

# Retrieval tools

## New internal and external retrieval devices recover loose parts and debris from hard-to-reach areas






Loose parts and foreign objects stuck inside piping or other confined spaces can cause serious damage to manufacturing, process and power generation systems. Weapons and explosives pose serious danger during security operations if they are not disarmed. Equally devastating is the destruction that can result from loose parts lost in aircraft turbines.

Waygate Technologies now offers a complete line of external and internal retrieval tools to remove foreign objects from hard-to-reach areas—without requiring disassembly. Our specialized tools provide significant cost-savings by minimizing downtime and eliminating the need for additional equipment.

## 1.4mm Internal working channel tools







These internal working channel tools are designed to be used with a probe which contains an internal working channel which allows for the insertion of special retrieval tools.

**Our wide selection of internal tools includes:**

<p><b>Small Magnet - 4.0mm diameter</b></p> 	<p><b>Part number:</b> WT-144035M (for use with 3.5m probes) WT-144032M (for use with 3.2m probes)</p> <p><b>Description:</b> Magnet tool with small 4.0mm magnet</p> <p><b>Application:</b> Removes foreign objects or debris by magnetic force</p> <p><b>Benefit:</b> Able to reach inside tight spaces to remove metal and other ferrous objects</p>
<p><b>Large Magnet - 8.0mm diameter</b></p> 	<p><b>Part number:</b> WT-148035M (for use with 3.5m probes) WT-148032M (for use with 3.2m probes)</p> <p><b>Description:</b> Magnet tool with small 8.0mm magnet</p> <p><b>Application:</b> Removes foreign objects or debris by magnetic force</p> <p><b>Benefit:</b> Able to reach inside tight spaces to remove metal and other ferrous objects</p>
<p><b>Small Alligator - 1.4mm diameter</b></p> 	<p><b>Part number:</b> WT-141435A (for use with 3.5m probes) WT-141432A (for use with 3.2m probes)</p> <p><b>Description:</b> Alligator tool with small 1.4mm alligator-shaped jaws</p> <p><b>Application:</b> Grabs foreign objects and debris with alligator-shaped jaws</p> <p><b>Benefit:</b> Fits into confined areas and grabs onto awkwardly positioned objects</p>
<p><b>Large Alligator - 3.0mm diameter</b></p> 	<p><b>Part number:</b> WT-143035A (for use with 3.5m probes) WT-143032A (for use with 3.2m probes)</p> <p><b>Description:</b> Alligator tool with large 3.0mm alligator-shaped jaws</p> <p><b>Application:</b> Grabs foreign objects and debris with alligator-shaped jaws</p> <p><b>Benefit:</b> Fits into confined areas and grabs onto awkwardly positioned objects</p>
<p><b>Three- Prong Grasper Tool - 1.4mm diameter</b></p> 	<p><b>Part number:</b> WT-141432P (for use with 3.2m probes) WT-141435P (for use with 3.5m probes)</p> <p><b>Description:</b> 1.4mm three pronged grasper tool</p> <p><b>Application:</b> Enters into confined areas to close over foreign matter and take it out of the way</p> <p><b>Benefit:</b> Intuitive design for easy removal of small objects in enclosed areas</p>

