



ЯХТИНГ

обувная фабрика

2015

ЯХТИНГ







## Dear partners!

LLC "Yahting" is a leading footwear factory in the Russian Federation, it performs complete production cycle for protective and special purpose shoes.

When creating new shoe models, we are basically motivated by development of all spheres of production, because it dictates new working conditions and involves achieving safety at our ultimate customers – all professionals in their fields.

Being based on researches of both leading foreign companies and our own company, we developed a new collection of shoes for protection against low temperatures, this collection combines traditional Russian materials with up-to-date processing methods. All that enables to use unique high boots-felt boots in severe climatic conditions, spare yourself trouble of adverse effect of not only cold but also aggressive medium.

We are looking to cooperate with companies, which are interested in work with accredited producer and permanent inovator in the Russian footwear market!



## Table of GOSTs

**GOST 12.4.137-2001**

Special footwear for protection against chemicals (oil and oil products) for men and women, including cold-protective: high boots with shortened boot tops; shoes with high quarters; half shoes.



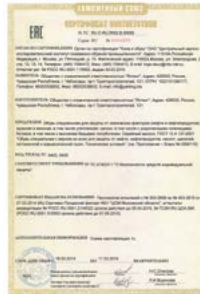
**GOST 12.4.187-97**

Special footwear for protection against total industrial pollution for men and women, including cold-protective: high boots with shortened boot tops; shoes with high quarters; half shoes.



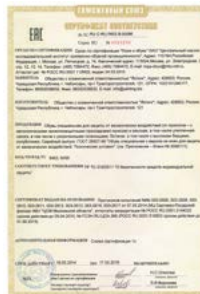
**GOST 12.4.032-95**

Special footwear for protection against high temperature for men made of heat-resisting natural leather with compounded rubber sole fixed by press direct moulded shoe constructed method: high boots with shortened boot tops; shoes with high quarters.



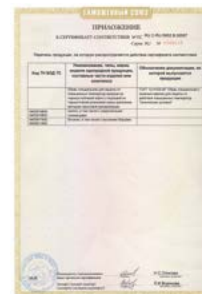
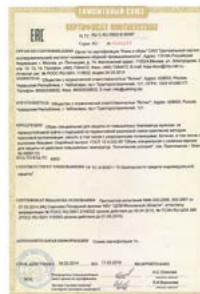
**GOST 28507-99**

Special footwear for protection against mechanical impacts (impacts in forepart region by energy of 200 Joule with internat protective metal toecaps) for men and women, including cold-protective: high boots with shortened boot tops; shoes with high quarters; half shoes.  
Special footwear for protection against mechanical impacts (punctures by metal puncture protecting shoe lining) for men and women, including cold-protective: high boots with shortened boot tops; shoes with high quarters; half shoes.



**TS 8830-001-13102141-2012 with revision № 1**

Special footwear for men and women with combined top of leather and felt or leather and felt with protective coating against low temperatures, oil, oil products and total industrial pollutions: high felt boots, felt boots with leather soles.



## MATERIALS USED:

**Cordura®** is highly wear-resistant material made of 100 % nylon of special structured fiber and water-repellant impregnation, at that having air-permeability.

**Tipica** is present-day cloth smooth to the touch surface, like thin elastic foam plastic, duplicated with non-woven fabric. Cloth is highly wear-resistant, as well it has an ability to absorb moisture and give it back quickly.

**Thinsulate®** is a heat insulating material, presenting a unique combination of heat protective and ventilating properties: it conserves heat properly, allows extra moisture to vapour easily. This heat insulator by no means encumbers movements and provides solid comfort, enabling to disregard any weather conditions, including most severe frost. Even thin layer of this microfiber heat insulator has extraordinary heat insulating properties in combination with durability, modesty and easiness in care.

**Oxford** is an everlasting cloth with applied polyurethane coating, which ensures water-repellant properties and prevents dirt accumulation between fibres.

**ASM fabric** is a lining cloth, three-layered, on foam plastic in 3 mm. It is applied for shoes lining. This fabric advantages are rubber fastness to wearing-off, water vapour permeability, comfort in wear.

## SOLES TYPES AND CONSTRUCTION METHODS:

### DOUBLE DENSITY POLYURETHANE RESIN

All shoe models with double density sole are made by direct polyurethane injection construction method to shoe upper.

#### Sole versions:

1. Shoetree fashion 459. The following combinations are applicable PU-PU, PU-TPU, PU-R. Size run: 36-47.

2. Alpha - Shoetree fashion 563. Light-weight two-layer sole (recommended for sandals and half shoes). Size run: 40-46.

3. PU-PU w - Shoetree fashion 563. Two-layer sole for women. Size run: 36-40.

4. PU-PU - Shoetree fashion Esjot (recommended for high boots, boots). Size run: 40-47.

### POLYURETHANE + TPU

#### Sole versions:

1. Shoetree fashion 459. The following combinations are applicable:

PU-TPU, PU-R. Size run: 36-47.

2. Alpha - Shoetree fashion 563. Light-weight PU-TPU sole (recommended for sandals and half shoes). Size run: 40-46.

3. PU-TPU - Shoetree fashion Esjot (recommended for high boots, boots). Size run: 40-47.

### SINGLE DENSITY POLYURETHANE RESIN

Sole is made of porosity material, with high mechanical stability and light weight.

#### Sole versions:

1. PU casted heel - Shoetree fashion 5A. Footwear on PU casted heel sole is made of one-layer polyurethane, forming sole with heel seat region. Size run: 39-40.

2. PU Pine - Shoetree fashion 563. Light-weight one layer sole. (recommended for sandals and half shoes). Size run: 35-46.

### PRESS VULCANIZATION OF RUBBER

Sole, manufactured on base of nitrile rubber by press direct moulded shoe construction method, is resistant to effect of high (up to +300°C) and low (up to -50°C) temperatures, wearproof and highly resistant to side-slipping

#### Sole version:

Rubber 1. shoetree fashion 5A. Size run: 40-47

2. shoetree fashion 459B. Size run: 38-46

3. shoetree fashion 459A shoes for asphalter.

Size run: 40-46

## SOLE TYPES AND ITS CONSTRUCTION METHODS



**459** PU-PU - double density polyurethane  
 PU-TPU - polyurethane-thermopolyurethane



PU-PU w - double density polyurethane for women



PU pine - single density polyurethane



PU-PU - double density polyurethane  
 PU-TPU - polyurethane-thermopolyurethane



PU-PU Alpha - double density polyurethane  
 PU-TPU Alpha - polyurethane - thermopolyurethane



PU casted heel- single density polyurethane



459 P - press direct injection by nitrile resin



5A P - press direct injection by nitrile resin



A - press direct injection by nitrile resin for asphalter's shoes

## EXPLANATION OF REFERENCE DESIGNATIONS



Protection against low t°



Protection against general industrial pollutions



Water-proof



Leather top



Protection against oil and oil products



Combination of materials



Protection against fire scales



Steel toe cap, polycarbonate toe cap, Load 200 Joule



Natural fur



Steel insole



Protection against high t°

## PHYSICAL AND MECHANICAL PERFORMANCE

**Samples:** polyurethane soles PU, PU-PU and TPU-PU.

**Material name:** PU system Dow Chemical – VORALAST™ GF 422 polyol, GF 967 isocyanate, GF 986 stitcher (insole layer), GF 829 stitcher(outsole layer), GF 203 stitcher (single density).

	Units of measure	Notation conventions			Quality data as per standard EN 344	Test method
		PU	PU-PU (outsole layer)	TPU-PU (outsole layer)		
Density	Kg/m <sup>3</sup>	550	1,07	1,18	normal	DIN 53420
Hardness after 15 sec	A Shore	55	62	65	normal	DIN 53505
Wearability (10 N load)not over	Mg of weight loss	85	65	60	Not more 150	DIN 53516
Flex strength at temperature +23°C	Number of bend (at least)	100 000	100 000	100 000	At least 30 000	DIN 53543
Flex strength at -35°C	Number of bend (at least)	-	30 000	30 000	At least 30 000	DIN 53543
Flex strength at temperature -25°C	Number of bend (at least)	30 000	-	-	At least 30 000	DIN 53543



## Recommendations on IPF usage and information on safe use methods:

- use footwear in conformity with markings of declared protective properties, conformity certificate and seasonal use;
- prevent top and sole cuts during footwear use, which may lead to decline in performance properties;
- it is necessary to shape shoes correctly to feet with allowances made for individual differences in foot, at try-on, shoes must not cause any discomfort, foot step must not be tight;
- to prevent sole separation it is not allowed to unshoe by stepping on heel;
- after hours, scrape shoes for mud accumulation and dry in exposed form in ventilated location over a distance at least 50 cm from heating appliances for airing and drying;
- it is not allowed to polish shoes with organic solvents;
- waste disposal of used up shoes is performed according to the rules set in normative documentation.

