

# **ПРОФУМЪ**

## **TSPROF**

---

**TSPROF SHARPENING SYSTEMS**

**PROFESSIONAL KNIFE SHARPENING  
AVAILABLE TO EVERYONE**



# About the company

**I**n TSPROF, we are involved in production and sale of professional knife grinding equipment. We offer a wide range of equipment for manual professional sharpening of knives and other cutting tools.

TSPROF started operations in 2010. We are engaged in the serial production of hand-held equipment for high-precision sharpening of cutting tools. In addition to manufacturing, we develop, sell, advertise and promote the products we make. Since 2010, we have created a professional team, set up the production facilities with modern metalworking equipment, CNC lathes and milling machines, and arranged the process of mass production of sharpening tools and their sales in the Russian Federation and the CIS countries. We are currently promoting our products in the American and European markets.

Our products are presented at specialized Internet forums. They have been shown at leading Russian industrial exhibitions many times. We are liaising with dealers from America, Asia and Europe.

A growing interest in the new segment of the Russian market stimulates the development of this subject with our company. We are constantly expanding the production, releasing new products and updates, establishing new partnerships on the basis of mutually beneficial cooperation with leaders and experts in this field.

We use only the most modern, safe and durable materials to manufacture our product.



# Table of contents

## SHARPENING SYSTEMS

- K-01 **page 6**

- K-02 **page 8**

- Lifting unit  
**page 10**



## CLAMPS

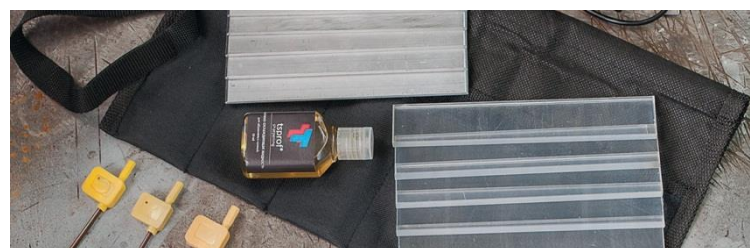
For our  
sharpening systems  
**page 12**



## ACCESSORIES

Will help  
to measure the sharpening angle  
correctly and accurately,  
as well as store and carry  
sharpening accessories.

**page 22**



## ABRASIVES

Sharpening stones,  
grinders, bars and finishers  
from leading manufacturers  
will help to achieve the ideal  
sharpening of your knives.

**page 28**



## CONTACTS

How and where you can order our  
machine tools, accessories, abrasives,  
as well as cooperation  
issues.

**page 36**



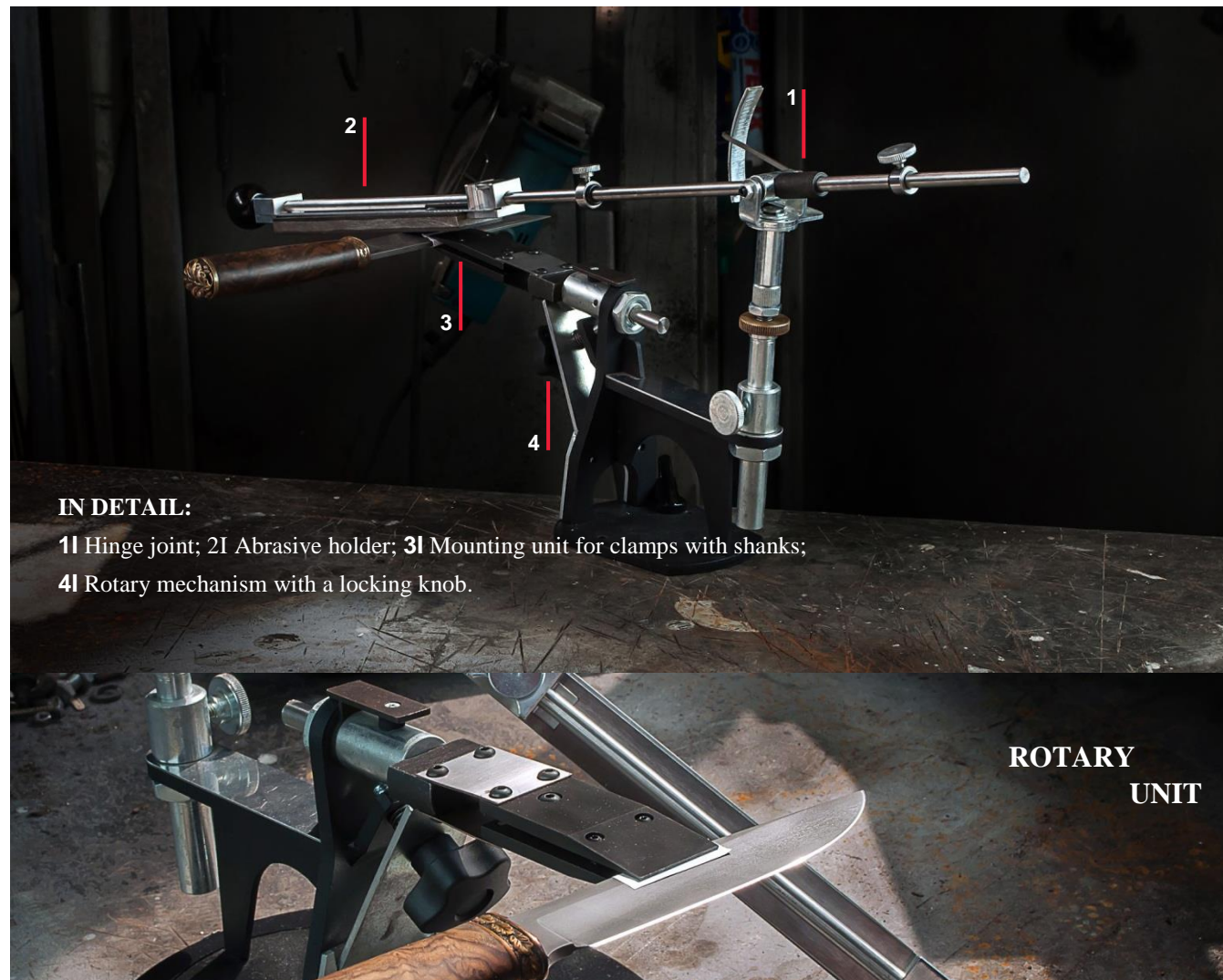


# K-01 sharpening system

With the first model K-01, we set ourselves the task that seemed impossible at first glance: to bring the product to the world market and achieve the quality that Russian gunsmiths are famous for.

