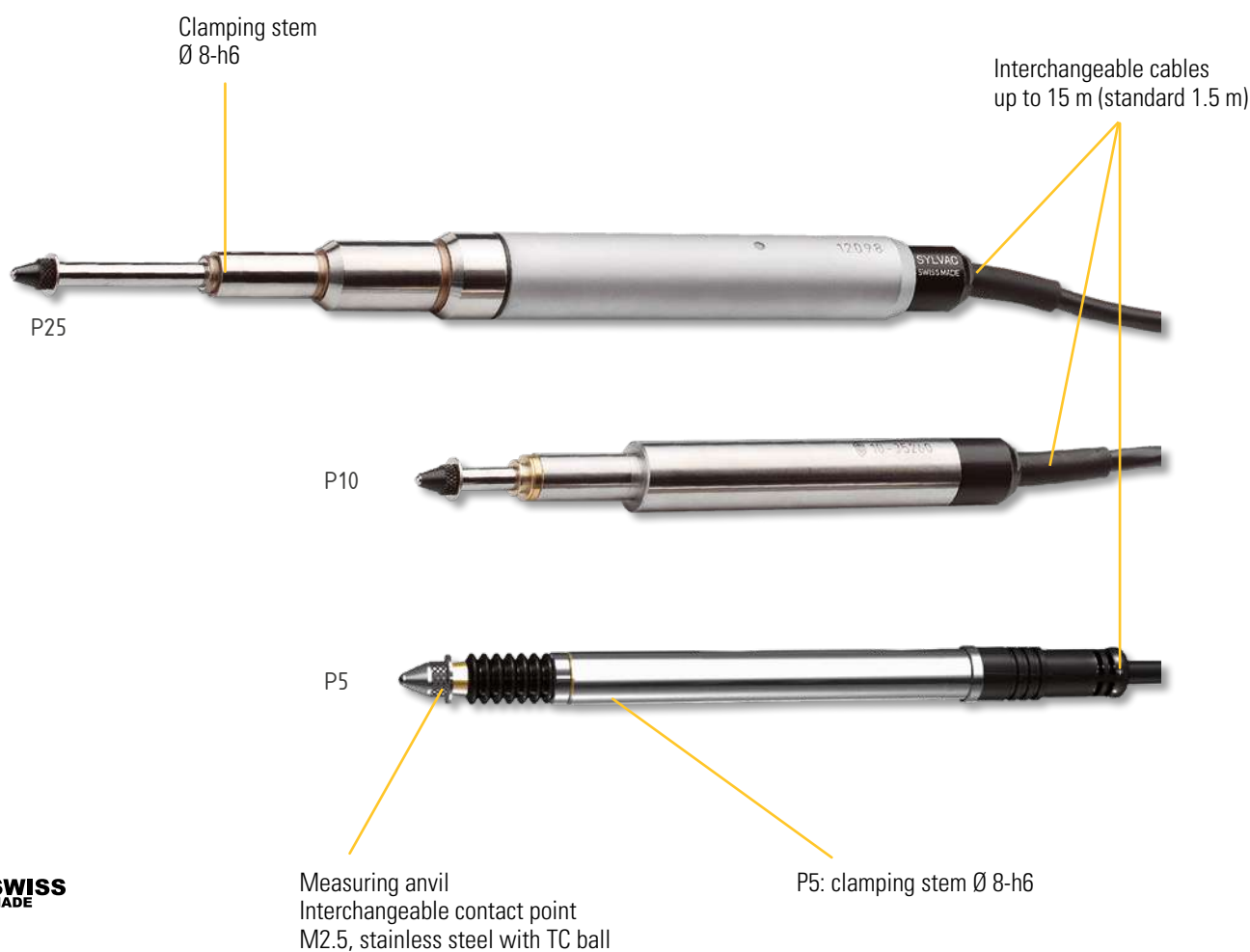


# Capacitive measuring probes

## DESCRIPTION

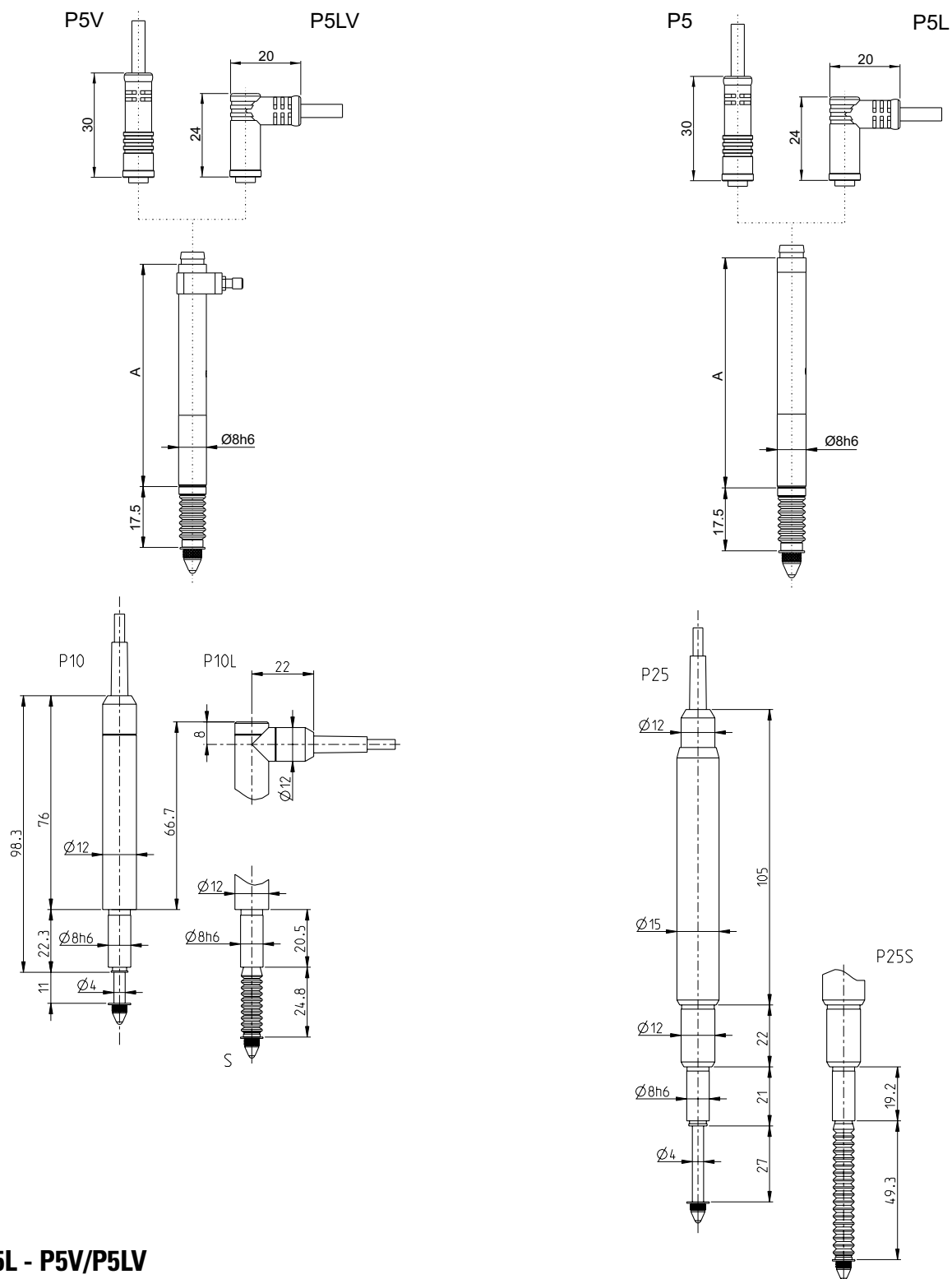
- Capacitive measuring probes
- Measuring system for high accuracy over the entire measuring range
- Sliding bearing guide guarantees a minimum of 10 million cycles when the probe is not subjected to a lateral force. Not suitable for high load applications.
- Available in 2 versions :
  - Spring-loaded thrust
  - Spring-loaded with integrated vacuum lift (V-version)
- Measuring range 5, 10 and 25 mm
- Resolution up to 0.0001 mm (0.1  $\mu\text{m}$ )
- Measuring force selectable, low, standard or high
- Fixing diameter 8 h6
- Straight or 90° cable outlet (L version)
- Interchangeable PUR cable length 1.5 m.
- IP54 protection with Viton® bellows (S version)





