

## INDOS Company introduces first compact loader pump, the **VEPER® Peristaltic Pump**

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After long period of research, development, engineering and testing, Indos Ltd. Company can finally announce a pump with unique design for universal usage.

- *Main task for research team was to found suitable way to transport (pump) concrete in heights at least three floors.  
There was three main performance requirements, starting with effect – min. 25 m<sup>3</sup>/h, low operating costs – hose life time min. 10000 m<sup>3</sup>, and construction should be as an attachment for our existing middle range Skid Steer Loader VEPER® L75.*

The working principle of VEPER® Peristaltic Pump is based at biological process called peristalsis. This process is made of contraction and relaxation.



*VEPER® Peristaltic Pump – wide flow range*

Indos Company has developed the only peristaltic pump on the market that has hydraulic drive. The main part of VEPER® Peristaltic Pump is a VEPER® Peristaltic Hose.

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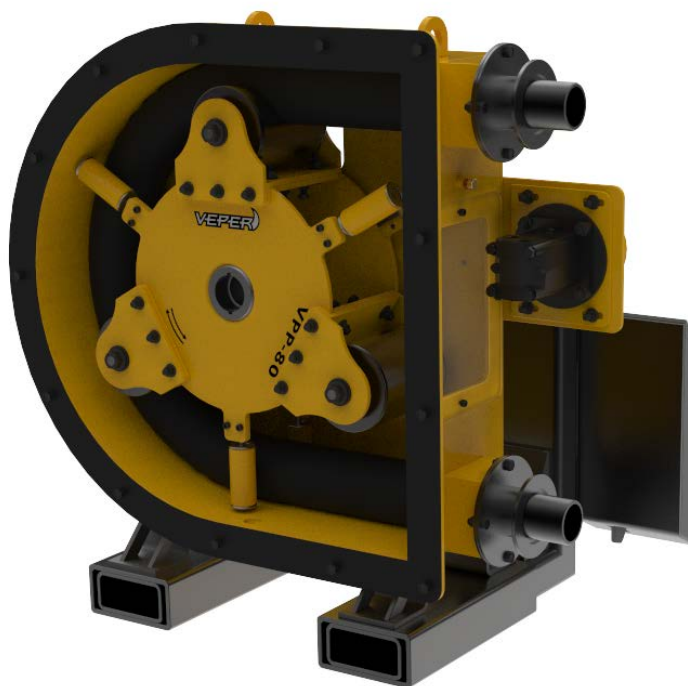
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The suction and discharge of the media is achieved with contracting and relaxing of the peristaltic hose.

In our pump design we are using three specially developed compression rollers for highest efficiency. Thanks to design of compression rollers, our pump is less pulsating compared to models of other manufactures. Our design also includes three pairs of leading rollers for keeping the peristaltic hose perfectly centered.

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*VEPER® Peristaltic Pump VPP-80 – 3D overview*

Main advantages of VEPER® Peristaltic Pump compared to competitors:

- Hydraulically driven – no gearbox;
- High torque, low speed;
- Less weight;
- Precise rotor speed control;
- Accurate dosing;
- Lower pulsation;

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- Easy maintenance – larger service intervals;
- Durable steel S355 J2 G3 construction.

VEPER® Peristaltic Hoses are made from different materials, depending on which type of media is being pumped:

- NR - Natural Rubber - Suitable for use with lightly corrosive chemicals, highly abrasive slurries and inorganic products;
- NBR - Nitrile Buna Rubber - The hose is particularly suitable for use with oily or fatty products and with organic materials;
- Food Grade – NBRF – Food industry, use in hygienic applications;
- EPDM - This hose is suitable for corrosive chemicals and inorganic products;
- Hypalon – CSM - Used to pump highly corrosive products.

The only part of the pump in contact with the fluid being pumped is the interior of the hose, making it easy to sterilize and clean the inside surfaces of the pump.



*VEPER® Peristaltic Hose*

Our Peristaltic pump provides excellent solution for pumping abrasive, corrosive or viscous media. Taking in consideration that there are no valves or seals makes this type of pump inexpensive to maintain. The only maintenance part is the peristaltic hose.

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VEPER® Peristaltic Hose has been specially developed for heavy industrial usage. Our peristaltic pumps also have a gentle pumping action, ideal for shear sensitive polymers and fragile cell cultures. Our pumps can be used in every field of industry for transport of almost every type of media:

- Mortar, cement or sand pumping
- Chemical industry
- Textile industry
- Paper and pulp
- Recycling & waste remediation
- Agriculture
- Automotive
- Water treatment
- Paints and coatings
- Ceramic industry
- Cosmetics
- Food and beverage
- Anaerobic digestion and biogas
- Mining industry

With a specially engineered rotor, our pumps are 40% more efficient, meaning less consumed energy for higher flow rates.

Compared to our competitors, the VEPER® Peristaltic Pump has the advantage of having a larger pump housing, which means the hose is longer and therefore able to perform more per revolution. This means we can make the same volume as our competitors, but with lower speed, resulting in a longer hose life.

We developed special system for adjusting roller heights, resulting in optimal compression, longer hose life, lower friction, better lubrication and less energy consumption.

We designed our Peristaltic Pumps to be able to run dry, but for constant operating duty we recommend to use VEPER® Lube® for cooling and lubrication.

VEPER® Peristaltic Pumps are designed for industrial use to satisfy professional demands, covering wide range of flow rates, discharge pressures and pumping media as shown in the table below.

<i>Model</i>	<i>Flow (l/h)</i>	<i>Max. pressure (bar)</i>	<i>Suction head (m)</i>	<i>I.D. (mm)</i>	<i>Max. granulation (mm)</i>	<i>Max. rotor speed (rpm)</i>	<i>Power (kW)</i>
<i>VPP-15</i>	420	5	6	15	2	45	1.5
<i>VPP-25</i>	1400	5	6	25	3	50	3.0
<i>VPP-30</i>	2500	10	6	30	4	50	4.0
<i>VPP-40</i>	4900	10	7	40	5	40	5.5
<i>VPP-50</i>	11200	10	7	50	6	35	7.0
<i>VPP-65</i>	23000	10	8	65	8	50	9.5
<i>VPP-80</i>	30000	10	9	80	10	50	11.7
<i>VPP-100</i>	55000	10	9	100	12	50	15.0

*VEPER® Peristaltic Pump models*

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*Indos Company is bringing to you over 60 years of Forklifts manufacturing experience, resulting in over 36000 sold units.*

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