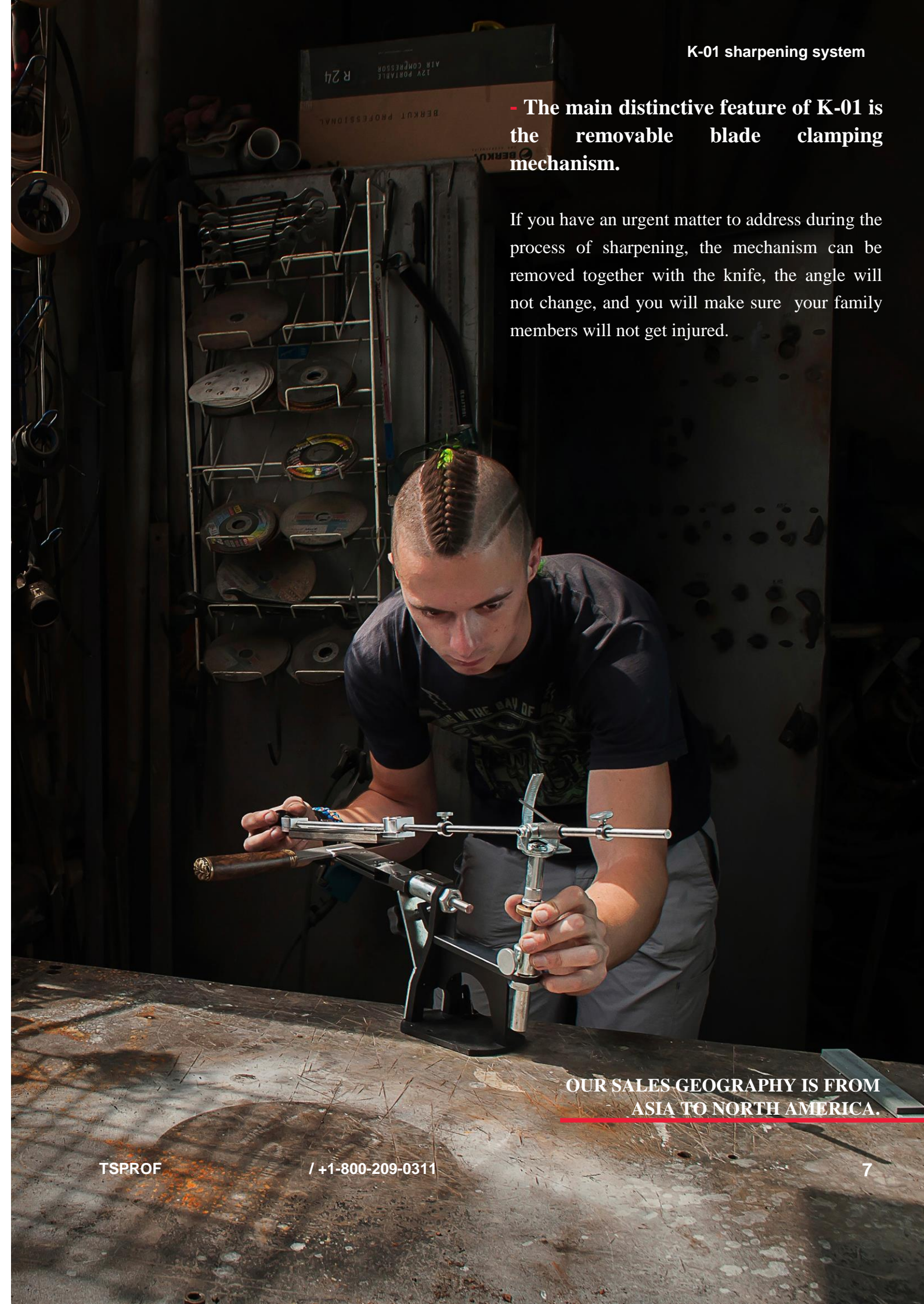
We went through every element of the sharpening system, we have taken into account all the disadvantages of imported analogues and have thought over the price policy so that K-01 is affordable to most customers.

The result was a universal model that requires minimum skills and effort to sharpen your knife, razor, ax, or any other cutting tool to the ideal condition.



- The main distinctive feature of K-01 is the removable blade clamping mechanism.

If you have an urgent matter to address during the process of sharpening, the mechanism can be removed together with the knife, the angle will not change, and you will make sure your family members will not get injured.

