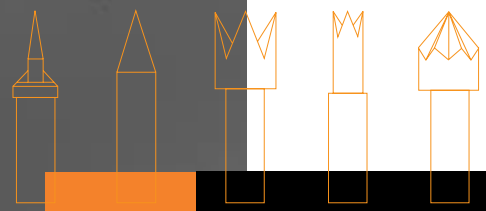
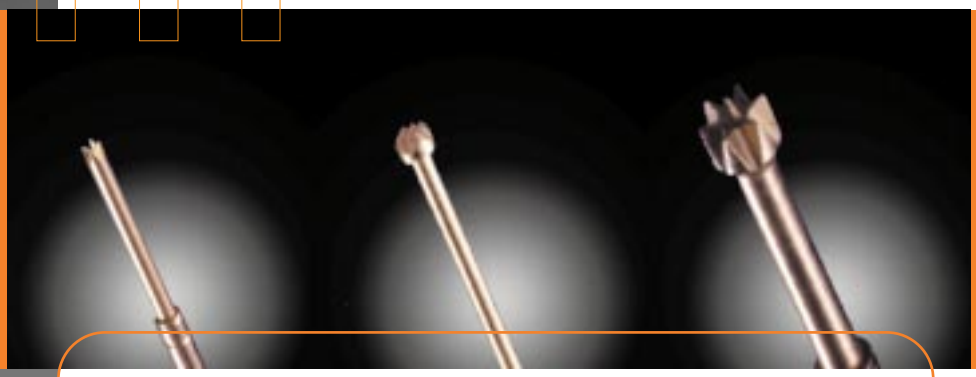
Test Probes
050·075·100





Compatible to the international standard

050

075

100

ingun®

GKS 100

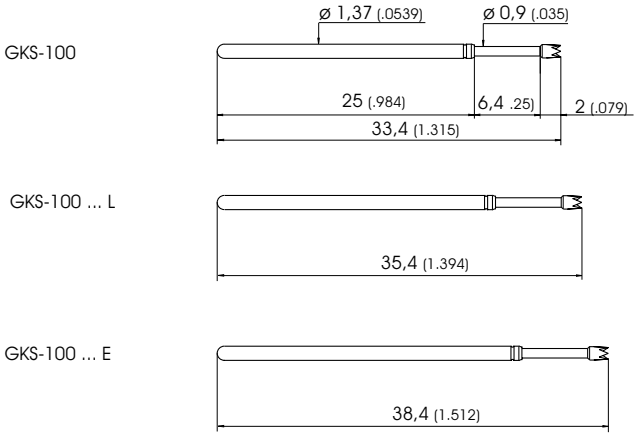
Grid:
≥ 2,54 mm
≥ 100 Mil

Extension Height: 16,0 mm (.630) / variable
Recommended Stroke: 4,3 mm (.170)

Available Tip Styles

Material	Tip Style	Plating	Special Versions Ø[mm]	Special Versions Ø[inch]
2	01 Ø 0,90 (.035)	A		
3	02 Ø 1,50 (.059)	A		
3	03 Ø 1,50 (.059)	A		
2	04 Ø 1,05 (.041)	A		
2	04 Ø 1,30 (.051)	A	1,06 1,50	.042 .059
3	05 Ø 0,90 (.035)	A	0,50 0,64 1,30	.0197 .025 .051
3	06 Ø 1,30 (.051)	A	1,50 2,00 2,50 3,00	.059 .079 .098 .118
3	07 Ø 0,90 (.035)	A		
3	07 Ø 1,50 (.059)	A	1,70	.067
2	09 Ø 0,60 (.024)	A		
3	13 Ø 0,90 (.035)	A		
2	14 Ø 0,50 (.0197)	A	0,80	.031
2	14 Ø 1,05 (.041)	A		
2/3	14 Ø 1,30 (.051)	A	1,06 1,50	.042 .059
2	17 Ø 1,70 (.067)	A		
2	24 Ø 1,30 (.051)	A	1,50	.059

Mounting and Functional Sizes



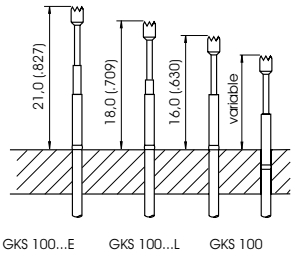
Mechanical Data

Operating stroke: 4,3 mm (.170)
Maximum stroke: 6,35 mm (.250)
Spring force at Operating stroke:

0,6N	(2.2 oz.)	1,0 N	(3.6 oz.)
1,5 N	(5.4 oz.)	2,0N	(7.2 oz.)
2,25 N	(8.1 oz.)	3,0 N	(10.8 oz.)
4,0 N	(14.4 oz.)		

