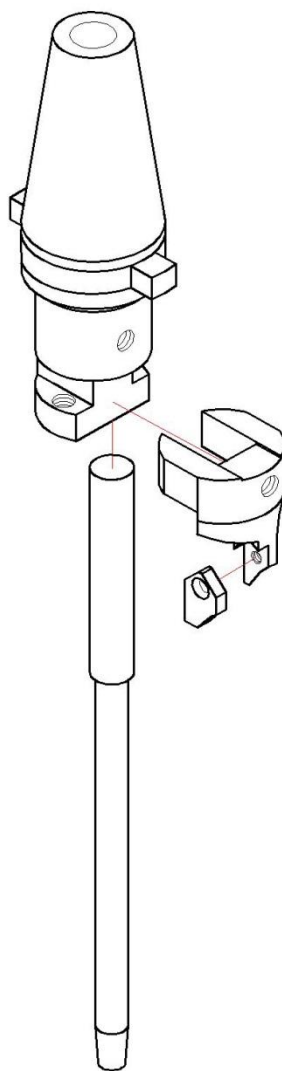


# КАТАЛОГ ИНСТРУМЕНТА

**PROVALVE®**



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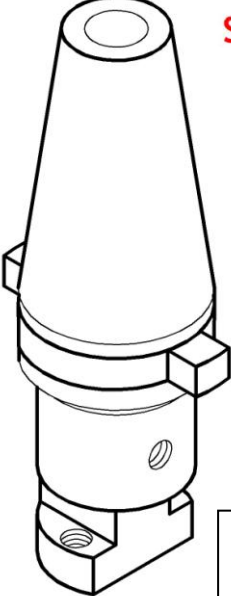
[www.engine-expert.com](http://www.engine-expert.com)

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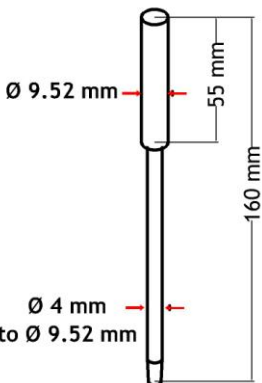
**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**

**SH-100**

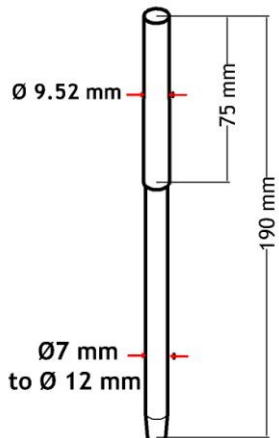


Fork width : 12mm  
Fork height: 9.5mm  
Pilot hole : Ø9.52mm

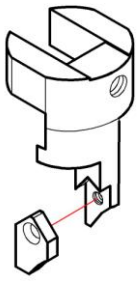
**CP**



**CPL**



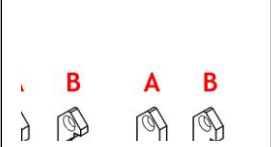
**SH-0L**



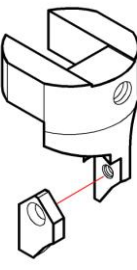
Long type

**Diameter capacity of valve seat**  
Ø18 – Ø30 mm

**Dia. capacity of counterboring**  
Ø25 – Ø35 mm

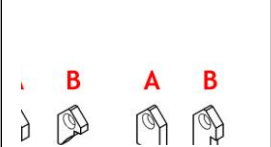


**SH-0**

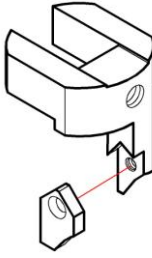


**Diameter capacity of valve seat**  
Ø18 – Ø30 mm

**Dia. capacity of counterboring**  
Ø25 – Ø35 mm

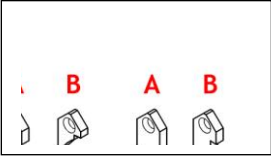


**SH-1**

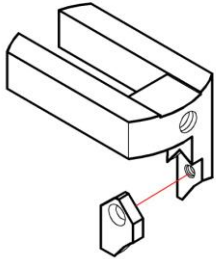


**Diameter capacity of valve seat**  
Ø28 – Ø42 mm

**Dia. capacity of counterboring**  
Ø32 – Ø45 mm

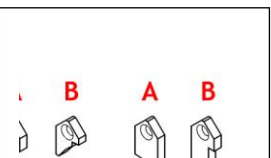


**SH-2**

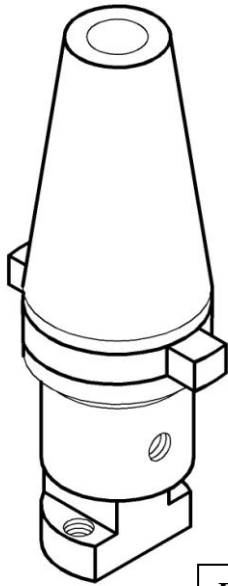


**Diameter capacity of valve seat**  
Ø40 – Ø58 mm

**Dia. capacity of counterboring**  
Ø40 – Ø60 mm

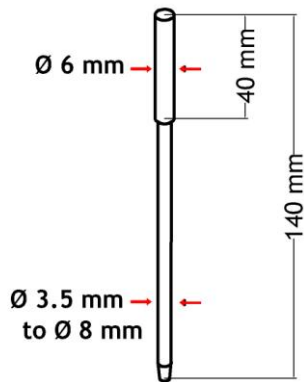


**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**



**SH-101**

Fork width : 12mm  
Fork height: 9.5mm  
Pilot hole : Ø6mm



**CPS**

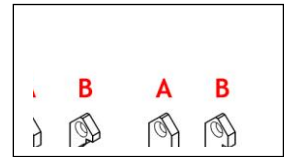
**SH-0L**



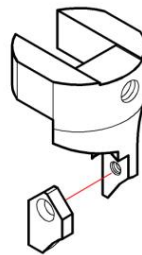
Long type

Diameter capacity of valve seat  
**Ø16 – Ø30 mm**

Dia. capacity of counterboring  
**Ø23 – Ø35 mm**

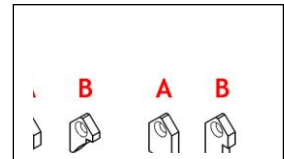


**SH-0**

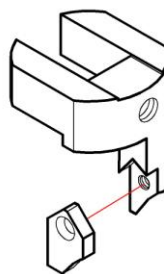


Diameter capacity of valve seat  
**Ø16 – Ø30 mm**

Dia. capacity of counterboring  
**Ø23 – Ø35 mm**

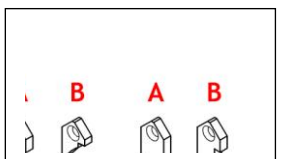


**SH-1**

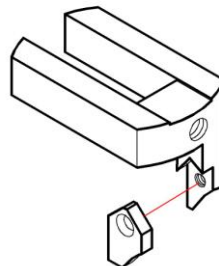


Diameter capacity of valve seat  
**Ø25 – Ø42 mm**

Dia. capacity of counterboring  
**Ø30 – Ø45 mm**

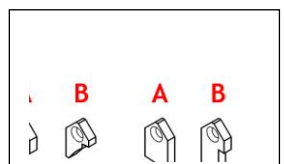


**SH-2**



Diameter capacity of valve seat  
**Ø38 – Ø58 mm**

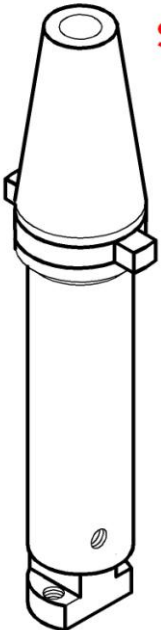
Dia. capacity of counterboring  
**Ø38 – Ø60 mm**



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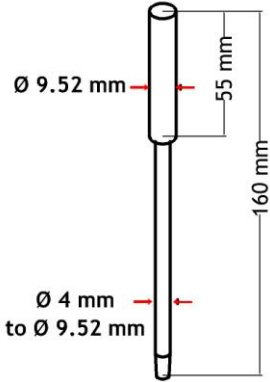
## СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ

**SH-102**

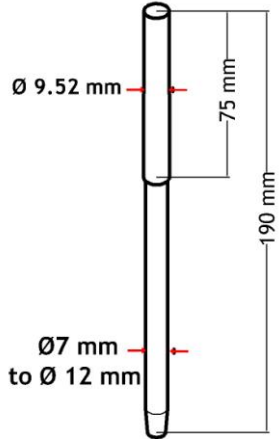


**Fork width : 12mm**  
**Fork height: 9.5mm**  
**Pilot hole : Ø9.52mm**

**CP**

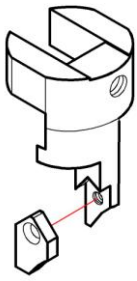


Ø 9.52 mm  
55 mm  
160 mm  
Ø 4 mm  
to Ø 9.52 mm



Ø 9.52 mm  
75 mm  
190 mm  
Ø 7 mm  
to Ø 12 mm

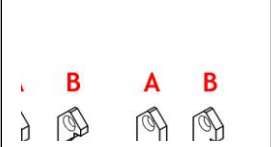
**SH-0L**



**Long type**

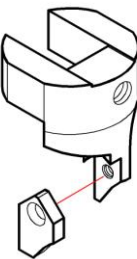
**Diameter capacity of valve seat**  
**Ø18 – Ø30 mm**

**Dia. capacity of counterboring**  
**Ø25 – Ø35 mm**



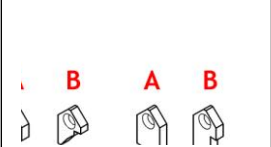
B A B

**SH-0**



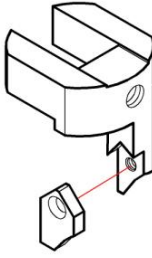
**Diameter capacity of valve seat**  
**Ø18 – Ø30 mm**

**Dia. capacity of counterboring**  
**Ø25 – Ø35 mm**



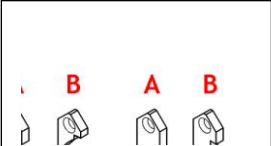
B A B

**SH-1**



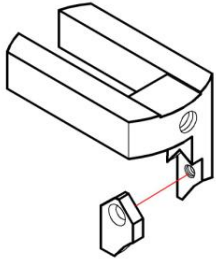
**Diameter capacity of valve seat**  
**Ø28 – Ø42 mm**

**Dia. capacity of counterboring**  
**Ø32 – Ø45 mm**



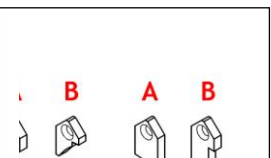
B A B

**SH-2**



**Diameter capacity of valve seat**  
**Ø40 – Ø58 mm**

**Dia. capacity of counterboring**  
**Ø40 – Ø60 mm**

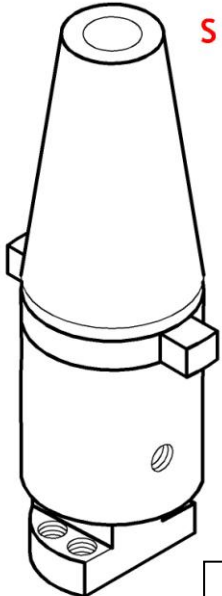


B A B

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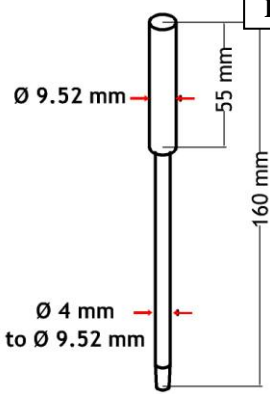
**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**

**SH-200**



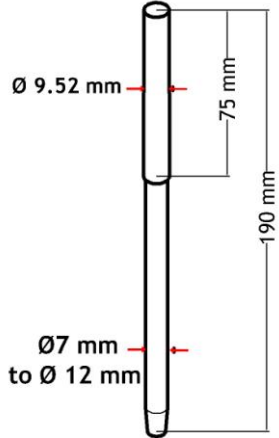
**Fork width : 12mm**  
**Fork height: 9.5mm**  
**Pilot hole : Ø9.52mm**

**CP**



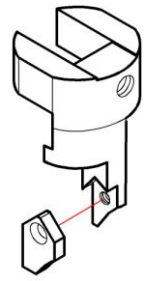
Ø 9.52 mm — 55 mm  
 160 mm  
 Ø 4 mm —  
 to Ø 9.52 mm

