

Quality Highlighted By Its Smooth Performance

HSD focus on service first-class brands.



# CREATIVE

# HSD

Z I P P E R

**SPECIAL PRODUCTS COLLECTION**

Huashengda Zipper Technology Co., Ltd.

# HSD

INTELLIGENT MANUFACTURING

## Cambodia Factory



## China Factory & Headquarters



We have a specialized research and development team devoted to promoting the design features and performances of HSD zippers. We continue to improve the product's creative design (application for Men, Women and Kids wear, Outdoor, Sport, Bags... ) to promote added value for our customers.



Metal



Coil



Plastic



Puller



Slider



## Application & Product Design



We have developed an extensive and diverse line of zippers and sliders designs and we welcome you to consult with your local HSD sales and marketing office.

HSD currently targets Men, Women and Kids' wear, Sports and Casual wear and Bags...

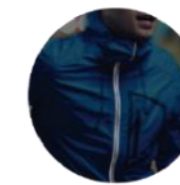
Comprehensively orientated products developed for trend and style , function, design, and environmentally friendly orientated products.



Water Resistant



Luminous



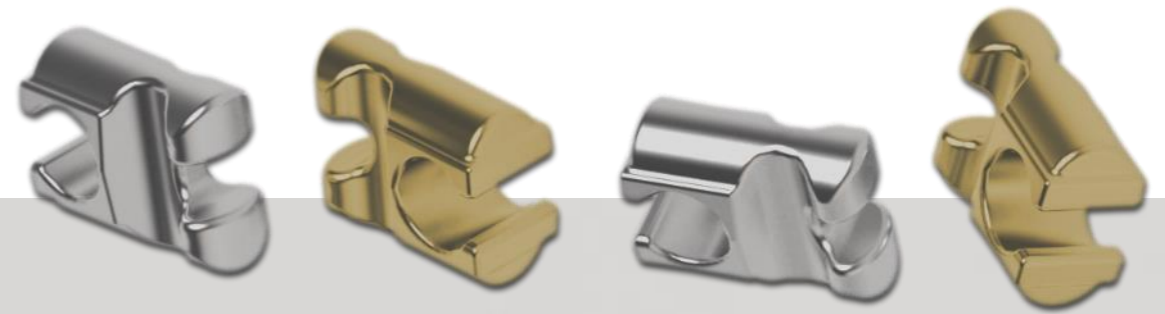
Reflective



Recycle

# CONTENTS

/ PRODUCTS



RAPID RELEASE ZIPPER

$\alpha$ -carve<sup>®</sup> series

APOLLO SERIES/UV SENSITIVE

TEMPERATURE CHANGING SERIES / TEETH

TEMPERATURE CHANGING SERIES / STITCHING

SUPER-S TEETH

PHANTOM TEETH

ROD TEETH

SHIELD TEETH



# HSD | RAPID RELEASE ZIPPER

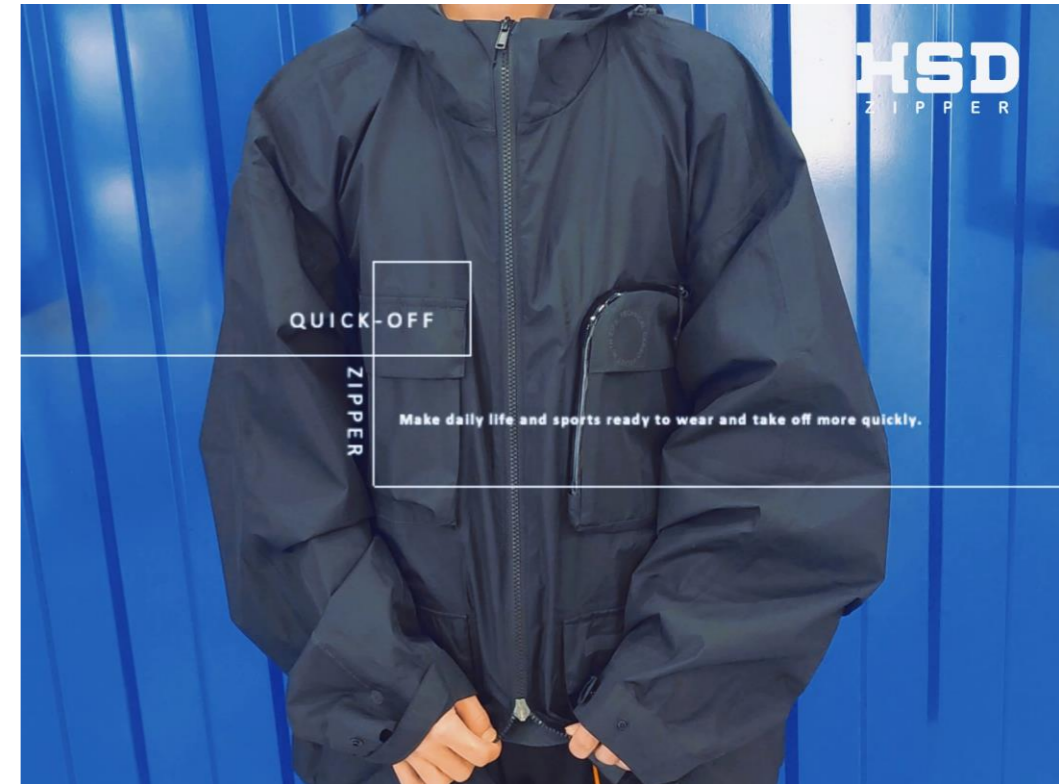
*Trend/Function/Sports* // // // //

In daily life, in some specific scenes or occasions, we need items or ways that can make us more convenient and fast. The concept of fast Quick-off zipper was born, which makes our daily life and sports preparation more convenient and fast.



QUICK-OFF

Demo Video ▼

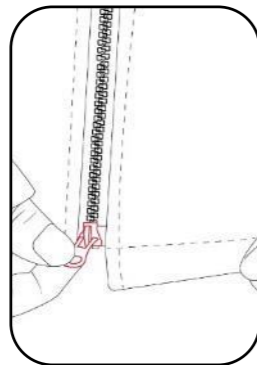


D5 Quick-off/Two Tay Open Zipper

ZIPPER

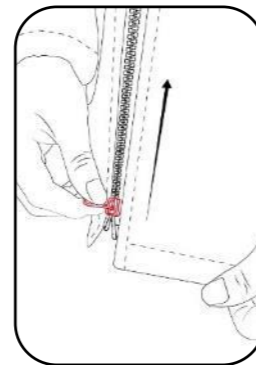
Quick-off Zipper is used the way of one side zip to top, let the garment with zipper not only take it off to the downward for opening, but also can zip up to top, getting more way to have the quick reacts as take it off.

