gas

**Validity:** 3 years

**Size:** USP2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0, 8/0

metric 5 – metric 0.4

Without needle---150cms--180cms

With needle ---Thread length from 20cmto 180cm,needle length from 12mmto 50mm.

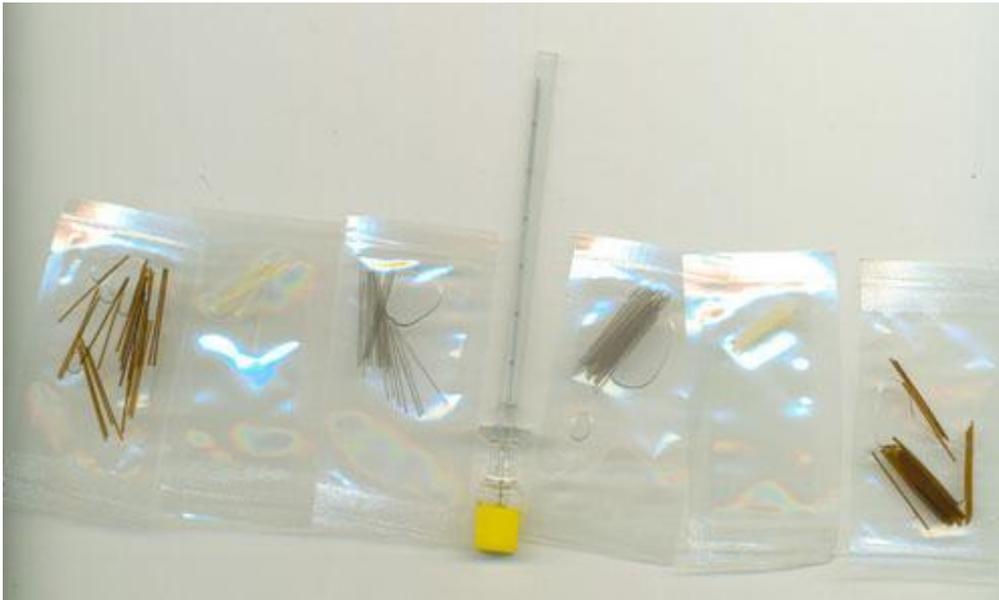
The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle,

### Features:

- 1, hydrolysis and absorption, no tissue reaction.
- 2, effective wound support time, absorption speed. 60% of the tensile strength was retained to 7 days, 30% of the 14 days, and nearly 15% of the tensile strength was retained to 21 days.

3, the scope of application: subcutaneous intradermal suture, gynecology, dentistry, pediatrics, ophthalmology

## Catgut embedding



Acupoint catgut embedding therapy is an extension of acupuncture and moxibustion is the development of a special one-time medical equipment will be the body can absorb carrier catgut (about 15 days can be self-absorbed) implantation The corresponding points, long-term stimulation of acupuncture points, play a "spleen Qi, dredge the meridians, to reconcile the role of yin and yang qi and blood", thus adjusting the patient's autonomic and endocrine function, to illnesses and physical health care purposes method. Embedding a needle is equivalent to ten or dozens of times, the effect of lasting consolidation, time-saving convenience.

Acupoint catgut embedding method is improved acupuncture, is a long-term acupuncture, is currently widely used in the field of embedding weight loss freckle wrinkle beauty, also can treat more than 30 kinds of clinical stubborn disease

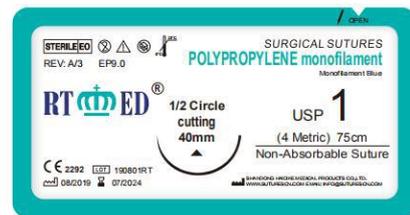
Material: catgut line, PGA line, PGLA line

Color: brown, purple, beige (white), green

Specifications: 2.0 cm \* 10, 1.8 cm \* 10, 1.5 cm \* 10, 1.2 cm \* 10 root

Model: 3 #, 2 #, 1 #, 1/0 #, 2/0 #, 3/0 #, 4/0 #, 5/0 #, 6/0 #

## Non-Absorbable Polypropylene Suture



**Material:** Monofilament

**Color:** Blue

**Sterilization method:** EO Gas

**Validity:** 5 years

**Size:** USP4, 3, 2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0

Without needle length---152cn, 2\*76cms

With needle ---Thread length from 35cm to 150cm, needle length from 6mm to 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle)

**Package:**

Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

- 1, the effective wound support time 7-10 days, faster absorption.
- 2, hydrolysis and absorption, no tissue reaction.
- 3, the scope of application: subcutaneous intradermal suture, gynecology, dentistry, pediatrics, ophthalmology

Specifications Model: Class 10-0, 9-0, 8-0, 7-0, 6-0, 5-0, 4-0, 3-0, 2-0, 0, 1, 2