Collar Height and Extension Height

To regulate the extension height, Receptacles with a press ring are used. The Receptacles can be inserted up to the press ring or with the press ring in the bore.



Electrical Data

Nominal current: 2-3 A
R_i typical: < 20 mΩ

Mounting hole size (in CEM1 and FR4)

With press ring: Ø 1,70 - 1,75mm (.067/.069)
Insertion up to press ring: Ø 1,66 - 1,68mm (.065/.066)

Materials

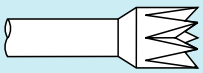
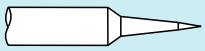
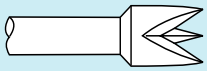
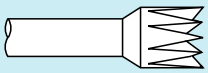
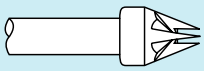
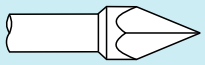
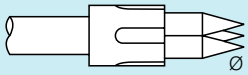
Plunger: CuBe or Steel, gold-plated
Barrel: Nickel silver, gold-plated
Spring: Steel, gold-plated
Receptacle: Nickel silver, gold-plated

***Note:**
GKS-100 with Tip Style 93:
Extension Height with KS-100 = 5mm higher. For easier handling of test probes with tip style "93", we recommend you combine these with probes from the "GKS-100...E" Series.

Tools:
Insertion tool for KS-100 ...G = SW KS-100 G

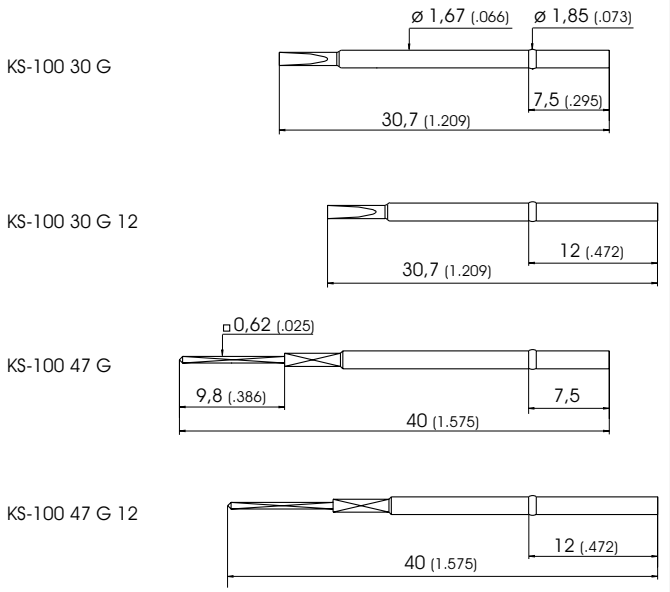
GKS 100

Available Tip Styles

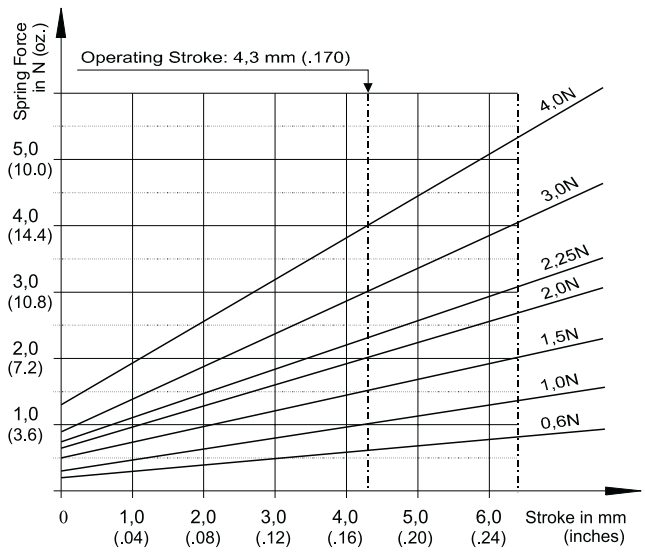
Material	Tip Style	Plating	Special Versions Ø[mm]	Special Versions Ø[inch]
2	25  Ø 1,30 (.051)	A	1,50	.059
2	31  Ø 0,90 (.035)	A		
2	33  Ø 1,06 (.042)	A		
2	77  Ø 0,90 (.035)	A		
2	88  Ø 1,50 (.059)	A		
2	89  Ø 0,50 (.0197)	A		
2	91  Ø 0,90 (.035)	A		
2	91  Ø 1,30 (.051)	A		
2	93*  *5mm longer than Standard Ø 1,60 (.063)	A		
2	97  Ø 0,90 (.035)	A		