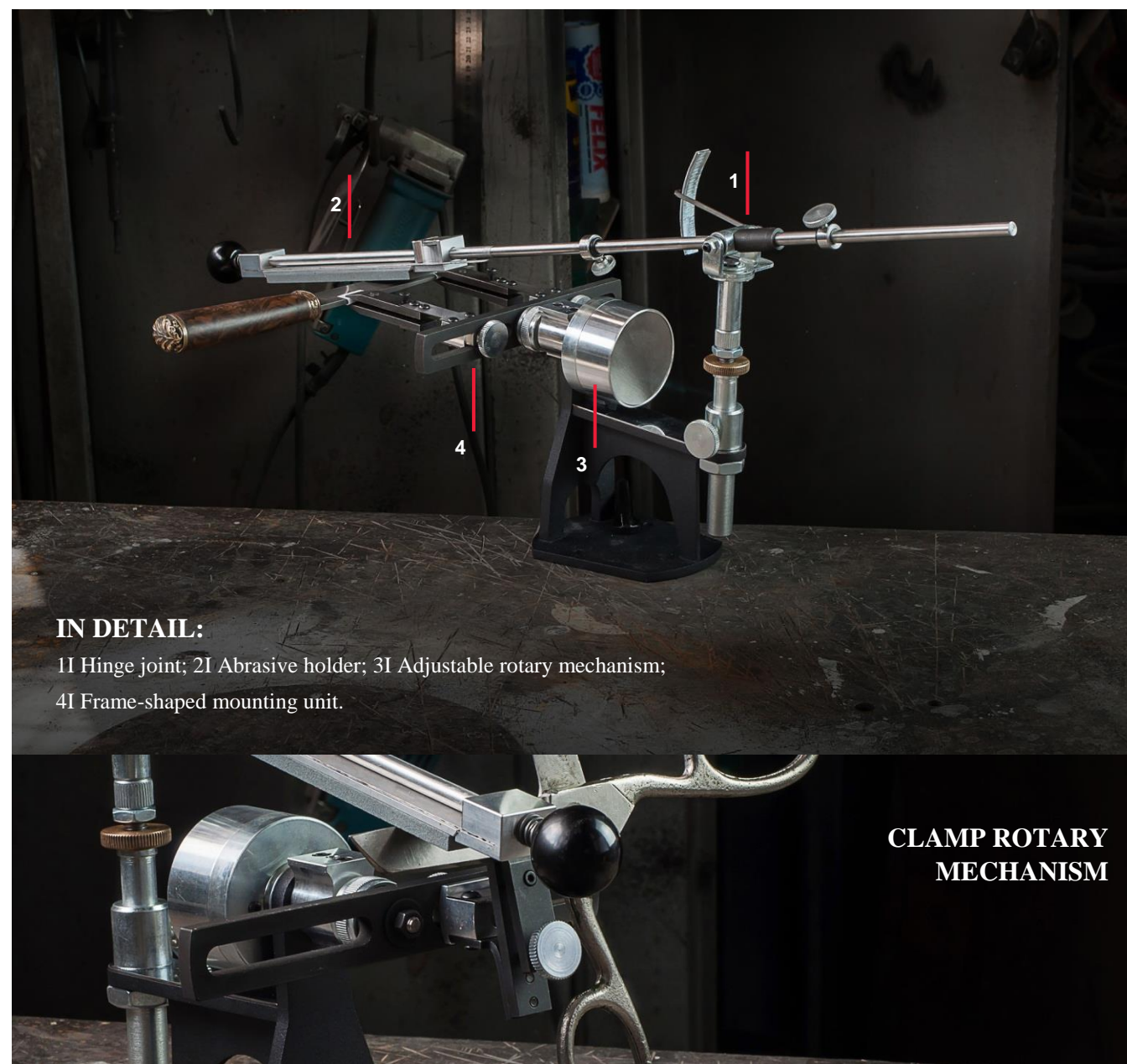




# K-02 sharp- ening system

**V** We wanted to make the K-02 model so that our customers do as little as possible to turn the blade. This is how we had the idea of the rotary mechanism to clamp the blade.

Many amateurs and professionals who have K-01 also bought the K-02 sharpening system. We were pleased to get a lot of positive feedback about K-02 from our permanent customers.



**Turning the clamp with the cutting tool has never been easier.**

With a single push, it makes a 180 degree turn and the mechanism locks in the horizontal plane automatically. There is a special nut to adjust the pressing effort.



**THE K-02 SHARPENING SYSTEM HAS GAINED IN POPULARITY AMONG PROFESSIONALS SINCE IT MAKES THEIR WORK REALLY COMFORTABLE.**



# Lifting unit option

- Allows you to sharpen the blades of most diverse cutting tools quickly and easily

Development of the idea of the K-02 sharpening system.

Lifting unit is integrated. The lifting unit transmission serves to convert the rotational motion of the gear (handle) into a progressive one of the rack (vertical - axis of the hinge joint).

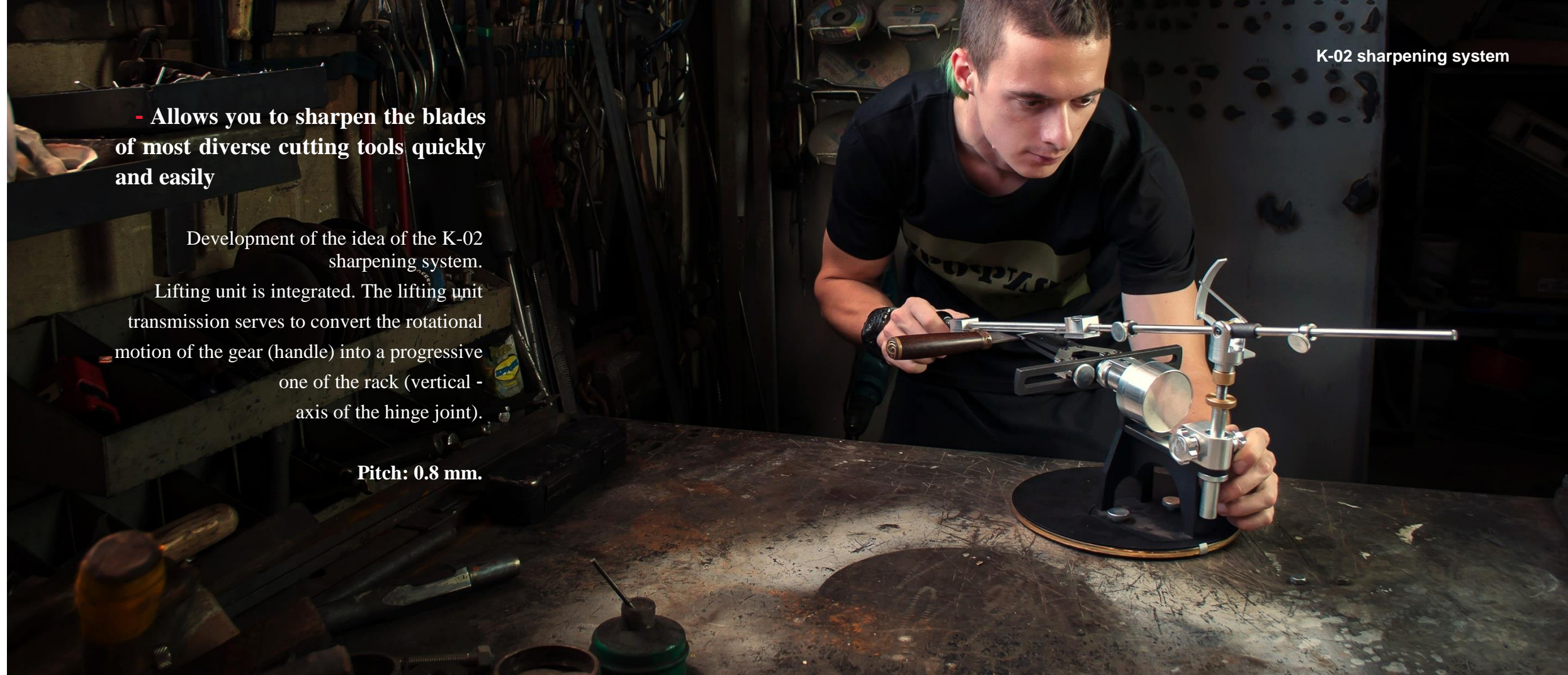
Pitch: 0.8 mm.



