



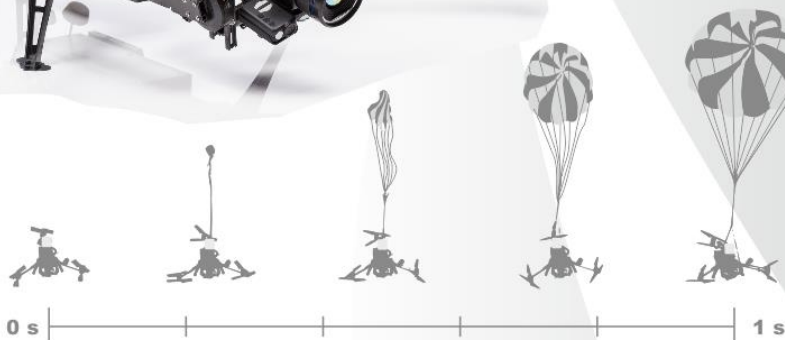
# Galaxy GRS



10/30  
10/350

10/150

10/50



# GALAXY GBS 10 SERIES

**UAV BALLISTIC RESCUE SYSTEM**  
**GENERAL INFORMATION**

After more than three years of intensive development works by the company Galaxy GRS s.r.o. Liberec in cooperation with the Institute of aerospace engineering of the Brno university of technology and the company RCE systems s.r.o. supported by Indet Safety Systems a.s. we introduce you to a highly efficient ballistic rescue system **Galaxy GBS 10** for unmanned aerial vehicles (UAV).



**HAB** Electronic AB

**RCE** SYSTEMS

Indet Safety Systems

T BRNO UNIVERSITY OF TECHNOLOGY

LETECKÝ ÚSTAV  
Institute of Aerospace Engineering

**GALAXY  
GBS 10 SERIES**  
BALLISTIC PARACHUTE RESCUE SYSTEM

**SIMPLE SOLUTION OF RESCUE  
FOR YOUR UAV SYSTEM**

- ✓ LIGHT WEIGHT OF THE SYSTEM
- ✓ FOR UAV WEIGHING UP TO 35 kg
- ✓ HEIGHT OF RESCUE FROM 5 m
- ✓ IMMEDIATE OPENING OF PARACHUTE
- ✓ EASY AND FAST CHARGE
- ✓ REUSABLE
- ✓ VERSIONS FOR DJI A2 and A3 FC

**Our system is unique as it uses a patented pyro-actuator method for fast and reliable parachute deployment! GBS10 is the fastest UAV rescue system on the market!**

