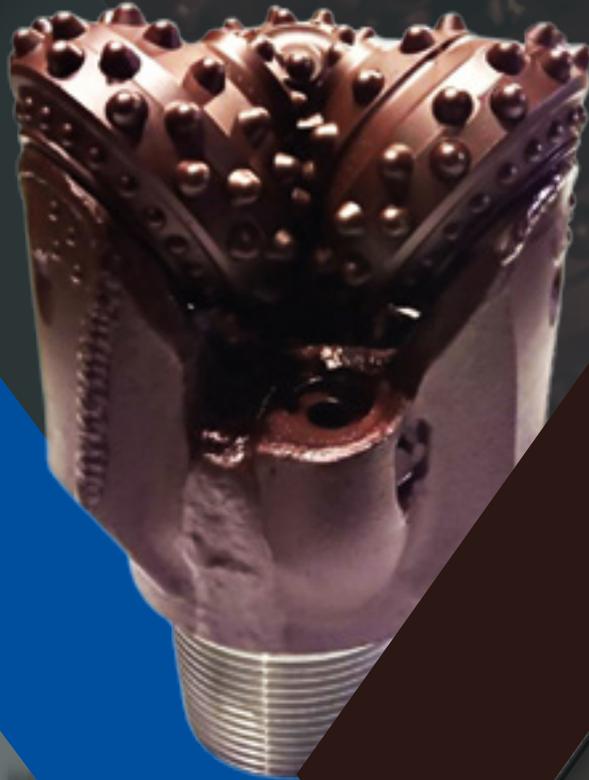


A pioneer of bit production in Russia  
90 years involvement in the industry



# PRODUCT CATALOGUE





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## ABOUT THE COMPANY

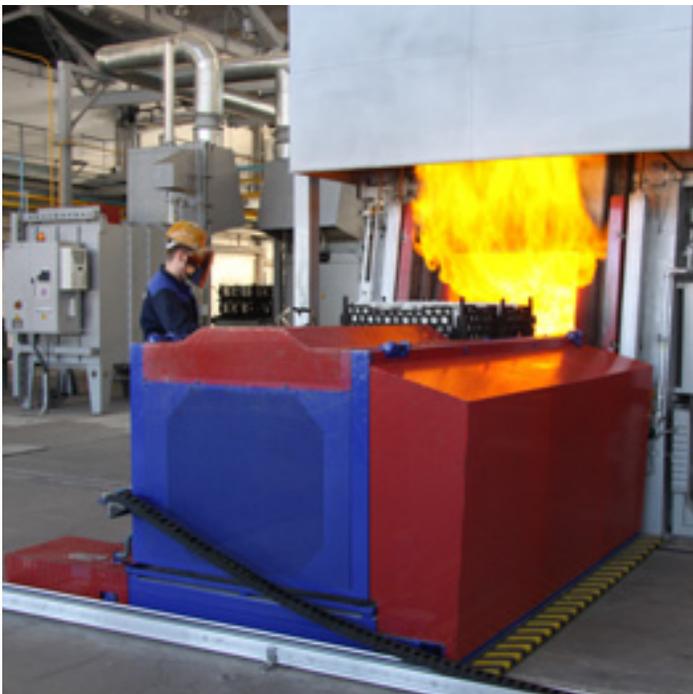
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Uralburmash JSC (UBM) is one of the largest Russian manufacturers of rock cutting tools for the oil and gas, mining and construction industries.

Uralburmash is

- a pioneer of bit production in Russia;
- 90 years involvement in the industry;
- over 16.5 million bits in sizes 3" to 20" manufactured;
- a strategic partner of the Volgaburmash JSC (VBM).



As experts, we are trusted by our customers.

We develop and manufacture cost-effective and efficient products highly evaluated by our customers.

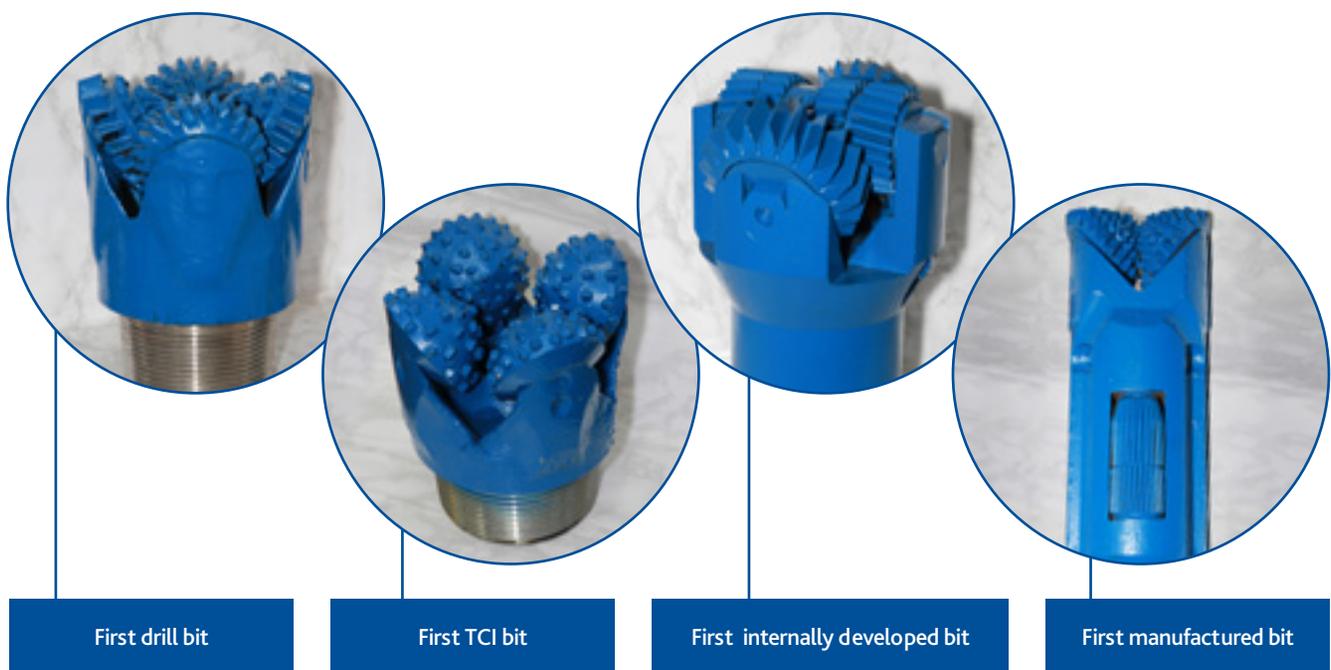
## OUR HISTORY

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- 1743** — the foundation of the ironworks. The plant had a metallurgical profile for two centuries, it produced pig iron, strip and tire iron, forged nails. In addition, the plant produced wire and wire products, made stone crushers and road-trailed rollers.
- 1931** — the first domestic drill bit was manufactured, designed according to proven specifications; first 807 bits were produced.
- 1941** — the press-forging shop was put into operation, and the first drill head was produced.
- 1956** — the first millionth drill bit was manufactured.
- 1957** — the in-house heat treatment plant was inaugurated.
- 1960** — start of production of geological exploration bits.
- 1970** — new block of main production bays was put into operation.
- 1979** — the largest number of bits per year was produced – 500,000 pieces, and such production volumes in a year have never been achieved by any other bit plant in the world at the time.
- 1981** — a drill head 2V-K212/6-TKZ was used when drilling the super-deep Kola well at a depth of 12 km.
- 1987** — Verkhneserginsky bit plant was renamed as Ural Drilling Machine-building Plant.
- 1990** — the plant trademark was registered in the State Register of Trademarks of the USSR.
- 1993** — the state enterprise Ural Drilling Machine-building Plant was transformed into Uralburmash joint-stock company of the open type.
- 1996** — Uralburmash joint-stock company of the open type was renamed into Uralburmash OJSC.

