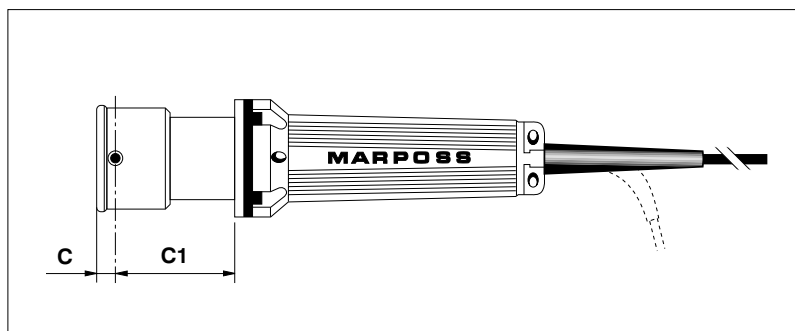




LVDT BORE GAUGE

- Electronic manual bore gauge with full-bridge (LVDT) transducer for checking inside diameter of blind and thru bores in the range from 3 to 300 mm (.12" to 11.81"), using interchangeable standard components.
- Within its range of use each plug is completely retoolable by changing the nosepiece and the contacts. For zero setting only one master is needed due to the extensive range of linearity of the transducer.
- Accurate, rugged and reliable, needs no maintenance and has practically no operating costs. Thanks to its outstanding qualities (waterproofness, resistance to impact or falls, cable tear resistance), it can be used in the most difficult working conditions without any effect to its technical characteristics.
- It can be used both directly on the workpiece and as a simple fixture using the optional support.
- The measurement value can be displayed on the TESTAR E18, E4, E4N and, through the Gage Box™ data acquisition system, on the E9066s™ Industrial PC.



RETOOLING RANGE		C1		C	
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
3 - 4	.12" - .16"	7	.28"	2.5 / 6	.10" / .24"
4 - 5	.16" - .20"	10	.39"	2.5 / 6	.10" / .24"
5 - 6	.20" - .24"	15	.59"	2.5 / 6	.10" / .24"
6 - 7	.24" - .28"	20	.79"	2.5 / 6	.10" / .24"
7 - 8	.28" - .31"	30	1.18"	2.5 / 6	.10" / .24"
8 - 9	.31" - .35"	40	1.57"	2.5 / 6	.10" / .24"
9 - 15	.35" - .59"	40	1.57"	2.5	.10"
		50	1.97"	4 / 6	.16" / .24"
15 - 36	.59" - 1.42"	53.5	2.11"	2.5	.10"
		50	1.97"	4 / 6	.16" / .24"
36 - 120	1.42" - 4.72"	53.5	2.11"	2.5	.10"
		50	1.97"	6	.24"
120 - 300	4.72" - 11.81"	-	-	2.5 / 6	.10" / .24"

N.B. The above measuring range cannot be covered with only one nosepiece, but a dedicated nosepiece is necessary for each diameter to be measured (SEE HOW TO ORDER A FINISHED PLUG).



TECHNICAL SPECIFICATIONS

RETOOLING RANGE (mm)	3 - 9	9 - 15	15 - 36	36 - 120	120 - 300
REPEATABILITY	≤ 1 μm				
THERMAL DRIFT	≤ 0.3 μm/°C				
MEASURING FORCE	0.75 N ± 35%	0.45 N ± 35%	0.5 N ± 35%	0.9 N ± 25%	0.7 N ± 30%
APPROX. WEIGHT	0.4 kg	0.35 to 0.7 kg			2 - 5 kg
CABLE LENGTH	1.8 or 5 m				
CONNECTOR TYPE	Lumberg S3 (DIN 41524) or SV50/6 (DIN 45322)				

HOW TO ORDER A FINISHED PLUG

Type of contact:

C = Carbide
D = Diamond

Type of connector:

S3 = Lumberg S3 - 3 pin - used with E4 and E18
SV50 = Lumberg SV50/6 - 5 pin - used with E4N and Gage Box

Distance (C) from the edge of the nosepiece to the contacts (mm):
C = 6 / 4 / 2.5

Measurement unit:

M = Millimeter
I = Inch

M1					Ø max.	Ø min.
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EXAMPLE: Need to order an M1 with C=2.5 mm, carbide contacts, E4N connector, max. ϕ 38.735 mm (1.525 inch), min. ϕ 38.710 mm (1.524 inch).