1. Proline is a single-strand polypropylene non-absorbable suture, with excellent ductility, suitable for cardiovascular suture
2. Flexible, smooth, no organization drag, no cutting effect, easy manipulation
3. Tension strength lasting stability, strong tissue compatibility
- 4, vascular and cardiovascular surgery, skin sutures, orthopedics, ophthalmology, neurosurgery

Metric Size	USP Size	USP Specs.			SIPL Test Readings		
		Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*	Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*		
1	5/0	0.100 to 0.149	0.50	0.135 to 0.148	0.75 to 0.9		
1.5	4/0	0.150 to 0.199	0.75	0.180 to 0.199	1.4 to 1.8		
2	3/0	0.200 to 0.249	1.2	0.230 to 0.245	1.5 to 2.1		
3	2/0	0.300 to 0.339	1.8	0.325 to 0.338	3.0 to 4.1		
3.5	0	0.350 to 0.399	2.7	0.370 to 0.390	4.7 to 5.9		
4	1	0.400 to 0.499	3.4	0.475 to 0.490	5.3 to 6.7		
5	2	0.500 to 0.599	4.4	0.570 to 0.590	8.4 to 9.8		

## Non-Absorbable Nylon Suture



**Material:** Monofilament

**Color:** Blue/Black

**Dye:** Logwood extract

**Sterilization method:** EO Gas

**Validity:** 5 years

**Size:** USP4, 3, 2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0, 8/0, 9/0, 10/0

Without needle length---152cm, 2\*76cms

With needle ---Thread length from 35cm to 150cm, needle length from 6mm to 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle)

**Package:**

Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

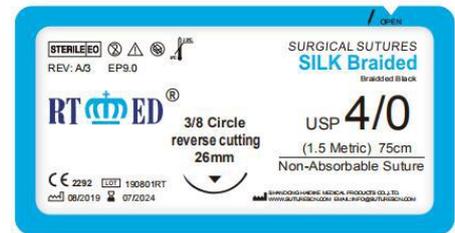
1. Single nylon, material inert stability, small tissue reaction
2. Line body smooth and smooth, easy to pass through the organization

Soft and comfortable, easy to operate, tie

3. Equipped with special plastic surgery suture needle and microsurgical suture needle
4. For facial cosmetic stitching, to avoid postoperative suture foreign body sensation
5. With eye-specific needles, eye surgery to meet the requirements of the suture
6. Skin and Plastic Surgery, Microvascular Surgery, Ophthalmology

Metric Size	USP Size	USP Specs.			SIPL Test Readings		
		Diameter (mm)	Standard Tensile Strength (Kgs)*	Knot Pull	Diameter (mm)	Standard Tensile Strength (Kgs)*	Knot Pull
1	5/0	0.100 to 0.149	0.50		0.135 to 0.148	0.75 to 0.9	
1.5	4/0	0.150 to 0.199	0.75		0.180 to 0.199	1.4 to 1.8	
2	3/0	0.200 to 0.249	1.2		0.230 to 0.245	1.5 to 2.1	
3	2/0	0.300 to 0.339	1.8		0.325 to 0.338	3.0 to 4.1	
3.5	0	0.350 to 0.399	2.7		0.370 to 0.390	4.7 to 5.9	
4	1	0.400 to 0.499	3.4		0.475 to 0.490	5.3 to 6.7	
5	2	0.500 to 0.599	4.4		0.570 to 0.590	8.4 to 9.8	

## Non-Absorbable Silk Suture



**Material:** Braided

**Chemical composition:** Natural silk thread

**Color:** Black

**Sterilization method:** EO Gas

**Validity:** 5 years

**Size:** USP4, 3, 2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0

Without needle length---152cm, 2\*76cms

With needle ---Thread length from 35cm to 150cm, needle length from 6mm to 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle)

**Package:**

Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

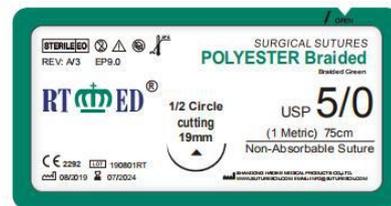
12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

1. The preparation of structures, with excellent operability.
2. General, skin sutures, oral surgery, neurosurgery, ligation

Metric Size	USP Size	USP Specs.		SIPL Test Readings	
		Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*	Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*
1	5/0	0.100 to 0.149	0.50	0.140 to 0.149	0.79 to 0.90
1.5	4/0	0.150 to 0.199	0.75	0.185 to 0.199	0.80 to 1.3
2	3/0	0.200 to 0.249	1.2	0.240 to 0.249	1.4 to 1.8
3	2/0	0.300 to 0.339	1.8	0.330 to 0.338	2.0 to 2.5
3.5	0	0.350 to 0.399	2.7	0.385 to 0.397	2.9 to 3.4
4	1	0.400 to 0.499	3.4	0.480 to 0.495	3.8 to 4.5
5	2	0.500 to 0.599	4.4	0.580 to 0.595	5.3 to 6.0
6	3 & 4	0.600 to 0.699	6.1	0.660 to 0.685	6.3 to 7.2

## Non-Absorbable Polyester Suture



**Material:** Braided

**Chemical composition:** Polyethylene terephthalate

**Coated:** silicon/Uncoated

**Color:** Green

**Sterilization method:** EO Gas

**Validity:** 5 years

**Size:** USP4, 3, 2, 1, 0, 2/0, 3/0, 4/0, 5/0, 6/0, 7/0

Without needle length---152cm, 2\*76cms

With needle ---Thread length from 35cmto 150cm,needle length from 6mmto 50mm.

