

FOR THE ENVIRONMENT

 **RITTER CARES**

SUSTAINABLE WRITING



POST-CONSUMER  
RECYCLED PLASTIC

**ECO**  **LINE**  
BIO GRADE MATERIAL





ECO  LINE



POST-CONSUMER  
RECYCLED PLASTIC

THE JOURNEY IS THE GOAL

## KNIGHT-PEN SUSTAINABILITY

In keeping with the motto „The journey is the goal“, we regularly invest in the modernization of our building and production facilities. Although we do without costly ISO certifications, we take every small step to conserve resources and manage them more sustainably. Here are some of the measures and investments we have made in recent years:

- Complete refurbishment of the toolmaking building
- New refrigeration system for the cooling circuit of the machines and tools
- Continuous extension of our Ritter Cares / ECO-LINE product line  
In addition to recycled cardboard, use of organic plastics and recycled post-consumer ABS plastics
- Successive conversion of the machinery to injection molding machines with electric or hybrid drives
- Replacement of two oil burners by a wood chip plant. This alone enables us to save 118 tons of CO<sub>2</sub> per year
- Use of LED lighting in outdoor and indoor areas
- Membership of the South-Hesse climate-efficient network
- Ongoing training of our employees in energy-conscious practices
- Conversion of UV dryers in the print shop to LED technology
- Enlargement of the green areas within the company premises

## THE JOURNEY IS THE GOAL - OUR REFILL SYSTEM ALSO MAKES A CONTRIBUTION!

All products of the Ritter Cares line come with replaceable refills. The Mix & Match modular system also permits the use of refills with even higher writing performance. Our Ultra large capacity refill, for example, has a writing capacity of approx. 6,000m and can be selected as an upgrade for any model.

When it comes to the quality of the refills, we make no compromises - we rely on high-tech refills from Swiss production. These correspond to strict Swiss standards, are document proof, and ISO 12757-2 certified. Balance is a fundamental aspect when aligning a refill system for the perfect writing experience. Ritter Pen's BALANCE FLOW refill system is the point of intersection between a soft writing feeling and an optimum writing length with consistent quality. The BALANCE FLOW system will be integrated into all Ritter Pen standard refills (Jogger, Marathon and Ultra with 1.0 mm ball) from 2019. The refill of choice for lovers of striking, yet soft writing. We are also optimizing the Ritter Pen Soft refills with 1.2 mm ball with this system. The refill for those who appreciate soft, rich writing.

Please note:

On the catalog pages you will find various optional extras for some models that are subject to a surcharge. These are marked with a \*. Please refer to the surcharges in the price list.

## RECYCLING STANDARDS BY RITTER-PEN:

### LEVEL 1:

Accumulated sprues (a by-product from mould injection) and remains are shredded and added back into the production of new parts. The proportion of this regenerated material is about 20-30%. This process is a standard procedure at Ritter-Pen and applies to all our plastic models.

### LEVEL 2:

The proportion of recycled granules can be increased by shredding sprues & scrap with overproduction and unused parts. This too is a standard procedure at Ritter-Pen.

### LEVEL 3:

Now we take the process a step further: our pens that carry the Recycled Crest are created with ABS plastic 100% obtained from plastic-rich waste streams. In one special procedure, product is separated and then processed into high quality granules.

We are now completely redefining recycling, the new recycling standard at Ritter Pen.





# POST-CONSUMER RECYCLED PLASTIC

## RECYCLING

Recycling paper and pure grade PET products, commonly used for bottles, polyester and fleece clothing, has been a longtime standard practice for recycling organizations. Up to now plasticrich waste such as, end of life cars, household and electrical appliances are usually salvaged for its metal only with their remains ending up at the dump or in an incinerator.

### What's Different Now?

With a totally new process, the plastic content of these junk mountain sare being separated and sorted resulting in new raw material. All the plastic parts from your old vacuum cleaners, kitchen appliances and machine tools are separated, shredded and with the most modern technology prepared for SECOND LIFE production. In our case, a SECOND LIFE recycled granulate or a POSTCONSUMER plastic will be used to create a whole new advertising pen. RITTER PEN will manufacture many colorful, printable, promotional pens made from this SECOND LIFE recycled material. These writing instruments are characterized by this logo: 



### The Truth:

Compared to conventional production of plastics from crude oil, up to 80% less energy is needed to produce the SECOND LIFE RECYCLATES.

Our SECOND LIFE RECYCLED pens are available in black and light grey. Customize with a splash of color, the ABS plastic pusher comes in your choice of 27 standard colors.



SECOND LIFE RECYCLED pens from RITTER-PEN - leaving another green footprint.