## Manufacturer warranty:

subject to the conditions of service and storage according to declared protective properties, as well as transportation and storage conditions

- guarantee wear period – 70 days since issue date;
- service life for IPF is not limited by manufacturer and depends on observance NTD requirements by customer while in use, transportation and storage;
- guarantee shelf life at customer's warehouse with undisturbed packaging subject to the conditions of stockholding and storage  
– 12 months from sale day.

## SIZES

Shoe size is determined by such basic values as shoe width (volume) inside shoe space and insole length.

There are two systems for shoe size numbering:

1. shtikh mass – shtikh is accepted as a measuring unit for insole length – shtikh is an old French length measuring unit equal to 2/3 cm or 6,67 mm.
2. metric unit is 1mm or 1 cm.

### ESTIMATED MATCH OF SHOE SIZE TO DIFFERENT NUMBERING SYSTEMS

<b>FOR WOMEN</b>										
Metric numbering system	22,5	23	23,5	24,5	25	25,5	26	26,5	27	27,5
Shtikh mass numbering system	35	36	37	38	39	40	40,5	41	42	43
<b>FOR MEN</b>										
Metric numbering system	25	25,5	26	26,5	27	27,5	28	28,5	29	30
Shtikh mass numbering system	39	40	40,5	41	42	43	43,5	44	45	46

# HIGH FELT BOOTS

Boots are specially made of felt from smooth coated or coarse coated 100% sheep wool and natura leather, with oil, petrol resistant soles from rubber and polyurethane by injection construction method, sole out of thermo-elastic plastic with glue stitched construction method is meant for feet protection against low temperatures, oil products and general industrial pollution. Material is rubberized felt and natural leather. Split-tyle boot top with adjustable clasp for wedge located outside, which enables to tuck trousers low part inside high boots and fasten down by foot, that enables protection against intrusion of dust and small parts inside footwear. Such felt boots are irreplaceable in-use in all climatic zones, retained all better characteristics of natural shoes, they are so popular in our country and become good alternative to traditional felt boots. High felt boots may be used in various fields of industry, construction, agriculture, storage and communal facilities. These high boots will help you not only to survive in severe frost, but will also protect you against mechanical damage, and felt cover will let you work securely all winter time till spring snowbreak. Usage of polycarbonate toecap protects toes from mechanical impacts (200 Joule), and kevlar insocks protect foot against punctures.





**Models:**

11-91 P – natural leather, felt  
11-911 P – natural leather, felt, polycarbonate  
toecap (200 Joule)

**Sole:**

P – nitrile rubber  
TS 8830-001-13102141-2012 with  
revision №1  
Size run: 38-46



**Models:**

11-91 K P – natural leather, felt, selfbelt  
11-911 K P – natural leather, felt,  
selfbelt polycarbonate toecap (200 Joule)

**Sole:**

P – nitrile rubber  
TS 8830-001-13102141-2012 with  
revision №1  
Size run: 38-46





**Models:**

11-92 P – natural leather, felt with 5 mm of rubber coating  
11-921 P – natural leather, felt with 5 mm of rubber coating,  
polycarbonate toecap (200 Joule)

**Sole:**

P – nitrile rubber

TS 8830-001-13102141-2012 rev.№1

Size run: 38-46



**Models:**

11-92 K R – natural leather, felt with 5 mm of rubber coating,  
self-belt

11-921 K R – natural leather, felt with 5 mm of rubber coating,  
self-belt, polycarbonate toecap (200 Joule)

**Sole:**

R – nitrile rubber

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Size run: 38-46





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**Models:**

11-82 P – natural leather, felt

11-821 P – natural leather, felt, polycarbonate toecap (200 Joule)

11-87 P – haircell print, felt

11-871 P – haircell print, felt, polycarbonate toecap (200 Joule)

**Sole:**

R – nitrile rubber

TS 8830-001-13102141-2012 rev. №1

**Size run: 38-46**









**Models:**

11-93 K R – natural leather, combined boot top:  
felt + felt with coating, self-belt  
11-931 K P – natural leather, combined boot top:  
felt + felt with coating, self-belt,  
polycarbonate toecap (200 Joule)

**Sole:**

R – nitrile rubber  
TS 8830-001-13102141-2012 rev. №1

**Size: 38-46**





**Models:**

11-82 PU-TPU – leather, felt

11-821 PU-TPU – natural leather, felt polycarbonate toecap (200 Joule)

**Sole:**

PU-TPU – polyurethane+thermopolyurethane

TS 8830-001-13102141-2012 rev. №1

**Size run: 38-46**



**Models:**

11-87 PU-TPU–haircell print, felt

11-871 PU-TPU– haircell print, felt , polycarbonate toecap (200 Joule)

**Sole:**

PU-TPU–polyurethane+thermopolyurethane

TS 8830-001-13102141-2012 rev. №1

**Size run: 38-46**



# PRESS DIRECT RUBBER INJECTION

Shoes with nitrile sole are manufactured by press direct moulded shoe construction method.

VULCANIZATION is the method of upper shoe construction to sole by direct moulding. Upper shoe is secured over specially prepared hollow mould in the special machine, wherein liquid rubber is fed under pressure. At sole construction by press direct moulding, rigid upper shoe mounting to sole is performed. Sole is securely fastened to upper shoe, due to this, moisture does not pass inside shoe.

**Shoes with soles made of nitrile rubber have high resistance to side-slip, wearproof, protect against:**

- exposure to aggressive medium (oil products, acid and alkalies)
- exposure to low and high temperatures (from -50°C up to +300°C).

**New tread design with pattern of sole toe plate has variety of advantages:**

- excellent adhesion quality with surface, due to tread with asymmetric directed ground-grip bars
- contemporary sole design, comfortable shoetree
- potential fitting with composite toecap for protection against 200 Joule
- potential fabrication of shoes with smooth soles without tread

for roadworkers and asphalt spreaders.



# SPECIALIZED SHOE MODEL FOR ASPHALT SPREAD AND ROAD WORKS

HRO rubber sole with flat wearing surface leaves no trace on road pavement, withstands high temperature up to +200°C and ensures protection against aggressive medium.

**The following materials may be used:**

**Shoe upper** – natural leather.

Lining – baize, felt

Toecap – thermoplastic, steel 200 Joule



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**Models:**

- 2-32 A – natural leather
- 2-321 A – natural leather, steel toecap
- 2-33 A – natural leather, wool, fur
- 2-331 A – leather, wool, fur, steel toecap
- 2-35 A – natural leather, artificial fur
- 2-351 A – leather, artificial fur, steel toecap
- 2-36 A – leather, natural fur
- 2-361 A – leather, natural fur, steel toecap

**Sole:**

P – nitrile rubber  
GOST 12.4.032-95, 12.4.137-2001, 28507-99

Size run: 40-46



**Models:**

- 3-02 A – natural leather
- 3-021 A – natural leather, steel toecap
- 3-32 A – natural leather, felt
- 3-321 A – leather, felt, steel toecap

**Sole:**

P – nitrile rubber  
GOST 12.4.032-95, 12.4.137-2001, 28507-99

Size run: 40-46





**Models:**

- 1-72 A – natural leather
- 1-721 A – leather, steel toecap
- 1-77 A – haircell print
- 1-771 A – haircell, steel toecap

**Sole:**

R – nitrile rubber

GOST12.4.032-95, 12.4.137-2001, 28507-99

Size run: 39-47



**Models:**

- 1-82 A – leather, felt

**Sole:**

R – nitrile rubber

GOST12.4.032-95, 12.4.137-2001, 28507-99

Size run: 40-46







**Models:**

2-42 A – natural leather, felt

2-421 A – leather, felt, steel toecap

**Sole:**

R – nitrile rubber

GOST12.4.032-95, 12.4.137-2001, 28507-99

**Size run: 40-46**



  
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# BOOTS WITH RUBBER SOLE

Cross functional leather boots are suited to protection against mechanical impacts, oil and oil products, may be used outside.

Footwear has the following characteristics:

- potential installation of inside steel toecap (impact energy 200 Joule) and anti-puncture insole, protecting workers' feet against impacts and punctures;
- increased hydroprotection;
- resistant to effect of aggressive medium (oil products, acid and alkalies);
- resistant to effect of low and high temperature (from -50°C up to +300°C);
- high resistance to side-slip;
- high wear-resistance

## The following materials may be used:

Vamp, quarter – natural leather

Heat insulator – artificial, natural fur, wool

Toecap – thermoplastic, steel (200 Joule).

## Models:

2-32 R – natural leather

2-33 R – leather, wool, fur

2-35 R – leather, artificial fur

2-36 R – leather, natural fur

2-321 R – natural leather, steel toecap

2-331R – leather, wool, fur, steel toecap

2-351 R – leather, artificial fur, steel toecap

2-361 R – natural leather, fur, steel toecap

## Sole:

R - direct press nitrile rubber injection

GOST: 12.4.032-95, 28507-99, 12.4.137-2001

Size run: 40-47





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## NITRIL BOOTS

Boot-top is adjusted across the width by buckle with clasp. 2 bucles are provided in boots of 32 cm height.