**CPL**



Ø 9.52 mm — 75 mm  
 190 mm  
 Ø 7 mm —  
 to Ø 12 mm

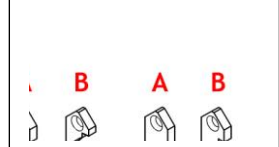
**SH-0L**



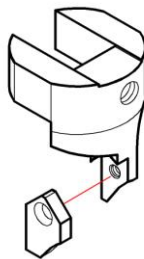
**Long type**

**Diameter capacity of valve seat**  
**Ø18 – Ø30 mm**

**Dia. capacity of counterboring**  
**Ø25 – Ø35 mm**

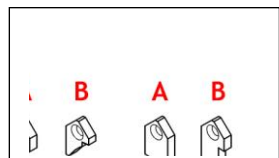


**SH-0**

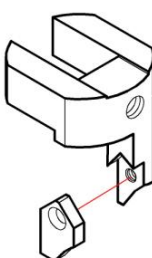


**Diameter capacity of valve seat**  
**Ø18 – Ø30 mm**

**Dia. capacity of counterboring**  
**Ø25 – Ø35 mm**

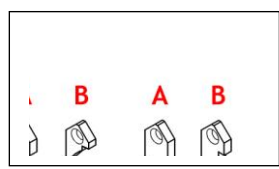


**SH-1**

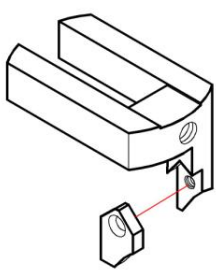


**Diameter capacity of valve seat**  
**Ø28 – Ø42 mm**

**Dia. capacity of counterboring**  
**Ø32 – Ø45 mm**

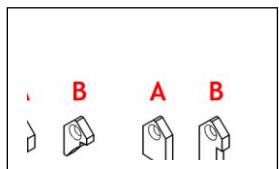


**SH-2**

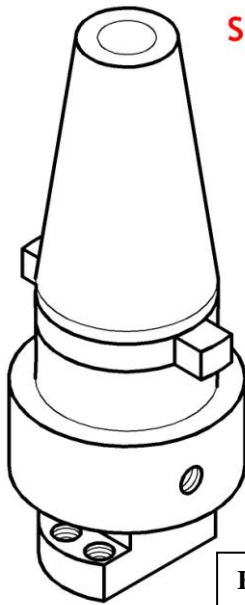


**Diameter capacity of valve seat**  
**Ø40 – Ø58 mm**

**Dia. capacity of counterboring**  
**Ø40 – Ø60 mm**

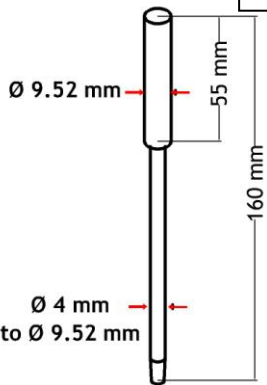


**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**

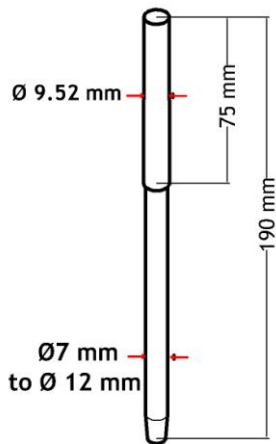


**SH-300**

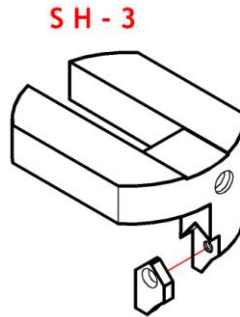
**Fork width : 14mm**  
**Fork height: 11mm**  
**Pilot hole : Ø9.52mm**



**CP**



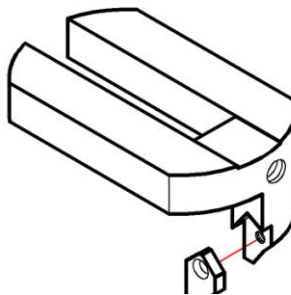
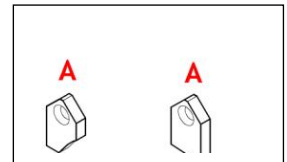
**CPL**



**SH-3**

**Diameter capacity of valve seat**  
**Ø40 – Ø70 mm**

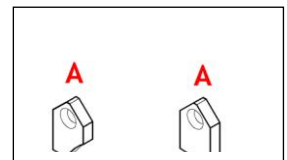
**Dia. capacity of counterboring**  
**Ø45 – Ø75 mm**



**SH-4**

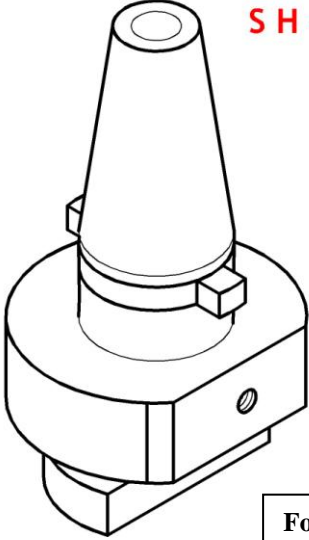
**Diameter capacity of valve seat**  
**Ø45 – Ø90 mm**

**Dia. capacity of counterboring**  
**Ø50 – Ø95 mm**



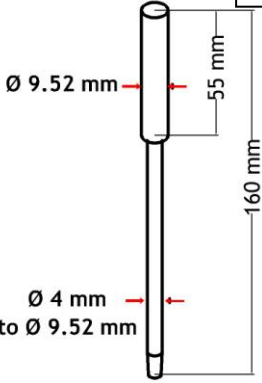
**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**

**SH-400**



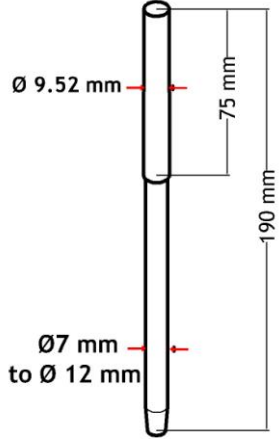
**Fork width : 14mm**  
**Fork height: 11mm**  
**Pilot hole : Ø9.52mm**

**CP**



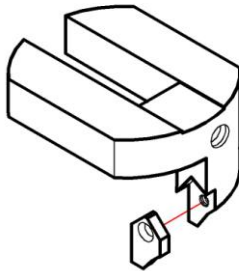
Ø 9.52 mm  
55 mm  
160 mm  
Ø 4 mm  
to Ø 9.52 mm

**CPL**



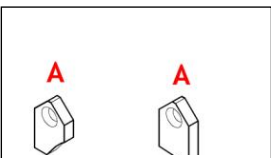
Ø 9.52 mm  
75 mm  
190 mm  
Ø 7 mm  
to Ø 12 mm

**SH-3**

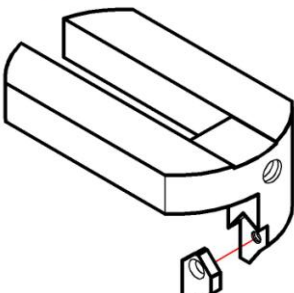


**Diameter capacity of valve seat**  
**Ø45 – Ø75 mm**

**Dia. capacity of counterboring**  
**Ø50 – Ø80 mm**

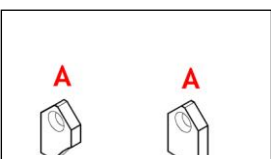


**SH-4**



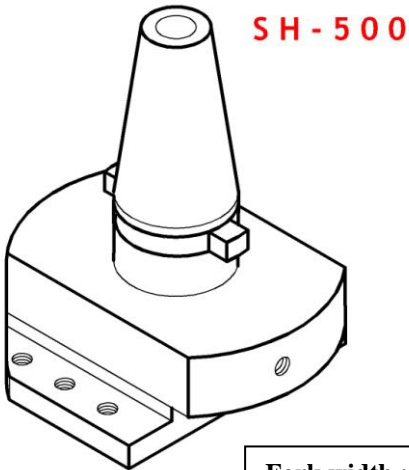
**Diameter capacity of valve seat**  
**Ø50 – Ø100 mm**

**Dia. capacity of counterboring**  
**Ø55 – Ø105 mm**

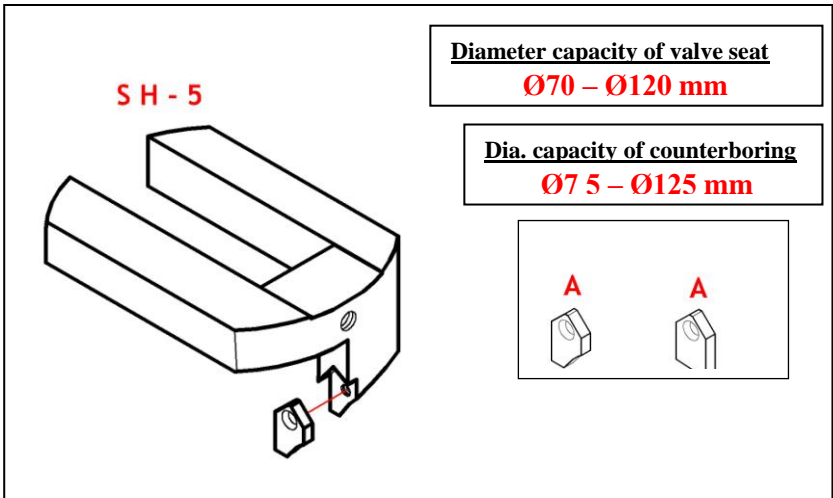
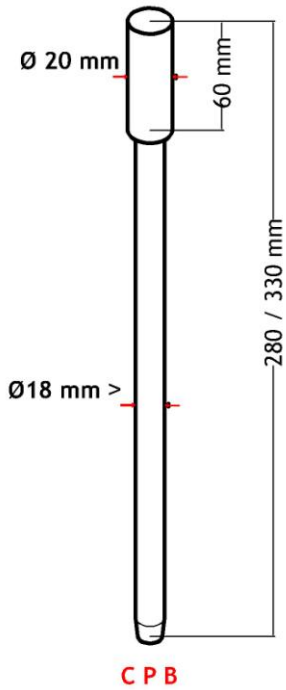




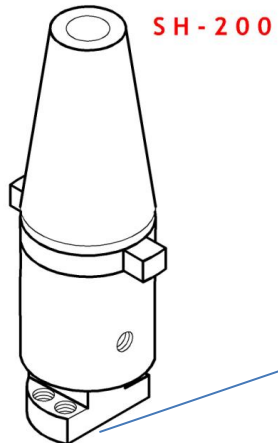
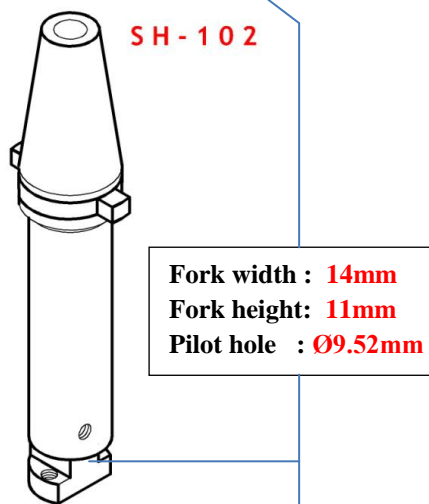
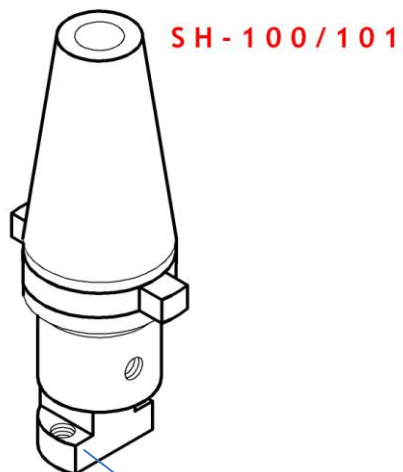
**СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ**



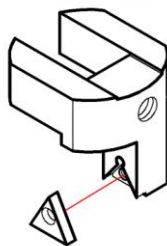
Fork width : **25mm**  
Fork height: **12mm**  
Pilot hole : **Ø20mm**