ENSURE THE NECESSARY ANGLE BETWEEN THE ABRASIVE AND THE SHARPENED SURFACES

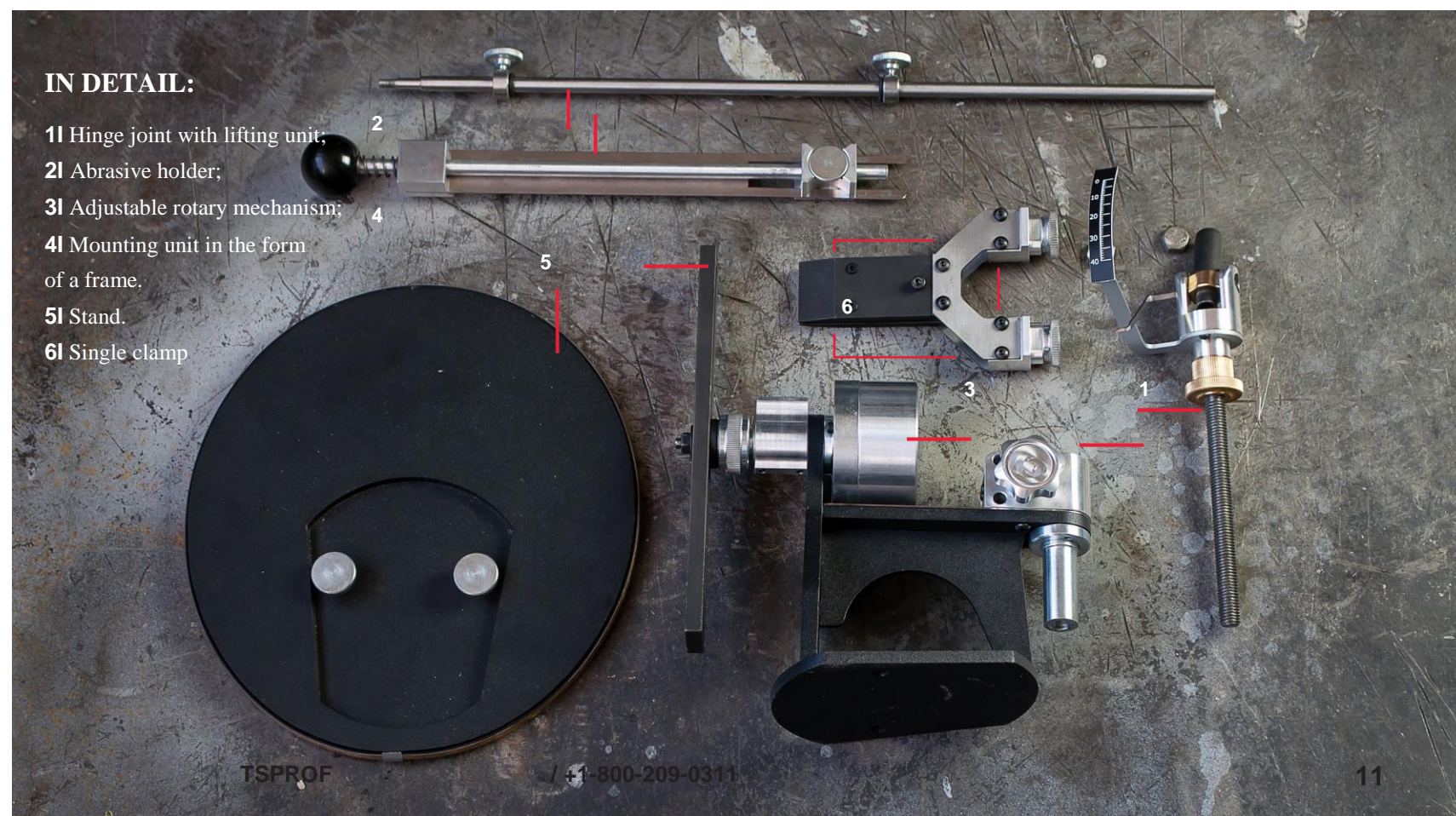


+1-800-209-0311/ TSPROF



## IN DETAIL:

- 1| Hinge joint with lifting unit;
- 2| Abrasive holder;
- 3| Adjustable rotary mechanism;
- 4| Mounting unit in the form of a frame.
- 5| Stand.
- 6| Single clamp



TSPROF

+1-800-209-0311

11



# Clamps

**P**rofile branded clamps securely hold the blade of any shape, thus ensuring that the jaws fit the spine tight, as well as that the blade is easy to access.

The clamp design is based on the three key elements: the foundation, the flat springs and the jaws.

The jaws are connected with the foundation through the flat flexible springs that provide universal fit when the knife is installed in the clamp. At this point the springs change from the free state to the stress one, when the fastening rigidity increases significantly.

Besides, the fastening and adjustment screws in the clamp form a rigid geometrical system, yet, at the same time, allow adjusting the clamp for a wide range of blade shapes and ensure the symmetry of setting.

This design is used in the entire line of the Profile clamps.

Jaws for the whole range of the Profile clamps are made from 65 g spring steel followed by heat treatment (the jaws hardness is **38..43 HRC**; they can withstand a load of up to **500 kg** ).

- The springs are made from special ground steel in accordance with GOST.

- Integrally-milled fasteners (*foundation*) from the **D16T** alloy are made at high-precision CNC machines.

- Fastening and adjusting screws are made from hot steel k.p 10.9 ... 12.9.

1 | D16T FASTENERS

2 | FASTENING AND ADJUSTMENT SCREWS

3 | JAWS ST. 65G HRC (38 ... 43)

4 | SPRINGS ST.65G





**K-01 SINGLE CLAMP**

Equipped with a shank for mounting on the Profile K-01 mouthing unit.



**K-02 SINGLE CLAMP**

Equipped with two fasteners for the Profile K-02 mounting unit (frame).