M1	2.5	C	SV50	M	38.735	38.710
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COMPONENTS AND ACCESSORIES

RETOOLING RANGE 3÷ 9 mm (.12"÷ .35") C=2.5/6 mm (.10"/.24")	RETOOLING RANGE 9÷ 15 mm (.35"÷ .59") C=4/6 mm (.16"/.24")	RETOOLING RANGE 9÷ 25 mm (.35"÷ 1") C=2.5 mm (.10")	RETOOLING RANGE 25÷ 36 mm (1"÷ 1.42") C=2.5 mm (.10")	RETOOLING RANGE 15÷ 36 mm (.59"÷ 1.42") C=4/6 mm (.16"/.24") 36÷ 120 mm (1.42"÷ 4.72") C=6 mm (.24")	RETOOLING RANGE 36÷ 120 mm (1.42"÷ 4.72") C=2.5 mm (.10")
A = PLUG BODY	B = SEMIFINISHED NOSEPIECE	D = FINGERS	E = CONTACTS	F = CONTACT EXTENSIONS	G = CAP

RETOOLING RANGE		C		C1		(A)			
						PLUG BODY		CONNECTOR TYPE	
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	ORDER CODE	CABLE LENGTH (m) (inch)		
3 - 4	.12" - .16"	2.5 / 6	.10" / .24"	7	.28"	3708612300	1.8 70.86"	LUMBERG S3	
4 - 5	.16" - .20"			10	.39"	3708612310	1.8 70.86"	LUMBERG SV50/6	
5 - 6	.20" - .24"			15	.59"		1.8 70.86"	LUMBERG SV50/6	
6 - 7	.24" - .28"			20	.79"	3708612301	5 196.85"	LUMBERG S3	
7 - 8	.28" - .31"			30	1.18"	3708612311	5 196.85"	LUMBERG SV50/6	
8 - 9	.31" - .35"			40	1.57"		5 196.85"	LUMBERG SV50/6	
9 - 15	.35" - .59"	4 / 6	.16" / .24"	50	1.97"	3708612200 (•)	1.8 70.86"	LUMBERG S3	
						3708612210 (••)	1.8 70.86"	LUMBERG SV50/6	
						3708612202	5 196.85"	LUMBERG S3	
						3708612212	5 196.85"	LUMBERG SV50/6	
		2.5	.10"	40	1.57"	3708612300	1.8 70.86"	LUMBERG S3	
						3708612310	1.8 70.86"	LUMBERG SV50/6	
						3708612301	5 196.85"	LUMBERG S3	
						3708612311	5 196.85"	LUMBERG SV50/6	
						3708612100	1.8 70.86"	LUMBERG S3	
						3708612110	1.8 70.86"	LUMBERG SV50/6	
						3708612102	5 196.85"	LUMBERG S3	
						3708612112	5 196.85"	LUMBERG SV50/6	
15 - 36	.59" - 1.42"	2.5 (*)	.10" (*)	53.5	2.11"	3708612100	1.8 70.86"	LUMBERG S3	
						3708612110	1.8 70.86"	LUMBERG SV50/6	
						3708612102	5 196.85"	LUMBERG S3	
						3708612112	5 196.85"	LUMBERG SV50/6	
		2.5 (**)	.10" (**)	40	1.57"	3708612300	1.8 70.86"	LUMBERG S3	
						3708612310	1.8 70.86"	LUMBERG SV50/6	
						3708612301	5 196.85"	LUMBERG S3	
						3708612311	5 196.85"	LUMBERG SV50/6	
36 - 120	1.42" - 4.72"	6	.24"	50	1.97"	3708612000	1.8 70.86"	LUMBERG S3	
						3708612010	1.8 70.86"	LUMBERG SV50/6	
						3708612002	5 196.85"	LUMBERG S3	
						3708612012	5 196.85"	LUMBERG SV50/6	
		2.5 (***)	.10" (***)	53.5	2.11"	3708612100	1.8 70.86"	LUMBERG S3	
						3708612110	1.8 70.86"	LUMBERG SV50/6	
						3708612102	5 196.85"	LUMBERG S3	
						3708612112	5 196.85"	LUMBERG SV50/6	
		2.5 (****)	.10" (****)	53.5	2.11"	3708612100	1.8 70.86"	LUMBERG S3	
						3708612110	1.8 70.86"	LUMBERG SV50/6	
						3708612102	5 196.85"	LUMBERG S3	
						3708612112	5 196.85"	LUMBERG SV50/6	
120 - 180	4.72" - 7.09"	6	.24"	30	1.18"	3708612400	1.8 70.86"	LUMBERG S3	
						3708612410	1.8 70.86"	LUMBERG SV50/6	
		2.5	.10"	30	1.18"	3708612402	5 196.85"	LUMBERG S3	
						3708612415	5 196.85"	LUMBERG SV50/6	
180 - 300	7.09" - 11.81"	6	.24"	30	1.18"	3708612450	1.8 70.86"	LUMBERG S3	
						3708612460	1.8 70.86"	LUMBERG SV50/6	
		2.5	.10"	30	1.18"	3708612465	5 196.85"	LUMBERG SV50/6	

(*) Only for range 25 to 36 mm (1" to 1.42")

(**) Only for range 15 to 25 mm (.59" to 1")

(***) Only for range 42 to 120 mm (1.65" to 4.72")

(****) Only for range 36 to 42 mm (1.42" to 1.65")