**The following materials may be used:**

Vamp – natural leather.  
Boot-top – PVC, leather  
Heat insulator – artificial, natural fur, baize, wool.  
Toecap – thermoplastic, steel (200 Joule).



**Models:**

- 1-21 P – leather-artificial leather
- 1-22 P – natural leather
- 1-23 P – leather, wool, fur
- 1-24P-leather-artificial leather, fur
- 1-25 P – leather, artificial fur
- 1-26 P – leather, natural fur



- 1-211 P – leather-artificial leather, steel toecap
- 1-221 P – natural leather, steel toecap
- 1-231 P – leather, wool, fur, steel toecap
- 1-241 P – leather-artificial leather, fur, steel toecap
- 1-251 P – leather, artificial fur, steel toecap
- 1-261 P – natural leather, fur, steel toecap

**Sole:**

P - direct press rubber moulding  
**GOST: 12.4.032-95, 28507-99, 12.4.137-2001**

**Size run: 40-47**



**Models:**

- 1-11 P – leather-artificial leather
- 1-12 P – natural leather
- 1-13 P – leather, wool, fur
- 1-14P-leather-artificial leather, fur
- 1-15 P – leather, artificial fur
- 1-16 P – natural leather, fur

- 1-111 P – leather-artificial leather, steel toecap
- 1-121 P – natural leather, steel toecap
- 1-131 P – leather, wool, fur, steel toecap
- 1-141 P – leather-artificial leather, fur, steel toecap
- 1-151 P – leather, artificial fur, steel toecap
- 1-161 P – natural leather, fur, steel toecap

**Sole:**

P - direct press rubber moulding  
**GOST: 12.4.032-95, 28507-99, 12.4.137-2001**

**Size run: 40-47**



# WELDER'S BOOTS

Leather boots with soft edge piping, with inside full bellows tongue, which eliminates penetration of various particles inside the footwear, and outside tongue for bootstraps protection. Strap provides postfixation. Shoes are recommended to use in welding for feet protection against contact with heated surface if operating in hot shops. Usage temperature range is from -50°C up to +300°C. Sole is oil, petrol resistant, acid-alkalies resisting properties, steel toecap ensures toes protection against mechanical impacts (200 Joule).



TOP SELLER



#### Models:

- 2-321 W P – natural leather, steel toecap
- 2-331 W P – leather, wool, fur, steel toecap
- 2-351 W P – leather, artificial fur, steel toecap
- 2-361 W P – natural leather, fur, steel toecap

#### Sole:

P - direct press rubber moulding

GOST: 12.4.032-95, 28507-99, 12.4.137-2001

Size run: 40-47



# FOUNDRYMAN'S BOOTS



TOP SELLER

## Models: 32 cm height

- 1-421 P – natural leather, steel toecap
- 1-421 d P – natural leather, steel toecap, coupled with baize
- 1-431 P – natural leather, wool, fur, steel toecap
- 1-451 P – natural leather, artificial fur, steel toecap
- 1-461 P – natural leather, natural fur, steel toecap

## Sole:

P - direct press rubber moulding

GOST: 12.4.032-95, 12.4.187-97, 12.4.137-2001

Size run: 40-47



High boots made of natural leather with rubber banded upturn and impact-modified inside steel toecap on heat-resisting sole out of nitrile rubber made by direct injection construction method.

Sole is oil, petrol resisting, acid-alkalies resisting properties, stable to side-slipping, withstands temperature from -50°C up to +300°C.

Upturn provides complete adjoining of edge piping, eliminates penetration of various particles inside the footwear, steel toecap ensures toes protection against mechanical impacts of 200 Joule.



## Models: 24 cm height

- 15-421 P – natural leather, steel toecap
- 15-421 d P – natural leather, steel toecap, coupled with baize
- 15-431 P – natural leather, wool, fur, steel toecap
- 15-451 P – natural leather, artificial fur, steel toecap
- 15-461 P – natural leather, natural fur, steel toecap

## Sole:

P - direct press rubber moulding

GOST: 12.4.032-95, 12.4.187-97, 12.4.137-2001

Size run: 40-47



# SPECIAL HIGH BOOTS

Fireman's high boots ensure protection against adverse and environmental hazards occurring during fire extinguishing and recification of the consequences of accidents, against climatic and mechanical impacts.

High boots are used in climatic zones with temperature from -50°C.

## The following materials may be used:

Footwear upper part - heat-resistant natural leather

Footwear lower part - heat-resistant natural leather

Toecap – steel (200 Joule).

Sole – wearproof heat resisting rubber

## Protecting elements:

- anti-puncture insole
- steel toecap

Sole made of wearproof and oil, petrol resistant rubber, steel anti-puncture insole and toecap are used as protecting elements.

## Technical specifications:

- Feet protection against temperature at least 200°C and heat flow at least 5 kW/m<sup>2</sup> within at least 5 minutes;
- Sole puncture resistance is at least 1200 H;
- Inside safety clearance in forepart region at impact energy of (200 +-5) Joule is atleast 20 mm;
- Protection against water and aggressive medium
- Freeze resistance is up to - 50°C.

**GOST 12.4.137-2001, 12.4.187-97, 28507-99, 12.4.032-95**

## Model:

4906 P – leather, steel toecap, anti-puncture insole

## Sole:

P - direct press rubber moulding

Size run: 40-46







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**Models:**

1-621-7 P – leather, steel toecap, anti-puncture insole

**Sole:**

P - direct press rubber moulding

Size run: 40-46



# DOUBLE DENSITY PU

Double density sole consists of two layers: central (intermediate) layer is made of polyurethane, outsole – of solid-cast polyurethane, thermopolyurethane and nitrile rubber. Shoes have advantages of each out of both materials. Due to polyurethane intermediate layer, all double density soles do not make shoes heavy and attached to shoe top by direct press moulding construction method.

By using combination of outsole and intermediate polyurethane layer, we obtain protection against:

- effect of aggressive medium (oil products, acids and alkalies)
- effect of low and high temperatures (from -30°C up to +150°C).

Shoes comply with high requirements of European standard EN 345. Anatomic shape shoetrees enable to work in shoes all long working day and not to feel discomfort and fatigue.

**PU-TPU sole** – double density polyurethane sole. Combination of material with outsole solid-cast layer is commonly used. Internal polyurethane layer is soft, elastic and comfortable for long wear, while external polyurethane sole is more compact, strong, resistant to side-slipping

**PU-TPU sole** – sole inside layer is made of soft absorbing polyurethane, outside layer is made of thermoplastic polyurethane. The advantages of PU outside layer over double density PU-PU sole are increased resistance to side-slipping, high degree of binding to sole inside layer, high resistance to disruption, tolerance to low and high temperatures.

**PU-R sole** – inside layer is made of soft, plyable polyurethane. Outsole is made of rubber, possesses properties typical for single density sole from nitrile rubber.

## BOOTS

Work boots with soft edge piping and bootstraps, supportive to tight and comfortable fitting to foot. They are suitable for work in shops and open air. Boots protect against mechanical impacts and factory accidents.

### **The following materials ma be used:**

Vamp–leather, haircell print  
Quarter–leather, haircell  
print

Lining – lining split leather, cloth  
«Tipica», artificial fur, wool, fur  
Toecap – thermoplastic, steel  
(200 Joule).

TOP SELLER



**Models:**

- 5-52 PU-PU Alpha – natural leather
- 5-53 PU-PU Alpha – leather, wool, fur
- 5-55 PU-PU Alpha – leather, artificial fur
- 5-57 PU-PU Alpha – haircell print
- 5-58 PU-PU Alpha – haircell, artificial fur

- 5-521 PU-PU Alpha – natural leather, steel toecap
- 5-531 PU-PU Alpha – leather, wool, fur, steel toecap
- 5-551 PU-PU Alpha – leather, artificial fur, steel toecap
- 5-571 PU-PU Alpha – haircell print, steel toecap
- 5-581 PU-PU Alpha – haircell, artificial fur, steel toecap

**Sole:**

- PU-PU Alpha – double density polyurethane
- PU-TPU Alpha – polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 40-46**



TOP SELLER



**Models:**

- 5-52 PU-PU w – natural leather
- 5-53 PU-PU w – leather, wool, fur
- 5-55 PU-PU w – leather, artificial fur
- 5-57 PU-PU w – haircell print
- 5-58 PU-PU w – haircell, artificial fur

- 5-521 PU-PU w – natural leather, steel toecap
- 5-531 PU-PU w – leather, wool, fur, steel toecap
- 5-551 PU-PU w – leather, artificial fur, steel toecap
- 5-571 PU-PU w – haircell print, steel toecap
- 5-581 PU-PU w – haircell, artificial fur, steel toecap

**Sole:**

- PU-PU – double density polyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 36-40**



# BOOTS

Boots are made of natural leather by direct press double density polyurethane moulding to upper shoe construction method.

