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#### **GUARANTEE OF PERFECTION!**

What you should to do is to create a great product or service with the goal of changing the world.

Guy Kawasaki

GROSS trademark was first presented to the public in 2008 at the International Conference of Hand Tool Manufacturers in Germany.

From the very beginning the developers at GROSS have made every effort to achieve the highest possible quality of hand tools. As a result our line turned out to be popular among both common users and professionals.

Then the manufacturer set out to use the latest achievements of tool industry, which enabled it to create something greater than just a good tool.



# **ABIILITY TO SURPRISE**

A good idea consists of a lot of small ideas. Thomas Alva Edison

The main objective of GROSS is to create tools able to surprise users with their efficiency, reliability and design aesthetics. Quality materials, mechanisms facilitating the work, ergonomic design: everything is harmoniously combined in the modern GROSS hand tools.



#### **GROSS DEVELOPMENT TEAM**

It doesn't make sense to hire smart people and then tell them what to do. We hire smart people so they can tell us what to do

Steve Jobs

GROSS development team consists of several units: engineering department, quality control department, design studio and consumers.

# **Quality of GROSS**

Quality of GROSS directly depends on the raw materials selected, taking into account the use of tools. Raw material processing and manufacturing of tools is performed on the up-to-date equipment. Before final assembly, the quality of each part is checked. Part of goods from each batch is tested under increased loads. Only after the successful passing of all tests, GROSS tools go on sale.

## **GROSS Laboratory**

Today GROSS laboratory has its own R&D base and is a test site for the development and testing of new tools. Engineers and designers perform an expert evaluation of the tools and develop new models with improved technological properties. Each invention of GROSS is registered at the patent office.

#### **New GROSS Tools**

Each new tool passes a few development stages:

- analysis of materials and testing of mechanisms;
- project development: design improvement;
- design development;
- preparation of control sample;
- testing under extreme loads;
- trading commission;
- production and sale;
- customer feedback analysis.

# **GROSS range of goods**

The wide GROSS product line makes it possible to select tools, perfectly meeting assigned tasks. Hammers, carving chisels, wood hacksaws, wrenches, cold chisels, center punches, screwdrivers, tin snips, staplers, riveters, tape measures: the list of GROSS products is much longer.

# **GROSS Design Studio**

Unique design is another achievement of GROSS. The developers aspired to create tools which are not only effective, but also with which it is pleasant to work. Design and quality of packaging also play an important role.

#### **Consumers**

Useful ideas can be received from people who use hand tools. Their feedback helps to understand in which direction it is necessary to move when developing new models.





#### **GROSS IN THE GLOBAL MARKET**

If you want to succeed in the world, you don't have to be much cleverer than other people. You just have to be one day earlier.

Leo Szilard

Initially GROSS products were intended for sale in Germany and other countries of Western Europe. Today GROSS TM is on the market not only of Western Europe, but also of Southeastern and Eastern Europe, as well as in countries of Latin America.

TOOLS WORLD company is an official representative of GROSS.

#### **CRAFTSMANSHIP**

By far the best proof is experience.

Francis Bacon

First of all, GROSS is the tool for professionals, consumers who need a large safety factor, operability of equipment and high quality of work performed.

Due to ease of use, GROSS tools are so widely popular among DIY-users.



## Machinist's hammer with square peen

10278

10279

800 g

1000 q



 10273
 300 g

 10274
 400 g

 10276
 500 g

 10277
 600 g

Material of working part: C45
Peen hardness: 50-56 HRc
Fiberglass rubber-coated handle

#### Intended for mechanical work.

- Selective hardening of head increases its strength and prevents from edge crushing and chipping.
- Fiberglass handle with a soft rubber pad damps vibration, coming from hammer strikes.
- Material of working part: C45, peen hardness: 50-56 HRc.

#### Material Peen hardness, HRc Handle Small pack, pcs Big pack, pcs C45 fiberglass rubber-coated 48 10273 300 50-56 48 C45 fiberglass rubber-coated 10274 400 50-56 6 36 C45 fiberglass rubber-coated 36 36 10276 500 50-56 10277 600 C45 50-56 fiberglass rubber-coated 36 36 C45 fiberglass rubber-coated 24 10278 800 50-56 10279 1000 C45 50-56 fiberglass rubber-coated 24

## Solid-forged machinist's hammer









10400	300 g
10402	500 a



Material of working part: C55 Peen hardness: 50-56 HRc HRc Tip hardness: 44-50 HRc Body hardness: 24-28 HRc

Three-component ergonomic handle

#### Intended for mechanical work.

- Selective hardening of head increases its strength, ensures optimal flexibility and prevents it from edge crushing and chipping.
- Three-component ergonomic handle perfectly damps vibration, coming from hammer strikes.
- Lightweight. Equipped with «cheeks» on hammerhead and thinner metal handle in its middle part. Such balancing ensures high performance in work.
- Material of working part: C55 steel, peen hardness: 50-56 HRc, tip hardness: 44-50 HRc, body hardness: 24-28 HRc.

Item	Weight, g	Material	Peen hardness, HRc	Handle	Small pack, pcs	Big pack, pcs
10400	300	C55	50-56	three-component	6	36
10402	500	C55	50-56	three-component	6	24

## Solid-forged claw-hammer













Material of working part: C55 Peen hardness: 50-56 HRc Tip hardness: 44-50 HRc Body hardness: 24-28 HRc

Three-component ergonomic handle

## Claw-hammer









10475	450 g
10476	570 a



Material of working part: C55 Peen hardness: 50-55 HRc Tip hardness: 44-52 HRc Body hardness: 24-28 HRc Three-component fiberglass handle

Intended for mechanical work, woodwork and for dismounting building structures.

- Selective hardening of head increases its strength, ensures optimal flexibility and prevents from edge crushing and chipping.
- Three-component ergonomic handle perfectly damps vibration, coming from hammer strikes.
- Lightweight. Equipped with «cheeks» on hammerhead and thinner metal handle in its middle part. Such balancing ensures high performance in work.
- Material of working part: C55, peen hardness: 50-56 HRc, tip hardness: 44-50 HRc, body hardness: 24-28 HRc.

# Intended for mechanical work, woodwork and for dismounting building structures.

- Selective hardening of head increases its strength, ensures optimal flexibility and prevents from edge crushing and chipping.
- Strong fiberglass handle of special shape and finish provides firm grip.
- High manufacturing quality, perfect balancing of working and auxiliary parts.
- Material of working part: C55 steel, peen hardness: 50-55 HRc, tip hardness: 44-52 HRc,
- · body hardness: 24-28 HRc.

Item	Weight, g	Material	Peen hardness, HRc	Handle	Small pack, pcs	Big pack, pcs
10469	450	C55	50-55	three-component	6	24
10470	570	C55	50-55	three-component	6	24

ltem	Weight, g	Material	Peen hardness, HRc	Handle	Small pack, pcs	Big pack,pcs
10475	450	C55	50-55	fiberglass three-component	6	36
10476	570	C55	50-55	fiberglass three-component	6	24





## Screwdriver





#### Material: S2 Hardness of working part: 47-52 HRc Three-component ergonomic handle

# Intended for mounting/dismounting of threaded ioints.

- Notches on the tip increase friction between screwdriver and drive blade, eliminating the risk of damaging the tip.
- Special design of the three-component handle reduces wrist stress and injury risk.
- Small effort is required to achieve maximum torque
- Core material is S2 steel, matte chrome-plated finish.
- Hardness of working part: 47-52 HRc.
- · Complies with DIN, ISO and ANSI Standart.
- Patented.
- · Packaging: plastic hanging card.

ltem	Size, mm	Core material	Hardness, HRc	Small pack, pcs	Big pack, pcs
12101	SL 3 × 75	S2	47-52	12	120
12105	$SL4 \times 100$	S2	47-52	12	120
12110	SL 5,5 × 100	S2	47-52	12	120
12112	$SL5,5 \times 150$	S2	47-52	12	120
12116	SL6,5 × 100	S2	47-52	12	120
12117	$SL6,5 \times 150$	S2	47-52	12	120
12119	SL 8 × 150	S2	47-52	12	60
12123	$SL8 \times 200$	S2	47-52	12	60
12131	PH 0 × 75	S2	47-52	12	120
12140	PH 1 × 100	S2	47-52	12	120
12142	PH 1 × 150	S2	47-52	12	120
12144	PH $2 \times 100$	S2	47-52	12	120
12145	PH 2 × 150	S2	47-52	12	120
12149	PH $3 \times 150$	S2	47-52	12	60
12155	PZ 0 × 75	S2	47-52	12	120
12156	PZ 1×75	S2	47-52	12	120
12159	PZ 2 × 100	S2	47-52	12	120
12163	PZ 3 × 150	S2	47-52	12	60

## **Screwdriver set**







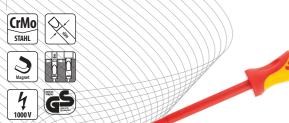
#### Core material: S2 Hardness of working part: 47-52 HRc Three-component ergonomic handle

- Intended for mounting/dismounting of threaded joints.
- Notches on the tip increase friction between screwdriver and drive blade, eliminating the risk of damaging the tip.
- Special design of the three-component handle reduces wrist stress and injury risk.
- Small effort is required to achieve maximum torque.
- Core material is S2 steel, matte chrome-plated finish.
- Hardness of working part: 47-52 HRc.
- Complies with DIN, ISO and ANSI Standart.
- Patented.
- Packaging: cardboard box.

ltem	Size, mm	Core material	Hardness, HRc	Complete set, pcs	Small pack, pcs	Big pack, pcs
12164	SL 3 × 75 SL 5,5 × 100 SL 6,5 × 150 PH 0 × 75 PH 1 × 100 PH 2 × 100	S2	47-52	6	1	20
12165	SL 3×75 SL 4×100 SL 4×150	S2	47-52	3	10	20
12166	PH 0 × 75 PH 1 × 100 PH 2 × 150	S2	47-52	3	10	20
12167	SL 6,5 × 100 PH 0 × 75 PH 2 × 100	S2	47-52	3	1	20
12168	SL 5,5 × 100 PH 2 × 100	S2	47-52	2	10	20



# Dielectric screwdriver





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12941	SL3	12946	PH0
12942	SL4	12947	PH1
12943	SL5	12948	PH2
12944	SL6.5	12949	PH3
12945	SL8		





Material: CrV Up to 1000V Two-component handle Working part hardness: 51-56 HRc

31

Intended for mounting/ dismounting constructions details and elements charged with electricity up to 1000V.

- Equipped with dielectric handle and shank with insulated cover.
- Complies with German quality standard and GS
   and VDE certified.
- $\bullet \quad \textit{Slim tip allows to work in hard-to-reach place}.$
- High quality chrome-molybdenum steel provides long-term durability.
- Working part Hardness: 51-56 HRc.
- · Package: hanging plastic card.

ltem	Size, mm	Shaft material	Hardness, HRc	Small pack, pcs	Big pack, pcs
12941	SL3×75	CrMo	51-56	12	144
12942	$SL4 \times 100$	CrMo	51-56	12	144
12943	SL 5,5 × 120	CrMo	51-56	12	144
12944	$SL 6,5 \times 150$	CrMo	51-56	12	144
12945	SL 8 × 150	CrMo	51-56	12	144
12946	PH $0 \times 75$	CrMo	51-56	12	144
12947	PH 1 × 80	CrMo	51-56	12	144
12948	PH 2 × 100	CrMo	51-56	12	144
12949	PH 3 × 150	CrMo	51-56	12	144

# Dielectric screwdriver set

















Material: CrMo Two-component handle Up to 1000V Voltage tester

Working part hardness: 51-56 HRc









Intended for mounting/ dismounting constructional details and elements charged with electricity up to 1000V.

- Equipped with dielectric handle and shank with insulated cover.
- Complies with German quality standard and GS and VDE certified.
- $\bullet \quad \textit{Slim tip allows to work in hard-to-reach place}.$
- High quality chrome-molybdenum steel provides long-term durability.
- Working part hardness: 51-56 HRc.
- · Package: carton box with hanging hook.

ltem	Configuration	Shaft material	Hard- ness, HRc	Small pack, pcs	Big pack, pcs
12950	screwdrivers: SL3×75, SL5.5×125, SL6.5×150, SL8×150, PH0×75, PH1×80, PH2×100, voltage tester	CrMo	51–56	1	12



**11455** 25 mm

**11456** 50 mm









Material: S2 Working part hardness: 54-58 HRc

#### Intended for mounting/dismounting of drywall screws to plasterboard.

- · Stopper (limiter) allows to prevent from damaging of surface.
- Holder with spring and magnet provides reliable fixation of fastener.
- Material: S2 steel.
- · Working part hardness: 54-58 HRc.
- · Package: sandwich.

### Bit set



11262	70 mm
11263	90 mm
11201	70 mm
11202	127 mm
11203	150 mm







#### Intended for using as replaceable attachments for manual and mechanical hand tools.

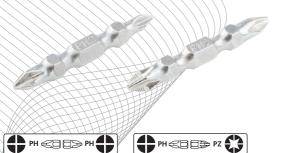
- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- Material: S2 steel, working part hardness 54-58 HRc.
- Color ring with logo for counterfeit protection.
- Nickel plating.
- Package: blister card.

ltem	Sizes, mm	Material	Hardness, HRc	Small package, pcs	Big package, pcs
11455	PH 2 × 25	S2	54-58	10	60
11456	PH 2 × 50	S2	54-58	10	60

ltem	Sizes, mm	Material	Hardness, HRc	Complete set, pcs	Small package, pcs	Big package, pcs
11262	PH 2 × 70	S2	54-58	10	1	50
11263	PH $2 \times 90$	S2	54-58	10	1	50
11201	PZ 2 × 70	S2	54-58	10	1	50
11202	PH $2 \times 127$	S2	54-58	5	1	50
11203	PH 2 × 150	S2	54-58	5	1	50



# Bit set







Bit set







11329

11330

11331

11339



PZ 2

PZ3

PH 1

PH 2

11340

11341

11349

11351

**11209** PH 2 – PH 2 11211 PH 2 - PH 1 **11217** PH 2 – PZ 2 Material: S2 Working part hardness: 54-58 HRc







Intended for using as replaceable attachments for manual and mechanical hand tools.

- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- Material: \$2 steel, working part hardness 54-58 HRC.

· Nickel plating.

· Package: blister card.

# for manual and mechanical hand tools.

PH<sub>1</sub>

PH 2

PH 3

PZ 1

58-62 HRc.

Material: S2

Working part hardness: 58-62 HRc





- Intended for using as replaceable attachments
- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- · Material: S2 steel, working part hardness
- · Color ring with logo for counterfeit protection.
- Nickel plating.
- Package: blister card.

1			.111					
/	ltem	Sizes, mm	Material	Hardness, HRc	Complete set, pcs	Small package, pcs	Big package, pcs	
/	11209	PH 2 × 70	S2	54-58	10	1	50	
/	11211	PH $2 \times 90$	S2	54-58	10	1	50	
/	11217	PZ 2×70	S2	54-58	10	1	50	

Item	Sizes, mm	Material	Hardness, HRc	Complete set, pcs	Small package, pcs	Big package, pcs
11329	PH 1 × 25	S2	58-62	10	20	60
11330	PH $2 \times 25$	S2	58-62	10	20	60
11331	PH 3 × 25	S2	58-62	10	20	60
11339	PZ 1 × 25	S2	58-62	10	20	60
11340	PZ 2 × 25	S2	58-62	10	20	60
11341	PZ 3 × 25	S2	58-62	10	20	60
11349	PH 1 × 25	S2	58-62	2	20	60
11351	PH $2 \times 25$	S2	58-62	2	20	60





SL 4

SL 5

SL<sub>6</sub>

PH<sub>1</sub>

PH 2

PH 3

PZ 1

PZ 2

PZ3

PH 2

PH 2

SL 5

PH<sub>1</sub>

11324

11325

11326

11334

11335

11336

11344

11345

11346

11378

11379

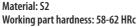
11376

11355







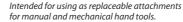












- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- Material: S2 steel, working part hardness 58-62 HRc.

Sizes, mm

Item

• Color ring with logo for counterfeit protection.

Small package.

Big package,

- · Nickel plating.
- Package: blister card.

Complete set.





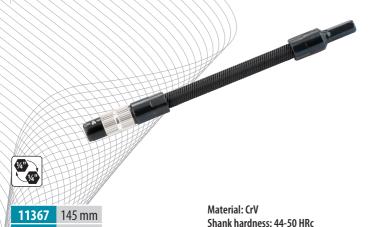




**GROSS GROSS Tool Catalog 2016**  Hardness, HRc

Material

# Flexible adapter for screwdriver



#### Essential for work in hard-to-reach places.

11369 190 mm

- Equipped with a rod of high flexibility, which significantly increases the range of assembly operations.
- Material of working part: CrV steel, hardness: 44-50 HRc.
- Packaging: sandwich.

#### Small pack, Big pack, Material Hardness, HRc Item CrV 25 11367 145, 1/4 44-50 250 11369 190, 1/4 CrV 44-50 25 250

# Bits with drive socket











11617	8 mm
11619	10 mm
11621	12 mm

11623	13 mm
11627	набор, 4 рсѕ

Material: S2 Working part hardness: 54–58 HRc

Intended for mounting/dismounting of bolts, roofing drywall screws and screws with hexagonal head

- Equipped with a fixed magnet for preventing the sliding out of the fastener.
- Body is equipped with rotating bushing for quick and comfortable using.
- Working part material: S2 steel, hardness
  54-58 HRc.
- · Package: sandwich.

ltem	Sizes, mm	Material	Hardness, HRc	Small package, pcs	Big package, pcs
11617	8	S2	54-58	50	200
11619	10	S2	54-58	20	120
11621	12	S2	54-58	20	120
11623	13	S2	54-58	20	120
11627	bits with drive socket	S2	54-58	24	96

# Bit adapter with limiter and double magnet









1/4

Material: CrV Shank hardness: 48-52 HRc

#### Intended for mounting/dismounting various fastening joints.

- · Wide adjustment range for various types of fasteners.
- Double magnetic fixer ensures quick and reliable mounting of attachments.
- Depth stop protects from damaging surfaces of soft materials, such as plasterboard.
- · High speed and quality of work.
- · Shank material: CrV steel, hardness of working part: 48-52 HRc.
- Packaging: sandwich.

# Bit adapter with holder and double magnet

11342

Material: CrV Shank hardness: 48-52 HRc

1/4

Intended for mounting/dismounting various fastening joints.

· Facilitates continuous working due to its «Quick-Lock» function.







- Reliable fixation of bits with a locking pin and a magnet.
- Shank material: CrV steel. hardness of working part: 48-52 HRc.
- Packaging: sandwich.

ltem	Size of shank, inch	Shank material	Hardness, HRc	Small pack, pcs	Big pack, pcs
11342	1/4	CrV	48-52	50	500

## Bit adapter with holder

11615

Material: CrV Shank hardness: 48-52 HRc







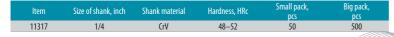


Intended for mounting/dismounting of the various fastening joints.

• A combination of the magnetic and mechanical fixers provides the quick and reliable fixing of the attachments

- A bit can be removed by pushing the fastener. off. This kind of a fixation prevents from random falling of the bit during the work.
- Shank material, CrV, working part hardness 48-52 HRc.
- Package: sandwich.

ltem	Size of shank, inch	Shank material	Hardness, HRc	Small pack, pcs	Big pack, pcs
11615	1/4	CrV	48-52	50	500





# Bit set in plastic box



**11361** 24 pcs







Bit material: S2 Hardness of bits working part: 52-54HRc Ergonomic 52 teeth ratchet Shock-proof plastic box

Intended for mounting/ dismounting threaded connections when performing fitter's and assembler's work.

