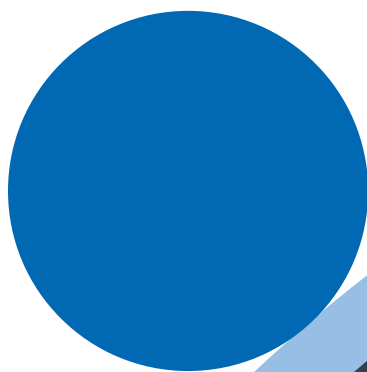




PROTIVGRADNE RAKETE PGR PGR ANTI-HAIL ROCKET



PROTIVGRADNE RAKETE

Grad je prirodna nepogoda koja nanosi velike štete pre svega poljoprivredi, a u slučaju jakog grada sa zrnima leda veličine oraha ili većim, mogu nastati štete većih razmera uključujući i opasnost po živote ljudi i životinja.

Jedna od osnovnih metoda za odbranu od ove prirodne nepogode je unošenje aktivnih supstanci (meterološki reagens) u prehladeni deo oblaka.

Protivgradne rakete su veoma efikasna sredstva kojima se mogu na veoma jednostavan način zasejati velika količina oblačne mase dovoljnim količinama reagensa.

“Poliester grupa” iz Priboja sa proizvodnim programom od pet tipova različitih raketa, ima tradiciju i najveći je proizvođač protivgradnih raketa u Srbiji.

“Poliester grupa” je jedini proizvođač protivgradne rakete sa kaselnim isejavanjem reagensa.

Sa novim tehničkim rešenjem generatora sa kaselnim isejavanjem obezbeđeno je bolje zapreminsko popunjavanje prostora gradonosnih oblaka

Sva detaljna uputstva o upotrebi, skladištenju i prevozu protivgradnih raketa daje proizvođač.

ANTI-HAIL ROCKETS

Hail is a natural disaster inflicting severe damages to agriculture in the first place, and in case of strong hail with ice beads size of a nut or more, can induce larger scale of damage, including danger for lives of people and animals.

One of the basic methods of defense from this natural disaster is entering active substances (meteorological reagent) into supercooled part of the cloud.

Anti-hail rockets are very efficient means by which, in a simple manner, a large amount of cloud mass can be seeded with large enough quantity of reagent.

“Poliester grupa” from Priboj with the production program of five different rockets types, ranks amongst very top of anti-hail rocket manufacturers in Serbia.

“Poliester grupa” is the only manufacturer of anti-hail rockets with reagent cartridge seeding.

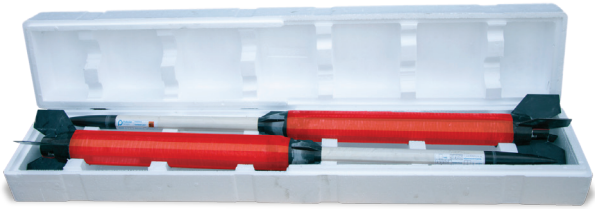
With the new technical solution of generator with cartridge seeding, better volume filling of hail-cloud space is ensured.

All detailed instruction on usage, storage and transport of anti-hail rockets is provided by manufacturer

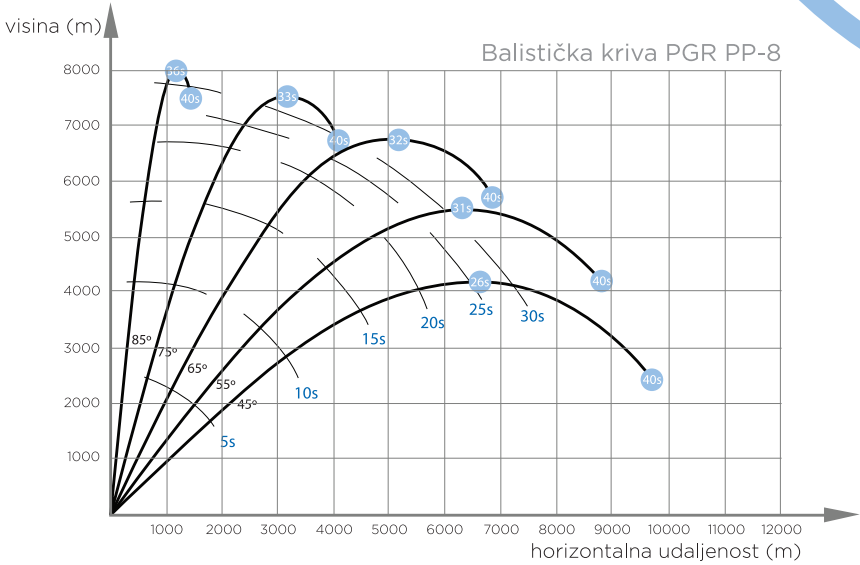
Tehničke karakteristike / Tehnical characteristics