Double density sole is resistant to effect of aggressive substances. Intermediate layer possesses absorbing properties and adds lightness and comfort to shoes. Outsole layer is made of wearproof polyurethane with improved resistance to side-slipping, deformation and abrasion endurance. Comfort design of shoetree allows to work day-long feeling no fatigue and discomfort. Anatomic shape insock efficiently distributes a load over footstep.

## The following materials may be used:

Upper – natural leather, haircell print

Lining – textile fabric – tunica – new cloth with surface smooth to the touch is thin elastic foam plastic, doubled with non-woven fabric

Toecap – thermoplastic, steel [200 Joule].

Color of outsole layer – gray, black, blue, red, yellow, green.

## Sole:

PU-PU-polyurethane+ polyurethane

## Models:

5-62 PU-PU Alpha – natural leather  
5-63 PU-PU Alpha – leather, wool, fur  
5-65 PU-PU Alpha – leather, artificial fur  
5-67 PU-PU Alpha – xpom  
5-68 PU-PU Alpha – xpom, artificial fur

5-621 PU-PU Alpha – natural leather, steel toecap  
5-631 PU-PU Alpha – leather, wool, fur, steel toecap  
5-651 PU-PU Alpha – leather, artificial fur, steel toecap  
5-671 PU-PU Alpha – haircell print, steel toecap  
5-681 PU-PU Alpha – haircell, artificial fur, steel toecap

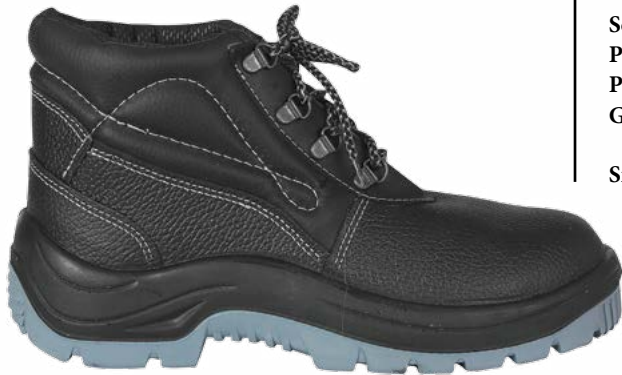
## Sole:

PU-PU Alpha– double density polyurethane  
PU-TPU Alpha– polyurethane-thermopolyurethane

GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46





**Models:**

2-12 PU-PU – natural leather  
2-13 PU-PU – leather, wool, fur  
2-15 PU-PU – leather, artificial fur  
2-16 PU-PU – leather, natural fur

2-121 PU-PU – natural leather, steel toecap  
2-131 PU-PU – leather, wool, fur, steel toecap  
2-151 PU-PU – leather, artificial fur, steel toecap  
2-161 PU-PU – natural leather, fur, steel toecap

**Sole:**

PU-PU – double density polyurethane  
PU-TPU – polyurethane-thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-47



# BOOTS

Boots are made of natural leather. Soft edge piping, full bellows tongue and bootstraps provide tight and comfort adjoining to foot, protect against dust and dirt penetration.

## The following materials may be used:

Upper – natural leather, haircell print  
Lining – textile fabric – tunica – new cloth with surface smooth to the touch is thin elastic foam plastic, doubled with non-woven fabric, artificial fur, wool, natural fur.  
Toecap – thermoplastic, steel (200 Joule).  
Color of outsole layer – gray, black, blue, red, yellow, green.

## Sole:

PU-PU – polyurethane + polyurethane

## Models:

2-52 PU-PU w – natural leather  
2-53 PU-PU w – leather, wool, fur  
2-521 PU-PU w – natural leather, steel toecap  
2-531 PU-PU w – leather, steel toecap, wool, fur  
2-55 PU-PU w – natural leather, artificial fur  
2-551 PU-PU w – leather, artificial fur, steel toecap  
2-56 PU-PU w – natural leather, natural fur  
2-561 PU-PU w – leather, natural fur, steel toecap

## Модели:

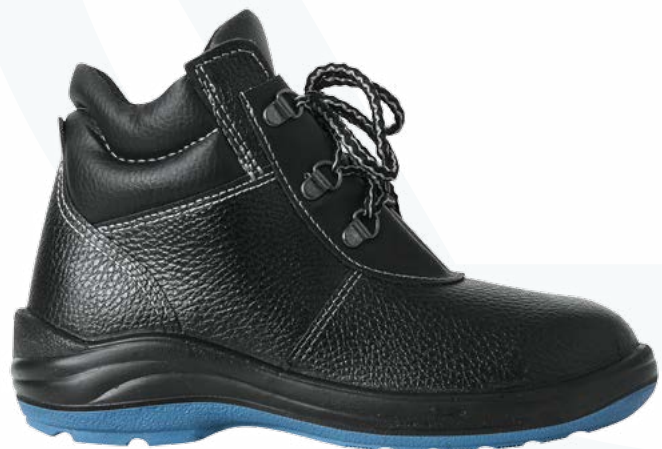
2-57 PU-PU w – haircell print  
2-571 PU-PU w – haircell print, steel toecap  
2-58 PU-PU w – haircell print, artificial fur  
2-581 PU-PU w – haircell, artificial fur, steel toecap  
2-59 PU-PU w – haircell print, natural fur  
2-591 PU-PU w – haircell, natural fur, steel toecap

## Sole:

PU-PU – double density polyurethane

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 36-40**



GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-47



**Models:**

- 2-52 PU-PU – natural leather
- 2-53 PU-PU – leather, steel toecap, wool, fur
- 2-55 PU-PU – natural leather, artificial fur
- 2-57 PU-PU – haircell print
- 2-58 PU-PU – haircell print, artificial fur
- 2-59 PU-PU – haircell print, natural fur
  
- 2-521 PU-PU – natural leather, steel toecap
- 2-531 PU-PU – leather, steel toecap, wool, fur
- 2-551 PU-PU – leather, artificial fur, steel toecap
- 2-571 PU-PU – haircell print, steel toecap
- 2-581 PU-PU – haircell, artificial fur, steel toecap
- 2-591 PU-PU – haircell print, natural fur, steel toecap

**Sole:**

- PU-PU – double density polyurethane
- PU-TPU: polyurethane-thermopolyurethane



GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46



**Models:**

- 2-52 PU-PU Alpha – natural leather
- 2-53 PU-PU Alpha – leather, wool, fur
- 2-55 PU-PU Alpha – leather, artificial fur
- 2-57 PU-PU Alpha – haircell print
- 2-58 PU-PU Alpha – haircell, artificial fur
- 2-59 PU-PU Alpha – haircell, natural fur
  
- 2-521 PU-PU Alpha – natural leather, steel toecap
- 2-531 PU-PU Alpha – leather, wool, fur, steel toecap
- 2-551 PU-PU Alpha – leather, artificial fur, steel toecap
- 2-571 PU-PU Alpha – haircell print, steel toecap
- 2-581 PU-PU Alpha – haircell, artificial fur, steel toecap
- 2-591 PU-PU Alpha – haircell, natural fur, steel toecap

**Sole:**

- PU-PU Alpha – double density polyurethane
- PU-PU Alpha – polyurethane-thermopolyurethane



# LEATHER BOOTS

Resistant to oil, petrol, acid and alkalis double density sole is a protection against aggressive medium: oil products, alkalis with concentration up to 20%. Insole polyurethane layer has absorbing characteristics, damps impulse loads, as well as it adds lightness and comfort to shoes, and increases heat retention.

Full bellows tongue eliminates penetration of moisture, dust and small parts. Soft edge piping protects against lateral impacts. Insock made of foam material provides comfort in use. Spatial shoetree enables to work day-long feeling no discomfort and fatigue.

## The following materials may be used:

Upper – natural leather

Lining – artificial fur, textile fabric, wool, fur

Toecap –thermoplastic, steel [200 Joule].

Color of outsole layer – grey, black, blue, red, yellow, green

## Sole:

PU-PU –polyurethane + polyurethane

PU-TPU– polyurethane +thermopolyurethane

PU-R –– polyurethane+ nitrile

**GOST: 12.4.137-2001, ГОСТ 28507-99**

## Модели:

1-001 459 – natural leather

1-003 459 – natural leather, wool, fur

1-001-1 459 – natural leather, steel toecap

1-003-1 459 – leather, wool, fur, steel toecap

1-005 459 – natural leather, artificial fur

1-005-1 459 – leather, artificial fur, steel toecap

## Sole:

459 – double density polyurethane

PU-TPU:polyurethane-thermopolyurethane

**Size run: 33-47**





# WOMEN BOOTS

Boots with wide soft edge piping and full bellows tongue over bootstraps are recommended for production works, in open air and indoors. They protect against mechanical impacts and factory accidents.

## The following materials may be used:

Upper – natural leather, haircell print

Lining – Tunica fabric, artificial fur, wool, fur

Toecap – thermoplastic, steel (200 Joule).

