

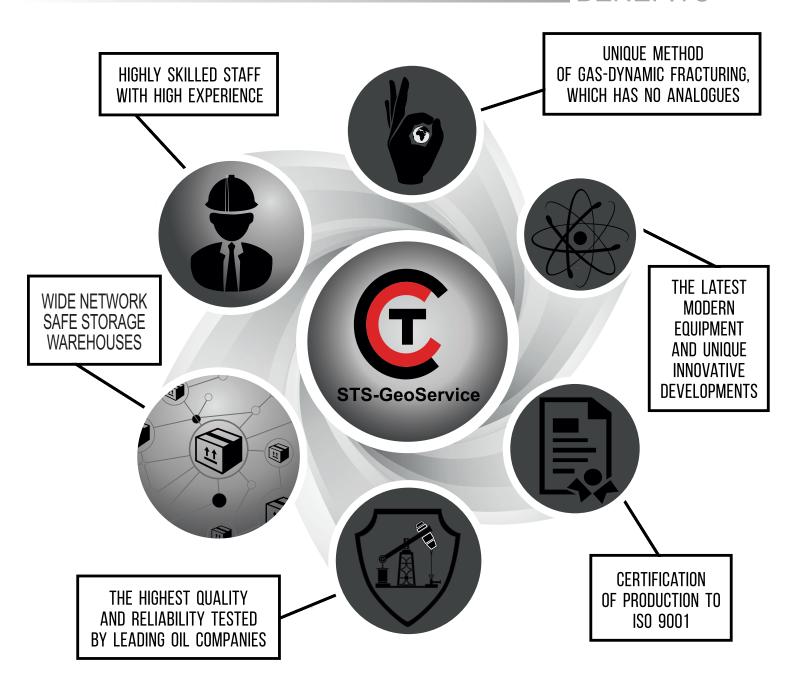






CATALOG OF PRODUCTION

BENEFITS



ABOUT COMPANY

Scientific production company LLC "STS-GeoService" is one of the top-ranked national leaders in implementing innovative effective methods for oil and gas production (flow rate increasing).





The company has successfully established itself in the market for the production of shooting and blasting equipment. The production has implemented a quality management system that meets the requirements of ISO 9001-2011.

The use of modern technologies ensures reliability, safety and high quality of manufactured products. The extensive geography of warehouses of responsible storage allows to make delivery promptly.

All products manufactured by our company have unique features that give not only technological advantages, but also allows to provide the best price/quality ratio.

PERFORATING GUN «VECTOR»

A reliable design with a minimum number of parts ensures high quality of opening of productive layers.

Case shaped perforators with an outer diameter from 64 to 114 mm for single use. Single-use perforators can be delivered to the perforation interval both on a geophysical cable and on tubing with an internal diameter of at least 50 mm.

The perforators that descend on the cable can be multi-sectional and driven by a cartridge of the PVPD-N type installed in the lower part of the perforator.

Main parameters and characteristics

•							
Name of the parameter	PKN64	PKN73	PKN89	PKN102	PKN114		
Tipes sizes, mm	64	73	89	102	114		
Minimum passing diameter in the column, мм	84	94 115		118	130		
Operating pressure range, MPa	0,1-80,0	0,1-80,0	0,1-100,0	0,1-100,0	0,1-100,		
Permissible application temperature ^o C (with a holding time of 2 hours)	165	165	165	165	165		
Shot density, shot per meter	20	20	20	20	20		
Phasing, degrees	60	60	60	60	60		



Main parameters and characteristics charges «VECTOR»

			SS-05 me (Rostek	Penetration		
Name of the system	Name of the charge	Weight of per charge, g	Actual penetration depth, mm	The average diameter of the inlet hole in the steel plate, mm	depth on a concretetarget, mm	
PKN64	«VECTOR»64BH	15,5	105,9	21,5	254	
	«VECTOR»64DP	14,5	136,5	9,6	705	
PKN73	«VECTOR»73BH	19	126,8	23,0	300	
PKIN/3	«VECTOR»73DP	17	152,3	12,0	711	
PKN89	«VECTOR»89BH	25	118,8	24,1	280	
PKNOS	«VECTOR»89DP	22	182	12,1	968	
	«VECTOR»102BH	30	114,4	23,5	345	
PKN102	«VECTOR»102DP	30	222,7	12,1	1112	
PKN114	«VECTOR»102BH	30	-	23,2	340	
PKINT14	«VECTOR»102DP	30	-	12,1	1182	



- Provides a high-quality cut of tubing with minimal blasting action;
- Reliable construction;
- Cutter design provides easy retrieving from the well after operation;

- The design provides an unobstructed ascent from the well after actuation;
- Initiated by a safe explosive cartridge PGN-150;



Main parameters and characteristics

No. of the control of	Name				
Name of the parameter	TKV44	TKV54	TKV67		
Maximum hydrostatic pressure, MPa	80	80	80		
Permissible application temperature C (with a holding time of 2 hours)	150	150	150		
Outer diameter, mm	44	54	67		
Diameter of the cut tubing	60	73	89		
Explosive weight	23	25	40		

THE EXPLOSIVE PACKERS PVP/PVPC

PVP - for separation of layers PVPC - for cementing works







- For initiate of any packer, universal charge is used. This charge is initiated by the safe explosive cartridge;
- Increased reliability and the stability of the operation;
- Easy drillable packer PVP/PVPC is installed by the explosion chamber.
- Saving time for assembling the explosion chamber.

