

MEASURING INSTRUMENTS
STRUMENTI DI MISURA


MADE IN ITALY

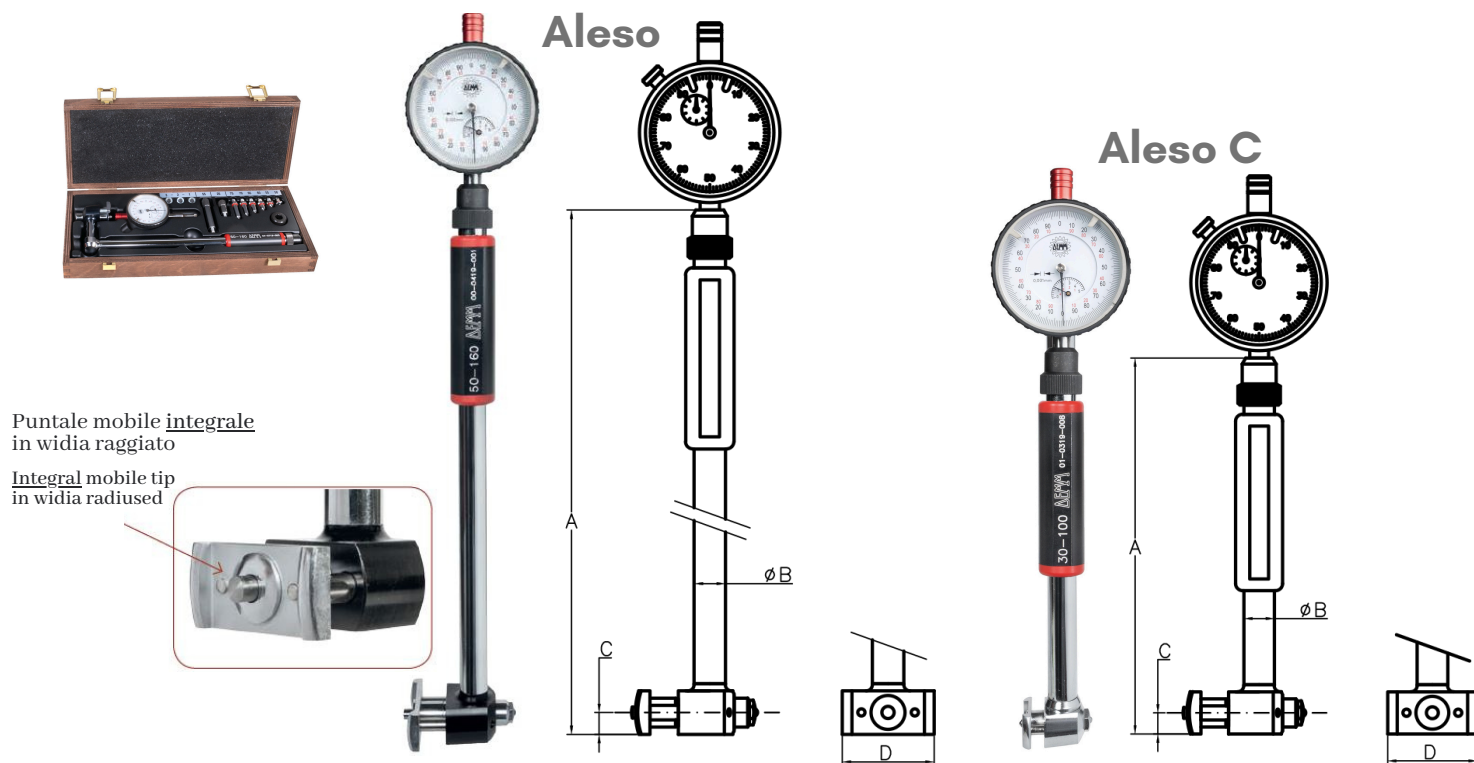


Alesametri
2025

BORE GAUGES ALESAMETRI

- Mobile tip in MD (WIDIA) integrale and radiused
- Interchangeable fixed tips with sphere MD (Widia)
- Handle with insulation chamber
- Ø8 mm dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60

- Puntale mobile MD (WIDIA) integrale e raggato
- Puntali fissi intercambiabili con sfera MD (Widia)
- Impugnatura con camera di isolamento
- Attacco per comparatore Ø8 mm
- Di serie comparatore 0,01 Ø60



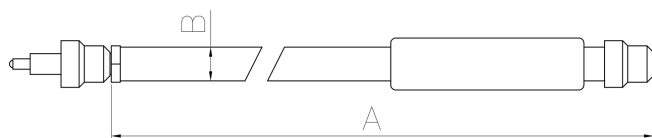
Article	Range mm	Hole Depth (mm)	Number of fixed tips	Number of washers	Extensions quantity (length) (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Mobile tip movement (mm)	Accuracy μm^*	Repeatability μm	CODE	Kg
ALESO 15-35	15+35	125	7	2	-	200	8	4	13	1,6	± 1	1	D00005	0,080
ALESO 30-100	30+100	250	5	3	2(25)	275	13	7	25	2,3	± 1	1	D00010	0,190
ALESO 50-160	50+160	250	6	3	1(25) - 1(55)	280	13	9	38	3,3	± 1	1	D00015	0,220
ALESO 50-210	50+210	380	6	3	1(25) - 2(55)	397	13	9	42	3,3	± 1	1	D00020	0,270
ALESO 100-300	100+300	350	6	2	1(50) - 1(100)	375	15	10	66	3,5	± 1	1	D00025	0,460
ALESO 150-450	150+450	350	6	2	1(50) - 2(100)	375	15	10	88	3,5	± 1	1	D00028	0,510
ALESO 100-500	100+500	650	6	2	1(50) - 3(100)	715	15	10	66	3,5	± 1	1	D00030	0,730
ALESO 160-650	160+650	650	6	2	1(50) - 4(100)	725	15	10	114	4	± 1	1	D00032	1,080
ALESO 190-1000	190+1000	650	6	2	1(50)-3(100)-2(200)	725	15	10	125	4	± 1	1	D00035	1,100
ALESO 250-1000	250+1000	650	6	2	1(50)-3(100)-2(200)	725	15	10	145	4	± 1	1	D00041	1,150

Article	Range mm	Hole depth (mm)	Number of fixed tips	Number of washers	Extensions quantity (length)	A (mm)	B (mm)	C (mm)	D (mm)	Mobile tip movement (mm)	Accuracy μm^*	Repeatability μm	CODE	Kg
ALESO C 15-35	15+35	35	7	2	-	94	8	4	13	1,6	± 1	1	D00105	0,050
ALESO C 30-100	30+100	130	5	3	2(25)	155	13	7	25	2,3	± 1	1	D00110	0,150
ALESO C 50-160	50+160	130	6	3	1(25) - 1(55)	160	13	9	38	3,3	± 1	1	D00115	0,180
ALESO C 100-300	100+300	220	6	2	1(50) - 1(100)	245	15	10	66	3,5	± 1	1	D00125	0,390
ALESO C 100-500	100+500	350	6	2	1(50) - 3(100)	375	15	10	66	3,5	± 1	1	D00130	0,460
ALESO C 190-1000	190+1000	440	6	2	1(50)-3(100)-2(200)	470	15	10	125	4	± 1	1	D00135	0,910

*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial gauge)

DEPTH EXTENSION BAR PROLUNGHE ASTA DI PROFONDITA'



per/for ALESO 30-100 / 50-160 / 50-210

Article	A (mm)	B (mm)	CODE	Kg
PA 265	260	13	D20101	0,180
PA 385	380	13	D20102	0,200
PA 500	562	13	D20103	0,300
PA 750	765	13	D20104	0,410
PA 1000	1030	13	D20105	0,530



per/for ALESO 100-300 / 150-450 / 100-500 e oltre

Article	A (mm)	B (mm)	CODE	Kg
PAB 360	355	15	D20111	0,290
PAB 500	565	15	D20112	0,470
PAB 750	780	15	D20113	0,590
PAB 1000	1040	15	D20114	0,770

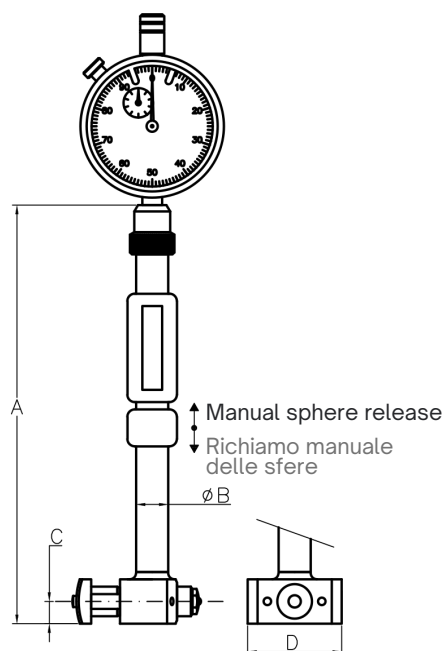
BORE GAUGES ALESAMETRI

- Mobile tip in MD (WIDIA) integrale and radiused
- Interchangeable fixed tips with sphere MD (Widia)
- Ø8 mm dial guage clamping shank
- Probe recall (also touchpad recall on model Aleso CAS)
- Handle with insulation chamber
- Supplied with dial guage 0,01 Ø60
- Aluminium protection for the dial gauge (PROTI) on request

- Puntale mobile MD (WIDIA) integrale raggato
- Puntali fissi intercambiabili con sfera MD (Widia)
- Attacco per comparatore Ø8 mm
- Richiamo tastatore (anche del palpatoio nella versione Aleso CAS)
- Impugnatura con camera di isolamento
- Di serie comparatore 0,01 Ø60
- Protezione in alluminio per il comparatore (PROTI) su richiesta



Aleso RC



Puntale mobile integrale
in widia raggato

Integral mobile tip
in widia radiused



Aleso CAS



Manual recall of the
mobile tip and the
touchpad

Richiamo manuale
del puntale mobile e
del palpatoio



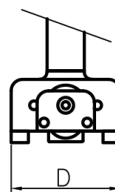
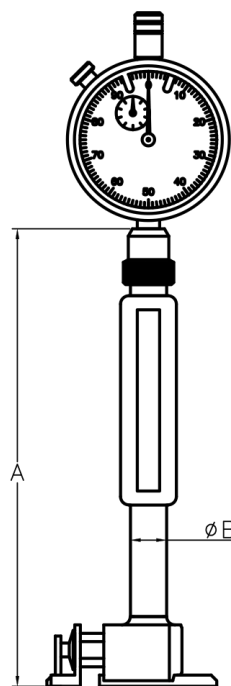
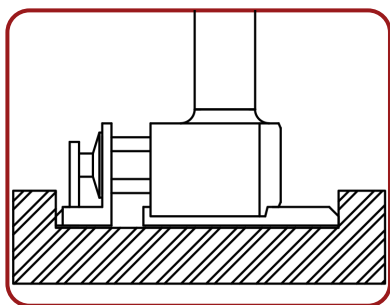
Article	Range (mm)	Hole depth (mm)	Number of fixed tips	Number of washers	Extensions quantity (length) (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Mobile tip movement (mm)	Accuracy μm^*	Repeatability μm	CODE	Kg
ALESO RC 30-100	30 - 100	60	5	3	2(25)	165	13	7	25	2.3	± 1	1	D00210	0.160
ALESO RC 50-160	50 - 160	60	6	3	1(25) - 1(55)	170	13	9	38	3.3	± 1	1	D00215	0.190
ALESO RC 100-300	100 - 300	100	6	2	1(50) - 1(100)	245	15	10	66	3.5	± 1	1	D00225	0.400
ALESO CAS 50-160	50 - 160	170	6	3	1(25) - 1(55)	305	13	9	38	6.0	± 1	1	D00230	0.300

*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial guage)

- Mobile tip in MD (WIDIA) integral
- Instrument used for measurement at a minimum distance from the bottom
- Handle with insulation chamber
- Ø8mm dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60

- Puntale mobile MD (WIDIA) integrale
- Strumento utilizzabile per misurazioni ad una distanza minima dal fondo
- Impugnatura con camera di isolamento
- Attacco per comparatore Ø8 mm
- Di serie comparatore 0,01 Ø60 mm



Article	Range (mm)	Hole depth (mm)	Number of contact rod	Number of washers	A (mm)	B (mm)	D (mm)	Mobile tip movement (mm)	Measurement distance from the bottom (mm)	Accuracy μm^*	Repeatability μm	CODE	Kg
ALESO FC 15-35	15-35	90	7	3	162	8	11,5	1,4	1,5	± 2	1	D00303	0,080
ALESO FC 25-60	25-60	130	7	-	155	8	18	1,6	2	± 2	1	D00305	0,100
ALESO FC 50-150	50-150	150	7	-	162	13	38	2,5	1,5	± 2	1	D00310	0,190
ALESO FC 100-300	100-300	230	5	-	250	15	66	3,3	1,5	± 2	1	D00325	0,400

*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial gauge)

DETAILS DETAGLI

ALESO FC 25-60



ALESO FC 50-150



BORE GAUGES ALESAMETRI

- Measurement of parts with a central hub
- For measurements of holes and bearing seats in orthogonal positions to the instrument axis
- Ø8mm with dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60
- Handle with insulation chamber

- Misurazione di particolari con un mozzo centrale
- Per misurazioni di fori e sedi per cuscinetti in posizioni ortogonali rispetto all'asse dello strumento
- Attacco per comparatore Ø8mm
- Di serie comparatore 0,01 Ø60
- Impugnatura con camera di isolamento



Article	Range (mm)	Central hub ø (mm)	Depth (mm)	Accuracy µm*	Repeatability µm	CODE	Kg
ALESO ORTOGON 20-60	20 - 60	40	12	±2	1	D00605	0.250
ALESO ORTOGON 35-100	35 - 100	70	17,5	±2	1	D00610	0.380
ALESO ORTOGON 70-150	70 - 150	100	30	±2	1	D00615	0.530
ALESO ORTOGON 120-280	120 - 280	130	30	±2	1	D00620	0.750
ALESO ORTOGON 200-600	200 - 600	220	30	±2	1	D00625	0.920

*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial gauge)

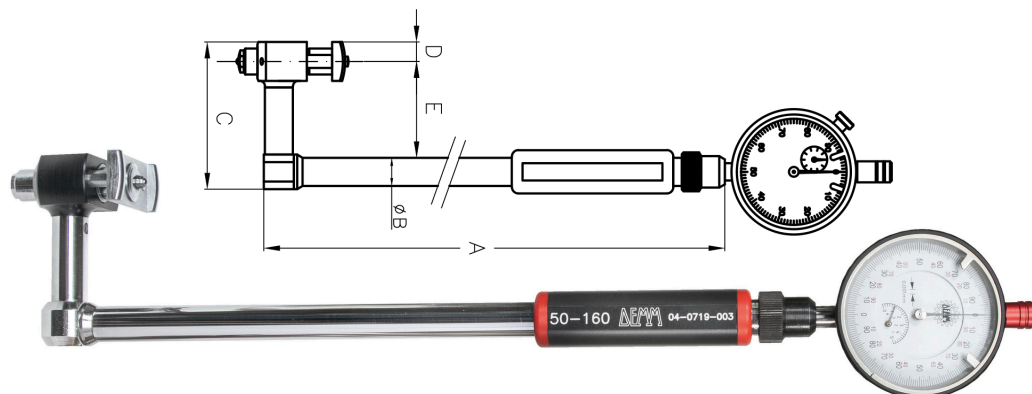
ALESO L

BORE GAUGES ALESAMETRI

Bore gauge with L-shaped rod Alesometro con asta a L

- Mobile tip in MD (WIDIA) integral and radiused
- For measurements of holes and bearing seats in orthogonal positions to the instrument axis
- Ø8mm with dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60
- Handle with insulation chamber

- Puntale mobile MD (WIDIA) integrale e raggiato
- Per misurazioni di fori e sedi per cuscinetti in posizioni ortogonali rispetto all'asse dello strumento
- Attacco per comparatore Ø8mm
- Di serie comparatore 0,01 Ø60
- Impugnatura con camera di isolamento



Article	Range (mm)	Number of fixed tips	Number of washers	Extensions quantity (length) (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Mobile tip movement (mm)	Accuracy µm*	Repeatability µm	CODE	Kg
ALESO L 15-35	15+35	7	2	-	200	8	44	4	32	1,6	±2	1	D00405	0,090
ALESO L 30-100	30+100	5	3	2(25)	275	13	66	7	44	2,3	±2	1	D00410	0,270
ALESO L 50-160	50+160	6	3	1(25) - 1(55)	275	13	69	9	45	3,3	±2	1	D00415	0,300
ALESO L 100-300	100+300	6	2	1(50) - 1(100)	375	15	102,5	10	70	3,5	±2	1	D00425	0,510

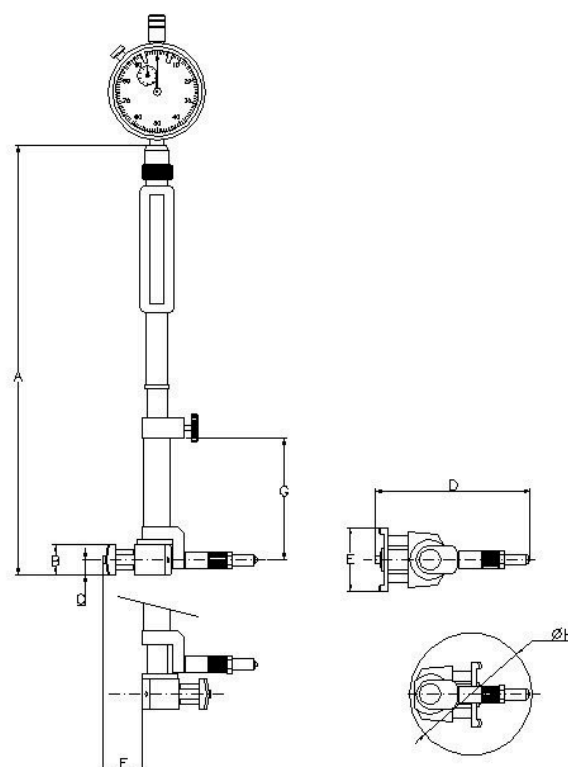
*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial gauge)

BORE GAUGES ALESAMETRI

- Instrument to measure diameter bigger than the entry point (ex. grooves, seats or recesses)
- Mobile tip in MD (WIDIA) *integrale* and radiused
- Interchangeable fixed tips with sphere MD (WIDIA)
- Handle with insulation chamber
- Ø8mm dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60

- Strumento per misurare un diametro più grande rispetto al foro d'entrata (es. scanalature, sedi o rientranze)
- Puntale mobile in MD (WIDIA) *integrale* e raggiato
- Puntali fissi intercambiabili con sfera MD (WIDIA)
- Impugnatura con camera di isolamento
- Attacco per comparatore Ø8 mm
- Di serie comparatore 0,01 Ø60

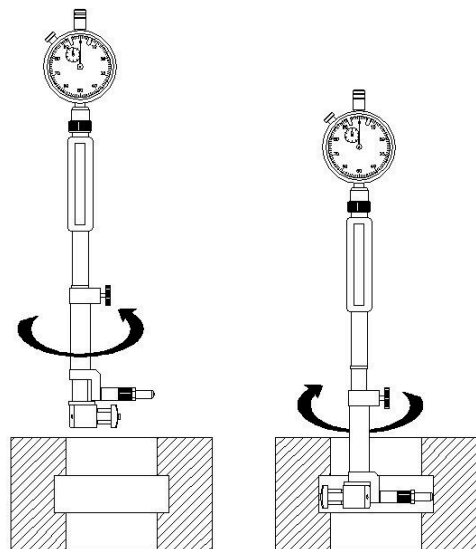


Article	D Range (mm)	ØH Entry minimum diameter (mm)	F Retraction (mm)	G Measuring depth (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Number of fixed tips	Number of washers	Extensions quantity (length) (mm)	Mobile tip movement (mm)	Accuracy µm*	Repeatability µm	CODE	Kg
ALESO Z 50-160	50 - 160	50	20	90	255	18	9	38	6	3	1(25) - 1(55)	3.3	±2	1	D00515	0.250
ALESO Z 100-300	100 - 300	75	35	140	350	20	10	66	6	2	1(50) - 1(100)	3.5	±2	1	D00525	0.510