**Functionality:**

- Installation of two clamps at the same time.
- Use of the K-01 double clamps the frame.\*\*

The design of the clamps allows you to tightly and symmetrically clamp knives with a complicated blade geometry.

Recommendations for the thickness of the spine **from 3 to 7 mm:**

- Tourist knives
- Folding knives
- Hunting knives
- Survival knives
- Tactical knives

Angle range 10-32 degrees per side \*  
Jaws width 32 mm



**K-01 FILLET SINGLE CLAMP**

Equipped with a shank for mounting on the Profile K-01 mouthing unit.



*Jaws, springs and screws can be bought separately.*

*\* Depending on the width of the blade, the angle range may change*

*\*\* It is recommended to check the model of the frame and the clamps with the manufacturer*



**K-02 FILLET SINGLE CLAMP**

Equipped with two fasteners for the Profile K-02 mounting unit (frame).

**Functionality:**

- Installation of two clamps at the same time.
- Use of the K-01 double clamp .\*\*

Clamps with a modified configuration of jaws and special screws for a delicate sharpening of small (short) tools at an acute angle.

Recommendations for the thickness of the spine **from 2 to 3 mm:**

- Victorinox-type knives
- Small and folding knives
- Keychain knives
- Other narrow and short knives.

Angle range 7-32 degrees per side \*  
Jaws width 32 mm





**K-01 DOUBLE CLAMP**

Equipped with a frame and a shank for mounting on the Profile K-01 mounting unit.

You can use up to 4 clamps at the same time.



**K-02 DOUBLE CLAMP**

Equipped with two fasteners for the Profile K-02 mounting unit (frame).

**Functionality:**

- Installation of four clamps at the same time.
  - Use of the K-01 double clamp
- . \*\*

This is the most universal clamp of all the Profile clamps. Unlike a single clamp, here you can clamp thin and long blades. Thanks to two points of grip, the deflection of the blade is excluded. Clamps can be moved independently along the entire length of the frame with a distance between the clamps of 10 mm min and 160 mm max.

Recommendations for the thickness of the spine  
**from 2 to 4 mm:**

- Chef's knives
- Utility knives
- Boning knives
- For cutting vegetables
- Cleavers
- Folding knives.

The angle range is 10-32 degrees per side \*

Jaws width 16 mm, 2 pcs.

*Jaws, springs and screws can be bought separately.*

*\* Depending on the width of the blade, the angle range may change*



**K-01 FILLET DOUBLE CLAMP**

Equipped with a frame and a shank for mounting on the Profile K-01 mounting unit.

You can use up to 4 clamps at the same time.



**K-02 FILLET DOUBLE CLAMP**

Equipped with two fasteners for the Profile K-02 mounting unit (frame).

**Functionality:**

- Installation of four clamps at the same time.
  - Use of the K-01 double clamp
- . \*\*

Clamps with a modified configuration of jaws and special screws are intended for a delicate sharpening of tools at an acute angle. Thanks to two points of grip, the deflection of the blade is excluded. The clamps can be moved independently along the entire length of the frame.

The minimum distance between the clamps is 10 mm, and the maximum distance is 160 mm.

Recommendations for the thickness of the spine  
**from 1.5 to 3 mm:**

- Kitchen knives
- Fillet knives
- Keychain knives
- Straight razors
- And other long narrow knives

The angle range is 7-32 degrees per side \*

Jaws width 16 mm, 2 pcs.

*Jaws, springs and screws can be bought separately.*

*\* Depending on the width of the blade, the angle range may change*



**- This clamp can fully replace the standard double clamp.**

It can be installed in the K-02 frame or the frame of the K-01 double clamp. You can use up to 4 clamps at the same time.

Recommendations for the thickness of the spine **from 2 to 4 mm** (including the spine grinds):

- Chef's knives
- Utility knives
- Boning knives

- For cutting vegetables
- Cleavers
- Folding knives

Angle range 10-32 degrees per side\*  
Jaws width 16 mm, 2 pieces

### CONICAL DOUBLE CLAMP

The main distinguishing feature of this type of clamps is a conical pair with a screw drive which multiplies the compression of the jaws many times, reducing the load on the screw. The compression is done manually by a slight rotation of the side handle, without any additional wrenches.

The conical clamp increases the compression due to the symmetrical distribution of flexible loads on the power springs.

The cones are made of alloy steel with subsequent heat treatment and have a **hardness of 47..52 HRC**, which ensures the durability of this unit.

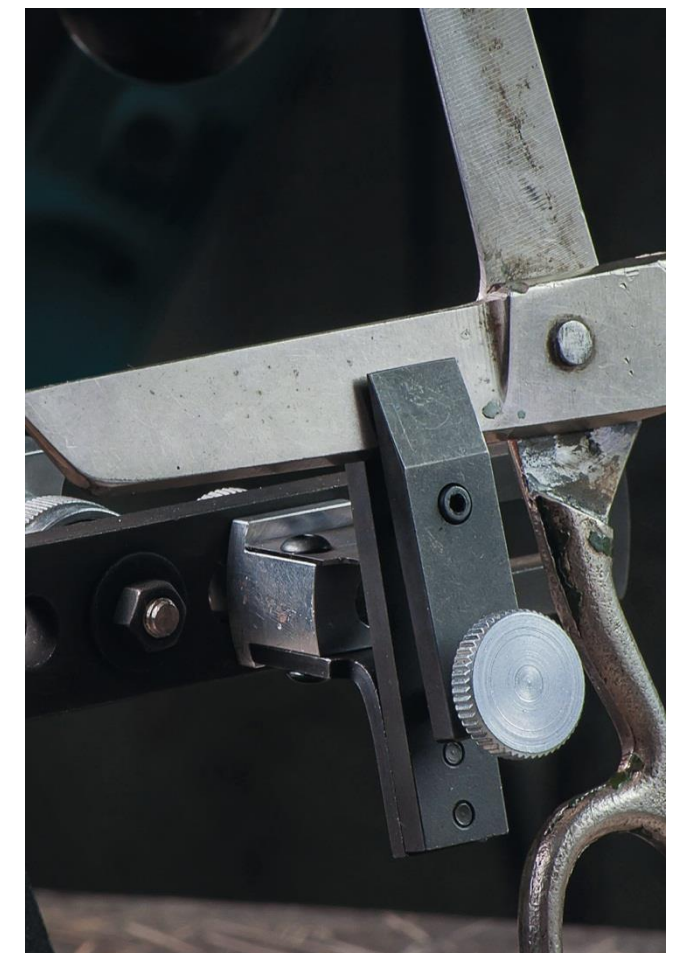
The clamping jaws are traditionally made of **65G** spring steel with subsequent heat treatment, **38 ... 43 HRC**

*Jaws, springs and screws can be bought separately.*



### ATTACHEMNT FOR SCISSORS

**M**ounted on the double clamp frame. Due to the vertical installation of the blade and adjusting mechanism, this fitting significantly expands the sharpening angle range, which allows sharpening a cutting tool with a big sharpening angle from 50 to 80 degrees.