СПЕЦИАЛЬНАЯ СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ



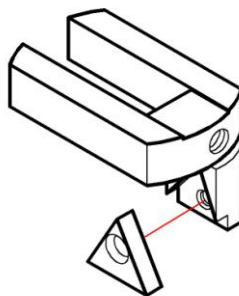
SH-190



TCMT-11



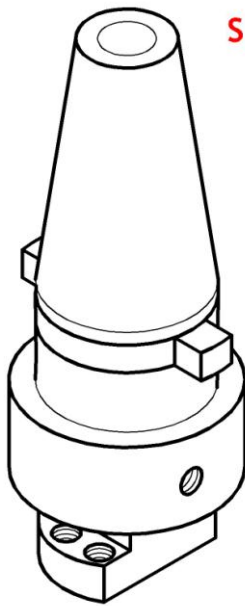
SH-290



TCMT-16



СПЕЦИАЛЬНАЯ СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ



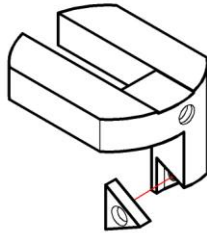
**SH - 300**

**Fork width : 14mm**  
**Fork height: 11mm**  
**Pilot hole : Ø9.52mm**

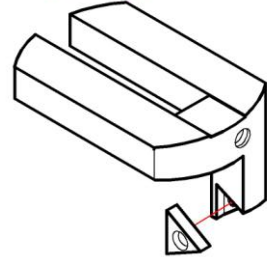
**TCMT-16**



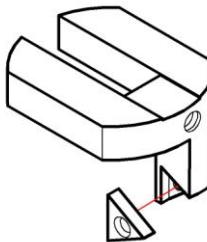
**SH - 320**



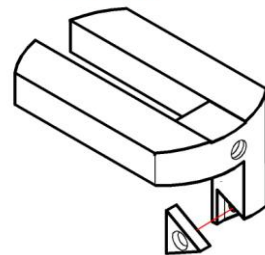
**SH - 420**



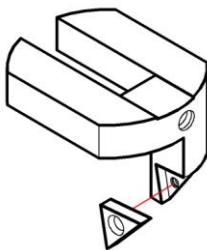
**SH - 330**



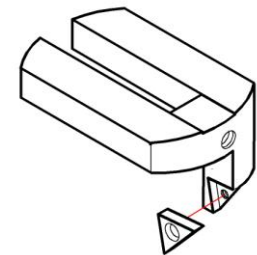
**SH - 430**



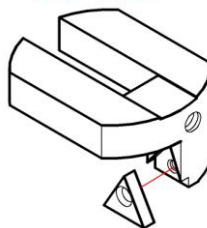
**SH - 345**



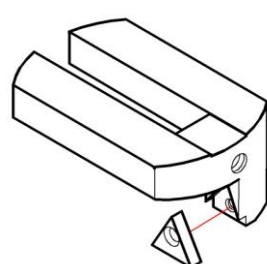
**SH - 445**



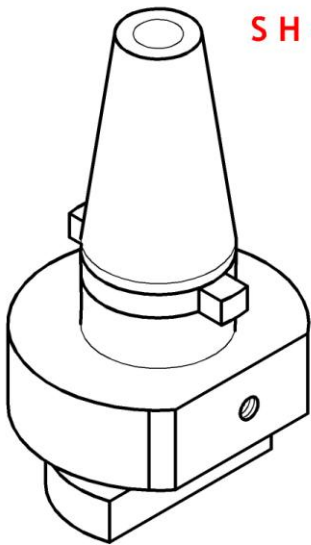
**SH - 390**



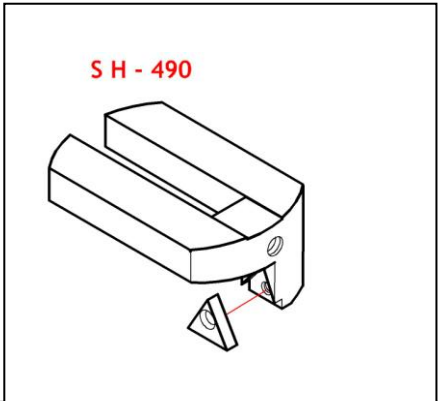
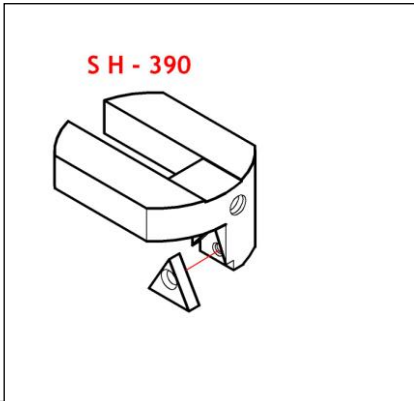
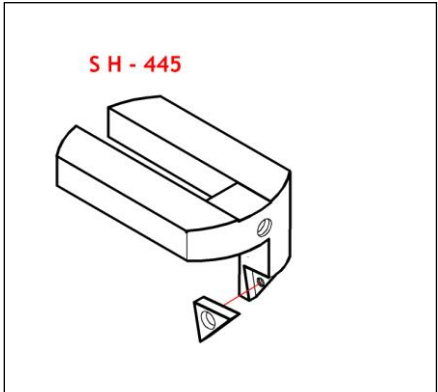
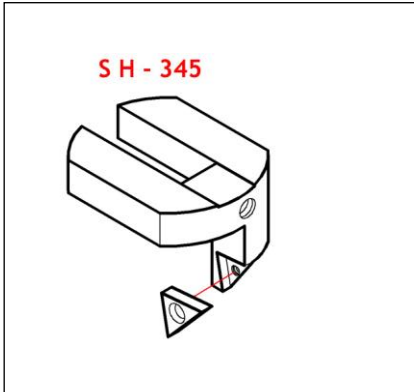
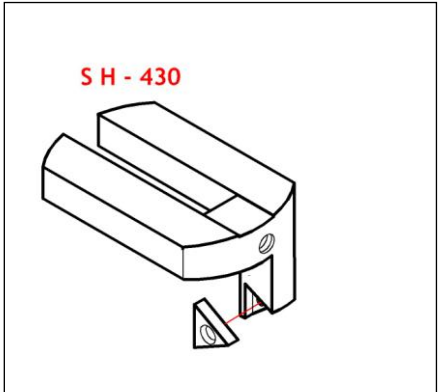
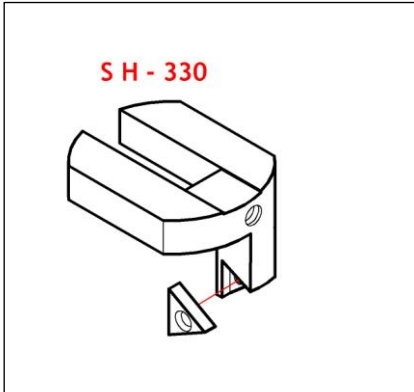
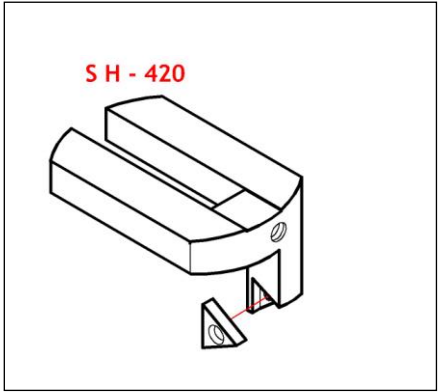
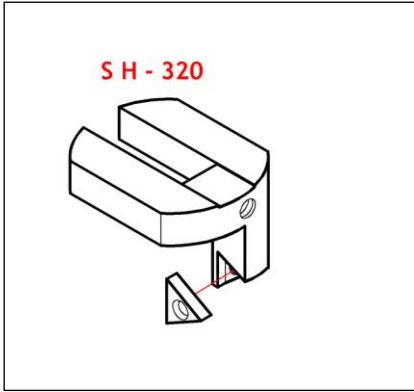
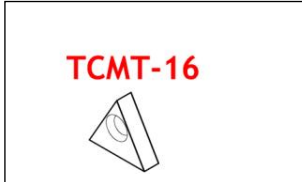
**SH - 490**



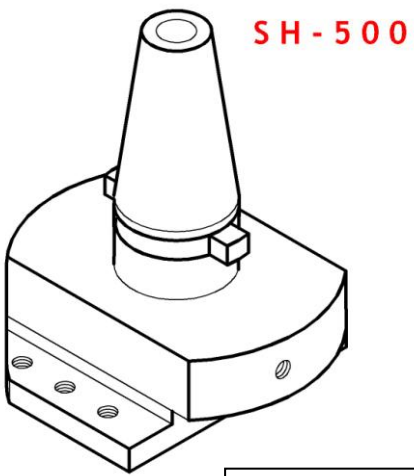
СПЕЦИАЛЬНАЯ СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ



Fork width : 14mm  
Fork height: 11mm  
Pilot hole : Ø9.52mm



СПЕЦИАЛЬНАЯ СИСТЕМА ИНСТРУМЕНТА ДЛЯ ОБРАБОТКИ СЕДЕЛ

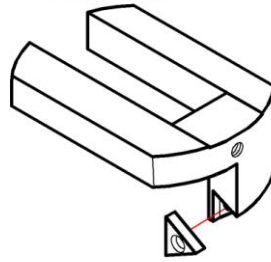


Fork width : 25mm  
Fork height: 12mm  
Pilot hole : Ø20mm

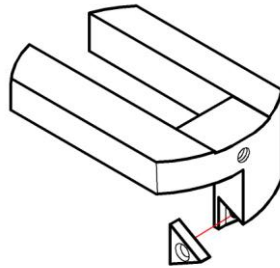
TCMT-16



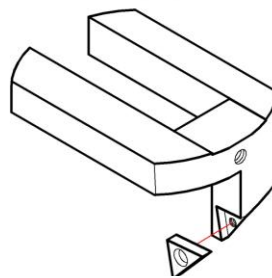
SH-520



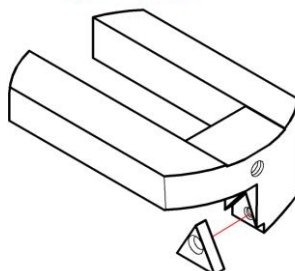
SH-530



SH-545

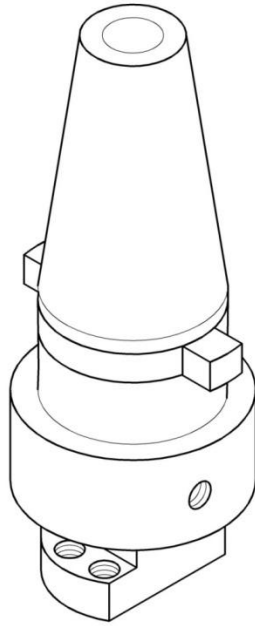


SH-590

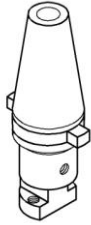
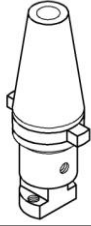
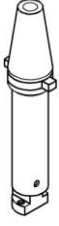


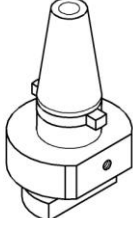
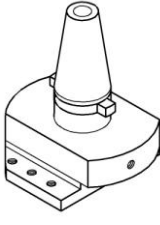


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ДЕРЖАТЕЛИ ИНСТРУМЕНТА

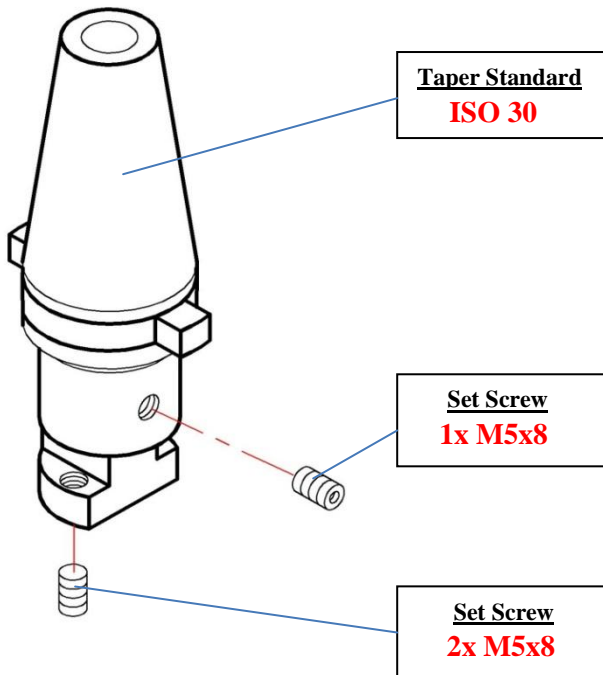


**PROVALVE®**

	<b>SH - 100</b>	TOOL HOLDER	p.12
	<b>SH - 101</b>	TOOL HOLDER	p.12
	<b>SH - 102</b>	TOOL HOLDER	p.13
	<b>SH - 200</b>	TOOL HOLDER	p.13
	<b>SH - 300</b>	TOOL HOLDER	p.14
	<b>SH - 400</b>	TOOL HOLDER	p.14
	<b>SH - 500</b>	TOOL HOLDER	p.15

ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**SH - 100**

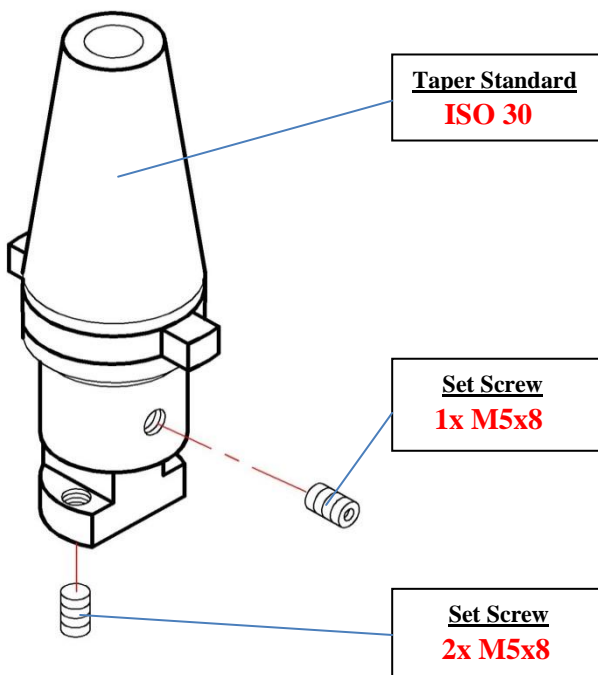


**ONLY FOR CUTTING**

**BIT HOLDERS:** -SH-0L  
-SH-0  
-SH-1  
-SH-190  
-SH-2  
-SH-290

**PILOTS:** -CP  
-CPL

**SH - 101**



**ONLY FOR CUTTING**

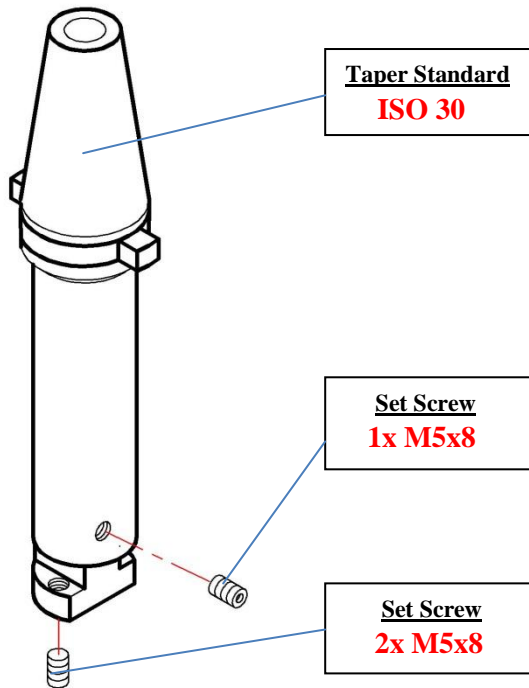
**BIT HOLDERS:** -SH-0L  
-SH-0  
-SH-1  
-SH-190  
-SH-2  
-SH-290