Note:
Receptacles with wire wrap post length 13 mm or 18mm must be ordered with special designation "–13" or „-18".
Example: KS–100 47 G 12–13, KS–100 47 G–18

Receptacles with Press Ring



Spring Force



Examples for GKS-100:

	Series	Tip Material 2 = Steel 3 = CuBe	Tip Style	Tip Diameter ($^1/_{100}$ mm)	Plating A = Gold	Spring force ($^1/_{10}$N)	Collar Height (mm)	Special Designation
Test Probe with total length 33,4mm (1.315):	GKS	100	307	150	A	30	00	
Test Probe with total length 35,4mm (1.394):	GKS	100	291	090	A	20	00	L
Test Probe with total length 38,4mm (1.512):	GKS	100	306	130	A	15	00	E
Receptacles:	KS – 100 30 G		KS – 100 47 G					

Examples for GKS-075 (see next page)**:**

Test Probe with total length 33,1 mm (1.303):	GKS	075	291	064	A	10	00	
Test Probe with total length 35,1mm (1.382):	GKS	075	291	064	A	10	00	L
Receptacles:	KS – 075 30 G		KS – 075 47 G					

GKS 075

Grid:
≥ 1,91 mm
≥ 75 Mil

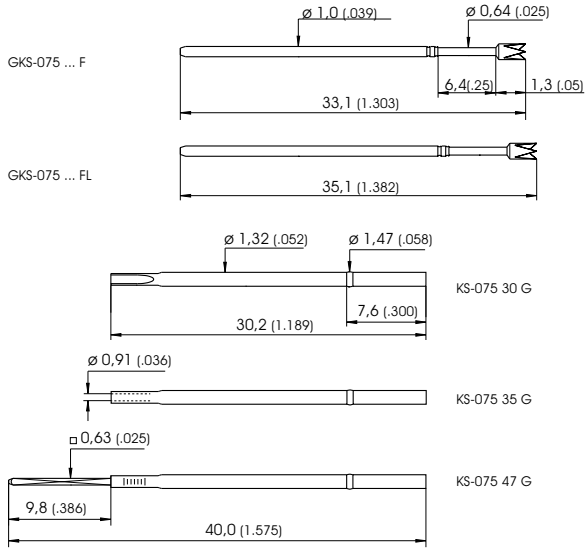
Extension Height: **16,0 mm (.630) / variable**
Recommended Stroke: **4,3 mm (.170)**

Available Tip Styles

Material	Tip Style	Plating	Special Versions Ø[mm]	Special Versions Ø[inch]
2	01 Ø 0,64 (.025)	A		
3	03 Ø 1,20 (.047)	A		
3	05 Ø 0,64 (.025)	A		
3	06 Ø 1,00 (.039)	A	1,20	.047
2	07 Ø 0,64 (.025)	A	1,00 1,20	.039 .047
2	09 Ø 0,64 (.025)	A		
2	14 Ø 0,50 (.020)	A		
2	14 Ø 0,64 (.025)	A	0,80 1,00	.031 .039
2	17 Ø 1,20 (.047)	A		
2	24 Ø 1,30 (.051)	A		
2	25 Ø 1,20 (.047)	A	1,30	.051
2	31 Ø 0,64 (.025)	A		
2	77 Ø 0,64 (.025)	A		
2	88 Ø 1,20 (.047)	A		
2	89 Ø 0,50 (.020)	A		
2	91 Ø 0,64 (.025)	A		
2	97 Ø 0,64 (.025)	A	0,80	.031

Tools:
Insertion tool for KS-075 ...G = SW KS-075 G

Mounting and Functional Sizes

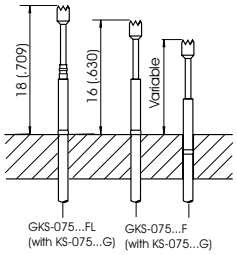


Mechanical Data

Operating stroke:	4,3 mm (.170)
Maximum stroke:	6,35 mm (.250)
Spring force at Operating stroke:	1,0 N (3.6 oz.) 1,5 N (5.4 oz.) 2,0 N (7.2 oz.) 2,8 N (10.1 oz.)