Bit base is hexagonal shank 1/4 "DIN 3126 6.3.
Material: S2 steel, hardness of working

part: 52-54 HRc.

- Modern ergonomic 52 teeth ratchets wrenches with two-component handles.

  Magnetic adapter of lightly fives hits.

  Magnetic adapter of lightly fives hits.
- Magnetic adapter reliably fixes bits in the bit holder.
- Packaging: a box made of rigid shock-proof plastic with metal fasteners.

ltem	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
		PH1, PH 2, PH3	S2			
		PZ1, PZ2, PZ3	S2			
	bits	T10, T15, T20, T25, T27, T30, T40	S2			
		H3, H4, H5, H6	S2			
11361	sockets 1/4"	5, 6, 8, 10, 12, 13	CrV	24	1	30
	adapter	hex shank 1/4" – square 1/4"	CrV			
	bit holder		CrV			
	ratchet	1/4"	steel + plastic			
	box		plastic			

## Bit set in plastic box



**11363** 32 pcs







Bit material: S2 Hardness of bits working part: 52-54HRc Shock-proof plastic box

Intended for mounting/ dismounting threaded connections when performing fitter's and assembler's work.

- Bit base is hexagonal shank ¼ "DIN 3126 6.3.
- Material: S2 steel, hardness of working part: 52-54 HRc.
- Magnetic adapter reliably fixes bits in the bit holder.
- Packaging: a box made of rigid shock-proof plastic with metal fasteners.

ltem	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
		PH1, PH 2 × 2, PH3	S2			
		PZ1, PZ2 × 2, PZ3	S2			
		SL3, SL4, SL5, SL6	S2		1	30
11363	bits	TH10, TH15, TH20, TH25, TH27, TH30, TH40	S2	32		
		T10, T15, T20, T25, T27, T30, T40	S2			
		H3, H4, H5, H6	S2			
	adapter	hex shank 1/4"— square 1/4"	CrV			
	bit holder		CrV			
	box		plastic			

## Bit set in plastic box



**11365** 33 pcs





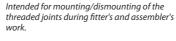


Bit material: S2 Hardness of bits working part: 52-54HRc Ergonomic 52 teeth ratchet Shock-proof plastic box

Intended for mounting/dismounting threaded connections when performing fitter's and assembler's work.

- Bit base is hexagonal shank ¼ "DIN 3126 6.3.
- · Material: S2 steel, hardness of working part: 52-54 HRc.
- Modern ergonomic 52 teeth ratchets wrenches with two-component handles.
- Magnetic adapter reliably fixes bits in the bit holder.
- Packaging: a box made of rigid shock-proof plastic with metal fasteners.

Modern erannomic 52 teeth ratchets wrenches



Bit set in plastic box

- Bit base: hexagonal shank 1/4" DIN 3126 E 6.3.
- · Modern ergonomic 52 teeth ratchet with twocomponent handle.









Bit material: S2 Bit working part hardness: 58-62 HRc Ergonomic 52 teeth ratchet Shock-proof plastic box

- · Magnetic adapter provides reliable fixation of the bit in the bit-holder.
- Material: S2 steel, working part hardness 52-54 HRc.
- A box is made of rigid shock-proof plastic with metal fasteners.
- · Package: blister card.

ltem	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
		PH1, PH 2 × 2, PH3	S2			
		PZ1, PZ2 × 2, PZ3	S2			
		SL3, SL4, SL5, SL6	S2			
	bits	TH10, TH15, TH20, TH25, TH27, TH30, TH40	S2			
11365	11365	T10, T15, T20, T25, T27, T30, T40	S2	33	1	30
		H3, H4, H5, H6	S2			
	adapter	hex shank 1/4" – square 1/4"	CrV			
	bit holder		CrV			
	ratchet	1/4"	steel + plastic			
	box		plastic			

Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs	1888
	SL: 3, 4, 5, 6					
bits	PH: 0, 1, 2, 3					7
	TH: 10, 15, 20, 25, 27, 30, 40	S2				7
	H: 3, 4, 5, 6					#
	T: 10, 15, 20, 25, 27 30, 40					//
connector	-		27	1	20	//
drive socket	5, 7, 8, 10, 12, 14 mm		3/		30	//
magnetic adapter	60 mm	CrV				1
extender	100 mm					1
cardan-extender	154 mm					//
reversive ratchet	1/4"					//
box	-	plastic				//
	bits  connector drive socket magnetic adapter extender cardan–extender reversive ratchet	SL: 3, 4, 5, 6 PH: 0, 1, 2, 3 TH: 10, 15, 20, 25, 27, 30, 40 H: 3, 4, 5, 6 T: 10, 15, 20, 25, 27 30, 40  connector drive socket magnetic adapter extender extender cardan—extender reversive ratchet  SL: 3, 4, 5, 6 T: 10, 15, 20, 25, 27 30, 40 Connector - 0 0 mm 100 mm 100 mm 14 mm 174 mm	SL: 3, 4, 5, 6   PH: 0, 1, 2, 3     Dits   TH: 10, 15, 20, 25, 27, 30, 40   S2     H: 3, 4, 5, 6   T: 10, 15, 20, 25, 27 30, 40     Connector	Size   Material   pcs	Size   Material   pcs   pcs	SL2   Material   pcs   pcs   pcs   pcs



# Screwdriver with bit set



















Intended for mounting/dismounting of the threaded joints with various nominal sizes.

- Bit base: hexagonal shank ¼" DIN 3126 E 6.3. Material: S2 steel, working part hardness 54-56 HRc.
- Original box is made from rigid plastic and equipped with comfortable and reliable fastener.
- · Package: carton box.

ltem	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
	bits	PH: 000, 00 (2 pcs), 0, 1 PZ: 000, 00 (2 pcs), 0, 1 SL: 0.8, 1.2, 1.5, 1.8, 2.0, 3.0 HEX: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0 T: 3, 4, 5, 6, 7, 8, 9, 10, 15 IT: 6, 7, 8, 9, 10, 15	CrMo			
11599	drive socket	2.5 (2 pcs), 3.0 (2 pcs), 3.5, 4.0, 4.5, 5.0 mm	-	48	6	24
	telescopic reversive ratchet for precision work	-	-			
	flexible extender	4×150 mm	-			
	box	-	plastic			

#### Ratchet with bit set and drive socket set















Intended for mounting/dismounting of the threaded joints with various nominal sizes.

Bit working part hardness: 54-56 HRc

Bit material: S2

Plastic box

- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- Material: S2 steel, working part hardness 54-56 HRc.
- Modern ergonomic 72 teeth ratchet.
- Original box is made from rigid plastic and equipped with comfortable and reliable fastener.
- Package: carton box.

ltem	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
		PH: 1, 2 (2 pcs), 3, 4				
		PZ: 1, 2 (2 pcs), 3, 4				
	bits	SL: 4, 5, 5.5, 6.5	S2			
	DITS	HEX: 2, 3, 4, 5, 6	52			
		T: 10, 15, 20, 25, 27, 30, 40				
11600		TT: 10, 15, 20, 25, 27, 30, 40		49	6	24
11000	drive socket	4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	-	49	0	24
	reversive ratchet	1/4"	-			
	extender	50 mm	-			
	bits adapter	60 mm	-			
	connector	-	-			
	box	-	plastic			

## Screwdriver with bit set





Bit material: S2 Two-positional T-shaped handle Plastic box

Original box is made from rigid plastic and

Intended for mounting/dismounting of the threaded joints with various nominal sizes.

- Bit base: hexagonal shank ¼" DIN 3126 E 6.3.
- Material: S2 steel, working part hardness 54-56 HRc.
- equipped with comfortable and reliable fastener.
- Package: carton box.

	Item	Components	Size	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
		two-positional screw- driver with ratchet	-				
			PH: 1, 2 × 2, 3			4	16
	44642		PZ: 1, 2 × 2, 3	S2	48		
		bits	SL: 4.5, 5.5, 8				
			H: 3, 4, 5, 6, 8				
	11613		T: 10, 15, 20, 25				
			TT: 10, 15, 20, 25, 27, 30, 40				
		drive socket	4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	-			
		magnetic bit adapter	60 mm	-			
		connector	-	-			
		box with insert	-	plastic			

# Ratchet screwdriver with revolving mechanism











Bit material: S2 Storage system with automatic bit feeding Bit hardness: 54-56 HRc 72 teeth mechanism

Intended for mounting/dismounting of the threaded joints with various nominal sizes.

- Bit base: hexagonal shank 1/4" DIN 3126 E 6.3.
- 72 teeth mechanism.

- Revolving type module presents the storage system with automatic bit feeding mechanism.
- · Reversive mechanism for easier screwing.
- · Package: sandwich.

ltem	Components	Size	Material	Small pack, pcs	Big pack, pcs
	ratchet screwdriver with 72 teeth mechanism	-	-		
11601	magnetic adapter	50 mm	_	12	48
	bits	SL4, SL6, PH1, PH2, PH3, T15, T20, Square1, Square2	S2		



# Ratchet screwdriver with extension bar



**11603** 12 bits

Bit material: S2 Bit storage system Bit hardness: 54-56 HRc

Intended for mounting/dismounting of the various types and sizes fasteners.

- 72 teeth mechanism.
- Reversing mechanism makes turning so much easier.
- Equipped with extension bar.
- Magnetic bit holder facilitates work in hard-to-reach places.
- 12 bits per set.
- · Package: sandwich.

#### Small pack, Big pack, Components Item ratchet screwdriver with 72 teeth mechanism magnetic holder 90 mm 11603 12 48 extension bar 3.5" SL5, SL6, SL7, PH1, PH2, PH3, T15, T20, bits S2 T25, HEX2.5, HEX3.0, HEX3.5,

## Ratchet screwdriver with telescopic magnet









**11607** 13 bits

Bit material: S2 Bit storage system Bit hardness: 57-62 HRc

Intended for mounting/dismounting of the various types and sizes fasteners.

- 72 teeth mechanism.
- · Reversing mechanism makes turning so much easier.
- Equipped with a magnetic telescopic rod to pick up small metal parts from hard-to-reach places.
- Equipped with a mini screwdriver with rotating backing plate and two interchangeable bits.

Item	Components	Size	Material	Small pack, pcs	Big pack, pcs
	ratchet screwdriver with 72 teeth mechanism	-			
11607	mini screwdriver	-			26
11607	mini bits	PH00-SL2.0, PH0-SL1.5	S2	b	36
	bits	SL4, SL5, SL6, PH0, PH1, PH2, PH3, T15, T25, HEX3.0, HEX4.0	S2		

# Ratchet screwdriver for precision works











**11609** 11 bits

Bit material: CrMo Bit storage system Bit hardness: 54-56 HRc Smart Push mini mechanism

Intended for mounting/dismounting of the various types and sizes fasteners.

- 72 teeth mechanism.
- Reversing mechanism makes turning so much easier.
- Equipped with a Smart Push mini mechanism for extraction of the bit holder hidden inside of the handle.
- · Package: sandwich.

# Ratchet screwdriver











**11611** 12 bits

Bit material: S2 Bit storage system Bit hardness: 54–56 HRc Smart Push mechanism

Intended for mounting/dismounting of the various types and sizes fasteners.

- 72 teeth mechanism.
- Reversing mechanism makes turning so much easier.
- Equipped with a Smart Push mechanism for extraction of the bit holder hidden inside of the handle.
- · Package: sandwich.

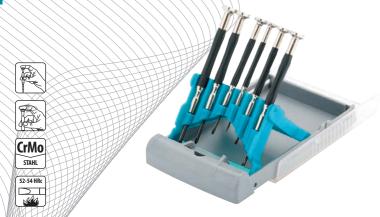
Item	Components	Size	Material	Small pack, pcs	Big pack, pcs
11600	ratchet screwdriver for precision works	-		12	06
11609	bits	SL2, SL3, PH00, PH1, PH2, T6, T7, T8,	CrMo	12	96

ltem	Components	Size	Material	Small pack, pcs	Big pack, pcs
	reversive ratchet	-			
11611	bits	SL4, SL5, SL6, SL7, PH0, PH1, PH2, PH3, T15, T20, T25, T30	S2	12	72



# Screwdriver set for precision work

# Screwdriver set for precision work





**13346** 6 pcs

Core material: CrMo steel. Hardness of working part: 52-54 HRc.

**13347** 6 pcs

CrMo

STAHL

52-54 HRc

Core material: CrMo steel. Hardness of working part: 52-54 HRc.

#### Intended for precision mechanical work.

- Core material: CrMo steel. Haraness of working part: 52-54 HRc.
- Tips with special wear-proof and corrosionresistant finish.
- Ergonomic handles with rotating back plate.
  This design substantially increases precision
  and provides convenience when working with
  microscrews.
- Packaging: plastic box.

#### Intended for precision mechanical work.

- Core material: CrMo steel.
   Hardness of working part: 52-54 HRc.
- Tips with special wear-proof and corrosionresistant finish.
- Ergonomic handles with rotating back plate.
  This design substantially increases precision
  and provides convenience when working with
  microscrews.
- Packaging: plastic box.

ltem	Size	Material	Handle	Complete set, pcs	Small pack, pcs	Big pack, pcs
13346	SL1,4, SL2,0, SL2,4, Ph00, Ph0, Ph1	CrMo	steel + rubber	6	12	96

ltem	Size	Material	Handle	Complete set, pcs	Small pack, pcs	Big pack, pcs
13347	SL1,5, SL2,0, SL3,0, Ph00, Ph0, Ph1	CrMo	steel + plastic + rubber	6	12	72

## Multi-size drive socket

**13190** 11–32 mm **13191** 6–21 mm

#### Material of working part: CrV Hardness: 57-60 HRc

Intended for mounting/dismounting fasteners of various types and sizes, for example:

to remove some types of wheel locks.



- Material of working part: CrV, polished chrome-plated finish.
- Internal rods are additionally hardened up to 57-60 HRc.
- Packaging: plastic hanging card.

ltem	Size, mm, inch	Material	Small pack, pcs	Big pack, pcs
13190	11-32, 1/2	CrV, mirror chrome	10	20
13191	6-21, 3/8	CrV, mirror chrome	12	96

# Spark plug socket with magnetic holder

13187	14 mm
13188	16 mm
13189	21 mm

#### Material of working part CrV Hardness 57—60 HRc

Intended for mounting/ dismounting spark plugs in petrol internal combustion engines.











- Material of working part CrV, chromed polished cover.
- Magnetic holder allow to avoid slipping out spark plug from the socket
- Package plastic hanging card.

Item	Size, mm, inch	Material	Small pack, pcs	Big pack, pcs
13187	14. 1/2	CrV, mirror chrome	24	96
13188	16, 1/2	CrV, mirror chrome	24	96
13189	21, 1/2	CrV, mirror chrome	24	96
	, .	,		

## Impact socket set.









**13513** 3 pcs

Intended to use together with pneumatic tools to mount/dismount wheel fittings.

- Hexagonal sockets, length: 85 mm.
- Plastic cover to protect wheel rim.

- Material of working part: CrMo Hardness: 57-60 HRc
- Different color coating.
- Material of working part: CrMo, hardness: 57-60 HRc.
- Packaging: plastic box.

ltem	Size, mm, inch	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
13513	17, 19, 21, 1/2	CrMo plastic box	3	5	20



# Folding key set



16412 HEX 16413 TORX 16414 universal Working part material: CrV Hardness: 47–50 HRc

# Intended for mounting/dismounting of fasteners.

- Professional set of folding keys.
- \ Compact design and easy-to-carry construction.
- Each key fold up into the handle for convenient storage.
- Working part material: chrome-vanadium steel; Hardness: 47-50 HRc.
- Package: blister.

/	ltem	Configuration	Material	Pcs per set	Small pack, pcs	Big pack, pcs
\	16412	HEX: 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm	CrV	8	1	100
/	16413	Tamper-Torx: 10, 15, 20, 25 (2 pcs), 27, 30, 40	CrV	7	1	100
/	16414	HEX: 2, 2.5, 3, 4, 5, PH: 2 SL: 5	CrV	8	1	100

# Hex key set



16400 HEX 16402 TORX Working part material: S2 Hardness: 47–52 HRc Extra-long Chrome-plated Color

# Intended for mounting/dismounting of fasteners.

- The keys are equipped with internal magnets for strong fixation with screws.
- Color marking.
- Extra-long.
- Chrome-plated.
- Working part material: S2; Hardness: 47-52 HRc.
- · Package: sandwich.

ltem	Configuration	Material	Pcs per set	Small pack, pcs	Big pack, pcs
16400	HEX: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 with cap	S2	9	12	36
16402	TORX: 10, 15, 20, 25, 27, 30, 40, 45, 50	S2	9	12	36

# Hex key set







16405	HEX, long
16406	HEX, extra-long
16407	TORX, long
16408	TORX, extra-long

Working part material: S2 Satin finish Hardness: 47–52 HRc

# Intended for mounting/dismounting of fasteners.

• Professional hex key set.

- · Satin finish.
- Working part material: S2; Hardness: 47–52 HRc.
- Package: sandwich.

# **Telescopic ratchet**











Material: CrV Hardness: 41-45 HRc Ergonomic two-component handle

#### Intended for quick mounting of fasteners.

- 72 teeth ratchet mechanism provides smooth operation while maintaining high strength.
- Step fixation mechanism allows changing the handle length and the range of an applied effort.
- The drive special design provides high load capacity and easy component replacement.
- Ergonomic two-component handle.
- Working part material: chrome-vanadium steel: Hardness: 41-45 HRc.
- Package: plastic hanging card.

ltem	Configuration	Material	Pcs per set	Specifications	Small pack, pcs	Big pack, pcs
16405	HEX: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, with cap	S2	9	long	12	36
16406	HEX: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, with cap	S2	9	extra-long	12	36
16407	TORX: 10, 15, 20, 25, 27, 30, 40, 45, 50	S2	9	long	12	36
16408	TORX: 10, 15, 20, 25, 27, 30, 40, 45, 50	S2	9	extra-long	12	36

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ltem	Size, mm, inch	Material	Handle	Small pack, pcs	Big pack, pcs
14070	305-445, 1/2	CrV, chrome-plated	two-component	5	100
14072	215-315, 3/8	CrV, chrome-plated	two-component	5	100
14074	150-200, 1/4	CrV, chrome-plated	two-component	5	100
		///////	///////////////////////////////////////	///////////////////////////////////////	



# **COMFORT ratchet**





CrV HIGH GRADE



14082 1/2" 3/8" 14084 14086 1/4" Material: CrV Hardness: 41-45 HRc Ergonomic two-component handle

#### Intended for quick mounting of threaded joints.

- Reverse ratchet mechanism with 72 teeth provides exceptional softness and flexibility
- Guaranteed long life time of the tool due to the oil-and-petrol resistant coating of its working part.
- Special design of the drive provides high load capacity and easy changing of all parts.
- Ergonomic two-component handle.
- Material of working part: CrV, hardness: 41-45 HRc.
- · Packaging: plastic hanging card.

# Torque-control adapter wrench













**14164** 42–200 Nm

Electronic Operating range: 42-200 Nm Automatic switch-off function Digital display

Intended for tighten critical threaded joints and control the tightening torque.