## FILMS ON THE TOPIC

### THE IDEA



### THE IMPLEMENTATION





# ECO LINE

RITTER-PEN uses natural, completely biodegradable cellulose –base / bio-plastic for the production of our ECO-LINE. Also in high gloss transparent finish! The most important part of this plastic is the cellulose. Cellulose is a natural polymer that forms the main component of a plant cell wall. Wood, for example, are rich in cellulose and serve as a starting material for the production of used material. In a special procurement and treatment process cellulose acetate, a thermoplastic material can be derived from cellulose. Care is taken that the origin of the raw materials making this bio-plastic predominant of **renewable resources**.

The pens in our ECO-LINE contain a large percentage of this natural bio-plastic. To ensure exceptional structural integrity a small amount of traditional ABS materials are used for the components that are exposed to high mechanical stress. Unlike corn starch or lactic acid products, cellulose acetate is scratch and heat resistant. It has similar performance characteristics as conventional plastics and is particularly suitable for mold injecting. Due to the nature of the material it is limited to a natural colour selection, however this organic compound possess a higher density than ABS plastic, which gives it a richer quality and a perfect surface for colorful and vibrant imprints.

Without leaving harmful residues bio-plastics can be decomposed by microorganisms leaving behind only water, carbon, and some

biomass. Permanent higher temperatures and adequate moisture are prerequisite for an optimal decomposition; similar conditions that prevail in industrial composting. The biodegradability of this material on an industrial scale is confirmed in accordance with the terms of DIN EN 13432:2000-12. Disposal of this bio-plastic is via the general household waste, contributing to the conservation of finite fossil fuels through thermal treatment. It releases the same amount of emissions generated by burning or composting of raw material (e.g. wood). There is no general regulation, which governs the recycling of plastics, therefore, we maintain a proper thermal treatment as the most sensible solution to dispose of bio-plastics.

Replacing oil as a raw material with a renewable raw material source allows the saving of fossil resources and a reduction of CO2 emissions. The development and processing of recyclable plastics, of course, is a step towards a more sustainable future. We must learn to give up finite resources - to love our environment.

Sustainable writing with RITTER-PEN.

Our quality label will lead you on the following pages:

ECO  LINE 70%    ECO  LINE 75%    ECO  LINE 80%    ECO  LINE 90%

Learn more about sustainable writing:  
[www.ritter-pen.de/ecoline](http://www.ritter-pen.de/ecoline)

# HIGHLIGHTS

Made in Germany



Design the model of your choice



80% (barrel and clip) renewable, bio-based material cellulose acetate material



Upper barrel made of ABS plastic - available in many colors



X20 Jogger refill - Swiss made, document proof refill with a writing capacity of 2,000 meters!



DIN-certified organic material



## TIPP:

Increased advertising use with longer writing performance: An upgrade to the large-capacity refill Ultra\* increases the writing performance to 6,000 meters – resulting in a longer advertising lifetime of the pen!



3100	3210	3505	3521	3609	3634	3806	3917	3903	4339	4306	4324	4119	4127	4031
4026	4408	0419		0101	0200	0601	1300	1302	1101	4076	1001	1400	1500	

500 pcs.  
29 x 24 x 23 cm  
6,5 kg



Pencil Option



## HIGHLIGHTS

Made in Germany



Design the model of your choice



Made of at least 75% renewable, bio-based material cellulose acetate (barrel and clip)



Upper barrel made of ABS plastic



Marathon - Swiss made, jumbo document proof refill with a writing capacity of 2,500 meters!



### TIPP:

An upgrade to the large-capacity refill Ultra\* increases the writing performance to 6,000 meters! This improves the service life of your advertising medium and prolongs the pen's advertising usage!



500 pcs.  
29 x 24 x 23 cm  
6,5 kg

3559 3648 1349 4066 4508

# HIGHLIGHTS

Made in Germany



Design the model of your choice



Made of at least 90% renewable, bio-based material cellulose acetate (barrel, clip and optional pusher)



Optional pushers ABS plastic – available in many colors



X20 Jogger refill - Swiss made, document proof refill with a writing capacity of 2,000 meters!

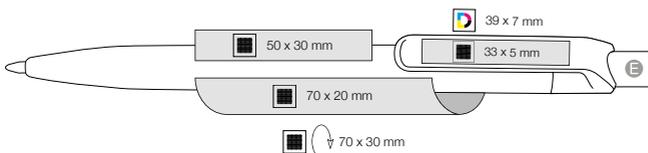


DIN-certified organic material



## TIPP:

Renewable raw materials avoid the use of oil-based plastics. This model uses about 90% less conventional plastics!



