

# PSV-400 Accessories



## POLYTEC SCANNING VIBROMETERS

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## ENHANCING THE PERFORMANCE

*Measuring with the PSV-400 can be made even more efficient: powerful accessories expand the capacity of the system. The Geometry Scan Unit was designed for easy acquisition of real geometry data of the sample and the Acoustic Gate Unit for enabling brake squeal measurements. For motorized positioning of the scan head, choose either the Vertical Test Stand or the Pan/Tilt Head. Small objects become accessible by using the Close-up Unit. Finally, the 19" System Cabinet houses all the components for a convenient use.*

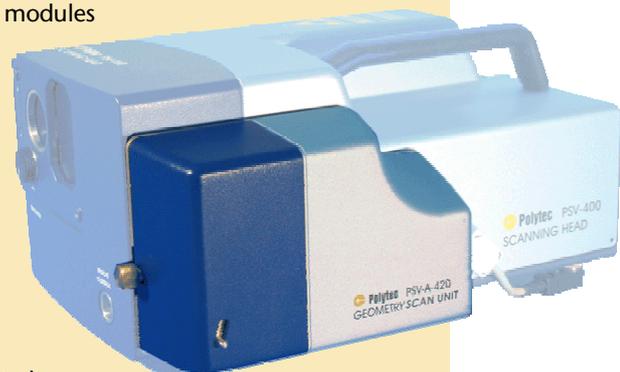
### PSV-400 Accessories

#### PSV-A-420 Geometry Scan Unit

Laser-based distance sensor for the direct acquisition of 3-D geometry data. The Geometry Scan Unit comprises an optical distance sensor and full software integration into the PSV program (version 8.2 onwards) and it extends the capabilities of the PSV-I-400 scanning head to work as a 3-D geometry acquisition system. Attached to the PSV-I-400 scanning head it measures the x, y and z component of every defined measurement point or reference point. The Geometry Scan Unit includes software modules with the following features:

- User defined object coordinate system
- Single shot distance measurement
- Scanning distance measurement
- Visualization of geometry with overlaid vibration data
- Definition of reference points for 3-D alignment (PSV-400-3D)

Using the UFF export filter (PSV-S-ExpUFF), the measured geometry data can be exported together with the vibration measurement data for further post processing.



### PSV-400 Accessories (continued)

#### PSV-A-410 Close-up Unit

For the measurement of small parts ( $\geq 1 \text{ mm} \times 1 \text{ mm}$ ) and for measurements in close distance to model PSV-I-400 scan unit. Equipped with either 99.8 % or 97 % splitter. Includes a set of close-up lenses for video (1, 2 and 4 diopters) and a Helium-Neon block filter.

Options: PSV-A-CL-80, PSV-A-CL-150 and PSV-A-CL-300 Lenses with fixed 80 mm, 150 mm, and 300 mm stand-off distance, resp.



#### PSV-A-430 Acoustic Gate Unit

Designed for e.g. enabling brake squeal measurements. This unit activates the gate input of the PSV-400 if a squeal noise exceeds a certain threshold in a defined frequency band (band pass filter). The scanning measurement starts when the noise is present and pauses, when no noise within the band is present. Very easy adjustment of the parameters. Non volatile memory for settings. Parameters: center frequency 500 Hz – 15 kHz; bandwidth 10% - 50% of center frequency; threshold 2 mV – 20 mV.



#### PSV-A-010 19" System Cabinet

For housing and transporting the Data Management System, Vibrometer Controller and Junction Box. Wooden worktop for the TFT monitor, mouse and keyboard. Front and rear covers with storage space for the keyboard and the main interconnection cable. Removable bottom plate with wheels.



#### PSV-A-T11 Pan/Tilt Head

Motorized pan/tilt head mounted on a heavy duty tripod. If ordered with PSV-400-X it replaces the VIB-A-T02 standard tripod. Control of the pan/tilt position is achieved via buttons on the PSV-E-400 junction box or via software. Pan/tilt speed is  $6^\circ/\text{sec}$ .

US Version: PSV-A-T11-US for use with heavy duty tripod model VIB-A-T03. The tripod is not included in this item.



#### PSV-A-T18 Vertical Test Stand

For translational positioning of model PSV-I-400 scan head when measuring on small objects (e.g. HDD, DVD, etc.). Consists of a motorized 3-stage telescope positioner,  $90^\circ$ -bracket for mounting PSV-I-400 scan head, drive electronics and control keypad, and base plate with metrical and imperial hole pattern for mounting on standard optical tables.

The micro-processor controlled drive electronics allows positioning at three different speeds. The available positioning range of 300 mm covers all possible optical set-ups of model PSV-A-410 Close-up Unit.



#### Further accessories:

PSV-C-LXX Interconnecting Cables and Extensions

PSV-A-HNeBF Helium Neon Block Filter for improving laser beam visibility

PSV-A-MIR PSV Mirror Set for scanning vibrometer measurements in difficult-to-access areas

**For more information please contact your local Polytec sales engineer or visit our website [www.polytec.com](http://www.polytec.com)**

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