Tip PGR-a	PGR Type	PP-8	PP-6T	PP-6KS	PP-6TS	PP-6TK
Dužina PGR-a (mm)	PGR Lenght (mm)	1170±10	950±10	970±10	1005±10	1045±1
Prečnik PGR-a (mm)	PGR Diameter (mm)	72 -0,8				
Masa PGR-a (kg)	PGR Mass (kg)	5±0,2	5,5±0,2	5,6±0,2	5,9±0,2	5,9±0,2
Maksimalni domet (m)	Maximum range (m)	8000	5500		6000	
Masa PG reagensa (g)	PG reagent mass (g)	400±10			480-10	
Aktivnost PG reagensa na -10 °C	PG reagent's activity at -10 °C	1 x 10 ¹³ aktivnih jezgara / g				
		1 x 10 ¹³ of active cores / g				
Početak isejavanja PG reagensa (s)	PG reagent's seeding start (s)	9±1	10			
Vreme rada generatora (s)	Generator operating time (s)	31±4	27±2	26÷31	27±2	26÷31
Vreme samolikvidacije motora (s)	Engine Self-destruction time (s)	7±1	37+3	33+3	37+3	33+3
Aktiviranje rakete	Rocket activation	Električnim putem				
		Electric				
Omski otpor PGR-a	PGR ohmic resistance	(0,9÷2,5)Ω				
Struja za aktiviranje	Activation current	4,5 A				
Napon za aktiviranje	Activation voltage	9 V				
Pakovanje a x b x h (mm)	Packing a x b x h (mm)	1260x230x190				
Temperaturni opseg upotrebe PGR-a	PGR usage temperature range	(-5 ÷ +50) °C				
Temperaturni opseg skladištena PGR-a	PGR storage temperature range	(-15 ÷ +50) °C				
Garantni rok upotrebe (god)	Warranty (years)	5				
Broj PGR-a u pakovanju (kom)	No of PGRs per package (pcs)	2				
Masa pakovanja (kg)	Package mass (kg)	11±0,5	12±0,5		13±0,5	

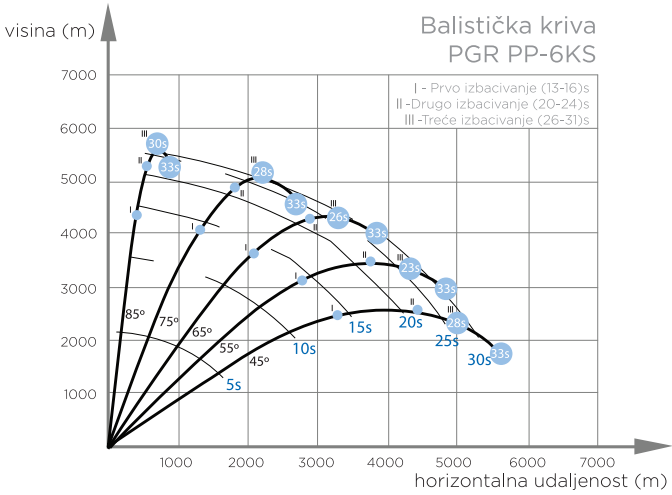
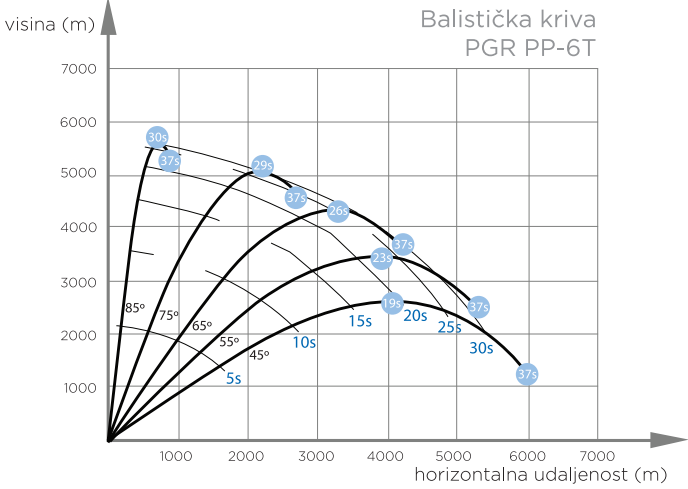
PGR PP-8