- 2007** — Uralburmash OJSC becomes part of VBM-group. Implementation of the technical re-equipment plan.
- 2007** — continuous updating of manufacturing equipment till 2020.
- 2008** — Uralburmash switches to a new system for marking bits and adopts dark cherry company livery. The new designation system contains complete information about the bit design, which makes it easier to select bits for specific geological and technical drilling conditions.
- 2012** — launch of a new in-house heat treatment plant.
- 2014** — modernization of press-forging production.
- 2017** — production of pneumatic DTH bits was introduced.
- 2019** — introduction of a new technology for the production of bits using state of the art equipment.



During years of operations, the Uralburmash plant has manufactured more than 16.5 million roller cone bits and now it is a modern and dynamically developing specialized high-tech enterprise with a complete production cycle of drilling tools, complete production infrastructure and employing highly qualified personnel.

# QUALITY MANAGEMENT



Since 1999, the Quality Management System (QMS) has been effectively functioning at Uralburmash. Currently, the UBM QMS has passed certification, thereby confirming the compliance of GOST R ISO 9001-2015.



QMS covers the entire life cycle of drill tools production, starting with the receipt of the order and bits designing and ending with its branded packaging. The QMS ensures traceability of products at all stages of manufacturing, control and assembling of the drilling bits, including materials and components used.

UBM drill tools are certified in compliance with the Technical Regulations of the Customs Union 'On safety of machines and equipment' (TP TC 010/2011), and meet the State Standards GOST 20692-2003 'Roller cone bits. Specifications'.

The current UBM quality management system is an effective tool for improvement of drilling tool performance. Due to the integrated approach to quality, UBM drilling equipment fully complies with international quality as well as customer's requirements and expectations.



## DRILLING TOOLS

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We manufacture drilling tools for the mining, oil & gas and construction industries.



### **AirStandart (AIRS)**

roller cone bits  
with air flush

### **AirVector (AIRV)**

roller cone bits  
with air flush

### **Standart (STD)**

roller cone bits  
with mud flush

## BIT STAMPING

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This information is marked at the pin/box face of UBM drill bit:

- bit notation key
- serial number

## NOTATION KEY

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**215,9**

Bit size, mm

**(8 1/2)**

Bit size, inch

**AIRV**

Product line

- AirStandart (AIRS)
- AirVector (AIRV)
- Standart (STD)

**632**

IADC code

## IADC CLASSIFICATION SYSTEM FOR ROLLER CONE BITS

The IADC classification system is used to choose the best roller cone bit for the appropriate geological conditions. It's based on the 4-character code describing both a bit design and a formation/rock type which can be drilled through by a suitable bit.

Groups	Drill bit application in different formations				3 <sup>rd</sup> IADC character						
	1 <sup>st</sup> IADC character	2 <sup>nd</sup> IADC character	GOST 20692		1	2	3	4	5	6	7
					Bearing						
					Open bearing			Sealed bearing			
Milled teeth bits	1	1	M	Soft formations	Roller bearing without TCI on the cones gage (does not apply in mining industry)	Open roller bearing with air flush	Roller bearing with TCI on the cones gage (does not apply in mining industry)	Journal bearing without TCI on the cones gage (does not apply in mining industry)	Roller bearing with TCI on the cones gage	Journal bearing without TCI on the cones gage (does not apply in mining industry)	Journal bearing with TCI on the cones gage
		2									
		3	MC	Soft formations with medium interlayers							
		4									
	2	1	C	Medium formations							
		2									
		3	CT	Medium formations with hard interlayers							
		4									
	3	1	T	Hard formations							
		2									
		3									
		4									
Tungsten carbide insert bits	4	1	M3	Soft abrasive formations							
		2									
		3									
		4									
	5	1	MC3	Soft abrasive formations with medium interlayers							
		2									
		3									
	6	4	C3	Medium abrasive formations							
		1	T3	Hard abrasive formations							
		2									
		3									
	7	4	TK3	Hard abrasive formations with extra-hard interlayers							
		1									
		2									
		3									
	8	4	K	Very hard formations							
1											
2											
3											
8	1	OK	Extra-hard formations								
	2										
	3										

- **1<sup>st</sup> IADC numeric character** refers to cutting structure series.

**Series 1-3** refer to milled teeth bits. **Series 4-8** refer to tungsten carbide insert bits. Within steel teeth and insert bit groups formations become harder and more abrasive as the series numbers increase.

- **2<sup>nd</sup> IADC numeric character** refers to the bit's cutting structure type.

Each series is divided into types depending on formation hardness: **1** refers to bits designed for the softest formation within the series; **4** — for the hardest one.

