

MEASURING TOOLS
Measuring Tapes



ALN 0001

Measuring Tapes (Steel Cover)

Code	Blade Length		Blade Width	
	Feet	Meters	Inches	mm
1	25	8	1	25
2	16	5	3/4	19
3	12	3.5	1/2	13
4	10	3	1/2	13



ALN 0002

Measuring Tape

Code	Blade Length		Blade Width	
	Feet	Meters	Inches	mm
1	25	8	1	25
2	16	5	3/4	19
3	12	3.5	1/2	13
4	10	3	1/2	13



ALN 0003

Fiberglass Long Tapes

Code	Blade Length		Blade Width
	Feet	Meters	Inches
1	100	30	1/2
2	200	60	1/2



ALN 0004

Steel Long Tapes

Code	Blade Length		Blade Width
	Feet	Meters	Inches
1	50	15	3/8
2	100	30	3/8



ALN 0005

Fiberglass Long Tapes

Code	Blade Length		Blade Width
	Feet	Meters	Inches
1	50	15	1/2
2	100	30	1/2
3	165	50	1/2



ALN 0006

Length - 3.5m (1)
5m (2)
7.5m (3)

Measuring Tape



ALN 0007
Length - 20m (1)
30m (2)
50m (3)

Steel / Fibre Glass Measuring Tape



ALN 0008
Length - 10m (1)
15m (2)
20m (3)
30m (4)
50m (5)
100m (6)

Steel / Nylon Measuring Tape

“YAMAYO” STILON REEL, NYLON COATED STEEL TAPE MEASURE



STILON REEL 20-50M (ABS Open Reel)
ALN 0009

NR 20 (1) NR 30 (2) NR 50 (3)

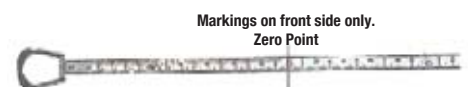
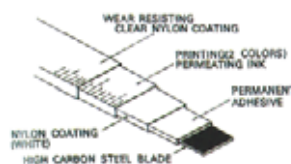
Yamayo invented and developed nylon-coated steel tape in 1966, first in the world. The 0.5mm thickness and 10mm width tape is made of tough and flexible steel core to ensure consistent accuracy and strength. Nylon coating protects against rust, corrosion and abrasion. All markings are printed with special permeating ink, resistant to abrasion. Standard tension 5kgf (50N). Suitable for underwater measurement, harbour construction and civil engineering.

Max. Cutting Capacity		
Code	Model No	Length (m)
ALN 0009-1	STILON REEL NR 20	20
ALN 0009-2	STILON REEL NR 30	30
ALN 0009-3	STILON REEL NR 50	50
ALN 0010	STILON REEL NR 100 (metal reel)	100



STILON REEL 100M (Metal Open Reel) NR 100
ALN 0010

NR 100



Markings on front side only.
Zero Point

MEASURING TOOLS
“YAMAYO” PVC COATED FIBERGLASS TAPE MEASURE



MCT 20 (1) MCT 30 (2) MCT 50 (3)



MCT 20 (1) MCT 30 (2) MCT 50 (3)



OTR 30 (1) OTR 50 (2) OTR 100 (3)

12.5mm wide, 0.45mm thick narrow tape for stabilized measurement with less wind pressure. Standard tension 2kgf (20N). High electric insulation, excellent water, thermal and chemical resistance. All have rigid ABS resin cases.

Max. Cutting Capacity		
Code	Model No	Length (m)
ALN 0011-1	MILLION 12 CUSTOM MCT 20	20M
ALN 0011-2	MILLION 12 CUSTOM MCT 30	30M
ALN 0011-3	MILLION 12 CUSTOM MCT 50	50M
ALN 0012-1	MILLION 12 REEL MCT 20	20M
ALN 0012-2	MILLION 12 REEL MCT 30	30M
ALN 0012-3	MILLION 12 REEL MCT 50	50M
ALN 0013-1	MILLION 12 OPEN REEL OTR 30	30M
ALN 0013-2	MILLION 12 OPEN REEL OTR 50	50M
ALN 0013-3	MILLION 12 OPEN REEL OTR 100	100M



EASY TO CLEAN



SUPERIOR DURABILITY

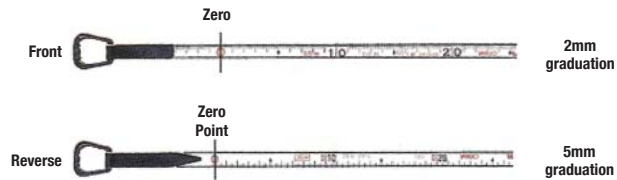


WEATHER RESISTANT



NON-DUCTIVE

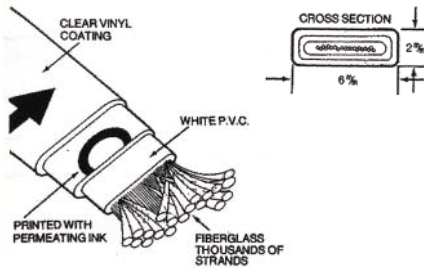
Metric/Metric on both sides (Front and Reverse)