- Operates in the range of 42-200 Nm.
- · Light and audio alarm to determine tightening torque.
- Digital display makes it possible to monitor torque readings in real time.
- Equipped with automatic switch-off function.
- Packaging: protective case and shock-proof plastic box.

ltem	Size, inch	Material	Handle	Small pack, pcs	Big pack, pcs
14082	1/2	CrV	two-component	5	100
14084	3/8	CrV	two-component	5	100
14086	1/4	CrV	two-component	5	100

Item	Size, inch, Nm	Packaging	Small pack, pcs	Big pack, pcs
14164	1/2, 40-200	shock-proof case	1	12

# Folding cross wheel wrench



14270

CrV HIGH GRADE

> folding with adjustable lever, 17-23 mm

Material of working part: CrV Hardness: 41-46 HRc

# Intended for mounting/dismounting wheel fittings.

- Extended lever ensures higher efficiency in comparison with wrenches of standard length.
- Foldable: convenient for storing.

- Material of working part: CrV, hardness: 41-46 HRc, protective finish of polished chrome.
- Packaging: plastic hanging card.

# Folding cross wheel wrench



14250

folding, 17-21, 406 mm Material of working part: CrV Hardness: 41-46 HRc

# Intended for mounting/dismounting wheel fittings.

- Extended lever ensures higher efficiency in comparison with wrenches of standard length.
- Foldable: convenient for storing.

- Material of working part: CrV, hardness: 41-46 HRc, protective finish of polished chrome.
- Packaging: plastic hanging card.

ltem	Configuration	Material	Specifications	Packaging	Small pack, pcs	Big pack, pcs
14270	17, 19, 21, 23	CrV	folding, with adjustable lever	кейс	1	20

Item	Configuration	Material	Specifications	Small pack, pcs	Big pack, pcs
14250	17, 19, 21, 1/2	CrV	folding	1	20



## **Lightweight combination gloves**



90315 M 90316 L 90317 XL Protection against corns, scratches, abrasions, cuts and rubs
Reducing hands fatigue and strain
Gloves anatomical cuts
Ergonomic Cut professional seams
Fixing wrist cuffs

Intended for hands protection from mechanical damage during repair works.

The gloves have passed the laboratory test (test record #2255-TC-14.9/PPE dated 25.09.2014). Test results warp breaking strength: 630,2 N, fill breaking strength: 430,1 N; maximum load at breaking seam: 300,3 N, maximum breaking load: 50,2 N; there are uncritical abrasions after >500 cycles of the abrasion test; shear strength > 6,79 N/mm.

- The fingerless gloves are equipped with air-mesh inserts providing extra ventilation and improved elasticity. Consequently, hands do not sweat and do not slip on a surface.
- Material composition: palm: 50% Nylon, 50% Polyurethane; air-mesh insert: 100% Polyester; cuff-neoprene.
- · Package: carton hanger cards

## All-purpose combination gloves DELUXE



90333	L
90334	XL
90335	XXL

Protection against force impact Reducing hands fatigue Improved elasticity Gloves anatomical cuts Ergonomic Cut professional seams Fixing wrist cuffs

Intended to use in a variety of situations where reliable hand protection without encumbering fingers is needed.

- The gloves have passed the laboratory test (test record #2258-TC-14.9/PPE dated 25.09.2014).
  Test results: warp breaking strength: 610 N, fill breaking strength: 411 N; maximum load at breaking seam: 250 N, maximum breaking load: 27 N; there are uncritical abrasions after >500 cycles of the abrasion test; shear strength 8,06 N/mm.
- The rubber coating provides protection from force impact.
- Improved elasticity.
- · Abrasion resistant.
- Material composition: palm: 50% Nylon, 50% Polyurethane; molded insert: 100% SBR; upper pad: 100% Silica gel; hand: 93% Polyester, 7% Spandex; lower pad: 100% PVC.
- · Package: carton hanger cards.

ltem	Size	Model	Small pack, pcs	Big pack, pcs
90315	М	Fingerless	1	100
90316	L	Fingerless	1	100
90317	XL	Fingerless	1	100
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Item	Size	Model	Small pack, pcs	Big pack, pcs
90333	L	DELUXE	1	100
90334	XL	DELUXE	1	100
90335	XXL	DELUXE	1	100

## All-purpose combination gloves STYLISH



90327	L
90328	XL
90329	XXI

Protection against force impact and injuries Reducing hands fatigue Improved elasticity Gloves anatomical cuts Ergonomic Cut professional seams Fixing wrist cuffs

# Intended for hands protection from mechanical damage.

 The gloves have passed the laboratory test (test record #2257-TC-14.9/PPE dated 25.09.2014).
 Test results: warp breaking strength: 610.4 N, fill breaking strength: 420.8 N; maximum load at breaking seam: 260.8 N, maximum breaking load: 26.4 N; there are uncritical abrasions after >500 cycles of the abrasion test; shear strength – 5.99 N/mm.

- The impact—absorbent inserts on the palms protect hands from injuries.
- Material composition: palm: 50% Nylon, 50% Polyurethane; molded insert: 100% SBR; hand – 93% Polyester, 7% Spandex; air-mesh insert: 100% Polyester; pad: 100% PVC.
- · Package: carton hanger cards

## All-purpose combination gloves URBANE



90321	L
90322	XL
90323	XXL

#### Intended for high complexity work tasks.

 The gloves have passed the laboratory test (test record #2256-TC-14.9/PPE dated 25.09.2014).
 Test results: warp breaking strength – 630,2 N, fill breaking strength: 430,1 N; maximum load at breaking seam: 300,3 N, maximum breaking load: 19,8 N; there are uncritical abrasions after >500 cycles of the abrasion test; shear strength – 6,29 N/mm.

- Protection against corns, scratches, abrasions, cuts and rubs
  Reducing hands fatigue and strain
  Non–Slip pads
  Gloves anatomical cuts
  Ergonomic Cut professional seams
  Fixing wrist cuffs
- The SBR pads provide excellent grip of fingers.
   The impact-absorbent inserts on the palms protect hands from injuries.
- Material composition: palm: 50% Nylon, 50% Polyurethane; molded insert: 100% SBR; hand: 93% Polyester. 7% Spandex.
- Package: carton hanger cards.

ltem	Size	Model	Small pack, pcs	Big pack, pcs
90327	L	STYLISH	1	100
90328	XL	STYLISH	1	100
90329	XXL	STYLISH	1	100

Item	Size	Model	Small pack, pcs	Big pack, pcs
90321	L	URBANE	1	100
90322	XL	URBANE	1	100
90323	XXL	URBANE	1	100





# Closed-end ratcheting wrench set













Material: CrV Hardness: 58 HRc

# **Combination ratcheting wrench set**











14890	8-19 mm
14891	8-19 mm
14892	8-19 mm



Material: CrV Hardness: 58 HRc

#### Intended for efficient mounting/dismounting of screw joints.

- · Wrenches have two openings with different
- Openings of wrenches are made 12-point, increasing contact area of working surfaces and reducing the risk of deforming edges of fittinas.
- Reverse ratchet mechanism with 72 teeth.
- Material: CrV, hardness: 58 HRc. corrosion-resistant chrome-nickel finish.
- · Packaging: plastic holder.

#### Intended for efficient mounting/dismounting of screw joints.

- Ring opening of wrenches is made 12-point, increasing contact area of working surfaces and reducing the risk of deforming edges of fittings.
- · Reverse ratchet mechanism with 72 teeth.
- Material: CrV, hardness: 58 HRc, corrosion-resistant chrome-nickel finish.
- · Packaging: plastic holder.

ltem	Size, mm	Material	Hardness, HRc	Complete set, pcs	Small pack, pcs	Big pack, pcs
14893	8-19	CrV	58	2	10	20

Item	Components	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
14890	Wrenches	8, 10, 12, 13, 14, 17, 19	CrV	7	6	24
14891	Hinged wrenches	8, 10, 12, 13, 14, 17, 19	CrV	7	6	24
14892	Reverse wrenches	8, 10, 12, 13, 14, 17, 19	CrV	7	4	24
		//////	/////	7//////////		7777777777777



# **Reinforced combination wrench**







Material CrV Hardness 45–48 HRc Reinforced cold stamp

# Intended for mounting/ dismounting union

- Made from high quality CrV steel cold stamp
- Haraness of working covers 45–48 HRc.
   Mrench has open end from one side and closed

end from another side.

- Profile of span has 12 edges which increase the contact area of working covers and decrease risk of deformation.
- Angle of slope for span comparative flatness is 15 degrees, which made assembling more comfortable.
- Chrome plate protected from corrosion
- · Packaging: plastic hanging card.

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
15125	6	CrV	1	500
15126	7	CrV	1	500
15127	8	CrV	1	500
15128	9	CrV	1	500
15129	10	CrV	1	400
15130	11	CrV	1	400
15131	12	CrV	1	400
15132	13	CrV	1	250
15133	14	CrV	1	200
15134	15	CrV	1	200
15136	17	CrV	1	150
15138	19	CrV	1	120
15140	22	CrV	1	80
15142	24	CrV	1	60
15144	27	CrV	1	50
15145	32	CrV	1	30

## **Reinforced combination wrenches set**







15147	8–17 mm
15148	8-19 mm
15149	6-22 mm



Material CrV Hardness 45–48 HRc Reinforced cold stamp

# Intended for mounting/ dismounting union joints.

- Made from high quality CrV steel cold stamp method.
- Hardness of working covers 45–48 HRc.
- Wrench has open end from one side and closed end from another side.
- Profile of span has 12 edges which increase the contact area of working covers and decrease risk of deformation.
- Angle of slope for span comparative flatness is 15 degrees, which made assembling more comfortable.
- Chrome plate protected from corrosion.
- · Protective cover.
- · Packaging: carton box.

Item	Size, mm	Material	Quantity	Small pack, pcs	Big pack, pcs
15147	8, 10, 12, 13, 14, 17	CrV	6	1	30
15148	8, 9, 10, 12, 13, 14, 17, 19	CrV	8	1	20
15149	6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22	CrV	12	1	15

# Adjustable wrench











Two-component handle Material: CrV

Hardness: 45-48 HRc

# Intended for mounting/ dismounting union joints.

- Ergonomic two-component handle allow to apply heavy effort.
- Special form of jaws prevent spin-out and give reinforced grasp.
- 30% lighter than standard wrench.
- Wider jaws opening in comparison with standard adjustable wrench.
- Package: blister.

# Adjustable wrench













Shortened handle Material: CrV Hardness: 45-48 HRc

# Intended for mounting/dismounting union ioints.

- Shortened handle allow to work in out of the way places.
- Special form of jaws is thin and long which provide reinforced grasp and prevent spin-out.
- Opening diapason is bigger on 50% than standard wrench.
- · Package: carton hanging card.

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
15561	200	CrV	6	60
15562	250	CrV	6	48

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
15564	150	CrV	6	72
15565	200	CrV	6	72
15566	250	CrV	6	36



### Adjustable wrench



#### Intended for mounting/ dismounting union joints.

**15569** 250 mm

Ergonomic rubberized handle allow to apply heavy effort

Thin, long jaws

- Jaws protectors which prevent from damaging chromed details
- 30% wider jaws opening in comparison with standard wrench
- Package: blister.

Hardness 42-48 HRc

### Solid-forged level pipe wrench L-type



15600	№0 — L 3/4"
15601	№1 – L 1"
15603	№2 – L 1,5"

15605	№3 – L 2″
15606	Nº4 – L 3"

Material: CrV Hardness: 55-60 HRc Progressive tooth shape

#### Intended for grasp and rotary moving of tubes and connecting parts of pipe lines.

- L-type wrench has reinforced construction, used for high efforts.
- Used in out of the way places and for gripping parts with difficult shapes.
- Progressive tooth shape ensures self-locking grip of parts.

- Adjusting nut with locking ring.
- Drop-forged T-shape profile on upper handle.
- Material: CrV.
- Hardness: 55-60 HRc.
- Corrosion-resistant powder coating.
- · Package: carton box.

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
15567	150	CrV	1	96
15568	200	CrV	1	72
15569	250	CrV	1	30

ltem	Nº	Size, inch	Material	Туре	Hardness HRc	Small pack, pcs	Big pack, pcs
15600	0	3/4	CrV	L	55-60	1	36
15601	1	1,0	CrV	L	55-60	1	24
15603	2	1,5	CrV	L	55-60	1	12
15605	3	2,0	CrV	L	55-60	1	10
15606	4	3,0	CrV	L	55-60	1	6

### Solid-forged level pipe wrench S-type









for high efforts.



15615	№3 — S 2"
15616	№4 — S 3"

Material: CrV Hardness: 55-60 HRc Progressive tooth shape

## Intended for grasp and rotary moving of tubes and connecting parts of pipe lines.

- S-type wrench has reinforced construction, used
- Used in out of the way places and for gripping parts with difficult shapes.
- Progressive tooth shape ensures self-locking grip of parts.

- · Adjusting nut with locking ring.
- Drop-forged T-shape profile on upper handle.
- Material: CrV.
- Hardness: 55-60 HRc.
- · Corrosion-resistant powder coating.
- · Package: carton box.

### Solid-forged level pipe wrench B-type









15620	№0 — B 0,5"
15621	№1 – B 1"
15622	№2 – B 1.5"



Material: CrV Hardness: 55-60 HRc Progressive tooth shape

### Intended for grasp and rotary moving of tubes and connecting parts of pipe lines.

- B-type wrench has reinforced construction, used for high efforts
- Used in out of the way places and for gripping parts with difficult shapes
- Progressive tooth shape ensures self-locking arip of parts

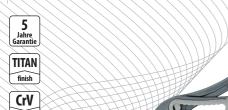
- · Adjusting nut with locking ring
- Drop-forged T-shape profile on upper handle
- Material: CrV.
- Hardness: 55-60 HRc.
- Corrosion-resistant powder coating.
- Package: carton box.

Item	Nº	Size, inch	Material	Туре	Hardness HRc	Small pack, pcs	Big pack, pcs
15610	0	0,5	CrV	S	55-60	1	48
15611	1	1	CrV	S	55-60	1	18
15613	2	1,5	CrV	S	55-60	1	12
15615	3	2	CrV	S	55-60	1	8
15616	4	3	CrV	S	55-60	1	6

ltem	Nº	Size, inch	Material	Туре	Hardness HRc	Small pack, pcs	Big pack, pcs
15620	0	0,5	CrV	В	55-60	1	48
15621	1	1	CrV	В	55-60	1	24
15622	2	1,5	CrV	В	55-60	1	18
15623	3	2	CrV	В	55-60	1	8
15624	4	3	CrV	В	55-60	1	6



### **Arc joint pliers Classic Plus**





15715

240 mm

Material of working part: CrV Hardness: 55-59 HRc Dip-coated handles 5-year warranty

Intended for working with pipes, fittings and also for other mechanical and assembling work.

- Maximum opening of gripping jaws up to 50 mm.
- Equipped with a slot to grip and hold round
  parts.
- Protection from casual catching of fingers in any operating position.
- Material of working part: CrV, hardness: 55-59 HRc.
- Dip-coating of handles.
- 5-year warranty for production defects.
- · Packaging: hanging carton card.

### **Quattro-Grip arc joint pliers**











**15712** 260 mm **15716** 320 mm



Material of working part: CrV Hardness: 55-59 HRc Patented self-clamping mechanism Dip-coated handles 5-year warranty

Intended for working with pipes, fittings and also for other mechanical and assembling work.

- Maximum opening of gripping jaws up to 50 mm (Item 15712) and 75 mm (Item 15716).
- Patented self-clamping ratchet mechanism for quick and precise adjustment according to sizes of the part.
- · Inverted hinge with wide guide planes.
- Equipped with a slot to grip and hold round parts.

- Protection from casual catching of fingers in any operating position.
- Material of working part: CrV, hardness: 55-59 HRc.
- Dip-coating of handles.
- 5-year warranty against production defects.
- · Packaging: hanging carton card.

ltem Si	ze, mm	Material	Handle	of gripping jaws, mm	Small pack, pcs	Big pack, pcs
15715	240	CrV	dip-coating	50	6	30

ltem	Size, mm	Material	Handle	Maximum opening of gripping jaws, mm	Small pack, pcs	Big pack, pcs
15712	260	CrV	dip coating	50	6	30
15716	320	CrV	dip coating	75	6	30

### S-Pipe arc joint pliers









15720

400 mm



Material of working part: CrV Hardness: 55-59 HRc S-shape profile «S-Pipe» Patented self-clamping mechanism Dip-coated handles 5-year warranty

Intended for working with pipes, fittings and also for other mechanical and assembling work.

- S-shape profile (S-Pipe) for reliable holding of pipes and fittings.
- Maximum opening of gripping jaws up to 100 mm.
- · Inverted hinge with wide guide surfaces.
- Protection from casual catching of fingers in any operating position.
- Material of working part: CrV, hardness: 55-59 HRc.
- Dip-coating of handles.
- 5-year warranty against production defects.
- · Packaging: hanging carton card.

### **Combination pliers**











16985 200 mm



**Ergonomic handles** 

5-year warranty

Intended for a wide range of mechanical and assembly operations.

- Bent shape of tool working part increases convenience of its use as operator's palm remains in its natural position: not angled.
- Equipped with additional internal edges and can be used as a spanner from M8 to M10 (Ø 11-17 mm).
- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.

• Ergonomic handles.

Corrosion-resistant «TITAN finish»

- Equipped with a slot to grip and hold round parts.
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger.
- Material of working part: C45, hardness: 55-57 HRc, special corrosion-resistant «TITAN finish»
- 5-year warranty against production defects.
- Packaging: hanging carton card.

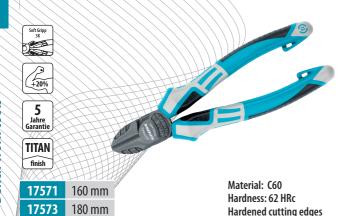
ltem	Size, mm	Material	Handle	Maximum opening of gripping jaws, mm	Small pack, pcs	Big pack, pcs
15720	400	CrV	dip coating	100	15	30



ltem	Size, mm	Material	of soft wire <sup>1</sup> , mm	of wire of medium stiffness <sup>2</sup> , mm	of stiff wire³, mm	Cable, mm	angle of tool head	of spanner, mm	pack, pcs	pack, pcs
16985	200	C45	5,9	3,4	2,5	13,0	45°	11-17	6	30

Diameter

### **Side cutters**



Intended for a wide range of mechanical and assembly operations.

- Wavy profile of inner surface prevents cables from slipping when you cut them.
- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.
- Ergonomic handles.

• Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.

Corrosion-resistant «TITAN finish»

 Material of working part: C60, hardness: 62 HRc,

**Ergonomic handles** 

5-year warranty

- special corrosion-resistant «TITAN finish». · 5-year warranty against production defects.
- · Packaging: hanging carton card.

# Side cutters heavy-duty



**17575** 215 mm

Material: C60 Hardness: 62 HRc Hardened cutting edges **Ergonomic handles** Corrosion-resistant «TITAN finish»

5-year warranty

#### Intended for a wide range of mechanical and assembly operations.

- Wavy profile of inner surface prevents cables from slipping when you cut them.
- · Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.
- · Eraonomic handles.

- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- Material of working part: C60, hardness: 62 HRc, special corrosion-resistant «TITAN finish».
- · 5-year warranty against production defects.
- · Packaging: hanging carton card.