*Precisione su un'escursione di 0,5 mm (escluso comparatore)

*Accuracy on 0,5 mm measuring travel (excluding dial gauge)

APPLICATION APPLICAZIONE



BORE GAUGES ALESAMETRI

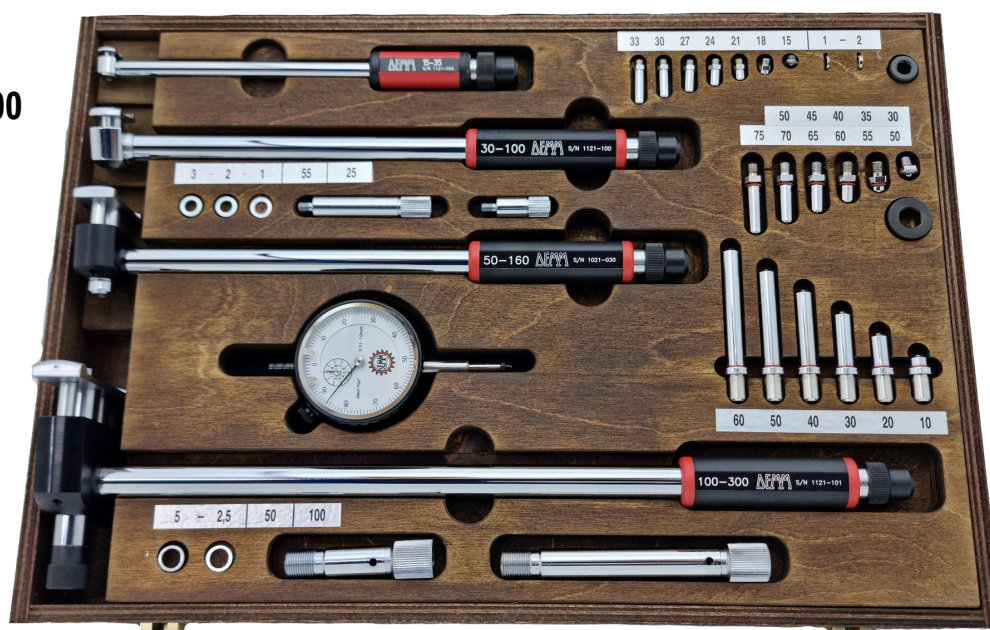
- Mobile tip in MD (WIDIA) *integrale* and radiused
- Interchangeable fixed tips with sizable sphere MD (WIDIA)
- Handle with insulation chamber
- Ø8mm dial gauge clamping shank
- Supplied with dial gauge 0,01 Ø60

- Puntale mobile in MD (WIDIA) *integrale* e raggiato
- Puntali fissi intercambiabili con sfera maggiorata in MD (WIDIA)
- Impugnatura con camera di isolamento
- Attacco per comparatore Ø8 mm
- Di serie comparatore 0,01 Ø60

ALESO 15 - 210



ALESO 15 - 300



Article	Range	Composition*	CODE
ALESO SET 15-210	15 - 210	ALESO 15-35	D10005
		ALESO 30-100	
		ALESO 50-210	
ALESO SET 15-300	15 - 300	ALESO 15-35	D10010
		ALESO 30-100	
		ALESO 50-160	
		ALESO 100-300	

*See individual characteristics on pg.56 of the catalog

*Vedi caratteristiche individuali a pag.56 del catalogo

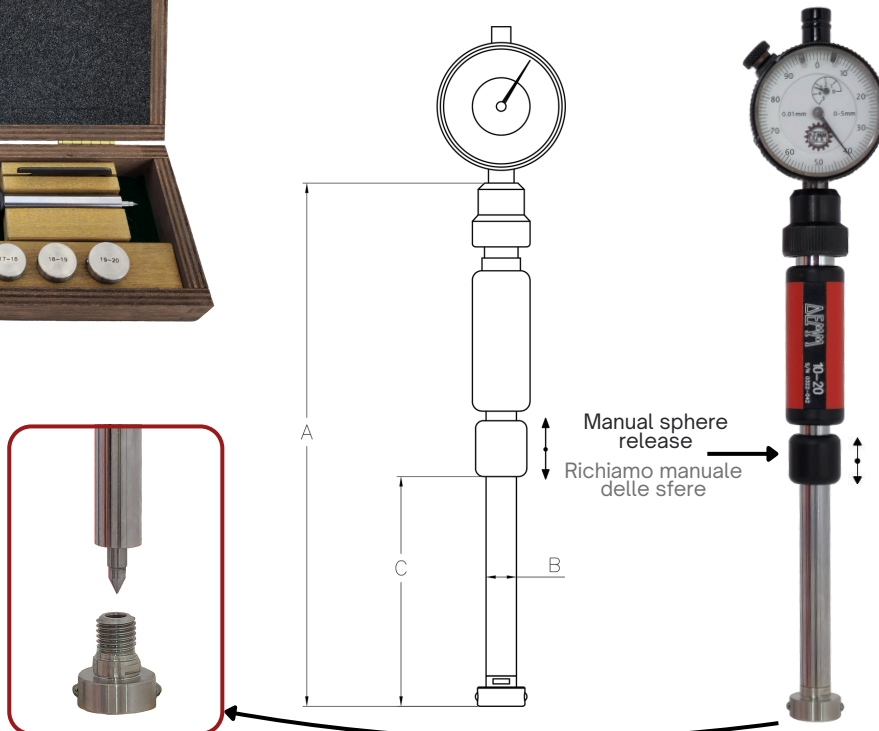
BORE GAUGES ALESAMETRI

- Interchangeable measuring heads with MD (Widia) spheres
- Supplied with 10 measuring heads
- Manual recall of the mechanism, to facilitate entry into the holes
- ø8mm dial gauge clamping shank
- Supplied with dial gauge 0,01 ø40

- Testine di misurazione intercambiabili in dotazione con sfere in MD (Widia)
- Di serie 10 testine incluse
- Richiamo manuale del meccanismo, per facilitare l'ingresso nei fori
- Attacco comparatore ø8mm
- Di serie comparatore 0,01 ø40



Supplied with 10 measuring heads
Di serie 10 testine incluse



Article	Range (mm)	A	B	C	Single head range (mm)	Min. measurement distance from the bottom (mm)	Accuracy μm^*	Repeatability μm	Code	Kg
EFESO 5-10	5-10	145	4,8	70	0,5	2	± 2	2	D01005	0,060
EFESO 10-20	10-20	160	9,5	70	1	3	± 2	2	D01010	0,100

*Accuracy on 0.5mm measuring travel (excluding dial gauge)

*Precisione con escursione di 0,5mm (escluso comparatore)

INTERCHANGEABLE HEADS

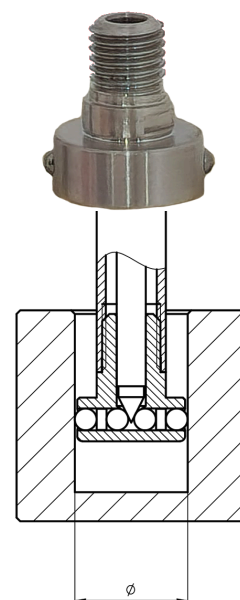
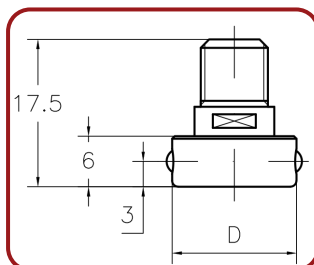
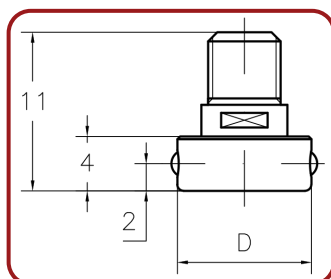
TESTINE INTERCAMBIABILI

EFESO 5 - 10

Article	Range (mm)	D	Code
Testa 5-10/d5	5 - 5,5	4,8	DR0005
Testa 5-10/d5,5	5,5 - 6	5,3	DR0010
Testa 5-10/d6	6 - 6,5	5,8	DR0015
Testa 5-10/d6,5	6,5 - 7	6,3	DR0020
Testa 5-10/d7	7 - 7,5	6,8	DR0025
Testa 5-10/d7,5	7,5 - 8	7,3	DR0030
Testa 5-10/d8	8 - 8,5	7,8	DR0035
Testa 5-10/d8,5	8,5 - 9	8,3	DR0040
Testa 5-10/d9	9 - 9,5	8,8	DR0045
Testa 5-10/d9,5	9,5 - 10	9,3	DR0050

EFESO 10 - 20

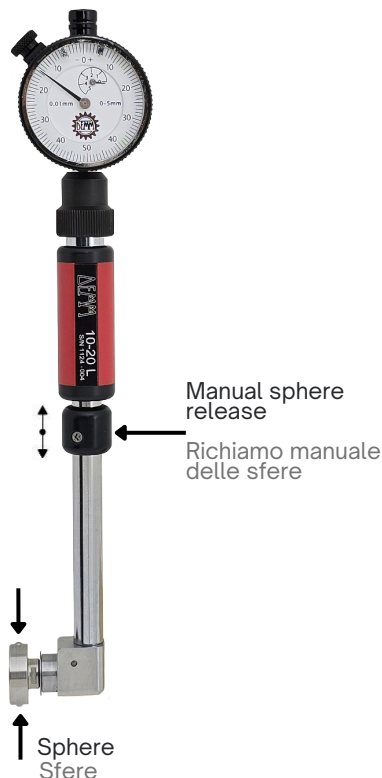
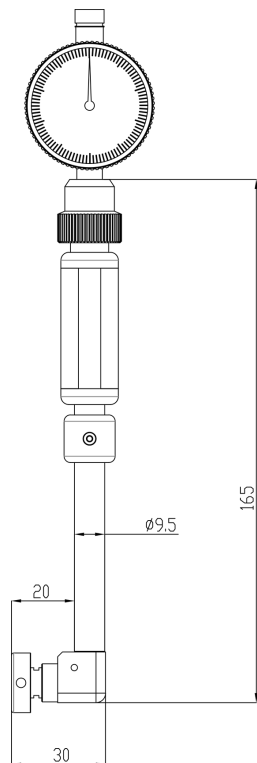
Article	Range (mm)	D	Code
Testa 10-20/d10-11	10 - 11	9,8	DR0105
Testa 10-20/d11-12	11 - 12	10,8	DR0110
Testa 10-20/d12-13	12 - 13	11,8	DR0115
Testa 10-20/d13-14	13 - 14	12,8	DR0120
Testa 10-20/d14-15	14 - 15	13,8	DR0125
Testa 10-20/d15-16	15 - 16	14,8	DR0130
Testa 10-20/d16-17	16 - 17	15,8	DR0135
Testa 10-20/d17-18	17 - 18	16,8	DR0140
Testa 10-20/d18-19	18 - 19	17,8	DR0145
Testa 10-20/d19-20	19 - 20	18,8	DR0150



BORE GAUGES ALESAMETRI

- Interchangeable measuring heads with MD (Widia) spheres on request
- Manual recall of the mechanism, to facilitate entry into the holes
- $\varnothing 8\text{mm}$ dial gauge clamping shank
- Supplied with dial gauge 0,01 $\varnothing 40$

- Testine di misurazione intercambiabili con sfere in MD (Widia) su richiesta
- Richiamo manuale del meccanismo, per facilitare l'ingresso nei fori
- Attacco comparatore $\varnothing 8\text{mm}$
- Di serie comparatore 0,01 $\varnothing 40$



Article	Range (mm)	Single head range (mm)	Min. measurement distance from the bottom (mm)	Accuracy μm^*	Repeatability μm	Code	Kg
EFESO L 10-20	10-20	1	3	± 2	2	D01013	0,100

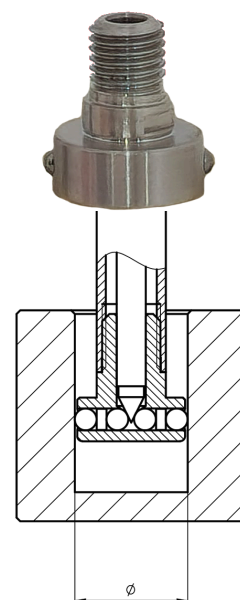
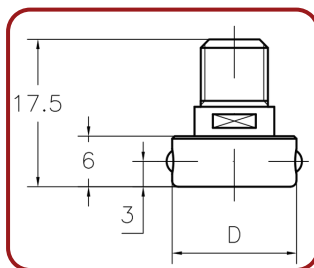
*Accuracy on 0.5mm measuring travel (excluding dial gauge)

*Precisione con escursione di 0,5mm (escluso comparatore)

OPTIONAL INTERCHANGEABLE HEADS

TESTINE INTERCAMBIABILI OPZIONALI

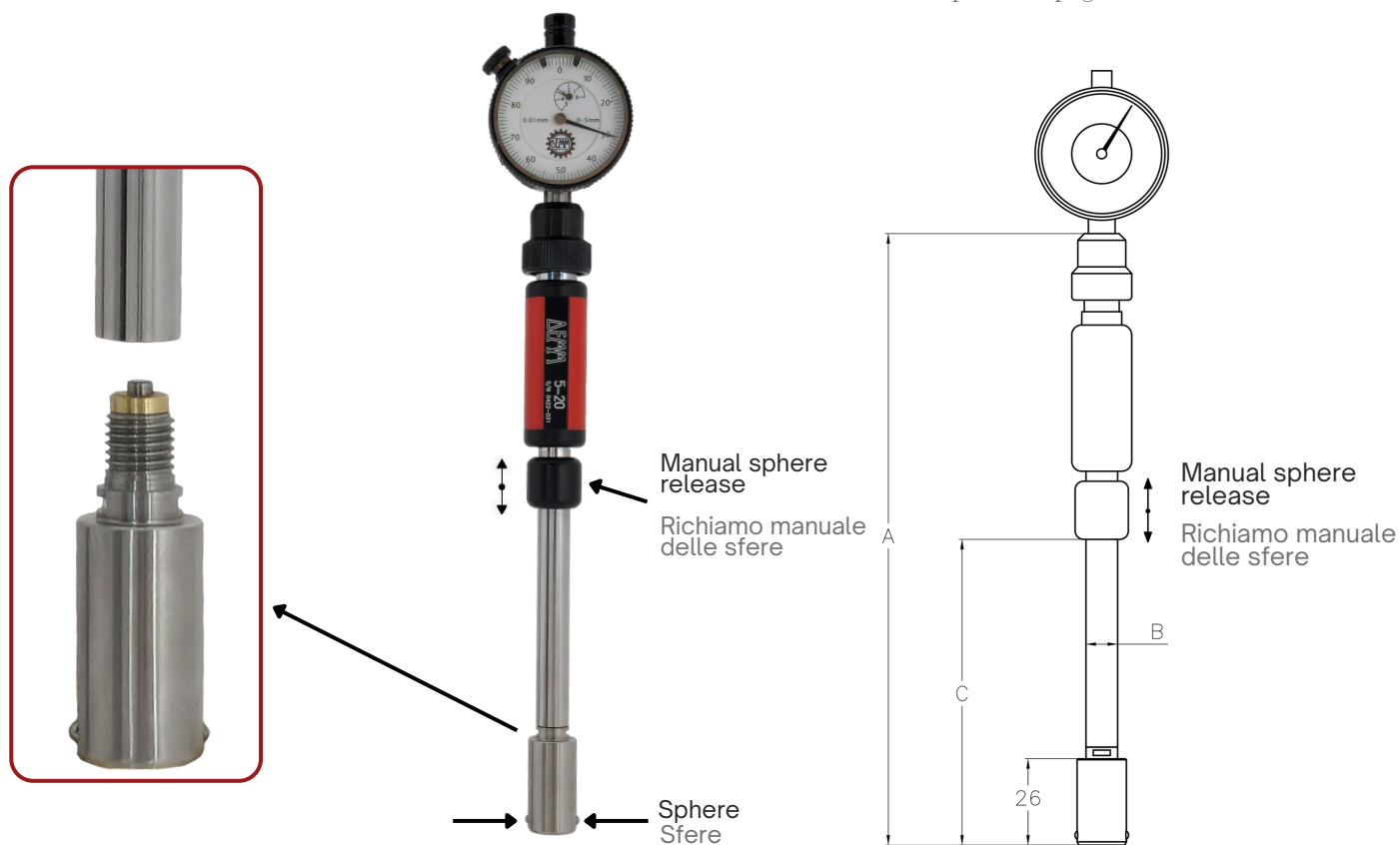
Article	Range (mm)	D	Code
Testa 10-20/d10-11	10 - 11	9,8	DR0105
Testa 10-20/d11-12	11 - 12	10,8	DR0110
Testa 10-20/d12-13	12 - 13	11,8	DR0115
Testa 10-20/d13-14	13 - 14	12,8	DR0120
Testa 10-20/d14-15	14 - 15	13,8	DR0125
Testa 10-20/d15-16	15 - 16	14,8	DR0130
Testa 10-20/d16-17	16 - 17	15,8	DR0135
Testa 10-20/d17-18	17 - 18	16,8	DR0140
Testa 10-20/d18-19	18 - 19	17,8	DR0145
Testa 10-20/d19-20	19 - 20	18,8	DR0150



BORE GAUGES ALESAMETRI

- Manual recall of the mechanism, to facilitate entry into the holes
- $\varnothing 8\text{mm}$ dial gauge clamping shank
- Supplied with dial gauge 0,01 $\varnothing 40$
- Optional: interchangeable measuring heads with MD (Widia) spheres
- Compatible heads at page.12

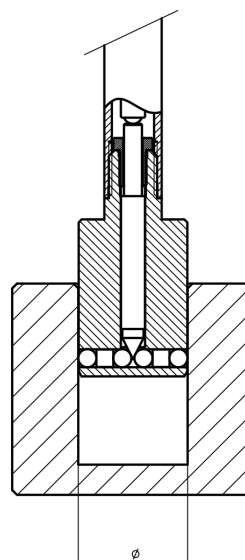
- Richiamo manuale del meccanismo, per facilitare l'ingresso nei fori
- Attacco comparatore $\varnothing 8\text{mm}$
- Di serie comparatore 0,01 $\varnothing 40$
- Opzionali: testine di misurazione intercambiabili con sfere in MD (Widia)
- Testine compatibili a pag.12



Article	Range (mm)	A	B	C	Repeatability μm	Code	Kg
EFESO PLUS 5-20	5-20	180	9.5	90	1	D01015	0.100

