



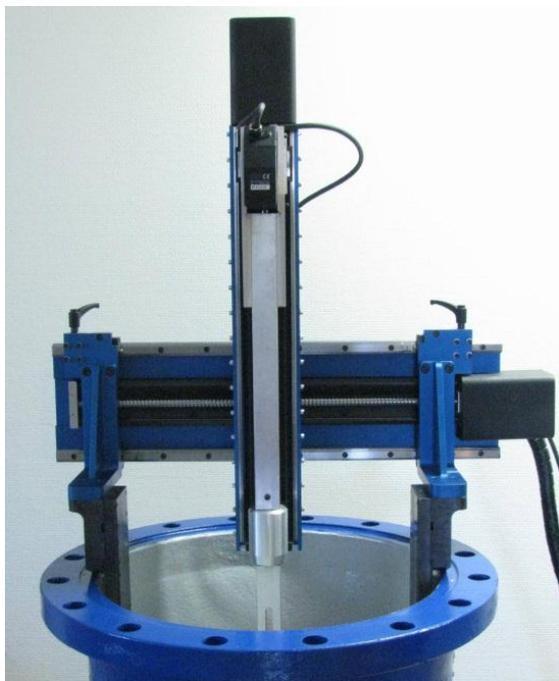
VALVE GRINDING SYSTEMS

Unique machine for measuring surfaces of industrial valves

Measuring and documenting sealing surface dimensions and positions in industrial valves.

The new technique of valve measurement has arrived

Industrial valves installed for control and shutdown can after a long time of use and poor maintenance, develop damages on the sealing surfaces. This can cause unnecessary and even dangerous leakage, this may cause that the given requirements may be compromised.



With LarsLaps patented automated measuring equipment, the LarsLap model MV, you can reduce your costs for valve maintenance and extend the life of your valves. You can in a reliable way comply with the given requirements.



LarsLaps unique automated measuring equipment can be used for many different applications and measuring the valves in situ. The standard program provides the most important measurement tasks and in the case of specially required measurements of valves, outside the standard, the MV and the software will be customized along the customer's specific needs.



VALVE GRINDING SYSTEMS



Oskarshamns nuclear power plant

With the increasing demand of a 100% output of production proper valve function is crucial. With the new and highly trimmed facilities of today the demand on the valves has increased.

By documenting the status of the valves vital parts, the prevention maintenance planning can be done well in time before any problems arise. Using the data measured by the MV of the sealing surfaces in the valves, you have the possibility to know exactly how much you can work on the seats and if any adjustments are needed or if any parts of the valve needs to be replaced. The data may also be an indication of whether the complete valve needs to be replaced by a new one.

With LarsLaps new patented measuring machine, Model MV, can defined sealing surfaces positions and angles be documented and used to get the same location of the seats in the case that a wedge or a seat would needed to be exchanged.

Maintenance of a gate valve can after a while reduce the material of the seats in such manner that a replacement of the seats and/or the wedge is necessary. In order to restore or replace a wedge it is necessary to provide good data regarding measurements of the relative position of the valve seat surfaces, relative to guides. The same requirements are necessary for the replacement of the seats.





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LarsLap MV automated measuring equipment uses a non-contact laser method

LarsLap MV is controlled by a touch screen computer. The computer records all information from the linear motors and the laser measuring points.

The touch screen shows the valves different measuring points during the process.

During this process you can continuously follow the measuring points on the display.



Via the USB outlet the complete measuring process can be recorded and documented into the specially developed software. The documentation shows all needed information of the valve's current condition and remaining useful life, as well as the possible need for replacement of the wedge or seat.

With LarsLaps unique patented method of measuring the valve sealing surface, all necessary measurement can be done, such as;

- 1) Measurement of parallelism of seats in relative to the guides
- 2) The angle between the seats relative to the guide.
- 3) Distance between seats and guides in rations to the center of the seat