Operation Process |



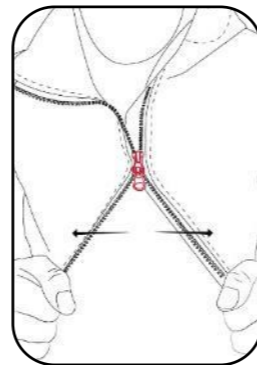
Hold The Bottom Puller

1



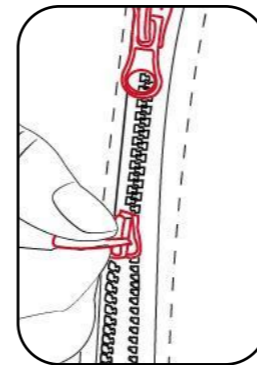
It Can Be Pulled Up Directly

2



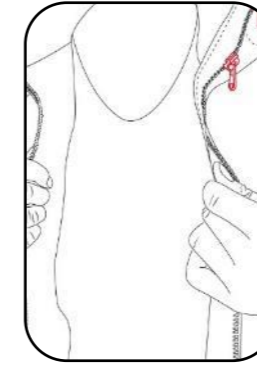
You Don't Have To Slider It All The Way To The Top To Slider It Out

3



This Zipper Sliders The Upper Slider Head To The Top To Slider Off More Quickly

4



Apace Dressing And Undressing Complete



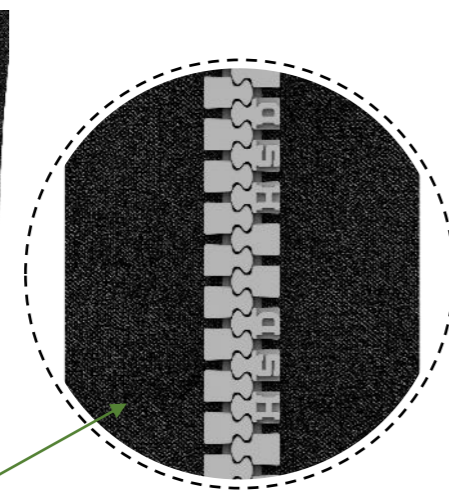
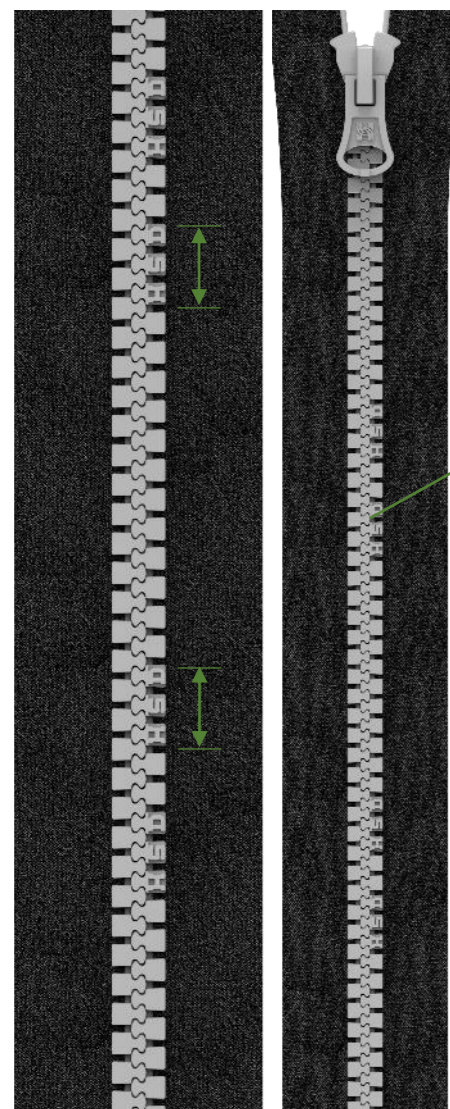


Through the HSD patented structure design, the α-carve® series products can design the brand LOGO, symbols and slogans on the plastic zipper products to highlight the brand personality and recognition. In the product rough development stage, we suggest that you can discuss with the HSD Design Center for sketch, after that, requirements are confirmed by 3D modeling and 3D printing technology before set mockup.

The α-carve® series products are customized products, which are presented in the form of 3D stereoscopic images on plastic steel chain products through customer-specific symbols, texts and brand spirit. Combined with HSD zipper positioning technology, the future will be available of determine the color and position for the segment, and pass the customer test standards in terms of physical performance requirements.

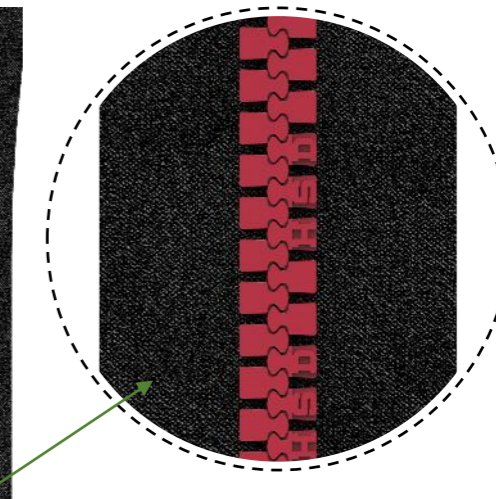
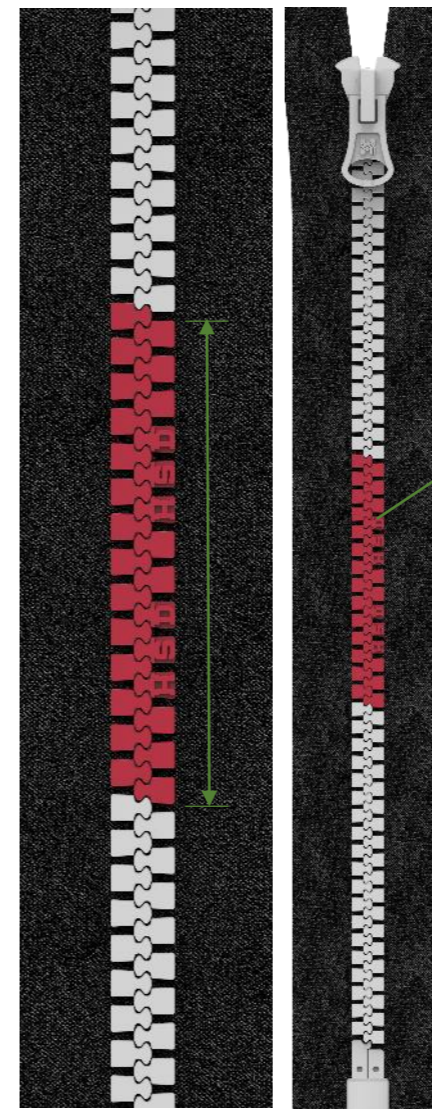
The α-carve® series technology will be a patented technology. Cooperative customers must have trademark ownership of corresponding symbols, which words and slogans to ensure that there is no infringement of product sales.