The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (positive triangle)

**Package:**

Each piece is packed in an Aluminum foil bag and then in a Paper-poly Pouch

12pieces/ box, 50 boxes /carton. Carton size: 32 x 30 x 28cm<sup>3</sup>

**Features:**

- 1, the preparation of the structure, with excellent operability.
- 2, seam skin, cardiovascular, vascular, ophthalmology, plastic surgery

Metric	USP Size	USP Specs.		SIPL Test Readings			
		Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*	Diameter (mm)	Standard Knot Pull Tensile Strength (Kgs)*		
1	5/0	0.100 to 0.149	0.50	0.140 to 0.149	0.79 to 0.90		
1.5	4/0	0.150 to 0.199	0.75	0.185 to 0.199	0.80 to 1.3		
2	3/0	0.200 to 0.249	1.2	0.240 to 0.249	1.4 to 1.8		

3	2/0	0.300 to 0.339	1.8	0.330 to 0.338	2.0 to 2.5
3.5	0	0.350 to 0.399	2.7	0.385 to 0.397	2.9 to 3.4
4	1	0.400 to 0.499	3.4	0.480 to 0.495	3.8 to 4.5
5	2	0.500 to 0.599	4.4	0.580 to 0.595	5.3 to 6.0
6	3 & 4	0.600 to 0.699	6.1	0.660 to 0.685	6.3 to 7.2

## Orthopedic Casting Tape And Splint



### 【Expected usage】

The product is mainly used for the limb to provide binding force, in order to play a fixed r

ole.

### 【Structure and composition】

Polymeric fixed bandage consists of multiple layers of polyurethane impregnated glass fiber.

### 【Product main performance】

Curing time

Polymer fixed bandage curing time should not be less than 2min, should not exceed 15min, 24h after curing

There should be no soft phenomenon.

Tensile strength

2.1 polymer fixed bandage tensile strength of not less than 400N.

Polymer fixed bandage tensile strength should not be less than 400N.

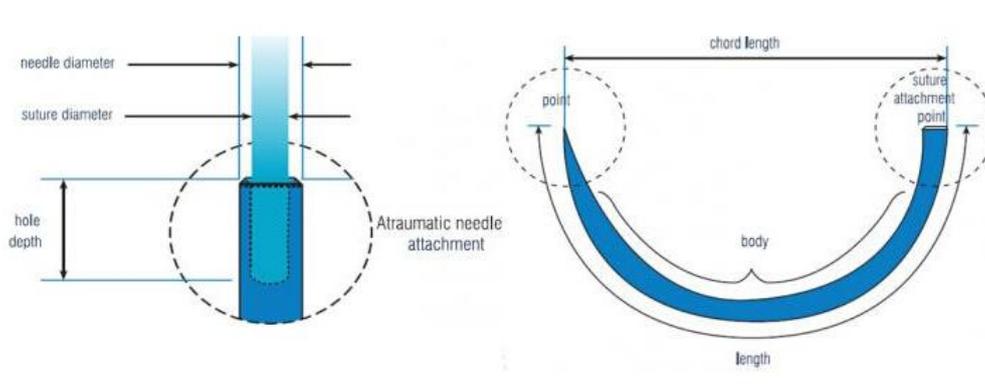
## Surgical Needle



The main raw material of the suture needle is YB / T 5219 standard medical suture steel wire, stainless steel wire material is divided into 420J2 and 304 two kinds of suture needle is divided into a round needle (whole body round needle), angle pin (triangle, anti-triangle) Needle hole machine.

The curvature of the needle:

1/2 circle, 3/8 circle, 1/4 circle, 3/4 circle, straight



针尖型说明

DESCRIPTION OF NEEDLE TYPE

针尖型式	POINT TYPE	SYMBOL
	TAPER POINT	●
	BLUNT TAPER POINT	○
	CUTTING EDGE	▲
	REVERSE CUTTING EDGE	▼
	TAPERCUT	⊕
	MICRO-POINT REVERSE CUTTING	▼
	MICRO-POINT SPATULA CURVED	▼

针尾型式	END TYPE
尾部包卷型	ROLLED-END
尾部钻孔型	DRILLED-END
普通孔	REGULAR EYE
单弹机孔	SPRING EYE
双弹机孔	SPRING DOUBLE EYES