Collar Height and Extension Height

To regulate the extension height, Receptacles with a press ring are used. The Receptacles can be inserted up to the press ring or with the press ring in the bore.



Electrical Data

Nominal current:	2-3 A
R_i typical:	< 20 mΩ

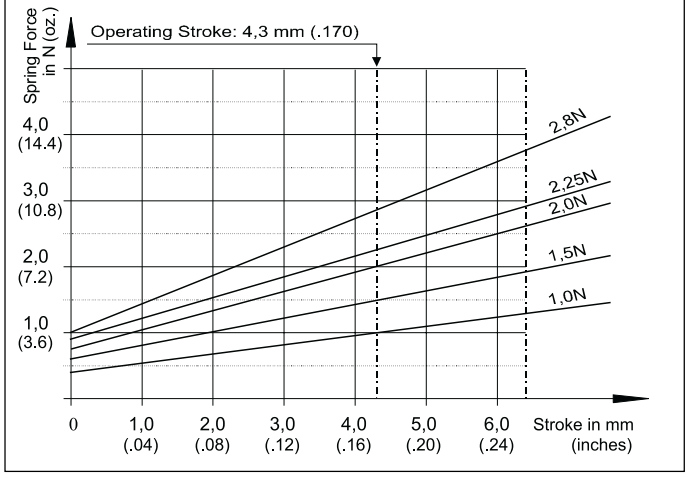
Mounting Hole Size (in CEM1 and FR4)

with press ring:	Ø 1,36 - 1,40 mm (.054/.055)
Insertion up to press ring:	Ø 1,29 - 1,30 mm (.051)

Materials

Plunger:	CuBe or Steel, gold-plated
Barrel:	Nickel silver, gold-plated
Spring:	Steel, gold-plated
Receptacle:	Nickel silver, gold-plated

Spring Force



GKS 050

Grid:
≥ 1,27 mm
≥ 50 Mil

Extension Height: 16,0 mm (.630) / variable
Recommended Stroke: 4,3 mm (.170)

Available Tip Styles

Material	Tip Style	Plating	Special Versions Ø[mm]	Special Versions Ø[inch]
3	05 Ø 0.50 (.020)	A		
3	06 Ø 0.90 (.035)	A		
3	07 Ø 0.50 (.020)	A	0,90	.035
2	14 Ø 0.50 (.020)	A		
2	31 Ø 0.50 (.020)	A		
2	91 Ø 0.50 (.020)	A		
2	97 Ø 0.50 (.020)	A		

