Sighted Nozzle – small –

Sewer cleaning and inspection all in one go – completely wireless

Advantages:
- cleaning nozzle boasting 8 jets for efficient sewer cleaning
- ideal for operators of smaller sewer networks
- also suits vehicles equipped with a ¾" hose
- supplies images also in slippery pipes, where conventional cameras encounter problems
- monitoring of the cleaning process due to simultaneous video recording by the nozzle
- proof of the proper condition of the pipe in terms of the Federal Self Control Regulations and the DIN EN 14654 Standards
- early detection of damages allows for dramatic decrease of pipe maintenance cost and prevents further damages


The most important information for all sewer authorities is provided without extra effort or cost:
- Is the pipe clean?
- Is the pipe okay?

Technical Specifications
- range of operation: pipe diameters from 200 mm
- pump performance: at least 140 l/min, 100 bar
- video recording: DURING cleaning process – completely WIRELESS –

Damages and deposits detected during the cleaning process…

…localized pipe damage …deposits at the bottom of the pipe …root penetration
Sighted Nozzle

Sewer cleaning and inspection all in one go – completely wireless

Advantages:

- Gentle pipe cleaning due to cleaning efficiency adjustable to the degree of soiling
- Thus savings in water, energy and time
- Continuous monitoring of the cleaning process, simultaneous video recording possible
- Proof of the proper condition of the pipe in terms of the Federal Self Control Regulations and the DIN EN 14654 Standards
- Early detection of damages in the pipe while cleaning (localisation and documentation of early-stage damage during the cleaning process)
- In time detection of damages allows for dramatic decrease of pipe maintenance cost and prevents further damages/problems

The most important information for all sewer authorities is provided without extra effort or cost:

- Is the pipe clean?
- Is the pipe okay?

New generation - with internal power supply -

Technical Specifications

- range of operation: pipe diameters from 250mm
- transmitter range: > 300 m
- operation time: unlimited
- weight: 20 – 28 kg
- pump performance: from 160 l/min, 120bar
- WIRELESS transmission of video signal by radio DURING the cleaning process

Fig.1: for pipe diameters from 500 mm

Fig.2: for pipe diameters from 250 mm

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Sighted Nozzle

Sewer cleaning and inspection all in one go – completely wireless

Scan to see video

Improvement of the cleaning process and compliance with the Federal Self-Control Regulations as well as DIN EN 14654 Standards – WITHOUT extra cost!!

Damages and deposits you would NEVER have spotted WITHOUT camera during cleaning…

...deposits on the side of the pipe

...localized pipe damage

...deposits at the bottom of the pipe

...root penetration

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**Mini chain cutters**

KEG Chain Cutters are used if conventional cleaning tools fail to remove such hard obstructions as roots, scale, cement wash.

### Advantages:
- 90° lateral applications possible (without swivel joint)
- Efficient cleaning by self-sharpening chains
- Replaceable nozzle inserts
- Maintenance-free
- Time and energy-saving operation

### Technical Specifications:
- Nozzle body made of special steel
- Self-sharpening chains
- Maintenance-free bearing with 2-year warranty
- Suitable for working pressure from 60 bar

**2-year warranty* on maintenance-free slide bearings - entire equipment also for rent** -

*Chain cutters must be operated with an HP swivel joint!*

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**2-year warranty* on maintenance-free slide bearings - entire equipment also for rent** -

*Chain cutters must be operated with an HP swivel joint!*

**Mini Chain Cutter DN 75**
NEW: with stainless steel drill point suitable for pipes from 75 - 250 mm

**Hummingbird Chain Cutter DN 50**
for pipe diameter 50 - 150 mm, with stainless steel drill point
- Light, flexible, agile
- Also available with pulling device
- With skids for pipe diameters 100, 125 and 150 mm

<table>
<thead>
<tr>
<th>Part N°</th>
<th>Model</th>
<th>Pipe diameter (mm)</th>
<th>Flow rate (liter/min)</th>
<th>Pressure (bar)</th>
<th>Weight (kg/piece)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020 0344</td>
<td>Mini DN 75</td>
<td>75-250</td>
<td>from 50</td>
<td>from 60</td>
<td>2.5</td>
</tr>
<tr>
<td>0020 0110</td>
<td>Hummingbird DN 50</td>
<td>50-150</td>
<td>from 28</td>
<td>from 60</td>
<td>0.6</td>
</tr>
</tbody>
</table>

**Additional equipment:**

**Mini DN 75**
- Guide skid for pipe diameter
  - 100 mm
  - 125 mm
  - 150 mm
  - (min. 70l/m) 200 mm

- For pipe diam. 225/250 mm:
  - Guide skid for diam. 200 mm
    + 4 skids*

- HP swivel joint
- 2 m replacement chain
- Hard metal tips for concrete-like deposits

**Hummingbird DN 50**
- Guide skid for pipe diameter
  - 100 mm
  - 125 mm
  - 150 mm

- HP swivel joint
- 2 m replacement chain
- Hard metal tips for concrete-like deposits
- Also available with pulling device

*...accord. to KEG’s terms of warranty © 2013 All rights reserved
The Cutters SUPER PLUS 150/200 are efficient tools to handle the most hard obstructions, such as roots, lime, scaling, cement wash, tuberculation, and other types of deposits and blockages using self-sharpening chains. Chains can be adjusted for different pipe diameters. The optimum cutter for pumps of medium to high performance.

