# VALVE ORIENTATION MACHINE

***Kosan Crisplant's valve orientation machine is designed to perform a help function in connection with manual or automatic filling of cylinders with screw valves. The valve orientation machine ensures that the LPG cylinder is turned with the socket of the cylinder valve in the right direction for processing.***

- Fully automatic orientation of screw valves
- Capacity increase
- Minimum need for manpower
- Flexible for cylinders with or without shroud
- Flexible for all cylinder diameters and heights
- Easy installation in existing plants

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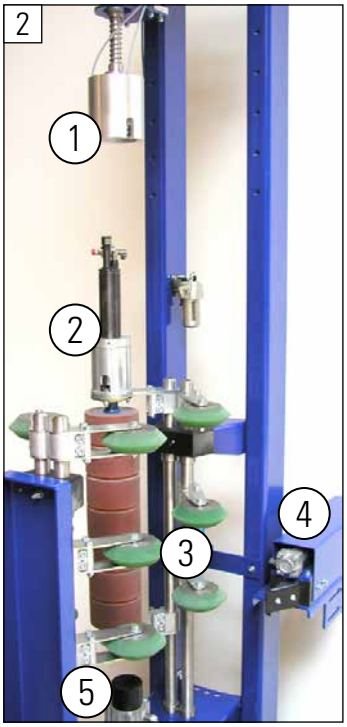
*The VOS valve orientation machine is designed to be incorporated in-line in a chain conveyor. It is used for automatic orientation of screw valves on gas cylinders, prior to various automatic processes as e.g. filling or application of caps.*

*In connection with fully automatic filling on carrousel, the machine is placed before the introduction unit in order to ensure correct orientation of the cylinder valve before introduction of the cylinder onto the filling machine.*

## Your benefits

- Fast and uniform orientation of screw valves
- Minimized number of breakdowns
- Cylinders can be processed automatically after orientation
- Capacity increase thanks to optimisation of manual processes
- Optimised ergonomics due to elimination of one-sided repeated work
- Easy to set up: all necessary software is installed in the HMI/CUC controller
- Ready for integration in fully automatic filling system
- Easy adjustment and maintenance
- Low power consumption

2




*Main components of the valve orientation machine: orientation head (1), cylinder rotation unit (2), cylinder centring unit (3), cylinder stop (4), and cylinder lifting unit (5)*

3

*The orientation head is lowered upon the valve and the cylinder is rotated. When the valve is in the right position inside the orientation head, a fibre optic beam (on the picture shown as a read beam) is cut off, and the cylinder stops rotating.*

*The rollers on both the centring unit (green) and the rotation unit (red) are made of polyurethane (PUR), an extremely durable material, which ensures a good grip of the cylinder*

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## Your possibilities

- Good for installation before all in-line process machines demanding uniform orientation of screw valves
- Possibility for communication with the following system-integrated machine
- Height adjustable model available
- Stand-alone model available

## Your safety

- Ex marking according to the ATEX Directive and applicable EN standards:
  CE Ex II 2G Ex h IIB T3 Gb
- All valve orientation machines are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All valve orientation machines are designed and validated in accordance with a certified ISO:9001 quality management system; furthermore, they are designed according to all relevant requirements set out in applicable EU Directives