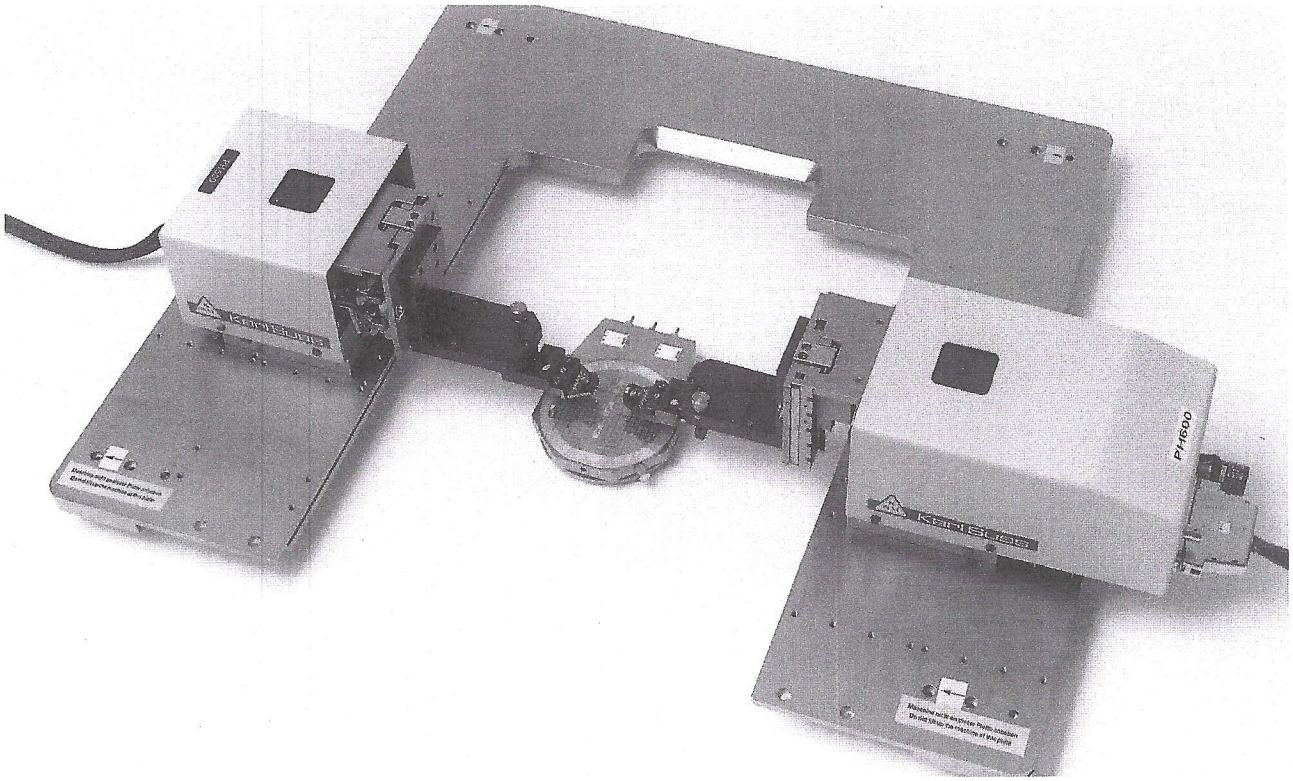
HIGH FREQUENCY PROGRAMMABLE PROBEHEADS

PH500HF AND PH600HF



ACCESSORY DESCRIPTION

SUSS PROGRAMMABLE PROBEHEADS FOR HIGH FREQUENCY (HF) APPLICATIONS

- Two versions:
  High Speed - PH500HF
  High Accuracy - PH600HF
- HF and DC probe arms
- Hands-off probe placement
- Up to 4 port characterisation
- Decreases manufacturing costs

The SUSS line of programmable probeheads offers the advantages of proven high quality, superior mechanical and ergonomic design, and complete product line compatibility.

As device operating frequencies continue to increase, it is becoming extremely important to accurately place probes in X, Y and Z. Manual probeheads rely on operators to physically place and adjust the probes for contact and overdrive.

Programmable probeheads provide the accuracy, repeatability and resolution to automate the measurement process and decrease manufacturing costs while increasing device yields. Test data is more accurate and probe/wedge consumption is reduced.

Programmable probeheads can be added to existing manual and semiautomatic probe stations and can be used to fully automate a semiautomatic probe station.

Several different types of arms are easily adapted to the faceplate which provides versatile configurations to meet a wide variety of probing applications.