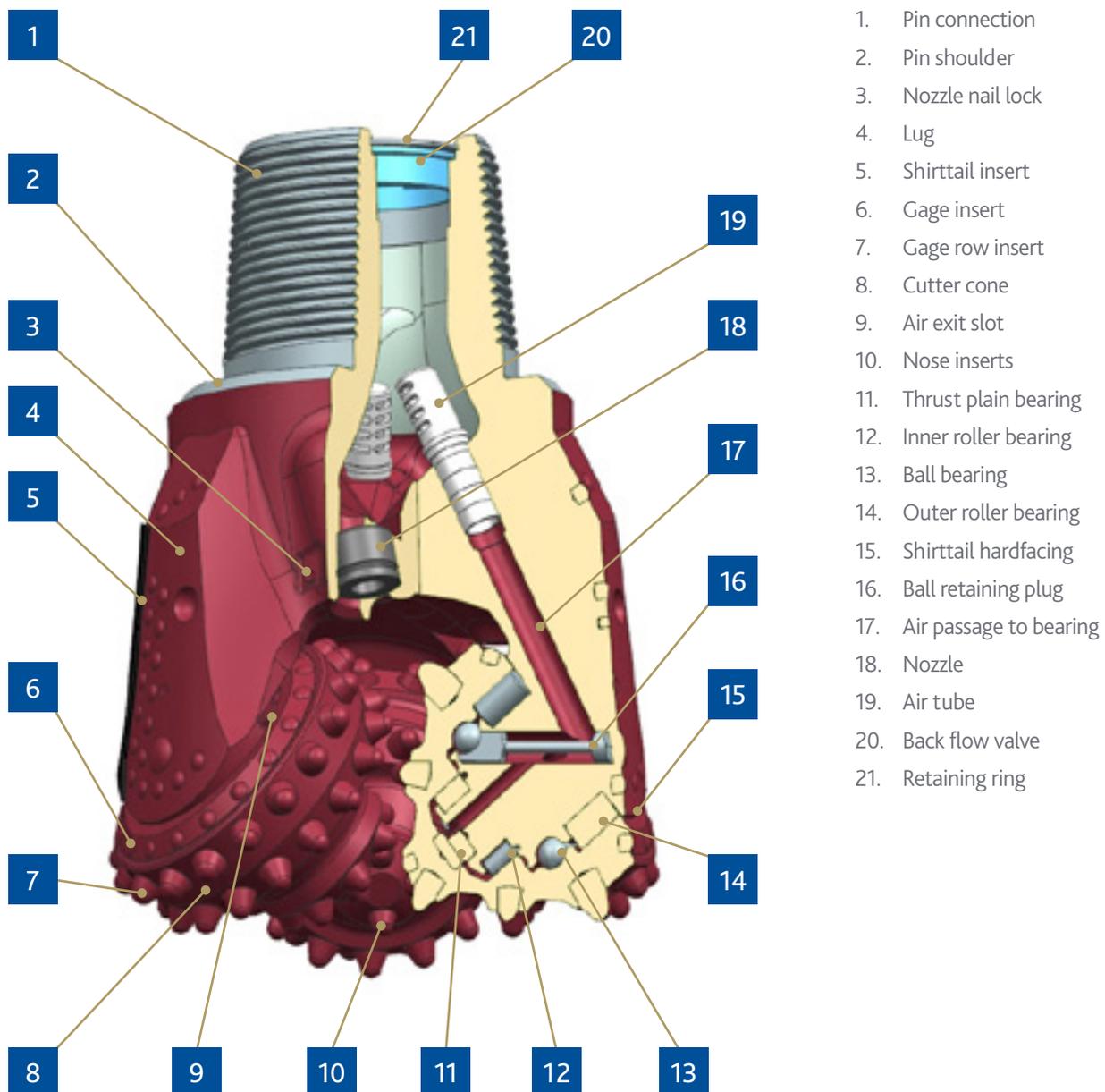
- **3<sup>rd</sup> IADC numeric character** means bearing design and availability of tungsten carbide inserts on the cone.
- **4<sup>th</sup> IADC alphabetic character** refers to available features.

16 alphabetic characters are used to indicate special cutting structures, bearings, nozzle configurations and bit body protection. Some bit designs may have more than one of optional features, then the most critical feature is indicated.

4 <sup>th</sup> IADC alphabetic character Available features	
A	air flush
B	sealed bearing, special seal design for higher RPM
C	central nozzle
D	special cutting structure minimizing borehole deviation
E	extended nozzles
G	enhanced shirrtail protection with hardfacing or TCI
H	bits for horizontal or directional drilling
J	jet bits for drilling tangent sections
L	leg pads with TCI
M	motor application
S	standard steel teeth bits
T	two-cone bits
W	improved cutting structure
X	mostly chisel inserts
Y	conical inserts
Z	other shape inserts

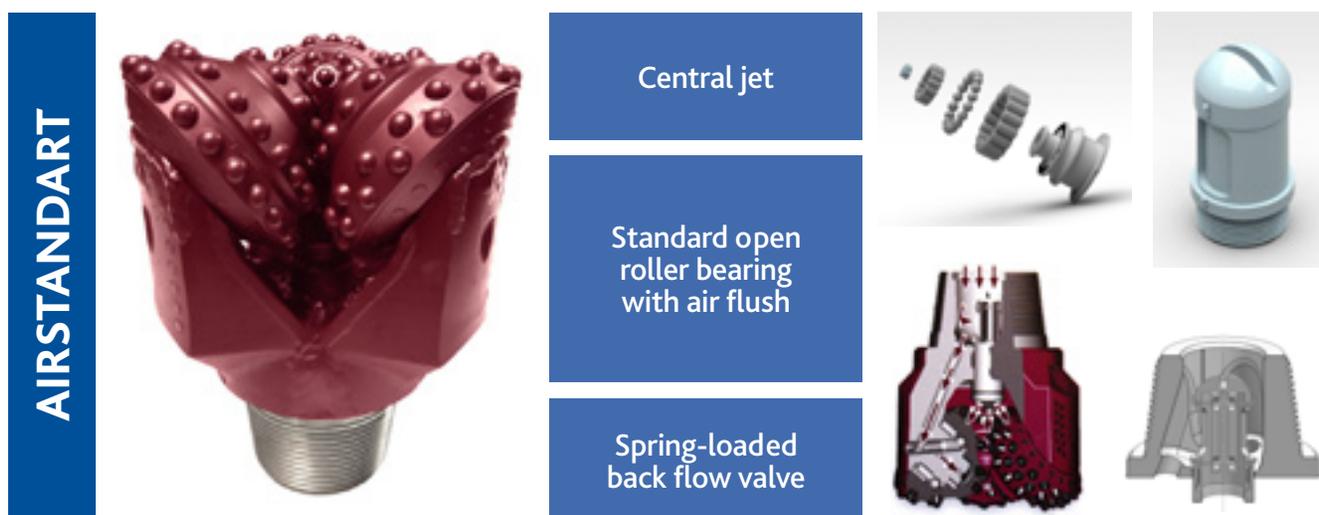
## ROLLER CONE BITS WITH AIR FLUSH

Tricone roller bits **AirStandart (AIRS)** and **AirVector (AIRV)** manufactured by Uralburmash are used for rotary blast hole drilling with air flush.