Color of outsole layer – grey, upon agreement with customer, it may be changed into corporate color

## Sole:

PU-PU –polyurethane+polyurethane

GOST: 12.4.137-2001, 12.4.187-97, 28507-99

## Models:

1-502 PU-PU w – natural leather

1-503 PU-PU w – leather, wool, fur

1-505 PU-PU w – leather, artificial fur

1-507 PU-PU w – haircell print

1-508 PU-PU w – haircell, artificial fur

1-502-1 PU-PU w – natural leather, steel toecap

1-503-1 PU-PU w – leather, wool, fur, steel toecap

1-505-1 PU-PU w – leather, artificial fur, steel toecap

1-507-1 PU-PU w – haircell print, steel toecap

1-508-1 PU-PU w – haircell, artificial fur, steel toecap

## Sole:

PU-PU – double density polyurethane

Size run: 35-40



# WORK SHOES

Cross functional shoes for workers in different industrial fields, services. Shoes with leather upper part on double density sole is resistant to oils, crude oil, various oil products. Soft

edge piping, nicely infolds ankle, prevents dirt penetration inside shoes.

## The following materials may be used:

Upper – natural leather, haircell print  
Toecap – thermoplastic, steel (200 Joule)  
Color of outsole layer – grey, black, blue, red, yellow, green

## Sole:

PU-PU –polyurethane + polyurethane  
PU-TPU–polyurethane + thermopolyurethane  
PU-R –polyurethane + nitrile rubber

## Models:

25-42 PU-PU Alpha – leather  
25-47 PU-PU Alpha – haircell

25-421 PU-PUAlpha–leather, steel toecap  
25-471PU-PUAlpha–haircell, steel toecap

## Sole:

PU-PU Alpha– double density polyurethane  
PU-TPU Alpha – polyurethane–thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46





**Models:**

22-02 PU-PU Alpha – natural leather  
22-05 PU-PU Alpha – leather, artificial fur

22-021 PU-PU Alpha – natural leather, steel toecap  
22-051 PU-PU Alpha – leather, artificial fur, steel toecap

**Sole:**

PU-PU Alpha – double density polyurethane  
PU-TPU Alpha – polyurethane-thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46



**Models:**

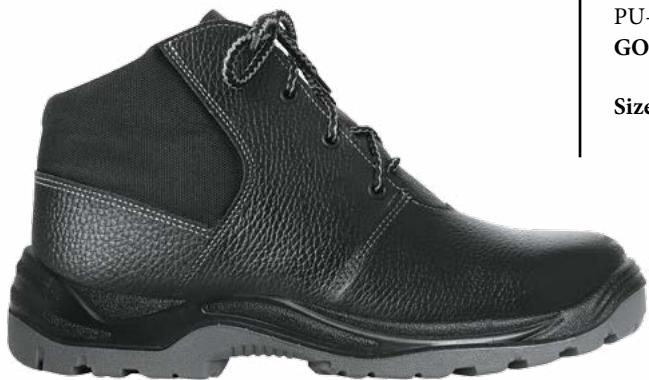
22-02 459 – natural leather  
22-05 459 – leather, artificial fur

22-021 459 – natural leather, steel toecap  
22-051 459 – leather, artificial fur, steel toecap

**Sole:**

459 – double density polyurethane  
PU-TPU Alpha – polyurethane-thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 39-47



# COMBINED LOW SHOES

**Model:** 25-12 PU-PU

**Sizes:** 40-46

Shoe type – training shoes

Shoe class – men

Upper – spilt suide, nubuck, cordura

Lining – tunica

Toecap – thermoplastic, steel (200 Joule)

Construction method – moulding

**GOST: 12.4.187-97, 28507-99  
12.4.137-2001**

**Model:** 25-12 PU-PU



**Model:** 25-22 PU-PU

**Sizes:** 40-46

Shoe type – training shoes

Shoe class – men

Upper – spilt suide, nubuck, cordura

Lining – tunica

Toecap – thermoplastic, steel (200 Joule)

Construction method – moulding

**GOST: 12.4.187-97, 28507-99  
12.4.137-2001**

**Model:** 25-22 PU-PU



Convenient and light lace-up shoes are made of natural leather. Comfortable design shoetree enables to work all day long feeling no fatigue and discomfort.

Light weight double density sole is resistant to effect of aggressive substances. Outsole layer is made of polyurethane, has absorbing properties and makes shoe light and comfortable. Base layer is made of wearproof polyurethane with improved resistance to side-slipping, deformation and abrasion.



**ЯХТИНГ**  
обувная фабрика

**Model: 25-12 PU-PU**



**Model: 25-22 PU-PU**





## LOW SHOES

Shoes are made of natural leather, have soft edge piping, backed up with natural lining, designed for works in closed heated space or in warm season, as well as for technical personnel.

**The following materials may be used:**  
Upper – natural leather, haircell print  
Lining– split lining leather, tunica cloth  
Toecap –thermoplastic, steel (200Joule)

TOP SELLER

**Models:**

5-02 PU-PU w – natural leather  
5-07 PU-PU w – haircell print  
5-021 PU-PU w – leather, steel toecap  
5-071 PU-PU w – haircell, steel toecap

**Sole:**

PU-PU – double density polyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 36-40



TOP SELLER

**Models:**

5-02 PU-PU Alpha – natural leather  
5-07 PU-PU Alpha – haircell print  
5-021 PU-PU Alpha – leather, steel toecap  
5-071 PU-PU Alpha – haircell, steel toecap

**Sole:**

PU-PU Alpha – double density polyurethane  
PU-TPU Alpha – polyurethane-thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46



**Models:**

25-02 PU-PU w- natural leather  
25-07 PU-PU w -haircell print  
25-021 PU-PU w - leather, steel toecap  
25-071 PU-PU w - haircell, steel toecap

**Sole:**

PU-PU - double density polyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 36-40

**Models:**

25-02 PU-PU Alpha- natural leather  
25-07 PU-PU Alpha -haircell print  
25-021 PU-PU Alpha - leather, steel toecap  
25-071 PU-PU Alpha - haircell, steel toecap

**Sole:**

PU-PU Alpha- double density polyurethane  
PU-TPU Alpha-polyurethane-thermopolyurethane  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46







**ЯХТИНГ**  
обувная фабрика



# LEATHER SANDALS

Model is cross functional in application, suitable for work in open air, indoors and leisure. Comfortable and easy in use. Sandal upper design provides footstep protection against external actions. While also on account of open areas in vamps and quarter as well as soft edge piping along upper edges of quarters, good ventilation, comfort in use are achieved. Anatomic shape insock.

**The following materials may be used:**

Upper – natural leather, haircell print

Lining– split lining leather or tunica cloth

Toecap – thermoplastic, steel (200 Joule).

Color of outsole layer – grey, upon agreement with customer, it may be changed into corporate color



**Models:**

5-32 PU-PU w – natural leather

5-37 PU-PU w – haircell print

5-321 PU-PU w – leather, steel toecap

5-371 PU-PU w – haircell, steel toecap

**Sole:**

PU-PU – double density polyurethane

GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 36-40



**Models:**

5-32 PU-PU Alpha– natural leather

5-37 PU-PU Alpha –haircell print

5-321 PU-PU Alpha – leather, steel toecap

5-371 PU-PU Alpha – haircell, steel toecap

**Sole:**

PU-PU Alpha– double density polyurethane

PU-TPU Alpha–polyurethane-thermopolyurethane

GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-46



# ASSAULT BOOTS

Combat boots with high quarters are recommended for security providers and versatile for other kinds of industry, they protect against general industrial pollution. The shoes are also suitable for every-day use.

Ful bellows tongue prevents penetration of foreign particles, soft edge piping facilitates shoe snug engagement to feet, guards foot rubbing, stiffener fixates a heel well. Envelop-type design of box toe (with riser in quarters) enables to use the shoes for people with various balls of feet.

## The following materials may be used:

Upper – natural leather, haircell print

Lining – artificial fur, natural fur, baize, wool, fur

Toecap – thermoplastic, steel (200 Joule).

Color of outsole layer – grey, upon agreement with customer, it may be changed into corporate color

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**



## Models:

3-02 PU-PU – natural leather

3-03 PU-PU – leather, wool, fur

3-05 PU-PU – leather, artificial fur

3-06 PU-PU – leather, natural fur

3-07 PU-PU – haircell print

3-08 PU-PU – haircell, artificial fur

3-09 PU-PU – haircell, natural fur

3-021 PU-PU – natural leather, steel toecap

3-031 PU-PU – leather, wool, fur, steel toecap

3-051 PU-PU – leather, artificial fur, steel toecap

3-061 PU-PU – leather, natural fur, steel toecap

3-071 PU-PU – haircell print, steel toecap

3-081 PU-PU – haircell, artificial fur, steel toecap

3-091 PU-PU – haircell, natural fur, steel toecap

## Sole:

**PU-PU - double density polyurethane**

**PU-TPU: polyurethane-thermopolyurethane**

**Size run: 40-47**



**TOP SELLER**



**ЯХТИНГ**  
обувная фабрика



# HIGH BOOTS OF 28 CM

Boot-top is adjusted across the width by buckle

**The following materials may be used:**

Vamp – natural leather

Boot-top – artificial leather, natural leather

Heat insulator – artificial fur, natural fur, baize, wool

Toecap – thermoplastic, steel (200 Joule).