**PILOTS:** -CPS



ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**SH - 102**



**ONLY FOR CUTTING**

**BIT HOLDERS:** -SH-0L

-SH-0

-SH-1

-SH-190

-SH-2

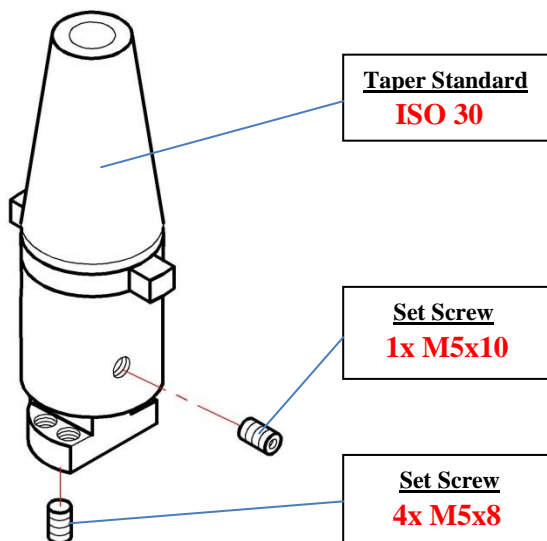
-SH-290

**PILOTS:**

-CP

-CPL

**SH - 200**



**ONLY FOR CUTTING**

**BIT HOLDERS:** -SH-0L

-SH-0

-SH-1

-SH-190

-SH-2

-SH-290

**PILOTS:**

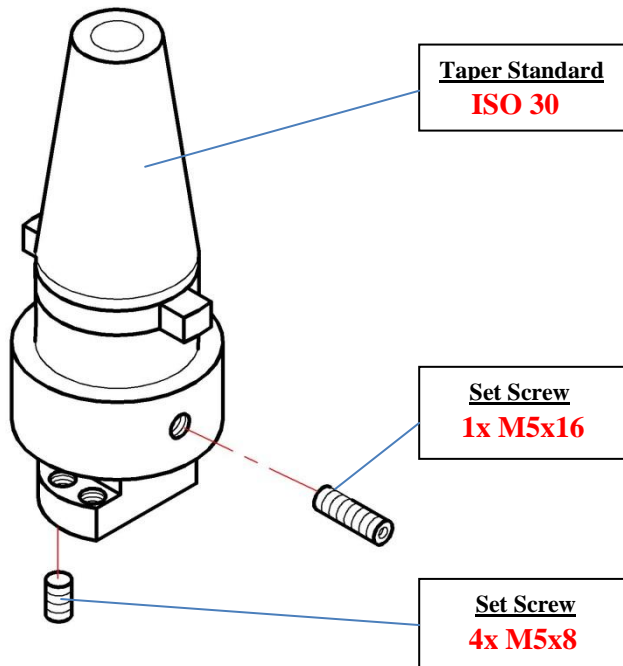
-CP

-CPL

**PROVALVE®**

ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**SH - 300**



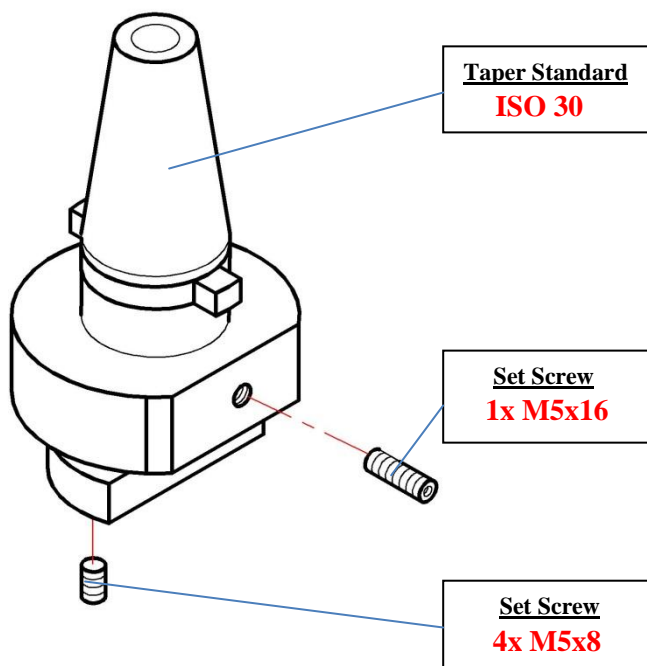
**ONLY FOR CUTTING**

<b><u>BIT HOLDERS:</u></b>	-SH-3	-SH-4
	-SH-320	-SH-420
	-SH-330	-SH-430
	-SH-345	-SH-445
	-SH-390	-SH-490

<b><u>PILOTS:</u></b>	-CP
	-CPL
	-CPXL

**SH - 400**



**ONLY FOR CUTTING**

<b><u>BIT HOLDERS:</u></b>	-SH-3	-SH-4
	-SH-320	-SH-420
	-SH-330	-SH-430
	-SH-345	-SH-445
	-SH-390	-SH-490

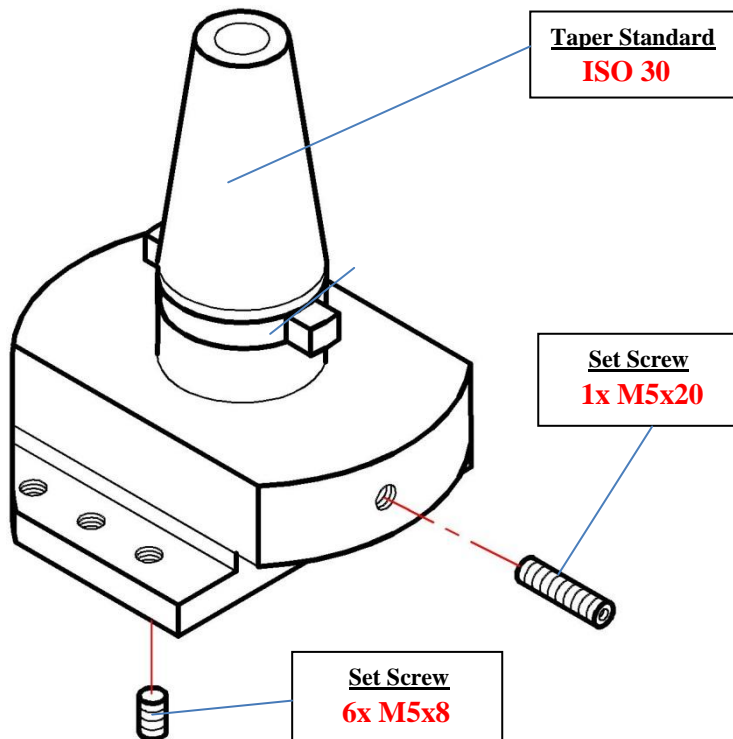
  

<b><u>PILOTS:</u></b>	-CP
	-CPL
	-CPXL

**PROVALVE®**

ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**SH - 500**





**ONLY FOR CUTTING**


**BIT HOLDERS:** -SH-5  
-SH-520  
-SH-530  
-SH-545  
-SH-590

**PILOTS:** -CPB

СПЕЦИАЛЬНЫЕ ДЕРЖАТЕЛИ ИНСТРУМЕНТА

	<b>DMH - 2</b>	SPECIAL TOOL HOLDER	p.16
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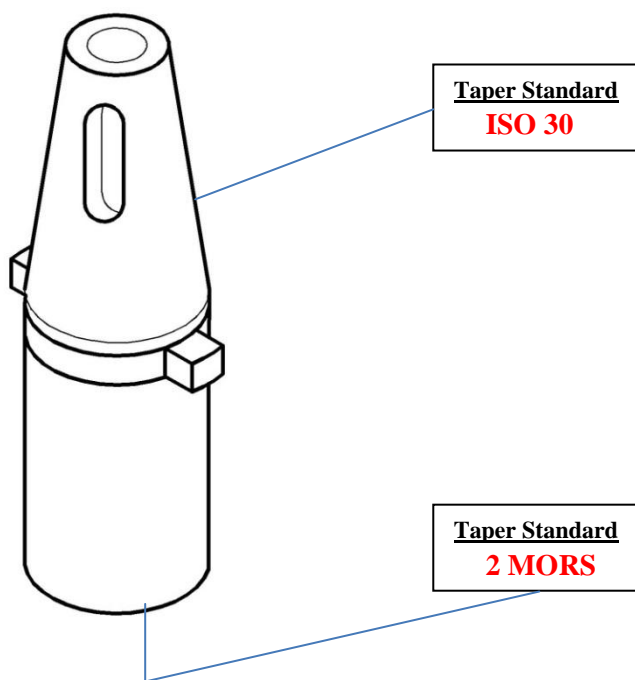
	<b>MAT - 20</b>	SPECIAL TOOL HOLDER	p.17
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	<b>MAC - 45</b>	SPECIAL TOOL HOLDER	p.18
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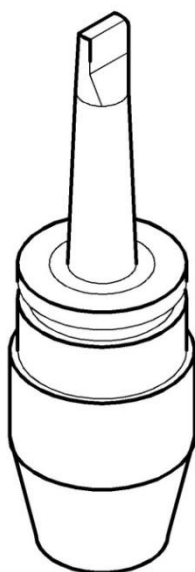
**PROVALVE®**

СПЕЦИАЛЬНЫЕ ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**DMH-2**



**PRECISION DRILL CHUCK**

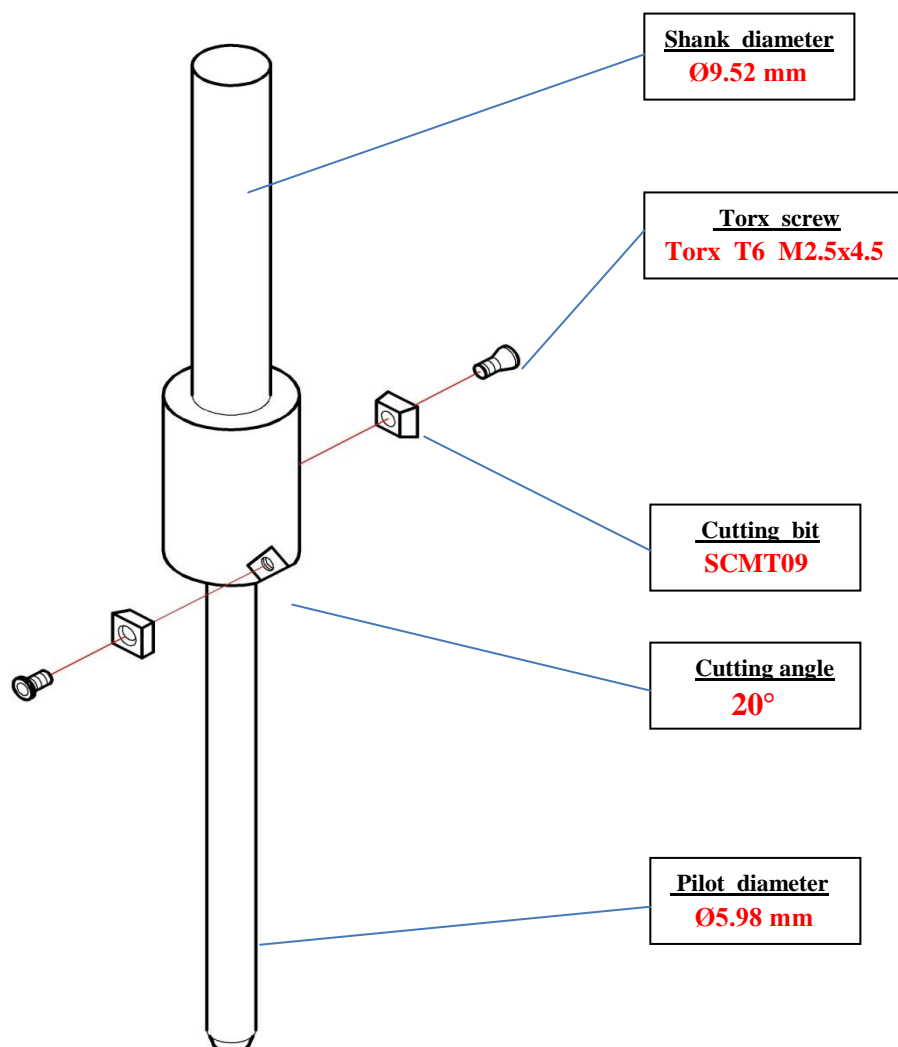


**PROVALVE®**

СПЕЦИАЛЬНЫЕ ДЕРЖАТЕЛИ ИНСТРУМЕНТА

**MAT-20**

**MERCEDES ATEGO AXOR  
(EXHAUST BRAKE VALVE SEAT)**

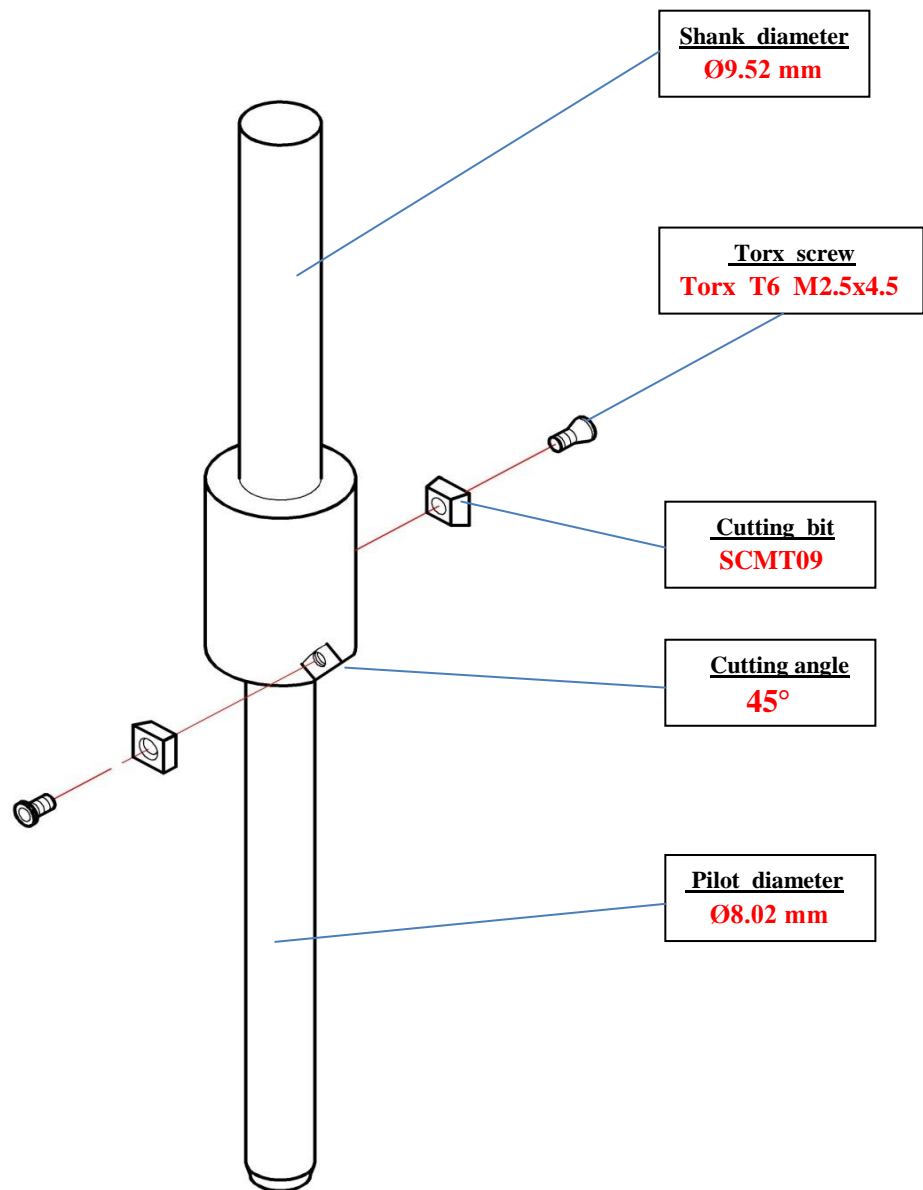


**PROVALVE®**

СПЕЦИАЛЬНЫЕ ДЕРЖАТЕЛИ ИНСТРУМЕНТА

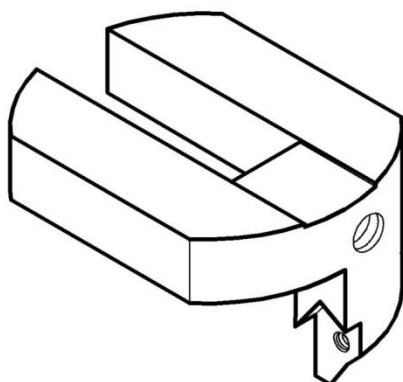
**MAC-45**

**MERCEDES ACTROS  
(EXHAUST BRAKE VALVE SEAT)**

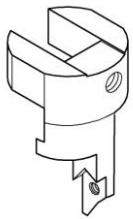
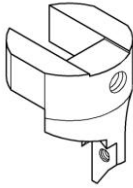
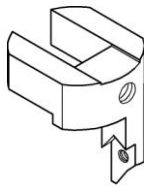
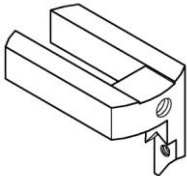
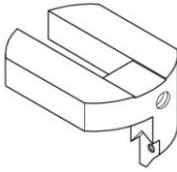
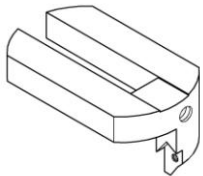
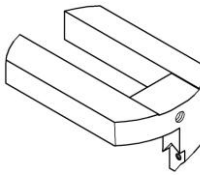