Item	Size, mm	Material	of soft wire <sup>1</sup> , mm	medium stiffness², mm	wire³, mm	diameter, mm	wire, mm	pack, pcs	pack, pcs
17571	160	C60	6,0	3,5	2,0	11,0	-	6	30
17573	180	C60	7,0	4,0	2,5	13,0	-	6	30

ltem	Size, mm	Material	Diameter of soft wire <sup>1</sup> , mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Cable diameter, mm	Diameter of piano wire, mm	Small pack, pcs	Big pack, pcs
17575	215	C60	7,0	4,5	3,5	10,0	3	6	30

### **Combination pliers**













Material: C45
Hardness: 55-57 HRc
Hardened cutting edges
Can be used as spanner from M8 to M10 (Ø11-17 mm)
Ergonomic three-component handles
Corrosion-resistant «TITAN finish»
5-year warranty

Intended for a wide range of mechanical and assembly operations.

- Equipped with additional internal edges and can be used as a spanner from M8 to M10 (Ø 11-17 mm).
- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.
- · Ergonomic handles.

- Equipped with a slot to grip and hold round
  parts
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger.
- Material of working part: C45, hardness: 55-57 HRc, special corrosion-resistant «TITAN finish».
- 5-year warranty against production defects.
- Packaging: hanging carton card.

### **Long-nose pliers**











Material: C45
Hardness: 55-57 HRc
Hardened cutting edges
Can be used as spanner from M6 to M8 (Ø10-14 mm)
Ergonomic three-component handles
Corrosion-resistant «TITAN finish»
5-year warranty

# Intended for a wide range of mechanical and assembly operations.

- Equipped with additional internal edges and can be used as a spanner from from M6 to M8 (Ø 10-14 mm).
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- Ergonomic handles.
- Material of working part: C45, hardness: 55-57 HRc. special corrosion-resistant «TITAN finish».
- 5-year warranty against production defects.
- Packaging: hanging carton card.

ltem	Size, mm	Material	Diameter of soft wire <sup>1</sup> , mm	Diameter of wire of medium stiffness <sup>2</sup> , mm	Diameter of stiff wire³, mm	Cable, mm	Small pack, pcs	Big pack, pcs
16972	165	C45	4,0	3,1	2,0	10,0	1	6
16973	180	C45	5,2	3,4	2,2	12,0	1	6
16975	205	C45	5,9	3,8	2,5	13,0	1	6

ltem	n Size, mm	Material	Diameter of soft wire <sup>1</sup> , mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Size of spanner, mm	Small pack, pcs	Big pack, pcs
1717	0 170	C45	2,5	1,6		10-14	6	30
1717	1 205	C45	3,9	3,2	2,2	10-14	6	30





### **Dielectric cable cutter**















Dielectric capacity of handles: up to 1000V Cable diameter (copper, aluminum): 16 mm Material of working part: C60 Corrosion-resistant «TITAN finish» 5-year warranty

#### Intended for a wide range of mechanical and assembly operations.

- · Handles with dielectric capacity (up to 1000V, VDE standard, IEC 60900).
- · Used to strip insulation, cut copper and aluminum electric cables (cannot be used for steel wire, aluminum alloys and cold-drawn copper wire).
- Rounded cutting edges with teeth prevent cable from slipping and increases cutting efficiency.
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- Material of working part: C60.
- Adjustable screw hinge.
- · Ergonomic handles.
- · Special corrosion-resistant «TITAN finish».
- · 5-year warranty against production defects.
- Packaging: hanging carton card.

ltem	Size, mm	Cable diameter (copper, aluminium), mm	Cable section area (copper, aluminum), mm²	Small pack, pcs	Big pack, pcs
17725	160	16	50	6	30

1220 N/mm<sup>2</sup> 2750 N/mm<sup>2</sup> 31800 N/mm<sup>2</sup>

### **Combination pliers**











16989

180 mm



Dielectric capacity of handles: up to 1000V Can be used as spanner from M8 to M10 (Ø11-17 mm) Material of working part: C45 Hardness: 55-57 HRc Corrosion-resistant «TITAN finish» 5-year warranty

# Intended for a wide range of mechanical and assembly operations.

- Handles with dielectric capacity (up to 1000V, VDE standard, IEC 60900).
- Equipped with additional internal edges and can be used as a spanner from M8 to M10 (Ø 11-17 mm).
- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.

- Eraonomic handles.
- Equipped with a slot to grip and hold round
  parts
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger.
- Material of working part: C45, hardness: 55-57 HRc,
- · Special corrosion-resistant «TITAN finish».
- 5-year warranty against production defects.
- Packaging: hanging carton card.

### **Dielectric side cutters**











17582 180 mm



Dielectric capacity of handles: up to 1000V Material of working part: C60 Hardness: 62 HRc

Hardness: 62 HRC Corrosion-resistant «TITAN finish» Ergonomic handles

5-year warranty

### Intended for a wide range of mechanical and assembly operations.

- Handles with dielectric capacity (up to 1000V, VDE standard, IEC 60900).
   Wavy profile of inner surface prevents cables
- from slipping when you cut them.

  Reinforcing ribs on outer metal parts of the
- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges increases cutting efficiency by 20%.

- · Ergonomic handles.
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- Material of working part: C60, hardness: 62 HRc.
- Special corrosion-resistant «TITAN finish»
- 5-year warranty against production defects.
- Packaging: hanging carton card.

ltem	Size, mm	Diameter of soft wire <sup>1</sup> , mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Cable, mm	Size of spanner, mm	Small pack, pcs	Big pack, pcs
16989	180	5,2	3,4	2,2	12,0	11-17	6	30

ltem	Size, mm	Material	Diameter of soft wire <sup>1</sup> , mm	Diameter of medium stiffness², mm	Diameter of stiff wire³, mm	Cable, mm	Small pack, pcs	Big pack, pcs
17582	180	C60	7,0	4,0	2,5	13,0	6	30
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### **Long-nose pliers**

17177 205 mm

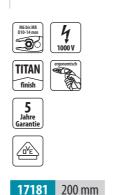


Dielectric capacity of handles: up to 1000V Material of working part: C45 Hardness: 55-57 HRc Can be used as spanner from M6 to M8 (Ø10-14 mm) Corrosion-resistant «TITAN finish» 5-year warranty

Intended for a wide range of mechanical and assembly operations.

- Handles with dielectric capacity (up to 1000V, VDE standard, IEC 60900).
- Equipped with additional internal edges and can be used as a spanner from M6 to M8 (Ø 10-14 mm).
- · Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- · Ergonomic handles.
- Material of working part: C45, hardness: 55-57 HRc.
- · Special corrosion-resistant «TITAN finish».
- · 5-year warranty against production defects.
- Packaging: hanging carton card.

### Long-nose pliers with bent head





#### Intended for a wide range of mechanical and assembly operations.

- · Bent shape of tool working part increases convenience of its use as operator's palm remains in its natural position: not angled.
- · Handles with dielectric capacity (up to 1000V, VDE standard, IEC 60900).
- · Hinge displacement towards the cutting edges increases cutting efficiency by 20%.
- · Ergonomic handles.

- · Equipped with a slot to grip and hold round
- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger.
- Material of working part: C45.
- · Special corrosion-resistant «TITAN finish».
- · 5-year warranty against production defects.
- · Packaging: hanging carton card.

/	ltem	Size, mm	Material	Diameter of soft wire <sup>1</sup> , mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Size of spanner, mm	Small pack, pcs	Big pack, pcs	
/	17177	205	C45	3,9	3,2	2,2	10-14	6	30	

Stock No.	Size, mm	Diameter of soft wire <sup>1</sup> , mm	Diameter of stiff wire³, mm	Cable, mm	Inclination angle of tool head	Size of spanner, mm	Max section of cable, mm²		Small pack, pcs	Big pack, pcs
17181	200	5,9	2,5	13,0	45°	11-17	2,5	1,5	6	30

### **End cutting pliers**











17990 200 mm



Hardness: 62 HRc Material of working part: C60 Corrosion-resistant «TITAN finish» Ergonomic handles 5-year warranty

### **End cutting pliers**









17992 250 mm



Material of working part: C60 Dip-coated handles Corrosion-resistant «TITAN finish» 5-year warranty

### Intended for a wide range of mechanical and assembly operations.

- Reinforcing ribs on outer metal parts of the tool make it stronger.
- Hinge displacement towards the cutting edges and optimal correlation of levers increase cutting efficiency by 50%.
- · Ergonomic handles.

- Bottom parts of handles are equipped with supports for possible mounting of an automatic release spring or a bracket with hanger: to expand tool functions.
- Hardness: 62 HRc, material of working part: C60.
- Special corrosion-resistant «TITAN finish».
- 5-year warranty against production defects.
- · Packaging: hanging carton card.

### Intended for a wide range of mechanical and assembly operations.

- Intended for quick and secure connection of steel reinforcing rods and cutting fastening wire.
- Cutting edges of end cutting pliers are exposed to additional hardening with induction currents.
- · Dip-coating of handles.
- Material of working part: C60.
- Special corrosion-resistant «TITAN finish».
- 5-year warranty against production defects.
- Packaging: hanging carton card.

ltem	Size, mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Rod steel, mm	Small pack, pcs	Big pack, pcs
17990	200	4,5	3,5	4	6	30

ltem	Size, mm	Diameter of wire of medium stiffness², mm	Diameter of stiff wire³, mm	Small pack, pcs	Big pack, pcs
17992	250	3,4	2,0	6	30
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\$220 N/mm² / 2750 N/mm² / 3/1800 N/mm²

### **Electric wire stripper**









**7718** 0,05-8 mm<sup>2</sup>

Material of working part: HCS Ergonomic two-component handles Broad range of adjustment Adjustment of length of insulation stripped

Intended to strip insulation from electric wire during electric mounting operations.

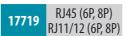
- Broad range of adjustment makes it possible to work with basic sizes of electric wire and strip insulation without damaging internal cores.
- · Adjustment of length of insulation stripped.
- Function to crimp insulated and bare terminals.
- Material of working part: HCS.
- · Ergonomic two-component handles.
- Packaging: blister card.

### Crimping pliers for telephone and computer terminals











Material of working part: SK5 Hardness: 58-60 HRc Ergonomic two-component handles Built-in cutting pliers Ratchet mechanism

### Intended to crimp computer and telephone terminals.

- Built-in cutting pliers make it possible to easily cut wire and crimp contact terminals of basic standard sizes RV45 (6P, 8P), RV11/12 (6P, 8P), which are used to connect computers and telephone sets to networks.
- Ratchet mechanism makes it possible to perform operations «till final crimping», when crimping contact terminals.
- Material of working part: SK5 steel, hardness: 58-60 HRc.
- Ergonomic two-component handles.
- Packaging: slide card.

17718 0,05–8 two-component	6 60	

ltem	Material	Handle	Telephone and computer terminals	Small pack, pcs	Big pack, pcs
17719	SK5	two-component	RJ45 (6P, 8P), RJ11/12 (6P, 8P)	8	48



### **Pitching chisel**



56 HRc DIN

CrV

HIGH GRADE

DIN 5234 7254-A

18701 254×19 mm 18703  $305 \times 25 \,\mathrm{mm}$  Material of working part: CrV Hardness: 54-60 HRc Ergonomic three-component handle **Double-sided sharpening** 

Intended to split brick, chase concrete surfaces, for sculptural works, etc.

- Double-sided sharpening of working part.
- Equipped with a guard to ensure safety during work.
- Material of working part: CrV, hardness: 54-60 HRc, corrosion-resistant protective finish.
- Eraonomic three-component handle.
- Packaging: plastic hanging card.

ltem	Size, mm	Material	Hardness, HRc	Handle	Small pack, pcs	Big pack, pcs
18701	254×19	CrV	54-60	three-component	5	20
18703	$305 \times 25$	CrV	54-60	three-component	5	20

### **Caulking chisel**







18705 215 × 44 mm 18707 215 × 70 mm

Material: CrV Hardness: 56-60 HRc Double-sided sharpening



Intended to split ceramic tile and also for caulking timber walls in block houses.

- Hardened cutting edge to increase durability and endurance.
- Double-sided sharpening of working part.
- Material of working part: CrV, hardness: 56-60 HRc.
- · Handle with a guard to ensure safety during work.
- Packaging: plastic hanging card.

### **Center punch**







18801	254 mm
18803	305 mm

Material: CrV Hardness: 54-60 HRc Anticorrosive enamel



Intended for chasing concrete surfaces and also for center-punching openings for further work with drill or hammer drill bit.

- Hardened cutting edge to increase durability and endurance.
- Blade covered with protective anticorrosive enamel.
- Double-sided sharpening of working part.
- Blade material: CrV, hardness of working part: 54-60 HRc.
- Handle with a quard to ensure safety during work.

Item	Size, mm	Material	Hardness, HRc	Handle	Small pack, pcs	Big pack, pcs
18705	$215 \times 44$	CrV	56-60	three-component	5	20
18707	$215 \times 70$	CrV	56-60	three-component	5	20
18801	254	CrV	54-60	three-component	5	20
18803	305	CrV	54-60	three-component	5	20



### **Quick-lock bar-clamp**







**20717** 4"/100 mm **20719** 8"/200 mm **20721** 12"/300 mm Body material: magnesium and cold-rolled steel alloy Locking mechanism

Intended to fix parts and workpieces made of various materials.

Perfect for assembling operations and simultaneous use of several clamps.

- Due to VIBRAFIX locking mechanism powerful clamping force of 1200 N is created by only two fingers.
- Body material: magnesium and cold-rolled steel allov.
- Hi-tech: clamping is quick, easy and careful.

#### Size, inch/mm Material Handle ltem Small pack, pcs Big pack, pcs 20717 CrV + plastic 4/100 metal 8/200 20719 CrV + plastic metal 10 20721 12/300 CrV + plastic metal

### Quick-lock bar-clamp, pistol type







**20701** 24" / 610 mm



Trigger mechanism Two-component handle High-speed step mechanism of jaw Detachable moving jaw

## Intended to fix parts when installing wood structures.

- Geometrical structure of gripping jaws provides reliable grip of parts processed.
- Detachable moving jaw makes it possible to turn it on the bar.
- Moving jaw is equipped with high-speed step mechanism of movement along the bar.
- Grips workpieces of various shape.
- Two-component handle and trigger mechanism.

ltem	Size, inch/mm	Material	Handle	Small pack, pcs	Big pack, pcs	
20701	24/610	plastic	plastic	1	10	

### **Claw clamp**







20801 1-1/2"/38 mm 20803 2-1/4"/58 mm 20805 4"/100 mm

Intended to fix parts and workpieces made of various materials.

- Ratchet gear mechanism ensures solid fixation and instant opening after pulling the trigger.
- Plastic clamping pads allow you to place the clamp at different angles.

Material: shock-resistant plastic Ratchet gear mechanism Two-component handles Flexible clamping pads

- Increased radius of grip between working jaws.
- Two-component handles.
- Body material: shock-resistant plastic with rubber pads.

### Quick-lock rack-and-gear clamp







20705	6" / 150 mm
20707	12"/300 mm
20709	18" / 450 mm

Intended to fix parts and workpieces made of various materials.

• Ratchet mechanism and locking lever are situated in the upper part of clamp.



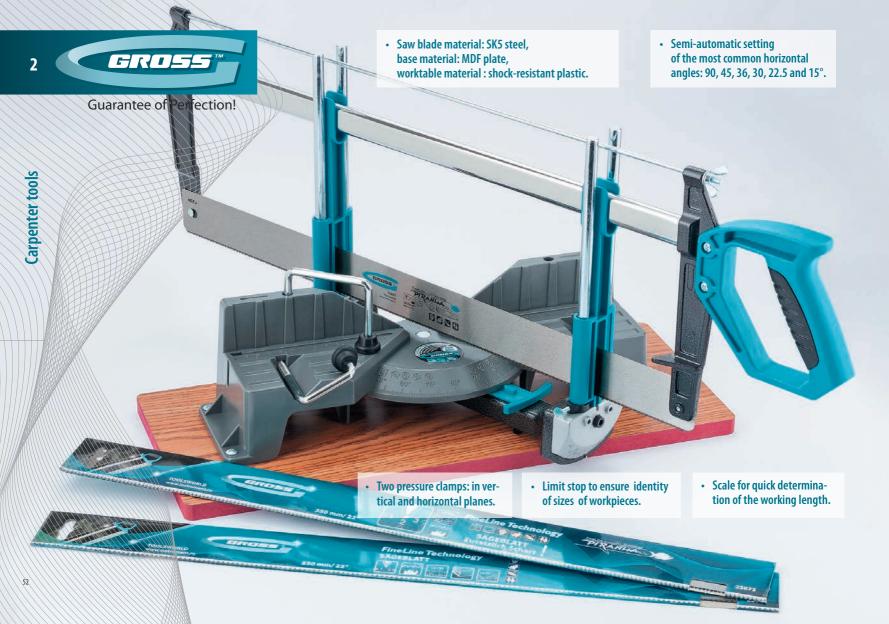
Material: shock-resistant plastic Ratchet mechanism Two-component lever-handle Hinged clamping pads

- Equipped with hinged clamping pads on working jaws.
- Two-component lever-handle.
- Body material: shock-resistant plastic.

ltem	Size, inch/mm	Material	Handle	Small pack, pcs	Big pack, pcs
20801	1-1/2 / 38	plastic	plastic	10	100
20803	2-1/4 / 58	plastic	plastic	10	60
20805	4 / 100	plastic	plastic	10	40

ltem	Size, inch/mm	Material	Handle	Small pack, pcs	Big pack, pcs
20705	6 / 150	plastic	plastic	1	10
20707	12/300	plastic	plastic	1	10
20709	18 / 450	plastic	plastic	1	10





### **Precision miter box**









22757 22759\*

550 mm 600 mm



Intended for making cuts on workpieces (medium or small thickness), made of wood, plastic, polyurethane, etc.

- Two clamps: in vertical and horizontal planes.
- Semi-automatic and mechanical setting of the most common horizontal angles: 90, 45, 36, 30, 22.5 and 15°.
- Equipped with a scale for quick determination of working length.
- Limit stop to ensure same sizes of all workpieces.

 Saw blade material: SK5 steel, base material: MDF plate, worktable material: shock-resistant plastic.

# Item Saw size, mm Material Handle Small pack, pcs Big pack, pcs 22757 550 CrV plastic 1 1 22759 \* 600 CrV plastic 1 1

of angles

### PIRANHA saw blade for precision miter box



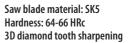








22861	550 mm, 2D, 14 TPI
22863	550 mm, 2D, 18 TPI
22865	550 mm, 2D, 24 TPI
22867	600 mm, 2D, 14 TPI



22869	600 mm, 2D, 18 TPI
22871	600 mm, 2D, 24 TPI
22873	550 mm, 3D, 18 TPI
22875	600 mm, 3D, 18 TPI

### Intended for working with different kind of materials.

- Extended and thin tooth with 2D and 3D diamond sharpening.
- Hardened cutting edge, hardness: 64-66 HRc.
- Blade material: SK5 steel.
- · Complies with ANSI, DIN standards.

Item	Blade length, mm	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
22861	550	2D	14	SK5	10	250
22863	550	2D	18	SK5	10	250
22865	550	2D	24	SK5	10	250
22867	600	2D	14	SK5	10	250
22869	600	2D	18	SK5	10	250
22871	600	2D	24	SK5	10	250
22873	550	3D	18	SK5	10	250
22875	600	3D	18	SK5	10	250



<sup>\*</sup> Biplanar



### Solid-forged axe



**21500** 950 g

Working part material: C55 Working part hardness: 48-54 HRc Three-component handle with ventilation holes Corrosion-resistant coating

Intended for all types of carpentry work, used as a camping equipment.