▶ Demo Video



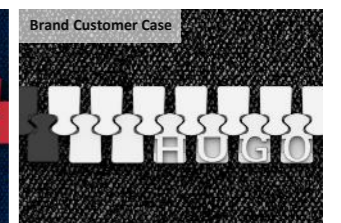
### OPTION A | Single Color Teeth, Random Cut

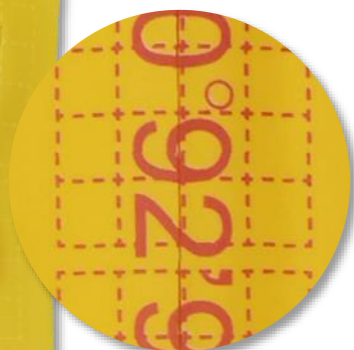
- Logo may change the position by random cutting.
- Logo may show multiple times determined by the length of zipper.
- Logo spell may be cut randomly on the top stop and bottom end.
- To ensure the visual effect of logo on teeth, a-carve should be applied in #8 or #10 plastic teeth.
- Due to the highly custom-making for each product, a-carve product takes 5~8 months to develop.



### OPTION B | Positioned Cut

- To ensure the visual effect of logo on teeth, a-carve should be applied in #8 or #10 plastic teeth.
- Logo length around 5.7cm.
- Logo length around 5.7cm.
- Due to the highly custom-making for each product, a-carve product takes 5~8 months to develop..





After Sensed



Yellow to Red MC-10

▶ Demo Video



### Description of UV Sensitive Ink |

It takes 3 ~ 10s to change color outdoors according to the intensity of sunlight (obvious color changing), and it takes about 15s to change color indoors. The ink expire life: about 1 year.

1、 Time record- Absorption of UV light :

At present, we have observed that the average absorption time of UV light perception is as follows:

- 1). Sunny day - 5 seconds
- 2). Normal sunny day - 10 seconds
- 3). Cloudy day - 20 seconds 4). Rainy days - within 5 minutes

2、 How long to return to the original color:

To indoor (completely without light) - about 10 seconds to 15 seconds.

Remarks |

1. The ink expire life is about 1 year.
2. This product adopts special technology to enhance the scratch resistance of sensitive screen printing.

0074504

N5 WR Color Film with UV Sensitive Screen Printing/Left Insert Open End Reversed Zipper  
5CFBOL P31 TWA|BF-SP|MC C006 DAH1D1706 HP P-TOP N OP-H M|ND CSR



### Photosensitive Ink Selective Color List



Cold Gray to Magenta  
MC-01



Blue to Purple  
MC-05



Pink to Purple  
MC-09



Orange to Deep Purple  
MC-03



Pink to Violet  
MC-07



Sky Blue to Green  
MC-11



Lemon Yellow Turns Green  
MC-02



Emerald Green to Gray  
MC-06



Yellow to Red  
MC-10



Pink to Purple  
MC-04

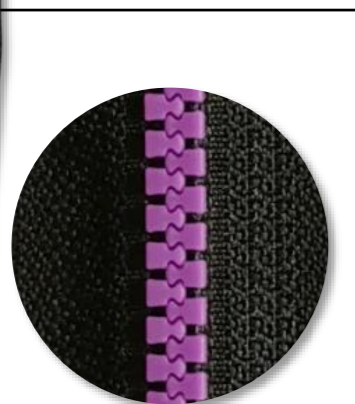
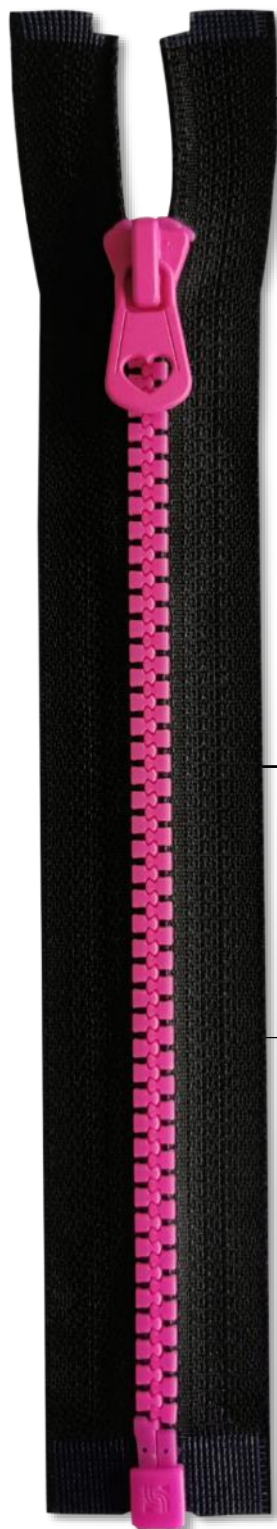


Light Purple to Orange  
MC-08

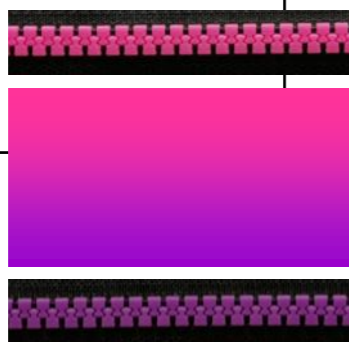


Bright Green to Brown  
MC-12

May have a slight chromatism problem in this color list, please take the actual product as the standard.