**K-01/K-02 REMOVABLE TABLES**

Designed for free manual positioning of the blade without using clamps, which allows you to control the process of sharpening manually and sharpen blades with non-standard geometries.

**K-01 REMOVABLE TABLE**

The table is equipped with a mobile thrust plate to adjust the table for different tools.

The length/width of the table is 80mm/113mm. Angle range of 10-32 degrees (may vary depending on the tool).

**K-02 REMOVABLE TABLE**

The table has 2 longitudinal T-shaped grooves for 2 clamps to move independently.

To use additional clamps (fasteners), there are 4 through holes in the table surface.

Length / width 105 mm / 80 mm. Angle range of 10-32 degrees (may vary depending on the tool).

*It is possible to install in a double clamp frame on the K-01 model.*

+1-800-209-0311/ TSPROF

**STAND**

Metal base for holding the sharpening tools on the work surface of a table or a workbench.

It is used to fix the body of the tool on the work surface without using a clamp.

It allows you to install the Profile equipment without having to occupy the edge of the table and may also be helpful when using a clamp is difficult.

The design of the support matches the general style of the product and complements the design

perfectly, giving stability to the device and confidence and comfort to the user during the sharpening process.

To fix the body of the tool on the support, mount it in the appropriate place and tighten the fastening screws. The heads of the screws are designed so as to be tightened manually without a wrench. Upon completion of work, loosen the screw connections and remove the tool body from the support.

TSPROF

/ +1-800-209-0311

**FOR K-01 SINGLE CLAMP****FOR K-02 SINGLE CLAMP****FOR K-01/K-02 DOUBLE CLAMP****REINFORCED SPRINGS FOR K-01 AND K-02 SINGLE AND DOUBLE CLAMPS**

The increased thickness of the springs ensures exceptional stability of clamp operation.

Can be operated with increased loads (for example, can be used on hard steels).

Material: heat-processed 65G ground steel; Thickness: 1 mm (standard 0.8 mm); Load on abrasive, without deviations: 1 kg (standard 0.5 kg);



# Accessories





**CASE**

Branded case by the German company WAG is made of high-quality plastic. Maximum functionality and attractive design.

The elaborate case has comfortable beds specially designed for the Profile sharpening tool.

Has proved to be an excellent gift set

Overall dimensions: 497 x 411 x 120 mm.

**DESIGN FEATURES:**

- Shockproof
- Elegant with comfortable lock;
- Reliable straight hinge;
- Reliable carrying handle;
- High legs ensure excellent stability of the case;
- Special bed for each tool made by Profile.

**CASE FOR DIAMONDS**

Soft and durable nylon case for carrying and storing bars with a size of up to 210 mm. Velcro tape to cover the contents. There is a branded TS Profile patch on the case.

**ELECTRONIC ANGLE METER, ECONOMY.**

- Hold function
- Low battery indicator
- Calibration function
- Automatic screen rotation
- Automatic shutdown.

**Specifications:**

Housing: plastic

Current consumption, max: 3 mA

Operating temperature 0 to +40

Operating voltage 3 V / DC (CR2032 x 2)  
(not included in the standard delivery)

Accuracy 0.1 degrees

Dimensions (W x H x D): 60 x 37 x 16 mm (angle meter), 120 x 68 x 6 mm (mounting plate) Weight: 55 grams.

**ELECTRONIC ANGLE METER**

- Hold function
- Low battery indicator,
- Calibration function
- Automatic screen rotation,
- Automatic shutdown,
- Magnetic fastening

**Specifications:**

Housing: aluminum.

Current consumption, max: 3 mA

Operating temperature 0 to +40

Operating voltage 3 V / DC (CR2032 x 3)

Accuracy 0.1 degrees 5 \* 5 \* 2.6 cm.







#### CASE FOR ABRASIVE STONES

Soft and durable nylon case for carrying abrasive stones, intended for 6 items, maximum stone length 160 mm. Velcro tape for covering the contents. TS Profile branded patch.



#### WRENCH HOLDER

Metal wrench holder with magnetic base.

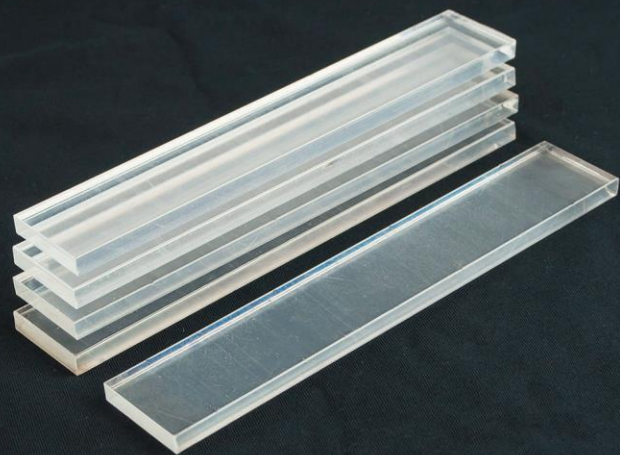


#### WRENCHES FOR CLAMPS 3 PCS.

Additional wrenches Torx T8, T10 and T15 for clamps.

#### MOLDS FROM PMMA 5 pcs.

Molds from PMMA 6mm thick, for abrasive size 170x30. Used with sandpaper, leather or stones to give stiffness.



#### DIGITAL USB MICROSCOPE.

Allows you to take pictures of the blade with a zoom which can magnify up to 500x.

Share your experience of sharpening, discuss the results of sharpening with colleagues, take pictures of perfectly sharp blades, and compare different techniques of sharpening, abrasives and sharpening tools.