## AIRSTANDART (AIRS)



Bit identification	Bit size, inch	IADC code	Connecting thread (API)	Gross weight, kg	Shipping dimensions, mm
1	2	3	4	5	6
75,0 (2 61/64) AIRS542	2 61/64	542X	Pin N-Rod	3.8	210 x 210 x 200
98,4 (3 7/8) AIRS522	3 7/8	522X	Pin 2 3/8 Reg	4.8	210 x 210 x 200
104,8 (4 1/8) AIRS522	4 1/8	522X	Pin 2 3/8 Reg	5.3	210 x 210 x 200
114,3 (4 1/2) AIRS332	4 1/2	332	Pin 2 3/8 Reg	6.9	170 x 170 x 260
114,3 (4 1/2) AIRS522	4 1/2	522X	Pin 2 3/8 Reg	7	170 x 170 x 260
120,6 (4 3/4) AIRS332	4 3/4	332	Pin 2 7/8 Reg	8.5	170 x 170 x 260
120,6 (4 3/4) AIRS522	4 3/4	522	Pin 2 7/8 Reg	8.8	170 x 170 x 260
120,6 (4 3/4) AIRS542	4 3/4	542X	Pin 2 7/8 Reg	8.8	170 x 170 x 260
120,6 (4 3/4) AIRS622	4 3/4	622X	Pin 2 7/8 Reg	8.9	170 x 170 x 260
123,8 (4 7/8) AIRS522	4 7/8	522	Pin 2 7/8 Reg	8.9	170 x 170 x 260
133,4 (5 1/4) AIRS542	5 1/4	542X	Pin 2 7/8 Reg	11.2	190 x 190 x 330
139,7 (5 1/2) AIRS522	5 1/2	522X	Pin 3 1/2 Reg	12.3	190 x 190 x 330
139,7 (5 1/2) AIRS542	5 1/2	542X	Pin 3 1/2 Reg	12.3	190 x 190 x 330
139,7 (5 1/2) AIRS622	5 1/2	622 x	Pin 3 1/2 Reg	12.4	190 x 190 x 330
142,9 (5 5/8) AIRS522	5 5/8	522X	Pin 3 1/2 Reg	12.6	190 x 190 x 330
142,9 (5 5/8) AIRS542	5 5/8	542X	Pin 3 1/2 Reg	12.6	190 x 190 x 330
142,9 (5 5/8) AIRS622	5 5/8	622 x	Pin 3 1/2 Reg	12.7	190 x 190 x 330
146,0 (5 3/4) AIRS322	5 3/4	322	Pin 3 1/2 Reg	11	190 x 190 x 330
146,0 (5 3/4) AIRS622	5 3/4	622X	Pin 3 1/2 Reg	12	190 x 190 x 330
146,0 (5 3/4) AIRS832	5 3/4	832Y	Pin 3 1/2 Reg	12	190 x 190 x 330
149,2 (5 7/8) AIRS522	5 7/8	522X	Pin 3 1/2 Reg	13.3	190 x 190 x 330
149,2 (5 7/8) AIRS732	5 7/8	732Y	Pin 3 1/2 Reg	13.8	190 x 190 x 330
152,4 (6) AIRS332	6	332	Pin 3 1/2 Reg	13.4	190 x 190 x 330
152,4 (6) AIRS522	6	522X	Pin 3 1/2 Reg	13.4	190 x 190 x 330
158,7 (6 1/4) AIRS122	6 1/4	122	Pin 3 1/2 Reg	13.8	190 x 190 x 330

1	2	3	4	5	6
161,0 (6 11/32) AIRS322	6 11/32	322	Pin 3 1/2 Reg	13.4	190 x 190 x 330
161,0 (6 11/32) AIRS742	6 11/32	742Y	Pin 3 1/2 Reg	13.6	190 x 190 x 330
165,1 (6 1/2) AIRS322	6 1/2	322	Pin 3 1/2 Reg	13.8	190 x 190 x 330
165,1 (6 1/2) AIRS522	6 1/2	522X	Pin 3 1/2 Reg	13.8	190 x 190 x 330
165,1 (6 1/2) AIRS622	6 1/2	622X	Pin 3 1/2 Reg	14	190 x 190 x 330
171,4 (6 3/4) AIRS632	6 1/2	632X	Pin 3 1/2 Reg	15.5	190 x 190 x 330
190,5 (7 1/2) AIRS332	7 1/2	332	Pin 4 1/2 Reg	25.3	250 x 250 x 390
190,5 (7 1/2) AIRS632	7 1/2	632X	Pin 4 1/2 Reg	25.3	250 x 250 x 390
190,5 (7 1/2) AIRS732	7 1/2	732Y	Pin 4 1/2 Reg	25.5	250 x 250 x 390
190,5 (7 1/2) AIRS832	7 1/2	832Y	Pin 4 1/2 Reg	25.5	250 x 250 x 390
215,9 (8 1/2) AIRS322	8 1/2	322	Pin 4 1/2 Reg	31.8	250 x 250 x 390
215,9 (8 1/2) AIRS622	8 1/2	622X	Pin 4 1/2 Reg	32.4	250 x 250 x 390
215,9 (8 1/2) AIRS632	8 1/2	632Y	Pin 4 1/2 Reg	33.6	250 x 250 x 390
215,9 (8 1/2) AIRS642	8 1/2	642Y	Pin 4 1/2 Reg	34.3	250 x 250 x 390
215,9 (8 1/2) AIRS742	8 1/2	742Y	Pin 4 1/2 Reg	34.3	250 x 250 x 390
215,9 (8 1/2) AIRS832	8 1/2	832Y	Pin 4 1/2 Reg	34	250 x 250 x 390
228,6 (9) AIRS312	9	312	Pin 4 1/2 FH	33.9	280 x 280 x 390
228,6 (9) AIRS322	9	322	Pin 4 1/2 FH	33.9	280 x 280 x 390
228,6 (9) AIRS642	9	642Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
228,6 (9) AIRS742	9	742Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
228,6 (9) AIRS832	9	832Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
233,0 (9 3/16) AIRS312	9 3/16	312	Pin 4 1/2 FH	33.9	280 x 280 x 390
233,0 (9 3/16) AIRS322	9 3/16	322	Pin 4 1/2 FH	33.9	280 x 280 x 390
233,0 (9 3/16) AIRS642	9 3/16	642Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
233,0 (9 3/16) AIRS742	9 3/16	742Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
233,0 (9 3/16) AIRS832	9 3/16	832Y	Pin 4 1/2 FH	41.7	280 x 280 x 390
244,5 (9 5/8) AIRS322	9 5/8	322	Pin 4 1/2 FH	40.7	280 x 280 x 390
244,5 (9 5/8) AIRS612	9 5/8	612X	Pin 4 1/2 FH	43.7	280 x 280 x 390
244,5 (9 5/8) AIRS622	9 5/8	622X	Pin 4 1/2 FH	50.3	280 x 280 x 390
244,5 (9 5/8) AIRS632	9 5/8	632Y	Pin 4 1/2 FH	43.7	280 x 280 x 390
244,5 (9 5/8) AIRS642	9 5/8	642Y	Pin 4 1/2 FH	43.7	280 x 280 x 390
244,5 (9 5/8) AIRS742	9 5/8	742Y	Pin 4 1/2 FH	42.7	280 x 280 x 390
244,5 (9 5/8) AIRS822	9 5/8	822Y	Pin 4 1/2 FH	43.7	280 x 280 x 390
244,5 (9 5/8) AIRS832	9 5/8	832Y	Pin 4 1/2 FH	43.7	280 x 280 x 390
250,8 (9 7/8) AIRS612	9 7/8	612X	Pin 4 1/2 FH	50.1	280 x 280 x 390
250,8 (9 7/8) AIRS622	9 7/8	622X	Pin 4 1/2 FH	50.3	280 x 280 x 390
250,8 (9 7/8) AIRS632	9 7/8	632Y	Pin 4 1/2 FH	50.7	280 x 280 x 390
250,8 (9 7/8) AIRS632	9 7/8	632Y	Pin 6 5/8 Reg	50.3	280 x 280 x 390
250,8 (9 7/8) AIRS642	9 7/8	642Y	Pin 4 1/2 FH	49.7	280 x 280 x 390
250,8 (9 7/8) AIRS722	9 7/8	722Y	Pin 4 1/2 FH	50.7	280 x 280 x 390
250,8 (9 7/8) AIRS712	9 7/8	712Y	Pin 4 1/2 FH	49.7	280 x 280 x 390
269,9 (10 5/8) AIRS622	10 5/8	622X	Pin 6 5/8 Reg	57.3	280 x 280 x 390
269,9 (10 5/8) AIRS642	10 5/8	642Y	Pin 6 5/8 Reg	57.3	280 x 280 x 390
269,9 (10 5/8) AIRS742	10 5/8	742Y	Pin 6 5/8 Reg	57.3	280 x 280 x 390
269,9 (10 5/8) AIRS832	10 5/8	832Y	Pin 6 5/8 Reg	58.9	280 x 280 x 390