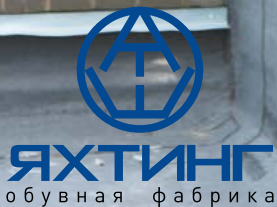
Color of outsole layer – grey, black, upon agreement with customer, it may be chaged into requested color

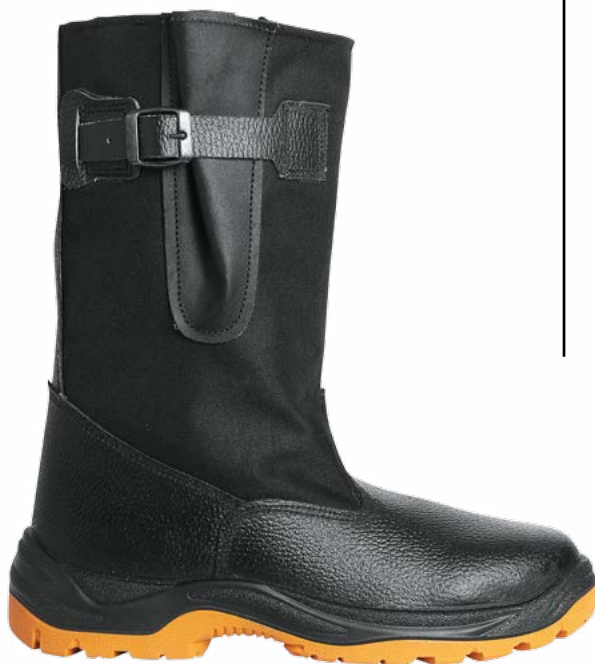
**Sole:**

PU-PU – polyurethane + polyurethane

PU-TPU – polyurethane + thermopolyurethane

PU-R – polyurethane + nitrile rubber





**Models:**

- 11-31 459 – natural leather-cordura
- 11-34 459-leather-cordura, artificial fur
- 11-311 459 – leather-cordura, steel toecap
- 11-341 459 – leather-cordura, artificial fur, steel toecap

**Sole:**

- 459 – double density polyurethane
- PU-TPU – polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 39-47**



**Models:**

- 1-21 PU-PU w – nat. leather-art. leather
- 1-22 PU-PU w- natural leather
- 1-23 PU-PU w – nat. leather, wool, fur
- 1-24 PU-PU w- nat. leather-art. leather, artificial fur
- 1-25 PU-PU w – nat. leather, artificial fur
- 1-26 PU-PU w- leather, natural fur
- 1-211 PU-PU w- nat. leather-art. leather, steel toecap
- 1-221 PU-PU w- natural leather, steel toecap
- 1-231 PU-PU w- leather, woolen fur, steel toecap
- 1-241 PU-PU w – nat. leather-art. leather, fur, steel toecap
- 1-251 PU-PU w – leather, artificial fur, steel toecap
- 1-261 PU-PU w – natural leather, fur, steel toecap

**Sole:**

- PU-PU – double density polyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 36-40**





**Models:**

- 1-21 PU-PU – nat. leather-art. leather
- 1-22 PU-PU - natural leather
- 1-23 PU-PU – leather, woolen fur
- 1-24PU-PU–nat.leather-art. leather,fur
- 1-25 PU-PU – leather, artificial fur
- 1-26 PU-PU – leather, natural fur
  
- 1-211 PU-PU – nat. leather-art. leather, steel toecap
- 1-221 PU-PU - natural leather, steel toecap
- 1-231 PU-PU – leather, woolen fur, steel toecap
- 1-241 PU-PU – nat. leather-art. leather, fur, steel toecap
- 1-251 PU-PU – leather, artificial fur, steel toecap
- 1-261 PU-PU – natural leather, fur, steel toecap

**Sole:**

- PU-PU –double density polyurethane
- PU-TPU– polyurethane +thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**
- Size run: 40-47**



**TOP SELLER**



**Models:**

- 1-31 PU-PU – nat. leather-art. leather
- 1-32 PU-PU - natural leather
- 1-33 PU-PU – leather, woolen fur
- 1-34PU-PU–nat.leather-art. leather,fur
- 1-35 PU-PU – leather, artificial fur
- 1-36 PU-PU – leather, natural fur
  
- 1-311 PU-PU – nat. leather-art. leather, steel toecap
- 1-321 PU-PU - natural leather, steel toecap
- 1-331 PU-PU – leather, woolen fur, steel toecap
- 1-341 PU-PU – nat. leather-art. leather, fur, steel toecap
- 1-351 PU-PU – leather, artificial fur, steel toecap
- 1-361 PU-PU – natural leather, fur, steel toecap

**Sole:**

- PU-PU –polyurethane + polyurethane
- PU-TPU– polyurethane +thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**
- Size run: 40-47**







**Модели:**

- 1-31 PU-PU Alpha – nat. leather-art. leather
- 1-32 PU-PU Alpha – natural leather
- 1-33 PU- PU Alpha – nat. leather-art. leather, woolen fur
- 1-34 PU-PU Alpha – nat. leather-art. leather, fur
- 1-35 PU-PU Alpha – nat. leather, artificial fur
- 1-311 PU-PU Alpha – nat. leather-art. leather, steel toecap
- 1-321 PU-PU Alpha – natural leather, steel toecap
- 1-331 PU-PU Alpha – leather, woolen fur, steel toecap
- 1-341 PU-PU Alpha – nat. leather-art. leather, fur, steel toecap
- 1-351 PU-PU Alpha – natural leather, fur, steel toecap

**Sole:**

- PU-PU Alpha – double density polyurethane
- PU-TPU Alpha – polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 40-46**



**Models:**

- 1-31 459 – nat. leather-art. leather
- 1-32 459 – natural leather
- 1-33 459 – leather, woolen fur
- 1-34459–nat. leather-art. leather,fur
- 1-35 459 – leather, artificial fur
- 1-36 459 – leather, natural fur
  
- 1-311 459 – nat. leather-art. leather, steel toecap
- 1-321 459 – natural leather, steel toecap
- 1-331 459 – leather, woolen fur, steel toecap
- 1-341 459 – nat. leather-art. leather, fur, steel toecap
- 1-351 459 – leather, artificial fur, steel toecap
- 1-361 459 – natural leather, fur, steel toecap

**Sole:**

- 459 – double density polyurethane
- PU-TPU – polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99**
- Size run: 39-47**





**? aWw**

- 11-31 BG-BG UqX `Sfgd^WZWLadVgdS
- 11-33 BGZBG UqX `Sfgd^WZWL i aa^WXd
- 11-34 BGZBG UqX `Sfgd^WZWLadVgdS, SFXUS^Xd
- 11-311 PU-PU cuff- natural leather-codura, steel toecap
- 11-331 PU-PU cuff- natural leather-codura, woolen fur, steel toecap
- 11-341 PU-PU cuff- natural leather-codura, art.al fur steel toecap

**Sole:**

- PU-PU – double density polyurethane
- PU-TPU –polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-47



**Model:**

- 1-72 PU-PU cuff - natural leather
- 1-72 d PU-PU cuff - natural leather, backed up with tunica
- 1-73 PU-PU cuff - natural leather, woolen fur
- 1-75 PU-PU cuff – natural leather, artificial fur
- 1-721 PU-PU cuff – natural leather, steel toecap
- 1-721 d PU-PU cuff - natural leather, backed up with tunica, steel toecap
- 1-731 PU-PU cuff - natural leather, woolen fur , steel toecap
- 1-751 PU-PU cuff – natural leather, artificial fur, steel toecap

**Sole:**

- PU-PU – double density polyurethane
- PU-TPU –polyurethane-thermopolyurethane
- GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 40-47



# SHORTENED HIGH BOOTS OF 24 CM

Side loops for easy put-on are located on boot-top. Protective watertight cuffs are provided in winterized high boots.

## The following materials may be used:

Vamp – natural leather

Boot-top – natural leather

Lining – cloth tunica, artificial fur, natural fur, baize, woolen fur

Toecap – thermoplastic, steel (200 Joule).

