

# High-pressure (low-flow) pump innovation

<p><b>Title</b></p>	<p>High-pressure (low-flow) pump innovation</p>
<p><b>Basic technology outline</b></p>	<p>Major innovation in pump construction  This technology is significant innovation of the construction of the two-stage high-pressure low-flow pump  Notable benefits of this innovation is the considerable reduction in overall size and weight sa well as incerased reliability</p>
<p><b>Technology deployment</b></p>	<p>High-pressure pump with low flow  The innovation is universally applicable everywhere, where the traditional high-pressure and low-flow pump is currently deployed. Additionally, the pump will be suitable for more challenging usage, where small size, small weight and high reliabiliuty are required.  Industrial deployment of the innovated pump is advised, but not limited to the automotive, electro-technical, machine engineering or food-processing sectors.  Examples of the use include:</p> <ul style="list-style-type: none"> <li>• Fluid injection</li> <li>• Lubrication and greasing</li> <li>• Cooling of machining area</li> <li>• Precision substance dozing <ul style="list-style-type: none"> <li>• Pressure cleaning</li> <li>• Reverse osmosis</li> </ul> </li> </ul>

<p><b>Advantages over currently used solutions</b></p>	<p>Simplified low-maintenance reliable  Decrease in size by 50% to currently available pumps  Simplified construction  Significant weight decrease  Significantly less sealing surfaces  Less moving parts are components  Considerable savings on material costs at production stage  Handless solid particles  Low maintenance  Increased durability</p>
<p><b>Current status of technology</b></p>	<p>Patent pending  Patent application is ready to be filed  Prototype has been constructed and tested</p>
<p><b>More information</b></p>	<p><a href="mailto:alena.kojdiakova@cvtisr.sk">alena.kojdiakova@cvtisr.sk</a></p>