**PROVALVE®**

РЕЗЦЕДЕРЖАТЕЛИ





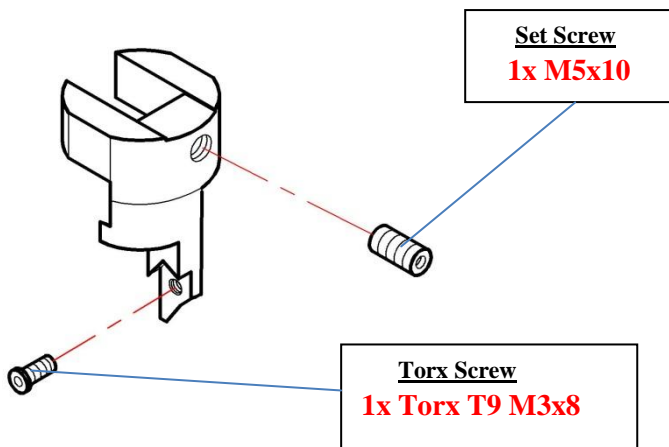
	<b>SH - 0L</b>	CUTTING BIT HOLDER	p.19
	<b>SH - 0</b>	CUTTING BIT HOLDER	p.19
	<b>SH - 1</b>	CUTTING BIT HOLDER	p.20
	<b>SH - 2</b>	CUTTING BIT HOLDER	p.20
	<b>SH - 3</b>	CUTTING BIT HOLDER	p.21
	<b>SH - 4</b>	CUTTING BIT HOLDER	p.21
	<b>SH - 5</b>	CUTTING BIT HOLDER	p.22

**PROVALVE®**

**РЕЗЦЕДЕРЖАТЕЛИ**

**SH - 0L**

Machining Capacity  
**Ø16 to Ø30 mm**



**ONLY FOR CUTTING**

**TOOL HOLDERS:**-SH-100

-SH-101

-SH-102

-SH-200

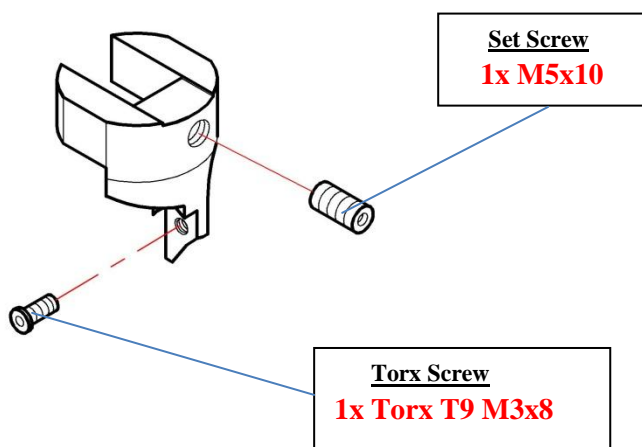
**CARBIDE BITS:** -A

-B

**0° RAKE CUTTING ANGLE**

**SH - 0**

Machining Capacity  
**Ø16 to Ø30 mm**



**ONLY FOR CUTTING**

**TOOL HOLDERS:**-SH-100

-SH-101

-SH-102

-SH-200

**CARBIDE BITS:** -A

-B

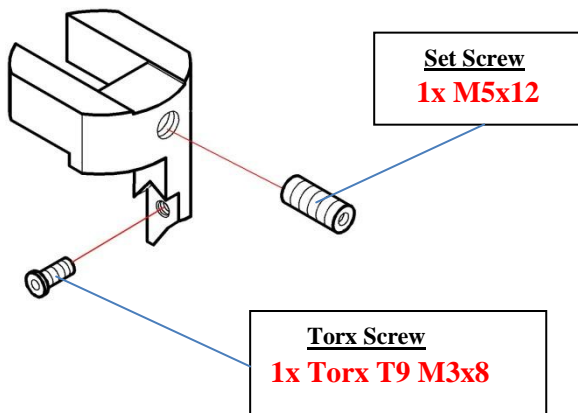
**0° RAKE CUTTING ANGLE**

**PROVALVE®**

**РЕЗЦЕДЕРЖАТЕЛИ**

**SH - 1**

Machining Capacity  
**Ø25 to Ø42 mm**



**ONLY FOR CUTTING**

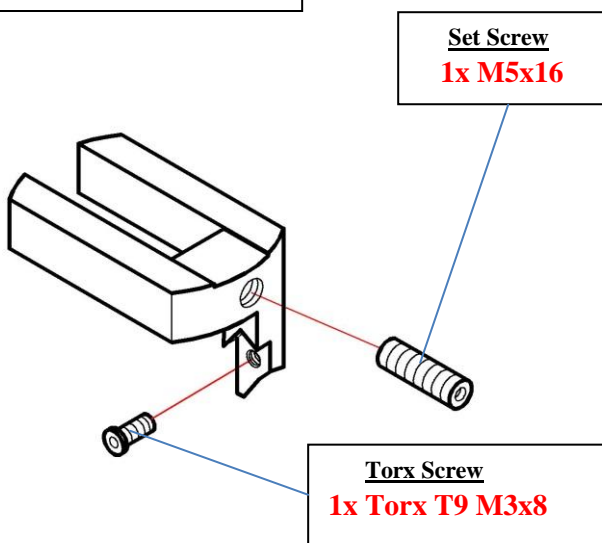
**TOOL HOLDERS:**-SH-100  
-SH-101  
-SH-102  
-SH-200

**CARBIDE BITS:** -A  
-B

**0° RAKE CUTTING ANGLE**

**SH - 2**

Machining Capacity  
**Ø40 to Ø58 mm**



**ONLY FOR CUTTING**

**TOOL HOLDERS:**-SH-100  
-SH-101  
-SH-102  
-SH-200

**CARBIDE BITS:** -A  
-B

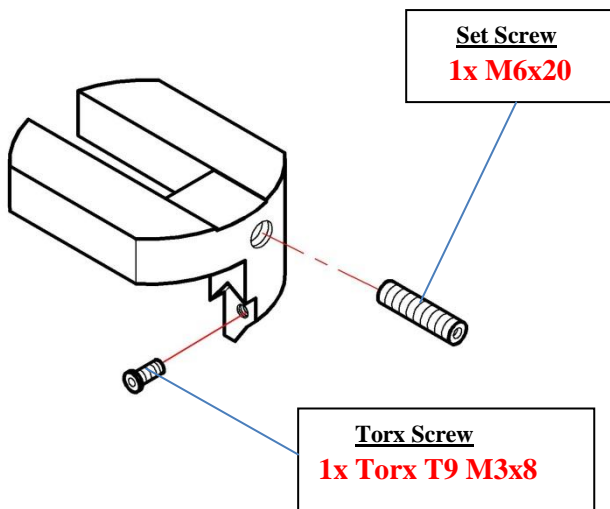
**0° RAKE CUTTING ANGLE**

# PROVALVE®

## РЕЗЦЕДЕРЖАТЕЛИ

### SH - 3

Machining Capacity  
Ø40 to Ø75 mm



### ONLY FOR CUTTING

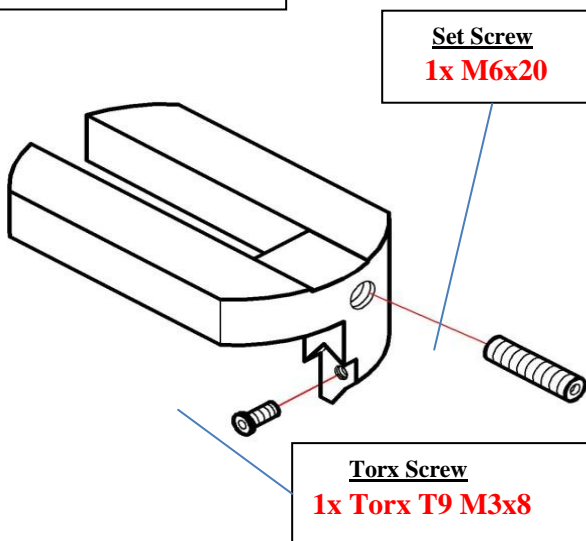
TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BITS: -A  
-B

0° RAKE CUTTING ANGLE

### SH - 4

Machining Capacity  
Ø50 to Ø100



### ONLY FOR CUTTING

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BITS: -A  
-B

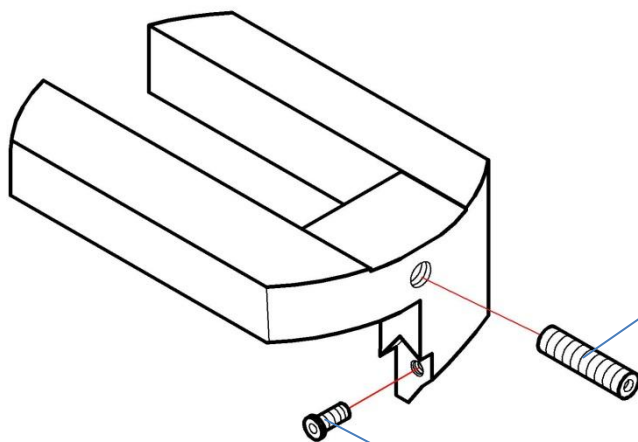
0° RAKE CUTTING ANGLE

**PROVALVE®**

**РЕЗЦЕДЕРЖАТЕЛИ**

**SH - 5**

Machining Capacity  
**Ø70 to Ø120 mm**



**ONLY FOR CUTTING**

**TOOL HOLDER: -SH-500**

**CARBIDE BITS: -A  
-B**

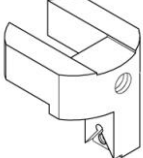
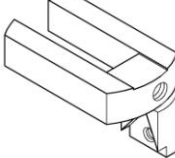
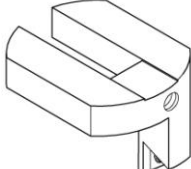
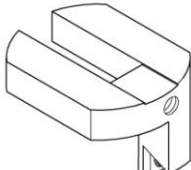
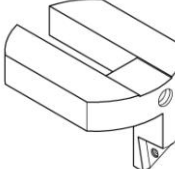
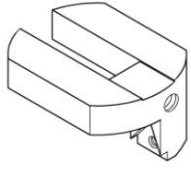
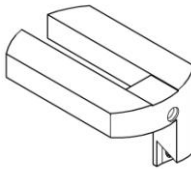
**0° RAKE CUTTING ANGLE**

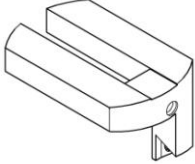
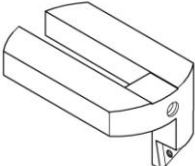
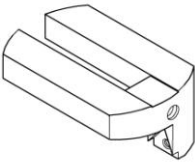
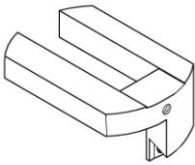
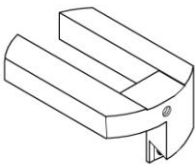
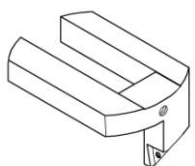
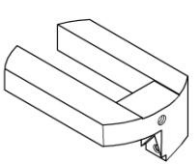
Set Screw  
**1x M6x20**

Torx Screw  
**1x Torx T9 M3x8**

**PROVALVE®**

СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

	<b>SH - 190</b>	SPECIAL CUTTING BIT HOLDER	p.23
	<b>SH - 290</b>	SPECIAL CUTTING BIT HOLDER	p.23
	<b>SH - 320</b>	SPECIAL CUTTING BIT HOLDER	p.24
	<b>SH - 330</b>	SPECIAL CUTTING BIT HOLDER	p.24
	<b>SH - 345</b>	SPECIAL CUTTING BIT HOLDER	p.25
	<b>SH - 390</b>	SPECIAL CUTTING BIT HOLDER	p.25
	<b>SH - 420</b>	SPECIAL CUTTING BIT HOLDER	p.26

	<b>SH - 430</b>	SPECIAL CUTTING BIT HOLDER	p.26
	<b>SH - 445</b>	SPECIAL CUTTING BIT HOLDER	p.27
	<b>SH - 490</b>	SPECIAL CUTTING BIT HOLDER	p.27
	<b>SH - 520</b>	SPECIAL CUTTING BIT HOLDER	p.28
	<b>SH - 530</b>	SPECIAL CUTTING BIT HOLDER	p.28
	<b>SH - 545</b>	SPECIAL CUTTING BIT HOLDER	p.29
	<b>SH - 590</b>	SPECIAL CUTTING BIT HOLDER	p.29