PAKOVANJE PGR PP-8
PACKING PGR PP-8



PGR PP-8



PGR PP-6KS

PGR PP-6T

PAKOVANJE PGR PP-6T, PP-6KS
PACKING PGR PP-6T, PP-6KS





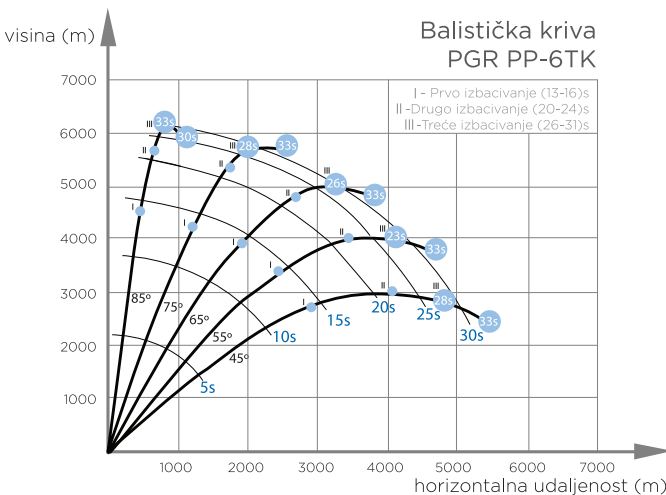
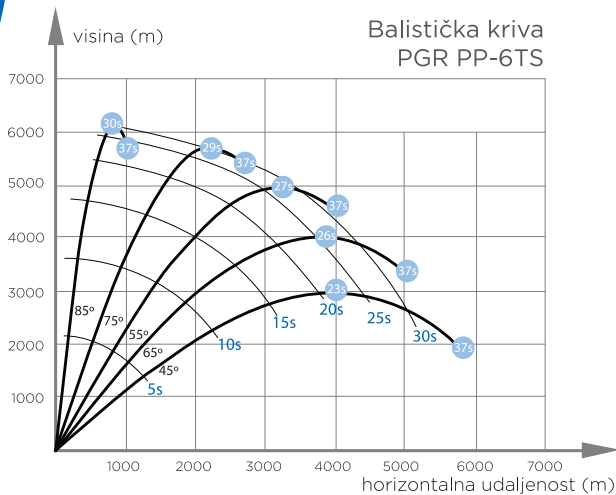
PAKOVANJE PGR PP-6TS, PP-6TK
PACKING PGR PP-6TS, PP-6TK



PGR PP-6TK



PGR PP-6TS



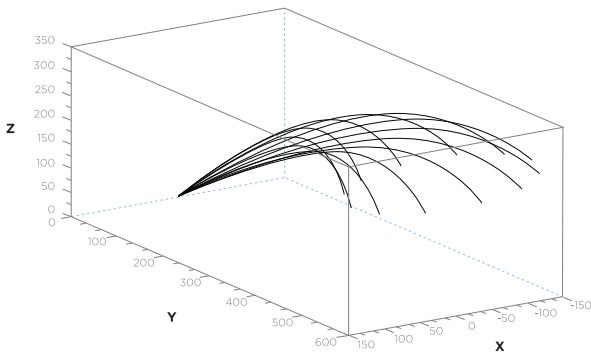
TRAGOVI ISEJAVANJA PGR PP-6KS I PP-6TK

Rakete **PP-8**, **PP-6T** i **PP-6TS** vrše "linijsko" zasejavanje oblaka dok rakete **PP-6KS** i **PP-6TK** pored "linijskog" vrše i zapremsko zasejavanje oblaka uz pomoć otpresaka "kaseta" čije su trajektorije tj. tragovi isejavanja prikazan na slici 1 i 2.

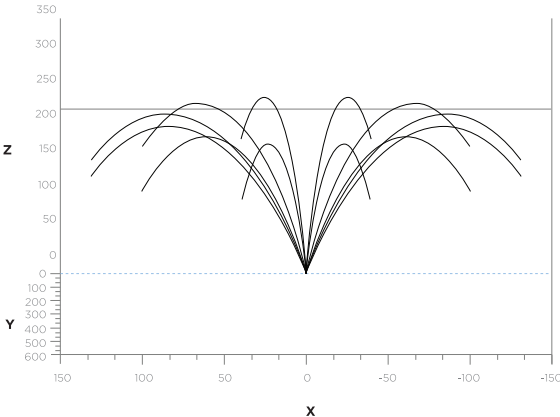
SEEDING TRACES PGR PP-6KS AND PP-6TK

Rockets **PP8** and **PP6TS** perform „linear“ cloud seeding, while rockets **PP6 KS** and **PP6 TK**, besides „linear“ also perform volume seeding of the clouds using clusters whose trajectories (traces) are shown in Fig 1 and 2.

slika 1 / fig 1



slika 2 / fig 2





Certificate No. QS-0140/1 SRPS ISO 9001:2008

Sertifikat br. QS-0140/1 SRPS ISO 9001:2008

KVALITET PROTIVGRADNIH RAKETA JE TESTIRAN OD STRANE SLEDEĆIH INSTITUCIJA:
QUALITY OF ANTI-HALL ROCKETS HAS BEEN TESTED BY THE FOLLOWING INSTITUTIONS:



Ministarstvo unutrašnjih
poslova Republike Srbije
Ministry of Interior
Republic of Serbia



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