ANEMONE has been designed to grip any solid element, whether for sampling purposes or more generally for recovery and removal:

- It comprises a rigid body and a flexible head equipped with tentacles designed to grip and trap any type of object or material
- The gripping action is provided by retraction of the anemone head
- The anemone is controlled by a pneumatic air supply

An universal tool:

- Allows the recovery of various objects (i.e. shape, size, density, material), in different environments (e.g. air or water) and on different surfaces (e.g. sand, sludge, rubble)
- Can be used remotely:
  - on a pole equipped with a ball joint allowing the orientation of the tool
  - on a remotely controlled arm
- Resists cuts, tears and irradiation
- 3D printing design: reproducible and scalable
- Dimensions and characteristics adaptable to needs

Advantages

- **PERFORMANCE**
  Possible to perform operations in challenging, irradiating and underwater environments
- **ADAPTABILITY**
  Tool adaptable to the size of objects to grab
- **EASE OF USE**
  User-friendly tool and powered using compressed air
- **VERSATILITY**
  One tool for several objects or materials
- **SAFETY / RADIATION PROTECTION**
  Limited dose exposure through rapid and remote implementation

Key data

**Lightweight and space-saving tool (standard version):**

- Diameter of the anemone: 95 mm
- Length: 375/265 mm (deployed/retracted)
- Weight: 1.7 kg

**Payload:**

- Recovery of elements weighing up to ~10 kg

**Pole characteristics:**

- Length: 2 to 10 m
- Type: with connectable sections
- Equipped with a remotely controlled ball joint allowing the orientation of the tool
A solution developed and tested internally by Orano DS for deployment on several worksites.

Several possible fields of application:

- Remote recovery of objects in areas that are difficult to access and/or highly irradiating (e.g. pool, bottom of vessels, equipment in operation, shielded cells, etc.)

- Taking and recovery of samples for analysis and characterisation (e.g. corium in the Fukushima-Daiichi reactor, fission product residues, pieces of fuel, etc.)

An application for Patent protection has been filed for ANEMONE under number FR 20 02401 with an international extension PCT/FR2021 050414

Contact us to discover the range of possible solutions with ANEMONE

Watch our presentation video for ANEMONE

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