#### LIQUID FOR ABRASIVE STONES

Branded lubricating and cooling liquid (coolant) from TS Profile, Russia.

Designed specifically for abrasive bars of various models. The coolant makes operations on the stone easier, eliminates local overheating during prolonged monotonous work, improves efficiency of stones, and reduces clogging and wear of stones of different types.

Not toxic; Ecologically clean; Biodegradable.



#### POCKET MICROSCOPE 60X WITH ILLUMINATION / LENS 40X WITH ILLUMINATION

Indispensable tool to control the blade down to the tiniest detail. Helps to see burrs, monitor the sharpening angle along the entire length of the blade, objectively assess the sharpness and polishing of the blade, see the blade under high magnification and achieve perfect sharpening.



#### ALUMINUM MOLDS 5 pcs

Aluminum molds for stones and leather 155x25mm with a bevel of 45 degrees. Help to clamp stones in the most reliable way and protect them from damage.



# Abrasives







**PROFILE ABRASIVES**

The set includes:

- 1** 5 bars on aluminum molds with a bevel of 45 degrees
- 2** A multi-purpose case.

This set has all you need for all types of work, from roughing to final grinding.

Stones: F120 25x6mm. F230 25x6mm. F400 25x6mm. F600 25x6mm. F1000 25x6mm.

\*Stones of green silicon carbide 64C, vitrified bond. Soak in water; work with water. You can work with oil since it will not damage vitrified bond.

Higher wear rate compared to Boride abrasives.

The stones are quite universal and can be used for sharpening a wide range of steels, including hardened and powdered steels with hardness above 60 HRC.



**SILICON CARBIDE ABRASIVE**  
**GRAIN** Silicon carbide powder (abrasive grain) is normally used for cleaning and dressing of grinding stones. Silicon carbide is good at dealing with dirt and irregularities on the abrasive.

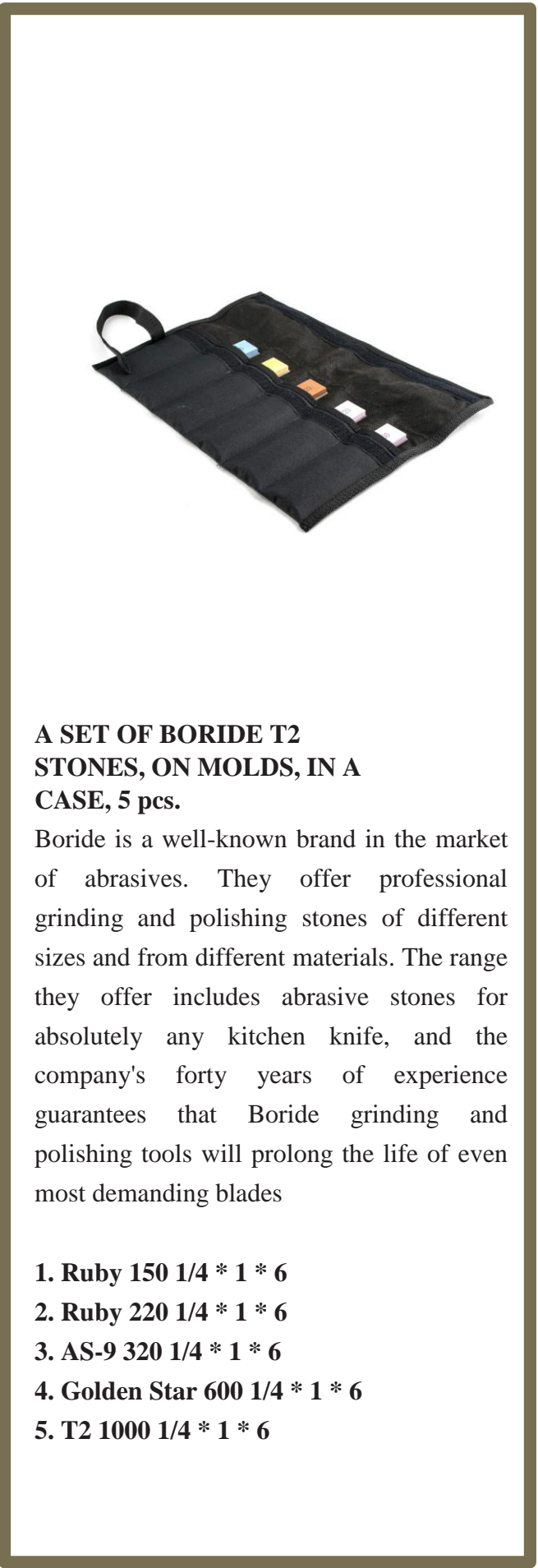
**A SET OF BORIDE T2 STONES, ON MOLDS, IN A CASE, 6 pcs.**

Boride abrasive stones in a case and on molds

The blue T2 series is made of aluminum oxide and uses very hard bond. Therefore, it has a high productivity and its wear rate is below average.

Boride recommends T2 as the best series for working with stainless steel.

- T2 150 1/4\*1\*6      T2 220 1/4\*1\*6    T2 320 1/4\*1\*6      T2 600 1/4\*1\*6    T2 800 1/4\*1\*6      T2 1200 1/4\*1\*6**



**A SET OF BORIDE T2 STONES, ON MOLDS, IN A CASE, 5 pcs.**

Boride is a well-known brand in the market of abrasives. They offer professional grinding and polishing stones of different sizes and from different materials. The range they offer includes abrasive stones for absolutely any kitchen knife, and the company's forty years of experience guarantees that Boride grinding and polishing tools will prolong the life of even most demanding blades

- 1. Ruby 150 1/4 \* 1 \* 6**
- 2. Ruby 220 1/4 \* 1 \* 6**
- 3. AS-9 320 1/4 \* 1 \* 6**
- 4. Golden Star 600 1/4 \* 1 \* 6**
- 5. T2 1000 1/4 \* 1 \* 6**



**BORIDE T2 NARROW BARS SET.**

Narrow stones are more convenient for sharpening S-shaped cutting edges, concave blades and cutting tools of small sizes.

- T2 320 1/8\*1/2\*6      T2 400 1/8\*1/2\*6    T2 600 1/8\*1/2\*6      T2 800 1/8\*1/2\*6    T2 1000 1/8\*1/2\*6      T2 1200 1/8\*1/2\*6**



**BORIDE CH-HD NARROW BAR SET**

Narrow stones are more convenient for sharpening S-shaped cutting edges, concave blades and cutting tools of small sizes.