Advantages:
- application also in difficult pipes (offsets, pipe rips, protruding taps, etc.)
- replaceable penetrator and nozzle inserts
- solid and reliable construction
- maintenance-free bearings with 2-year warranty*
- efficient cleaning by self-sharpening chains

Technical Specifications:
- material of nozzle body: special stainless steel
- 4 (SFP150) or 6 (SFP200) self-sharpening cutting tools
- both cutters can be used in egg-shaped pipes

Chain cutters must be operated with an HP swivel joint!

<table>
<thead>
<tr>
<th>Part N°</th>
<th>Model</th>
<th>Hose connection</th>
<th>Flow Rate (liter/min)</th>
<th>Pressure from</th>
<th>Pipe diameter (mm) basic equipment</th>
<th>Pipe diameter (mm) additional equipment</th>
<th>Weight (kg/piece)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020 0242</td>
<td>Super Plus 150</td>
<td>1” or ¼”</td>
<td>from 120</td>
<td>100 bar</td>
<td>150 – 400</td>
<td>800 / 1200 / 2000 / 3000</td>
<td>12</td>
</tr>
<tr>
<td>0020 0151</td>
<td>Super Plus 200</td>
<td>1 ¼” or 1”</td>
<td>from 200</td>
<td>100 bar</td>
<td>200 – 500</td>
<td>800 / 1200 / 2000 / 3000</td>
<td>15</td>
</tr>
</tbody>
</table>

Additional Equipment:
- HP swivel joint 1” (SFP150) Part N° 0080 0012
- HP swivel joint 1 ¼” (SFP200) Part N° 0080 0013
- cross cutter 32x45 made of special steel Part N° 0020 0070
- 5m replacement chain Part N° 0021 0022
- hard metal tips for concrete-like deposits Part N° 0021 0111
- sets of additional equipment for pipe diameters up to 800 / 1200 / 2000 mm
- spray bars for all-round pipe cleaning up to pipe diameter 800 / 1200 / 2000 / 3000 mm
- additional equipment for egg-shaped pipes

* ... accord. to KEG's terms of warranty
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Additional equipment for cutter Super Plus 150
- up to pipe diameter 2000 mm
- for egg-shaped pipes

Additional equipment for cutter Super Plus 200
- up to pipe diameter 2000 mm
- for egg-shaped pipes
- for pipe diameters from 800 mm to 1200 mm
- pulling device (see fig. below)
- extension sets for larger pipes upon request

Cutter Super Plus 200 with pulling device
- tailored for vehicles with lower pump performance
- see fig. on the right for pipe diameter 1200 mm

Spray bars
Set of equipment for optimum all-round pipe cleaning
- also in egg-shaped and special pipes – especially for pipe diameters
  - up to 800 mm – cutter Super Plus 150 / 200
  - up to 3000 mm – cutter Super Plus 200

The cutter is adjustable to the individual pipe diameter by means of tube extensions, rotation speed can be individually controlled.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>spray bars incl. inserts</td>
<td>0020 0041</td>
</tr>
<tr>
<td>pipe extensions 50 mm</td>
<td>0020 0076</td>
</tr>
<tr>
<td>pipe extensions 100 mm</td>
<td>0020 0038</td>
</tr>
<tr>
<td>pipe extensions 150 mm</td>
<td>0020 0039</td>
</tr>
<tr>
<td>pipe extensions 250 mm</td>
<td>0020 0040</td>
</tr>
<tr>
<td>pipe extensions 400 mm</td>
<td>0020 0077</td>
</tr>
</tbody>
</table>
Cutter SUPER NOVA 400

An **extra robust cutter** of the newest generation with reinforced chains to efficiently handle deposits and incrustations of all kinds in pipes and sewers, such as lime, concrete, extensive root growth, etc. The optimum cutter for pumps of medium to high performance, also suitable for vehicles with water recycling system!

**Advantages:**
- Application also in difficult pipes (offsets, pipe rips, protruding taps, etc.)
- Replaceable nozzle inserts
- Solid and reliable construction
- Maintenance-free bearings with 2-year warranty*
- Efficient cleaning by self-sharpening reinforced chains

**Technical Specifications:**
- Material of nozzle body: Special stainless steel
- 4 self-sharpening cutting tools

**NEW GENERATION**
- **extra robust**
- **maintenance-free bearings**
- **with 2-year warranty***

---

...concrete deposits in the pipe

<table>
<thead>
<tr>
<th>Part N°</th>
<th>Model</th>
<th>Hose connection</th>
<th>Flow rate (liter/min)</th>
<th>Pressure bar</th>
<th>Pipe diameter basic equipment (mm)</th>
<th>Pipe diameter add. equipment (mm)</th>
<th>Weight (kg/piece)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0020 0400</td>
<td>SuperNova4000</td>
<td>1 ¼&quot; or 1&quot;</td>
<td>from 180</td>
<td>from 100</td>
<td>150 – 400</td>
<td>600 / 800 / 1200</td>
<td>30</td>
</tr>
<tr>
<td>0020 0401</td>
<td>SuperNova4000 Recycling</td>
<td>1 ¼&quot; or 1&quot;</td>
<td>from 180</td>
<td>from 100</td>
<td>150 – 400</td>
<td>600 / 800 / 1200</td>
<td>30</td>
</tr>
</tbody>
</table>

Chain cutters must be operated with HP swivel joint!

**Additional equipment:**
- **HP swivel joint 1 ¼"** Part N° 0080 0013
- **HP swivel joint 1 ¼" - 1"** Part N° 0080 1141
- **5 m replacement chain** Part N° 0020 0422
- **Hard metal tips** Part N° 0021 0111
- Expansion kit for pipe diameters up to 600 / 800 / 1200 mm
- Spray bars for all-round pipe cleaning up to pipe diameter 1200 mm

* ... accord. to KEG’s terms of warranty  © 2013 All rights reserved
KEG Floor Cleaners - utilizing patented fluid mechanics - provide considerably higher efficiency than conventional sewer cleaning nozzles. Due to optimum fluid mechanics, the entire flow from the high pressure hose is converted into maximum cleaning power. The side walls of the pipe are cleaned with different jet angles, which makes these Floor Cleaners ideal for removing sludge, debris, mud, etc. Part N° 0010 0120 also suitable for slot drain cleaning.