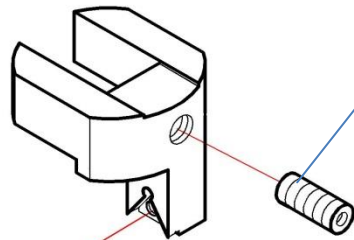
**PROVALVE®**

**СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ**

**SH - 190**

Counterboring Capacity  
**Ø30 to Ø48 mm**

Set Screw  
**1x M5x12**



Torx Screw  
**1x Torx T8 M2.5x8**

**ONLY FOR COUNTERBORING**

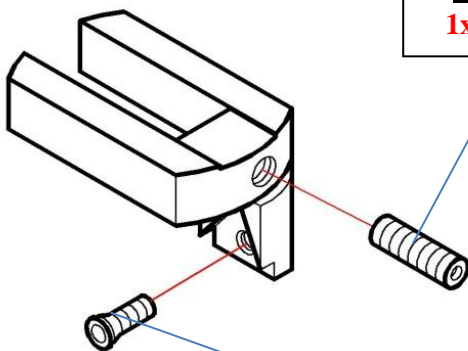
**TOOL HOLDERS:**-SH-100  
-SH-101  
-SH-102  
-SH-200

**CARBIDE BIT:** - TCMT11

**SH - 290**

Counterboring Capacity  
**Ø38 to Ø65 mm**

Set Screw  
**1x M5x16**



Torx Screw  
**1x Torx T15 M3.5x11**

**ONLY FOR COUNTERBORING**

**TOOL HOLDERS:**-SH-100  
-SH-101  
-SH-102  
-SH-200

**CARBIDE BIT:** -TCMT16



**PROVALVE®**

СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 320**

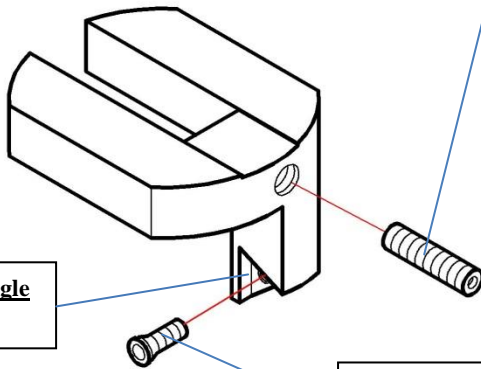
Machining Capacity  
Ø40 to Ø85 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERS:-SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Cutting angle  
20°

Torx Screw  
1x Torx T15 M3.5x11

**SH - 330**

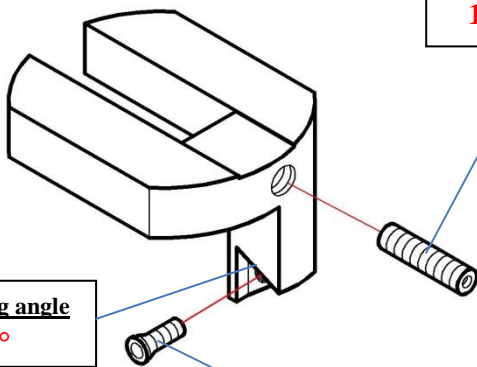
Machining Capacity  
Ø40 to Ø85 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERS:-SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Cutting angle  
30°

Torx Screw  
1x Torx T15 M3.5x11

**PROVALVE®**

СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 345**

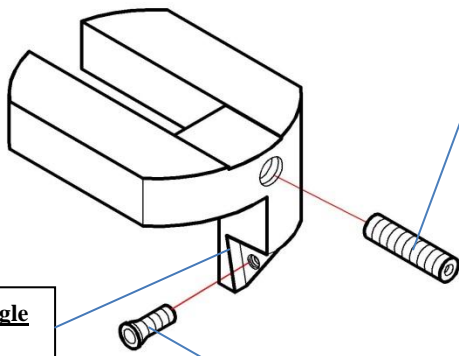
Machining Capacity  
Ø40 to Ø85 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERW: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Cutting angle  
45°

Torx Screw  
1x Torx T15 M3.5x11

**SH - 390**

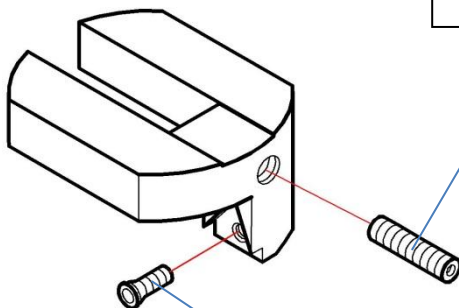
Counterboring Capacity  
Ø40 to Ø85 mm

Set Screw  
1x M6x20

ONLY FOR COUNTERBORING

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Torx Screw  
1x Torx T15 M3.5x11

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СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 420**

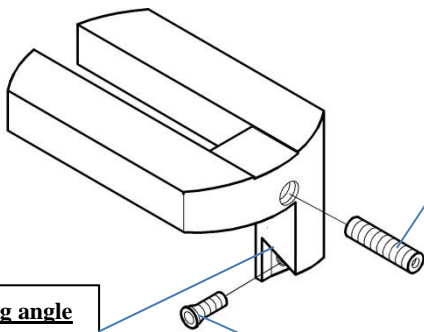
Machining Capacity  
Ø50 to Ø100 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Cutting angle  
20°

Torx Screw  
1x Torx T15 M3.5x11

**SH - 430**

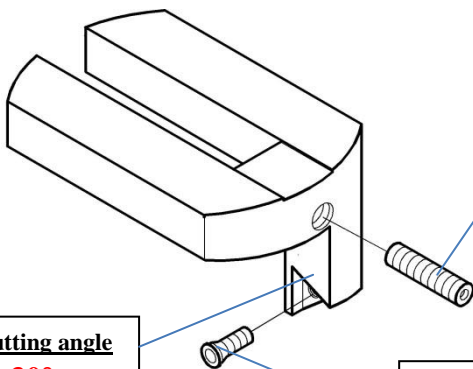
Machining Capacity  
Ø50 to Ø100 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16



Cutting angle  
30°

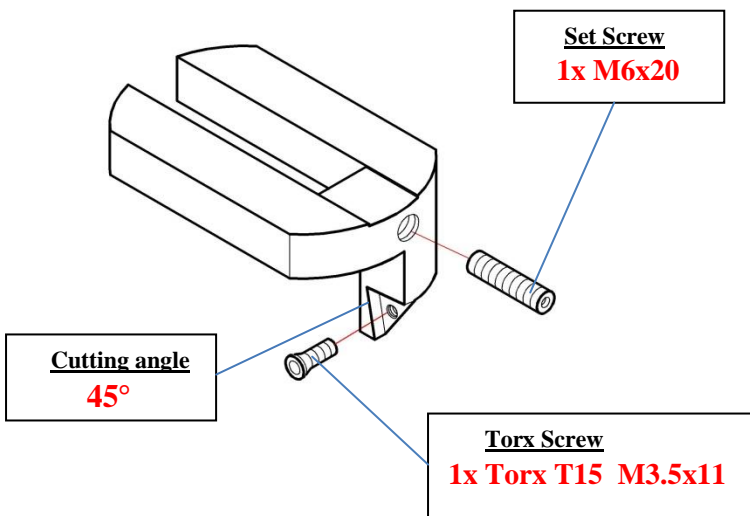
Torx Screw  
1x Torx T15 M3.5x11

**PROVALVE®**

СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 445**

Machining Capacity  
**Ø50 to Ø100 mm**



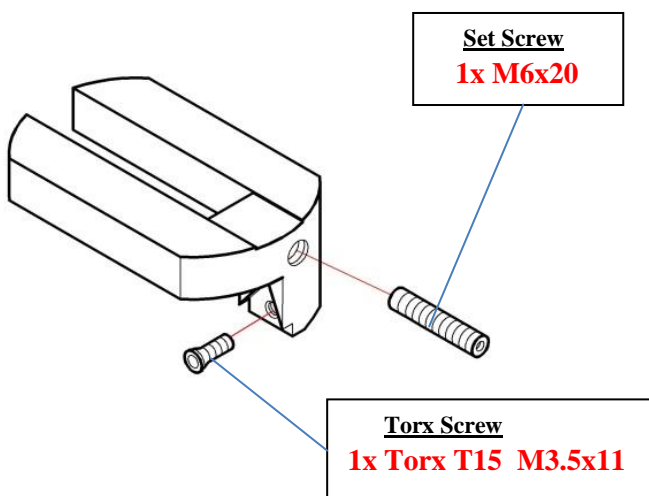
ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16

**SH - 490**

Counterboring Capacity  
**Ø50 to Ø100 mm**



ONLY FOR COUNTERBORING

TOOL HOLDERS: -SH-300  
-SH-400

CARBIDE BIT: - TCMT16

**PROVALVE®**

СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 520**

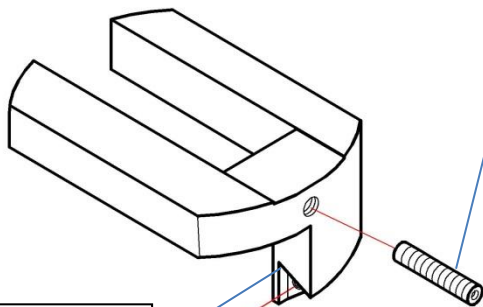
Machining Capacity  
Ø75 to Ø120 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDER: -SH-500

CARBIDE BIT: - TCMT16



Cutting angle  
20°

Torx Screw  
1x Torx T15 M3.5x11

**SH - 530**

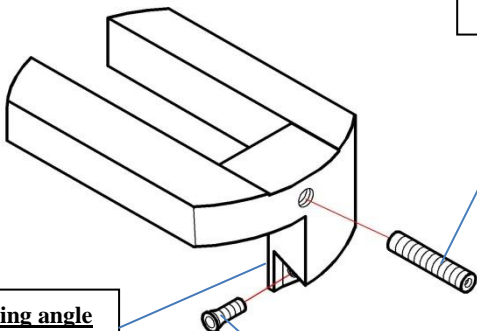
Machining Capacity  
Ø75 to Ø120 mm

Set Screw  
1x M6x20

ONLY FOR CUTTING SINGLE ANGLE

TOOL HOLDER: -SH-500

CARBIDE BIT: - TCMT16



Cutting angle  
30°

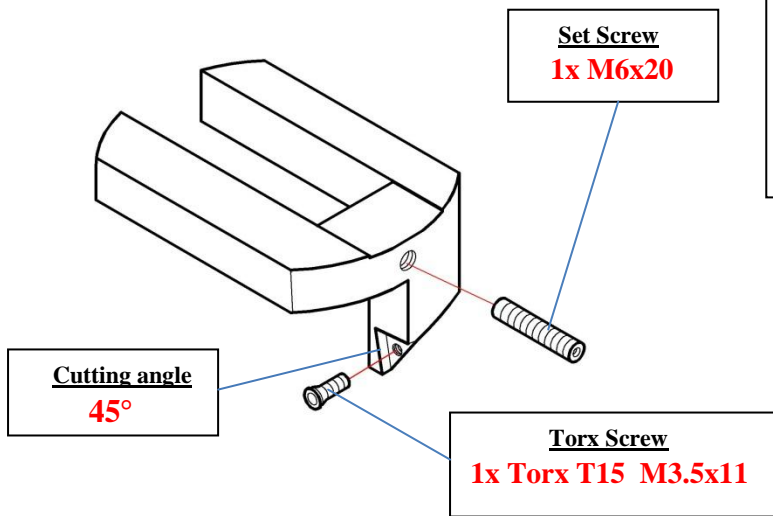
Torx Screw  
1x Torx T15 M3.5x11

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СПЕЦИАЛЬНЫЕ РЕЗЦЕДЕРЖАТЕЛИ

**SH - 545**

Machining Capacity  
**Ø50 to Ø100 mm**



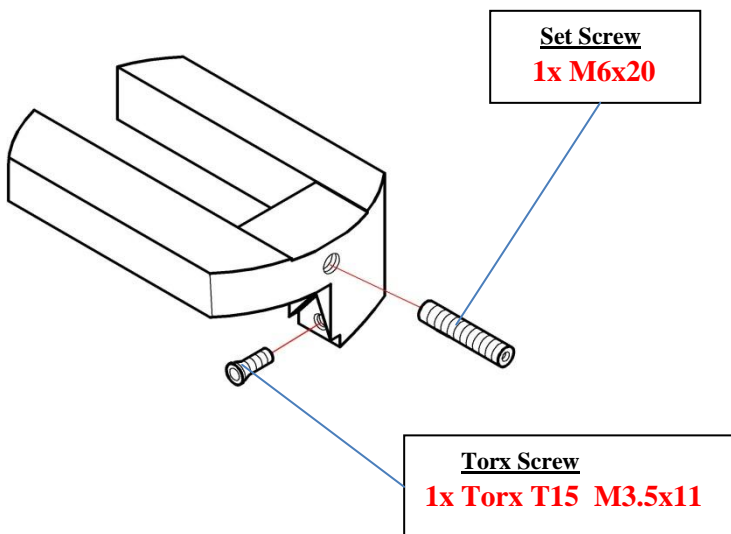
**ONLY FOR CUTTING SINGLE ANGLE**

**TOOL HOLDER: -SH-500**

**CARBIDE BIT: - TCMT16**

**SH - 590**

Counterboring Capacity  
**Ø50 to Ø100 mm**



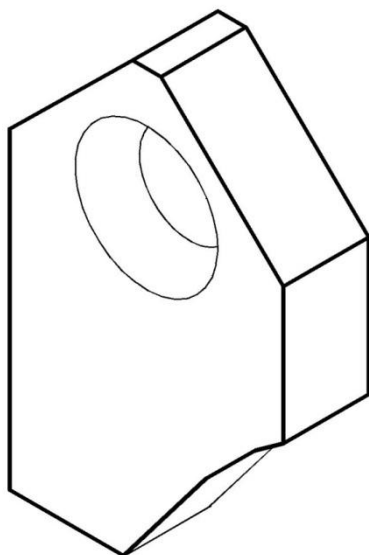
**ONLY FOR COUNTERBORING**

**TOOL HOLDER: -SH-500**

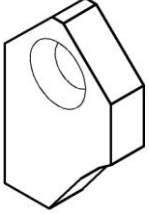
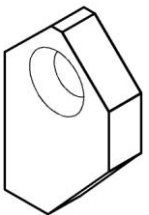
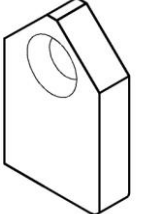
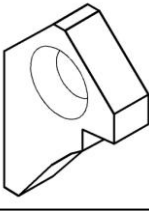
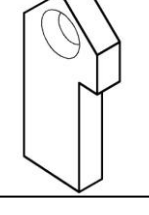
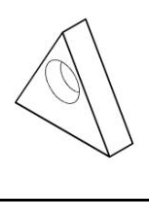
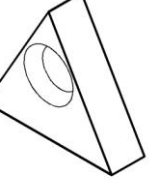
**CARBIDE BIT: - TCMT16**