- Sandblasted finish; corrosion-resistant polymer
- Three-component handle with ventilation holes.
- Working part hardness on 3 mm depth of cut: 48-54 HRc.
- Working part material: C55 steel.
- Compliance with DIN-7287 standard.
- · Package: plastic hanging card.

ltem	Weight, g	Material	Small pack, pcs	Big pack, pcs
21500	950	C55	4	16

### PIRANHA narrow-blade wood hacksaw













Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective cover

Intended for **curved** cutting of wooden workpieces.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

### **PIRANHA MINI saw**

















**23109** 240 mm / 9-1/2", 17-18 TPI



#### Intended for precision work.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23100	300/12	3D	11-12	SK5	12	48

ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23109	240/9-1/2	3D	17-18	SK5	12	48



### **PIRANHA** backed saw for miter boxes



**23141** 350 mm / 14", 11-12 TPI

Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective cover

#### Intended for working with miter boxes.

- \* Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- · Saw blade material: SK5 steel. blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

### PIRANHA saw for plywood with notch















**23144** 300 mm / 12", 11-12 TPI



Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective cover

Intended for working with miter boxes, cutting wooden workpieces and making cuts in hard-toreach places.

- · Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.

- · Saw blade material: SK5 steel. blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

V	ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
V	23141	350/14	3D	11-12	SK5	12	48

ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23144	300/12	3D	11-12	SK5	12	48

### **PIRANHA multifunctional wood saw**











Blade material: SK5 Maximum blade flexibility Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective cover

Intended for cutting wooden workpieces at curved lines by bending the blade at different angles.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.

- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

### PIRANHA grooving backed saw



23147 250 mm / 10", 15-16 TPI

Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Adjustable two-component handle Plastic protective cover

#### Intended for cutting grooves, dowels, etc.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

Item	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23107	300/12	3D	14-15	SK5	12	48

Item	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23147	250/10	2D	15-16	SK5	12	48



### PIRANHA wood hacksaw



**24117** 500 mm / 20", 11-12 TPI

Blade material: SK5 Reinforced trapezoid blade Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective cover

#### Intended for cutting wooden workpieces of different hardness.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- · Saw blade material: SK5 steel. blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

### PIRANHA all-purpose wood saw















23612 330 mm / 13", 9-10 TPI

Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle Plastic protective case

### *Intended for camping, tourism and garden.*

- · Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- · Saw blade material: SK5 steel. blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle

ľ	ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
\	24117	500/20	3D	11-12	SK5	12	48

ltem	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23612	330/13	3D	9-10	SK5	12	48

### **PIRANHA folding wood saw**



Blade material: SK5
Blade hardness: 48-52 HRc
Cutting edge hardness: 64-66 HRc
Ergonomic two-component handle

### PIRANHA folding wood saw



**23620** 13

130 mm / 5", 8-9 TPI

Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic rubber-coated handle Plastic case

#### Intended for camping and garden.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handle.

### Intended for camping and tourism.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic rubber-coated handle.
- Protective plastic case.

Item	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23616	150/6	3D	9-10	SK5	12	48

Item	Size, mm/inch	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
23620	130/5	3D	8-9	SK5	12	48





### PIRANHA wood hacksaw

24100	450 mm, 3D, 7-8 TPI
24101	500 mm, 3D, 7-8 TPI
24102	550 mm, 3D, 7-8 TPI
24103	450 mm, 3D, 11-12 TPI
24104	500 mm, 3D, 11-12 TPI
24105	550 mm, 3D, 11-12 TPI
24109	400 mm, 3D, 7-8 TPI
24110	400 mm, 3D, 11-12 TPI

oran	Cooke State of the	ACO TO TO A 11 13 TO
ile	24106	450 mm, 3D, 11-12 TPI
	24107	500 mm, 3D, 11-12 TPI
	24108	550 mm, 3D, 11-12 TPI
	24111	400 mm, 3D, 11-12 TPI

### Intended for cutting wooden workpieces.

- Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.
- Saw blade material: SK5 steel, blade hardness: 48-52 HRc, cutting edge hardness: 64-66 HRc.
- Ergonomic two-component handles.
- Plastic protective cover on cutting edge of the blade.

ltem	Size, mm	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
24109	400	3D	7-8	SK5	12	48
24100	450	3D	7-8	SK5	12	48
24101	500	3D	7-8	SK5	12	48
24102	550	3D	7-8	SK5	12	48
24110	400	3D	11-12	SK5	12	48
24103	450	3D	11-12	SK5	12	48
24104	500	3D	11-12	SK5	12	48
24105	550	3D	11-12	SK5	12	48
24111	400	3D	11-12	SK5 + teflon	12	48
24106	450	3D	11-12	SK5 + teflon	12	48
24107	500	3D	11-12	SK5 + teflon	12	48
24108	550	3D	11-12	SK5 + teflon	12	48







24119

550 mm, 3D, 7-8 TPI

Segmented shape of cutting edge Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc Ergonomic two-component handle

#### Intended for cutting large wooden workpieces.

- · Alternation of teeth sizes and shapes for working with wood of different sizes.
- · Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.

- · Saw blade material: SK5 steel. blade hardness: 48-52 HRc,
- cutting edge hardness: 64-66 HRc. · Ergonomic two-component handle.
- Plastic protective cover on cutting edge of the blade.

### **PIRANHA** hacksaw for laminate









**24121** 360 mm, 2D, 15-16 TPI

Blade material: SK5 Blade hardness: 48-52 HRc Cutting edge hardness: 64-66 HRc **Ergonomic handle** 

#### Intended for cutting laminate, small and medium workpieces of wood, chip board, plywood.

- · Efficient for work with wooden composite materials.
- · Teeth tooling with the help of the most innovative technologies ensures even and fast cutting, smooth surface of cut edges.
- Unhardened base of teeth: specially for operations with hardwood.

Blade material: SK5 steel.

blade hardness: 48-52 HRc,

- cutting edge hardness: 64-66 HRc. Eraonomic handle.
- Plastic protective cover on cutting edge of the blade.

Item	Size, mm	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
24119	550	3D	7-8	SK5	12	48

Item	Size, mm	Tooth sharpening	TPI	Material	Small pack, pcs	Big pack, pcs
24121	360	2D	15-16	SK5 + plastic	12	48



### **PIRANHA** chisel









23001	U IIIIII
25003	10 mm
25005	13 mm
25007	16 mm
25009	19 mm

25001 6 mm

 25011
 22 mm

 25013
 25 mm

 25015
 32 mm

 25017
 38 mm

Blade material: 68 CrV Hardness of working part: 58 HRc Ergonomic two-component handle

Intended for mortising and clean holes, grooves, pins, to bevel edges and for other woodwork.

Blade cutting edge sharpened at the angle of 28° and hardened.

Metal back plate makes it possible to use striking tools with this chisel.

- Blade material: 68 CrV steel, hardness of working part: 58 HRc.
- · Ergonomic two-component handle.

I	ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
V	25001	6	68 CrV	6	72
/	25003	10	68 CrV	6	72
	25005	13	68 CrV	6	72
/	25007	16	68 CrV	6	72
	25009	19	68 CrV	6	72
/	25011	22	68 CrV	6	72
	25013	25	68 CrV	6	72
Ĺ	25015	32	68 CrV	6	60
	25017	38	68 CrV	6	60

### Claw bar





Heavy-duty Material: 65 Mn RAIL STEEL Hardness of working part: 44-48 HRc

Intended for pulling nails and also as a lever for lifting and moving heavy cargo.

- Heavy-duty.
- Material: 65 Mn RAIL STEEL, hardness of working part: 44-48 HRc.
- Protective corrosion-resistant coating.

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
25236	$400 \times 29 \times 16$	65 Mn RAIL STEEL	1	10
25237	$600 \times 30 \times 17$	65 Mn RAIL STEEL	1	10
25239	$900 \times 30 \times 17$	65 Mn RAIL STEEL	1	6



# GROSS

Guarantee of Perfection!



### **ERGONOMISCH tape measure**

















Body material: ABS plastic Anti-slipping body coating Rubber-coated hook **Built-in magnet** Side stop

### Intended for precising linear measurements.

- Plastic body with anti-slip coating.
- Rubber-coated hook with small projection fixes the measuring tape on various surfaces.
- Built-in magnet makes it possible to fix the tape on metal surfaces.
- Side stop to stop the measuring tape for a while.
- Packaging: blister card.

Item	Size, $m \times mm$	Body material	Small pack, pcs	Big pack, pcs
31101	3×16	ABS-plastic	6	48
31102	5 × 19	ABS-plastic	6	48
31103	5×25	ABS-plastic	6	48
31104	8 × 25	ABS-plastic	6	48
31105	10 × 25	ABS-plastic	6	48

### **SCHLAGFEST tape measure**













31111	3 m
31112	5 m
21112	5 m

Rubber-coated shockproof body.

nylon coating.

· Measuring tape with double-sided scale and

The rubber-coated hook with small projection

fixes the measuring tape on various surfaces.





Rubber-coated shockproof body Double-sided scale Nylon coating of tape Rubber-coated hook Built-in magnet Side clamp

### **Intended for precising linear measurements.**• Built-in magnet makes it possible to fix the tape on metal surfaces.

- Side stop to stop the measuring tape for a while.
- Packaging: blister card.

### **DOPPELHAKEN tape measure**

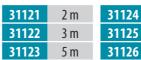














Rubber-coated body Double-sided hook Double-sided scale Nylon coating of tape Automatic fixation

#### Intended for precising linear measurements.

- Rubber-coated body with ergonomic shape.
- Double-sided hook fixes measuring tape on various surfaces.
- Double-sided tape makes it possible to read measurement results much faster.
- Mechanism of measuring tape automatic fixation.
- · Metal measuring tape with nylon coating.
- Packaging: blister card.

Item	Size, $m \times mm$	Small pack, pcs	Big pack, pcs
31111	3×19	6	48
31112	5×19	6	48
31113	5×25	6	48
31114	8×25	6	48
31115	10×25	6	48

Item	Size, m $ imes$ mm	Features	Small pack, pcs	Big pack, pcs
31121	2×16	single-sided hook	6	144
31122	3×16	single-sided hook	6	144
31123	5×19	-	6	96
31124	5 × 25	-	6	96
31125	8×25	-	6	48
31126	10 × 25	_	6	48

5 m

8 m

10 m



### Geodesic tape measure with closed body



31250 10 m 31251 20 m 31252 30 m Closed body Pull-Back mechanism Metal tape with nylon coating Double-sided scale

Intended for measuring ground distances during building and geodesic work.

Closed body.

- Specially developed Pull-Back mechanism with 3x1 gear ratio makes it possible to reel the tape three times faster than any usual tape measure.
- Metal tape with nylon coating.
- Double-sided scale makes it possible to read measurement results much faster.
- Packaging: blister card.

### Geodesic tape measure with open reel













31480

50 m

Open reel
Pull-Back mechanism
Metal tape with thickened nylon coating
Double-sided scale

Intended for measuring ground distances during building and geodesic work.

- Open reel.
- Specially developed Pull-Back mechanism with 3×1 gear ratio makes it possible to reel the tape three times faster than any usual tape measure.
- Metal tape with thickened nylon coating.
- Double-sided scale makes it possible to read measurement results much faster.
- Packaging: blister card.

ltem	Size, $m \times mm$	Tape material	Body	Small pack, pcs	Big pack, pcs
31250	10×13	metal + nylon coating	closed	6	24
31251	20×13	metal + nylon coating	closed	6	24
31252	30×13	metal + nylon coating	closed	6	24

ltem	Size, $m \times mm$	Tape material	Body	Small pack, pcs	Big pack, pcs
31480	50 × 13	metal + nylon coating	open	4	16

### **Aluminum level**











33624	400 mm
33625	600 mm
33628	800 mm
33630	1000 mm

33632	1200 mm
33636	1500 mm
33638	1800 mm
33640	2000 mm

Material of profile: aluminum Bubble tubes: 3 pcs Electronic precision calibration Profile thickness: 2 mm Guarantee: 10 years

### Intended for determining horizontal and vertical positions of surfaces.

- Precision: 0.5 mm/m, 0.029°.
- Three bubble polycarbonate tubes are reliably fixed with plastic inserts.
- Body material: aluminum, profile thickness: 2 mm.

- Each level passes electronic precision calibration.
- Guarantee for bubble tubes: 10 years.
- Two hangers.
- Packaging: paper card, PVC film.

#### Profile Item Size, mm **Body** material Small pack, pcs Big pack, pcs thickness, mm 33624 400 aluminum 40 33625 600 2 aluminum 40 40 33628 800 aluminum 33630 1000 2 aluminum 40 1200 40 33632 aluminum 33636 1500 2 aluminum 10 10 33638 1800 aluminum 33640 2000 aluminum

### Heavy-duty aluminum level













 34332
 1200 mm

 34335
 1500 mm

 34338
 1800 mm

 34340
 2000 mm

Reinforced profile
Profile material: aluminum
Bubble tubes: 3 pcs
Electronic precision calibration
Profile thickness: 2 mm
Guarantee: 10 years

\* Without handles

### Intended for determining horizontal and vertical positions of surfaces.

- Precision: 0.5 mm/m, 0.029°
- Three bubble polycarbonate tubes are reliably fixed with plastic inserts.
- Profile is reinforced with internal longitudinal partition.
- Shock-resistant two-component end caps protect the tool from falling.

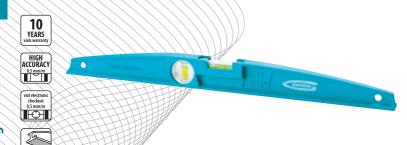
 Body material: aluminum, profile thickness: 2 mm.

- Each level passes electronic precision calibration.
- Guarantee for bubble tubes: 10 years.
- Two hangers, ergonomic handles.
  Packaging: paper card, PVC film.
- r ackaging, paper cara

ltem	Size, mm	Profile thickness, mm	Body material	Small pack, pcs	Big pack, pcs
34324	400	2	aluminum	1	10
34326	600	2	aluminum	1	10
34328	800	2	aluminum	1	10
34330	1000	2	aluminum	1	10
34332	1200	2	aluminum	1	10
34335	1500	2	aluminum	1	10
34338	1800	2	aluminum	1	10
34340	2000	2	aluminum	1	10



### **Cast level**



34914 400 mm 34915 500 mm 600 mm 34916

Cast body Profile material: aluminum allov Bubble tubes: 2 pcs **Electronic precision calibration** SHOCKPROOF system Guarantee: 10 years

Intended for determining horizontal and vertical positions of surfaces and to level wall and floor tile, stone blocks and bricks.

- Precision: 0.5 mm/m, 0.029°.
- Two bubble polycarbonate tubes.
- Trapezoid-shape profile.
- Two hangers.

- · Equipped with the SHOCKPROOF system, which allows you to «hammer» tile, using a level and a rubber mallet.
- Cast body of aluminum alloy.
- Each level passes electronic precision calibration.
- Guarantee for bubble tubes: 10 years.
- · Packaging: paper card, PVC film.

#### Profile Item **Body** material Small pack, pcs Big pack, pcs thickness, mm 34914 400 aluminum allov 10 500 34915 2 aluminum alloy 10 34916 600 aluminum alloy

### **KOMPAKT 70 laser range finder**















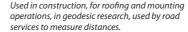






**38001** 0,05-70 m

Pythagoras function Memory function Calculation of area, volume, height, length Display light Timer



- · Measurement precision: ±1.5 mm, range: 0.05 to 70 m, measurement delay: 3 to 15 seconds.
- · Calculates area, volume, height and length, adds and subtracts.

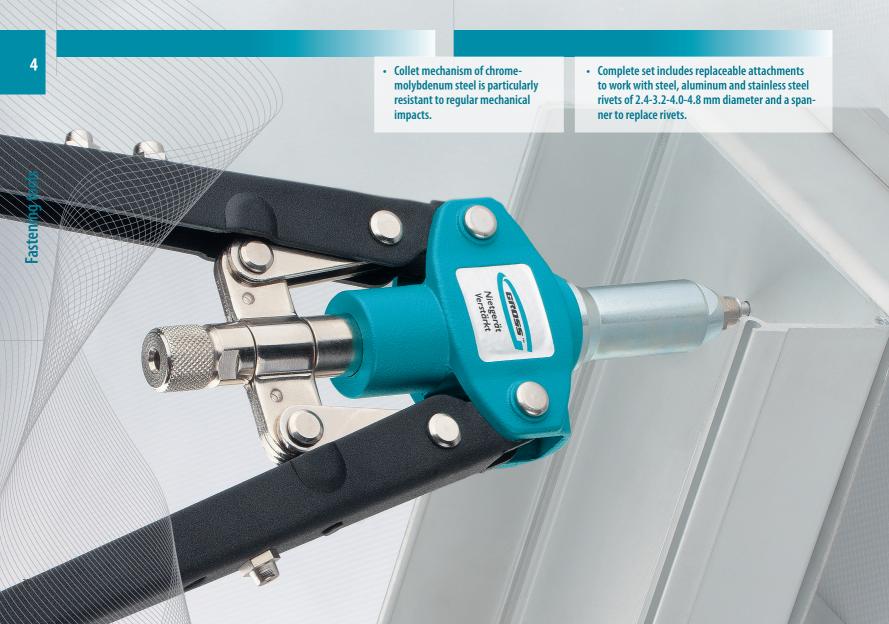




- Measurement based on set points on a remote object (Pythagoras function).
- · Memory function to store 20 latest measurement results.
- Display backlight enables you to use range finder at niaht.
- · Body material: ABS plastic.
- · Packaging: silicone cover, cover with hanger.

ltem	Range, m	Measurement precision, mm	Functions	Body material	Small pack, pcs	Big pack, pcs
38001	0,05-70	± 1,5	pythagoras function memory function calculation of area, volume, height, length display light timer	ABS-plastic	1	20





### **Two-handed riveter**









400 mm



Rivets diameter: 2.4-3.2-4.0-4.8 mm Replaceable attachments: 4 pcs Lever mechanism Two-component handles Spanner to change attachments

Intended for fastening sheet metal, different thin-wall structures, metal profiles and other materials

- · Collet mechanism of chrome-molybdenum steel (SCM 415) is particularly resistant to regular mechanical impacts.
- Complete set includes replaceable attachments to work with steel, aluminum and stainless steel rivets of 2.4-3.2-4.0-4.8 mm diameter and a spanner to replace rivets.
- · Packaging: cardboard box.

### Heavy-duty two-handed riveter

















510 mm 40409



Heavy-duty Rivets diameter: 3.2-4.0-4.8-6.0-6.4 mm Replaceable attachments: 5 pcs Lever mechanism Two-component handles Spanner to change attachments

Intended for fastening sheet metal, various thin-walled structures, metal profiles and other materials

- · Collet mechanism of chrome-molybdenum steel (SCM 415) is particularly resistant to regular mechanical impacts.
- Complete set includes replaceable attachments to work with steel, aluminum and stainless steel rivets of 3.2-4.0-4.8-6.0-6.4mm diameter and a spanner to replace rivets.
- · Packaging: cardboard box.