Advantages of the patented fluid mechanics:

- reduced water and energy consumption by:
  - zero water turbulence inside nozzle body
  - efficiency rate of about 80 %
- time-saving operation by increased performance
- extra cost reduction by:
  - replaceable nozzle inserts
  - wear-resistant material of nozzle body

Extra weight container to be filled with lead in the event of high pump performance (from 1" hose connection)

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>( \frac{1}{2} &quot; ) or ( \frac{3}{4} &quot; )</th>
<th>( \frac{3}{4} &quot; ) or 1&quot;</th>
<th>( \frac{3}{4} &quot; ) or 1&quot;</th>
<th>( \frac{3}{4} &quot; ) - 1&quot; - 1 ( \frac{1}{4} &quot; )</th>
<th>1&quot; - 1 ( \frac{1}{4} &quot; ) - 1 ( \frac{1}{2} &quot; )</th>
<th>1&quot; - 1 ( \frac{1}{4} &quot; ) - 1 ( \frac{1}{2} &quot; )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>0010 0120</td>
<td>0010 0121</td>
<td>0010 0122</td>
<td>0010 0123</td>
<td>0010 0124</td>
<td>0010 0125</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>8.0</td>
<td>12.0</td>
<td>14.0</td>
<td>18.0</td>
<td>18.0</td>
<td>22.0</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>5</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 100</td>
<td>from 200</td>
<td>from 250</td>
<td>from 300</td>
<td>from 400</td>
<td>from 500</td>
</tr>
</tbody>
</table>

Floor cleaners must be operated with HP swivel joint!

Additional equipment:

- Y-connector with 2 HP hoses (325 mm) for simultaneously operating 2 floor cleaners Part N° 0010 0126a
- Y-connector with 2 HP hoses (500 mm) for simultaneously operating 2 floor cleaners Part N° 0010 0126
- jet angle adapters Part N° 0010 0184
- lead balls Part N° 0010 0127
- 2 supports for part 0100 0120 Part N° 0010 0119
- for slot drain cleaning
Royal Nozzle

The Royal Nozzle is made of special hardened stainless steel. Utilizing the patented fluid mechanics and two different jet angles it is mainly used for all around cleaning of pipe diameters from 300 to 1200 mm. KEG’s Royal Nozzle boasts a maximum of performance so far unrivaled.

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¾”</th>
<th>1”</th>
<th>1 ¼”</th>
<th>1 ½”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>00100020</td>
<td>00100021</td>
<td>00100022</td>
<td>00100023</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>190 / 108</td>
<td>190 / 108</td>
<td>190 / 108</td>
<td>190 / 108</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>300 - 1000</td>
<td>300 - 1200</td>
<td>300 – 1200</td>
<td>300 - 1200</td>
</tr>
</tbody>
</table>

Torpedo Nozzle

Torpedo Nozzle utilizing the patented fluid mechanics is mainly used for the removal of sand, silt, mud and debris etc. from the floor of pipes and in applications when good traction capacity is needed. Two different jet angles ensure a very good mud and sand transport especially in pipe diameters from 150 – 400 mm. The Torpedo Nozzle is made of special hardened stainless steel and boasts replaceable nozzle inserts

- optimum mud and sand transport in round pipes (Royal Nozzle – Traction)
- optimum mud and sand transport in egg-shaped pipes

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¾”</th>
<th>1”</th>
<th>1 ¼”</th>
<th>1 ½”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>00100030</td>
<td>00100031</td>
<td>00100032</td>
<td>00100033</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>5.6</td>
<td>5.6</td>
<td>5.6</td>
<td>5.6</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>180 / 98</td>
<td>180 / 98</td>
<td>180 / 98</td>
<td>180 / 98</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>150 - 400</td>
<td>150 - 400</td>
<td>150 - 400</td>
<td>150 - 400</td>
</tr>
</tbody>
</table>

Advantages of patented fluid mechanics

- Reduced water and energy consumption by
  - zero water turbulence inside nozzle body
  - efficiency rate of about 90 %
- time-saving operation by increased performance
- extra cost reduction by:
  - replaceable nozzle inserts
  - wear resistant material of nozzle body
- less maintenance of pump & vehicle

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Sewer Nozzle

The Sewer Nozzle utilizing the patented fluid mechanics and two different jet angles was primarily designed for a day to day all around pipe cleaning. It is made of special hardened stainless steel and boasts replaceable nozzle inserts.

### Available sizes for hose connection

<table>
<thead>
<tr>
<th></th>
<th>3/8&quot;</th>
<th>1/2&quot;</th>
<th>3/4&quot;</th>
<th>1&quot;</th>
<th>1 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part N°</strong></td>
<td>0010004</td>
<td>00100001</td>
<td>00100002</td>
<td>00100003</td>
<td>0010 1103</td>
</tr>
<tr>
<td><strong>Weight (kg)</strong></td>
<td>6.5</td>
<td>6.5</td>
<td>8.7</td>
<td>8.7</td>
<td></td>
</tr>
<tr>
<td><strong>Length / Diameter (mm)</strong></td>
<td>180 / 99</td>
<td>180 / 99</td>
<td>208 / 109</td>
<td>208 / 109</td>
<td></td>
</tr>
<tr>
<td><strong>Number of inserts</strong></td>
<td>10</td>
<td>10</td>
<td>12</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Pipe diameter (mm)</strong></td>
<td>150 - 400</td>
<td>150 - 500</td>
<td>150 - 600</td>
<td>150 - 600</td>
<td></td>
</tr>
</tbody>
</table>

Cleaning Nozzle

The Cleaning Nozzle utilizing the patented fluid mechanics and two different jet angles is mainly used for all around cleaning of specifically smaller pipe diameters. Due to its light design it will go round bends and can be successfully used in different applications. It is made of special hardened stainless steel and boasts replaceable nozzle inserts.