Color of outsole layer – grey, black, upon agreement with customer, it may be chaged into requested color

## Sole:

PU-PU – polyurethane + polyurethane

PU-TPU –polyurethane +thermopolyurethane

PU-R – polyurethane + nitrile rubber

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

## Модели:

1-72 PU-PU - natural leather

1-72 d PU-PU – leather, backed up with tunica

1-73 PU-PU – natural leather, woolen fur

1-75 PU-PU – natural leather, artificial fur

1-721 ПУ-ПУ – юфть, steel toecap

1-721 d PU-PU – leather, backed up with tunica, steel toecap

1-731 PU-PU – leather, woolen fur, steel toecap

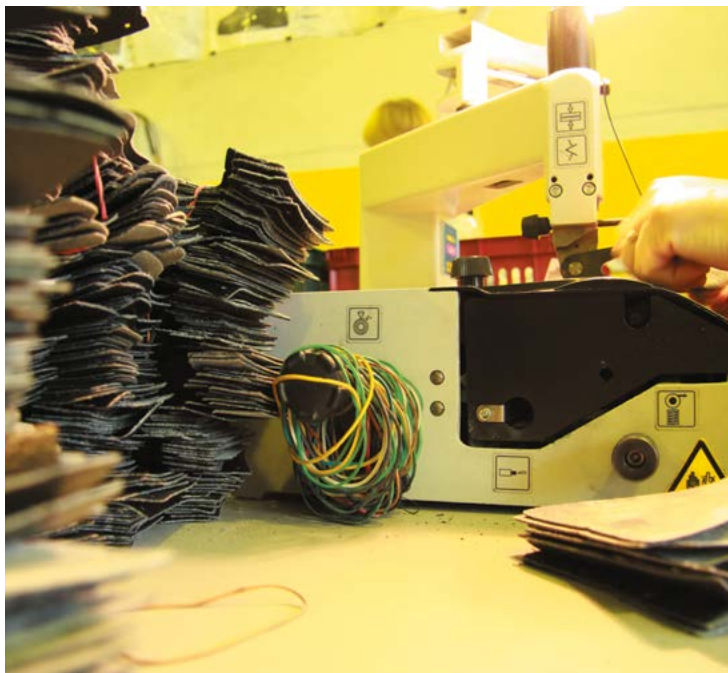
1-751 PU-PU – leather, artificial fur, steel toecap

## Sole:

PU-PU – double density polyurethane

PU-TPU –polyurethane-thermopolyurethane

**Size run: 40-47**



# HIGH BOOTS OF 32 CM

Boot-top is adjusted across the width by two buckles with clasps.

**The following materials may be used:**

Vamp – natural leather

Boot-top – artificial leather, natural leather

Heat insulator – artificial, natural fur, baize, woolen fur

Toecap – thermoplastic, steel (200 Joule).

Color of outsole layer – grey, black, upon agreement with customer, it may be changed into requested color.

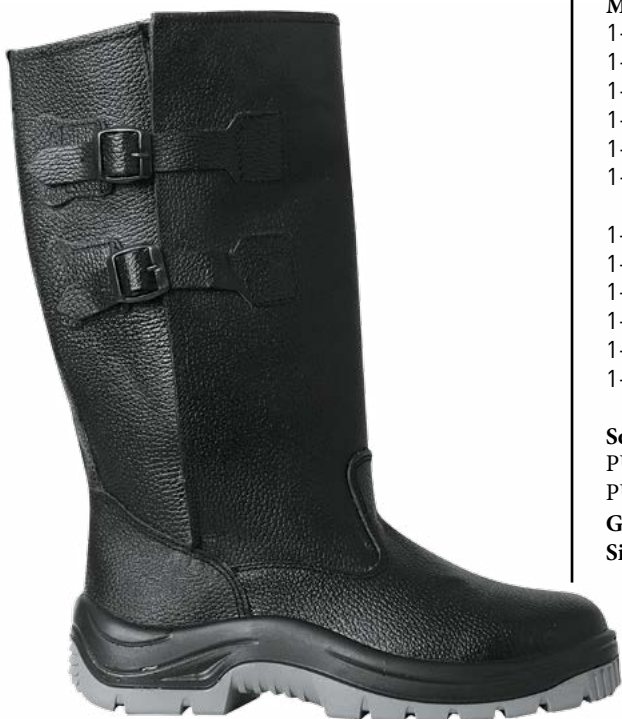
**Sole:**

PU-PU – polyurethane + polyurethane

PU-TPU – polyurethane + thermopolyurethane

PU-R – polyurethane + nitrile rubber



**Models:**

- 1-11 PU-PU – nat.leather-art.leather
- 1-12 PU-PU – natural leather
- 1-13 PU-PU – leather, woolen fur
- 1-14 PU-PU – nat.leather-art.leather,fur
- 1-15 PU-PU– leather, artificial fur
- 1-16 PU-PU– leather, natural fur

- 1-111 PU-PU – nat.leather-art.leather, steel toecap
- 1-121 PU-PU – natural leather, steel toecap
- 1-131 PU-PU – leather, woolen fur , steel toecap
- 1-141 PU-PU – nat.leather-art.leather, fur, steel toecap
- 1-151 PU-PU– leather, artificial fur, steel toecap
- 1-161 PU-PU– leather, natural fur, steel toecap

**Sole:**

PU-PU – double density polyurethane

PU-TPUapolyurethane-thermopolyurethane

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 40-47**

**Models:**

- 11-11 459 – nat.leather-art.leather
- 11-12 459 – natural leather
- 11-13 459 – leather, woolen fur
- 11-14 459–nat.leather-art.leather,fur
- 11-15 459 – leather, artificial fur
- 11-16 459 – leather, natural fur

- 11-111 459 – nat.leather-art.leather, steel toecap
- 11-121 459 – natural leather, steel toecap
- 11-131 459 – leather, woolen fur , steel toecap
- 11-141 459 – nat.leather-art.leather,fur, steel toecap
- 11-151 459 – leather, artificial fur, steel toecap
- 11-161 459 – leather, natural fur, steel toecap

**Sole:**

459 – double density polyurethane

PU-TPU-polyurethane-thermopolyurethane

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 40-47**



# BOOTS "NORTH"

Boots are specially designed for work in open air in wintertime, they may be used in oil and gas producing industry, transport business, urban services and many other fields of industry. They are designed for protection against low temperatures up to  $-40^{\circ}\text{C}$ . Unique feature is adjustable boot-top with buckles sideways and lace with retention pin on top.

## The following materials may be used:

Vamp and stiffener – natural leather

Boot-top – oil, petrol resistant, no frost-susceptible material «Cordura®»

Multi-layered lining – aluminum foil with biaxially oriented polypropylene, heat insulating material «The insulate® B-400» and woolen fur.

Insock – felt

## Sole:

PU-PU – polyurethane + polyurethane

PU-TPU – polyurethane + thermopolyurethane

PU-R – polyurethane + nitrile rubber

Manufacture of these high boots with steel toecap and anti-puncture insole is possible.

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Models:** Northern high boots

## Sole:

PU-PU – double density polyurethane

PU-TPU – polyurethane-thermopolyurethane

**Size run: 40-47**





**ЯХТИНГ**  
обувная фабрика





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обувная фабрика

# SINGLE DENSITY PU

Shoes manufactured by construction method with direct press single density polyurethane injection are made of natural and combined leathers.

**Polyurethane (PU)** is porosity polymeric material, with high mechanical strength and light weight. Foamed polyurethane resin has perfect thermal protection (from  $-10$  up to  $+100^{\circ}\text{C}$ ), which makes sole soft, pliant with excellent absorbing properties, besides this material is damp-proof, resistant to oil products, acid alkali solutions, abrasion, flexing life.

Single density polyurethane sole for work shoes has perfect strength features, resistant to abrasion, flexing life with lower material density. It is perfectly constructed to a leather upper.







# BOOTS

Unique boots for work in production branch, open air and indoors. They protect against mechanical impacts and factory accidents.

**The following materials may be used:**

Upper – natural leather

Heat insulator – artificial fur, woolen fur

Toecap – thermoplastic, steel [200 Joule].

**GOST 12.4.137-2001, 12.4.187-97, 28507-99**

**Модели:**

2-12 PU injected heel – natural leather

2-15 PU injected heel – natural leather, artificial fur

2-121 PU injected heel – natural leather, steel toecap

2-151 PU injected heel – leather, artificial fur, steel toecap

**Sole**

PU heel injected- single density

**Size run: 39-47**



**TOP SELLER**



**Models:**

- 5-52 PU pine – natural leather
- 5-53 PU pine – leather, woolen fur
- 5-55 PU pine – leather, artificial fur
- 5-57 PU pine – haircell print
- 5-58 PU pine – haircell, artificial fur

- 5-521 PU pine – natural leather, steel toecap
- 5-531 PU pine – leather, woolen fur, steel toecap
- 5-551 PU pine – leather, artificial fur, steel toecap
- 5-571 PU pine – haircell print, steel toecap
- 5-581 PU pine – haircell, artificial fur, steel toecap

**Sole:**

PU pine - single density, fashion 563  
**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 35-46**



**Models:**

- 5-62 PU pine – natural leather
- 5-63 PU pine – leather, woolen fur
- 5-65 PU pine – leather, artificial fur
- 5-67 PU pine – haircell print
- 5-68 PU pine – haircell, artificial fur

- 5-621 PU pine – natural leather
- 5-631 PU pine – leather, woolen fur
- 5-651 PU pine – leather, artificial fur
- 5-671 PU pine – haircell print
- 5-681 PU pine – haircell, artificial fur

**Sole:**

PU pine - single density, fashion 563  
**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 35-46**





**ЯХТИНГ**  
обувная фабрика



# LEATHER LOW SHOES

Low shoes are made of natural leather with lacing. Comfortable shoes with polyurethane injection "pine" soles is designed for works in closed heated rooms and in warm seasons.