500 pcs.  
29 x 24 x 23 cm  
5.0 kg



- E 0003
- 3210
- 3508
- 3547
- 3609
- 3630
- 3634
- 3806
- 3903
- 4333
- 4303
- 4110
- 4127
- 4031
- 4070
- 4507

Pencil Option



## HIGHLIGHTS

Made in Germany



Design the model of your choice



Made of at least 90% renewable, bio-based material cellulose acetate (barrel and clip)



Pusher made of ABS plastic - available in many colors



X20 Jogger refill - Swiss made, jumbo document proof refill with a writing capacity of 2,000 meters

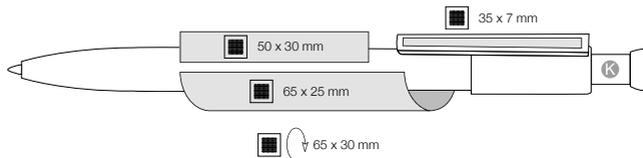


DIN-certified organic material



### TIPP:

The modular system allows for different refill types. An upgrade to our soft refills improves writing comfort.



500 pcs.  
29 x 24 x 23 cm  
6,5 kg

Pencil Option



# HIGHLIGHTS

Made in Germany



Design the model of your choice



Made of at least 70% renewable, bio-based material cellulose acetate (barrel and clip)



Upper barrel is made of ABS plastic - available in many colors



X20 Jogger document proof refill, Swiss made!



## TIPP:

Renewable raw materials avoid the use of oil-based plastics. This model uses about 70% less conventional plastics!

Jogger Soft



0003	3210	3505	3547	3608	3634	3630	3804	3903	4336	4303	4110	4127	4031	4076	4044	4507
0101	0200	0201	0501	0601	0600	0903	1300	1301	1302	1001	4076	1101	1400	1500		

500 pcs.  
29 x 24 x 23 cm  
6.5 kg



Pencil Option



## HIGHLIGHTS

Made in Germany



Design the model of your choice



Pusher and tip made of renewable, bio-based material cellulose acetate, with a recycled cardboard barrel wooden clip

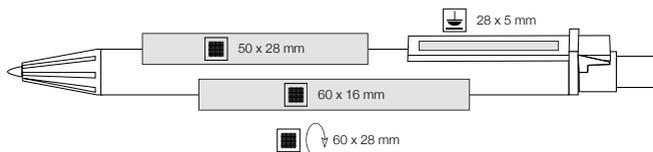


X20 Jogger refill - Swiss made, document proof refill with a writing capacity of 2,000 meters!



### TIPP:

The modular system allows for different refill types. An upgrade to our soft refills improves writing comfort.




 1,000 pcs.  
 40 x 20 x 30 cm  
 6,5 kg

# HIGHLIGHTS

Made in Germany



Design the model of your choice



Made of at least 80% renewable, bio-based material cellulose acetate (barrel and clip)



Mechanism made of ABS plastic - available in many colors



X20 Jogger refill - Swiss made, jumbo document proof refill with a writing capacity of 2,000 meters!

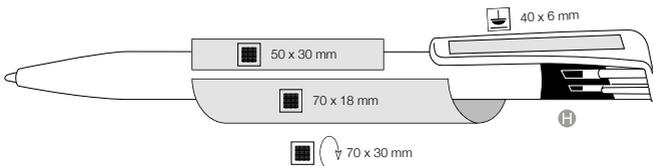


DIN-certified organic material



## TIPP:

All-round printing on the pen barrel: We print several logos in the same color in a single process! This saves costs and allows multiple design options.



H	3100	3210	3505	3521	3609	3634	3806	3917	4333	4383	4324	4116	4127	4031	4029
	4408	0419													

500 pcs.  
29 x 24 x 23 cm  
5,5 kg



Pencil Option



## HIGHLIGHTS

Made in Germany



Configure your favorite color



One of the first eco-pens: recycled from cardboard barrel with wooden clip



X20 Jogger refill - Swiss made, jumbo document proof refill with a writing capacity of 2,000 meters!



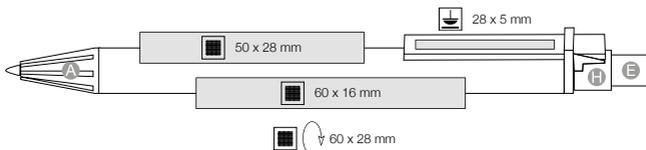
### TIPP:

Use our online pen builder for your configuration and let your ideas flow with our modular system!

Carton 72511



Jogger



1,000 pcs.  
40 x 20 x 30 cm  
6,5 kg

mix & match colors

A E H 0200 0401 0601 1300 1001 1500

### JOGGER refill

The most commonly purchased refill in the advertising industry. A million-seller. Perfect writing characteristics and a highly acceptable writing length.

#### Jogger

ca. 2.000 m\*  
Tip brass nickel-plated, 1,0 mm TC-ball  
ISO 12757-2 / document proof

#### Jogger Soft

ca. 1.400 m\*  
Spitze Messing vernickelt, 1,2 mm TC-ball  
ISO 12757-2 / dokumentenecht



### MARATHON refill

The big sister of the JOGGER refill. With a slightly thicker refill tube, it conveys a touch of exclusivity in addition to the 25% longer writing length.