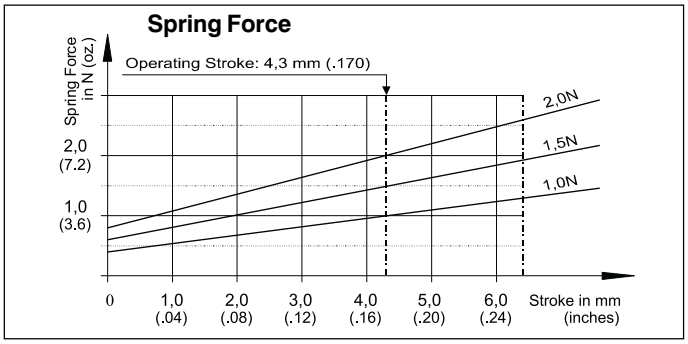
Special design GKS-050...L

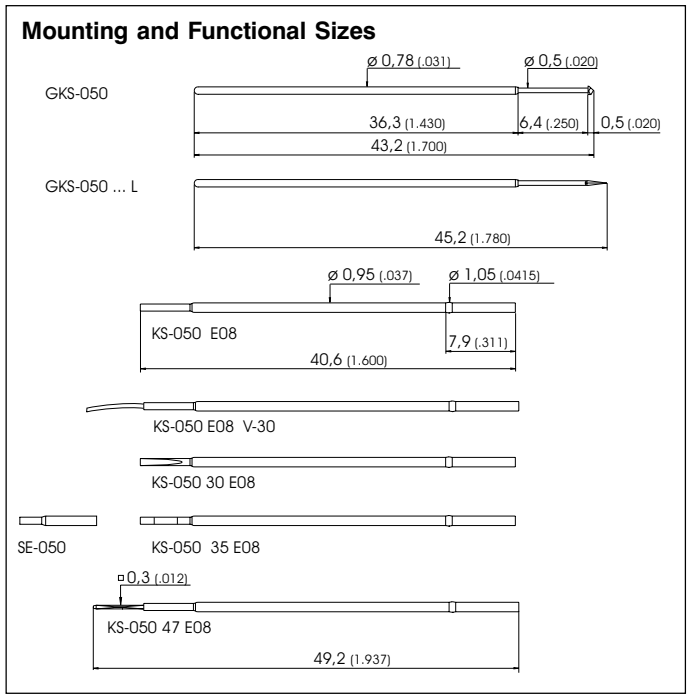
2	91 Ø 0,50 (.020)	A		

Total length 45,2 mm (1.780), Special Designation "L"

Plug:
The plugs SE-050 and SE-050 V-30 should be used with Receptacle KS-050 35 E08.

SE-050 V-30:
The plug is ready wired with AWG 30 green wire. The connection is soldered. An insulation prevents short circuits.



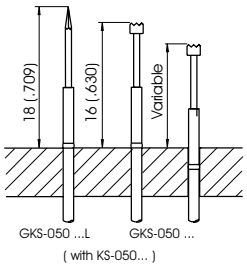


Mechanical Data

Operating stroke:	4,3 mm (.170)
Maximum stroke:	6,35 mm (.250)
Spring force at Operating stroke:	1,5 N (5.4 oz.)
	1,0 N (3.6 oz.)
	2,0 N (7.2 oz.)

Collar Height and Extension Height

To regulate the Extension Height, Receptacles with a press ring are used. The Receptacles can be inserted up to the press ring or with thepress ring in the bore.



Electrical Data

Nominal current:	2-3 A
R_i typical:	< 20 mΩ

Mounting Hole Size

With press ring or insertion up to the press ring in the bore:

in CEM 1:	Ø 0,96-0,98 mm (.038/.039)
in FR 4:	Ø 0,97-0,99 mm (.038/.039)

Materials

Plunger:	CuBe or Steel, gold-plated
Barrel:	CuBe hardened, gold-plated
Spring:	Steel, gold-plated
Receptacle:	CuBe, gold-plated

Tools:
Insertion tool for KS-050 = SW KS-050 G

Example:

Series	Tip Material 2 = Steel 3 = CuBe	Tip Style	Tip Diameter ($^1/_{100}$ mm)	Plating A = Gold	Spring force ($^1/_{10}$N)	Collar Height (mm)	Special Designation
GKS	050	291	050	A	10	00	
GKS	050	291	050	A	15	00	L

Test Probe with Total length 43,2mm (1.700): GKS 050 291 050 A 10 00

Test Probe with Total length 45,2mm (1.780): GKS 050 291 050 A 15 00 L

Plugs: SE-050 / SE-050 V-30

Receptacles: KS-050 E08 / KS-050 30 E08 / KS-050 35 E08

INGUN

„Quality through Precision - worldwide“

www.
http://ingun.com

Europe

Austria
Benelux
Croatia/Slowenia
Czech Republic
Denmark
Finland
France
Great Britain
Italy
Norway
Portugal
Spain
Sweden
Switzerland
Turkey

Overseas

Australia
Brazil
China
Hong Kong
Indonesia
Japan
Korea
Malaysia
Philippines
Singapore
South Africa
Taiwan
Thailand
USA

Our Representative:

INGUN
Prüfmittelbau GmbH
Max-Stromeyer-Straße 162
78467 Konstanz
Germany
Tel.: + 49 (0) 7531 / 8105-0
Fax: + 49 (0) 7531 / 8105-65
e-mail: info@ingun.com
www.ingun.com