# AIRVECTOR (AIRV)

AIRVECTOR



Improved design

Side jet

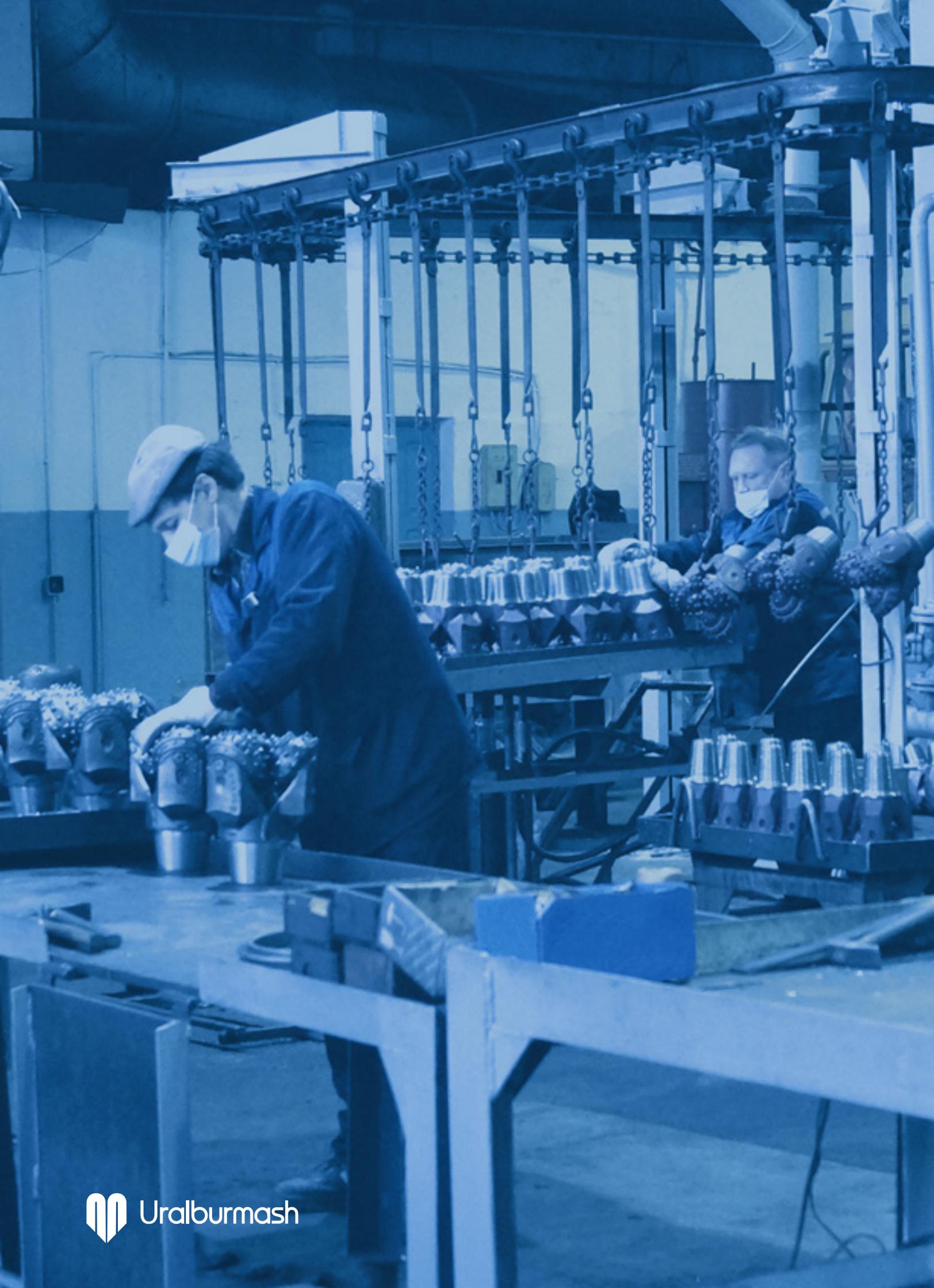
Standard open roller bearing with air flush