EFESO PLUS OPTIONAL HEADS

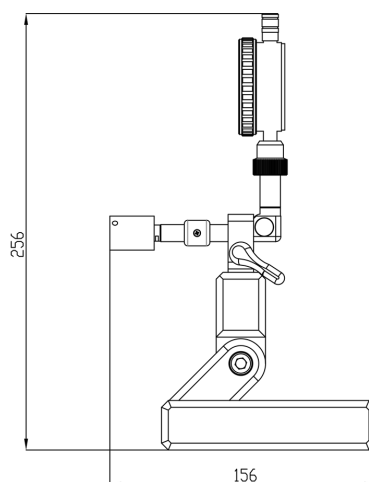
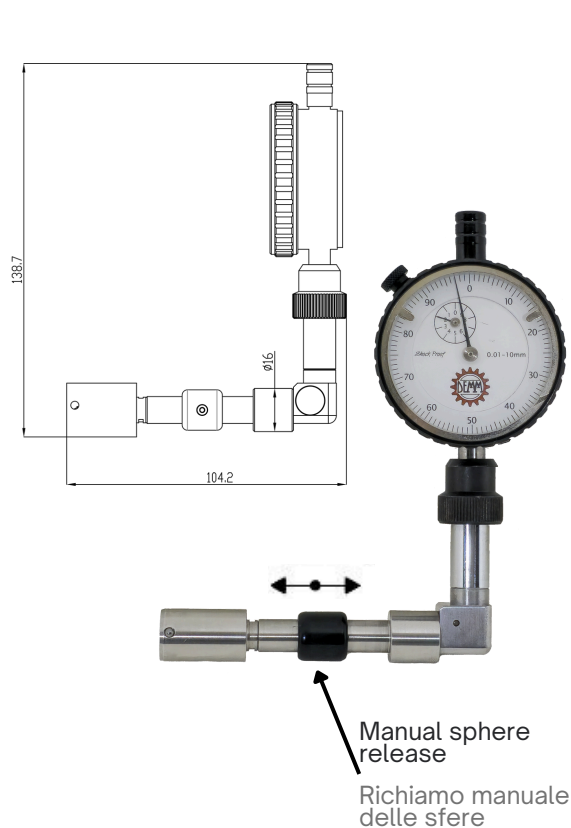
TESTINE OPZIONALI PER EFESO PLUS



BORE GAUGES ALESAMETRI

- Manual recall of the mechanism, to facilitate entry into the holes
- $\varnothing 8\text{mm}$ dial gauge clamping shank
- Supplied with dial gauge 0,01 $\varnothing 40$
- Optional: interchangeable measuring heads with MD (Widia) spheres
- Compatible heads at page.12

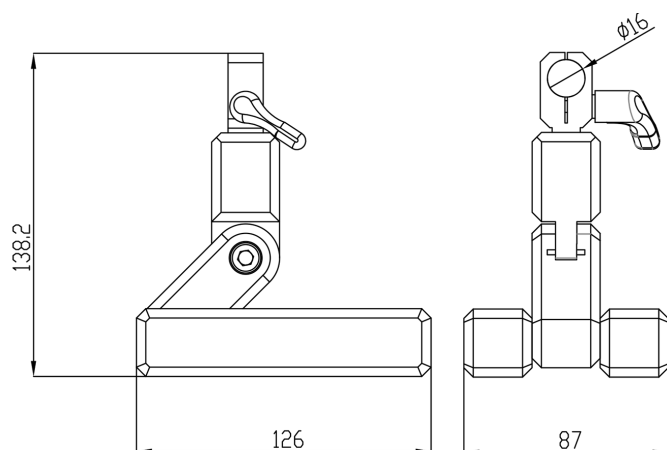
- Richiamo manuale del meccanismo, per facilitare l'ingresso nei fori
- Attacco comparatore $\varnothing 8\text{mm}$
- Di serie comparatore 0,01 $\varnothing 40$
- Opzionali: testine di misurazione a tampone intercambiabili con sfere in MD (Widia)
- Testine compatibili a pag.12



Article	Range (mm)	Repeatability μm	Code	Kg
EFESO PLUS L 5-20	5-20	1	D01020	0.100

STEEL SUPPORT BASE FOR EFESO PLUS L

SUPPORTO IN ACCIAIO PER EFESO PLUS L

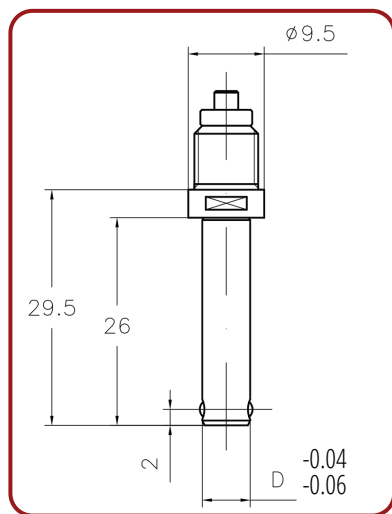


Article	Code	Kg
SUPPORTO EFESO PLUS L	D01025	3.000

HEADS/PADS WITH TWO CONTACT POINTS FOR PRECISION MEASUREMENTS

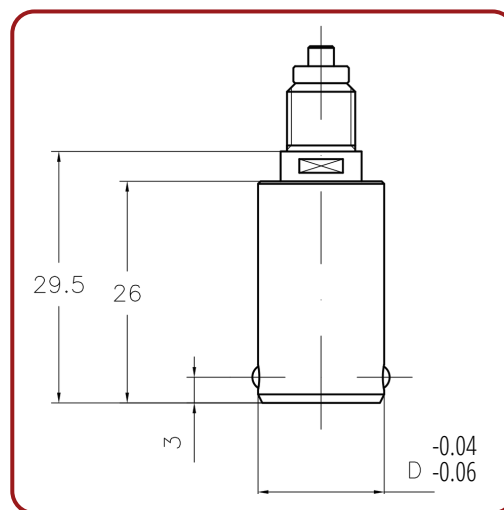
TESTINE/TAMPONE A DUE PUNTI DI CONTATTO PER MISURAZIONI DI PRECISIONE

EFESO PLUS $\varnothing 5 - 10$



Article	Range (mm)	D	Code
TESTINA PLUS d.5,0	5 - 5,2	5	DR0200
TESTINA PLUS d.5,2	5,2 - 5,4	5,2	DR0201
TESTINA PLUS d.5,4	5,4 - 5,6	5,4	DR0202
TESTINA PLUS d.5,6	5,6 - 5,8	5,6	DR0203
TESTINA PLUS d.5,8	5,8 - 6	5,8	DR0204
TESTINA PLUS d.6,0	6 - 6,2	6	DR0205
TESTINA PLUS d.6,2	6,2 - 6,4	6,2	DR0206
TESTINA PLUS d.6,4	6,4 - 6,6	6,4	DR0207
TESTINA PLUS d.6,6	6,6 - 6,8	6,6	DR0208
TESTINA PLUS d.6,8	6,8 - 7	6,8	DR0209
TESTINA PLUS d.7,0	7 - 7,2	7	DR0210
TESTINA PLUS d.7,2	7,2 - 7,4	7,2	DR0211
TESTINA PLUS d.7,4	7,4 - 7,6	7,4	DR0212
TESTINA PLUS d.7,6	7,6 - 7,8	7,6	DR0213
TESTINA PLUS d.7,8	7,8 - 8	7,8	DR0214
TESTINA PLUS d.8	8 - 8,2	8	DR0215
TESTINA PLUS d.8,2	8,2 - 8,4	8,2	DR0216
TESTINA PLUS d.8,4	8,4 - 8,6	8,4	DR0217
TESTINA PLUS d.8,6	8,6 - 8,8	8,6	DR0218
TESTINA PLUS d.8,8	8,8 - 9	8,8	DR0219
TESTINA PLUS d.9	9 - 9,2	9	DR0220
TESTINA PLUS d.9,2	9,2 - 9,4	9,2	DR0221
TESTINA PLUS d.9,4	9,4 - 9,6	9,4	DR0222
TESTINA PLUS d.9,6	9,6 - 9,8	9,6	DR0223
TESTINA PLUS d.9,8	9,8 - 10	9,8	DR0224

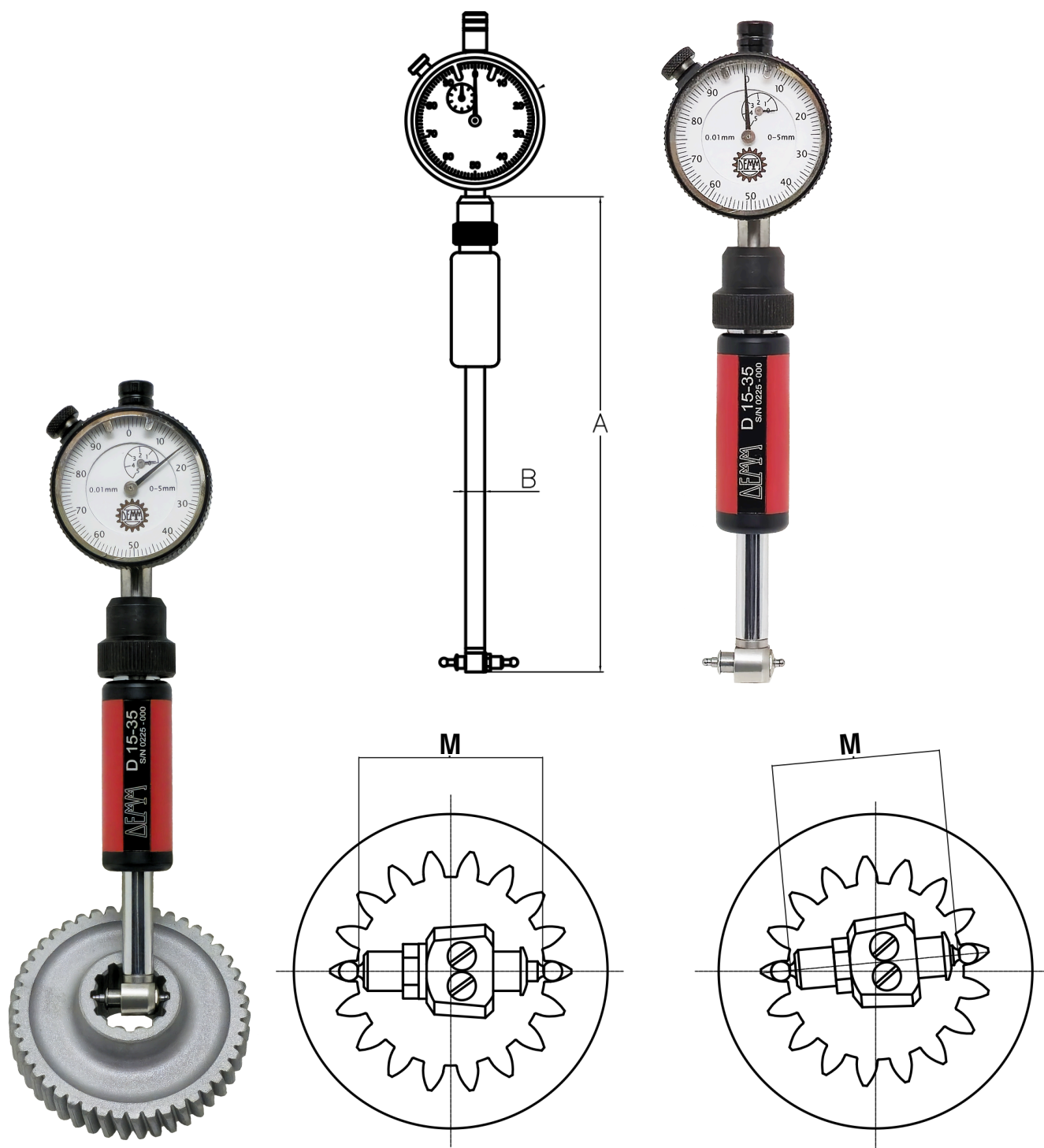
EFESO PLUS $\varnothing 10 - 20$



Article	Range (mm)	D	Code
TESTINA PLUS d.10,0	10 - 10,2	10	DR0225
TESTINA PLUS d.10,2	10,2 - 10,4	10,2	DR0226
TESTINA PLUS d.10,4	10,4 - 10,6	10,4	DR0227
TESTINA PLUS d.10,6	10,6 - 10,8	10,6	DR0228
TESTINA PLUS d.10,8	10,8 - 11	10,8	DR0229
TESTINA PLUS d.11	11 - 11,2	11	DR0230
TESTINA PLUS d.11,2	11,2 - 11,4	11,2	DR0231
TESTINA PLUS d.11,4	11,4 - 11,6	11,4	DR0232
TESTINA PLUS d.11,6	11,6 - 11,8	11,6	DR0233
TESTINA PLUS d.11,8	11,8 - 12	11,8	DR0234
TESTINA PLUS d.12	12 - 12,2	12	DR0235
TESTINA PLUS d.12,2	12,2 - 12,4	12,2	DR0236
TESTINA PLUS d.12,4	12,4 - 12,6	12,4	DR0237
TESTINA PLUS d.12,6	12,6 - 12,8	12,6	DR0238
TESTINA PLUS d.12,8	12,8 - 13	12,8	DR0239
TESTINA PLUS d.13	13 - 13,2	13	DR0240
TESTINA PLUS d.13,2	13,2 - 13,4	13,2	DR0241
TESTINA PLUS d.13,4	13,4 - 13,6	13,4	DR0242
TESTINA PLUS d.13,6	13,6 - 13,8	13,6	DR0243
TESTINA PLUS d.13,8	13,8 - 14	13,8	DR0244
TESTINA PLUS d.14	14 - 14,2	14	DR0245
TESTINA PLUS d.14,2	14,2 - 14,4	14,2	DR0246
TESTINA PLUS d.14,4	14,4 - 14,6	14,4	DR0247
TESTINA PLUS d.14,6	14,6 - 14,8	14,6	DR0248
TESTINA PLUS d.14,8	14,8 - 15	14,8	DR0249
TESTINA PLUS d.15	15 - 15,2	15	DR0250
TESTINA PLUS d.15,2	15,2 - 15,4	15,2	DR0251
TESTINA PLUS d.15,4	15,4 - 15,6	15,4	DR0252
TESTINA PLUS d.15,6	15,6 - 15,8	15,6	DR0253
TESTINA PLUS d.15,8	15,8 - 16	15,8	DR0254
TESTINA PLUS d.16	16 - 16,2	16	DR0255
TESTINA PLUS d.16,2	16,2 - 16,4	16,2	DR0256
TESTINA PLUS d.16,4	16,4 - 16,6	16,4	DR0257
TESTINA PLUS d.16,6	16,6 - 16,8	16,6	DR0258
TESTINA PLUS d.16,8	16,8 - 17	16,8	DR0259
TESTINA PLUS d.17	17 - 17,2	17	DR0260
TESTINA PLUS d.17,2	17,2 - 17,4	17,2	DR0261
TESTINA PLUS d.17,4	17,4 - 17,6	17,4	DR0262
TESTINA PLUS d.17,6	17,6 - 17,8	17,6	DR0263
TESTINA PLUS d.17,8	17,8 - 18	17,8	DR0264
TESTINA PLUS d.18	18 - 18,2	18	DR0265
TESTINA PLUS d.18,2	18,2 - 18,4	18,2	DR0266
TESTINA PLUS d.18,4	18,4 - 18,6	18,4	DR0267
TESTINA PLUS d.18,6	18,6 - 18,8	18,6	DR0268
TESTINA PLUS d.18,8	18,8 - 19	18,8	DR0269
TESTINA PLUS d.19	19 - 19,2	19	DR0270
TESTINA PLUS d.19,2	19,2 - 19,4	19,2	DR0271
TESTINA PLUS d.19,4	19,4 - 19,6	19,4	DR0272
TESTINA PLUS d.19,6	19,6 - 19,8	19,6	DR0273
TESTINA PLUS d.19,8	19,8 - 20	19,8	DR0274
TESTINA PLUS d.20	20 - 20,2	20	DR0275

- Instrument for measuring toothed and slotted holes
- $\varnothing 8\text{mm}$ dial gauge clamping shank
- Supplied with dial gauge 0,01 $\varnothing 60$
- Handle with insulation chamber
- Suppliable with MD(Widia) spheres : $\varnothing 1.000 - 1.500$
- 2.000 - 2.500 - 3.000 - 3.500 - 4.000 - 4.500 - 5.000 -
5.500 - 6.000 mm

- Strumento per la misurazione di fori dentati e scanalati
- Attacco comparatore $\varnothing 8\text{mm}$
- Di serie comparatore 0,01 $\varnothing 60$
- Impugnatura con camera di isolamento
- Fornibile con sfere MD (Widia): $\varnothing 1.000 - 1.500$
- 2.000 - 2.500 - 3.000 - 3.500 - 4.000 - 4.500 -
5.000 - 5.500 - 6.000 mm



Article	Range (mm)	Hole depth (mm)	Number of fixed tips	Number of washers	Extensions quantity (length) (mm)	A (mm)	B (mm)	Mobile tip movement (mm)	Accuracy μm^*	Repeatability μm	CODE	Kg
ALESO D 15-35	15 - 35	35	4	2	1(9)	105	8	1.6	± 1	1	D00705	0.070
ALESO D 30-100	30 - 100	130	5	3	2(25)	155	13	2.3	± 1	1	D00710	0.150
ALESO D 50-210	50 - 210	250	6	3	1(25) - 2(55)	280	13	3.3	± 1	1	D00720	0.220

90° DEGREE ANGLE RETURN FOR DIAL
READING OPERATIONS

ø8 CONNECTOR

INSTRUMENTS COMPATIBLE:

- BORE GAUGES
- PULSAR
- PLATON FAMILY INSTRUMENTS
- ALL INSTRUMENTS WITH ø8mm
CONNECTOR



RINVIO AD ANGOLO DI 90° PER OPERAZIONI
DI LETTURA COMPARATORE

ATTACCO ø8

STRUMENTI COMPATIBILI:

- ALESAMETRI
- PULSAR
- FAMIGLIA DI STRUMENTI PLATON
- TUTTI GLI STRUMENTI CON ATTACCO
ø8mm

4" TOUCH SCREEN DIGITAL DISPLAY
PROGRAMMABLE: MIN-MAX-DELTA
READING: 0.0001mm
INPUT AND DISPLAY 2 PROBES
SIMULTANEOUSLY

PROBES WITH 0.001mm PRECISION
SUPPLIED WITH RANGE ON REQUEST
COMPATIBLE WITH INSTRUMENTS
WITH ø8mm CONNECTOR

DISPLAY DIGITALE TOUCH SCREEN DA 4"
PROGRAMMABILE: MIN-MAX-DELTA
LETTURA 0.0001mm
INGRESSO E VISUALIZZAZIONE 2 SONDE
CONTEMPORANEAMENTE

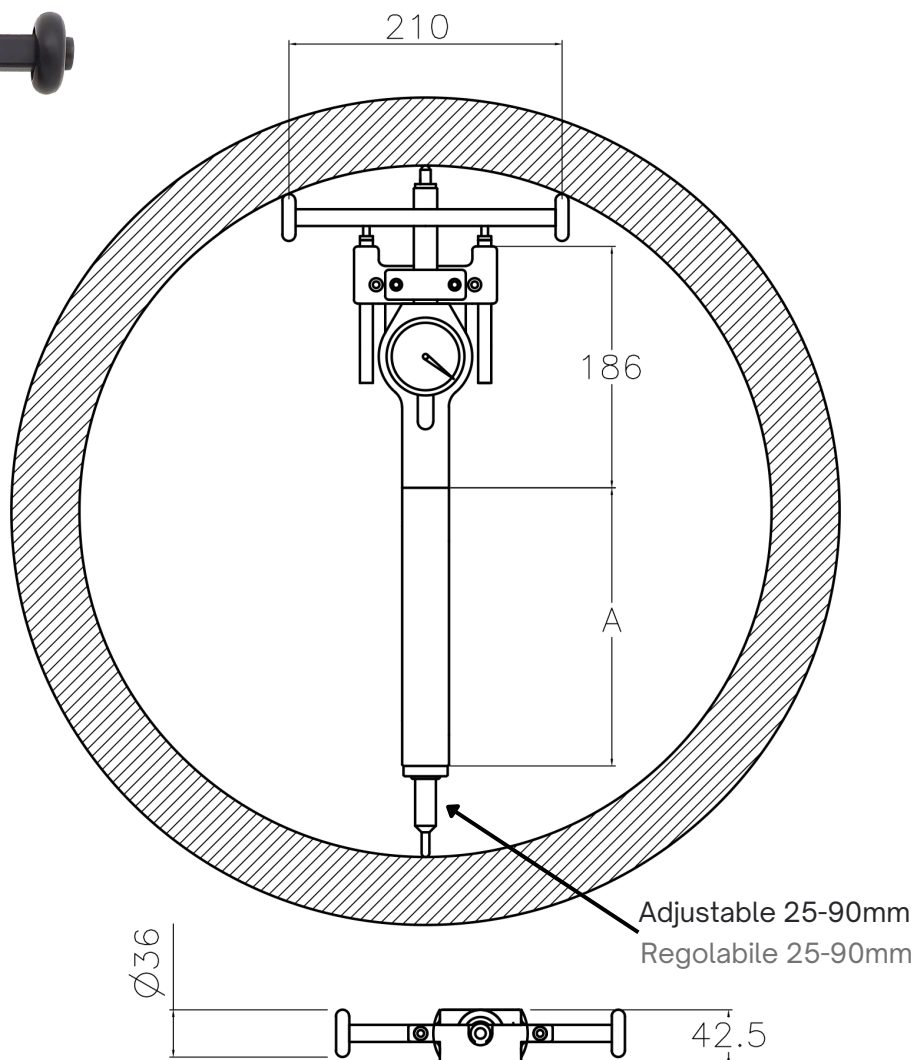
SONDE CON PRECISIONE 0.001mm
FORNITE CON RANGE SU RICHIESTA
COMPATIBILE CON STRUMENTI CON
ATTACCO ø8mm