# Capacitive measuring probes

## DIMENSIONAL DRAWINGS



### P5/P5L - P5V/P5LV

Guiding axis	Measure A
Plain bearing	72
Ball bearing	64



# Capacitive measuring probes

## TECHNICAL SPECIFICATIONS

		P5	P10	P25
Travel	mm	5	10	25
Pre-travel	mm	0.7	0.5	0.8
Max. Error <sup>1)</sup>	µm	1	1	1.2
Repeatability	µm	0.2	0.2	0.2
Moving mass	g	3.7	4.1	9.6

<sup>1)</sup> With Master unit. See as well the specifications of the pair Measuring probe/display unit.

## MEASURING FORCE

		P5	P5B	P10	P10S	P25	P25S
Standard	N	0.50-0.90	0.50-0.90	0.60-0.80	0.70-1.25	0.60-1.00	0.65-1.4
Minimum	N	0.20-0.25*	0.25-0.50	< 0.10	---	< 0.15	---
Low	N	0.30-0.65	0.30-0.65	0.20-0.25	---	0.20-0.30	---
High	N	0.80-1.40	---	0.70-1.50	---	0.70-1.60	---

Tolerance  $\pm 20\%$ , measuring probe in vertical position, outgoing spindle.

\* without rubber boot

## LIST OF REFERENCES

P5				P10				P25			
P5	900-1001	P5BV	900-1005	P10	900-1010	P10L LF	900-1014.91	P25	900-1025	P25S	900-1027
P5BL	900-1002	P5L	900-1006	P10 LF	900-1010.91						
P5V	900-1003	P5BVL	900-1007	P10S	900-1012	P10LS	900-1016				
P5B	900-1004	P5LV	900-1008	P10L	900-1014						

B = ball bearing / V = Vacuum lifter / L = 90° cable / LF = low force / S = with rubber boot

## STANDARD DELIVERY

- Probe according to technical specifications
- Calibration certificate
- Cable 1.5 m
- Stainless steel contact point with tungsten carbide ball Ø 2 mm (905-2204)



# Capacitive measuring probes

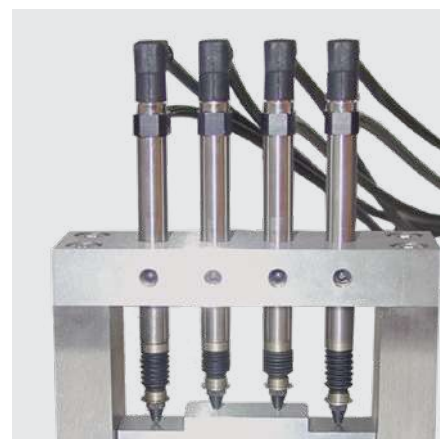
## APPLICATIONS



P5 probes connected to a D302 coupled with D300S for OD, concentricity and cylindricity measurements



P5 probes connected to a D50S unit measuring the external diameter of a shaft



Combined probes for the measurement of several heights



Capacitive probes connected to a D70S.



Capacitive probes connected to a D200S



Capacitive probes on a jig