Leaf-type back flow valve





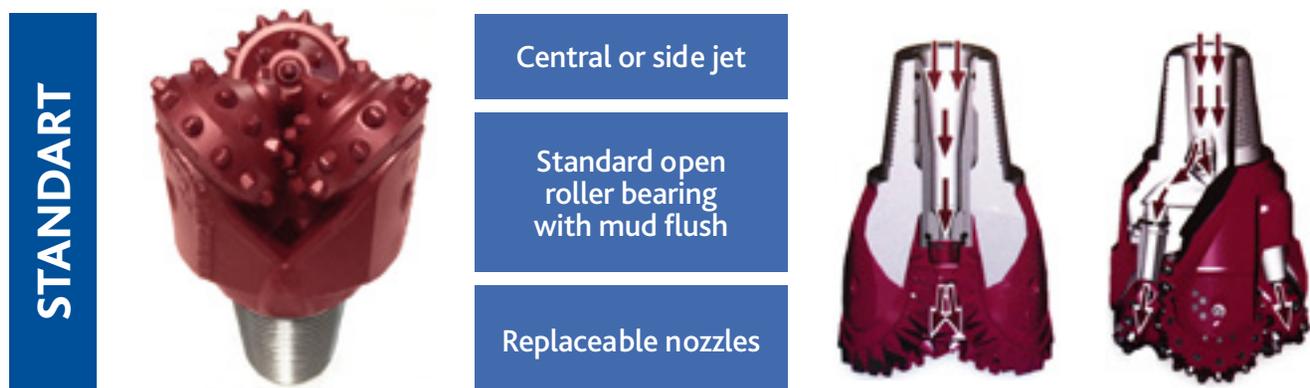

Bit identification	Bit size, inch	IADC code	Connecting thread (API)	Gross weight, kg	Shipping dimensions, mm
1	2	3	4	5	6
171,4 (6 3/4) AIRV122	6 3/4	122	Pin 3 1/2 Reg	14.5	190 x 190 x 330
171,4 (6 3/4) AIRV222	6 3/4	222	Pin 3 1/2 Reg	14.5	190 x 190 x 330
171,4 (6 3/4) AIRV542	6 3/4	542X	Pin 3 1/2 Reg	15.1	190 x 190 x 330
171,4 (6 3/4) AIRV632	6 3/4	632X	Pin 3 1/2 Reg	15.5	190 x 190 x 330
171,4 (6 3/4) AIRV642	6 3/4	642X	Pin 3 1/2 Reg	15.7	190 x 190 x 330
171,4 (6 3/4) AIRV732	6 3/4	732Y	Pin 3 1/2 Reg	15.5	190 x 190 x 330
171,4 (6 3/4) AIRV832	6 3/4	832Y	Pin 3 1/2 Reg	15.7	190 x 190 x 330
200,0 (7 7/8) AIRV622	7 7/8	622X	Pin 4 1/2 Reg	36	250 x 250 x 390
200,0 (7 7/8) AIRV622	7 7/8	622Y	Pin 4 1/2 Reg	36.1	250 x 250 x 390
200,0 (7 7/8) AIRV632	7 7/8	632Y	Pin 4 1/2 Reg	36.1	250 x 250 x 390
200,0 (7 7/8) AIRV832	7 7/8	832Y	Pin 4 1/2 Reg	36.1	250 x 250 x 390
215,9 (8 1/2) AIRV122	8 1/2	122	Pin 4 1/2 Reg	33.3	250 x 250 x 390
215,9 (8 1/2) AIRV542	8 1/2	542Y	Pin 4 1/2 Reg	37.2	250 x 250 x 390
215,9 (8 1/2) AIRV612	8 1/2	612X	Pin 4 1/2 Reg	38	250 x 250 x 390
215,9 (8 1/2) AIRV632	8 1/2	632Y	Pin 4 1/2 Reg	38	250 x 250 x 390
215,9 (8 1/2) AIRV642	8 1/2	642Y	Pin 4 1/2 Reg	38	250 x 250 x 390
228,6 (9) AIRV612	9	612Y	Pin 4 1/2 FH	41.2	280 x 280 x 390
228,6 (9) AIRV642	9	642Y	Pin 4 1/2 FH	41.2	280 x 280 x 390
233,0 (9 3/16) AIRV612	9 3/16	612Y	Pin 4 1/2 FH	41.2	280 x 280 x 390
233,0 (9 3/16) AIRV642	9 3/16	642Y	Pin 4 1/2 FH	41.2	280 x 280 x 390
244,5 (9 5/8) AIRV632	9 5/8	632Y	Pin 4 1/2 FH	47.7	280 x 280 x 390
244,5 (9 5/8) AIRV642	9 5/8	642Y	Pin 4 1/2 FH	51.7	280 x 280 x 390
244,5 (9 5/8) AIRV732	9 5/8	732Y	Pin 4 1/2 FH	46.7	280 x 280 x 390
244,5 (9 5/8) AIRV742	9 5/8	742Y	Pin 4 1/2 FH	46.7	280 x 280 x 390
244,5 (9 5/8) AIRV832	9 5/8	832Y	Pin 4 1/2 FH	47.7	280 x 280 x 390
250,8 (9 7/8) AIRV632	9 7/8	632Y	Pin 4 1/2 FH	51.7	280 x 280 x 390
250,8 (9 7/8) AIRV742	9 7/8	742Y	Pin 4 1/2 FH	52.3	280 x 280 x 390



## ROLLER CONE BITS WITH MUD FLASH

**Standart (STD)** roller cone bits are designed for a wide range of drilling applications featuring bottom hole cleaning with mud flush, as well as for additional well operations. They are successfully used for water well drilling, well drilling in construction, exploration drilling and gold mining.

### STANDART (STD)



Bit identification	Bit size, inch	IADC code	Connecting thread (API)	Gross weight, kg	Shipping dimensions, mm
1	2	3	4	5	6
II 59,0 (2 21/64) STD613***	2 21/64	613Y	-	3.5	210 x 210 x 200*
75,0 (2 61/64) STD131	2 61/64	131	N-Rod	2.6	210 x 210 x 200*
75,0 (2 15/16) STD211	2 15/16	211	N-Rod	2.6	210 x 210 x 200*
75,0 (2 15/16) STD321	2 15/16	321	N-Rod	2.6	210 x 210 x 200*
75,0 (2 61/64) STD321	2 61/64	321	N-Rod	2.6	210 x 210 x 200*
76,0 (2 63/64) STD321	2 63/64	321	-	2.7	210 x 210 x 200*
76,0 (2 63/64) STD741	2 63/64	741Y	-	2.6	210 x 210 x 200*
82,6 (3 1/4) STD221	3 1/4	221	-	5.7	210 x 210 x 200*
92,1 (3 5/8) STD511	3 5/8	511X	-	4.1	210 x 210 x 200*
93,0 (3 21/32) STD321	3 21/32	321	-	3.6	210 x 210 x 200*
93,0 (3 21/32) STD621	3 21/32	621Y	-	4.1	210 x 210 x 200*
93,0 (3 21/32) STD741	3 21/32	741Y	-	4.0	210 x 210 x 200*
95,0 (3 47/64) STD511	3 47/64	511X	-	4.3	210 x 210 x 200*
98,4 (3 7/8) STD211	3 7/8	211	Pin 2 3/8 Reg	4.7	210 x 210 x 200*
98,4 (3 7/8) STD221	3 7/8	221	Pin 2 3/8 Reg	4.7	210 x 210 x 200*
98,4 (3 7/8) STD231	3 7/8	231	Pin 2 3/8 Reg	4.7	210 x 210 x 200*
98,4 (3 7/8) STD321	3 7/8	321	Pin 2 3/8 Reg	4.7	210 x 210 x 200*
98,4 (3 7/8) STD521	3 7/8	521X	Pin 2 3/8 Reg	5.1	210 x 210 x 200*
98,4 (3 7/8) STD621	3 7/8	621X	Pin 2 3/8 Reg	5.3	210 x 210 x 200*
98,4 (3 7/8) STD831	3 7/8	831Y	Pin 2 3/8 Reg	5	210 x 210 x 200*