### Available sizes for hose connection

<table>
<thead>
<tr>
<th></th>
<th>3/8&quot;</th>
<th>1/2&quot;</th>
<th>3/4&quot;</th>
<th>1&quot;</th>
<th>1 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part N°</strong></td>
<td>00100004</td>
<td>00100001</td>
<td>00100002</td>
<td>00100003</td>
<td>0010 1103</td>
</tr>
<tr>
<td><strong>Weight (kg)</strong></td>
<td>0.3</td>
<td>0.3</td>
<td>1.7</td>
<td>2.7</td>
<td>2.7</td>
</tr>
<tr>
<td><strong>Length / Diameter (mm)</strong></td>
<td>45 / 44</td>
<td>45 / 44</td>
<td>105 / 64</td>
<td>125 / 74</td>
<td>125 / 74</td>
</tr>
<tr>
<td><strong>Number of inserts</strong></td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td><strong>Pipe diameter (mm)</strong></td>
<td>75 - 200</td>
<td>75 - 200</td>
<td>100 - 300</td>
<td>100 - 400</td>
<td>100 - 400</td>
</tr>
</tbody>
</table>

Advantages of patented fluid mechanics

- Reduced water and energy consumption by
  - zero water turbulence inside nozzle body
  - efficiency rate of about 80%
- Time-saving operation by increased performance
- Extra cost reduction by:
  - replaceable nozzle inserts
  - wear resistant material of nozzle body
- Less maintenance of pump & vehicle

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The Traction Nozzle with patented fluid mechanics and two different jet angles is an excellent tool to remove deposits and blockages (for example sand, debris, mud, etc.), in mainly difficult pipes and when tight traction is required, especially in smaller pipe diameters. This small maneuverable nozzle is also suitable for pipes with offsets and bends. The Traction Nozzle is made of highly wear-resistant special steel and equipped with replaceable inserts.

**Advantages**
- Reduced water and energy consumption by:
  - zero water turbulence inside nozzle body
  - efficiency rate of about 80%
- time-saving operation by increased performance
- extra cost reduction by:
  - replaceable nozzle inserts
  - highly wear-resistant, stainless material of nozzle body
- available with or without forward jet
- less maintenance of pump and vehicle

---

**Facts Worth Knowing About KEG Cleaning Nozzles**

**Recycled Water**
KEG’s cleaning nozzles are basically suitable for use with recycled water. On request we advise you on this particular issue and assist you in selecting the proper cleaning tool and its size according to pump performance and pipe diameter.

**KEG Warranty**
All KEG pipe cleaning tools utilizing patented fluid mechanics and equipped with titanium ceramic inserts are available with 3-year warranty* on nozzles and inserts (*according to KEG’s Terms of Warranty).

**Material/Nozzle Inserts**
Our cleaning nozzles are made of highly wear-resistant special hardened stainless steel. They come with replaceable threaded inserts (except for Ball and Standard Nozzles) and are individually configured according to pump performance.

---

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Egg Nozzle

Light and agile all-round nozzle

- with forward jet
- replaceable nozzle inserts front and rear

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¼”</th>
<th>3/8”</th>
<th>½”</th>
<th>¾”</th>
<th>1”</th>
<th>1 ¼”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>00100210</td>
<td>00100211</td>
<td>00100212</td>
<td>00100213</td>
<td>00100214</td>
<td>00100215</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>30 / 22</td>
<td>30 / 22</td>
<td>50 / 37</td>
<td>60 / 40</td>
<td>70 / 55</td>
<td>85 / 65</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.2</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.7</td>
<td>1.2</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 30</td>
<td>from 30</td>
<td>from 40</td>
<td>from 70</td>
<td>from 80</td>
<td>from 100</td>
</tr>
</tbody>
</table>

Devastator Egg Nozzle (Poking Nozzle)

Light and agile all-round nozzle

- with forward jet
- replaceable nozzle inserts front and rear

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¼”</th>
<th>3/8”</th>
<th>½”</th>
<th>¾”</th>
<th>1”</th>
<th>1 ¼”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>00100218</td>
<td>00100219</td>
<td>00100220</td>
<td>00100221</td>
<td>00100222</td>
<td>00100223</td>
</tr>
<tr>
<td>Length / Ø (mm)</td>
<td>22 / 22</td>
<td>22 / 22</td>
<td>34 / 20</td>
<td>45 / 30</td>
<td>55 / 39</td>
<td>70 / 49</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.2</td>
<td>0.2</td>
<td>0.3</td>
<td>0.3</td>
<td>0.6</td>
<td>1.1</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 30</td>
<td>from 30</td>
<td>from 30</td>
<td>from 40</td>
<td>from 70</td>
<td>from 70</td>
</tr>
</tbody>
</table>

Twister Nozzle

Light and agile all-round nozzle

- with forward jet
- replaceable nozzle inserts front and rear

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>½” small</th>
<th>½”</th>
<th>¾”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>0010 1320</td>
<td>0010 0320</td>
<td>0010 0321</td>
</tr>
<tr>
<td>Length / Ø (mm)</td>
<td>60 / 30</td>
<td>103 / 30</td>
<td>103 / 30</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.8</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 40</td>
<td>from 40</td>
<td>from 40</td>
</tr>
</tbody>
</table>

Nozzle Display

- Available for all sizes & hose connections
- Nozzles can be set up individually
  - according to customer requirements

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Standardized Nozzles

Standardized sewer cleaning nozzles for different applications.