COMPARISON GAUGES CALIBRI A COMPARAZIONE

- Comparative instrument with preload
- Sectional body for the insertion of calibrated extensions to increase the measuring range
- Carbon fiber extensions
- On request, calibrated extensions $\pm 0.01\text{mm}$

- Strumento a comparazione con precarica
- Corpo sezionabile per l'inserimento di prolunghe calibrate per aumentare il campo di misura
- Aste in fibra di carbonio
- Su richiesta, aste calibrate $\pm 0.01\text{mm}$

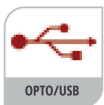


Article	Range	Repeatability	Code	Kg
Calipso	280 -3300	0.01 / 300	01022	0.750

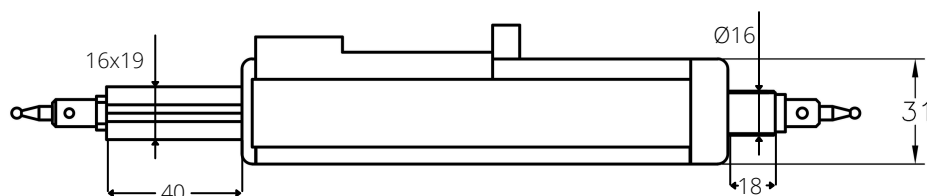
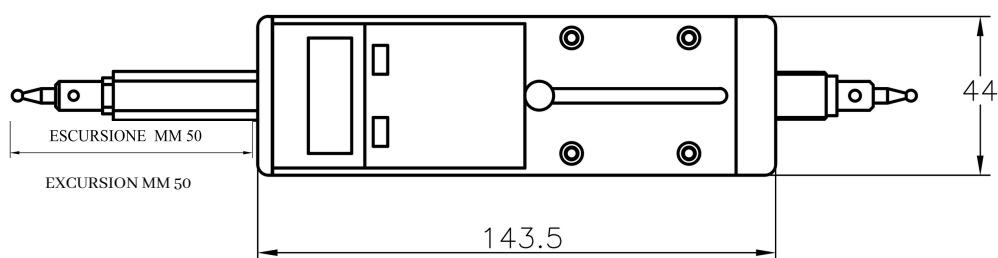


Article	A	Code	Kg
PRS 50	50	01023	00000
PRS 100	100	01024	00000
PRS 200	200	01025	00000
PRS 400	400	01026	00000
PRS 800	800	01027	00000





- Digital instrument for internal measurements with excursion of mm 50, spring system
- Interchangeable rods with sphere, ϕ by request
- Optional extensions in carbon fiber range 50 - 800 mm
- Large cursor excursion, for measurements of grooves depth 30 or 50 mm
- Manufactured on steel inox and aluminium
- Standard interchangeable rods $\phi 3$ sphere and 12mm length
- Strumento digitale per misurazione di interni con escursione mm 50, contatto a molla
- Puntali intercambiabili a sfera ϕ a richiesta
- Prolunghe opzionali per campo di lavoro fino a mm 800
- Grande escursione del cursore, per misurazioni di gole profonde mm 30 o 50
- Costruito in alluminio anodizzato e acciaio inox
- Puntalini con terminali a sfera $\phi 3$ di serie lunghezza 12mm



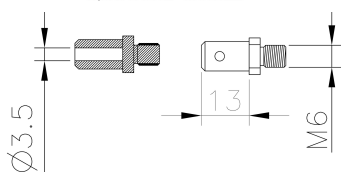
Article	Range	Resolution	Accuracy	Code	Kg
Mitra 30	125-155/800	0.01	± 0.01	00867	0.480
Mitra 50	200-250/800	0.01	± 0.01	00676	0.640
Mitra 100	250-350/1500	0.01	± 0.01	01900	0.800

APPLICATION APPLICAZIONE



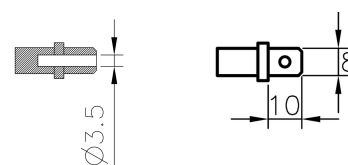
ACCESSORIES ACCESSORI

MOBILE PROBE
TASTATORE MOBILE



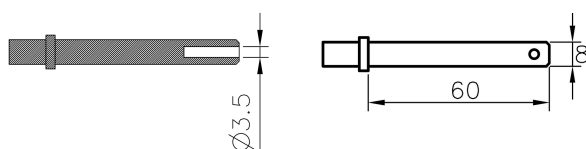
Article	Code	Kg
TAS13	00677	0,02

PROBE FOR RANGE 200-250
TASTATORE PER UTILE 200-250



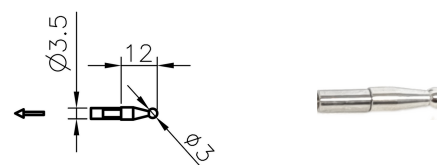
Article	Code	Kg
TAS10	00678	0,02

PROBE FOR RANGE 250-300
TASTATORE PER UTILE 250-300



Article	Code	Kg
TAS60	00679	0,03

STANDARD EQUIPMENT Ø3

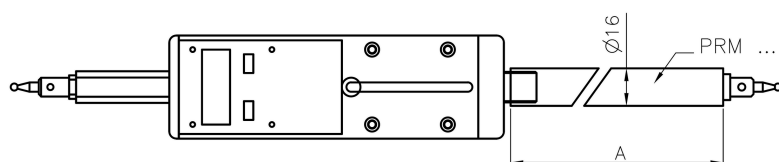


Article	Code
TS...	see page 135 of the DEMM catalog

OPTIONAL EXTENTIONS PROLUNGHE OPZIONALI

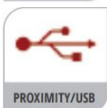
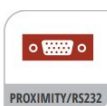


OPTIONAL EXTENTIONS LIGHT WEIGHT
PROLUNGHE OPZIONALI CON STELO IN CARBONIO



Article	A mm	Code	Kg
PRM50	50	01910	0,040
PRM100	100	01911	0,080
PRM200	200	01912	0,120
PRM300	300	01913	0,160

GROOVES CALIPER CALIBRO PER GOLE



- Digital instrument for internal measurements with spring system
- Interchangeable rods with sphere, $\varnothing$ on request
- Optional extensions in carbon fiber range 100 - 1000 mm
- Large cursor excursion, for measurements of grooves depth 100 mm and $\varnothing$ up to 3m
- Manufactured on steel inox and aluminium
- Standard interchangeable rods sphere $\varnothing$ 3
- Electronic module IP67, data transmission Proximity-USB
- Preset, minimum/maximum, scaling factor (for diametral reading)
- On request calibrated extensions ± 0.01 mm

- Strumento digitale per misurazione di interni con contatto a molla
- Puntali intercambiabili a sfera $\varnothing$ a richiesta
- Prolunghe opzionali in fibra di carbonio per range 100 - 1000 mm
- Grande escursione del cursore, per misurazioni di gole profonde mm 100 e $\varnothing$ fino a 3m
- Costruito in alluminio anodizzato e acciaio inox
- Puntalini con terminali a sfera $\varnothing$ 3 di serie
- Elettronica IP67, trasmissione dati Proximity-USB
- Preset, minimo/massimo, fattore di scala (per letture diametrali)
- Su richiesta, aste calibrate ± 0.01 mm



Article	Range	Resolution	Accuracy	Code	Kg
BIG MITRA	300-400/3000	0,01	0,01	00886	0,850

OPTIONAL EXTENTIONS PROLUNGHE OPZIONALI

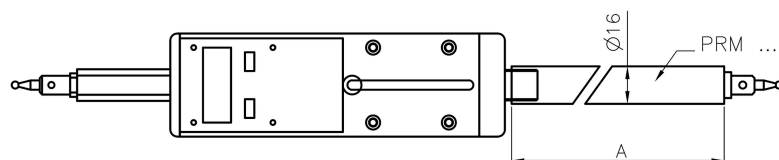


Carbon fiber
Fibra di carbonio

Steel
Acciaio



OPTIONAL EXTENTIONS LIGHT WEIGHT PROLUNGHE OPZIONALI CON STELO IN CARBONIO

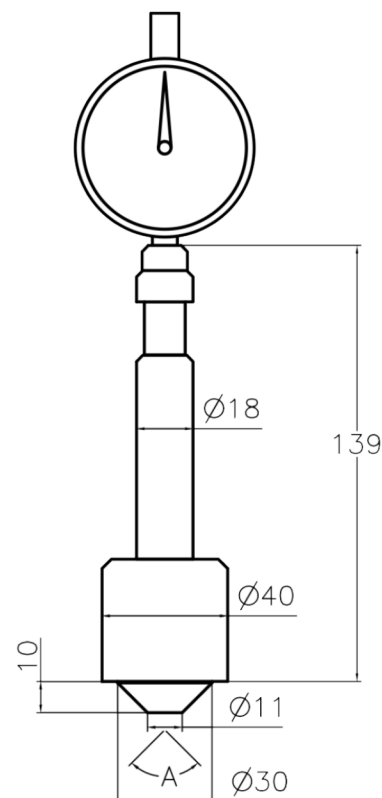


Article	A mm	Code	Kg
PRMB 100	100	00868	0,100
PRMB 200	200	00869	0,140
PRMB 300	300	00872	0,220
PRMB 500	500	00874	0,300
PRMB 1000	1000	00875	0,450

BORE GAUGES ALESAMETRI

- Tip with inclination corresponding to the countersinking to be measured
- $\varnothing 8\text{mm}$ dial gauge clamping shank

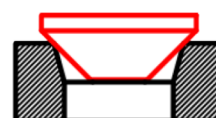
- Puntale ad inclinazione corrispondente alla svasatura da misurare
- Attacco omparatore $\varnothing 8$



Article	Range $\varnothing$	A	Code	Kg
MEDUSA 1130	$\varnothing 11 - \varnothing 30$	90°	00754	0,600



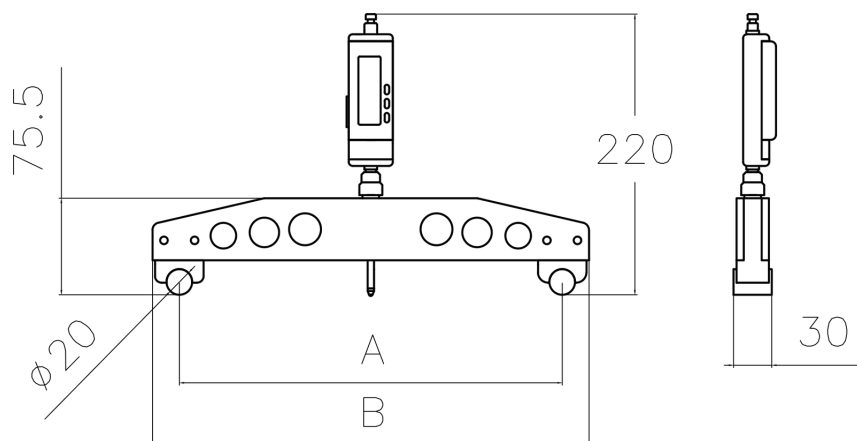
Per svasature a 90°
For 90° countersinking



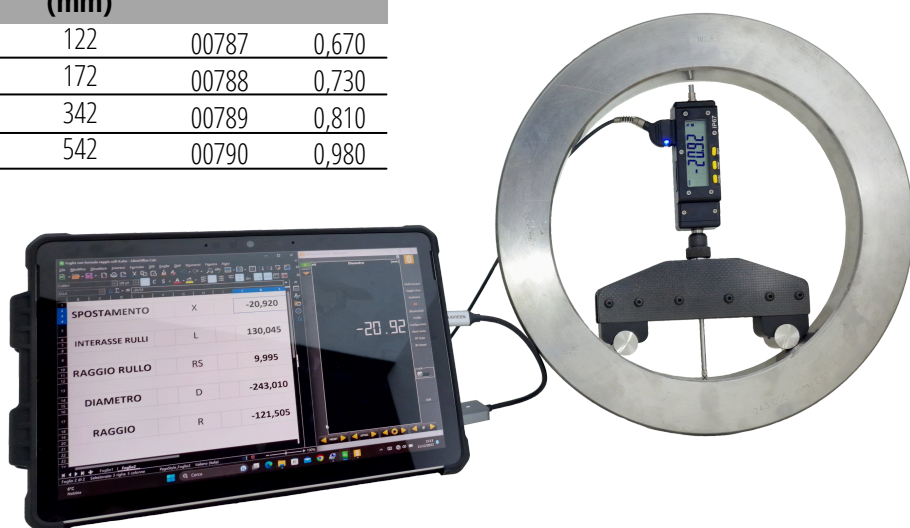
Per svasature $< 90^\circ$
For countersinking $< 90^\circ$

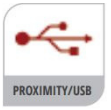
- Carbon fiber tool to determine the Radius/Diameter of a piece by detecting it from its arc
- Use of external Computer/Tablet PC to calculate the Radius/Diameter using formulas and Sylvac Software
- Connection to computer/Tablet PC via Proximity-USB, optionally Wireless
- Use of digital dial for data detection and transmission
- Zeroing on the reference plane

- Strumento in fibra di carbonio per determinare il Raggio/Diametro di un pezzo rilevandolo da un suo arco
- Uso di Computer/Tablet PC esterno per il calcolo del raggio/diametro tramite formule e software Sylvac
- Connessione a Computer/Tablet PC Proximity-USB opzionalmente Wireless
- Utilizzo di comparatore digitale per rilevazione e trasmissione dati
- Azzeramento su piano di riscontro



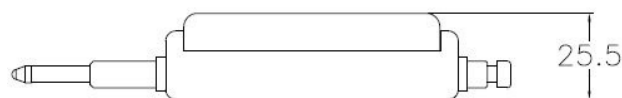
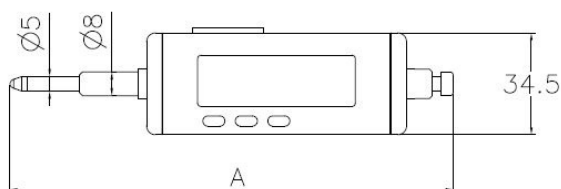
Article	Raggio	A (mm)	B (mm)	CODE	Kg
ARCHIMEDE 80	50 - 200	80	122	00787	0,670
ARCHIMEDE 130	97 - 800	130	172	00788	0,730
ARCHIMEDE 300	470 - 2000	300	342	00789	0,810
ARCHIMEDE 500	1270 - 10000	500	542	00790	0,980





- Accuracy and quality for workshop
- Stern and spindle stainless steel, hardened and lapped
- Adjustable tolerance marks
- Built in accordance with DIN 878
- Data transmission Proximity-USB, Optional wireless
- Preset, Set minimum / maximum
- Diametral reading using scaling factor integrated

- Precisione e qualità di lavoro
- La cremagliera e la bussola sono in acciaio inox, lappato
- Misura regolabile con contatto
- Costruito in rispetto alle norme DIN 878
- Trasmissione dati Proximity-USB, Opzionale wireless
- Preset, Impostazione minimo / massimo
- Lettura diametrale usando fattore di scala integrato

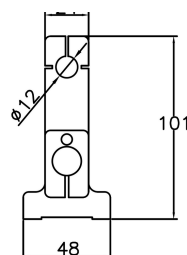
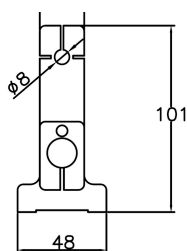


Article	Range (mm)	A (mm)	Resolution	Accuracy	CODE	Kg
FEDRA 15	15	150	0.01	±0.01	00769	0.150
FEDRA 30	30	180	0.01	±0.01	00770	0.170
FEDRA 50	50	220	0.01	±0.01	00771	0.190

Article	Range (mm)	A (mm)	Resolution	Accuracy on 5mm range	CODE	Kg
FEDRA 5	5	150	0.001	±0.003	00877	0.150
FEDRA 10	10	180	0.001	±0.003	00878	0.170



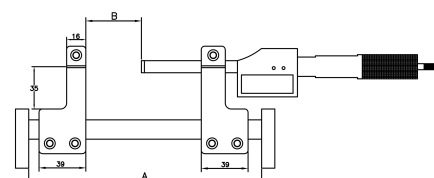
- Adjustable supports for the stroke of the dial gauge to be measure
- Dial gauge shaft $\varnothing 8$
- Supporti regolabili per la corsa del comparatore da controllare
- Attacco comparatore $\varnothing 8$

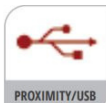


Article	A	B	Resolution	Code	Kg
PALLAS	250 MM	160 MM	0.001	00682	1,100

EXAMPLE OF APPLICATION ESEMPIO D'APPLICAZIONE

CHECK DIAL GAUGES BACK AND FORWARD POINT/ CONTROL ALIGNMENT
CONTROLLO CORSA E PUNTO DI INVERSIONE COMPARATORI





- Digital plug gauge for measuring thread depth up to 3 times the thread diameter
- Electronic module IP67 with preset function, 0,01 reading
- Data output Proximity-USB
- Option for electronic module with Bluetooth

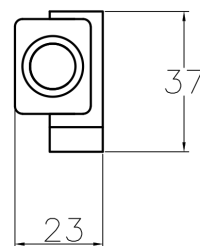
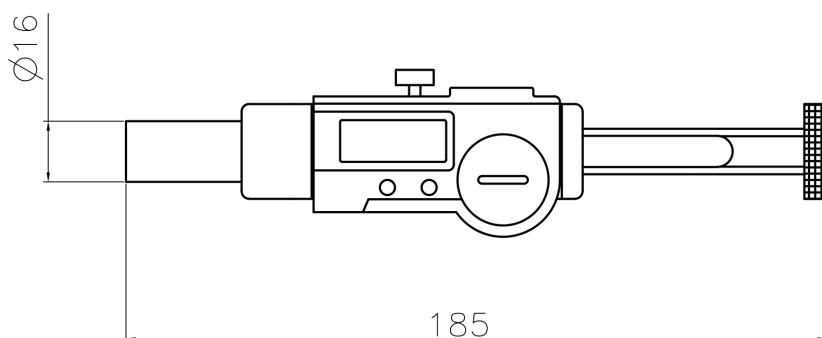
- Calibro a tampone digitale per misurare la profondità dei filetti fino a 3 volte il diametro del filetto
- Elettronica IP67 con funzione di preset, risoluzione 0,01
- Uscita dati Proximity-USB
- Opzione con Elettronica Bluetooth