Item	Size, mm	Rivet diameter, mm	Features	Small pack, pcs	Big pack, pcs
40407	400	2,4-3,2-4,0-4,8	ergonomic handles lever mechanism	1	12

Item	Size, mm	Rivet diameter, mm	Features	Small pack, pcs	Big pack, pcs
40409	510	3,2-4,0-4,8-6,0-6,4	ergonomic handles lever mechanism	1	6



#### **Cast riveter**



Attachments: 4 pcs Ergonomic handles of thermoplastic rubber Spanner to change attachments

2,4-4,8 mm

40401

Intended for fastening sheet metal, different thin-wall structures and metal profiles.

- Completed with four attachments for various river diameters.
- Item 40401 is used with aluminum rivets: 2.4-3.2-4.0-4.8 mm, steel rivets: 2.4-4.8 mm, stainless steel rivets: 2.4-3.2 mm.
- Item 40403 is used with 2.4-4.8 mm rivets made of steel (including stainless steel) and aluminum.
- Ergonomic handles of thermoplastic rubber.
- Spanner to change attachments.
- Packaging: double blister card.

**40403** 2,4-4,8 mm

#### **Cast rotating riveter**











**40405** 2,4-4,8 mm



Rotating head 0-360° Attachments: 4 pcs Ergonomic handles of thermoplastic rubber Spanner to change attachments

## Intended for fastening sheet metal, different thin-wall structures and metal profiles.

- Completed with four attachments for various rivet diameters.
- Used with rivets of aluminum: 2.4-4.8 mm, steel: 2.4-3.2 mm, stainless steel: 2.4 mm.
- Rotating riveter head (360°) makes it possible to work in hard-to-reach places.
- Ergonomic handles of thermoplastic rubber.
- Spanner to change attachments.
- Packaging: double blister card.

40401 - 2,4-4,8 1 24 40403 heavy-duty 2,4-4,8 1 24	ltem	Features	Rivets, mm	Small pack, pcs	Big pack, pcs
40403 heavy-duty 2.4-4.8 1 24	40401	-	2,4-4,8	1	24
	40403	heavy-duty	2,4-4,8	1	24

ltem	Features	Rivets, mm	Small pack, pcs	Big pack, pcs
40405	rotating 0-360°	2,4-4,8	1	24

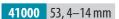
#### Furniture staple gun











Smooth regulation of force power Body material: steel with protective cover (chrome)

Quick staple loading mechanism Window for controlling expendable materials Rubberized handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for furniture assembling, carpets laying as well as fixing hit insulation, upholster furniture and picture-framing work.



- Regulation of force power.
- Window for controlling expendable materials.
- Rubberized handle.
- · Package: blister.

#### Aluminum furniture staple gun







**41001** 13, 53, 300, 6-10 mm



Body material: aluminum alloy Quick staple loading mechanism Window to control expendable materials Ergonomic handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for assembling furniture, laying carpets as well as to fix heat insulation, upholster furniture and for picture-framing work.

 Used with staples: 53 type: 6 to 10 mm, 13 type: 6 to 10 mm, 300 type (nails): 10 mm.

- Equipped with a quick staple loading mechanism and a window to control expendable materials.
- Body material: strong aluminum alloy.
- · Ergonomic handle.
- Packaging: double blister.

ltem	Staple size	Body material	Small pack, pcs	Big pack, pcs
41000	53, 4-14	сталь	12	24

		///////////////////////////////////////	<u>/////////////////////////////////////</u>	//////////////////////////////////////
ltem	Staple type	Body material	Small pack, pcs	Big pack, pcs
41001	13, 53, 300, 6-10 mm	aluminum alloy	12	24



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#### Aluminum furniture staple gun



41002

13, 53, 300, 6-16 mm

Impact force adjustment
Body material: aluminum alloy
Quick staple loading mechanism
Handle fixation mechanism
Window to control expendable materials
Ergonomic handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for assembling furniture, laying carpets as well as to fix heat insulation, upholster furniture and for picture-framing work.

- Used with staples: 53 type: 6 to 16 mm, 13 type: 6 to 16 mm, 300 type (nails): 16 mm.
- Equipped with impact force adjustment for working with soft and hard materials.

 Special tip makes it possible to work in hard-toreach places.

- Window to control expendable materials.
- Handle fixation mechanism excludes possibility of accidental activation.
- Body material: strong aluminum alloy.
- Ergonomic handle.
- · Packaging: double blister.

#### Plastic furniture staple gun











41003

13, 53, 300, 6-16 mm

Impact force adjustment Body material: plastic Quick staple loading mechanism Handle fixation mechanism Ergonomic handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for assembling furniture, laying carpets as well as to fix heat insulation, upholster furniture and for picture-framing work.

 Used with staples: 53 type: 6 to 16 mm, 13 type: 6 to 16 mm, 300 type (nails): 16 mm.

- Equipped with impact force adjustment for working with soft and hard materials.
- Special tip makes it possible to work in hard-toreach places.
   Hadde fixation mechanism evaluates possibility.
- Handle fixation mechanism excludes possibility of accidental activation.
- · Made of high-impact molded plastic.
- · Ergonomic handle.
- · Packaging: double blister.

ltem	Staple type	Body material	Small pack, pcs	Big pack, pcs	
41002	13, 53, 300, 6-16 mm	aluminum alloy	12	24	

Item	Staple type	Body material	Small pack, pcs	Big pack, pcs
41003	13, 53, 300, 6-16 mm	plastic	12	24

#### **UNIVERSELL 4 furniture staple gun**











41005

36, 53, 300, 500, 8-14 mm

Multipurpose Impact force adjustment Body material: plastic Quick staple loading mechanism Window to control expendable materials Ergonomic two-component handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for assembling furniture, laying carpets as well as to fix heat insulation, upholster furniture and for picture-framing work.

 Multipurpose mechanism enables using 4 types of staples: 36 (arched shape), 53 (rectangular shape), 300 (nails), 500 (pins).

- Staple length from 8 to 14 mm.
- Suitable for working in hard-to-reach places.
- Window to control expendable materials.
- Impact force adjustment for working with soft and hard materials.
- Body material: high-impact molded plastic.
- Ergonomic two-component handle.
- Packaging: double blister.

#### **ALUMINUM 140 furniture staple gun**











41007

140, 300, 6-16 mm

Impact adjustment
Case material: aluminum alloy
Quick staple loading mechanism
Window to control expendable materials
Ergonomic two-component handle

Intended for quick fastening of sheet materials (fiberboard, plywood, chip board, DVP, film, heat insulation) to their base.

Perfect for assembling furniture, laying carpets as well as to fix heat insulation, upholster furniture and for picture-framing work.

- Used with staples: 140 type: 6 to 14 mm, 300 type (nails): 16 mm.
- · Window to control expendable materials.
- Impact force adjustment for working with soft and hard materials.
- · Body material: strong aluminum alloy.
- Ergonomic two-component handle.

ltem	Features	Staple type	Body material	Small pack, pcs	Big pack, pcs
41005	multipurpose	36, 53, 300, 500, 8-14 mm	plastic	12	24

Item	Staple type	Body material	Small pack, pcs	Big pack, pcs
41007	140, 300, 6-16 mm	aluminum alloy	12	24



#### Reinforced staples for furniture staple gun, type 53





Intended for fastening of sheet materials (carton, fabric, plywood, heat insulation) to wood

Staple type 53

foundation.

(width 11.4mm thickness 0.75mm).



Increased hardness and ruggedness index under tension Zinc anticorrosion cover Double-sided blister with multiplexing locks

- 1000 pcs in package.
- Zinc cover protects from corrosion.
- · Made from high quality steel.
- Increased hardness and ruggedness index under tension allow to use it with hardwood.
- · Package: blister.

ltem	Туре	Height, mm	Thickness, mm	Width, mm	Quantity in blister	Small pack, pcs	Big back, pcs
41706	53	6	0,75	11,4	1000	60	120
41708	53	8	0,75	11,4	1000	60	120
41710	53	10	0,75	11,4	1000	60	120
41712	53	12	0,75	11,4	1000	60	120
41714	53	14	0.75	11.4	1000	60	120

#### Reinforced staples for furniture staple gun, type 140

140 type





Increased hardness and ruggedness index under tension Zinc anticorrosion cover Double-sided blister with multiplexing locks

Intended for fastening of sheet materials (carton, fabric, plywood, heat insulation) to wood foundation.

- Staple type 53 (width 11.4mm thickness 0.75mm)
- 1000 pcs in package
- Zinc cover protects from corrosion

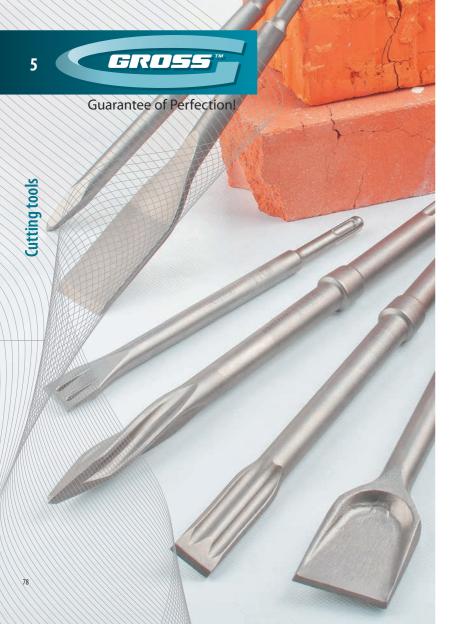
- · Made from high quality steel
- Increased hardness and ruggedness index under tension allow to use it with hardwood
- · Package blister.

Item	Туре	Height, mm	Thickness, mm	Width, mm	Quantity in blister	Small pack, pcs	Big back, pcs
41738	140	8	1,2	10,5	1250	5	60
41740	140	10	1,2	10,5	1250	5	60
41742	140	12	1,2	10,5	1250	5	60

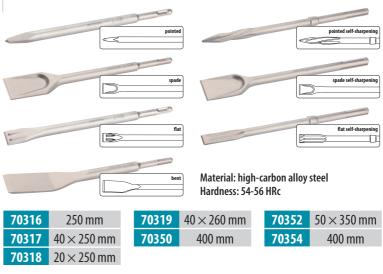


Guarantee of Perfection!





#### Chisel



Intended for using on perforators with SDS-max or SDS-plus fits – for slotting, dismounting and adjusting work in masonry or concrete.

- Cutting part is made by the hot plastic deforma-tion method and possesses densified metal structure.
- Maximum possible efficiency and long service
- High degree of resistance to runout and breaking.Material: high-carbon alloy steel,
- hardness: 54-56 HRc.

ltem	Size, mm	Features
70316	250	pointed chisel PRO, SDS-plus
70317	$40 \times 250$	spade chisel PRO, SDS-plus
70318	20×250	flat chisel PRO, SDS-plus
70319	$40 \times 260$	bent chisel SDS-plus
70350	400	pointed self-sharpening chisel, Rtec, SDS-max
70352	$50 \times 350$	spade self-sharpening chisel, PRO, SDS-max
70354	400	flat self-sharpening chisel, Rtec, SDS-max



## SDS-plus masonry drill bit



## Intended to drilling masonry, common and reinforced concrete.

- For perforators with SDS-plus chuck.
- Double helix.

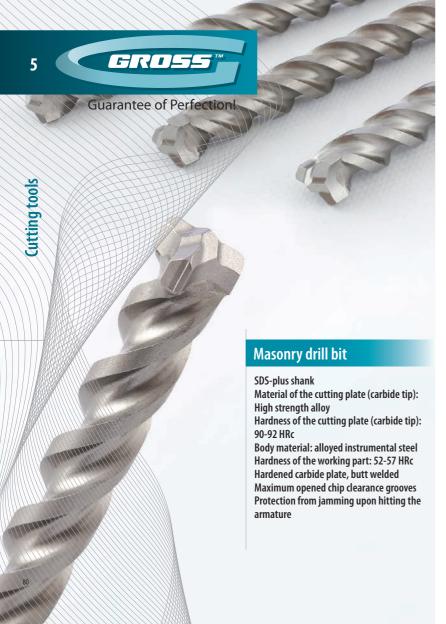
- Hard tip material: hard alloy, tip hardness: 90-92 HRc.
- Body material: alloy tool steel, hardness of working part: 45-57 HRc.

ltem	Drill bit diameter, mm	Drill bit length, mm	Spiral part length, mm	Small package, pcs	Big package, pcs
70655	5	110	60	1	300
70656	6	110	60	1	300
70657	8	110	60	1	250
70658	10	110	60	1	200
70659	5	160	100	1	250
70660	6	160	100	1	250
70661	8	160	100	1	200
70662	10	160	100	1	150
70663	12	160	100	1	100
70664	14	160	100	1	100
70666	6	210	150	1	200
70668	8	210	150	1	150
70670	10	210	150	1	100
70672	12	210	150	1	100
70674	14	210	150	1	100
70679	8	300	250	1	100
70680	10	300	250	1	100
70682	12	300	250	1	70
70684	14	300	250	1	60
70686	16	300	250	1	60
70687	18	300	250	1	40
70688	20	300	250	1	40
70692	10	450	400	1	60
70693	12	450	400	1	50
70694	14	450	400	1	40
70695	16	450	400	1	40
70696	18	450	400	1	25
70697	20	450	400	1	25

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Double helix SDS-plus shank Material of tip: hard alloy Tip hardness: 90-92 HRc Body material: alloy tool steel Hardness of working part: 45-57 HRc



## Masonry drill bit DREI SPITZEN, SDS-plus



Intended for drilling brick masonry, not reinforced and reinforced concrete.

- For perforators with SDS-plus chuck.
- Material of the cutting plate (carbide tip): high strength hard alloy, hardness of the carbide tip – 90-92 HRc.
- Body material: alloyed instrumental steel, hardness of the working part is 52-57 HRc.
- Automatic soldering.
- Package: plastic hang card.

Item	Drill bit diameter, mm	Drill bit length, mm	Spiral part length, mm	Small package, pcs	Big package, pcs
70731	5	115	65	1	200
70732	6	115	65	1	200
70733	8	115	65	1	200
70734	10	115	65	1	200
70736	5	165	115	1	150
70737	6	165	115	1	150
70738	8	165	115	1	150
70739	10	165	115	1	150
70740	12	165	115	1	100
70741	14	165	115	1	100
70743	5	215	165	1	100
70744	6	215	165	1	150
70745	8	215	165	1	150
70746	10	215	165	1	150
70747	12	215	165	1	100
70748	14	215	165	1	100
70755	6	315	265	1	50
70756	8	315	265	1	50
70757	10	315	265	1	50
70758	12	315	265	1	50



## Spiral drill bit for metal, HSS, 338W







Intended for drilling of alloyed and not alloyed steel, stainless steel, carbon steel and nonferrous metal.

- Cylindrical shank.
- High durability due to increased thickness of the core.
- High thermal- and wear-resistance.
- Effective chip removal, drilling without preliminary punching.
- Material: HSS-Co, hardness 63-66 HRc, protective oil coating.
- Package: PVC bag.

Item	Drill bit diameter, mm	Material	Hardness, HRc	Components, pcs	Small package, pcs	Big package, pcs
71602	2,0	HSS-M2	61-63	2	2	500
71603	2,5	HSS-M2	61-63	2	2	500
71604	3,0	HSS-M2	61-63	2	2	500
71606	3,5	HSS-M2	61-63	2	2	300
71607	4,0	HSS-M2	61-63	1	1	300
71609	4,5	HSS-M2	61-63	1	1	300
71611	5,0	HSS-M2	61-63	1	1	300
71613	5,5	HSS-M2	61-63	1	1	200
71614	6,0	HSS-M2	61-63	1	1	200
71615	6,5	HSS-M2	61-63	1	1	200
71616	7,0	HSS-M2	61-63	1	1	200
71617	7,5	HSS-M2	61-63	1	1	150
71618	8,0	HSS-M2	61-63	1	1	150
71619	8,5	HSS-M2	61-63	1	1	150
71620	9,0	HSS-M2	61-63	1	1	100
71622	10,0	HSS-M2	61-63	1	1	100
71627	12,0	HSS-M2	61-63	1	1	50
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Hardness of the working part: 61-63 HRc Increased lead angle of the chip clearance groove

Metal drill bit

Spiral Material: HSS-M2 Cylindrical shank

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## Metal drill bit

72303	2,0 mm	72324	6,5 mm
72304	2,5 mm	72328	7,0 mm
72306	3,0 mm	72331	7,5 mm
72309	3,5 mm	72333	8,0 mm
72312	4,0 mm	72336	8,5 mm
72314	4,5 mm	72338	9,0 mm
72317	5,0 mm	72343	10,0 mm
72319	5,5 mm	72354	12,0 mm
72322	6,0 mm		







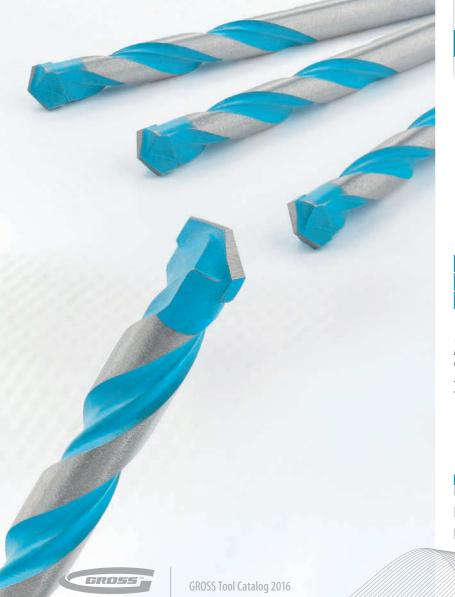


Intended for drilling alloy and non-alloy steel, stainless steel, cast iron and nonferrous metals.

- Round shank.
- High durability due to increased thickness of the core.
- High thermal and wear-resistance.

- Effective chip removal, drilling without preliminary punching.
- Material: HSS-Co, hardness: 63-66 HRc, protective oil coating.
- Package: PVC bag.

Item	Size, mm	Material	Hardness, HRc	Small pack, pcs	Big pack, pcs
72303	2,0	HSS-Co	63-66	2	500
72304	2,5	HSS-Co	63-66	2	500
72306	3,0	HSS-Co	63-66	2	500
72309	3,5	HSS-Co	63-66	2	300
72312	4,0	HSS-Co	63-66	1	300
72314	4,5	HSS-Co	63-66	1	300
72317	5,0	HSS-Co	63-66	1	300
72319	5,5	HSS-Co	63-66	1	200
72322	6,0	HSS-Co	63-66	1	200
72324	6,5	HSS-Co	63-66	1	200
72328	7,0	HSS-Co	63-66	1	200
72331	7,5	HSS-Co	63-66	1	150
72333	8,0	HSS-Co	63-66	1	150
72336	8,5	HSS-Co	63-66	1	150
72338	9,0	HSS-Co	63-66	1	100
72343	10,0	HSS-Co	63-66	1	100
72354	12,0	HSS-Co	63-66	1	50



## **MULTICONSTRUCTION PRO concrete drill bit**



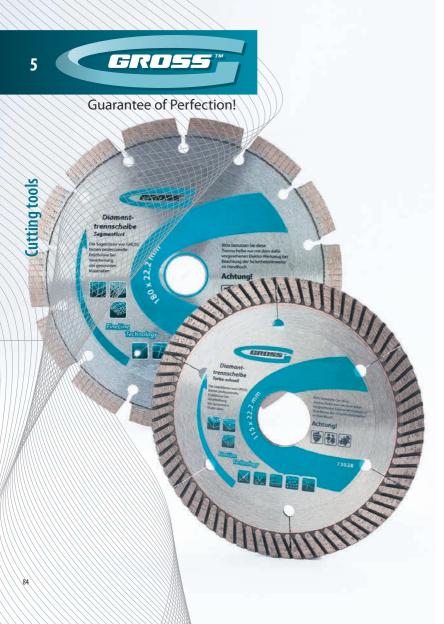
70615	5 mm
70616	6 mm
70618	8 mm

**70620** 10 mm **70622** 12 mm Multipurpose Round shank Material: alloy tool steel

## Intended for drilling all types of materials (metal, concrete, wood).

- Round shank.
- Innovative deep helix for quick removal of drilling dust and chips.
- Special sharpening ensures high performance.
- Material: alloy tool steel.
- Package: hanging card.

ltem	Size, mm	Material	Small pack, pcs	Big pack, pcs
70615	5	alloy tool steel	1	500
70616	6	alloy tool steel	1	400
70618	8	alloy tool steel	1	350
70620	10	alloy tool steel	1	250
70622	12	alloy tool steel	1	150



## Segmented diamond blade















73002

73003

73004





150 mm





Laser welding of segments Dry cutting Blade body material: tool steel

Intended for using on angle grinders for cutting stone, concrete, brick, etc.