**Ball Nozzle**
- with or without forward jet
- small, maneuverable and very agile
- suitable for all plumbing applications
- made of stainless steel

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>1/8&quot;</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°, w/o forward jet</td>
<td>0010 0110</td>
<td>0010 0114</td>
<td>0010 0112</td>
<td>0010 0116</td>
</tr>
<tr>
<td>with forward jet</td>
<td>0010 0111</td>
<td>0010 0115</td>
<td>0010 0113</td>
<td>0010 0117</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>15 / 15</td>
<td>24 / 20</td>
<td>24 / 24</td>
<td>30 / 30</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.02</td>
<td>0.05</td>
<td>0.08</td>
<td>0.1</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>20 - 100</td>
<td>25 - 125</td>
<td>25 - 125</td>
<td>40 - 150</td>
</tr>
</tbody>
</table>

**Standard Nozzle**
- with or without forward jet
- light, maneuverable version
- made of stainless material

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>1/8&quot;</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°, w/o forward jet</td>
<td>0010 0081</td>
<td>0010 0085</td>
<td>0010 0083</td>
<td>0010 0087</td>
</tr>
<tr>
<td>with forward jet</td>
<td>0010 0082</td>
<td>0010 0086</td>
<td>0010 0084</td>
<td>0010 0088</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>15 / 15</td>
<td>24 / 20</td>
<td>24 / 24</td>
<td>30 / 30</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.02</td>
<td>0.03</td>
<td>0.08</td>
<td>0.2</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>20 - 100</td>
<td>25 - 100</td>
<td>25 - 100</td>
<td>40 - 150</td>
</tr>
</tbody>
</table>

**Sewer Flush Nozzle**
- made of wear-resistant, hardened material
- solid and reliable all-round nozzle
- with replaceable propulsion inserts (except for hose connections 1/4" and 3/8")
- 1/4" and 3/8" version available with forward jet

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
<th>¾&quot;</th>
<th>1&quot;</th>
<th>1 ¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°, w/o forward jet</td>
<td>0010 0100</td>
<td>0010 0098</td>
<td>0010 0101</td>
<td>0010 0102</td>
<td>0010 0103</td>
<td>0010 0104</td>
</tr>
<tr>
<td>with forward jet</td>
<td>0010 0099</td>
<td>0010 0097</td>
<td>0010 0101</td>
<td>0010 0102</td>
<td>0010 0103</td>
<td>0010 0104</td>
</tr>
<tr>
<td>Length / Diameter (mm)</td>
<td>30 / 28</td>
<td>30 / 28</td>
<td>52 / 38</td>
<td>98 / 64</td>
<td>148 / 88</td>
<td>178 / 98</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.06</td>
<td>0.06</td>
<td>0.25</td>
<td>1.5</td>
<td>4.6</td>
<td>6.2</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>30 - 100</td>
<td>30 - 100</td>
<td>50 - 150</td>
<td>75 - 400</td>
<td>100 - 500</td>
<td>125 - 600</td>
</tr>
</tbody>
</table>
Special Nozzles for Line Blockages

Quattro Nozzle with forward jet
Special nozzle for clogged pipes.
The front water jets loosen the blockages, the sharp edges provide additional assistance in clearing flow off obstacles
- replaceable nozzle inserts
- nozzle body made of highly wear-resistant and stainless material

Quattro Nozzle with drill point
is excellently suitable for application in the case of total blockages and compressed material in lines. The replaceable tip deeply penetrates the blockage, the deposits being immediately washed to the rear. As the nozzle stays centered in the pipe, it is excellently suitable for applications in offsets and bends.
- nozzle inserts and drill point replaceable
- nozzle body made of highly wear-resistant and stainless material
- excellent traction, as there is no forward jet working

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
<th>¾&quot;</th>
<th>1&quot;</th>
<th>1¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>0010 0052</td>
<td>0010 0053</td>
<td>0010 0050</td>
<td>0010 0054</td>
<td>0010 0056</td>
<td>0010 0058</td>
</tr>
<tr>
<td>with forward jet</td>
<td>0010 0051</td>
<td>0010 0055</td>
<td>0010 0051</td>
<td>0010 0055</td>
<td>0010 0057</td>
<td>0010 0059</td>
</tr>
<tr>
<td>with drill point</td>
<td>0.1</td>
<td>0.1</td>
<td>0.15</td>
<td>0.4</td>
<td>0.9</td>
<td>2.7</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>30 / 22</td>
<td>30 / 22</td>
<td>55 / 30</td>
<td>70 / 45</td>
<td>95 / 57</td>
<td>170 / 75</td>
</tr>
<tr>
<td>Length / Ø (mm) with drill point</td>
<td>from 50</td>
<td>from 50</td>
<td>from 75</td>
<td>from 75</td>
<td>from 100</td>
<td>from 100</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 50</td>
<td>from 50</td>
<td>from 75</td>
<td>from 75</td>
<td>from 100</td>
<td>from 100</td>
</tr>
</tbody>
</table>