TOP SELLER



## Models:

5-02 PU pine – natural leather  
5-07 PU pine– haircell print  
5-021 PU pine– leather, steel toecap  
5-071 PU pine – haircell, steel toecap

## Sole:

PU pine - single density polyurethane, fashion 563  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 35-46



## Models:

25-02 PU pine – natural leather  
25-07 PU pine– haircell print  
25-021 PU pine– leather, steel toecap  
25-071 PU pine – haircell, steel toecap

## Sole:

PU pine - single density polyurethane, fashion 563  
GOST: 12.4.137-2001, 12.4.187-97, 28507-99

Size run: 335-40



# LEATHER SANDALS

Unique usage model is suited for works in open air, indoors and leisure. Comfortable and easy in wear. Sandals upper design provides protection against external actions. While also on account of open areas in vamps and quarters as well as soft edge piping along upper edges of quarters, good ventilation, comfort in use are achieved. Anatomic shape insock.

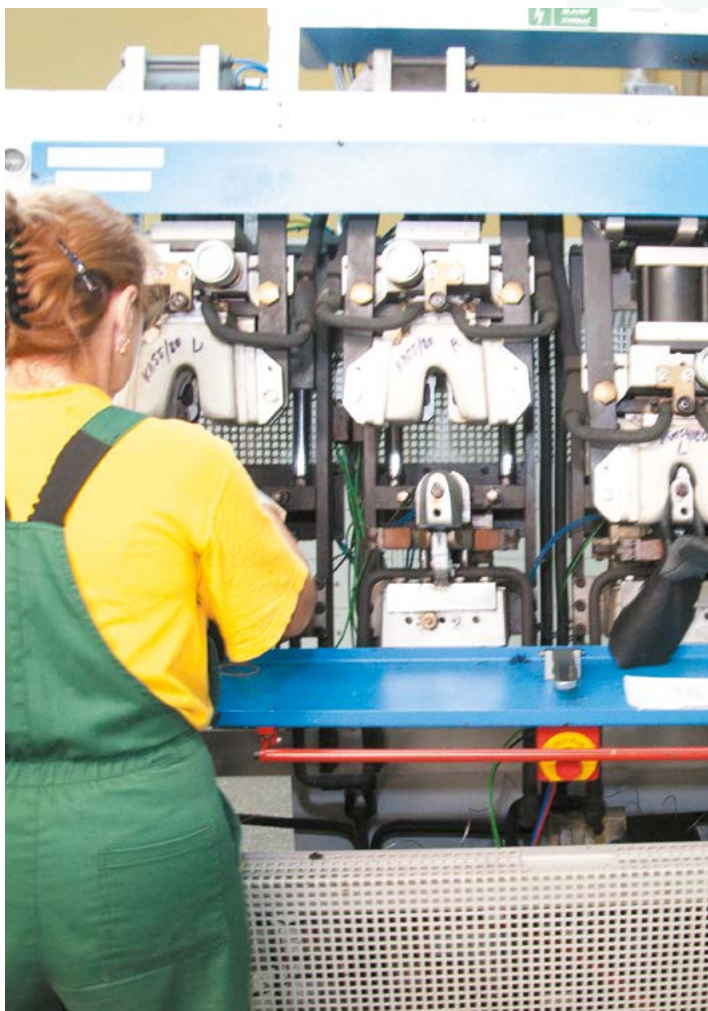
**The following materials may be used:**  
Upper – natural leather, haircell print  
Lining – split leather lining  
Toecap – thermoplastic, steel (200 Joule).

**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Models:**  
5-32 PU pine – natural leather  
5-37 PU pine – haircell print  
5-321 PU pine – leather, steel toecap  
5-371 PU pine – haircell, steel toecap

**Sole:**  
PU pine - single density polyurethane, fashion 563

**Size run: 35-46**



**TOP SELLER**



## ASSAULT BOOTS

Unique boots with high quarters are recommended for various kinds of industry, they protect against general industrial pollution. The shoes are also suitable for every-day use.

Ful bellows tongue prevents penetration of foreign particles, soft edge piping facilitates shoe snug engagement to feet, guards foot rubbing, stiffener fixates a heel well.

**The following materials may be used:**

Upper – natural leather, haircell print  
Heat insulator – artificial fur, woolen fur  
Toecap – thermoplastic, steel (200 Joule).



**Models:**

- 3-02 PU pine – natural leather
- 3-07 PU pine– haircell print
- 3-03 PU pine – юфть, woolen fur
- 3-05 PU pine – leather, artificial fur
- 3-08 PU pine– haircell, artificial fur

**Sole:**

PU pine - single density polyurethane, fashion 563

**GOST: 12.4.137-84, 12.4.187-97**

**Size run: 35-40**



**Models:**

- 3-02 PU injected heel – natural leather
- 3-03 PU injected heel– natural leather, woolen fur
- 3-05 PU injected heel – natural leather, artificial fur
- 3-021 PU injected heel – natural leather, steel toecap
- 3-031 PU injected heel– leather, woolen fur, steel toecap
- 3-051 PU injected heel – leather, artificial fur, steel toecap

**Sole:**

PU injected heel- single density polyurethane

**GOST: 12.4.137-84, 12.4.187-97**

**Size run: 39-47**



# HIGH BOOTS OF 28 CM

Boot-top is adjusted across the width by buckle

**The following materials may be used:**

Vamp – natural leather

Boot-top – artificial leather, natural leather

Heat insulator – artificial, natural fur, baize, woolen fur

Toecap – thermoplastic, steel (200 Joule).

**Models:**

1-21 PU pine – nat. leather-art. leather

1-22 PU pine – natural leather

**Sole:**

PU pine - single density polyurethane, fashion 563

**GOST: 12.4.137-2001, 12.4.187-97**

**Size run: 35-46**







**Модели:**

- 1-21 PU injected heel – nat. leather-art. leather
- 1-22 PU injected heel – natural leather
- 1-23 PU injected heel – natural leather, woolen fur
- 1-24 PU injected heel – nat. leather-art. leather, artificial fur
- 1-25 PU injected heel – natural leather, artificial fur

- 1-211 PU injected heel – nat. leather-art. leather, steel toecap
- 1-221 PU injected heel – natural leather, steel toecap
- 1-231 PU injected heel – natural leather, woolen fur, steel toecap
- 1-241 PU injected heel – nat. leather-art. leather, fur, steel toecap
- 1-251 PU injected heel – natural leather, artificial fur, steel toecap

**Sole:**

PU injected heel- single density polyurethane  
**GOST: 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 39-47**



**TOP SELLER**

**Модели:**

- 1-31 PU injected heel – nat. leather-art. leather
- 1-32 PU injected heel – natural leather
- 1-33 PU injected heel – natural leather, woolen fur
- 1-34 PU injected heel – nat. leather-art. leather, fur
- 1-35 PU injected heel – natural leather, artificial fur

- 1-311 PU injected heel – nat. leather-art. leather, steel toecap
- 1-321 PU injected heel – natural leather, steel toecap
- 1-331 PU injected heel – natural leather, woolen fur, steel toecap
- 1-341 PU injected heel – nat. leather-art. leather, fur, steel toecap
- 1-351 PU injected heel – natural leather, artificial fur, steel toecap

**Sole:**

PU injected heel- single density polyurethane  
**GOST 12.4.137-2001, 12.4.187-97, 28507-99**

**Size run: 39-47**



# WORK HIGH BOOTS of 32 cm

Boot-top is adjusted across the width by buckle with clasp.  
2 buckles are provided in high boots with 32 cm height.

## The following materials may be used:

Vamp – natural leather

Boot-top – artificial leather, natural leather

Heat insulator – artificial, natural fur, baize, woolen fur

Toecap – thermoplastic, steel (nj) Joule)

**GOST 12.4.137-2001, 12.4.187-97, 28507-99**

## Models:

- 1-11 PU injected heel – nat. leather-art. leather
- 1-12 PU injected heel – natural leather
- 1-13 PU injected heel – natural leather, woolen fur
- 1-14 PU injected heel – nat. leather-art. leather, fur
- 1-15 PU injected heel – natural leather, artificial fur

## Models:

- 1-111 PU injected heel – nat. leather-art. leather, steel toecap
- 1-121 PU injected heel – leather, steel toecap
- 1-131 PU injected heel – leather, woolen fur, steel toecap
- 1-141 PU injected heel – leather-art. leather, fur, steel toecap
- 1-151 PU injected heel – leather, artificial fur, steel toecap

## Sole:

PU injected heel- single density polyurethane

**Size run: 39-47**





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