(•) 3708612201 for USA and Japan

(••) 3708612211 for USA and Japan

RETOOLING RANGE		C		(B) SEMIFINISHED NOSEPIECES	(D) FINGERS		(E) CONTACTS		(F) CONTACT EXTENSIONS	(G) CAPS
				ORDER CODE	ORDER CODE		ORDER CODE		ORDER CODE	ORDER CODE
(mm)	(inch)	(mm)	(inch)		CARBIDE	DIAMOND	CARBIDE	DIAMOND		
3 - 4	.12" - .16"	2.5 / 6	.10" / .24"	1408612319	3290861200	3290861211				
4 - 5	.16" - .20"			1408612321	3290861201	3290861206				
5 - 6	.20" - .24"			1408612322	3290861202	3290861207				
6 - 7	.24" - .28"			1408612323	3290861203	3290861208				
7 - 8	.28" - .31"			1408612324	3290861204	3290861209				
8 - 9	.31" - .35"			1408612325	3290861205	3290861210				
9 - 11	.35" - .43"	4 / 6	.16" / .24"	1408612051			1408612020	1408612035		
		2.5	.10"	1408612300	3190861201		1408612020	1408612035		
11 - 13	.43" - .51"	4 / 6	.16" / .24"	1408612052			1408612020	1408612035		
		2.5	.10"	1408612331	3190861201		1408612020	1408612035		
13 - 15	.51" - .59"	4 / 6	.16" / .24"	1408612053			1408612020	1408612035		
		2.5	.10"	1408612332	3190861202		1408612020	1408612035		
15 - 18	.59" - .71"	4 / 6	.16" / .24"	1408612054			1408612025	1408612040		
		2.5	.10"	1408612333	3190861202		1408612020	1408612035		
18 - 24	.71" - .94"	4 / 6	.16" / .24"	1408612055			1408612025	1408612040		
18 - 25	.71" - 1"	2.5	.10"	1408612334	3190861203		1408612020	1408612035		
24 - 30	.94" - 1.18"	4	.16"	1408612056			1408612025	1408612040		
		6	.24"	1408612056			1408612025	1408612040		1008612070
25 - 30	1" - 1.18"	2.5	.10"	1408612056			1408612020	1408612035	1408612018	
		4	.16"	1408612057			1408612025	1408612040		
30 - 36	1.18" - 1.42"	6	.24"	1408612057			1408612025	1408612040		1008612071
		2.5	.10"	1408612057			1408612020	1408612035	1408612018	
36 - 42	1.42" - 1.65"	6	.24"	1408612058			1408612030	1408612045		1008612072
		2.5	.10"	1408612058			1408612020	1408612035	1408612018	1008612080
42 - 48	1.65" - 1.89"	6	.24"	1408612059			1408612030	1408612045		1008612073
		2.5	.10"	1408612059			1408612020	1408612035	1408612018	1008612081
48 - 54	1.89" - 2.13"	6	.24"	1408612060			1408612030	1408612045		1008612074
		2.5	.10"	1408612060			1408612020	1408612035	1408612018	1008612082
54 - 59	2.13" - 2.32"	6	.24"	1408612061			1408612030	1408612045		1008612075
		2.5	.10"	1408612061			1408612020	1408612035	1408612018	1008612083
59 - 64	2.32" - 2.52"	6	.24"	1408612062			1408612030	1408612045		1008612076
		2.5	.10"	1408612062			1408612020	1408612035	1408612018	1008612084
64 - 68	2.52" - 2.68"	6	.24"	1408612063			1408612030	1408612045		1008612077
		2.5	.10"	1408612063			1408612020	1408612035	1408612018	1008612085
68 - 72	2.68" - 2.83"	6	.24"	1408612064			1408612030	1408612045		1008612078
		2.5	.10"	1408612064			1408612020	1408612035	1408612018	1008612086
72 - 76	2.83" - 2.99"	6	.24"				1408612030	1408612045		1008612078
		2.5	.10"				1408612020	1408612035	1408612018	1008612086
76 - 120	2.99" - 4.72"	6	.24"				1408612030	1408612045		1008612078
		2.5	.10"				1408612020	1408612035	1408612018	1008612078
120 - 300	4.72" - 11.81"	2.5 / 6	.10" / .24"				ON REQUEST	ON REQUEST	ON REQUEST	ON REQUEST

NOTE: Quantity for order code = 1pcs; Not available where not indicated.

DESCRIPTION	ORDER CODE
Hex Wrench	4413675305
Contact Wrench 2.5 mm	1300538000
Contact Wrench 4.0 mm	1300540000
Contact Extension Wrench	1300563000
Interface Cable Lumberg S3 to SV50/6	6738536000
Interface Cable Lumberg SV50/6 to S3	6735832000
Extension Cable with Lumberg SV50/6 (2 m)	6735932015
Extension Cable with Lumberg SV50/6 (5 m)	6735932016
Extension Cable with Lumberg SV50/6 (10 m)	6735932017
User Manual	D0010000X1 (*)
Stand	1300610000



(*) X= I (Italian), U (English), D (German), E (Spanish), F (French), J (Japanese), P (Portuguese).