Rambo Nozzle –
Quattro Nozzle with drill point and forward jet
Special nozzle for total line blockages and compressed material.
This multi-edged nozzle combines the advantages of two nozzles in one tool: Quattro Nozzle with forward jet and Quattro Nozzle with drill point.
The replaceable tip deeply penetrates the blockage and water jets loosen blocking material and wash it away to the rear. The nozzle stays centered inside the pipe and is therefore also able to cope with offsets and to go into bends.
- drill point and nozzle inserts replaceable
- nozzle body made of highly wear-resistant and stainless material

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
<th>¾&quot;</th>
<th>1&quot;</th>
<th>1¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>0010 0067</td>
<td>0010 0067a</td>
<td>0010 0066</td>
<td>0010 0065</td>
<td>0010 0063</td>
<td>0010 0064</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.1</td>
<td>0.15</td>
<td>0.15</td>
<td>0.95</td>
<td>2.7</td>
<td>2.7</td>
</tr>
<tr>
<td>Length / diameter (mm)</td>
<td>40 / 22</td>
<td>40 / 22</td>
<td>55 / 30</td>
<td>120 / 52</td>
<td>170 / 75</td>
<td>170 / 75</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 50</td>
<td>from 50</td>
<td>from 75</td>
<td>from 75</td>
<td>from 100</td>
<td>from 100</td>
</tr>
</tbody>
</table>
Rotor nozzle - utilizing **automatic rotation speed limitation** - is perfect for all around pipe cleaning and primarily intended for grease removal. It will also remove scale, crusts and deposits of all kinds. This special rotor nozzle can be operated both with front and rear jet.

- with front and rear jet
- ideal for vehicles with water recycling system
- nozzle body made of highly wear-resistant, stainless material
- adjustable guide skids
- can also be operated without guide skid
- maintenance free, replaceable nozzle inserts

**POWER CLEAN ¾” – ½” (small)**

*Additional equipment – optional*

- Guide skid DN 100  Part N° 0020 0065
- Guide skid DN 125  Part N° 0020 0066
- Guide skid DN 150  Part N° 0020 0067
- Guide skid DN 200  Part N° 0020 0068
- Guide skid DN 250  Part N° 0020 0068b
- HP swivel joint ¾”  Part N° 0080 0011

**POWER CLEAN 1” – ¾” (medium)**

incl. guide skid for pipe diameters from 150 mm

*Additional equipment – optional*

- HP swivel joint 1”  Part N° 0080 0012
- Extra skid (4x)*  Part N° 0021 0010
- Distance plate (4x)*  Part N° 0021 0014

* to adjust guide skid to pipe diameter

**Also available for 1¼” hose connections!**

**POWER CLEAN 1¼” – 1” (large)**

incl. guide skid for pipe diameters from 200 mm

*Additional equipment – optional*

- HP swivel joint 1¼”  Part N° 0080 0013
- Extra skid (4x)  Part N° 0021 0010
- Distance plate (4x)  Part N° 0021 0014

<table>
<thead>
<tr>
<th>Available sizes for hose connection</th>
<th>¾” - ½”</th>
<th>1” - ¾”</th>
<th>1¼” - 1”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part N°</td>
<td>0010 0271</td>
<td>0010 0272</td>
<td>0010 0076</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>2.5</td>
<td>9.3</td>
<td>11</td>
</tr>
<tr>
<td>Length / diameter (mm)</td>
<td>145 / 45</td>
<td>220 / 85</td>
<td>280 / 120</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>9</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 75</td>
<td>from 150</td>
<td>from 200</td>
</tr>
</tbody>
</table>

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Rotor Nozzle

Due to its high cleaning performance the Rotor Nozzle allows for a perfect all around pipe cleaning. The constant rotary movement ensures a continuous cleaning of the interior wall of the pipe. The Rotor Nozzle is mainly used to remove grease and scale deposits as well as minor root penetrations.

Advantages:
- no maintenance required
- replaceable nozzle inserts
- highly wear-resistant special steel
- special teflon bearings

Vibration Nozzle

This nozzle is particularly suitable for the removal of hard deposits
- intended for pipes from 30 mm diameter
- due to vibrations of the nozzle hard deposits fall off the pipe walls
- highly wear-resistant stainless material of nozzle body
- maintenance free, replaceable nozzle inserts

We recommend applications under TV monitoring only!

### Available sizes for hose connection

<table>
<thead>
<tr>
<th>Part. N°</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot;</th>
<th>¾&quot;</th>
<th>1&quot; small</th>
<th>1&quot;</th>
<th>1 ¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>0.3</td>
<td>0.3</td>
<td>0.6</td>
<td>2.1</td>
<td>2.1</td>
<td>3.8</td>
<td>3.8</td>
</tr>
<tr>
<td>Length / diameter (mm)</td>
<td>62/30</td>
<td>62/30</td>
<td>77/42</td>
<td>110/60</td>
<td>110/60</td>
<td>140/78</td>
<td>140/78</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>50-150</td>
<td>50-200</td>
<td>75-250</td>
<td>100-300</td>
<td>150-400</td>
<td>150-400</td>
<td>150-400</td>
</tr>
</tbody>
</table>

### Available sizes for hose connection

<table>
<thead>
<tr>
<th>Part. N°</th>
<th>¼&quot;</th>
<th>3/8&quot;</th>
<th>½&quot; small</th>
<th>½&quot;</th>
<th>¾&quot;</th>
<th>1&quot; small</th>
<th>1&quot;</th>
<th>1 ¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.78</td>
<td>2.6</td>
<td>2.46</td>
<td>6.4</td>
<td>8.06</td>
</tr>
<tr>
<td>Length / diameter (mm)</td>
<td>50 / 30</td>
<td>50 / 30</td>
<td>50 / 30</td>
<td>90 / 50</td>
<td>125 / 76</td>
<td>120 / 76</td>
<td>165 / 110</td>
<td>203 / 110</td>
</tr>
<tr>
<td>Number of inserts</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>&gt; 30</td>
<td>&gt; 75</td>
<td>&gt; 75</td>
<td>&gt; 100</td>
<td>&gt; 150</td>
<td>&gt; 150</td>
<td>&gt; 150</td>
<td>&gt; 150</td>
</tr>
</tbody>
</table>

* .accord. to KEG’s terms of warranty   © 2013 All rights reserved
Safety – the novelty by KEG

Do you also have problems with blowing up toilets and extreme air current in the pipe?