Outside 15°C Below Effect



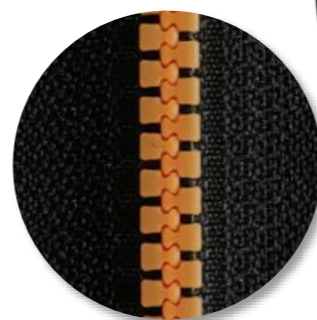
Indoors 15°C Above

Outside 15°C Below

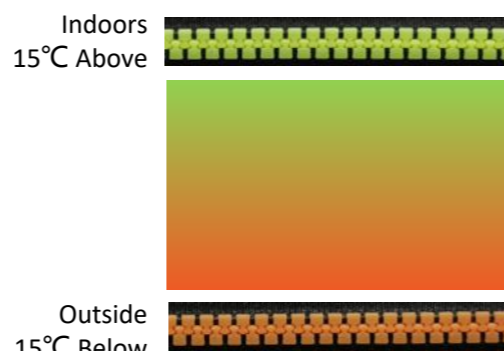
**0070315**

D5 Temperature-sensing Teeth  
Right Insert Open End Zipper

SCFBOL P31 TWA|BF-SP|MC C006 DAH1D1706  
HP P-TOP N OP-H M|ND CSR



Outside 15°C Below Effect



Indoors 15°C Above

Outside 15°C Below

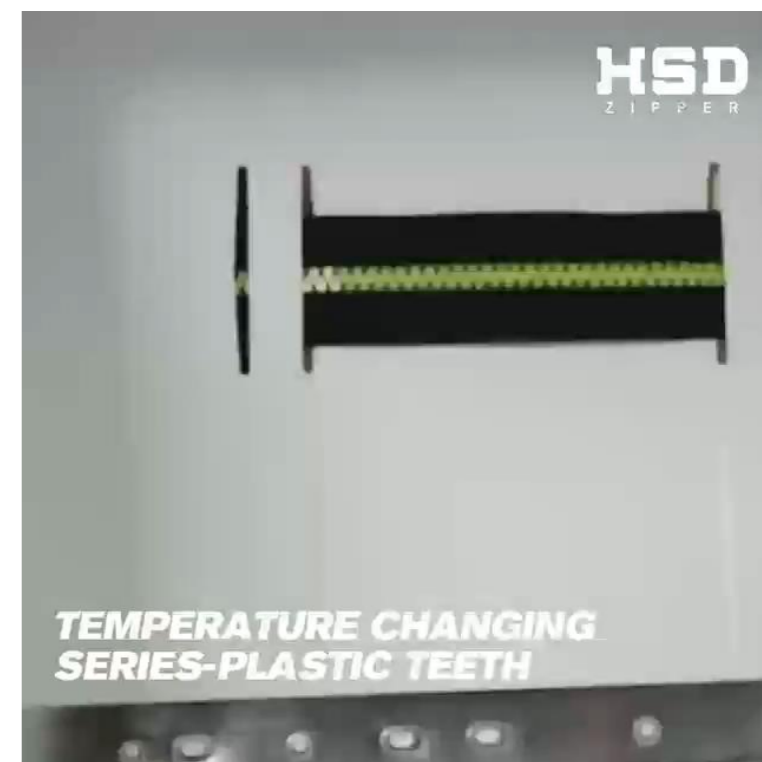
**0070319**

D5 Temperature-sensing Teeth  
Right Insert Open End Zipper

SVSOR COMBI 31.5 PT C077  
DAH1L1515 HP|HRP OP-H M|ND



▶ Demo Video



### Thermochromism Color Card |



Purple → Red



Red → Yellow



Big Red → Orange



Dark Green → Light Green



Dark Red → Purple



Black → Blue



Green → Yellow



Purple → Blue



Blue → Purple



Sky Blue → Emerald Green



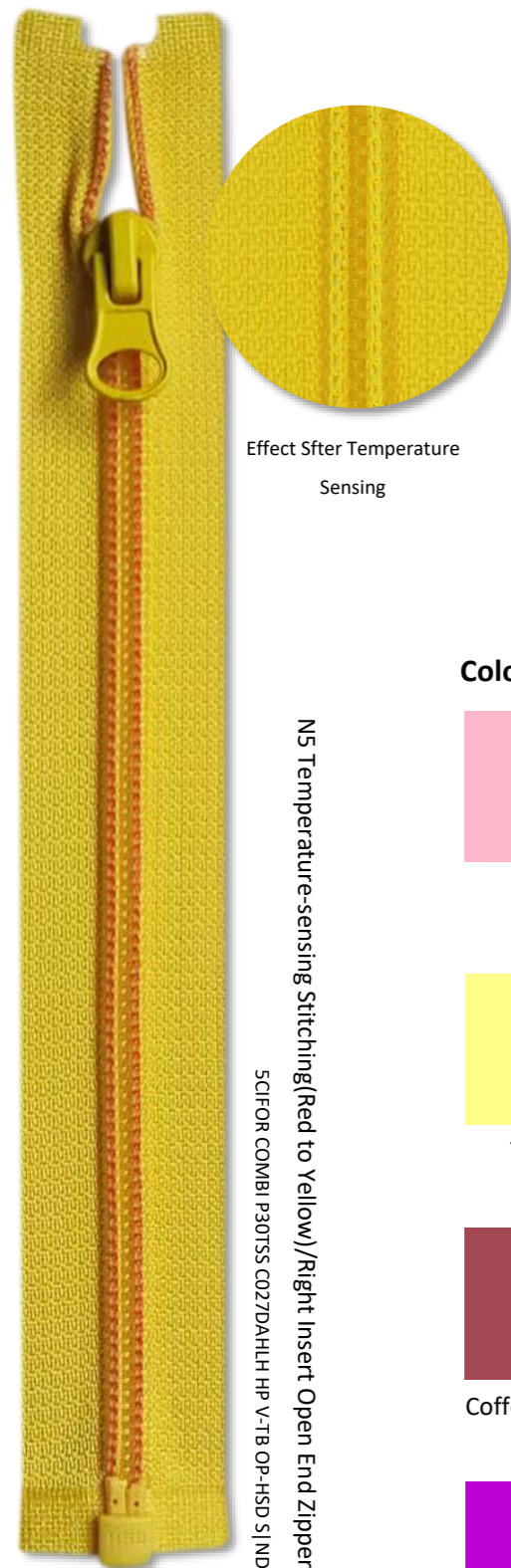
Black → Red



Black → Purple

May have a slight chromatism problem in this color list,  
please take the actual product as the standard.