1	2	3	4	5	6
101,6 (4) STD321	4	321	Pin 2 3/8 Reg	4.8	210 x 210 x 200*
101,6 (4) STD521	4	521X	Pin 2 3/8 Reg	5.2	210 x 210 x 200*
104,8 (4 1/8) STD221	4 1/8	221	Pin 2 3/8 Reg	5.6	210 x 210 x 200*
104,8 (4 1/8) STD521	4 1/8	521X	Pin 2 3/8 Reg	5.8	210 x 210 x 200*
II 112,0 (4 13/32) STD121***	4 13/32	121	-	6.3	170 x 170 x 260
II 112,0 (4 13/32) STD221***	4 13/32	221	-	6.0	170 x 170 x 260
112,0 (4 13/32) STD321	4 13/32	321	-	5.9	170 x 170 x 260
112,0 (4 13/32) STD621	4 13/32	623X	-	6.2	170 x 170 x 260
112,0 (4 13/32) STD741	4 13/32	741Y	-	6.2	170 x 170 x 260
114,3 (4 1/2) STD111	4 1/2	111	Pin 2 3/8 Reg	6.9	170 x 170 x 260
114,3 (4 1/2) STD221	4 1/2	221	Pin 2 3/8 Reg	5.9	170 x 170 x 260
114,3 (4 1/2) STD231	4 1/2	231	Pin 2 3/8 Reg	5.9	170 x 170 x 260
114,3 (4 1/2) STD321	4 1/2	321	Pin 2 3/8 Reg	6.9	170 x 170 x 260
114,3 (4 1/2) STD521	4 1/2	521X	Pin 2 3/8 Reg	6.0	170 x 170 x 260
118,0 (4 41/64) STD221	4 41/64	221	Pin 2 7/8 Reg	6.9	170 x 170 x 260
120,6 (4 3/4) STD121	4 3/4	121	Pin 2 7/8 Reg	7.6	170 x 170 x 260
120,6 (4 3/4) STD211	4 3/4	211	Pin 2 7/8 Reg	7.6	170 x 170 x 260
120,6 (4 3/4) STD221	4 3/4	221	Pin 2 7/8 Reg	7.6	170 x 170 x 260
120,6 (4 3/4) STD231	4 3/4	231	Pin 2 7/8 Reg	7.4	170 x 170 x 260
120,6 (4 3/4) STD241	4 3/4	241	Pin 2 7/8 Reg	7.4	170 x 170 x 260
120,6 (4 3/4) STD321	4 3/4	321	Pin 2 7/8 Reg	8.4	170 x 170 x 260
120,6 (4 3/4) STD331	4 3/4	331	Pin 2 7/8 Reg	7.5	170 x 170 x 260
120,6 (4 3/4) STD523	4 3/4	523X	Pin 2 7/8 Reg	8.8	170 x 170 x 260
120,6 (4 3/4) STD543	4 3/4	543X	Pin 2 7/8 Reg	8.8	170 x 170 x 260
120,6 (4 3/4) STD621	4 3/4	621Y	Pin 2 7/8 Reg	7.7	170 x 170 x 260
120,6 (4 3/4) STD833	4 3/4	833Y	Pin 2 7/8 Reg	7.7	170 x 170 x 260
122,0 (4 51/64) STD621	4 51/64	621Y	Pin 2 7/8 Reg	8.9	170 x 170 x 260
123,8 (4 7/8) STD221	4 7/8	221	Pin 2 7/8 Reg	7.9	170 x 170 x 260
123,8 (4 7/8) STD231	4 7/8	231	Pin 2 7/8 Reg	7.9	170 x 170 x 260
123,8 (4 7/8) STD523	4 7/8	523X	Pin 2 7/8 Reg	8.9	170 x 170 x 260
123,8 (4 7/8) STD543	4 7/8	543X	Pin 2 7/8 Reg	8.9	170 x 170 x 260
125,0 (4 59/64) STD231	4 59/64	231	Pin 2 7/8 Reg	8.0	170 x 170 x 260
125,0 (4 59/64) STD241	4 59/64	241	Pin 2 7/8 Reg	8.1	170 x 170 x 260
125,0 (4 59/64) STD623	4 59/64	623X	Pin 2 7/8 Reg	7.9	170 x 170 x 260
127,0 (5) STD121	5	121	Pin 2 7/8 Reg	7.5	170 x 170 x 260
127,0 (5) STD231	5	231	Pin 2 7/8 Reg	7.5	170 x 170 x 260
127,0 (5) STD523	5	523X	Pin 2 7/8 Reg	10.7	170 x 170 x 260
130,2 (5 1/8) STD121	5 1/8	121	Pin 2 7/8 Reg	9.4	170 x 170 x 260
130,2 (5 1/8) STD141	5 1/8	141	Pin 2 7/8 Reg	8.6	170 x 170 x 260
130,2 (5 1/8) STD523	5 1/8	523X	Pin 2 7/8 Reg	11.9	170 x 170 x 260
II 132,0 (5 13/64) STD121***	5 13/64	121	-	7.2	170 x 170 x 260
132,0 (5 13/64) STD221	5 13/64	221	-	7.6	170 x 170 x 260
132,0 (5 13/64) STD321	5 13/64	321	-	7.6	170 x 170 x 260

1	2	3	4	5	6
132,0 (5 13/64) STD743	5 13/64	743Y	-	8.6	170 x 170 x 260
133,4 (5 1/4) STD121	5 1/4	121	Pin 2 7/8 Reg	9.7	190 x 190 x 330
133,4 (5 1/4) STD141	5 1/4	141	Pin 2 7/8 Reg	8.9	190 x 190 x 330
133,4 (5 1/4) STD543	5 1/4	543X	Pin 2 7/8 Reg	11.2	190 x 190 x 330
139,7 (5 1/2) STD221	5 1/2	221	Pin 3 1/2 Reg	12.0	190 x 190 x 330
139,7 (5 1/2) STD221K	5 1/2	221	Pin 2 7/8 Reg	11.6	190 x 190 x 330
139,7 (5 1/2) STD231	5 1/2	231	Pin 3 1/2 Reg	12.0	190 x 190 x 330
139,7 (5 1/2) STD241	5 1/2	241	Pin 3 1/2 Reg	12.0	190 x 190 x 330
139,7 (5 1/2) STD321	5 1/2	321	Pin 3 1/2 Reg	13.1	190 x 190 x 330
139,7 (5 1/2) STD523	5 1/2	523X	Pin 3 1/2 Reg	12.3	190 x 190 x 330
139,7 (5 1/2) STD523K	5 1/2	523X	Pin 2 7/8 Reg	11.9	190 x 190 x 330
139,7 (5 1/2) STD547**	5 1/2	547X	Pin 3 1/2 Reg	19.0	190 x 190 x 330
142,0 (5 19/32) STD141	5 19/32	141	Pin 3 1/2 Reg	12.4	190 x 190 x 330
142,9 (5 5/8) STD221K	5 5/8	221	Pin 2 7/8 Reg	11.5	190 x 190 x 330
142,9 (5 5/8) STD523K	5 5/8	523 x	Pin 2 7/8 Reg	12.1	190 x 190 x 330
146,0 (5 3/4) STD221	5 3/4	221	Pin 3 1/2 Reg	11.0	190 x 190 x 330
146,0 (5 3/4) STD321	5 3/4	321	Pin 3 1/2 Reg	11.0	190 x 190 x 330
146,0 (5 3/4) STD543	5 3/4	543X	Pin 3 1/2 Reg	14.0	190 x 190 x 330
146,0 (5 3/4) STD623	5 3/4	623X	Pin 3 1/2 Reg	11.8	190 x 190 x 330
146,0 (5 3/4) STD833	5 3/4	833Y	Pin 3 1/2 Reg	11.8	190 x 190 x 330
149,2 (5 7/8) STD111	5 7/8	111	Pin 3 1/2 Reg	14.5	190 x 190 x 330
149,2 (5 7/8) STD121	5 7/8	121	Pin 3 1/2 Reg	14.5	190 x 190 x 330
149,2 (5 7/8) STD141	5 7/8	141	Pin 3 1/2 Reg	13.5	190 x 190 x 330
149,2 (5 7/8) STD221	5 7/8	221	Pin 3 1/2 Reg	12.5	190 x 190 x 330
149,2 (5 7/8) STD231	5 7/8	231	Pin 3 1/2 Reg	12.5	190 x 190 x 330
149,2 (5 7/8) STD321	5 7/8	321	Pin 3 1/2 Reg	12.5	190 x 190 x 330
151,0 (5 15/16) STD221	5 15/16	221	Pin 3 1/2 Reg	12.5	190 x 190 x 330
151,0 (5 15/16) STD321	5 15/16	321	Pin 3 1/2 Reg	12.5	190 x 190 x 330
151,0 (5 15/16) STD743	5 15/16	743Y	Pin 3 1/2 Reg	12.5	190 x 190 x 330
152,4 (6) STD121	6	121	Pin 3 1/2 Reg	14.0	190 x 190 x 330
152,4 (6) STD141	6	141	Pin 3 1/2 Reg	14.0	190 x 190 x 330
152,4 (6) STD221	6	221	Pin 3 1/2 Reg	14.0	190 x 190 x 330
152,4 (6) STD231	6	231	Pin 3 1/2 Reg	14.0	190 x 190 x 330
152,4 (6) STD321	6	321	Pin 3 1/2 Reg	13.9	190 x 190 x 330
152,4 (6) STD523	6	523X	Pin 3 1/2 Reg	13.7	190 x 190 x 330
155,6 (6 1/8) STD321	6 1/8	321	Pin 3 1/2 Reg	14.2	190 x 190 x 330
155,6 (6 1/8) STD523	6 1/8	523X	Pin 3 1/2 Reg	14	190 x 190 x 330
158,7 (6 1/4) STD121	6 1/4	121	Pin 3 1/2 Reg	15.0	190 x 190 x 330
158,7 (6 1/4) STD221	6 1/4	221	Pin 3 1/2 Reg	14.5	190 x 190 x 330
161,0 (6 11/32) STD221	6 11/32	221	Pin 3 1/2 Reg	13.5	190 x 190 x 330
161,0 (6 11/32) STD321	6 11/32	321	Pin 3 1/2 Reg	14.5	190 x 190 x 330
161,0 (6 11/32) STD523	6 11/32	523X	Pin 3 1/2 Reg	14.7	190 x 190 x 330
161,0 (6 11/32) STD743	6 11/32	743Y	Pin 3 1/2 Reg	14.9	190 x 190 x 330
165,1 (6 1/2) STD111	6 1/2	111	Pin 3 1/2 Reg	15.5	190 x 190 x 330