Article	Code	Kg
DIGI SANTORINI M3	00780	0,218
DIGI SANTORINI M4	00781	0,218
DIGI SANTORINI M5	00782	0,218
DIGI SANTORINI M6	00783	0,218
DIGI SANTORINI M8	00784	0,218
DIGI SANTORINI M10	00785	0,218
DIGI SANTORINI M12	00786	0,218

**Passi speciali a richiesta*

**Special threads on request*



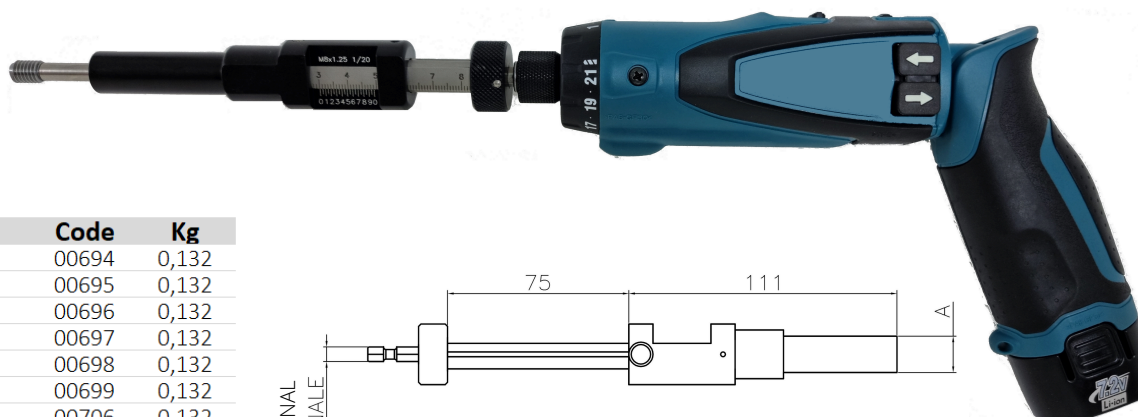


- Analogic plug gauge for measuring depth and thread to go with drill attachment

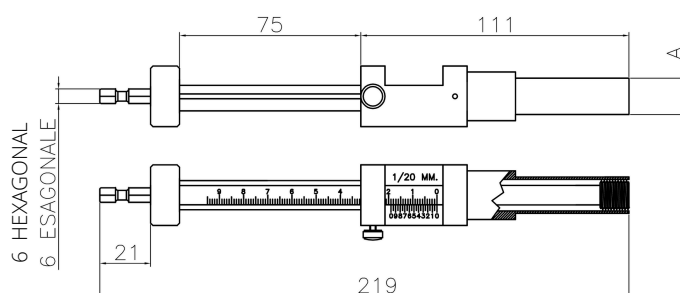
- Calibro a tampone analogico profondità filetti passa con attacco per avvitatore



Article	A	Code	Kg
SANTORINI P/NP M3	Ø 15	00718	0,132
SANTORINI P/NP M4	Ø 15	00719	0,132
SANTORINI P/NP M5	Ø 15	00726	0,132
SANTORINI P/NP M6	Ø 15	00727	0,132
SANTORINI P/NP M8	Ø 15	00728	0,132
SANTORINI P/NP M10	Ø 15	00729	0,132
SANTORINI P/NP M12	Ø 15	00736	0,132
SANTORINI P/NP M14	Ø 20	00737	0,132
SANTORINI P/NP M16	Ø 20	00738	0,132
SANTORINI P/NP M18	Ø 25	00739	0,132
SANTORINI P/NP M20	Ø 25	00741	0,132



Article	A	Code	Kg
SANTORINI M M3	Ø 15	00694	0,132
SANTORINI M M4	Ø 15	00695	0,132
SANTORINI M M5	Ø 15	00696	0,132
SANTORINI M M6	Ø 15	00697	0,132
SANTORINI M M8	Ø 15	00698	0,132
SANTORINI M M10	Ø 15	00699	0,132
SANTORINI M M12	Ø 15	00706	0,132
SANTORINI M M14	Ø 20	00707	0,132
SANTORINI M M16	Ø 20	00708	0,132
SANTORINI M M18	Ø 25	00709	0,132
SANTORINI M M20	Ø 25	00716	0,132



GROOVES CALIPER CALIBRO PER GOLE



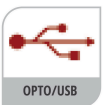
WATER RESISTANT



OPTO/RS232



WOODEN CASE

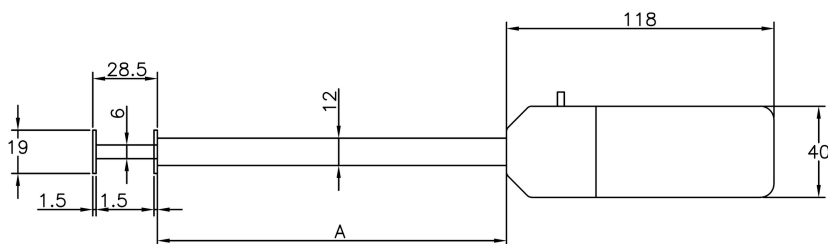
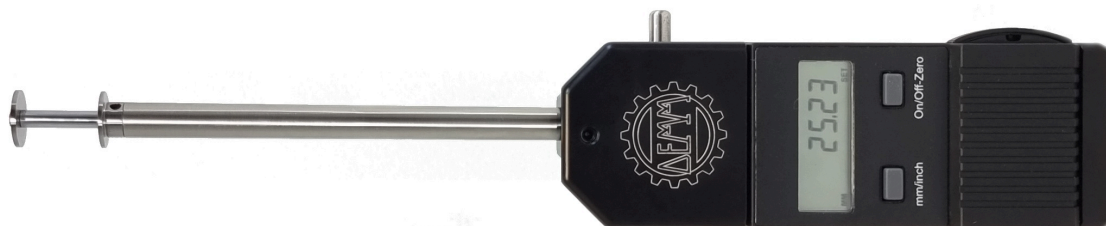


OPTO/USB

PRESET
mm-inch.

- Digital measure instrument for check the width of internal grooves
- Hole mm 20
- Excursion mm 25
- Spring system
- Electronic IP54 prest, reading 0,01

- Strumento digitale per il controllo della larghezza delle gole
- Foro minimo di ingresso mm 20
- Escursione per la misurazione fino a mm 25
- Misurazione con precarica a molla
- Elettronica IP54 con preset, lettura 0,01



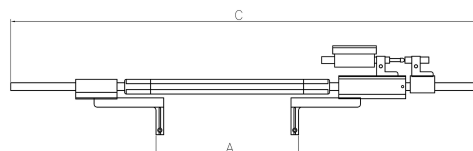
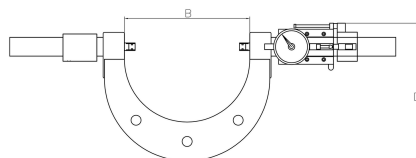
Article	Range mm	A	Resolution	Accuracy	Code	Kg
FEBO 100	0 - 25 MM	100	0.01	0.02	00680	0.500
FEBO 150	0 - 25 MM	150	0.01	0.02	00681	0.600

APPLICATION APPLICAZIONE





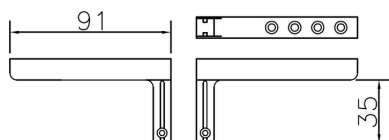
- Carbon fiber light weight with spring system for inside /outside measurements
- Interchangeable jaws and rods with shaft $\varnothing 3,5$
- height adjustable supports for measurements
- Dial gauge shaft $\varnothing 8$
- Supplied with: couple of interchangeable rods art.TS3, supports APM & APF, jaws art.BEC 35L, dial gauge 0.01 $\varnothing 60$
- Calibro a comparazione in fibra di carbonio con precarica per misurazioni interne ed esterne
- Bracci e puntali intercambiabili con attacco $\varnothing 3,5$
- Supporti regolabili in altezza per misurazioni sull'asse richiesto
- Attacco comparatore $\varnothing 8$
- Dotazione standard: coppia terminali intercambiabili TS 3, appoggi APM e APF regolabili in altezza, coppia becche BEC 35L, comparatore $\varnothing 60$ con lettura 0,01 mm



Article	A Range	B	C	D	Repeatability	Code	Kg
ARACNE 200	$\varnothing 170 - 680$	200	620	220	0.002	00670	1,800
ARACNE 270	$\varnothing 240 - 750$	270	690	255	0.002	00684	2,000
ARACNE 320	$\varnothing 290 - 800$	320	740	280	0.002	00685	2,200

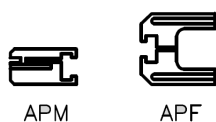
STANDARD EQUIPMENT DOTAZIONE STANDARD

Interchangeable jaws
Coppia bracci intercambiabili



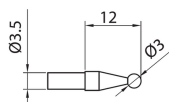
Article	Code	Kg
BEC 35L	00586	0.080

Height adjustable supports
Appoggi regolabili in altezza



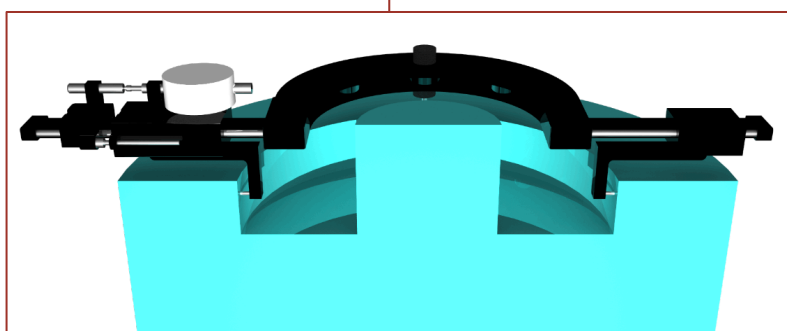
Article	Code	Kg
APM	00587	0.008
APF	00588	0.014

STANDARD EQUIPMENT $\varnothing 3$



For interchangeable rods see pag.134 DEMM catalogue
Per i terminali intercambiabili vedere pag.134 catalogo DEMM

APPLICATION APPLICAZIONE

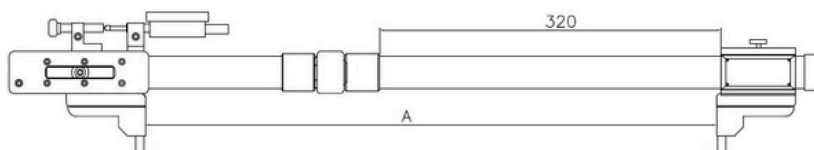


COMPARISON GAUGES CALIBRO A COMPARAZIONE



- Comparison caliper 20 mm of spring system preload push/pull optional inserting extensions useful to increase the measuring range
- Lightweight Carbon Fiber bar
- Supplied with dial gauge 0,01 ϕ 60 mm, pair contacts (TS81660) ϕ 8

- Calibro a comparazione con precarica corsa 20 mm in tiro/spinta sezionabile per l'inserimento di prolunghe per aumentare il campo di misura
- Aste in fibra di carbonio
- Di serie: comparatore 0,01 ϕ 60, coppia di terminali a piattello ϕ 20 (TS81660) con sede ϕ 8



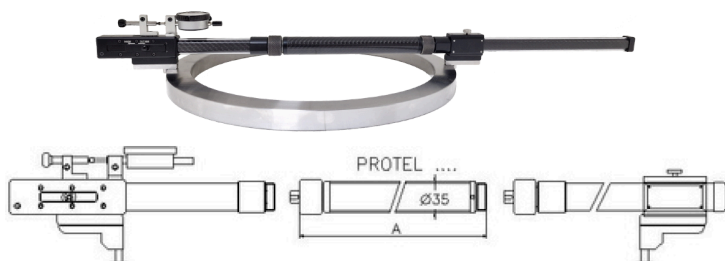
Article	Range	A	Repeteability	Code	Kg
PROTOS 600	250-3000	540	0,01/1000	00772	1,600

OPZIONAL ACCESSORIES PROTOS

ACCESSORI OPZIONALI PROTOS

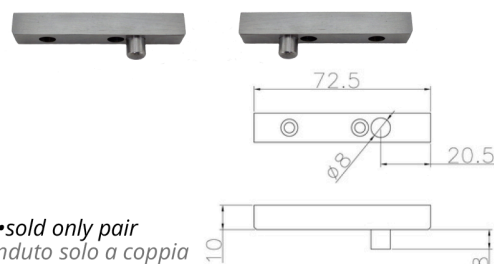
OPZIONAL CALIBRATED EXTENSIONS PROTOS PROLUNGHE CALIBRATE OPZIONALI PROTOS

TASTATORI CON PUNTALE ϕ 8

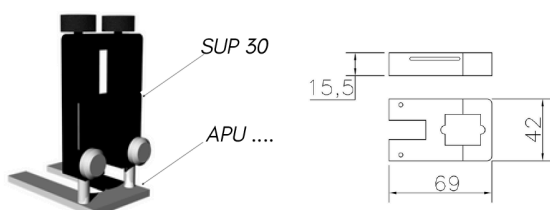


Article	A	Code	Kg
PROTEL 300	300	00773	0,550
PROTEL 500	500	00774	0,650
PROTEL 1000	1000	00775	0,830

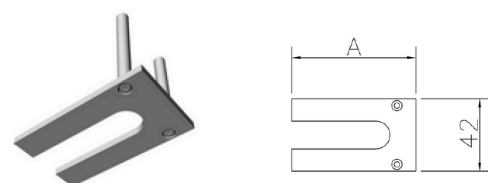
•sold only pair
•venduto solo a coppia



Article	Code	Kg
PROTAST	00776	0,130



Article	Code	Kg
SUP30	00668	0,104



•use only with SUP 30
•utilizzo solo con SUP 30

Article	Code	Kg
APU 70	00665	0,062
APU 120	00666	0,138
APU 160	00667	0,172

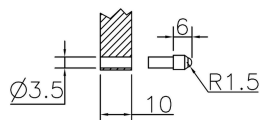


- Comparison gauge for inside / outside measurements
- Lightweight caliper, carbon fiber steel
- Interchangeable rods and jaws
- Double dial gauge positionament (image 1 & 2)
- Supplied with jaws BEC35 and BEC35L; height adjustable supports APM & APF; dial gauge 0,01 $\varnothing$ 60
- Preload range 20 mm
- Calibro a comparazione interno/esterno con precarica
- Corpo in alluminio e asta in carbonio
- Puntali e becche intercambiabili
- Doppio sistema d'attacco comparatore (figura 1 & 2)
- Di serie: becche BEC35 e BEC35L, appoggi APM e APF regolabili in altezza, comparatore $\varnothing$ 60 0,01
- Corsa utile di precarica 20 mm



Fig.1

MINI PLATON I/E 320
WITH UPPER DIAL GAUGE



For interchangeable rods see
pag.134 DEMM catalogue

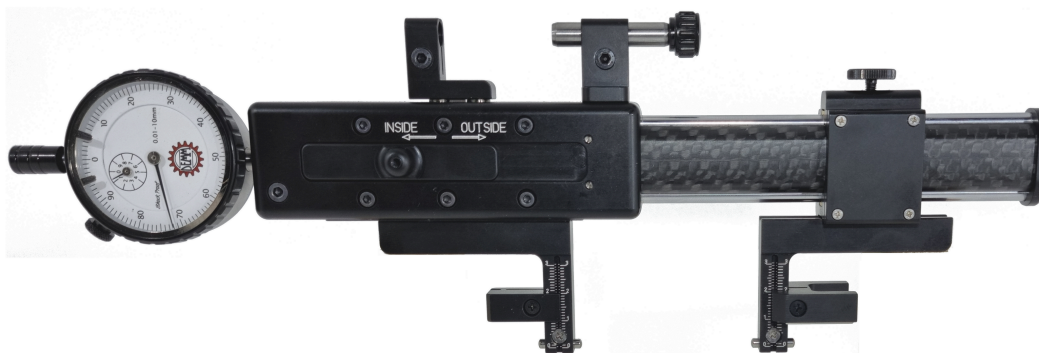
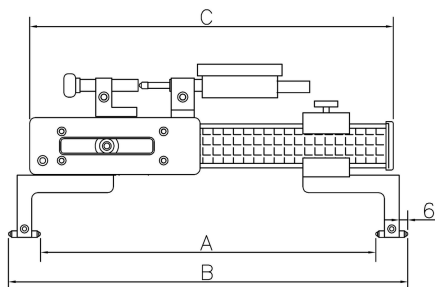


Fig.2

MINI PLATON I/E 320
WITH LATERAL DIAL GAUGE



SEZIONE ASTA IN CARBONIO

Article	A	B	C	Reapetibility	Code	Kg
MINI PLATON I/E 320	0 - 290	32 - 320	265	0,002	00655	0,850
MINI PLATON I/E 500	0 - 470	32 - 500	445	0,002	00656	1,000



- Digital comparison gauge for inside / outside measurements
- Lightweight caliper, carbon fiber steel
- Interchangeable rods and jaws
- Double dial gauge positioning (image 1 & 2)
- Supplied with jaws BEC35 and BEC35L, height adjustable supports and dial gauge 0,01 ϕ 60
- Preload range 20 mm

- Calibro digitale a comparazione interno/esterno con precarica
- Corpo in alluminio e asta in carbonio
- Puntali e becche intercambiabili
- Doppio sistema d'attacco comparatore (figura 1 & 2)
- Di serie: becche BEC35 e BEC35L, appoggi APM e APF regolabili in altezza, comparatore ϕ 60 0,01
- Corsa utile di precarica 20 mm

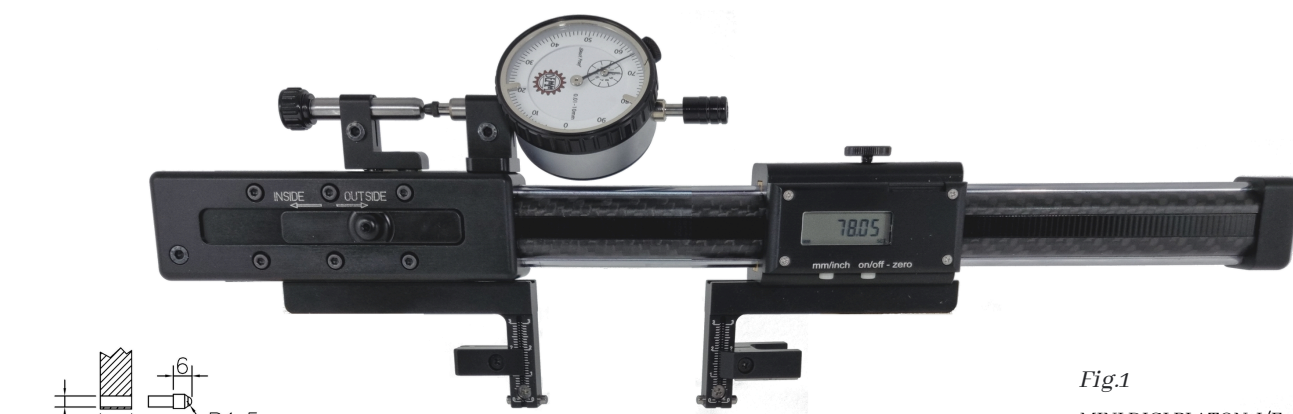


Fig.1

MINI DIGI PLATON I/E 500
WITH UPPER DIAL GAUGE

For interchangeable rods see
pag.134 DEMM catalogue

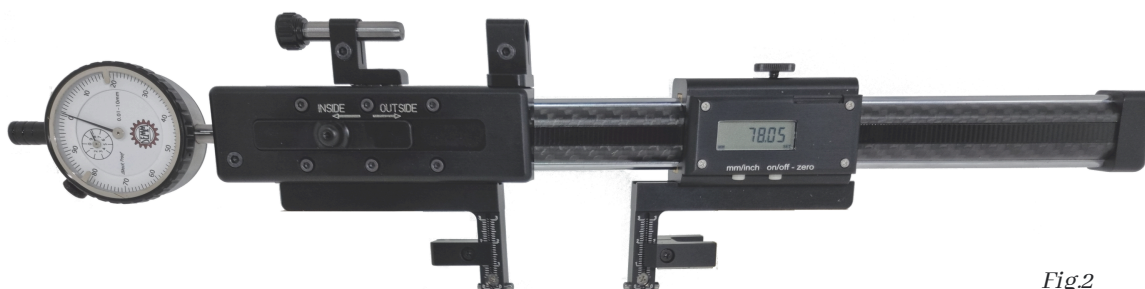
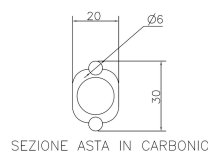
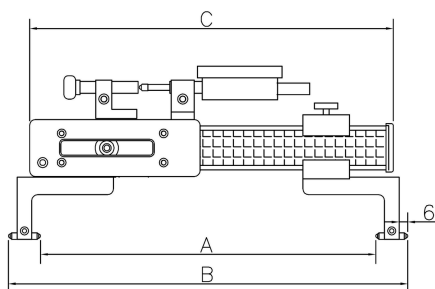