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ТВЕРДОСПЛАВНЫЕ РЕЗЦЫ

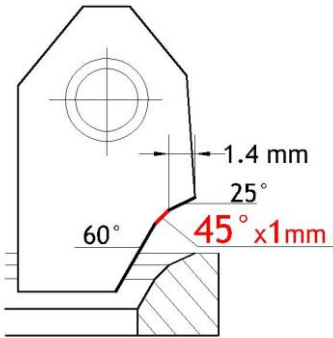


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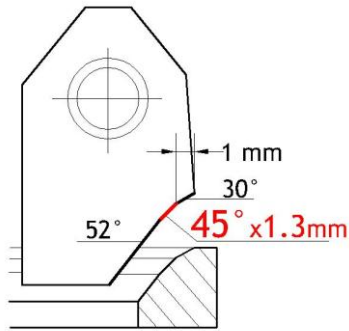
	<p><b>A</b></p>	<p>STANDARD CUTTING BIT FOR ALMOST ANY CONVENTIONAL <b>3 ANGLES VALVE SEAT</b> PROFILE</p>	<p>p.30 p.31 p.32</p>
	<p><b>A</b></p>	<p>STANDARD CUTTING BIT FOR ALMOST ANY CONVENTIONAL <b>SINGLE ANGLE VALVE SEAT</b> PROFILE</p>	<p>p.33</p>
	<p><b>A</b></p>	<p><b>COUNTERBORING</b> CUTTING BIT FOR VALVE SEAT MACHINING</p>	<p>p.33</p>
	<p><b>B</b></p>	<p>STANDARD CUTTING BIT FOR SMALL <b>3 ANGLES VALVE SEAT</b> PROFILE</p>	<p>p.32</p>
	<p><b>B</b></p>	<p><b>COUNTERBORING</b> CUTTING BIT FOR SMALL VALVE SEAT MACHINING</p>	<p>p.33</p>
	<p><b>TCMT11</b></p>	<p><b>COUNTERBORING</b> CUTTING BIT FOR STANDARD VALVE SEAT MACHINING</p>	<p>p.33</p>
	<p><b>TCMT16</b></p>	<p><b>COUNTERBORING AND SINGLE ANGLE</b> CUTTING BIT FOR MEDIUM AND LARGE DIA. VALVE SEAT MACHINING</p>	<p>p.33</p>



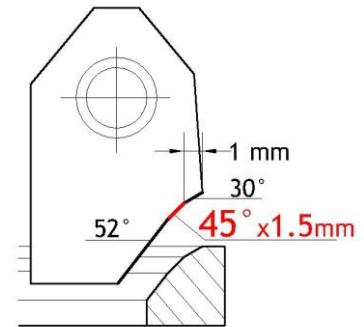
3-УГЛОВЫЕ ТВЕРДОСПЛАВНЫЕ РЕЗЦЫ - **45°**



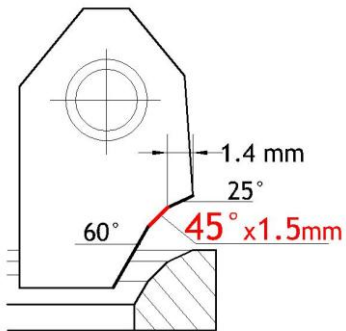
**ANG4510**



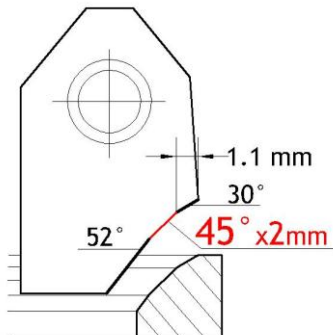
**PRV413A1**



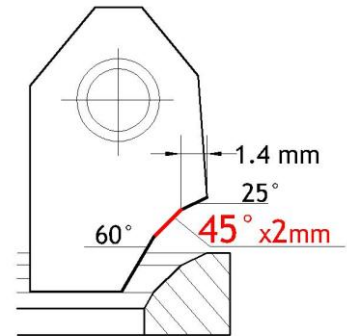
**PRV415A1**



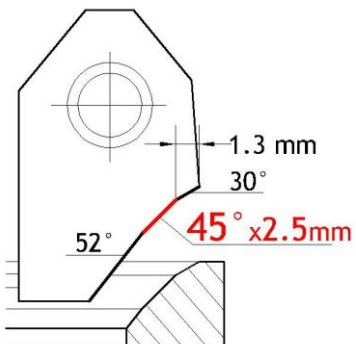
**ANG4515**



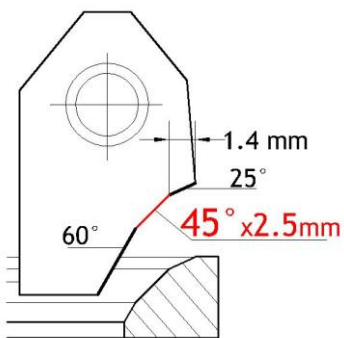
**PRV420A1**



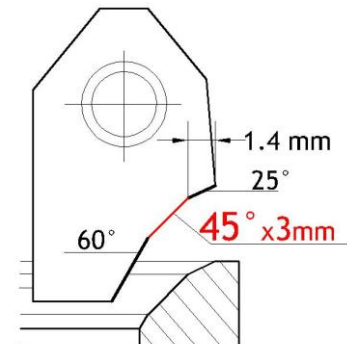
**ANG4520**



**PRV425A1**

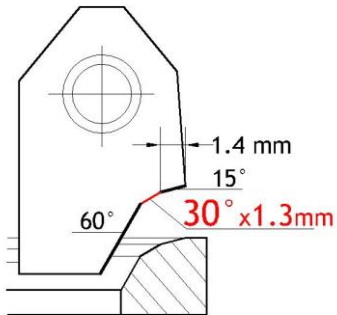


**ANG4525**

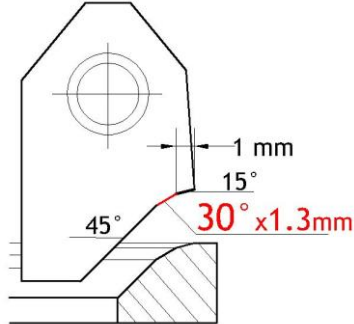


**ANG4530**

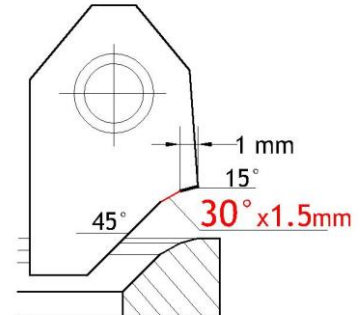
3-УГЛОВЫЕ ТВЕРДОСПЛАВНЫЕ РЕЗЦЫ - **30°**



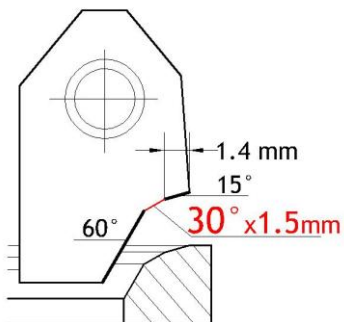
**ANG3015**



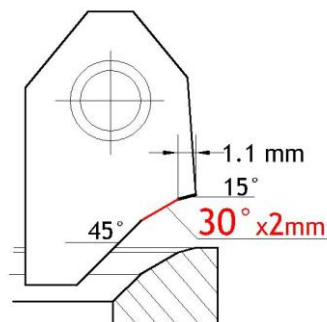
**PRV313A1**



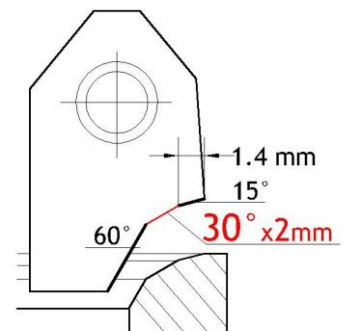
**PRV315A1**



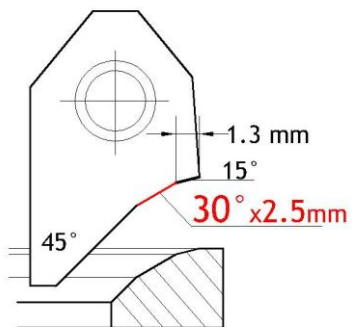
**ANG3015**



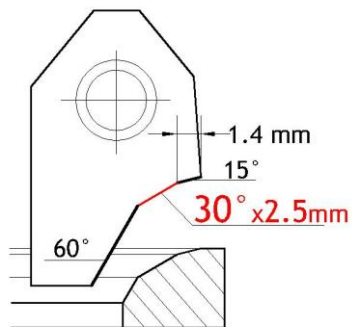
**PRV320A1**



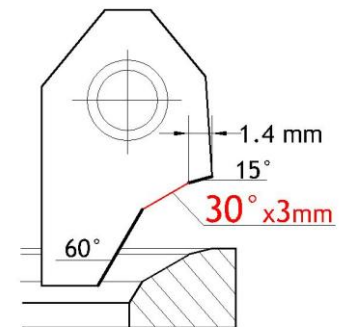
**ANG3020**



**PRV325A1**



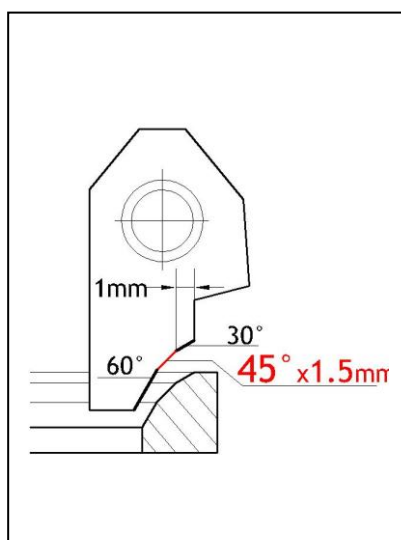
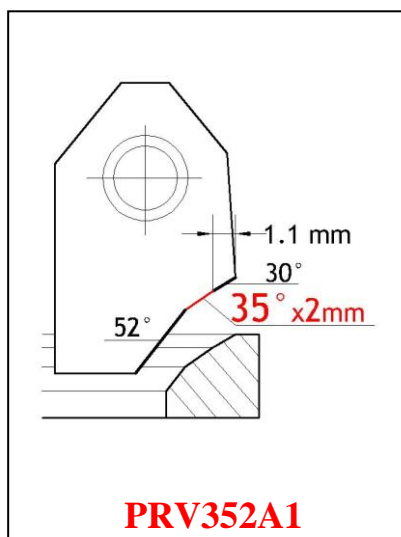
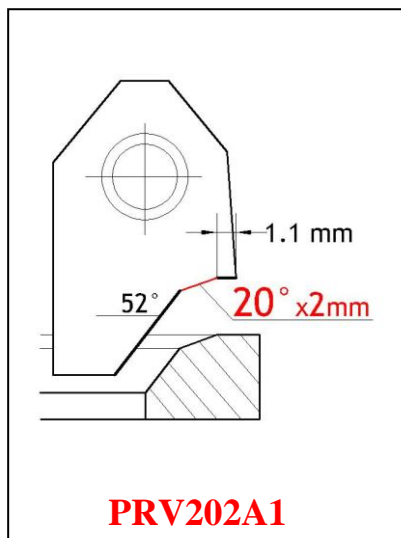
**ANG3025**