Continued overleaf

## 1.4mm Internal working channel tools (cont.)

<p><b>Two-Wire Snare Tool -1.4mm diameter</b></p> 	<p><b>Part number:</b> WT-141432S (for use with 3.2m probes) WT-141435S (for use with 3.5m probes)</p> <p><b>Description:</b> 1.4mm snare basket tool</p> <p><b>Application:</b> Grabs onto foreign objects and debris and pulls it away</p> <p><b>Benefit:</b> Specially shaped tool snares objects to effectively retrieve and remove foreign objects</p>
<p><b>Hook and Comparator Tool - 1.4mm diameter</b></p>  <p><b>Note:</b> Hook and Comparator tools sold separately</p>	<p><b>Part number:</b> WT-141435HC (for use with 3.5m probes) WT-141432HC (for use with 3.2m probes)</p> <p><b>Description:</b> 1.4mm HOOK / COMPARITOR cable – allows attachment of HOOK tool or Comparator tool into threaded receptacle on tool</p> <p><b>Application:</b> Supports “hook &amp; drag” inspection application on Pratt &amp; Whitney military engines. Supports introduction of known dimension item into field of view for comparison measurements</p> <p><b>Benefit:</b> Tool required by P&amp;W engine maintenance documents. Supports performance of comparison measurements</p>
<p><b>Four-Wire Basket Snare Tool - 1.4mm diameter</b></p> 	<p><b>Part number:</b> WT-141432K (For use with 3.2m probes) WT-141435K (For use with 3.5m probes)</p> <p><b>Description:</b> 1.4mm wire basket tool</p> <p><b>Application:</b> Enters small spaces and fits over objects to capture and pull away</p> <p><b>Benefit:</b> Basket design allows you to entrap foreign matter and quickly remove it</p>
<p><b>Brush Tool- 3.5mm diameter</b></p> 	<p><b>Part number:</b> WT-143535B (for use with 3.5m probes) WT-143532B (for use with 3.2m probes)</p> <p><b>Description:</b> 3.5mm brush tool</p> <p><b>Application:</b> Cleans desired areas by rubbing over the surface</p> <p><b>Benefit:</b> Small enough to enter into tight spaces for cleaning purposes</p>
<p><b>Comparator Tool Set</b></p> 	<p><b>Part number:</b> WT-C</p> <p><b>Description:</b> Vial of (5) comparator tools, 0.050” blade width</p> <p><b>Application:</b> Supports introduction of an item of known dimension into the field of view</p> <p><b>Benefit:</b> Allows distance and area measurements to be performed without requiring measurement tips</p>
<p><b>Hook Tool Set</b></p> 	<p><b>Part number:</b> WT-H</p> <p><b>Description:</b> Vial of (5) hook tools</p> <p><b>Application:</b> Supports “hook &amp; drag” inspection application on Pratt &amp; Whitney military engines</p> <p><b>Benefit:</b> Tool required by P&amp;W engine maintenance documents</p>

Parts sold separately or as a kit

## 1.4mm Internal working channel tool kits

Kits of 1.4mm tools in a Velcro pouch. Choose kits compatible with working channel probe length (either 3.2m or 3.5m).

### WT-632KIT

1.4mm tool kit for use with 3.2m working channel probes



WT-Pouch32	Pouch to hold 3.2m working tools
WT-141432HC	1.4mm HOOK COMPARATOR CABLE
WT-141432P	1.4mm 3-prong GRIPPER TOOL
WT-141432A	1.4mm SMALL ALLIGATOR TOOL
WT-141432S	1.4mm 2-WIRE SNARE TOOL
WT-143032A	1.4mm with a 3.0mm LARGE ALLIGATOR TOOL
WT-143032B	1.4mm with 3.5mm BRUSH TOOL
WT-144032M	1.4mm with 4.0mm SMALL MAGNET TOOL
WT-148032M	1.4mm with 8.0mm LARGE MAGNET TOOL
WT-C50	ASSY COMPARATOR VIAL .050-Qty (5)
WT-H	ASSY, HOOK VIAL-Qty (5)
WT-141432K	1.4mm 4 WIRE BASKET SNARE TOOL

### WT-635KIT

1.4mm tool kit for use with 3.5m working channel probes



WT-Pouch35	Pouch to hold 3.5m working tools
WT-141435HC	1.4mm HOOK COMPARATOR CABLE
WT-141435P	1.4mm 3-prong GRIPPER TOOL
WT-141435A	1.4mm SMALL ALLIGATOR TOOL
WT-141435S	1.4mm 2-WIRE SNARE TOOL
WT-143035A	1.4mm with a 3.0mm LARGE ALLIGATOR TOOL
WT-143535B	1.4mm with 3.5mm BRUSH TOOL
WT-144035M	1.4mm with 4.0mm SMALL MAGNET TOOL
WT-148035M	1.4mm with 8.0mm LARGE MAGNET TOOL
WT-C50	ASSY COMPARATOR VIAL .050-Qty (5)
WT-H	ASSY, HOOK VIAL-Qty (5)
WT-141435K	1.4mm 4 WIRE BASKET SNARE TOOL



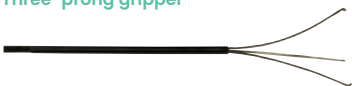



### External attachment kit for 1.4mm tools



<b>Part number:</b>	WT-1.4MMEXT KIT
<b>Description:</b>	External attachment kit to allow use of 1.4mm (0.055") working tools with any diameter VideoProbe
<b>Application:</b>	Kit to allow attachments of internal working tools with any diameter VideoProbe
<b>Benefit:</b>	Allows user to utilize internal retrieval tools line with multiple VideoProbe diameters



# External working tools

Quickly and easily clip external working tools onto small-diameter probes to achieve unrivaled retrieval capabilities with just one piece of equipment. Our complete line of external retrieval tools for use with 6.1 mm Ø or 8.4 mm VideoProbe®.