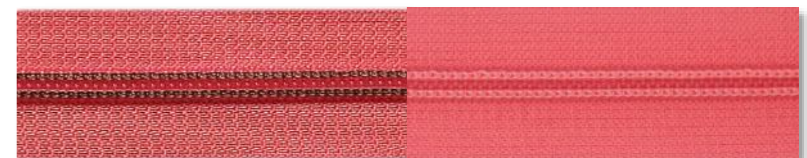
Effect Sfter Temperature Sensing

▶ Demo Video



Temperature sensitive discoloration at 31 °C.

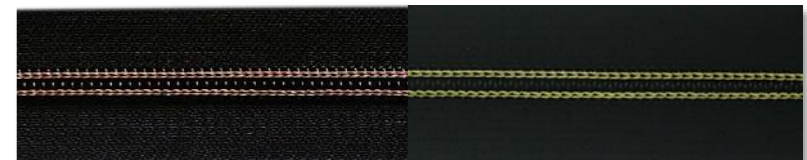
Temperature Sensing Before      Effect Sfter Temperature Sensing



Grey to Light Pink



Grey to Light Pink



Dark Red to Green

### Color-changing card for temperature-sensing stitching

Red → White GB01	Blue → White GB02	Yellow → White GB03	Purple → White GB04	Orange → White GB05
Yellow → Red GB06	Blue → Purple GB07	Purple → White GB08	Green → Dark Red GB09	Grey → Light Pink WB10
Coffee Color → White WB11	Red → White WB12	Peach Red → White WB13	Purple → Red WB14	Sky Blue → White WB15
Purple → Blue WB16	Blue → Pink WB17			

- This color card is for reference, and the color shall be subject to the real object.
- The color cannot be customized. Please make it according to the color change color group specified in the color card. Thank you.

### Important notes for thermochromic materials

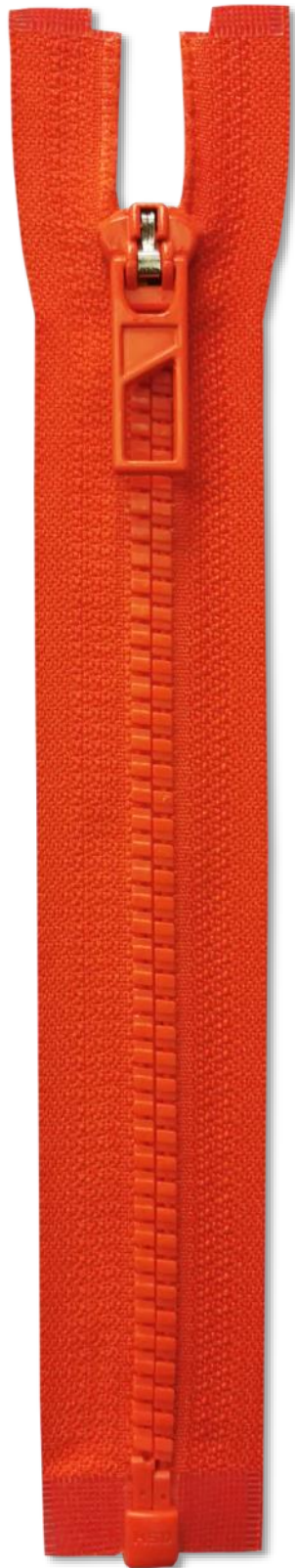
- They shall be stored in a dry environment and kept away from light.
- Owing to the stability of color-changing pigments in chromatic state being higher than that in achromatic state, the varieties with lower color-changing temperature should be stored in a cool environment. Long-term storage at high temperature will degrade their color-changing performance.
- Under the above conditions, the properties of the majority of color-changing pigments will not deteriorate significantly after being stored for 2 years.
- The processing temperature should be controlled below 150°C, and the heating time of materials should be minimized (high temperature or heating over a long time will damage the color-changing performance of the pigment).
- Long-time exposure to the sun will decay the color-changing performance.
- It will be restored to the original color 3-5 minutes after reaching below 31 degrees, the specific time depends on the environmental conditions.
- The client is requested to do different kinds of tests with the sample before placing orders to confirm the suitability of mass shipment.

N5 Temperature-sensing Stitching(Red to Yellow)/Right Insert Open End Zipper  
SCIFOR COMBI P30TSS CO2ZDAHLH HP V-TB OP-HSD S/IND

0077371

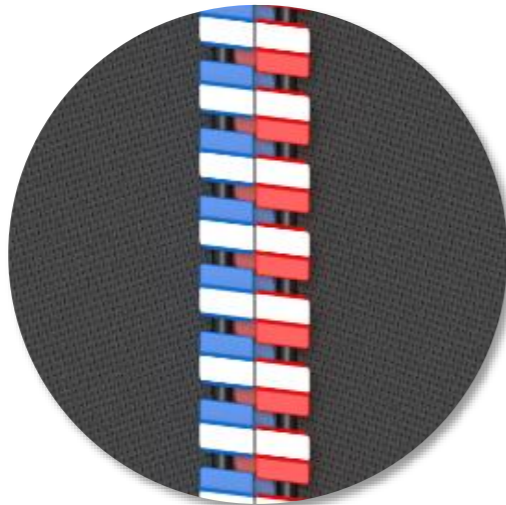
# HSD | SUPER-S TEETH

Demo Video ▼



0069557

D5 Super-S Teeth/Right Insert Open End Zipper  
SVSOR P31.5 AT DSHSD1D1531 HP | CSS OP-HSD M | ND



Teeth Greased



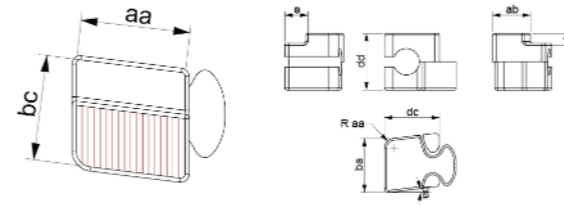
Spray-Free Metallike Color



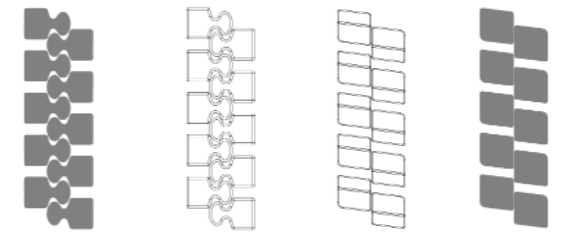
Teeth Plating

## INTRODUCTION

It is a Twill Design on the teeth surface, and it's also developed independently by HSD Zipper with patent.



