ATLAS22

Ground Test Release Actuators



Get faster in the new space race.

Development of space mechanisms with space qualified release actuators can be long and expensive process. Some of the units still need to be sent abroad for refurbishment after each release. **ATLAS** ground test actuators make the development **affordable**, **fast** and **representative**.

The unit envelopes a broad range of commercially available space-rated non-explosive release actuators, with the representative mechanical interface and release times.



ATLAS is especially efficient in the development of **reusable multi-actuator mechanisms** with precise synchronization. **Initiation Control Unit (ICU)** allows for control of multiple actuators at the same time. Release scenarios can be easily prepared in the control software by a few mouse clicks. The actuators are rapidly resettable by replacing the cartridge with **redundant initiators** and are reusable.

Space rated model ATLAS ORBITAL is coming in 2027.

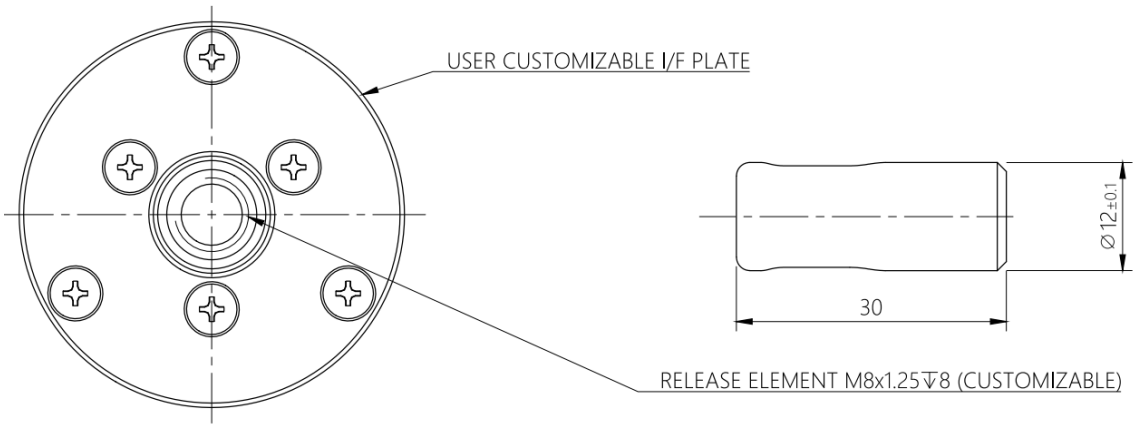
ATLAS22 features	
Mechanical interface	User customizable (to match NEA, Glenair, Eaton, Arquimea...)
Release bolt thread	User customizable up to M8
Max. release preload	**22 kN**
Design limit load	33 kN
Mass	270 g (without harness and connector)
Actuation	PC controlled current pulse (multiple actuators)
Release time	**< 50 ms @ 7A** with ATLAS control electronics (ICU)
Reset	Release Initiation Unit replacement in minutes with supplied tool
Life	50 releases according to ECSS-E-ST-33-01C (>200 tested)
Temperature range	Laboratory conditions

Alumni of:

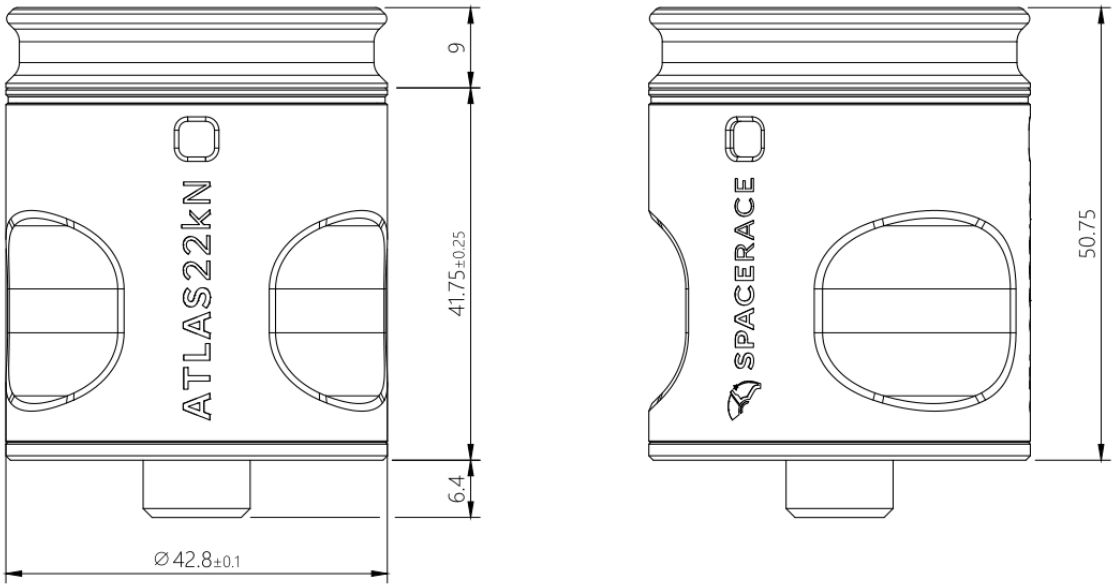
esa BUSINESS INCUBATION CENTRE Czech Republic

ATLAS22 INTERFACES

BOTTOM VIEW:



SIDE VIEW:



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