Fig.2

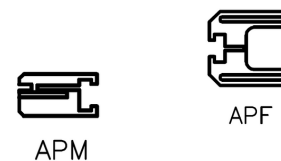
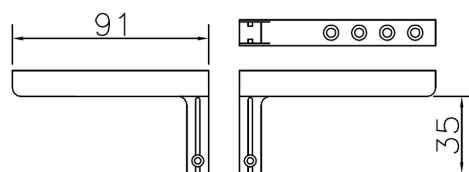
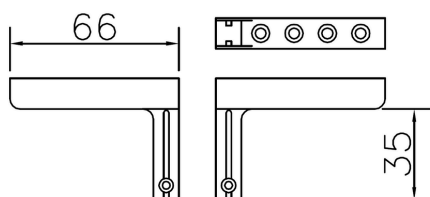
MINI DIGI PLATON I/E 500
WITH LATERAL DIAL GAUGE



SEZIONE ASTA IN CARBONIO

Article	A	B	C	Reapetibility	Code	Kg
MINI DIGI PLATON I/E 320	0 - 290	32 - 320	265	0,002	00686	0,850
MINI DIGI PLATON I/E 500	0 - 470	32 - 500	445	0,002	00687	1,000

STANDARD ACCESSORIES MINI PLATON/MINI DIGI PLATON ACCESSORI DI SERIE MINI PLATON/MINI DIGI PLATON

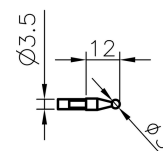
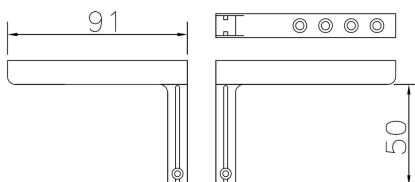
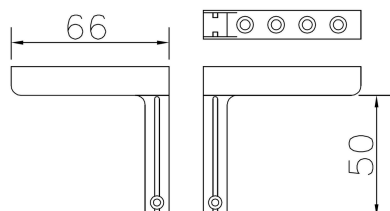


Article	Code	Kg
BEC 35	00657	0,060

Article	Code	Kg
BEC 35L	00658	0,080

Article	Code	Kg
APM	00659	0,008
APF	00660	0,014

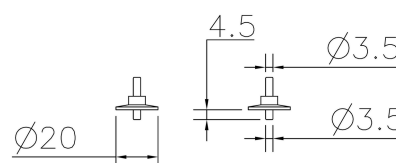
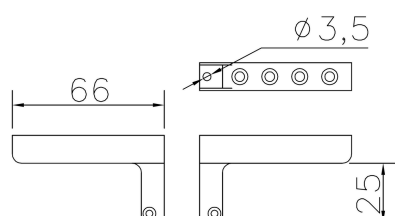
OPTIONAL ACCESSORIES MINI PLATON/MINI DIGI PLATON ACCESSORI OPZIONALI MINI PLATON/MINI DIGI PLATON



Article	Code	Kg
BEC 50	00661	0,068

Article	Code	Kg
BEC 50L	00662	0,088

Article	Code	Kg
TS.....	see page 135 of DEMM catalog	

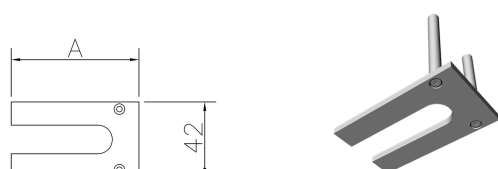


To use pin disc TS AP in vertical positionament
Per utilizzo puntalini in verticale (TS AP)

Article	Code	Kg
BEC VERT	00663	0,060

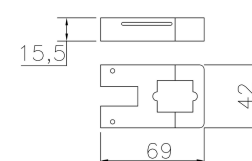
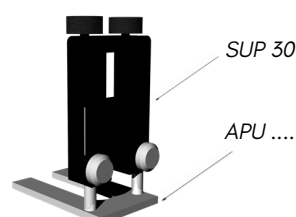
*use only with BEC VERT
*utilizzo solo con BEC VERT

Article	Code	Kg
*TS AP	00664	0,014



•use only with SUP 30
•utilizzo solo con SUP 30

Article	Code	Kg
• APU 70	00665	0,062
• APU 120	00666	0,138
• APU 160	00667	0,172



Article	Code	Kg
SUP 30	00668	0,104

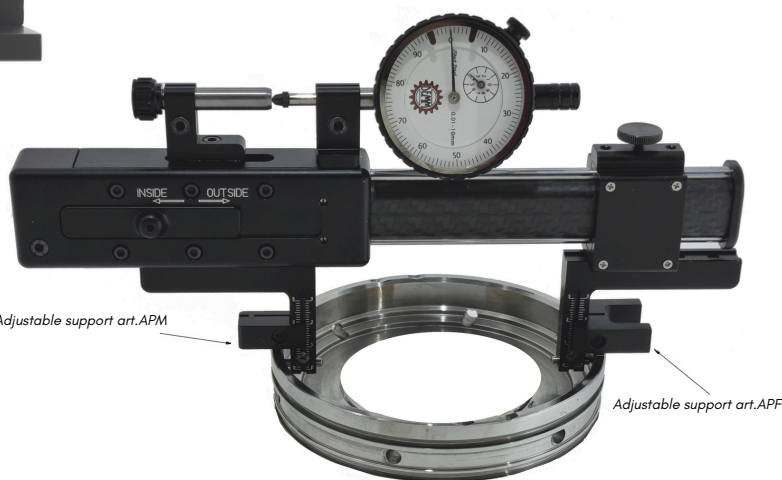


MULTIFUNCTIONAL CALIPER IDEAL FOR PARTICULAR MEASUREMENTS
STRUMENTO INDICATO PER OPERAZIONI DI CONTENUTO INGOMBRO

Internal measurement with standard dotation

Misurazione interni con dotazione standard

Possibility of entering with the instrument in $\emptyset$
Possibilità di entrare con tutto lo strumento in $\emptyset$, per usare bracci corti che non flettono

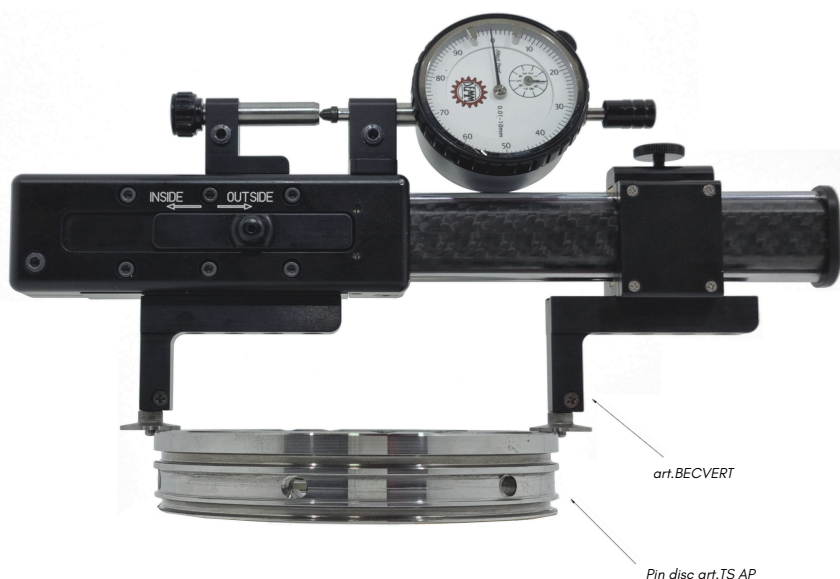


Adjustable support art.APM

Adjustable support art.APF

External measurement with pin disc

Misurazione esterni con puntalini a disco TS AP e perno di riferimento



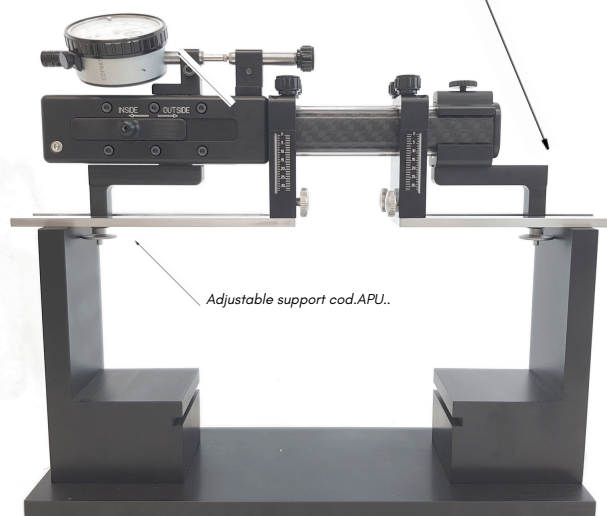
art.BECVERT

Pin disc art.TS AP

Measuring internal by entering with all the instrument in the $\emptyset$, with adjustable supports

Misurazione interno entrando con tutto lo strumento nel $\emptyset$, con utilizzo supporti regolabili in altezza e in linea

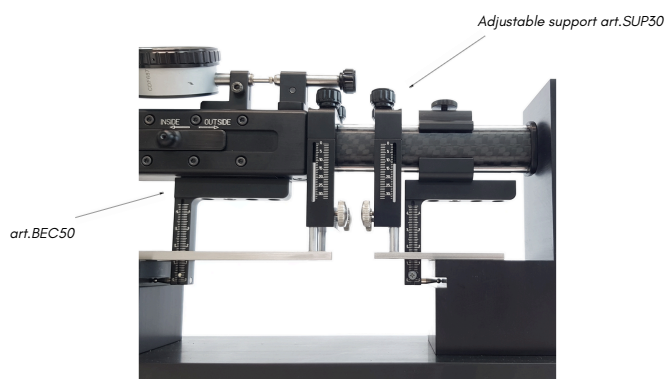
The jaws can be extended beyond the body of the instrument
La becca può fuoriuscire dal corpo dello strumento



Adjustable support cod.APU..

Internal measurement with pin disc + adjustable supports

Misurazione interno con puntali a disco + utilizzo coppia supporti regolabili in altezza e linea



Adjustable support art.SUP30

art.BEC50

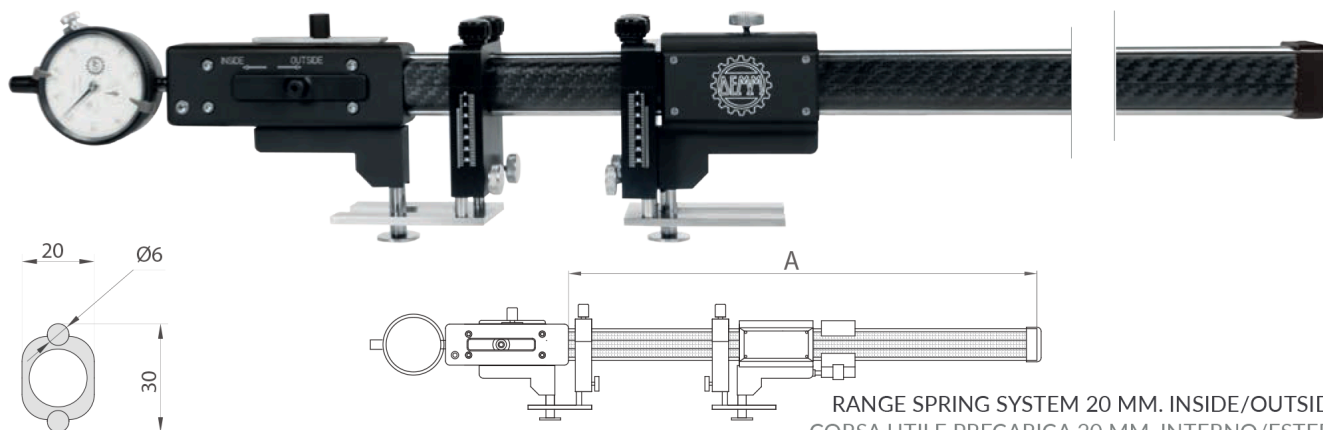
PLATON

Comparative gauge
Calibro a comparazione con precarica

COMPARISON GAUGES CALIBRI A COMPARAZIONE



- Caliper for inside/outside measurement with dial gauge
- Lightweight caliper (Carbon Fiber)
- Interchangeable rods for inside grooves
- Supplied with dial gauge 0,01 Ø 60 mm., adaptor (ADT), pair of disk contacts Ø 20 (TS81660) and height adjustable supports (APP 30)
- Calibro a comparazione interno/esterno con precarica
- Corpo fibra di carbonio
- Puntali e braccetti intercambiabili
- Di serie: comparatore 0,01 Ø 60 mm., adattatore (ADT), coppia contatti a piattello Ø 20 (TS81660) e supporti regolabili in altezza (APP 30)



CARBON BAR SECTION
SEZIONE ASTA IN CARBONIO

RANGE SPRING SYSTEM 20 MM. INSIDE/OUTSIDE
CORSA UTILE PRECARICA 20 MM. INTERNO/ESTERNO

Article	Range	A	Repeatability	Code	Kg
PLATON I/E 300	300	450	0,002	00608	1,100
PLATON I/E 400	400	550	0,002	00850	1,300
PLATON I/E 600	600	750	0,002	00851	1,900
PLATON I/E 800	800	950	0,002	00857	2,400

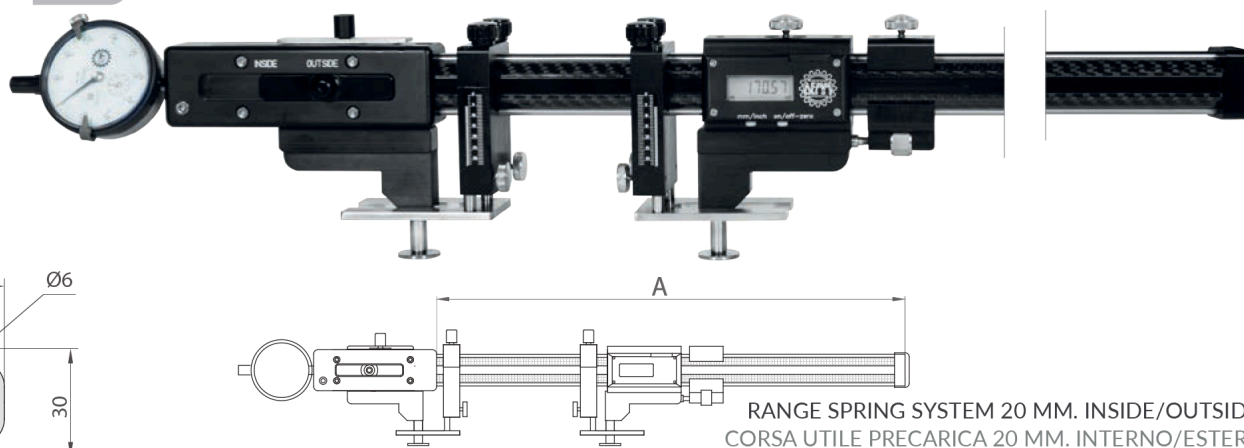
DIGI PLATON

Comparative gauge
Calibro a comparazione con precarica

COMPARISON GAUGES CALIBRI A COMPARAZIONE



- Digital gauge for inside/outside measurement with spring system
- Lightweight caliper (Carbon fiber)
- Supplied with dial gauge 0,01 Ø 60 mm., adaptor (ADT), pair of disk contacts Ø 20 (TS81660) and height adjustable supports (APP 30)
- Calibro digitale interno/esterno con precarica in tiro e spinta
- Corpo fibra di carbonio
- Di serie: comparatore 0,01 Ø 60 mm., adattatore (ADT), coppia contatti a piattello Ø 20 (TS81660) e supporti regolabili in altezza (APP 30)



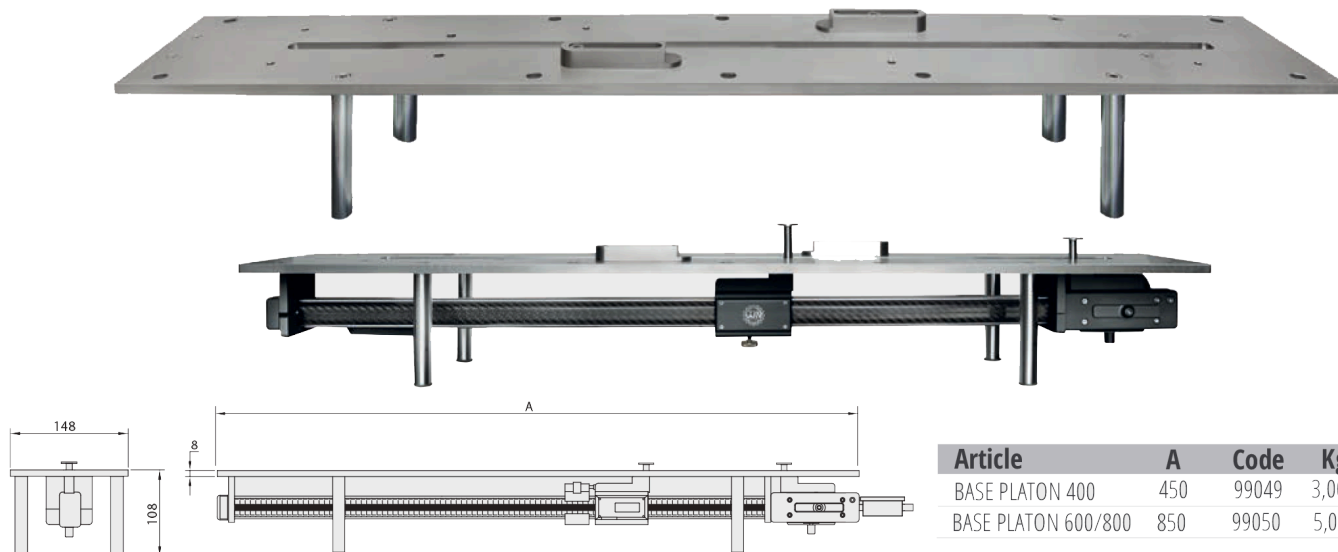
CARBON BAR SECTION
SEZIONE ASTA IN CARBONIO

RANGE SPRING SYSTEM 20 MM. INSIDE/OUTSIDE
CORSA UTILE PRECARICA 20 MM. INTERNO/ESTERNO

Article	Range	A	Repeatability	Accuracy	Code	Kg
DIGI PLATON I/E 300	300	450	0,002	0,02	00609	1,200
DIGI PLATON I/E 400	400	550	0,002	0,02	99040	1,400
DIGI PLATON I/E 600	600	750	0,002	0,02	99041	1,900
DIGI PLATON I/E 800	800	950	0,002	0,02	99047	2,400