Main parameters and characteristics

	Value						
Parameters	PVP 102 / PVPC 102	PVP 110 / PVPC 110	PVP 118 / PVPC 118	PVP 135 / PVPC 135	PVP 146 / PVPC 146		
Outer diameter, mm	102	110	118	135	146		
Assembly length, мм	405/655	465/715	465/715	530/780	530/780		
Casing inner diameter, mm: minimum maximum	109 118	117 124	125 133	144 152	154 164		
Pressure rating, MPa	50	50	50	40	30		
Weight, kg	11/13	18/20	21/23	26/29	28/31		

COMPLEX PERFORATOR-GENERATOR «URAGAN

Complex stimulation technology allows are used for jet perforating with simultaneous gas-dynamics treatment of bottomhole zone, in order to stimulate well production.



Main parameters and characteristics CPG «URAGAN»

Parameters	Value
Outer diameter, mm	64-114
Minimal inner diameter of casing, mm	84
Maximum allowable application parameters:	
- temperature, °C	165
- hydrostatic pressuree, MPa	80
Shot density, shot per meter	20
Phasing, degrees	60
Number of propellant chambers	5
Maximum number of propellant charges in one chamber	30
Propellant charge weight, kg	1,6
Minimum allowable hydrostatic pressure, MPa	5

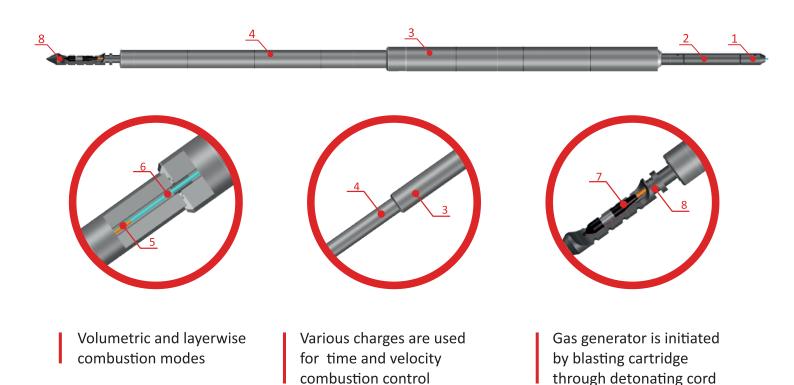
GDK-170 GAS GENERATOR

GDK-170 Gas Generator is the best tool

for gas-dynamic fracturing

- 1. Cone
- 2. Weights
- 3. The main charges
- 4. The igniting charges

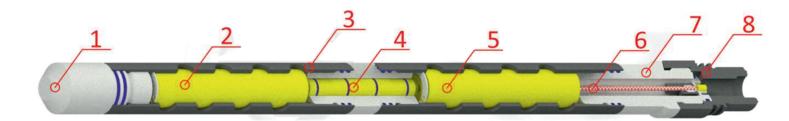
- 5. Detonating cord
- 6. Logging cable
- 7. Blasting cartridge
- 8. Cone

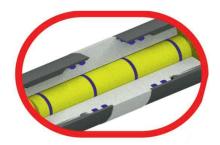


Gas Generator GDK-170, lowering by tubing

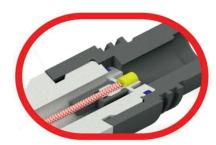
- 1. Cone
- 2. Main charges
- 3. Frame
- 4. The intermediate charge

- 5. The igniting charge
- 6. Detonating cord
- 7. Head
- 8. Adapter





Reliable transfer of combustion between frames



The node of translation of detonation from blast head



The openings make up more than 60% of the surface of the generator frame

GDK-170 TECHNICAL CHARACTERISTICS I

Parameter description	Version norm					
Dimension-type	GDK-170-40	GDK-170-50	GDK-170-56	GDK-170-68	GDK-170-88	GDK-170-104
Outer diameter, mm	40	50	56	68	88	104
Maximum allowable hydrostatic pressure, MPa	80	80	80	80	80	80
Maximum allowable temperature	170	170	170	170	170	170
	ZGD-40	ZGD-50	ZGD-56	ZGD-68	ZGD-88	ZGD-104
Weight of a single charge, kg	0,9	1,6	1,9	2,9	5,1	7,1
Diameter single charge, mm	40	50	56	68	88	104
Charge length, mm	500	500	500	500	500	500
The inner diameter, mm	16	16	16	16	16	16



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140104, RUSSIA, MOSCOW REG., RAMENSKOE,

TEL: +7 (496) 467-39-27

FAX: +7 (496) 467-39-27

WEBSITE: WWW.STS-GEO.COM

EMAIL: RECEPTION@STS-GEO.COM