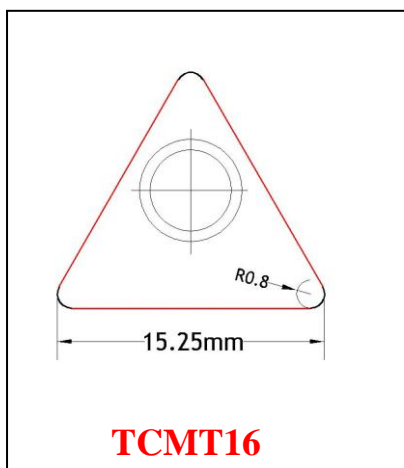
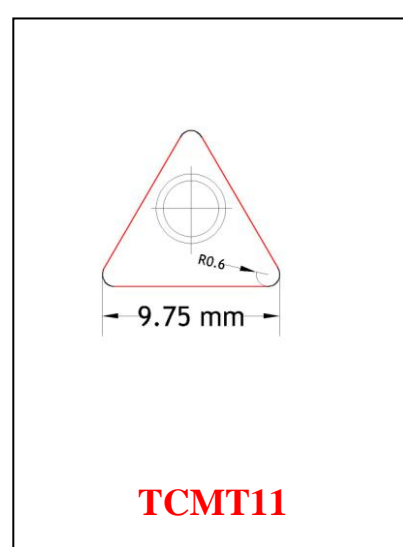
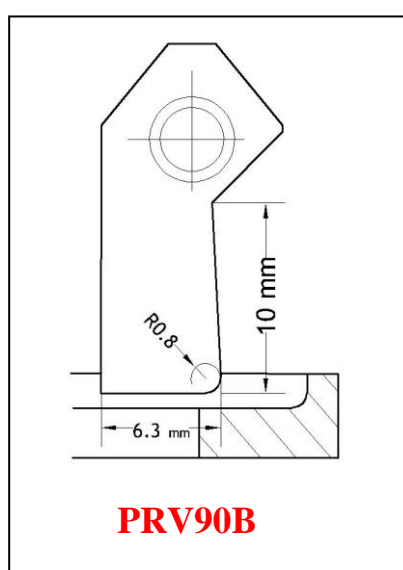
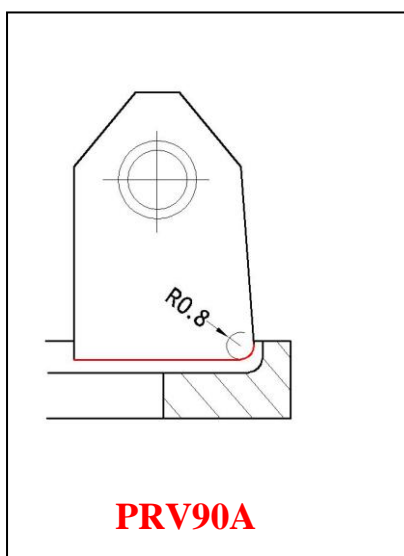
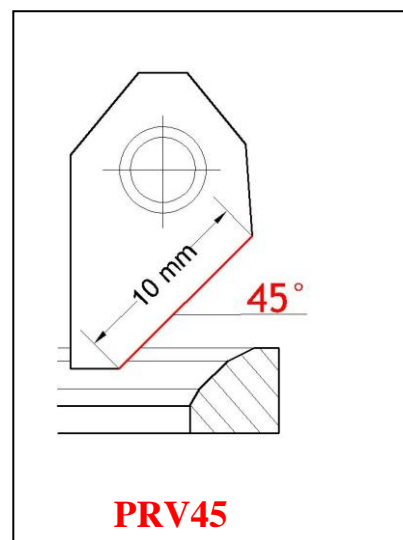
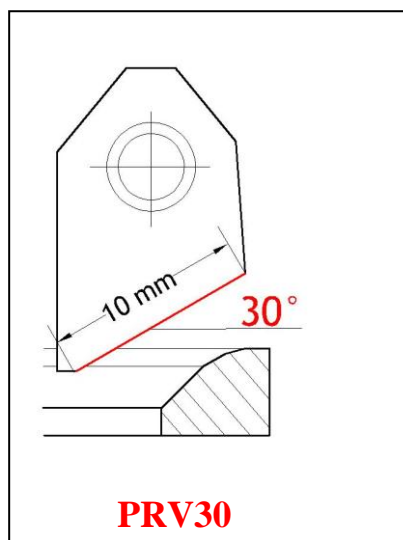
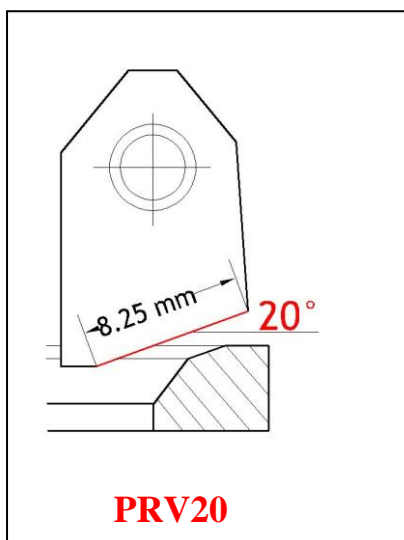
**ANG3030**

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**СПЕЦИАЛЬНЫЕ 3-УГЛОВЫЕ ТВЕРДОСПЛАВНЫЕ РЕЗЦЫ**

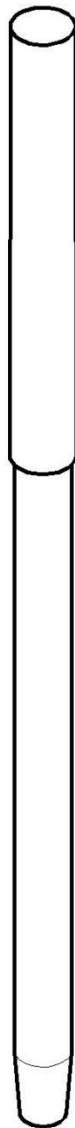


**ОДНОУГЛОВЫЕ ТВЕРДОСПЛАВНЫЕ РЕЗЦЫ**








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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ



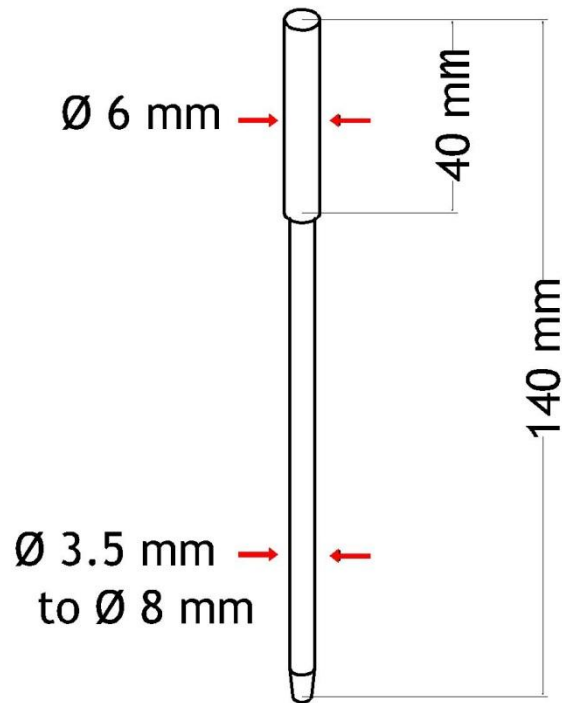
**PROVALVE®**

	<b>CPS</b>	CARBIDE PILOT FOR SMALL DIA. GUIDE	p.34
	<b>CP</b>	CARBIDE PILOT FOR MEDIUM DIA. GUIDE	p.35
	<b>CPL</b>	CARBIDE PILOT FOR LARGE DIA. GUIDE	p.36
	<b>CPXL</b>	CARBIDE PILOT FOR EXTRA LARGE- LONG DIA. GUIDE	p.37
	<b>CPB</b>	CARBIDE PILOT FOR BIG-LONG DIA. GUIDE	p.38

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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ

**CPS**



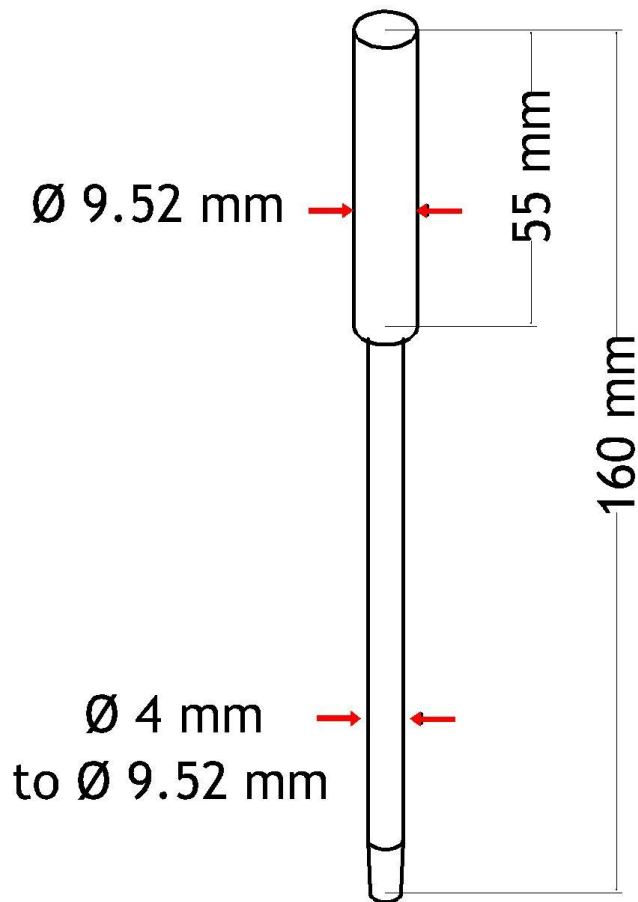
ONLY

TOOL HOLDER: -SH-101

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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ

**CP**



ONLY

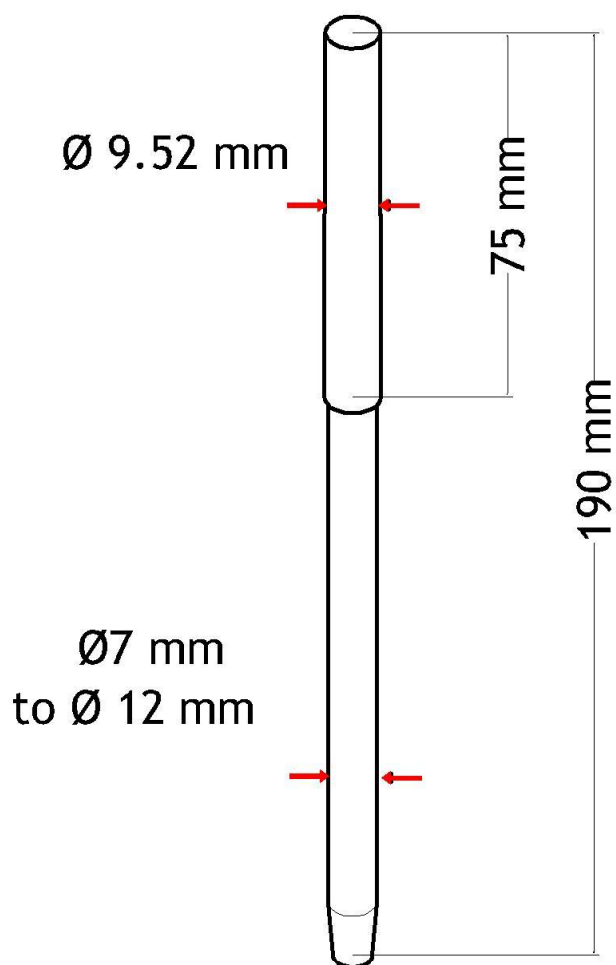
**TOOL HOLDER:** -SH-100  
-SH-102  
-SH-200  
-SH-300  
-SH-400



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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ

**CPL**



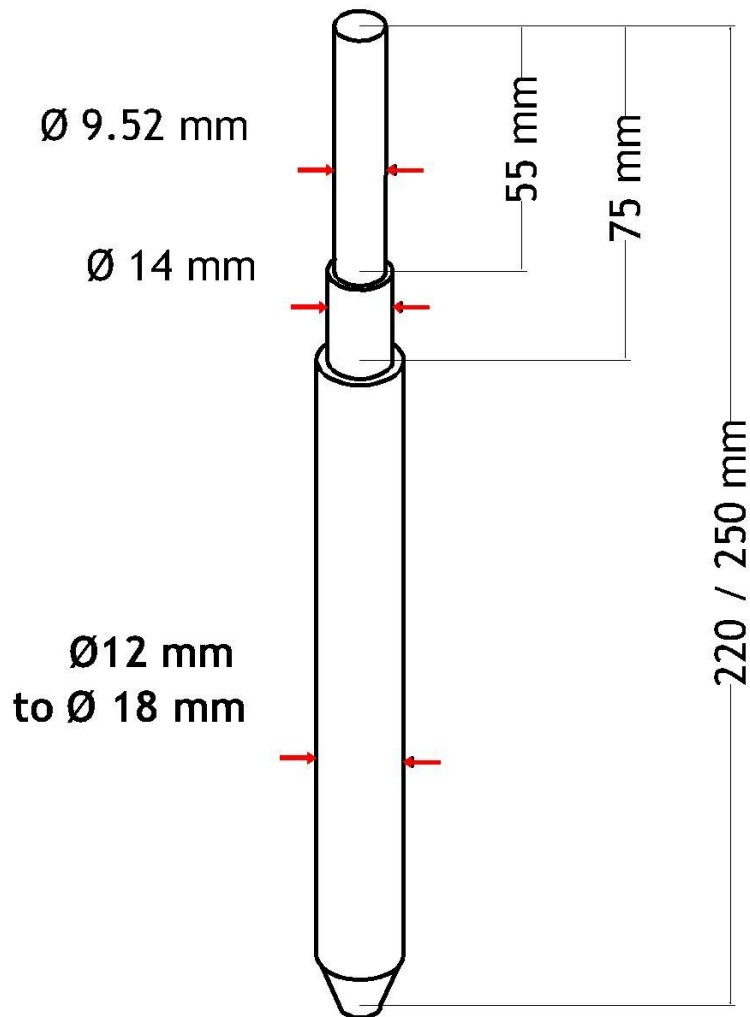
**ONLY**

**TOOL HOLDER:** -SH-100  
-SH-102  
-SH-200  
-SH-300  
-SH-400

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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ

**CPXL**



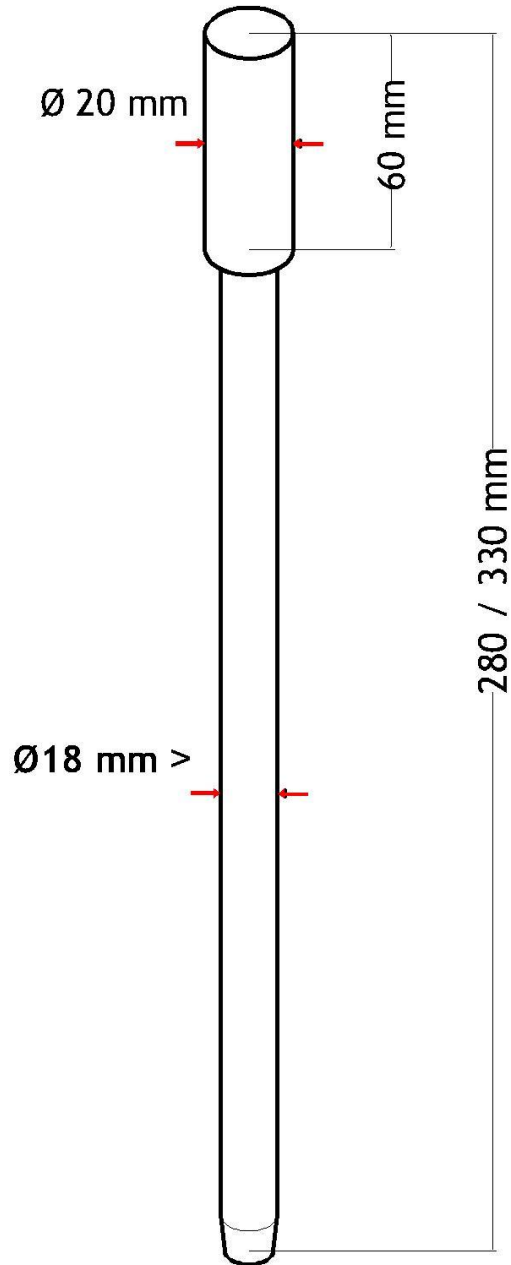
ONLY

**TOOL HOLDER:** -SH-100  
-SH-102  
-SH-200  
-SH-300  
-SH-400

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ТВЕРДОСПЛАВНЫЕ ПИЛОТЫ

**CPB**



**ONLY**  
**TOOL HOLDER: -SH-500**