BASE PLATON BASE PLATON

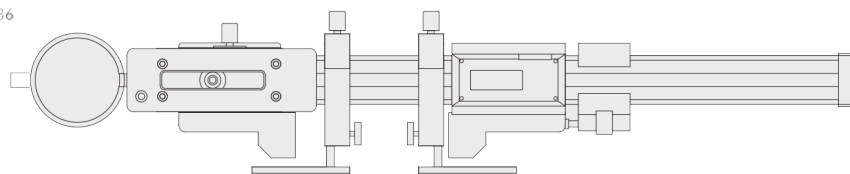
SUPPORT BASEMENT FOR MODELS PLATON E DIGI PLATON 400/600/800
BANCO DI SUPPORTO PER MODELLI PLATON E DIGI PLATON 400/600/800



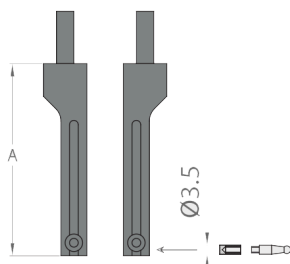
Article	A	Code	Kg
BASE PLATON 400	450	99049	3,000
BASE PLATON 600/800	850	99050	5,000

ACCESSORIES PLATON/DIGI PLATON ACCESSORI PLATON/DIGI PLATON

FOR ALL ACCESSORIES SEE PAG. 136
PER TUTTI GLI ACCESSORI VEDERE PAG. 136



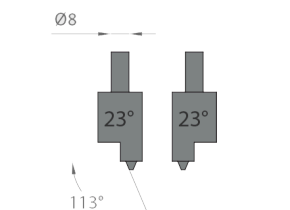
OPTIONAL EQUIPMENT FOR INSIDE/OUTSIDE
DOTAZIONE OPTIONAL PER INTERNO/ESTERNO



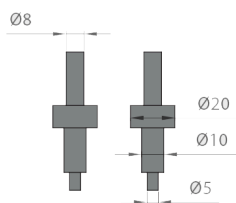
Article	A	Code	Kg
UL	88	00220	0,065
UL 130	103	00220100	0,075
UL 150	123	00220150	0,085

STANDARD EQUIPMENT
DOTAZIONE STANDARD

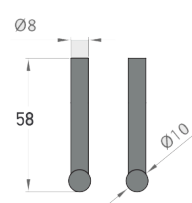
Article	Code	Kg	Per strumento	Article	Code	Kg
APP 30	99080	0,190	Platon - Digi Platon	TS81660	00271	0,070
APP 47	99081	0,220	Big Platon - Big Digi Platon			



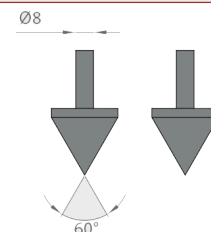
Article	Code	Kg
OR23	201551	0,050



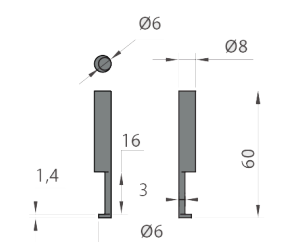
Article	Code	Kg
IE	00228	0,110



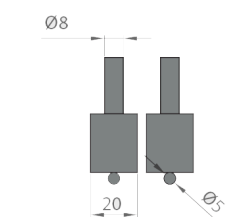
Article	Code	Kg
TS81260	00291	0,090



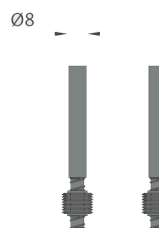
Article	Code	Kg
CN	00225	0,165



Article	Code	Kg
TP8104031	00293	0,080



Article	Code	Kg
TASF5	201550	0,050



Article	Code	Kg
TZ08	00280	0,070
TZ1	00281	0,070
TZ125	00282	0,070
TZ15	00283	0,070
TZ2	00284	0,070
TZ25	00285	0,070
TZ3	00286	0,070
TZ4	00287	0,070
TZ5	00288	0,070
TZ6	00289	0,070

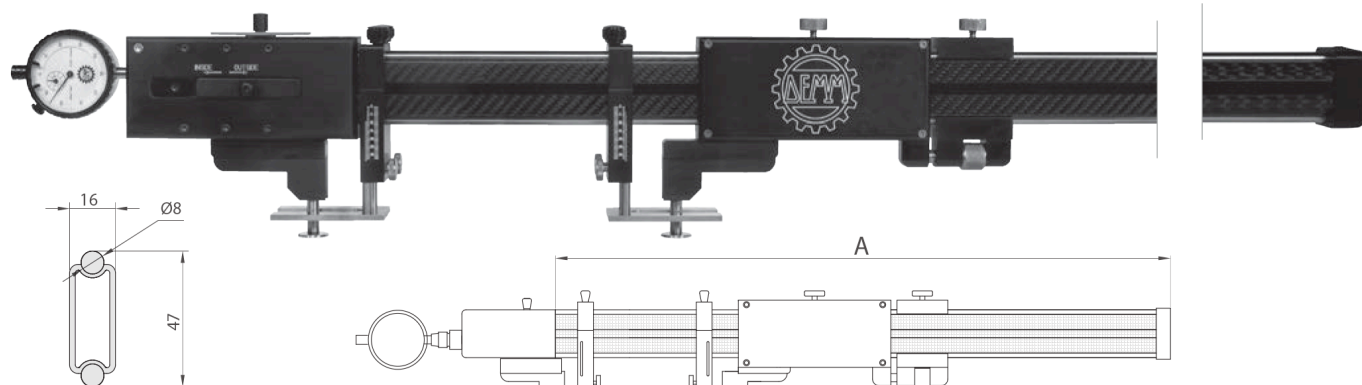
BIG PLATON

Comparative gauge
Calibro a comparazione con precarica

COMPARISON GAUGES CALIBRI A COMPARAZIONE



- Caliper for inside/outside measurement with dial gauge
- Lightweight caliper (Carbon Fiber)
- Supplied with dial gauge 0,01 $\varnothing$ 60 mm, adaptor (ADT), pair of disk contacts $\varnothing$ 20 mm (TS81660) and height adjustable supports (APP 47)
- Calibro a comparazione interno/esterno con precarica
- Corpo fibra di carbonio
- Di serie: comparatore 0,01 $\varnothing$ 60 mm, adattatore (ADT), coppia contatti a piattello $\varnothing$ 20 mm (TS81660) e supporti regolabili in altezza (APP 47)



CARBON BAR SECTION
SEZIONE ASTA IN CARBONIO

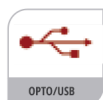
RANGE SPRING SYSTEM 20 MM. INSIDE/OUTSIDE
CORSO UTILE PRECARICA 20 MM. INTERNO/ESTERNO

Article	Range	A	Repeatability	Code	Kg
BIG PLATON I/E 1000	1000	1300	0,002	00852	2,600
BIG PLATON I/E 1500	1500	1800	0,002	00853	3,100
BIG PLATON I/E 2000	2000	2300	0,002	00854	3,600
BIG PLATON I/E 2500	2500	2800	0,002	00855	4,100
BIG PLATON I/E 3000	3000	3300	0,002	00856	4,600

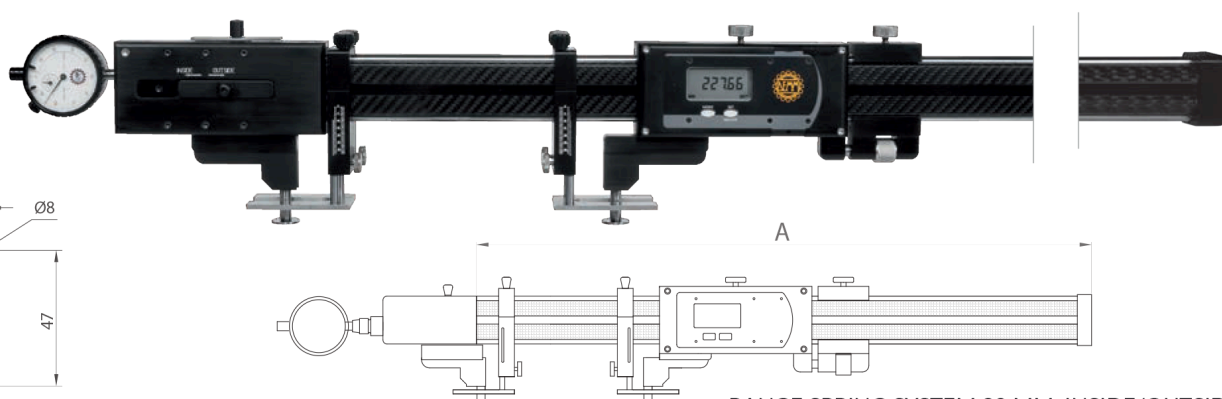
BIG DIGI PLATON

Comparative gauge
Calibro a comparazione con precarica

COMPARISON GAUGES CALIBRI A COMPARAZIONE



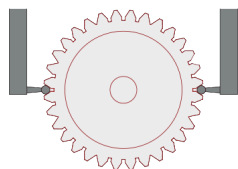
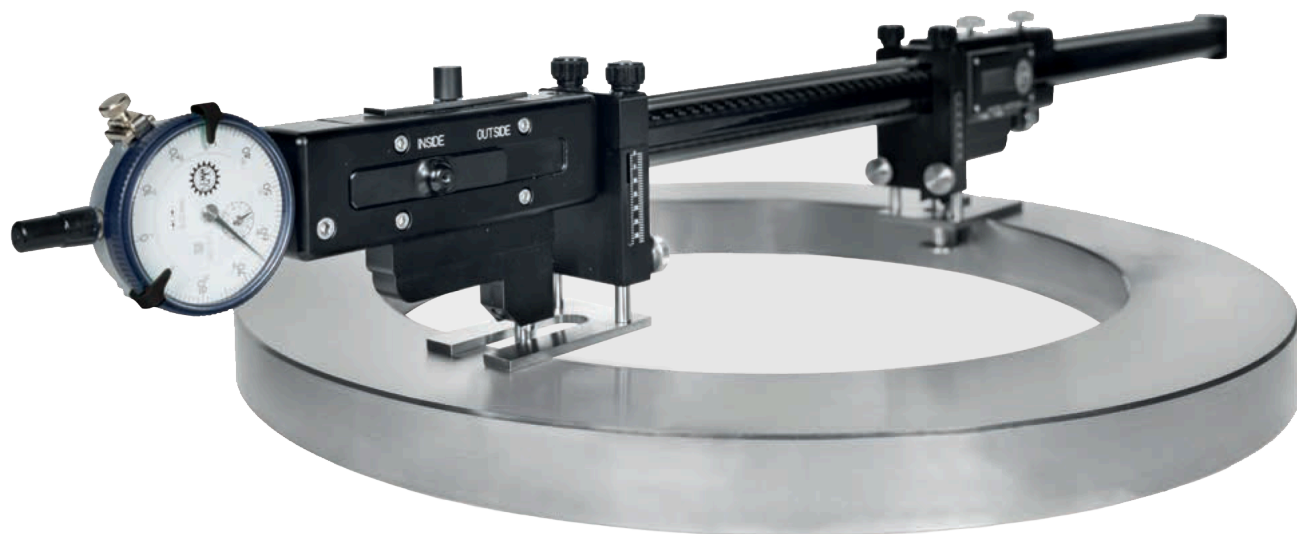
- Caliper for inside/outside measurement with dial gauge
- Lightweight caliper (Carbon Fiber)
- Supplied with dial gauge 0,01 $\varnothing$ 60 mm, adaptor (ADT), pair of disk contacts $\varnothing$ 20 mm (TS81660) and height adjustable supports (APP 47)
- Calibro a comparazione interno/esterno con precarica
- Corpo fibra di carbonio
- Di serie: comparatore 0,01 $\varnothing$ 60 mm, adattatore (ADT), coppia contatti a piattello $\varnothing$ 20 mm (TS81660) e supporti regolabili in altezza (APP 47)



CARBON BAR SECTION
SEZIONE ASTA IN CARBONIO

RANGE SPRING SYSTEM 20 MM. INSIDE/OUTSIDE
CORSO UTILE PRECARICA 20 MM. INTERNO/ESTERNO

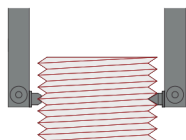
Article	Range	A	Repeatability	Accuracy	Code	Kg
BIG DIGI PLATON I/E 1000	1000	1300	0,002	0,02	99042	2,600
BIG DIGI PLATON I/E 1500	1500	1800	0,002	0,02	99043	3,100
BIG DIGI PLATON I/E 2000	2000	2300	0,002	0,02	99044	3,600
BIG DIGI PLATON I/E 2500	2500	2800	0,002	0,02	99045	4,100
BIG DIGI PLATON I/E 3000	3000	3300	0,002	0,02	99046	4,600



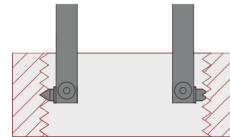
GEAR TOOTH OUTSIDE
CONTROLLO DENTATURE ESTERNE



GEAR TOOTH INSIDE
CONTROLLO DENTATURE INTERNE



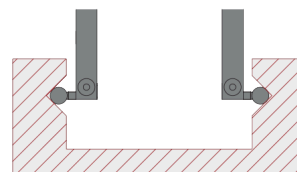
THREAD OUTSIDE
CONTROLLO FILETTATURE ESTERNE



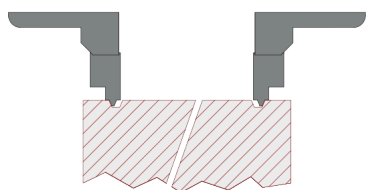
THREAD INSIDE
CONTROLLO FILETTATURE INTERNE



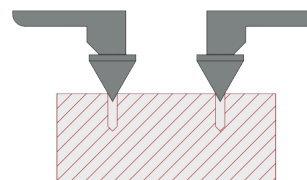
SLOTS AND RECESSES OUTSIDE
CONTROLLO GUIDE A "V" ESTERNE



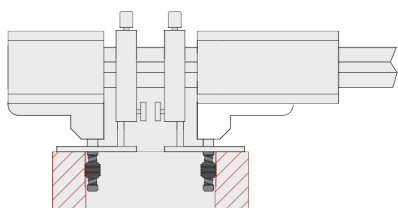
SLOTS AND RECESSES INSIDE
CONTROLLO GUIDE A "V" INTERNE



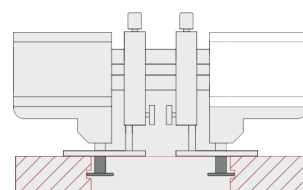
DIAMETER ORING 23°
CONTROLLO DIAMETRI ORING 23°



HOLE CENTRE DISTANCE
CONTROLLO INTERASSI FORI



THREAD INSIDE/OUTSIDE WITH SUPPORT
CONTROLLO FILETTATURE
INTERNE ED ESTERNE CON APPOGGI



GROOVE INSIDE/OUTSIDE WITH SUPPORT
CONTROLLO DIAMETRI E GOLE
INTERNE ED ESTERNE CON APPOGGI

COMPARISON GAUGES CALIBRI A COMPARAZIONE



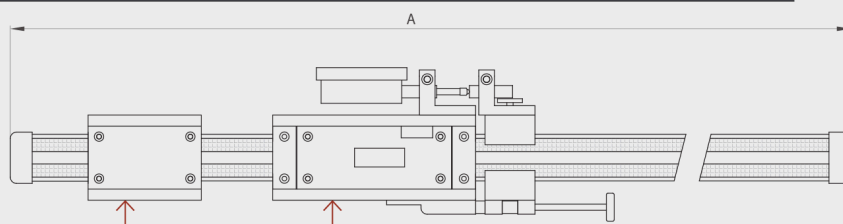
- Caliper for inside/outside measurement
- Interchangeable rods
- Sliding bearing system
- Spring system
- Supplied with dial gauge 0,01 Ø 60 mm., adaptor (ADT), pair of disk contacts Ø 20 (TS81660) and height adjustable supports (APP 30)

- Calibro a comparazione interno/esterno
- Puntali e braccetti intercambiabili
- Sistema di scorrimento su cuscinetti
- Precarica a molla
- Di serie comparatore 0,01 Ø 60 mm., adattatore (ADT), coppia contatti a piattello Ø 20 (TS81660) e supporti regolabili in altezza (APP 30)

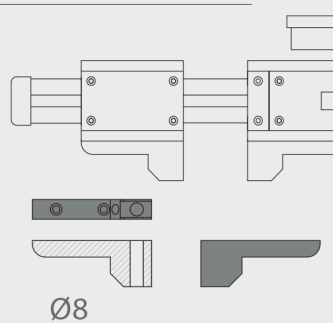


Article	Range	A	Repeatability	Accuracy	Bar section	Code	Kg
DIGI PEGASO P 400	400	700	0,002	0,02	30x20	99000	2,000
DIGI PEGASO P 600	600	900	0,002	0,02	30x20	99003	2,400
DIGI PEGASO P 800	800	1100	0,003	0,02	30x20	99004	2,800

ACCESSORIES PEGASO/PLATON/DIGI PLATON ACCESSORI PEGASO/PLATON/DIGI PLATON



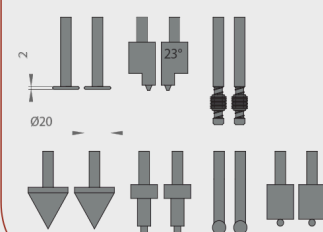
STANDARD EQUIPMENT DOTAZIONE STANDARD



ADAPTER FOR PROBES WITH FASTENING Ø8 ADATTATORE TASTATORI Ø8

Article	Code	Kg
ADT	00270	0,026

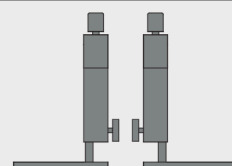
Contacts - Accessories Tastatori Ø8



JAWS BULL Ø3,5 BECCHIE BULL Ø3,5

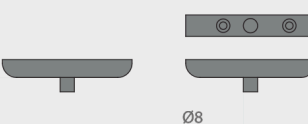
Article	B	C	D	Codice	Kg
BULL 70	70	50	10	99900	0,048
BULL 100	100	80	12	99902	0,053
BULL 125	125	105	12	99904	0,058
BULL 150	150	130	12	99905	0,062

STANDARD EQUIPMENT DOTAZIONE STANDARD



SUPPORT ADJUSTABLE APPOGGI REGOLABILI APP 30

Article	Code	Kg
APP 30	99080	0,190



PROBES Ø8 TASTATORE TAS 8 Ø8

Article	Code	Kg
TAS 8	99090	0,048

Contacts Ø3,5 Terminali Ø3,5



Rods with calibrated spheres Terminali con sfere calibrate



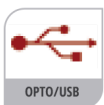
Rods for threads Terminali per filettature



BIG DIGI PEGASO P

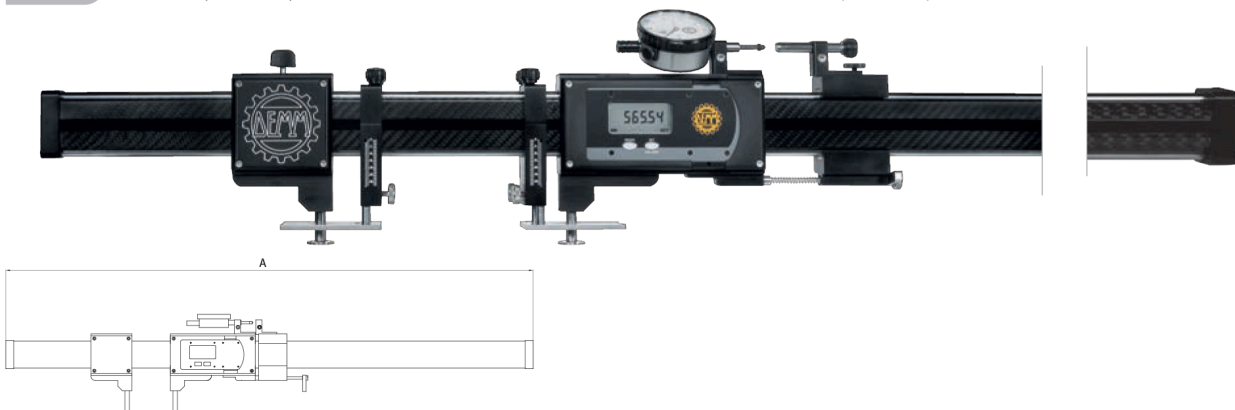
Comparative gauge
Calibro a comparazione con precarica

