



VOP40P

高精度接触式 多通道 测头系统
光学传输



MARPOSS

产品描述

VOP40P是一款新型马波斯接触式测头，用于高精度五轴加工中心和铣床。适用于航空航天，生物医学，模具等精密加工行业。

通过自动监测机床位置，VOP40P可实现工件定位，工件坐标系旋转，精密零部件测量等。基于VOP40P的石英压电技术，使得VOP40P在3D面测量上表现优异。

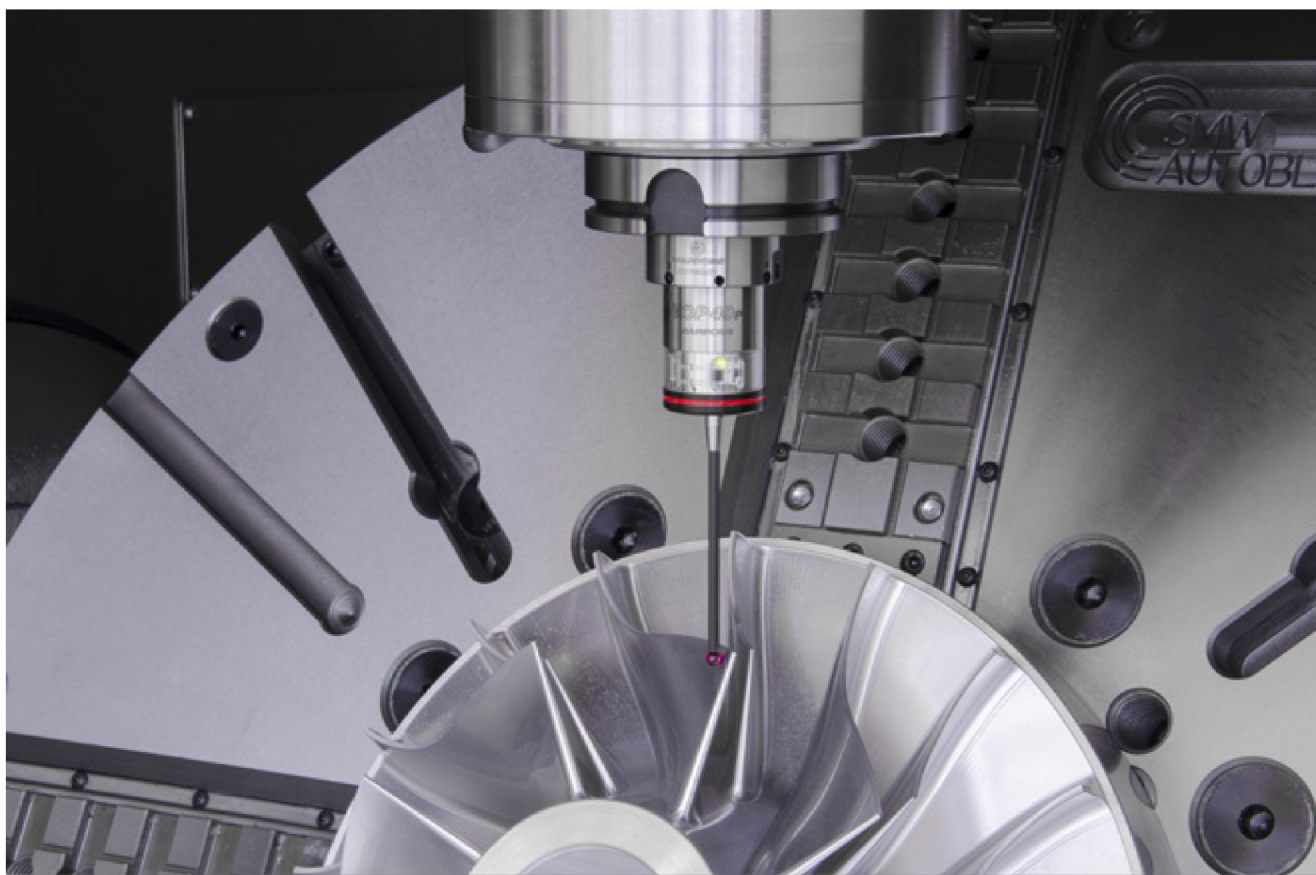
调制光学传输系统保证了免光波干扰，以及广泛的操作领域。

应用实例：

- 多通道系统：每套系统可安装4个测头。
- 多主轴应用：同一台机床可安装两套系统，2个测头同时工作。
- 此应用都可以使用一个接收器进行检测工件和刀具

优势

- 0.25um的优异的重复精度
- 直径40mm，长50mm的紧凑型尺寸
- 更优异的电池使用寿命
- 与马波斯VOS&E83系统兼容
- 耐用&可靠



高精度接触式探针VOP40P

VOP40P是专为中小型5轴加工中心和铣床而设计。紧凑的设计与出众的工作能力相结合。

VOP40P通过VOI接收器工作，当然也和E83系统通用使得升级更为简单方便。



各向重复精度 使用标准35mm探针, 触发速度600mm/分钟	0.25 μ m	
2D LOBING in X/Y*	$\pm 0.25 \mu$ m	
2D LOBING in X/Y*	$\pm 1 \mu$ m	
测量力	XY plane 0.07N	Z direct. 0.07N
越程量	XY plane 12°	Z direct. 6 mm
传输类型	多通道光学传输	
传输开启/关闭距离	6 m (HP) 3.5 m (LP)	
传输角度	360° 测头轴线 110° 垂直轴线	
传输频道	6 max.	
传输开启	自动 机床M编码	
传输关闭	可编程定时器 机床M编码	
电池类型	2x1/2 AA 锂	
电池使用 寿命	待机	160 d(HP) 330 d(LP)
	5%使用	200 d(HP) 270 d(LP)
	持续使用	800 h(HP) 1300 h(LP)
保护等级	IP67	
操作温度	0 \div 60°C	

(HP) = High Power mode

(LP) = Low Power mode

(*) = Using standard 35 mm stylus

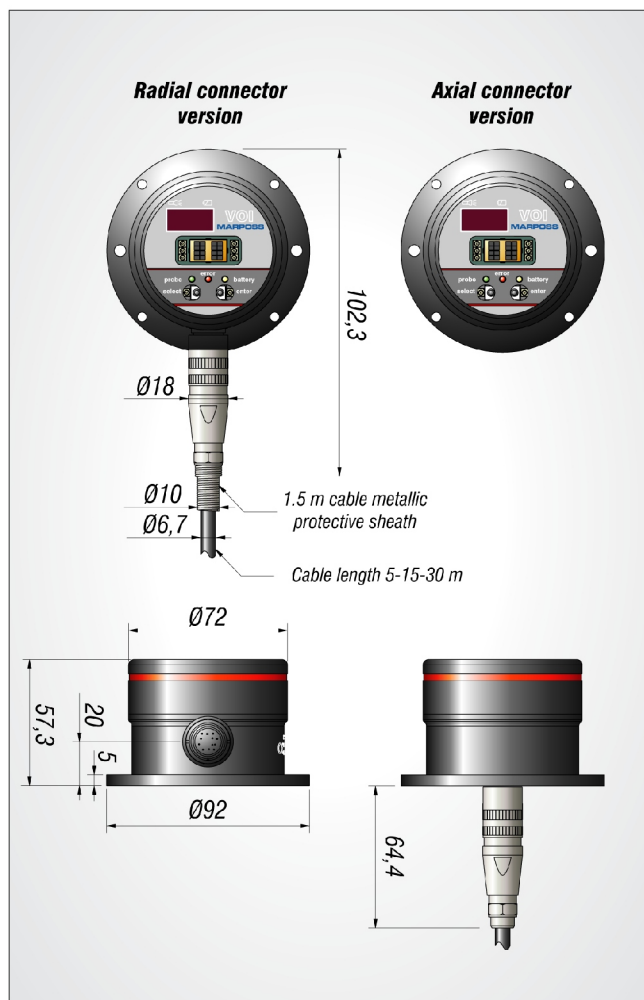
(**) = Typical performances which may vary on programming modes basis

VOI集成接口接收器

集成接口VOI是一款具有磁性基座，可以方便的进行临时安装，为客户在机床调试期间提供更方便的操作的接收器。VOI必须安装在机床工作区域内，并且在测量循环中处于测头视野的范围内。VOI本体有4个螺丝孔可由M4的螺丝进行紧固。

VOI可以利用光学脉冲或者使用一个远程控制单元对它进行编程。