Complex ← → Simple

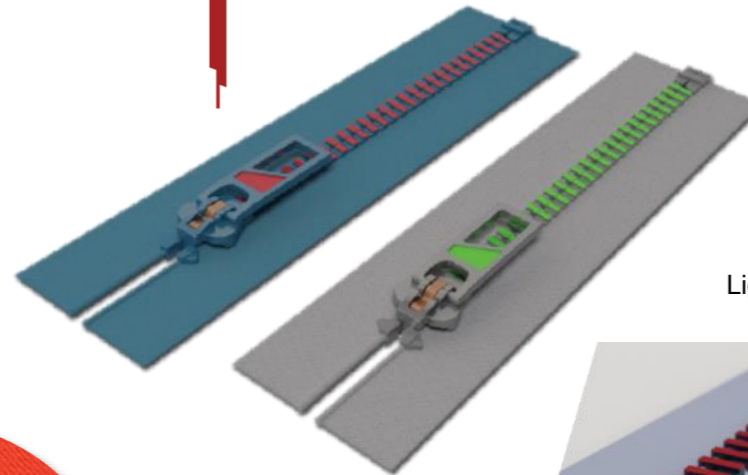


**SUPER S TEETH**

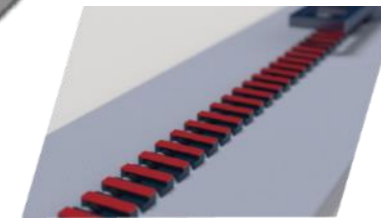
2021 Patent Innovation Series : The patented technical artwork has been authorized by China for utility model, and the patent is under evaluation.



Multiple Contrast Colors Combination  
Engineering Slope Design  
Easily Identifiable Character

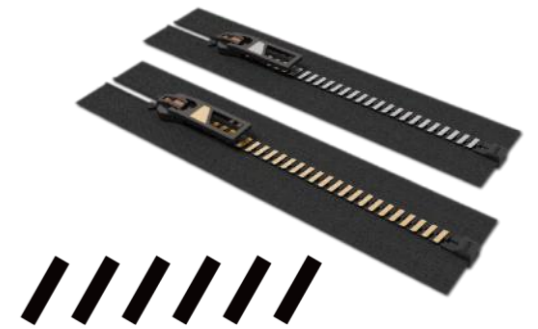


Lightning Finishing & Metallic Visual



Marvelous Color & Contrast Combination

Electroplating Texture  
Metallic Visual Effect  
Magnificent Appearance



## SUPER-S TEETH

It Is A Twill Design On The Teeth Surface.

Metallic Visual Effect

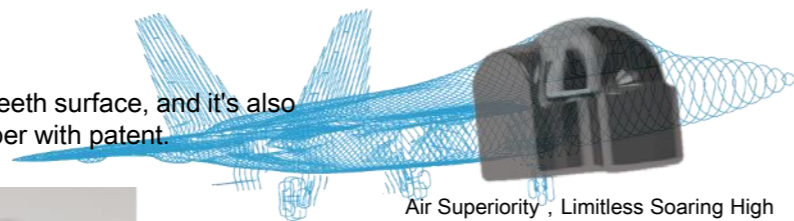
HSD Patent



# HSD | PHANTOM TEETH

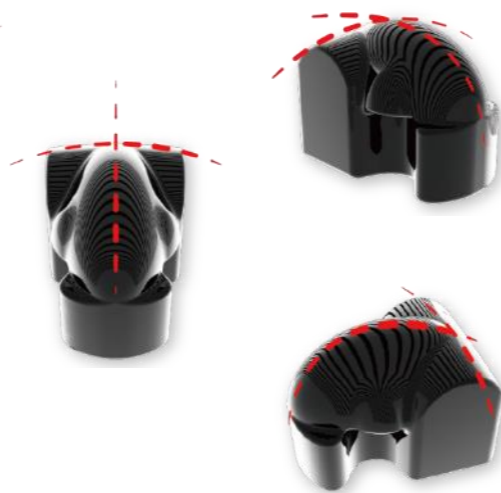
## INTRODUCTION

It is a Double Curved Surface on the teeth surface, and it's also developed independently by HSD zipper with patent.

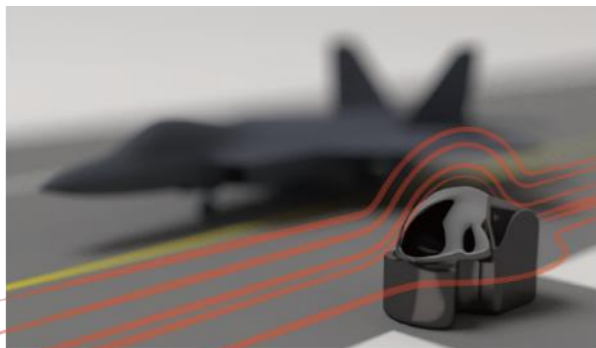


Air Superiority , Limitless Soaring High

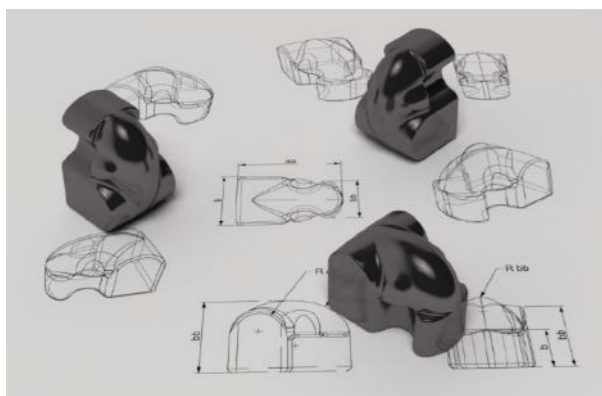
Double-arc surface with high and low-level, slick appearance, prevent scratch of the hands and fabrics.