1	2	3	4	5	6
165,1 (6 1/2) STD121	6 1/2	121	Pin 3 1/2 Reg	15.5	190 x 190 x 330
165,1 (6 1/2) STD211	6 1/2	211	Pin 3 1/2 Reg	14.6	190 x 190 x 330
165,1 (6 1/2) STD221	6 1/2	221	Pin 3 1/2 Reg	14.6	190 x 190 x 330
165,1 (6 1/2) STD523	6 1/2	523X	Pin 3 1/2 Reg	16.5	190 x 190 x 330
171,4 (6 3/4) STD121	6 3/4	121	Pin 3 1/2 Reg	18.5	190 x 190 x 330
171,4 (6 3/4) STD523	6 3/4	523X	Pin 3 1/2 Reg	18.5	190 x 190 x 330
171,4 (6 3/4) STD523	6 3/4	523X	Pin 3 1/2 Reg	18.5	190 x 190 x 330
190,5 (7 1/2) STD121	7 1/2	121	Pin 4 1/2 Reg	27.4	250 x 250 x 390
190,5 (7 1/2) STD221	7 1/2	221	Pin 4 1/2 Reg	27.3	250 x 250 x 390
190,5 (7 1/2) STD221	7 1/2	221	Pin 4 1/2 Reg	27.3	250 x 250 x 390
190,5 (7 1/2) STD321	7 1/2	321	Pin 4 1/2 Reg	28.3	250 x 250 x 390
190,5 (7 1/2) STD543	7 1/2	543X	Pin 4 1/2 Reg	37.3	250 x 250 x 390
190,5 (7 1/2) STD633	7 1/2	633Y	Pin 4 1/2 Reg	28.3	250 x 250 x 390
190,5 (7 1/2) STD833	7 1/2	833Y	Pin 4 1/2 Reg	25.5	250 x 250 x 390
215,9 (8 1/2) STD121	8 1/2	121	Pin 4 1/2 Reg	33.3	250 x 250 x 390
215,9 (8 1/2) STD221	8 1/2	221	Pin 4 1/2 Reg	33.3	250 x 250 x 390
215,9 (8 1/2) STD523	8 1/2	523X	Pin 4 1/2 Reg	32.3	250 x 250 x 390
244,5 (9 5/8) STD221	9 5/8	221	Pin 4 1/2 FH	40.9	280 x 280 x 390
269,9 (10 5/8) STD221	10 5/8	221	Pin 6 5/8 Reg	57.6	Palleted
295,3 (11 5/8) STD221	11 5/8	221	Pin 6 5/8 Reg	77.6	Palleted
295,3 (11 5/8) STD633	11 5/8	633Y	Pin 6 5/8 Reg	87.6	Palleted
311,1 (12 1/4) STD211	12 1/4	211	Pin 6 5/8 Reg	97.3	Palleted
349,2 (13 3/4) STD211	13 3/4	211	Pin 6 5/8 Reg	104.0	Palleted
349,2 (13 3/4) STD311	13 3/4	311	Pin 6 5/8 Reg	104.0	Palleted
393,7 (15 1/2) STD221	15 1/2	221	Box 6 5/8 FH	253.0	Palleted
490,0 (19 19/64) STD221	19 19/64	221	Box 6 5/8 FH	310.0	Palleted

Note:

\* 4 drill bits are packed in a box

\*\* One-cone bit

\*\*\* Double-cone bit

## BIT OPERATION GUIDE

A full version of UBM **Bit Operation Guide** can be downloaded from the corporate site <https://ubm.ru>, or ask for its delivery by e-mail or through the official dealers or Uralburmash representatives.



## CONTACT INFORMATION

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### General Director

**Alexander V Slesarev**

Tel: +7 (34398) 242-21 email: a.slesarev@vbm.ru

### Technical Director

**Yuri V Slukin**

Tel: +7 (34398) 240-34 email: y.slukin@vbm.ru

### Director for Auxiliary Production

**Sergey A Akimenko**

Tel: +7 (34398) 242-46 email: akimenko.s@ubm.ru

### Chief Accountant

**Irina A Bakina**

Tel: +7 (34398) 252-65 email: glavbuh@ubm.ru

### Head of Sales Department

**Kristina N Akhmanaeva**

Tel: +7 (34398) 242-10 email: k.akhmanaeva@vbm.ru

### Head of Procurement Department

**Denis V Mogilenskih**

Tel: +7 (34398) 257-20 email: mogilenskih.d@ubm.ru

### Head of HR Department

**Oksana G Shipulina**

Tel: +7 (34398) 242-45 email: o.shipulina@ubm.ru







URALBURMASH JSC

623070, Sverdlovsk region, Nizhneserginsky district,  
Verkhnie Sergi, 10, Volodarskogo Str.

Tel: +7 (34398) 242-21, fax: +7 (34398) 240-45

mail@ubm.ru, <https://ubm.ru>