- Dry cutting.
- High-quality synthetic diamond.Metallic bond with high content of heat-resistant chemical elements.
- Laser welding of cutting segments provides reliable connection with the blade.
- · Cutting segment height increased up to 10 mm.
- Blade body material: tool steel.

ltem	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
73002	115 × 22,2	tool steel	laser welding of segments	1	100
73003	$125 \times 22,2$	tool steel	laser welding of segments	1	100
73004	$150 \times 22,2$	tool steel	laser welding of segments	1	50
73006	$180 \times 22,2$	tool steel	laser welding of segments	1	50
73008	$230 \times 22,2$	tool steel	laser welding of segments	1	25

#### Segmented diamond blade







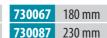














Laser welding of the turbo segments Dry cutting

Intended for using with angle grinders for cutting stone, concrete, brick, etc.

- Dry cutting.
- High-quality synthetic diamond.
- Improved slurry removal.
- Metallic bond with high consistency of heatresistant chemical elements.
- Laser welding of cutting segments provides reliable connection with the blade.
- Cutting segment height is increased up to 10 mm.
- Package: carton envelope.

#### Segmented diamond blade

















/3011	115 mm
73012	125 mm
73013	150 mm





Ordered arrangement of diamonds Laser welding of segments Dry cutting Blade body material: tool steel

Intended for using on angle grinders for cutting stone, concrete, brick, etc.

- Dry cutting.
- · High-quality synthetic diamond.
- The ARIX Diamond Arrangement Technology completely excludes «dead zones» for cutting segments, increases cutting efficiency and quality.
- Metallic bond with high content of heat-resistant chemical elements.
- Laser welding of cutting segments provides reliable connection with the blade.
- Cutting segment height increased up to 10 mm.
- Blade body material: tool steel.
- Package: carton envelope.

Item	Size, mm	Body material	Specifications	Small package, pcs	Big package, pcs
730027	115 × 22,2	tool steel	segment laser welding	1	100
730037	$125 \times 22,2$	tool steel	segment laser welding	1	100
730067	$180 \times 22,2$	tool steel	segment laser welding	1	50
730087	$230 \times 22,2$	tool steel	segment laser welding	1	25

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ltem	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
73011	$115 \times 22,2$	tool steel	ordered diamond arrangement	1	100
73012	$125 \times 22,2$	tool steel	ordered diamond arrangement	1	100
73013	$150 \times 22,2$	tool steel	ordered diamond arrangement	1	50
73014	$180 \times 22,2$	tool steel	ordered diamond arrangement	1	50
73017	$230 \times 22,2$	tool steel	ordered diamond arrangement	1	25

#### Turbo segmented diamond blade

















73032	180 mm
73034	230 mm

Turbo segmented Dry and wet cutting blade body material: tool steel

Intended for using on angle grinders to cut stone, concrete, reinforced concrete, brick, etc.

- Dry and wet cutting.
- Diamond grade of same size provides high wear-resistance.
- Cutting segment height increased up to 10 mm.
- · Made by hot pressing, which provides long operational life of blade and high cutting speed.
- Blade body material: tool steel.

#### **Turbo diamond blade**













730287

730297









Turbo Dry cutting

Intended for using with angle grinders to cut stone, concrete, reinforced concrete, brick, etc.

- · Shape of the diamond layer is perfectly suitable for cutting reinforced concrete.
- Diamond grade of the equal size provides high wear-resistance.
- · Metallic bond with high consistency of heatresistant chemical elements.
- · Cutting segment height is increased up to 10 mm.
- Made by hot pressing, which provides long operational life of the blade and high cutting
- Package: carton envelope.

Item	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
73028	115 × 22,2	tool steel	turbo-segmented	1	100
73029	$125 \times 22,2$	tool steel	turbo-segmented	1	100
73031	$150 \times 22,2$	tool steel	turbo-segmented	1	50
73032	$180 \times 22,2$	tool steel	turbo-segmented	1	50
73034	$230 \times 22,2$	tool steel	turbo-segmented	1	25

Item	Size, mm	Body material	Specifications	Small package, pcs	Big package, pcs
730287	115 × 22,2	tool steel	turbo	1	100
730297	$125 \times 22,2$	tool steel	turbo	1	100
730327	$150 \times 22,2$	tool steel	turbo	1	50
730347	$180 \times 22,2$	tool steel	turbo	1	25

#### **Turbo diamond blade**















73023	180 mm
73026	230 mm

Dry cutting Blade body material: tool steel

Turbo with laser perforation

#### Intended for using on angle grinders for cutting stone, concrete, brick, etc.

- · Drv cuttina.
- · Shape of diamond layer perfectly fits for cutting reinforced concrete.
- · Diamond grade of equal size provides wearresistance to the blade.
- · Metallic bond with high content of heat resistant chemical elements.
- · Cutting segment height increased up to 10 mm.
- Made by hot pressing, which ensures long operational life of blade and high cutting speed.
- Blade body material: tool steel.
- Package: carton envelope.

#### **Continuous diamond blade**













73036	115 mm
73038	125 mm
73039	150 mm





Continuous with laser perforation Wet cutting Blade body material: tool steel

Intended for using on angle grinders to cut marble, granite, ceramic granite, ceramic tile.

- · Wet cutting.
- · Laser perforation protects the blade from overheating, deformation and significantly reduces noise level.
- Cutting segment height increased up to 10 mm.
- Blade body material tool steel.
- Package: carton envelope.

ltem	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
73019	$115 \times 22,2$	tool steel	turbo with laser perforation	1	100
73021	$125 \times 22,2$	tool steel	turbo with laser perforation	1	100
73022	$150 \times 22,2$	tool steel	turbo with laser perforation	1	50
73023	$180 \times 22,2$	tool steel	turbo with laser perforation	1	50
73026	$230 \times 22,2$	tool steel	turbo with laser perforation	1	25

			///////////////////////////////////////	///////////////////////////////////////	<i>/////////////////////////////////////</i>
ltem	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
73036	$115 \times 22,2$	tool steel	continuous with laser perforation	1	100
73038	$125 \times 22,2$	tool steel	continuous with laser perforation	1	100
73039	$150 \times 22,2$	tool steel	continuous with laser perforation	1	50
73041	$180 \times 22,2$	tool steel	continuous with laser perforation	1	50
73049	$230 \times 22,2$	tool steel	continuous with laser perforation	1	25



#### **Continuous diamond blade**















150 mm 730417 730497 230 mm



Continuous Wet cutting

#### Intended for using with angle grinders to cut marble, granite, ceramic granite, ceramic tile.

- Metallic bond with high consistency of heatresistant chemical elements.
- Cutting segment height is increased up to 10 mm.
- Made by hot pressing, which provides long operational life of the blade and high cutting speed.
- Package: carton envelope.

#### **Continuous diamond blade**















73052

73053









Continuous thin Wet cutting

#### Intended for using with angle grinders to cut marble, granite, ceramic granite, ceramic tile.

125 mm

- · Wet cutting.
- · Small cutting width.
- · Metallic bond with high consistency of heatresistant chemical elements.
- Cutting segment height is increased up to 10 mm.
- · Plates for increasing hardness.
- Made by hot pressing, which provides long operational life of the blade and high cutting speed.
- Package: carton envelope.

ltem	Size, mm	Body material	Specifications	Small package, pcs	Big package, pcs
730367	115 × 22,2	tool steel	continuous	1	100
730387	$125 \times 22,2$	tool steel	continuous	1	100
730417	$180 \times 22,2$	tool steel	continuous	1	50
730497	230 × 22,2	tool steel	continuous	1	25

ltem	Size, mm	Body material	Specifications	Small package, pcs	Big package, pcs
730367	$115 \times 22,2$	tool steel	thin	1	100
730387	$125 \times 22,2$	tool steel	thin	1	100
730417	$180 \times 22,2$	tool steel	thin	1	50
730497	$230 \times 22,2$	tool steel	thin	1	25



## **Wood-cutting blade**

#### Transverse-longitudinal cutting

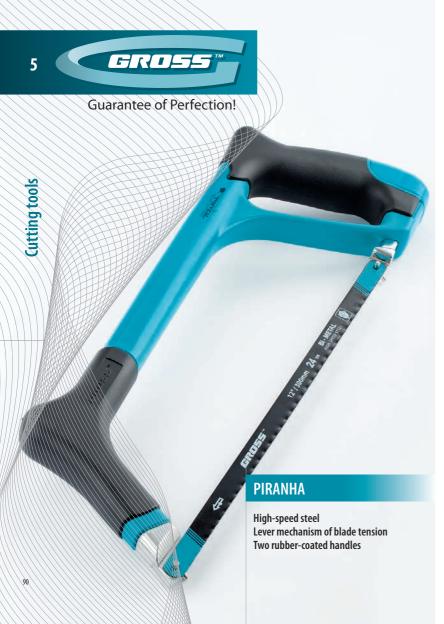
Intended for using with circular saws for longitudinal and transverse cutting of various types of wood, plywood, chip board.

- · Increased tooth size.
- Tooth shape: ATB, tooth material: Ceratizit (wear-resistant alloy), hardness: 92 HRc.
- Silver as part of solder alloy increases durability of connection and resistance to offsetting.
- Body material: tool steel.



Item	Size, mm	Body material	Number of teeth	Small pack, pcs	Big pack, pcs
73301	130 × 20/16	Steel HRc42	24	1	25
73304	$150 \times 20/16$	Steel HRc42	24	1	25
73307	$160 \times 20/16$	Steel HRc42	24	1	25
73308	$160 \times 20/16$	Steel HRc42	36	1	25
73309	$160 \times 20/16$	Steel HRc42	48	1	25
73311	$165 \times 20/16$	Steel HRc42	24	1	25
73313	185 × 20/16	Steel HRc42	24	1	25
73315	$190 \times 20/16$	Steel HRc42	24	1	25
73317	190 × 20/16	Steel HRc42	48	1	25
73318	$190 \times 30$	Steel HRc42	24	1	25
73319	190 × 30	Steel HRc42	36	1	25
73320	$190 \times 30$	Steel HRc42	48	1	25
73322	$200 \times 32/30$	Steel HRc42	24	1	25
73323	$200 \times 32/30$	Steel HRc42	36	1	25
73324	$200 \times 32/30$	Steel HRc42	48	1	25
73326	$210 \times 32/30$	Steel HRc42	24	1	25
73328	$210 \times 32/30$	Steel HRc42	48	1	25
73329	$216 \times 32/30$	Steel HRc42	24	1	25
73331	$230 \times 32/30$	Steel HRc42	24	1	25
73333	$230 \times 32/30$	Steel HRc42	48	1	25
73335	$250 \times 32/30$	Steel HRc42	24	1	25
73337	$250 \times 32/30$	Steel HRc42	48	1	25
73340	$255 \times 32/30$	Steel HRc42	72	1	25
73342	$300 \times 32$	Steel HRc42	48	1	10
73344	$305 \times 30$	Steel HRc42	48	1	10
73346	305 × 30	Steel HRc42	96	1	10





## **PIRANHA hacksaw**













**77604** 300 mm

High-speed steel Lever mechanism of blade tension Two rubber-coated handles

#### Intended for mechanical work.

- Hacksaw frame design allows you to mount blade at 45° and 90° angles.
- · Lever mechanism provides effective blade tension for direct, precise and careful cutting.
- Bimetallic blade with teeth made of high-speed
- Blade tension: 150 KGF/30000 PSI.
- Frame of high-density polymer with steel core.
- Two rubber-coated handles.

ltem	Size, mm	Body material	Features	Small pack, pcs	Big pack, pcs
77604	300	high-speed steel	lever blade tensioner	6	24

#### **PIRANHA** hacksaw













**77600** 300 mm

High-speed steel Lever-screw mechanism Frame with compartment for blades Two rubber-coated handles

#### Intended for mechanical work.

- Lever-screw mechanism provides effective blade tension for direct, precise and careful cutting.
- · Hacksaw frame design allows you to mount blade at 45° and 90° angles.
- Bimetallic blade with teeth made of high-speed steel.
- Blade tension: 170 KGF/34000 PSI.
- Equipped with a closing compartment for spare blades inside the frame.
- Two rubber-coated handles.

#### **PIRANHA hacksaw**













**77602** 300 mm

High-speed steel Lever-screw mechanism Three-component metal-plastic frame Two rubber-coated handles

#### Intended for mechanical work.

- Screw mechanism in the lower part of handle provides effective blade tension for direct, precise and careful cutting.
- Hacksaw frame design allows you to mount blade at 45° and 90° angles.
- Bimetallic blade with teeth made of high-speed steel.
- Blade tension 150 KGF/30000 PSI.
- Solid frame made of high-density polymer.
- Two rubber-coated handles.

Item	Size, mm	Body material	Handle	Small pack, pcs	Big pack, pcs
77600	300	high-speed steel	rubber-coated	6	24

three-component					
7/602 300 nign-speed steel metal-plastic frame 6	24	6	high-speed steel	300	77602





# **Cutting tools**

#### **Hacksaw blade**























77728

77729

77730

Multi-purpose

Wavy blade setting

Base material: spring steel

BIM



300 mm, 32 TPI

300 mm, 24 TPI

300 mm, 18 TPI













Bi-Metall

Cobalt-8%





77718	300 mm, 32 TPI
77719	300 mm, 24 TPI
77720	300 mm, 18 TPI

Wavy blade setting Perfect geometry of cutting teeth Blade material: carbon steel Working part hardness: 62 HRc

Intended for cutting structural steel and nonferrous metals.

· Blade material - carbon steel, working part hardness: 62 HRc.

· Blade material: high-speed steel, working part hardness: 64-66 HRc.

Intended for cutting high-resistance steel and alloys, stainless steel.

**Hacksaw blade** 















77723	300 mm, 32 TPI
77724	300 mm, 24 TPI
77725	300 mm, 18 TPI

Aggressive blade setting (every second tooth) Perfect geometry of cutting teeth Blade material: high-speed steel Working part hardness: 64 HRc

· Base material: spring steel, tooth material: high-speed steel M2, cutting edge hardness: 65-67 HRc.

Teeth material: high-speed steel M2

Cutting edge hardness: 65-67 HRc

**VARIOZAHN 77731** 300 mm, 20/24 TPI

Flexible blade (8% cobalt content) Blade material: HSS-Bi-HARD Cutting edge hardness: 66-67 HRc

Intended for treating V2A steel. Can be used

Intended for cutting all types of steel and alloys (multi-purpose).

as multi-purpose blade. · Very flexible high-performance blade with 8%

of cobalt. Blade material: HSS-Bi-HARD. cutting edge hardness: 66-67 HRc.

ltem	Size, mm	Tooth pitch, TPI	Material	Packing set, pcs	Small pack, pcs	Big pack, pcs
77718	300	32	carbon steel	2	25	100
77719	300	24	carbon steel	2	25	100
77720	300	18	carbon steel	2	25	100
77723	30	32	high-speed steel	2	25	100
77724	300	24	high-speed steel	2	25	100
77725	300	18	high-speed steel	2	25	100

ltem	Size, mm	Tooth pitch, TPI	Material	Packing set, pcs	Small pack, pcs	Big pack, pcs
77728	300	32	spring steel	2	25	100
77729	300	24	spring steel	2	25	100
77730	300	18	spring steel	2	25	100
77731	300	20/24	bi-metall	2	25	100



#### 78252 multi-purpose







figure cuts.

· Package: blister.

78253 wood



*Intended for working with wooden materials.* 

Intended for working with wooden materials.

Enables you to make straight and reverse cuts.

Enables you to make straight, reverse and





Intended for working with wood, metal, decorative fiberboards. Enables you to make straight, reverse and figure cuts.

Rackage: blister



Intended for working with wooden materials. Enables you to make clear and quick cuts.

Package: blister.

Material Hardness, Packing set, Small pack, Big pack, Blade type Item 20 78252 T101B; T101BR; T144D; T101AO; T118B Bi-Metall 100 64-66 5 420 T101B; T101BR; T144D; T101AO; T118B CrV 100 50-52 5 20 420 50-52 25 525 78254 T101B; T144D CrV 78255 T101B; T101BR CrV100 50-52 25 525

### Set of blades for power jigsaw



#### **78256** multi-purpose











78260 wood









Intended for working with wood and metal, straight cut.

· Package: blister.

Intended for working with both soft and hard wood, fiberboard, plastic.

Package: blister.



· Package: blister.











Intended for cutting facing plates, fiberboard.

· Package: blister.



Intended for working with both soft and hard wood, fiberboard, plastic.

· Package: blister.

Item	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78256	T101B; T118BR	Bi-Metall	100	64-66	2	25	525
78260	T101B	CrV	75	50-52	2	25	525
78261	E101BR	CrV	75	50-52	2	25	525
78262	T101D	CrV	75	50-52	2	25	525

## **Cutting tools**

#### Set of blades for power jigsaw



#### 78263 wood







Intended for working with soft and hard wood, fiberboard, plastic.

· Package: blister.





Intended for working with soft and hard wood, fiberboard, plastic.



· Package: blister.



fiberboard, plastic. · Package: blister.

Set of blades for power jigsaw

3,0 mm 8 tpi

Intended for working with soft and hard wood,

Intended for working with soft and hard wood

with thickness less than 100 mm.



78268 wood

6-60 mm

4,0 mm 6 tpi

Intended for working with soft and hard wood, plywood.

· Package: blister.











Intended for straight accurate cutting of soft

Package: blister.

· Package: blister.

wood, plywood, fiberboard, plastic.

Intended for curved cutting of soft and hard

interface for straight accurate catting or sort
and hard wood workpieces with high thick-
ness, plywood, fiberboard, plastic.

					5		
ltem	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78263	T130DL	CrV	110	50-52	2	25	375
78264	T101AL	CrV	75	50-52	2	25	525
78265	T101A0	CrV	75	50-52	2	25	525
78266	3165	CrV	110	50-52	2	25	525



· Package: blister.







78270 wood







Intended for fast cutting of soft and hard wood.

Package: blister.

ltem	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78267	3145	CrV	75	50-52	2	25	525
78268	T144D	CrV	75	50-52	2	25	525
78269	T144DL	CrV	110	50-52	2	25	375
78270	T244D	CrV	75	50-52	2	25	525





Intended for curved cutting of soft and hard wood, plywood, fiberboard, plastic.