The solution: Safety Nozzle

- KEG special nozzle with optimized jet angles utilizing patented fluid mechanics
- prevents blowing up toilets
- reduces air current in pipe by approx. 80%
- based on the findings of the Institute of Underground Infrastructure, Oldenburg University of Applied Sciences and TU Dresden
- suitable for pipe diameters from 150 mm
- comes with a guide skid

Available sizes for hose connection

<table>
<thead>
<tr>
<th>Part N°</th>
<th>1&quot;</th>
<th>1¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010 045</td>
<td>0010 0046</td>
<td></td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>from 150</td>
<td>from 150</td>
</tr>
</tbody>
</table>

Additional equipment:
- HP swivel joint 1"
  Part N° 0080 0012
- HP swivel joint 1 ¼"
  Part N° 0080 0013

Vibration Nozzle – for recycled water

This nozzle is particularly suitable for the removal of hard mineral deposits

- intended for pipes from diameter 150 mm
- due to vibrations of the nozzle hard deposits fall off the pipe walls
- highly wear-resistant stainless steel of nozzle body
- maintenance free, replaceable nozzle inserts
- boasting two circulator turbines

We recommend: Applications under TV monitoring only!

Available sizes for hose connection

<table>
<thead>
<tr>
<th>Part N°</th>
<th>1&quot;</th>
<th>1¼&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010 0197</td>
<td>0010 0198</td>
<td></td>
</tr>
<tr>
<td>Pipe diameter (mm)</td>
<td>&gt; 150 mm</td>
<td>&gt; 150 mm</td>
</tr>
</tbody>
</table>
Ejector Nozzles for large diameter pipes

Suitable for cleaning of water-bearing pipes only!
The special arrangement of the nozzle inserts results in the “soft” cleaning effect, which makes the Ejector Nozzles suitable for cleaning older sewer networks. They use the available water in the sewer to aid the water coming from the pressurized hose thus utilizing the advantages of both cleaning methods.

▶ Especially suitable for culvert cleaning!

Ejector Nozzles

- Pipe diameter: from 250 mm
  Part N° 0080 0199

- Pipe diameter: from 400 mm
  Part N° 0080 0200

Deep-Sucker Ejector

in connection with high pressure jetters
For sludge suction at discharge heads of more than 8m to aid the vacuum pump and in combination with the high pressure pump. The suction hose couplings are screwed to a 1” thread. It is therefore possible to use different coupling systems.

- HP connection with an 1” union nut
  Part N° 0080 0210
MOHS scale consists of 10 levels of hardness of selected minerals e.g. 7 = quartz, 10 = diamond

Manual Spraying Device
made of stainless steel - with one nozzle inserts

- length / Ø in mm: 75 / 30
- weight in kg: 0.4
- applications: manhole cleaning, manual cleaning
- available sizes: ½" hose connection
- Part N° 0010 0136

Forward Jet Nozzle
made of stainless steel – with 7 nozzle inserts

- length / Ø in mm: 34 / 30
- weight in kg: 0.4
- applications: manhole cleaning with forward water jets (7x)
- available sizes: ½" hose connection
- Part N° 0010 0118

Nozzle Inserts

- ceramic: increased wear resistance compared to steel inserts (hardness 7.5 on MOHS scale*)
- titanium ceramic: extraordinary wear resistance due to a more compact structure (hardness 9 on MOHS scale*: = approx. twice as wear-resistant as 7.5)

*MOHS scale consists of 10 levels of hardness of selected minerals e.g. 7 = quartz, 10 = diamond

KEG Quality Warranty
KEG provides a 3 year warranty* on nozzles and nozzle inserts for all cleaning tools utilizing patented fluid mechanics and equipped with titanium ceramic inserts.

(*according to KEG’s Terms of Warranty)

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>Internal Diameter (mm)</th>
<th>Part N°</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>steel</td>
<td>0.6 – 3.0</td>
<td>0010 0134</td>
</tr>
<tr>
<td>M6</td>
<td>ceramic</td>
<td>0.6 – 3.0</td>
<td>0010 0172</td>
</tr>
<tr>
<td>M6</td>
<td>titanium ceramic</td>
<td>0.6 – 3.0</td>
<td>0010 0175</td>
</tr>
<tr>
<td>M8</td>
<td>steel</td>
<td>0.9 – 4.0</td>
<td>0010 0135</td>
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<tr>
<td>M8</td>
<td>ceramic</td>
<td>0.9 – 4.0</td>
<td>0010 0171</td>
</tr>
<tr>
<td>M8</td>
<td>titanium ceramic</td>
<td>0.9 – 4.0</td>
<td>0010 0173</td>
</tr>
<tr>
<td>M10x1</td>
<td>steel</td>
<td>0.6 – 4.0</td>
<td>0010 0168</td>
</tr>
<tr>
<td>M10x1</td>
<td>ceramic</td>
<td>0.6 – 4.0</td>
<td>0010 0160</td>
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<tr>
<td>SW14</td>
<td>special, hardened steel</td>
<td>1.0 – 4.0</td>
<td>0010 0130</td>
</tr>
<tr>
<td>SW14</td>
<td>ceramic</td>
<td>1.0 – 4.0</td>
<td>0010 0170</td>
</tr>
<tr>
<td>SW14</td>
<td>titanium ceramic</td>
<td>1.0 – 4.0</td>
<td>0010 0174</td>
</tr>
</tbody>
</table>