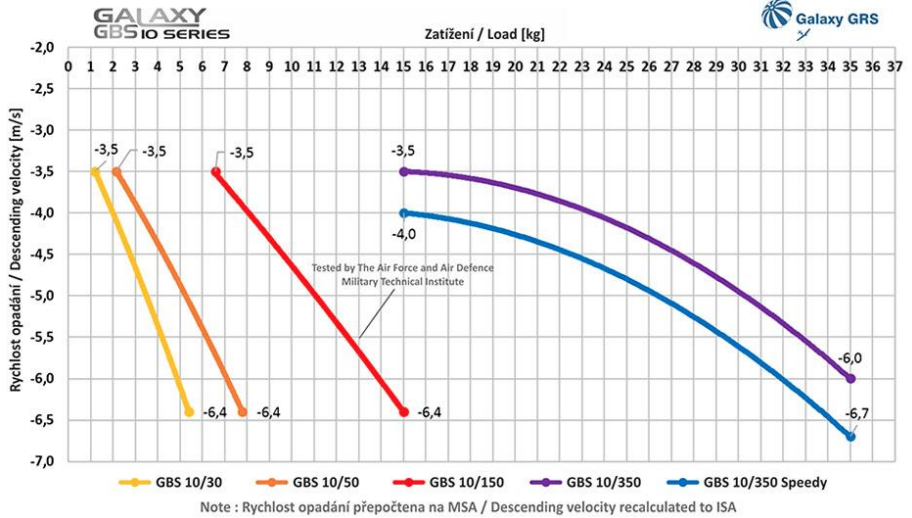
## TECHNICAL PARAMETERS

TYPE	GBS 10/30	GBS 10/50	GBS 10/150	GBS 10/350
Carrying Capacity	up to 3 kg	3-5 kg	5-15 kg	15-35 kg
System Weight ( $\pm 3\%$ )	250 g	275 g	405 g	725 g
Minimum Rescue Height	from 5 m			
Speed	0-80 km/hour			
Way of Activation	Pyro-actuator 150			Pyro-actuator 350
Time to Complete Filling of Canopy	up to 1 s			
Operating Temperature	-20°C to +40°C (Version BASIC)			
Note: The weight shown is with electronics system STANDARD, does not include a carabiner and suspension system				

## TYPES OF ELECTRONIC CONTROLLERS

TYPE OF CONTROLLER	CONTROLLER BASIC	CONTROLLER A3CONNECT	CONTROLLER DJI2GBS	CONTROLLER PRO
<b>DESCRIPTION</b>	Simple and cost effective solution suitable for all types of application.  Unit is controlled by PWM signal from RC receiver.	Simple solution suitable for DJI A3 flight controller (including DJI M600 drone).  Unit is controlled directly from DJI RC transmitter or by PWM signal from backup RC receiver.	DJI2GBS version of ballistic recovery system is directly designed to communicate with DJI A2 flight controller directly using all of its features.	PRO version is equipped with industry standardized robust CANBUS interface. Unit reports all important states (readiness, deployment, errors, etc.).
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>- Self-monitoring and diagnostics.</li> <li>- Information panel.</li> <li>- Disables take-off while ballistic system safety pin is not removed.</li> <li>- Support 2 flight controllers (require ENGINE CUTTER unit)</li> <li>- Support backup battery</li> <li>- Support LANDING GEAR</li> <li>- Support EMERGENCY BUZZER</li> <li>- Protection against to unwanted engine start</li> </ul>	<ul style="list-style-type: none"> <li>- Self-monitoring and diagnostics.</li> <li>- Information panel.</li> <li>- Support DJI A3 flight controller</li> <li>- Disables take-off while ballistic system safety pin is not removed.</li> <li>- Support 2 flight controllers (require ENGINE CUTTER unit)</li> <li>- Support backup battery</li> <li>- Support LANDING GEAR</li> <li>- Support EMERGENCY BUZZER</li> <li>- Protection against to un-wanted engine start</li> </ul>	<ul style="list-style-type: none"> <li>- Self-monitoring and diagnostics.</li> <li>- Information panel.</li> <li>- Control motor disconnecter implemented in A2 flight controller.</li> </ul>	<ul style="list-style-type: none"> <li>- Self-monitoring and diagnostics.</li> <li>- CAN BUS port</li> <li>- Reporting status (readiness, deployment, errors)</li> </ul>
<b>ACTIVATION SIGNALS</b>	<ul style="list-style-type: none"> <li>- PWM signal from Radio control</li> <li>- PWM signal from backup Radio control</li> </ul>	<ul style="list-style-type: none"> <li>- Same as BASIC version</li> <li>- Directly from DJI RC transmitter</li> </ul>	<ul style="list-style-type: none"> <li>- 2x PWM signal from Radio control (manual rescue)</li> <li>- Connection to A2 (automatic rescue)</li> </ul>	<ul style="list-style-type: none"> <li>- CAN BUS 2.0A</li> </ul>
<b>SUITABLE FOR</b>	<ul style="list-style-type: none"> <li>- Any type of flight controller w/wo parachute support</li> <li>- Small series of custom made multi-copters</li> <li>- Most versatile, could be used on any drone</li> </ul>	<ul style="list-style-type: none"> <li>- A3 flight controller</li> <li>- DJI M600</li> </ul>	<ul style="list-style-type: none"> <li>- A2 flight controller</li> </ul>	<ul style="list-style-type: none"> <li>- Manufacturer of multi-copters and flight controllers. Generally all UAVs manufacturers</li> </ul>
<b>AVAILABILITY</b>	AVAILABLE	AVAILABLE	AVAILABLE	ON REQUEST