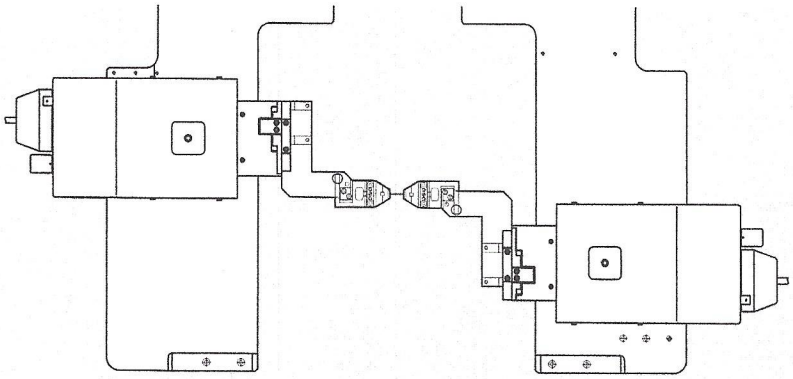
PH600HF PROBEHEAD

The PH600HF programmable probehead is the finest resolution, highest accuracy probehead available. It is massively constructed to provide stability and repeatability. The drive system uses DC servo motors, rotary encoders and a harmonic drive. The PH600HF is an excellent probehead for submicron and programmed operation when accuracy is critical.

Karl Suss

TECHNICAL DATA: PROGRAMMABLE PROBEHEAD

	PH500HF	PH600HF
Travel Range XY	25 mm	25 mm
Z	10 mm	10 mm
Encoder Resolution	<1.0 µm	<0.02 µm
Practical step size down to	5 µm	0.1 µm
Repeatability XY double sided, no compensation	±20 µm (3σ)	± 5 µm (3σ)
Accuracy XY over 10 mm x 10 mm uncompensated	±40 µm	±10 µm
matrix compensation	±20 µm	±5 µm
Maximum speed XYZ	5 mm/sec	1 mm/sec
Typical cycle time 2 x 200 µm Z, 5 mm XY	2 sec	7 sec
2 x 20 µm Z, 500 µm XY	<0.5 sec	<1 sec
Dimension without arm PH500 L x W x H	180 mm x 135 mm x 105 mm	
PH600 L x W x H	280 mm x 135 mm x 105 mm	
Fixation type (Standard)	Vacuum	
optional	mechanic bolt down, magnetic	
Probe Arms	Fixation arm for HF probes Picoprobe adapter (Model 7-34) Flexible probe arm for tips Optional SUSS ProberBench Contact Sensing	



Two PH600HF programmable probeheads with West/East High Frequency probearms and microwave probes.

PH500HF PROBEHEAD

The PH500HF uses the same overall construction and precision ball-bearing slides as the PH600HF but has a smaller footprint. The probehead provides less resolution but higher speed (5x). The PH500HF is applicable for probing features down to one micron and for programmed pad probing.

SUSS.
WHERE SOLUTIONS SET STANDARDS

KARL SUSS WORLDWIDE

GERMANY

KARL SÜSS GmbH
Schleissheimer Strasse 90
D-85748 Garching bei München · Germany
Phone (+49) [0]89/3 20 07-0, Fax -1 62

KARL SUSS Dresden GmbH
Grossenhainer Strasse 8
D-01561 Sacka bei Dresden · Germany
Phone (+49) [0]3524 0-6 77, Fax -6 78

FRANCE

KARL SUSS France S.a.r.l.
KARL SUSS Technique S.A.
Avenue des Colombières
F-74490 Saint Jeoire · France
Phone (+33)-[0]450358-392, Fax -801

GREAT BRITAIN

KARL SUSS Great Britain Ltd.
23 Ivanhoe Road
Hogwood Lane Industrial Estate ·
Finchampstead · Wokingham · Berkshire
GB-RG40 4QQ · England
Phone (+44)-1189 -732144, Fax -734395

JAPAN

KARL SUSS Japan K.K. · Yokohama

カール・ズース・ジャパン株式会社
〒226 神奈川県横浜市緑区白山1-18-2
ジャーマン・インダストリー・センター

Phone (+81)-[0]45-931-5600, Fax -5601

ASIA

KARL SUSS Asia Co., Ltd.
212/2 Soi Ladprao 10
Ladprao Road, Ladyao · Jatujak
Bangkok 10900 · Thailand
Phone (+66) - 2 938 44 -26, -27
Fax (+66) - 2 512 5569

NORTH AMERICA

KARL SUSS America Inc.
P.O. Box 157, Suss Drive
Waterbury Center · VT 05677 · USA
Phone 802- 244-5181
Fax 802- 244-5103

Representatives in over 30 countries.
Please ask for our address list.

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