Double Curved Surface, reduced the gap area of existing zipper teeth. Improved the frictional resistance of the inner cavity of the slider to feel the smoothness.



Smooth and reshaping zipper teeth.

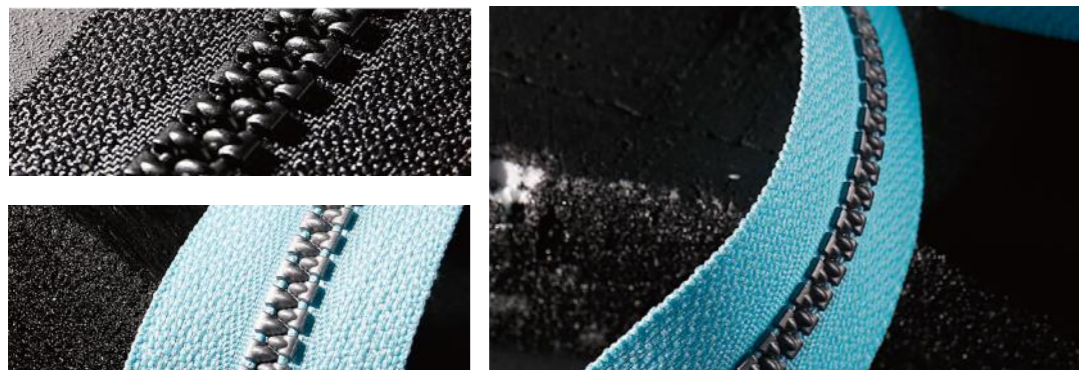


2021 Patent Innovation Series  
The patented technical artwork has been authorized by China for utility model  
China Invention Patent : CN201921374505.9

### PRODUCTION TYPE

Size	Open End	Close End	Two Way Close End	Two Way Open End
#3				
#5	✓	✓		✓
#8	✓	✓		✓

Keep Updating...



## Demo Video ▼



0033913

D5 Teeth & Tape Contrast Color Phantom Teeth/Right Insert Open End Zipper

5VSOR P31.5 AT DSHSD1D1531 HP|CSS OP-HSD M|ND



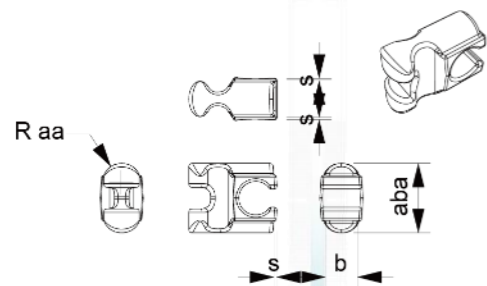
# HSD | ROD TEETH

## INTRODUCTION

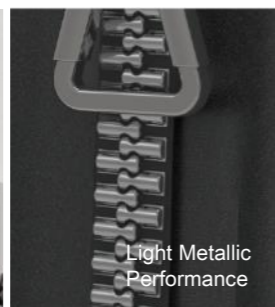
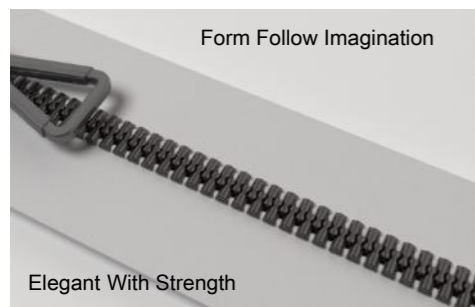
Rod Shape The rod shape of the "Rod Teeth" meet the trend of light metallic looking, and keep the strength testing standard at the same time.

Low-Key Luxury

Less is More



# ROD TEETH

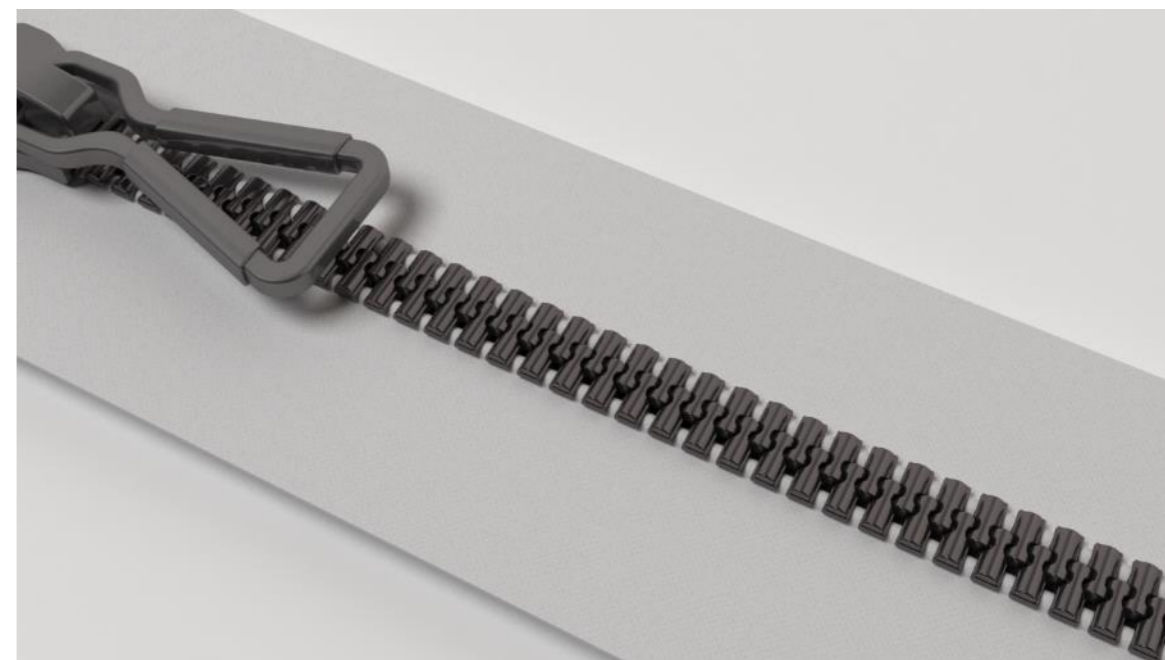


0078859

SVSOR COMBI O-CPOM P31.5 B C049 DAHSD1D1111 HP OP-H S|ND

D5 Rod Teeth ( Ivory Silver ) Open End Zipper

Demo Video ▼



## PRODUCTION TYPE

Keep updating...