#### Marathon

ca. 2.500 m\*  
Tip brass nickel-plated, 1,0 mm TC-ball  
ISO 12757-2 / document proof

#### Marathon Soft

ca. 1.800 m\*  
Tip brass nickel-plated, 1,2 mm TC-ball  
ISO 12757-2 / document proof



### ULTRA refill

This refill is a must for anyone who is interested in great value. A large-capacity refill that lives up to its name. Perfect writing characteristics and a writing length three times as long as a conventional X 20 refill quickly get writers' attention. A refill for image building.

#### Ultra

ca. 6.000 m\*  
Tip Stainless steel, 1,0 mm TC-ball  
ISO 12757-2 / document proof

#### Ultra Soft

ca. 4.000 m\*  
Tip Stainless steel, 1,2 mm TC-ball  
ISO 12757-2 / document proof



### ULTRA METALL refill

The undisputed superstar among the refills. High-tech processing at its finest. Ultimate writing length and shelf life. Its metallic weight conveys its high quality. A refill for people who don't want to compromise on quality.

#### Ultra Metall

ca. 8.500 m\*  
Tip Stainless steel, 1,0 mm TC-ball  
ISO 12757-2 / document proof

#### Ultra Metall Soft

ca. 5.000 m\*  
Tip Stainless steel 1,2 mm TC-ball  
ISO 12757-2 / document proof



### ULTRA SUPER SOFT refill

The Ultra refill is now also available in the Super Soft version with a 1.4 mm ball for an even softer, richer writing feel.

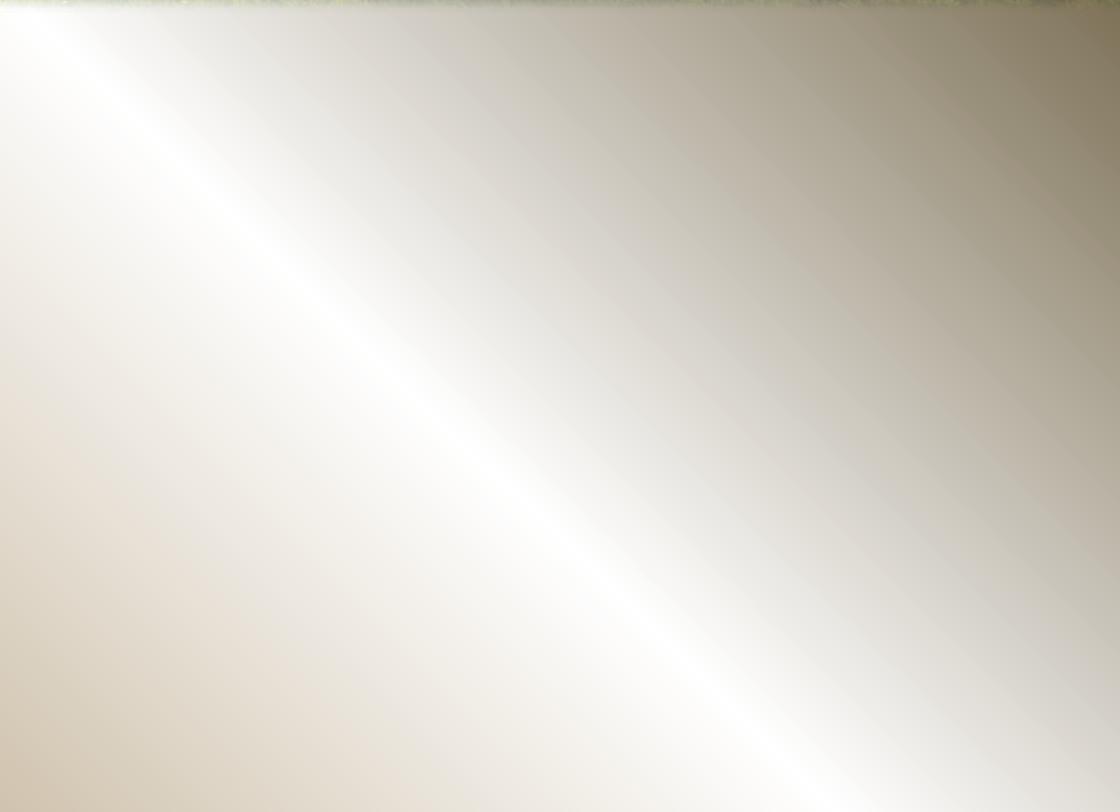
#### Ultra Super Soft

ca. 3.400 m\*  
Tip Stainless steel, 1,4 mm TC-ball  
ISO 12757-2 / document proof









[www.ritter-cares.de](http://www.ritter-cares.de)