## DESCENDING VELOCITY








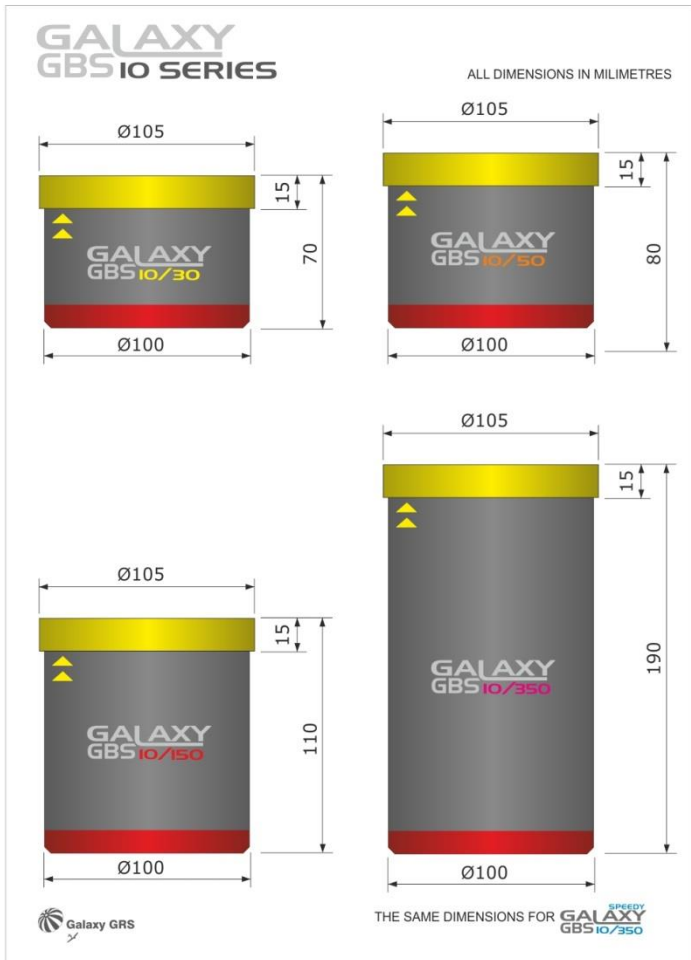
## SYSTEM COMPONENTS

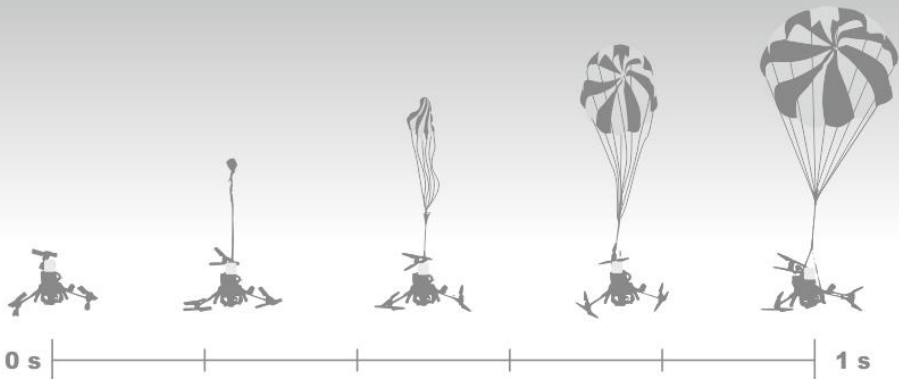


1. Paper packing with parachute
2. Container
3. Piston
4. Pyro-actuator
5. Safety transportation capsule
6. Container cap
7. Control module BASIC
8. Information panel
9. Shorting fuse with flag
10. Connection RC cables
11. Velcro straps for container attachment

## SPARE PARTS & ACCESSORIES

Pyroactuator With transport capsule	Training pyro-actuator	Emergency buzzer	Piston	Container cap
		107 dB 		
		IN COMBINATION WITH ELECTRONICS EXTENDED		





**RESCUE YOUR UNMANNED  
AERIAL VEHICLE WITH  
THE GALAXY GBS 10  
UP TO 1 sec.**



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Czech Republic**

**[www.galaxysky.cz](http://www.galaxysky.cz)**