Size	Open End Right Insert	Open End Left Insert	Close End	Two Way Close End	Two Way Open End
#3					
#5	✓	✓	✓		✓
#8	✓	✓	✓		



# HSD | SHIELD TEETH

## INTRODUCTION

The patented technical artwork has been authorized by China utility patent, and the invention patent is under evaluation.

## PRODUCTION TYPE

Keep updating...

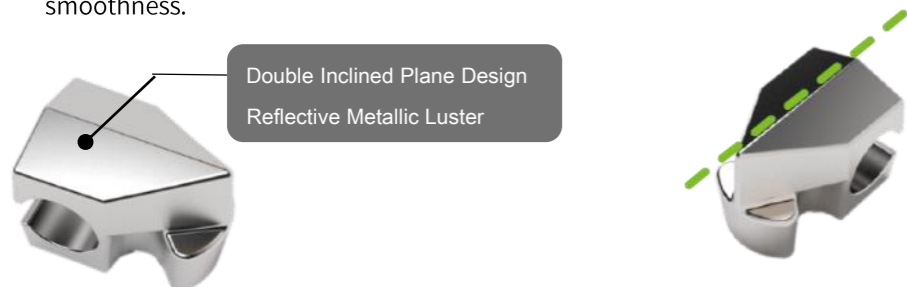
Size	Open End	Close End	Two Way Close End	Two Way Open End
#				
#5	✓	✓		✓
#8	✓	✓		

## COSTUME STYLE I

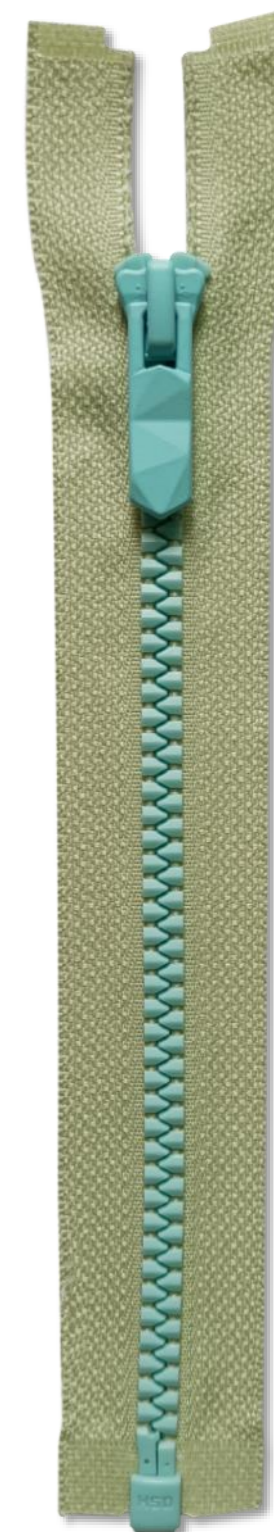
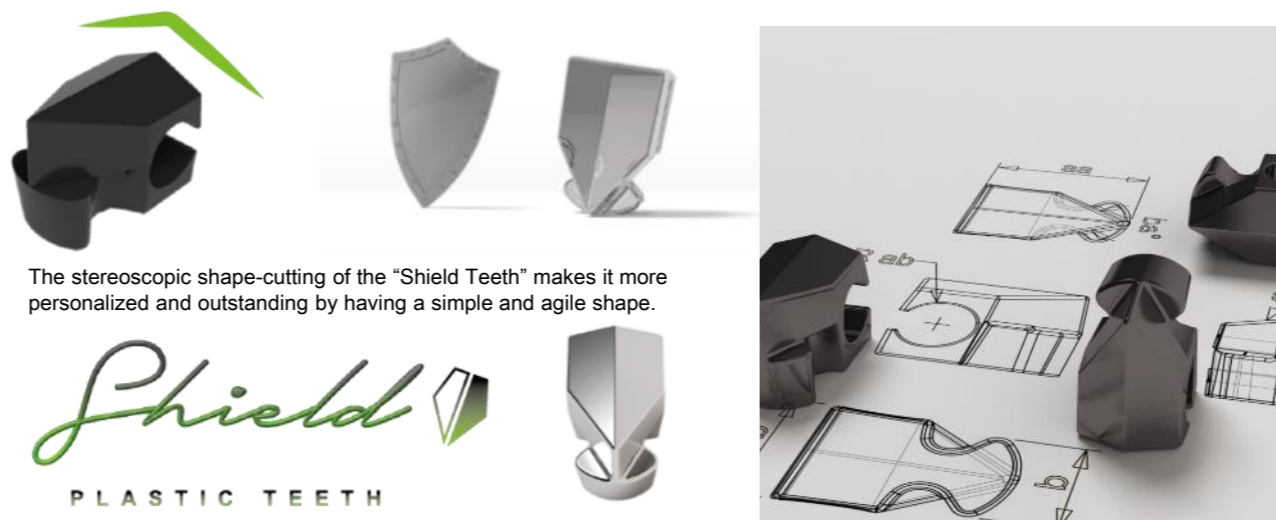
Simplicity & Ruggedness  
Classic European Retro  
Sense of Geometric Architecture



With the stereoscopic shape-cutting, the "Shield Teeth" reduced the frictional resistance from the inner cavity of the slider to improve the smoothness.



## Demo Video ▼



0033122

D5 Shield Teeth Open End Zipper  
SVSOR P31.5 AT DSHSD1D1531 HP | CSS OP-HSD MI | ND

Quality Highlighted By Its Smooth Performance



# MAKE IT HAPPEN

# THANK YOU

Quality Highlighted By Its Smooth Performance



**VISION**

To become a world-class zipper enterprise

**MISSION**

Make our dreams come true by enriching customers' value.

**VALUE**

people-centric, led by integrity, succeed with honesty and win-win results.

[www.hsdzipper.com](http://www.hsdzipper.com)

Looking Forward To Working With You



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