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### Nozzle Kits

#### Application

<table>
<thead>
<tr>
<th>Nozzle Kit ¼&quot; or 3/8&quot;</th>
<th>6 Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quattro nozzle with forward jet</td>
<td></td>
</tr>
<tr>
<td>Quattro nozzle with drill point</td>
<td></td>
</tr>
<tr>
<td>Rotor nozzle</td>
<td></td>
</tr>
<tr>
<td>Standard nozzle without forward jet</td>
<td></td>
</tr>
<tr>
<td>Standard nozzle with forward jet</td>
<td></td>
</tr>
<tr>
<td>Sewer flush nozzle</td>
<td></td>
</tr>
</tbody>
</table>

**Nozzle Kit ¼" or 3/8"** 5 Items

- Cleaning nozzle – p.f.m.*
- Traction nozzle w. forw. jet – p.f.m.*
- Quattro nozzle with drill point
- Rotor nozzle
- Standard nozzle with forward jet

**Nozzle Kit ½"** 5 Items

- Cleaning nozzle – p.f.m.*
- Traction nozzle w. forw. jet – p.f.m.*
- Quattro nozzle with forward jet
- Rotor nozzle
- Quattro nozzle with forward jet

**Nozzle Kit ¾"** 5 Items

- Torpedo nozzle – p.f.m.*
- Cleaning nozzle – p.f.m.*
- Traction nozzle w. forw. jet – p.f.m.*
- Rambo nozzle
- Rotor nozzle

**Nozzle Kit 1"** 6 Items

- Royal nozzle – p.f.m.*
- Torpedo nozzle – p.f.m.*
- Cleaning nozzle – p.f.m.*
- Traction nozzle w. forw. jet – p.f.m.*
- Rambo nozzle
- Rotor nozzle

**Nozzle Kit 1¼"** 6 Items

- Royal nozzle – p.f.m.*
- Torpedo nozzle – p.f.m.*
- Traction nozzle w. forw. jet – p.f.m.*
- Rambo nozzle
- Rotor nozzle
- Cleaning nozzle – p.f.m.*

---

*…nozzle with patented fluid mechanics*
HP Swivel Joints

for traction load

HP swivel joints serve to stabilize chain root cutters and floor cleaners.

- stabilize tools inside the pipe
- facilitate tool assembly

Elbow Swivel Joints

new generation for hose reels

- without losses in pressure and efficiency
- optimized in terms of fluid mechanics, hence no extra load for sealing gasket
- extremely durable

<table>
<thead>
<tr>
<th>Description</th>
<th>Available Sizes</th>
<th>Weight (kg)</th>
<th>Part N°</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP swivel joint, straight</td>
<td>½”</td>
<td>0.3</td>
<td>00800010</td>
</tr>
<tr>
<td></td>
<td>¾”</td>
<td>0.5</td>
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<td></td>
<td>1”</td>
<td>0.9</td>
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<tr>
<td></td>
<td>1 ¼”</td>
<td>1.3</td>
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<tr>
<td></td>
<td>1 ½”</td>
<td>1.7</td>
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<tr>
<td>HP elbow swivel joint</td>
<td>½”</td>
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<tr>
<td></td>
<td>¾”</td>
<td>0.7</td>
<td>00800016</td>
</tr>
<tr>
<td></td>
<td>1”</td>
<td>2.7</td>
<td>00800017</td>
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<tr>
<td></td>
<td>1¼”</td>
<td>2.7</td>
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<tr>
<td></td>
<td>1½”</td>
<td>2.8</td>
<td>00800104</td>
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<tr>
<td>HP swivel joint, reduced</td>
<td>¾” outside thread -&gt; ½” inside thread</td>
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<td>00803412</td>
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<td></td>
<td>1” o.t. -&gt; ¾” i.t.</td>
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<td>00801034</td>
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<tr>
<td></td>
<td>1¼” o.t. -&gt; 1” i.t.</td>
<td>1.5</td>
<td>00801141</td>
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</tbody>
</table>

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Guide Rollers
Guide Rollers are valuable to help reduce wear of and damage to high pressure hoses. That’s why you should use this kind of equipment.

Guide Roller - Underground

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No</th>
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<tbody>
<tr>
<td>Small for laterals and service lines</td>
<td>0080 0001</td>
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<tr>
<td>Spare roller small</td>
<td>0080 0006a</td>
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<tr>
<td>Medium LE 19/25</td>
<td>0080 0002</td>
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<tr>
<td>Spare roller medium</td>
<td>0080 0006b</td>
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<td>Large LE 25/32</td>
<td>0080 0003</td>
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<td>Spare roller large</td>
<td>0080 0006c</td>
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Guide Roller – for large manholes

Guide roller for large manholes 0080 0004
Spare roller 0080 0006

Guide Roller – Upper Edge

Guide roller upper edge 0080 0005
Spare roller 0080 0006

Guide Roller – Upper Edge for HP and suction hoses

Guide roller upper edge 0080 1005

High Pressure Hose Guide – Bottom Edge

for hose connections up to ¾” 0080 0081
for hose connections up to 1” 0080 0082
for hose connections up to 1¼” 0080 0083

Hose Protector
Hose protector made of plastics 0080 0042

Security Rope
- with snap hook to secure to the guide roller
- length approx. 10 m
- Part N° 0040 0044

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