由于四位数显式以及远程控制单元使得安装和故障排除程序变得异常简单。



电 源	13.5 - 30 Vdc max current 100 mA Power consumption 2 W	
输入信号	Opto-isolated 13.5 - 30 Vdc 1 mA at 15 V	Start/Stop SEL 0 and SEL 1
输出信号	Solid state relay (SSR) 4 - 30 V 40 mA	Probe 1 State/Pulse Probe 2 State/Pulse Battery discharged Error
防护等级	IP68	

System part numbers

Probe kit

6871843250	VOP40P probe
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All VOP kits are supplied complete with batteries and the necessary tools
For fingers, shear pins and other accessories, consult the catalogue D6C0060110

Receiver with integrated interface (VOI) kit

P1SIV70000	VOI kit with lateral connector
P1SIV70001	VOI kit with rear connector

The kits are supplied complete with batteries and operator and instruction manual
Only VOI kits with lateral connector include the 1.5 m cable protective sheath.

6180890104	5 m CN connector cable
6180890103	15 m CN connector cable
6180890105	30 m CN connector cable
6134232000	Receiver support

VOP40P shanks

Same shanks which are used for VOP40 line, please refer to D6C04700G0 brochure



www.marposs.com

For a full list of address locations, please consult the Marposs official website

D6C08700G0 - Edition 10/2015 - Specifications are subject to modifications
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