**Dimensions:** 1/8 x 1/2 x 6 inches

**Grain:** 320, 400, 600, 800, 1000, 1200 grit





### SET OF DIAMOND STONES (2 PCS)

Diamond bar by a Russian manufacturer Venev Industrial Diamonds.

Unlike abrasive stones, diamond bars are much more wear-resistant, so they are recommended for hard steels.

Two-sided diamond bar. The two sides have different grain, which makes the bar more universal. The sides are marked for the grain size in accordance with the GOST scale.

Two-sided Venev diamond bars with a diamond concentration of 25%.

**Dimensions:** 200 \* 35 \* 10.

**Grain in microns:**

The first bar is 160 / 125- 50/40

The second bar is 20 / 14-7 / 5

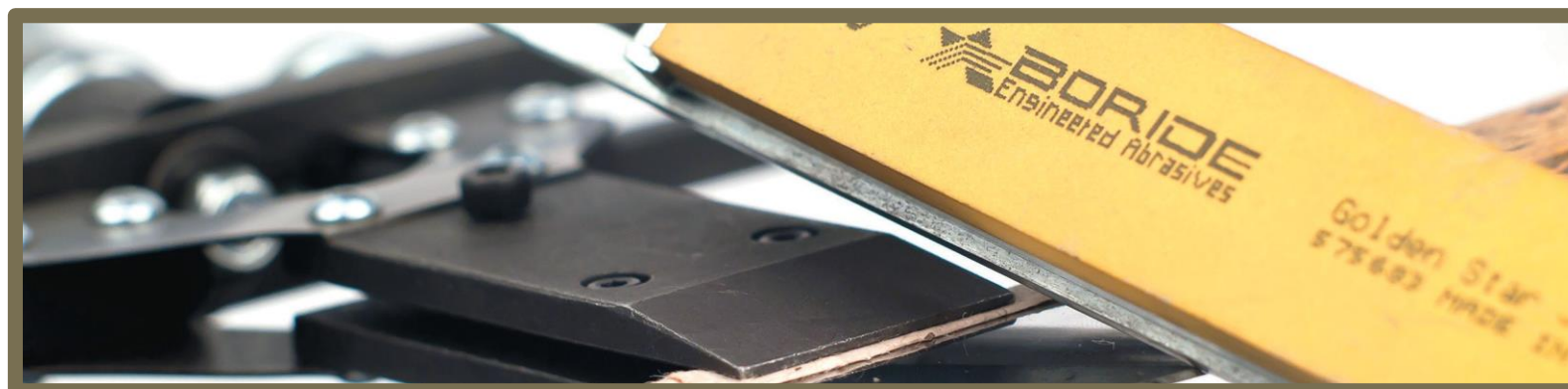
### DIAMOND STONE FOR ROUGH WORKS

- Roughing
- Repair work related to intensive removal of metal.
- Restoration and change of the knife geometry.
- When re-profiling of the cutting edge is required.
- Suitable for hardened and powdered steels.

**Stone size:** 200x35x10 mm

**Grain size:** 200/160 - 160/125  $\mu\text{m}$

**Concentration of diamond powder:** 100%



### SANDPAPER

**Grain:** P180 P240 P400 P600 P1000

**Size:** 28x230mm.

Waterproof 3M Wetordry Abrasive Paper Sheet 734 is made with the use of silicon carbide minerals with extremely high cutting ability. Designed for manual grinding.

Micro-thin 3M abrasive paper sheet 401Q.

**Grain:** P1500 and P2000. Size: 28x230 mm.



**DIALUX POLISHING PASTE** The gray one is for stainless steel and has a coarse grain. The white one is a finish for all kinds of metal. Aluminium oxide. **20/32  $\mu\text{m}$**

Recommended to be used with leather molds.



### LEATHER ON ALUMINUM BLANK 1 pc.

The leather mold is intended to finish the knife cutting edge.

Leather corrects irregularities of the cutting edge and makes it stronger. The work surface is made of very smooth high-quality cowhide glued to the durable aluminum mold. Operate the cowhide mold towards yourself only.

Mold length 150mm, width 25mm, cowhide thickness 3mm, mold thickness 3mm





#### DOUBLE-SIDE LEATHER BLANK (YUFT)

The leather mold is intended for final finishing of the cutting edge of the knife.

Clamped in the abrasive holder.

Leather corrects irregularities of the cutting edge and makes it stronger.

The work surface is made from very smooth, high-quality cowhide glued to a natural wood mold. The paste for manual polishing is applied on the velvet side (it is usually green in different companies; you can use GOI).

Beveling is done with onward movement in compliance with the sharpening angle. Do not use pastes or use the finish (white) paste to work with the smooth leather side.

**Dimensions:** 170x30x10 mm



#### BOARD WITH A HANDLE (YUFT)

The finishing board serves to fine-tune the cutting edge of the blade.

The paste for manual polishing is applied on the velvet side (it is usually green in different companies; you can use GOI).

Beveling is done with onward movement in compliance with the sharpening angle.

Do not use pastes or use the finish (white) paste to work with the smooth leather side.

With simple action, you can sharpen the knife to shaving sharpness. The main thing is not to overdo it and not to polish the cutting edge to the convex lens. The knife will shave, but it will not cut very well.







---

FOR  
NOTES

## Contacts

### **TSPROF HEAD OFFICE**

Office 405, Buiding 60, 10 Let Octyabrya Street,  
Nova Park Business Centre,  
+7 (3412) 640-701

### **DEALERS**

#### **Representative office in St. Petersburg**

Forest-Home retail store  
12, Apraksin per., m. Sennaya Square, St. Petersburg,  
website [forest-home.ru/category/2356/](http://forest-home.ru/category/2356/)

#### **Representative office in Moscow**

3, Zavodskaya Street, Veshki, MO, Moscow,  
tel. + 7-965-280-5555, + 7-985-228-5555  
website of the representative [msk.tsprof.com](http://msk.tsprof.com)



# Sales geography

**FOR US, BOUNDARIES DO NOT EXIST.**

**OUR SHARPENING SYSTEMS  
ARE USED WORLDWIDE!**

