



## RETRIEVAL TOOL KITS FOR EFFICIENT RETRIEVAL OF FOREIGN OBJECTS

PLAN AHEAD - ALWAYS READY FOR AN UNEXPECTED FOSAR MISSION!

As one of the leading manufacturers of inspection systems, we offer consulting, services, inspection cameras, retrieval tools and accessories from a single source.

No matter which inspection camera you work with, the right recovery tool should not be missing from your tool store! Why? - Despite precautions, foreign parts such as production residues, forgotten cleaning utensils or lost tools are reoccurring nuisances in plants. If such a foreign part is not found and retrieved, downtimes and high costs are the result.

In such cases, our recovery tools make the difference and should always be at hand during routine and maintenance work!

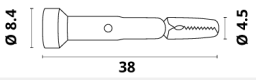

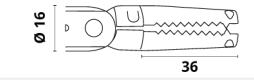
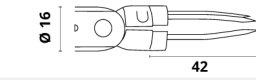
We at viZaar not only manufacture our inspection systems, but also use them ourselves! Thus, our many years of experience are always incorporated into the development and improvement of our products. Our recovery tools have been successfully used many times, especially in numerous emergency FOSAR missions.

Benefit from our many years of expertise and the extensive range of motorized and non-motorized retrieval tools that have resulted from it!



## Motorized Retrieval Tools

Our motorized retrieval tools include the GR 8 and the GR 16, with two different grippers each. The GR 8 is a particularly small, waterproof retrieval gripper. It can be used to grab and recover small and medium sized foreign objects. Depending on your requirements, you can choose between Mouse Tooth and T-Rex gripper heads. The GR 16, on the other hand, is a particularly strong and large gripper which is the perfect tool to recover large foreign objects from your plant. With the GR 16 you have the possibility to choose between Alligator gripper and Three-Finger-Jo.

| GRIPPER                 | GR 8                                                                                                                                  |                                                                                           | GR 16                                                                                                                                       |                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Working diameter        | 8.4 mm                                                                                                                                |                                                                                           | 16 mm                                                                                                                                       |                                                                                                                                                                             |
| Core push rod diameter  | 4.5 mm                                                                                                                                |                                                                                           | Push rod connector: 10 mm                                                                                                                   |                                                                                                                                                                             |
| Standard working length | 10 m, 15 m, 20 m and 30 m                                                                                                             |                                                                                           | 15 m, custom lengths available up to 30 m                                                                                                   |                                                                                                                                                                             |
| Construction            | Single push rod with integrated power and no external connectors or vulnerable snap points                                            |                                                                                           | Connection to push rod system, external power connector                                                                                     |                                                                                                                                                                             |
| DC power                | 9V Lithium battery (PP3)                                                                                                              |                                                                                           | 9V Lithium battery (PP3)                                                                                                                    |                                                                                                                                                                             |
| GRIPPER TOOLS           | MOUSE TOOTH                                                                                                                           | T-REX                                                                                     | ALLIGATOR                                                                                                                                   | THREE FINGER JO                                                                                                                                                             |
| Dimensions (in mm)      |                                                      |          |                                                           |                                                                                          |
| Jaw range               | 70°                                                                                                                                   | 70°                                                                                       | 160°                                                                                                                                        | 160°                                                                                                                                                                        |
| Maximum Ø grab size     | 12.5 mm<br>required space: 16.8 mm                                                                                                    | 28 mm<br>required space: 32 mm                                                            | 77 mm<br>required space: 84 mm                                                                                                              | 77 mm<br>required space: 84 mm                                                                                                                                              |
| Application             | Ideal for particularly narrow environments. Additional gripping teeth allow for secure grabbing and recovering of the foreign object. | Strong „bite“ despite its small size. Safe recovery of even medium sized foreign objects. | Large „jaws“ for large objects. Slightly backwards tilted gripping teeth slide over the object and act as barbs when the gripper is closed. | With the help of its gripping „fingers“, it also grabs shapeless and softer objects such as cloths, wich are often difficult to retrieve because of their texture and size. |

## Push Rod Quick Connection System

Various push rods, extensions and couplings that allow to manage the most complex recovery tasks. The push rod set includes fiberglass rods in three different degrees of hardness to obtain the best possible flexibility and guidance.



## Non-Motorized Retrieval Pilers

In order to grab and retrieve objects from especially narrow environment, we offer various non-motorized retrieval pilers with diameters starting at 1.65 mm and lengths up to 9 m.

## Non-Motorized Retrieval Tools

### STAINLESS STEEL WIRE SNARE

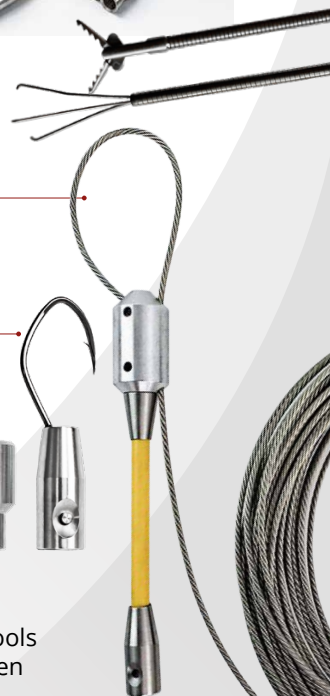
Durable wire loop for grabbing large, non-magnetic objects that cannot be grabbed with a gripper. The solid 2.5 mm multi-core stainless steel wire construction provides the necessary strength for loosening and recovering jammed objects. Connect push rods for optimal guidance and positioning.

### HOOK TOOL

This simple hook works great in combination with our push rods and is the ideal tool for retrieving objects such as cleaning cloths, work gloves, gaskets, etc.

### RETRIEVAL MAGNETS

We offer three retrieval magnets in different sizes and with different magnetic strengths. Connected to the push rods they allow for a fast and efficient retrieval of magnetic objects such as nuts, cans or residues such as metal chips or metal dust.



## Retrieval Tool Kits

Besides retrieval tools our cases also include a wide range of standard tools and consumables. There are three different kits available which have been put together with our knowledge from many years of FOSAR experience. The Starter-Kit consists of all non-motorized retrieval tools, while the Standard-Kit includes the non-motorized retrieval tools as well as the GR 8. The greatest kit, the Pro-Kit, additionally includes the GR 16 gripper.



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