COMPARISON GAUGES CALIBRI A COMPARAZIONE



- Caliper for inside/outside measurement
- Interchangeable rods
- Sliding bearing system
- Spring system
- Supplied with dial gauge 0,01 Ø 60 mm., adaptor (ADT), pair of disk contacts Ø 20 (TS81660) and height adjustable supports (APP 30)

- Calibro a comparazione interno/esterno
- Puntali e braccetti intercambiabili
- Sistema di scorrimento su cuscinetti
- Precarica a molla
- Di serie comparatore 0,01 Ø 60 mm., adattatore (ADT), coppia contatti a piattello Ø 20 (TS81660) e supporti regolabili in altezza (APP 30)



Article	Range	A	Repeatability	Accuracy	Bar section	Code	Kg
BIG DIGI PEGASO P 1000	1000	1340	0,004	0,03	47x17	00546	3,460
BIG DIGI PEGASO P 1500	1500	1840	0,008	0,05	47x17	00547	4,070
BIG DIGI PEGASO P 2000	2000	2340	0,010	0,06	47x17	00548	4,680
BIG DIGI PEGASO P 2500	2500	2840	0,013	0,07	47x17	00549	5,290
BIG DIGI PEGASO P 3000	3000	3340	0,015	0,08	47x17	00551	5,900

GEA

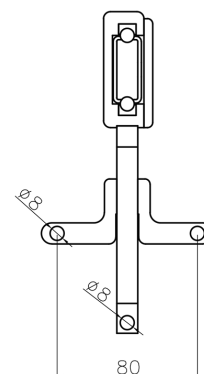
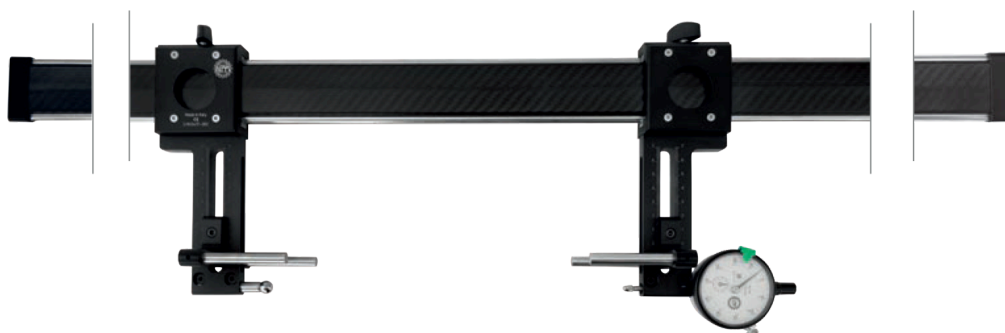
Comparative gauge for internal/external measurement
Calibro a comparazione per misurazioni interno/esterno

COMPARISON GAUGES CALIBRI A COMPARAZIONE



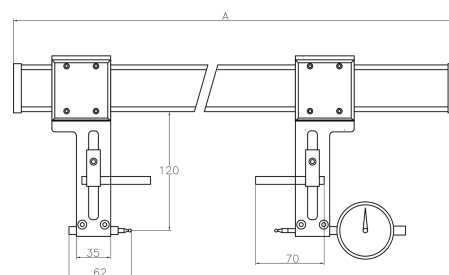
- Lightweight caliper, bar in carbon fiber and guides in chromed steel
- Double sliding gauge
- Height adjust supports
- Contacts with hole Ø 8
- Adaptor Ø8 for interchangeable contacts M2.5
- One jaw/to set a dial gauge Ø8
- Dial gauge not included

- Corpo fibra di carbonio rinforzato e guida in acciaio cromato
- Doppio carrello mobile
- Supporti regolabili in altezza
- Becche con foro Ø8
- Adattatore Ø 8 per terminali intercambiabili M2.5
- Una becca porta comparatore; sede Ø8
- Comparatore non compreso



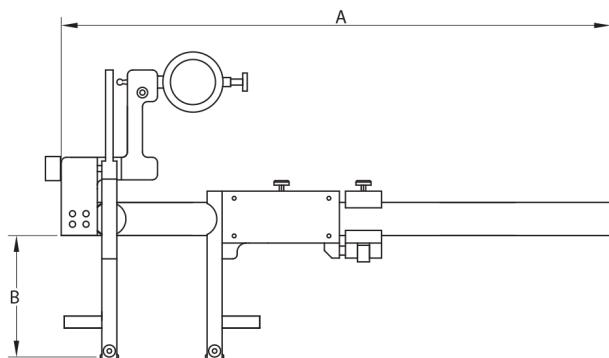
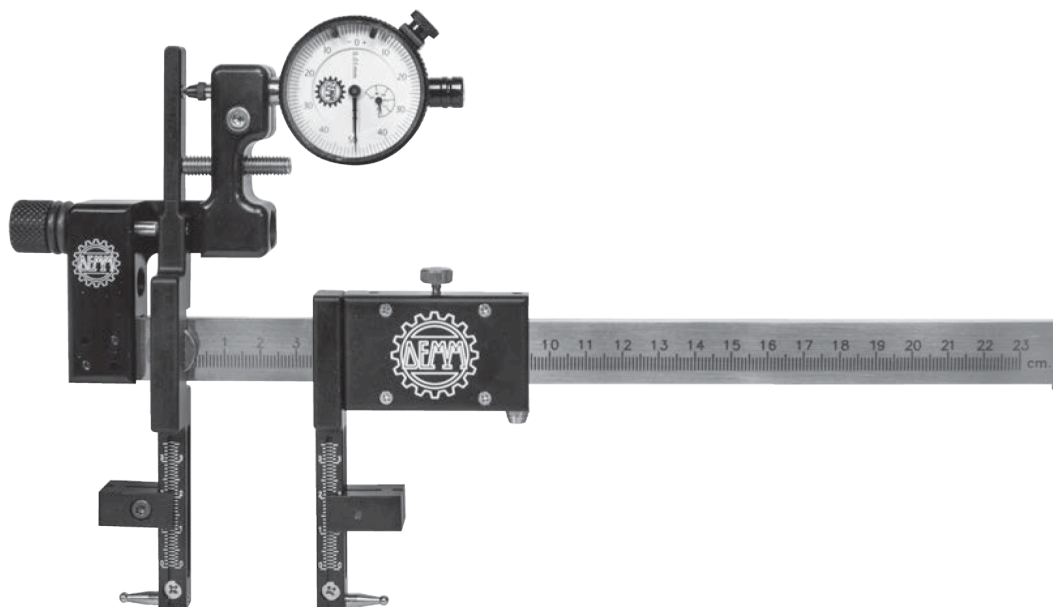
Article	Range	A	Sez. Asta	Repeatability	Code	Kg
GEA 600	600	850	40X13	0,01	00071	1,250
GEA 1000	1000	1250	40X13	0,01	00072	1,500
GEA 1500	1500	1750	40X13	0,02	00073	1,800

Article	Range	A	Sez. Asta	Repeatability	Code	Kg
BIG GEA 2000	2000	2300	47X16	0,02	00206	3,700
BIG GEA 2500	2500	2800	47X16	0,03	00207	4,300
BIG GEA 3000	3000	3300	47X16	0,03	00208	4,900

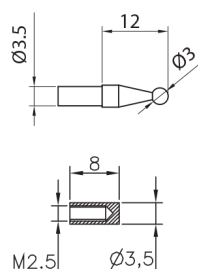




- Caliper for inside/outside measurement with dial gauge
- Lightweight caliper, in hardened stainless steel
- Easy to operate
- Interchangeable rods for inside grooves
- Supplied with dial gauge 0,01 $\varnothing$ 40 mm and couple of interchangeable rods article TS 3
- Calibro a comparazione interno/esterno
- Corpo lega leggera, asta acciaio inox tempré
- Di facile utilizzo
- Puntali intercambiabili per gole e filetti
- Di serie comparatore 0,01 $\varnothing$ 40 mm e coppia terminali intercambiabili articolo TS 3



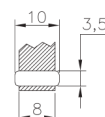
STANDARD EQUIPMENT INTERCHANGEABLE RODS $\varnothing 3$
COPIA DI TERMINALI A SFERA $\varnothing 3$ IN DOTAZIONE



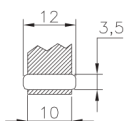
Article	Code
TS3	02030

Article	Code
BAR60	02000

Article	Range	A	B	Bar Section	Resolution	Accuracy	Code	Kg
BASCOM 200/60	I 20 - 200	280	55	18 X 4	0,01	0,02	11062S	0,420
	E 0 - 138	280	62	18 X 4	0,01	0,02		



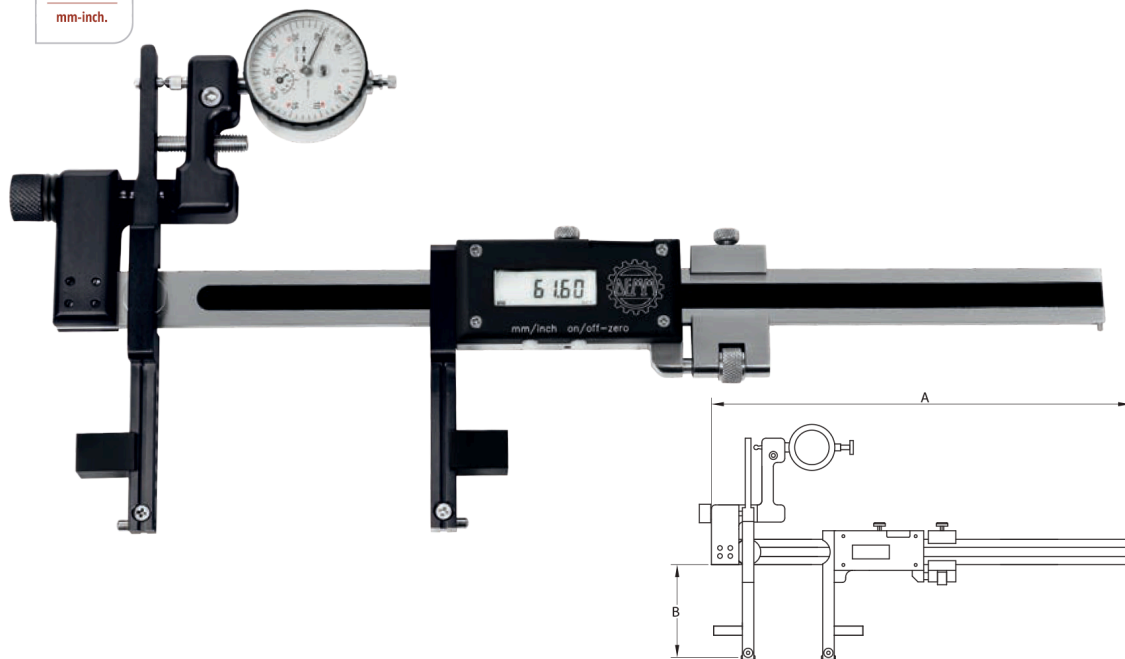
Article	Range	A	B	Bar Section	Resolution	Accuracy	Code	Kg
BASCOM 300/80	I 24 - 300	435	75	22 x 5	0,01	0,02	11083A	0,950
	E 0 - 230	435	80	22 x 5	0,01	0,02		
BASCOM 500/80	I 24 - 500	635	75	22 x 5	0,01	0,03	11085S	1,150
	E 0 - 430	635	80	22 x 5	0,01	0,03		



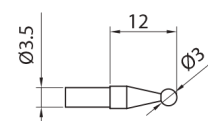
COMPARISON GAUGES CALIBRI A COMPARAZIONE



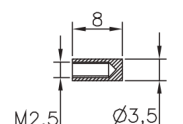
- Caliper for inside/outside measurement with dial gauge
- Lightweight caliper, in hardened stainless steel
- Easy to operate
- Interchangeable rods for inside grooves
- Supplied with dial gauge 0,01 $\varnothing$ 40 mm and couple of interchangeable rods article TS 3
- Calibro a comparazione interno/esterno
- Corpo lega leggera, asta acciaio inox tempre
- Di facile utilizzo
- Puntali intercambiabili per gole e filetti
- Di serie comparatore 0,01 $\varnothing$ 40 mm e coppia terminali intercambiabili articolo TS 3



STANDARD EQUIPMENT $\varnothing$ 3
COPPIA DI TERMINALI A
SFERA $\varnothing$ 3 IN DOTAZIONE

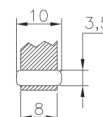


Article	Code
TS3	02030

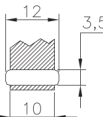


Article	Code
BAR60	02000

Article	Range	A	B	Bar Section	Resolution	Accuracy	Code	Kg
DIGI BASCOM 200/60	I 20 - 200	325	55	18 X 4	0,01	0,02	11062	0,600
	E 0 - 138	325	62	18 X 4	0,01	0,02		

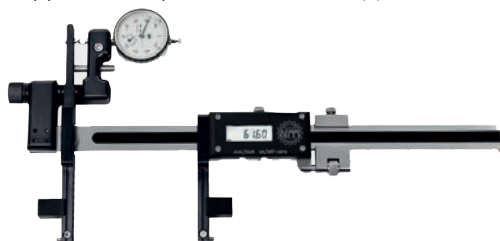


Article	Range	A	B	Bar Section	Resolution	Accuracy	Code	Kg
DIGI BASCOM 300/80	I 24 - 300	435	75	22 x 5	0,01	0,02	11083	0,950
	E 0 - 230	435	80	22 x 5	0,01	0,02		
DIGI BASCOM 500/80	I 24 - 500	635	75	22 x 5	0,01	0,03	11085	1,150
	E 0 - 430	635	80	22 x 5	0,01	0,03		

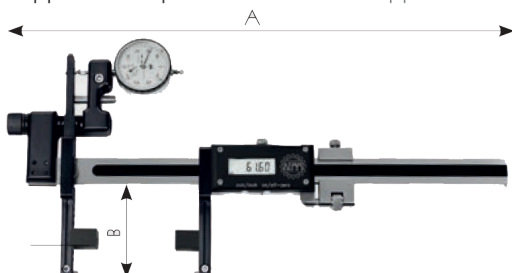


APPLICAZIONI APPLICATIONS

Applicazione per interni Inside application



Applicazione per esterni Outside application



Esempio di applicazione Example of application





Your Everyday Partner

Kinds and Symbols of Geometrical Tolerances

Kind of tolerance	Symbol	Definition of tolerance zone	Examples of diagrammatical indication and its interpretation
Form tolerance	Straightness tolerance	Where symbol ϕ is attached before the numerical value indicating a tolerance zone, this tolerance zone is a zone in a cylinder of diameter t .	Where a tolerance frame is connected to the dimension showing the diameter of a cylinder, the axis of the cylinder shall be contained a cylinder of 0.08mm diameter.
	Flatness tolerance	The tolerance zone is a zone held between two parallel planes a distance t apart.	This surface shall be contained between two parallel planes 0.08mm apart.
	Circularity tolerance	The tolerance zone in the considered plane is a zone between two concentric circles a distance t apart.	The circumference in any section normal to the axis shall be contained between two concentric circles 0.1mm apart on the same plane.
	Cylindricity tolerance	The tolerance zone is a zone contained between two coaxial cylinder surfaces a distance t apart.	The considered surface shall be contained between two coaxial cylinder surfaces 0.1mm apart.
	Profile tolerance of line	The tolerance zone is a zone held between two lines enveloping circles of diameter t , the centers of which are situated on a theoretically exact profile line.	In any cross-section parallel to the projection plane the considered profile shall be contained between two lines enveloping circles of 0.04mm in diameter, the centers of which are situated on a line having the theoretically exact profile.
	Profile tolerance of surface	The tolerance zone is a zone held between the two surfaces enveloping the spheres of diameter t , the centers of which are situated on a theoretically exact profile surface.	The considered surface shall be contained between two surfaces enveloping the spheres of diameter 0.02mm, the centers of which are situated on a surface having the theoretically exact profile.
Orientation tolerance	Parallelism tolerance	The tolerance zone is a zone held between two parallel planes parallel to the datum plane and a distance t apart from each other.	The surface shown by the arrow of the leader line shall be contained between two planes parallel to the datum plane A and 0.01mm apart from each other in the direction of the arrow of the leader line.
	Perpendicularity tolerance	Where symbol ϕ is attached before the numerical value indicating the tolerance, the tolerance zone is a zone within a cylinder of diameter t perpendicular to the datum plane.	The axis of the cylinder shown by the arrow of the leader line shall be contained within a cylinder of diameter 0.01mm perpendicular to the datum plane A.
	Angularity tolerance	The tolerance zone is a zone held between two parallel planes inclined at the specified angle to the datum plane and a distance t apart from each other.	The surface shown by the arrow of the leader line shall be contained between two parallel planes which are inclined at 40° with theoretical exactness to the datum plane A and which are 0.08mm apart from each other in the direction of the arrow of the leader line.
Location tolerance	Positional tolerance	The tolerance zone is a zone within a circle or sphere of diameter t having its center at the theoretically exact location, hereinafter referred to as the "true location".	The point shown by the arrow of the leader line shall be contained within a circle of 0.03mm diameter having its center at the true location 60mm and 100mm apart, respectively from the datum straight line A and from the datum straight line B.
	Coaxiality tolerance or concentricity tolerance	Where symbol ϕ is attached before the numerical value indicating the tolerance, the tolerance zone is a zone within a cylinder of diameter t whose axis agrees with the datum axial straight line.	The axis shown by the arrow of the leader line shall be contained within a cylinder of 0.01mm diameter whose axis agrees with the datum axial straight line A.
	Symmetry tolerance	The tolerance zone is a zone held between two parallel planes a distance t apart from each other and arranged symmetrically about the datum median plane.	The median surface shown by the arrow of the leader line shall be contained between two parallel planes 0.08mm apart from each other and arranged symmetrically about the datum median plane A.
Run-out tolerance	Circular run-out tolerance	The tolerance is a zone between two concentric circles whose centers agree with the datum axial straight line on any measuring plane normal to the datum axial straight line and which are a distance t apart from each other in the radial direction.	The run-out in the radial direction of the cylinder surface shown by the arrow of the leader line shall not exceed 0.1mm on any measuring plane normal to the datum axial straight line when the cylinder is rotated by one rotation about the datum axial straight line A-B.
	Total run-out tolerance	The tolerance zone is a zone between two coaxial cylinders having axes agreeing with the datum axial straight line and a distance t apart from each other in the radial direction.	The total radial run-out of the cylinder surface shown by the arrow of the leader line shall not exceed 0.1mm at any point on the cylinder surface when the cylinder part is rotated about the datum axial straight line A-B with a relative movement in the axial direction.

Lines used in the drawings in the column of "definition of tolerance zone" indicate the following meanings :

Thick solid line or broken line: Feature

Thick alternate long and short dash line: Datum

Thin solid line or broken line: Tolerance zone

Thin alternate long and short dash line: Center line

Thin alternate long and two short dashes line: Supplementary projection plane or sectional plane

Thick alternate long and two short dashes line: Projection of a feature to supplementary Projection plane or sectional plane

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