<p><b>Large alligator</b></p> 	<p><b>Part number:</b> WT-308030A  <b>Description:</b> 8.0mm alligator tool 3.3m (129.9") working length  <b>Application:</b> Clamps down on items and retrieves small objects of any shape  <b>Benefit:</b> Alligator "teeth" grab objects and get them out of the way fast</p>
<p><b>Snare</b></p> 	<p><b>Part number:</b> WT-304030S  <b>Description:</b> 4.0mm snare tool 3.3m (129.9") working length  <b>Application:</b> Grabs onto foreign objects and debris and pulls it away  <b>Benefit:</b> Specially shaped tool snares objects to effectively retrieve and remove</p>
<p><b>Three-prong gripper</b></p> 	<p><b>Part number:</b> WT-304030P  <b>Description:</b> 4.0mm three-pronged gripper 3.3m (129.9") working length  <b>Application:</b> Clasps onto debris caught in hard-to-reach areas and takes it away  <b>Benefit:</b> Grips objects from three angles to easily grab foreign matter</p>
<p><b>Four-wire basket</b></p> 	<p><b>Part number:</b> WT-304030B  <b>Description:</b> 4.0mm wire basket tool 3.3m (129.9") working length  <b>Application:</b> Enters small spaces and fits over objects to capture and pull away  <b>Benefit:</b> Basket design allows you to entrap foreign matter and quickly remove it</p>
<p><b>Magnet</b></p> 	<p><b>Part number:</b> WT-308030M  <b>Description:</b> 8.0mm magnet tool 3.3 m (129.9") working length  <b>Application:</b> Removes foreign objects or debris by magnetic force  <b>Benefit:</b> Able to reach inside tight spaces to remove metal and other magnetic objects</p>
<p><b>Fork and tine</b></p> 	<p><b>Part number:</b> WT-306030F  <b>Description:</b> 6.0mm fork and tine 3.3m (129.9) working length  <b>Application:</b> Inserts into small diameter openings for retrieval of objects in pipes or machinery  <b>Benefit:</b> Forked shape allows for secure gripping to remove debris and foreign objects</p>



All items shown smaller than actual size. Parts sold separately or as a kit

## 6.1mm External Tool Clip Set

<p><b>WTH6 6.1mm External Tool Clip Set</b></p> 	<p><b>Part number:</b> WTH6  <b>Description:</b> Set of (6) clips to allow external working tools to be attached to a 6.1mm probe  <b>Application:</b> General retrieval applications  <b>Benefit:</b> Allows standard 6.1mm probe to be used as a retrieval probe</p>
<p><b>WTH8 8.4mm External Tool Clip Set</b></p> 	<p><b>Part number:</b> WTH6  <b>Description:</b> Set of (6) clips to allow external working tools to be attached to an 8.4mm probe  <b>Application:</b> General retrieval applications  <b>Benefit:</b> Allows standard 8.4mm probe to be used as a retrieval probe</p>

## External Working Tool Kits

Retrieval tool kit for use with a 6.1mm or 8.4mm x 3.0m VideoProbe.

<p><b>WT-630KIT Tool</b> kit includes:</p> 	WT-Pouch630	Nylon pouch to hold external working tools
	WT-308030A	8.0mm alligator tool 3.3M working length
	WT-304030S	4.0mm snare tool 3.3M working length
	WT-304030P	4.0mm three prong gripper tool 3.3M working length
	WT-304030B	4.0mm four wire basket tool 3.3M working length
	WT-308030M	8.0mm magnet tool 3.3M working length
	WT-306030F	6.0mm fork and tine tool 3.3M working length
	WTH6	Kit of (6) probe attachment clips for 6.1mm probe
<p><b>WT-830KIT</b> Tool kit includes:</p> 	WT-Pouch830	Nylon pouch to hold external working tools
	WT-308030A	8.0mm alligator tool 3.3M working length
	WT-304030S	4.0mm snare tool 3.3M working length
	WT-304030P	4.0mm three prong gripper tool 3.3M working length
	WT-304030B	4.0mm four wire basket tool 3.3M working length
	WT-308030M	8.0mm magnet tool 3.3M working length
	WT-306030F	6.0mm fork and tine tool 3.3M working length
	WTH8	Kit of (6) probe attachment clips for 8.4mm probe