78273

5-60 mm 32 - 23%"

3,0 mm 8 tpi

Package: blister

plastic.

Rackage: blister.

wood

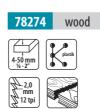




Intended for working with soft and hard wood with less than 120 mm thickness, thick wooden plates.

· Package: blister.





Intended for working with soft and hard wood, Intended for straight accurate cutting of soft and hard wood, plywood, plastic, perfectly suitable for organic glass.

· Package: blister.

Item	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78271	3182	CrV	75	50-52	2	25	375
78272	3104-XL	CrV	75	50-52	2	25	375
78273	T111C	CrV	75	50-52	2	25	525
78274	T111B	CrV	75	50-52	2	25	525

#### Set of blades for power jigsaw





Intended for working with plywood, fiberboard, insulation materials, plastic.

Package: blister.





Intended for cutting laminated plates with small thickness.

· Package: blister.





metal

Intended for cutting soft steel, aluminum, nonferrous metals, stainless steel.

· Package: blister.



Intended for cutting soft steel, aluminum, nonferrous metals, cloth laminate (textolite).

Package: blister.

Item	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78275	T119B	CrV	75	50-52	2	25	375
78276	3141	CrV	75	50-52	2	25	375
78277	T118A	HSS	50	60-62	2	25	525
78278	T118B	HSS	50	60-62	2	25	525



Intended for cutting non-ferrous metal, aluminum, plastic, asbestos cement.

· Package: blister.



Intended for cutting of soft and hard wood, fiberboard, plastic.

· Package: blister.

Item	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78279	T127D	HSS	75	60-62	2	25	525
78280	3176	Bi-Metall		64-66	2	25	525
78281	3180	CrV		50-52	2	25	525
78282	T101BF	Bi-Metall	50	60-62	2	25	525

#### Set of blades for power jigsaw



78280

1-1,6 mm 16-25 tpi

Intended for cutting any metal, perfect for cut-

ting sandwich panels. Flexible durable bimetal

78282

2,5 mm 10 tpi

Intended for cutting of soft and hard wood,

blade with progressive vario tooth.

· Package: blister.

fiberboard, plastic.

· Package: blister.

metal

wood

Bi-Metall



Intended for cutting soft steel, aluminum, nonferrous metal, stainless steel, wood with nails.

· Package: blister.





Intended for cutting soft steel, aluminum, nonferrous metal, stainless steel.

Package: blister.





Intended for cutting of soft and hard wood, wood with nails. Long service life.

ALC: NO SECURE AND ADDRESS OF THE PARTY OF T	
Sticks 3 ge blaster	95 mm 3 ¾" Metall
Stich	2,4 mm
	( Special State of Spec

· Package: blister.

Item	Blade type	Size, mm	Material	Hardness, HRc	Packing set, pcs	Small pack, pcs	Big pack, pcs
78283	T118AF	Bi-Metall	50	64-66	2	25	525
78284	T111HF	Bi-Metall	75	64-66	2	25	525
78285	T345XF	Bi-Metall	110	64-66	2	25	375











78290

78291









## Set of blades for power jigsaw















78294

78295



Plastic penal

#### Intended for working with wood, metal, fiberboard.

Allows to perform straight, backand curved cut.

PROFI

DIY

- · Made of high quality chrome-vanadium steel, made in Germany.
- Package: plastic penal.

#### Intended for working with wood, metal, fiberboard.

· Allows to perform straight, backand curved cut.

PROFI

DIY

- · Made of high quality chrome-vanadium steel, made in Germany.
- Package: plastic penal.

ltem	Size, mm	Material	Components, pcs	Small package, pcs	Big package, pcs
78290	100	CrV	6	5	200
78291	100	CrV	6	5	200

ltem	Size, mm	Material	Components, pcs	Small package, pcs	Big package, pcs
78294	100	CrV	10	5	140
78295	100	CrV	10	20	140

#### **PIRANHA tin snips**











Intended for straight, right and left cutting

stainless steel) with wide thickness range.

load on hand during cutting.

of sheet metal of different grades (including

• Double lever mechanism considerably reduces



Double lever mechanism Working part material: CrMo Cutting edge hardness: 60-62 HRc **Ergonomic two-component handles** 

· Cutting capacity for cold-rolled steel: 1,2 mm,

· Working edge material: steel CrMo,

#### **Bulldog PIRANHA tin snips**















Double lever mechanism Working part material: CrMo Cutting edge hardness: 60-62 HRc **Ergonomic two-component handles** 

stainless steel: 0,7 mm.

cuttina edae hardness: 60-62 HRc.

Ergonomic two-component handles.

Intended for straight cutting of sheet metal of different grades (including stainless steel) with wide range of thickness.

· Double lever mechanism considerably reduces load on hand during cutting.

- Cutting capacity for cold-rolled steel: 1.62 mm, stainless steel: 1.21 mm.
- · Working part material: steel CrMo, cuttina edae hardness: 60-62 HRc.
- Ergonomic two-component handles.

Item	Size, mm	Material	Technical specifications	Handle	Small pack, pcs	Big pack, pcs
78321	250	CrMo	straight and left cut	two-component	6	36
78323	250	CrMo	straight and right cut	two-component	6	36
78325	250	CrMo	straight cut	two-component	6	36

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ltem	Size, mm	Material	Technical specifications	Handle	Small pack, pcs	Big pack, pcs
78327	230	CrMo	straight enhanced cut BULLDOG	two-component	6	36



## **PIRANHA** tin snips



**78329** 270 mm **78331** 270 mm **78333** 270 mm Blade material: CrMo Working part hardness: 60-62 HRc Ergonomic two-component handles

Intended for straight, left and right long cutting of sheet metal.

Double lever mechanism considerably reduces load on hand during cutting.

• Ergonomic two-component handles.

- · Working edge material: steel CrMo.
- Cutting capacity for cold-rolled steel: up to 0.94 mm, stainless steel: up to 0.53 mm.
- Cuttina edae hardness: 60-62 HRc.

#### PIRANHA reinforced tin snips



78347	255 mm
78349	255 mm
78351	255 mm

Reinforced cutting blades Working part material: CrMo Working part hardness: 60-62 HRc Ergonomic two-component handles

Intended for direct, right and left cutting of sheet metal of various grades (including stainless steel) with wide thickness range and different hardness.

• Reinforced cutting blades.

- Working edge material: steel CrMo.
- Cutting edge hardness: 60-62 HRc.
- Cutting capacity for cold-rolled steel: up to 1.57 mm, for stainless steel: up to 0.94 mm.
- · Ergonomic two-component handles.

	ltem	Size, mm	Material	Technical specifications	Handle	Small pack, pcs	Big pack, pcs
/	78329	270	CrMo	straight cut	two-component	6	36
1	78331	270	CrMo	straight and left cut	two-component	6	36
N	78333	270	CrMo	straight and right cut	two-component	6	36

ltem	Size, mm	Body material	Technical specifications	Handle	Small pack, pcs	Big pack, pcs
78347	255	CrMo	straight cut	two-component	6	36
78349	255	CrMo	straight and left cut	two-component	6	36
78351	255	CrMo	straight and right cut	two-component	6	36

#### **PIRANHA MINI tin snips**











78357 190 mm, straight cut 78359 185 mm, straight and left cut **78361** 185 mm, straight and right cut Working part material: CrMo Working part hardness: 60-62 HRc

**Ergonomic two-component handles** 

#### **PIRANHA** cable cutter











78450 240 mm



Double lever mechanism Working part material: CrMo Working part hardness: 60-62 HRc **Ergonomic two-component handles** 

#### Intended for straight, right and left cutting of sheet metal.

- Working part material: CrMo steel.
- Working part hardness: 60-62 HRc.
- Ergonomic two-component anti-sliding handles.
- Cutting capacity for cold-rolled steel: up to 1,2 mm;
- For stainless steel: up to 0,70 mm
- Package: blister pack.

#### Intended for cutting of non-ferrous cables in thickness up to 14 mm.

- Double lever mechanism.
- · Working part material: CrMo steel.

- Induction tempered cutting edges hardness: 60-62 HRc.
- Ergonomic two-component anti-sliding handles.
- · Package: blister pack.

ltem	Size, mm	Material	Technical specifications	Handle	Small pack, pcs	Big pack, pcs
78357	190	CrMo	straight cut	two-component	10	50
78359	185	CrMo	straight and left cut	two-component	10	50
78361	185	CrMo	straight and right cut	two-component	10	50

ltem	Size, mm	Body material	Features	Handle	Small pack, pcs	Big pack, pcs
78450	240	steel CrMo	double lever mechanism	two-component	6	36



**GROSS Tool Catalog 2016** 



## **Shears for cutting PVC items**















**78420** to 36 mm

Intended for cutting plastic pipes, floor moldings, profiles, rubber hoses, PVC fillets, etc.

- Two cutting edges (trapezoid shape of working blade).
- Improved design of ratchet mechanism.
- Ergonomic two-component handles.
- Equipped with additional working table.
- Made of aluminum, blade material: steel SK5, cutting edge hardness: 54-58 HRc.

ltem	Size, mm	Material	Handle	Small pack, pcs	Big pack, pcs
78420	D up to 36	aluminum alloy	two-component	10	50

### **Shears for cutting PVC items**



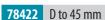














Straight shape Improved ratchet mechanism Table for flat items Ergonomic rubber-coated handles Cutting part material: steel SK5 Working part hardness: 54-58 HRc

Intended for cutting plastic pipes, floor moldings, profiles, rubber hoses, PVC fillets, etc.

- One cutting edge (straight shape of working blade).
- Improved design of ratchet mechanism.
- · Ergonomic rubber-coated handles.
- Equipped with additional working table.
- Body material: aluminum alloy, cutting edge material: steel SK5, cutting edge hardness: 54-58 HRc.

#### **Shears for cutting PVC items**



















Multi-purpose Straight shape Improved ratchet mechanism Powder coated handles Cutting edge material: steel SK5 Working part hardness: 53-56 HRc

Intended for cutting plastic pipes, floor moldings, profiles, rubber hoses, PVC fillets, etc.

- One cutting edge (straight shape of working blade).
- Improved design of ratchet mechanism.
- Cutting edge material: steel SK5, cutting edge hardness: 53-56 HRc.
- Powder coated handles.

Item	Size, mm	Body material	Handle	Small pack, pcs	Big pack, pcs
78422	D up to 45	steel SK5	two-component	10	50

				///////////////////////////////////////	///////////////////////////////////////
ltem	Size, mm	Body material	Handle	Small pack, pcs	Big pack, pcs
78424	D up to 42	steel SK5	metal	12	36





#### PIRANHA manual pipe cutter



**78703** 6-23 mm **78704** 12-35 mm

Body material: shock-proof plastic
Pipe grip material: zinc and steel alloy
Cutting element: high-quality high-speed steel
Rockwell hardness: 59±1 HRc
Mechanical adjustment of pipe grip
Ratchet mechanism
Spare cutting wheel

Intended for cutting thin-wall stainless steel pipes and also pipes, made of non-ferrous metals, with diameter 12–35 mm (1/2"–13/4").

- Ratchet mechanism allows you to avoid full turning around the pipe during cutting.
- Manual mechanical adjustment of pipe clamping ensures high-performance cutting and allows you to dose pressure on the pipe during cutting.
- Ergonomic shape and adjusted handle size provide optimal grip on the tool during work.
- Design features of the tool ensure quick replacement of cutting element (wheel).
- · Made in Japan.

#### PIRANHA palmar pipe cutter



78705	16 mm
78706	22 mm

Body material: shock-proof plastic Pipe grip material: zinc and steel alloy Cutting element: Japanese standard of steel SuJ2 (100 Cr6)

Rockwell hardness: 52 HRc Automatic adjustment of pipe grip Ratchet mechanism Opening for lever handle 1/4"

Intended for cutting non-ferrous pipes, with diameter  $16 \text{ mm} (1/2)^{\circ}$  and  $22 \text{ mm} (3/4)^{\circ}$ .

- Ratchet mechanism allows you to avoid full turning around the pipe during cutting.
- Automatic adjustment of pipe grip ensures high-performance cutting.
- Ergonomic shape of the body provides optimal grip during work.
- Working opening 1/4" on the body allows you to use extension tommy bar or ratchet wrench with 1/4" square drive for working in hard-toreach places.
- Design features of the tool ensure quick replacement of cutting element (wheel).
- Made in Japan.

ltem	Pipe diameter, mm/inch	Rockwell hardness, HRc	Small pack, pcs	Big pack, pcs
78703	6-23 / 1/4 - 7/8	59±1	1	36
78704	12-35 / ½ - 1 <sup>3</sup> /8	59±1	1	36

Item	Pipe diameter, mm/inch	Rockwell hardness, HRc	Small pack, pcs	Big pack, pcs
78705	16 / 1/2	52	1	72
78706	22 / 3/4	52	1	72



#### Rimmer



**78707** D 3-42 mm

Body material: steel and zinc alloy Working elements material: high-carbon steel Rockwell hardness: 56-60 HRc

## Intended for chamfering inner and outer bevels of pipes.

- Acceptable diameter of pipes: 3–42 mm (1/8"-15%").
- Pipe material: steel of grade St3, copper, aluminum, brass, PVC, metal-plastic.

## Item Pipe diameter, mm/inch Rockwell hardness, HRC Small pack, pcs Big pack, pcs 78707 3-42 / ½ - 1 ½ s 56-60 1 72

## Cutting wheel for pipe cutter





78708

for item No. 78705, 78706

78709

for item No. 78703, 78704

Material: Japanese standard of steel SUJ2 (100 Cr6) Rockwell hardness: 52 HRc

Item No. 78708 is used as a spare part for pipe cutters of models 78705, 78706: for cutting nonferrous pipes.

• Size: A = 4.5 mm, B = 3 mm, C = 16 mm.

Item No. 78709 is used as a spare part for pipe cutters of models 78703, 78704: for cutting thinwall stainless steel pipes and also pipes, made of non-ferrous metals.

• Size: A = 6.2 mm, B = 4.8 mm, C = 18 mm.



ltem	Pipe material	Size, mm	Rockwell hardness, HRc	Small pack, pcs	Big pack, pcs
78708	copper, non-ferrous metals	$4,5 \times 3 \times 16$	52	1	500
78709	stainless steel, copper, aluminium	$6,2 \times 4,8 \times 18$	52	1	500

#### Knife for repair and mounting work







#### Set of knives for repair and mounting work







78876





Mechanism of automatic ejection and withdrawal of blades Safe blade replacement mode Compartment for spare blades Blade material: SK2

78870 170 mm, 5 blades **78873** MINI, 100 mm, 2 blades Mechanism of automatic ejection and withdrawal of blades Safe blade replacement mode Compartment for spare blades Blade material: SK2

#### Intended for cutting various materials.

- Automatic gun-type mechanism of ejection and removal of blades.
- · Equipped with trigger mechanism and button for blade withdrawal.
- Safe and quick mode of blades replacement.
- Body equipped with a compartment for spare blades.
- Three-component handle/body.
- · Blade material: SK2 steel.

#### Intended for cutting various materials.

2 pieces

- Knives are provided with an automatic gun-type mechanism of ejection and withdrawal of blades.
- · Equipped with trigger mechanism.
- · Equipped with the button for blade withdrawal.
- Safe and quick mode of blades replacement.
- Body equipped with a compartment for spare
- Three-component handle/body.
- · Blade material: SK2 steel.

ltem	Blade size, mm	Length, mm	Blade material	Technical specifications	Small pack, pcs	Big pack, pcs
78870	60 × 0,6 × 19	170	SK2	three-component body-handle	1	6
78873	27×0,6×0,9	100	SK2	three-component	1	12

ltem	Composition	Blade size, mm	Size, mm	Technical specifications	Complete set, pcs	Small pack, pcs	Big pack, pcs
70076	Mini-knives	$27 \times 0.6 \times 0.9$	100	three-component body-handle	1	1	12
78876	Knife	60×0,6×19	170	three-component body-handle	1	1	12 /



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### Knife for repair and mounting work







**78879** 175 mm

Spare blades: 5 pcs Lock on the startup trigger Compartment for spare blades Safe blade replacement mode Blade material: SK2

#### Intended for cutting various materials.

- Five spare blades included. Blade is automatically ejected by pressing
- The lock on the startup trigger prevents spontaneous ejection of blade.
- Equipped with compartment for spare blades inside the body.
- Equipped with safe and quick mode of blades replacement by pressing the button at the inlet.
- · Blade material: steel SK2.

#### Folding knife for repair and mounting work







**78882** 175 mm

Folding Spare blades: 2 pcs Compartment-holder for trapezoid blades Ergonomic three-component handle Blade material: steel SK2

#### Intended for cutting various materials.

- Two spare blades included.
- Equipped with compartment-holder for spare trapezoid blades.
- Ergonomic two-component handle.
- Blade material: steel SK2.

ltem	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs	Big pack, pcs
78879	$60 \times 0.6 \times 19$	175	SK2	three-component	1	6

ltem	Blade size, mm	Total length, mm	Band material	Handle	Small pack, pcs	Big pack, pcs
78882	$60 \times 0.6 \times 19$	175	SK2	three-component	1	6

## Knife for design





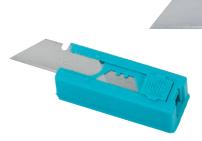


Spare blades: 2 pcs Compartment for spare blades Metal clip for fixation Blade material: steel SK5

## **Trapezoid blade**







**79376** 19 mm, 12 pcs

Trapezoid shape Plastic case Blade material: steel SK2

#### Intended for wood jobbing.

**78885** 150 mm

- Two spare blades included.
- Blade is ejected by turning the lower rubbercoated part of knife body.
- Equipped with compartment for spare blades in the upper part of knife body.
- · Metal clip for fixation.
- Two-component handle/body.
- Blade material: steel SK5.

Suitable for all GROSS knives except for items 78873 and 78875.

• Trapezoid shape, size: 19 mm.

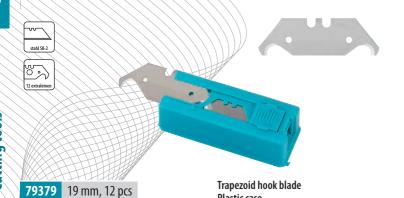
- Convenient storing in plastic case. Blade ejection by light pressing on the case cover and moving it forward.
- Blade material: steel SK2.

ltem	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs	Big pack, pcs
78885	150	150	SK5	two-component	1	12

ltem	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
79376	$60 \times 0,6 \times 19$	SK2	12	1	6



## **Hook trapezoid blade**



Intended for working with soft floor covering materials (linoleum, synthetic covering). Suitable for all GROSS knives except for items 78873 and 78885.

- Trapezoid hook shape, size: 19 mm.
- Convenient storing in plastic case. Blade ejection by light pressing on the case cover and moving it forward.
- Blade material: steel SK5.

Blade material: steel SK5

Plastic case

#### MINI blade









**79373** 9 mm, 15 pcs

Trapezoid shape Plastic case Blade material: steel SK2

#### Suitable for GROSS MINI knives, item 78873.

- Trapezoid shape, size: 9 mm.
- Convenient storing in plastic case. Blade ejection by light pressing on the case cover and moving it forward.
- Blade material: steel SK2.

/	ltem	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
\	79379	$60 \times 0,6 \times 19$	SK5	12	1	6

ltem	Size, mm	Material	Complete set, pcs	Small pack, pcs	Big pack, pcs
79373	$27 \times 0.6 \times 9$	SK2	15	1	6

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