“YAMAYO” PVC COATED FIBERGLASS MILLION MEASUREMENT ROPE



MSR 30 (1) MSR 50 (2) MSR 100 (3)



6mm width, 2mm thickness, standard tension 2kgf (20N), 10mm graduation. Made of highest grade glass fiber with double with double P.V.C. coating for superior abrasion resistivity and tensile strength. For measurement in mountains, forests, water surfaces, harbours and piling projects.

Code	Model No	Length (m)
ALN 0014-1	MSR 30	30 m
ALN 0014-2	MSR 50	50 m
ALN 0014-3	MSR 100	100 m

“TOKYO RIKA” SINGLE WHEEL WALKING MEASURE MODEL B20-S / C10S



B20-S



C10-S

Model B20-S comes with 20cm diameter wheel, measure range up to 10km at 10cm graduation. Model C 10-S comes with 10cm diameter wheel, measure range up to 1km at a 1cm graduation. Both models with telescopic handle.

Code	Wheel Dia (cm)	Digit	Graduation	Measuring Range	Wt (kg)
ALN 0015	20	5	10 cm	0.1km – 10km	1.0
ALN 0016	10	5	1 cm	0.01m – 1km	0.7

MEASURING TOOLS

Protractors



Rulers



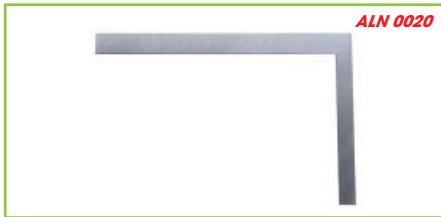
B20-S

Made of stainless steel, fully heat-treated, photographically etched graduations. Hard chrome finish, unreflective. S-Polished finish, reflective

Inch / Metric Graduations

Code	Length	W x Thickness
1	6" / 150	15 x 0.5
2	8" / 200	19 x 0.8
3	12" / 300	25 x 1.0
4	20" / 500	30 x 1.2
5	24" / 600	30 x 1.2
6	36" / 1000	35 x 1.5
7	60" / 1500	40 x 2.0
8	78" / 2000	40 x 2.0
9	118" / 3000	40 x 3.0
10	150" x 4000	45 x 3.0

Squares



Chalk Line Reel and Chalk Set

Code	Length		Graduation	
	Body	Tongue	Face	Back
1	24" x 12"	16" x 1-1/2"	1/8"	1/8"
2	24" x 12"	16" x 1-1/2"	1/8"	1/8"



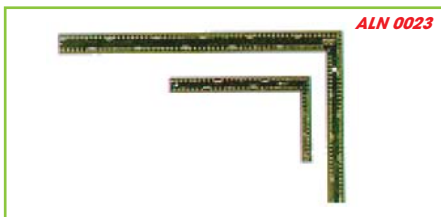
Try Squares

Code	Blade		Graduation	
	mm	inches	mm	inches
1	152	6	124	4 7/8
2	203	8	124	4 7/8
3	254	10	184	7 1/4
4	305	12	184	7 1/4



Combination Squares

Code	Description	O/A Length	
		mm	Inches
1	Metric/Imperial	305	12
2	Metric	300	11 13/16



Steel Rafter Square

Code	Long & Short (mm)
	L x W x Thickness
1	300 x 200 x 38 x 1.2
2	600 x 400 x 51 x 2.3



Tri Square

Code	Length
	Blade x Handle
1	8" x 5"
2	250 x 150mm
3	12" x 15"

MEASURING TOOLS Chalk Line Reels / Inks



Chalk Line Reel and Chalk Set

- Kit contains one 50ft (15m) polypropylene chalk reel and 4oz (113gm) chalk container with blue chalk.

Code	Length	
	Meter	Feet
1	15	50
2	15	50



Chalk Line Reel and Chalk Set

- String : 20m



Ink for Marking Tool

Code	Colour	Weight (ml)
1	Black	180
2	Red	
3	White	



Tajima Auto-Return Plumb Bob Setter - Japan

Code	Item	Bob (g)	String
1	PZ-B400	400	4.5m

Plastic body with ferrite magnet, designed for setting bob from 100g to 1,000g on wood, steel and aluminium materials, suitable for all type of carpentry.

Tajima Spare Nylon String For Plumb Bob Setter - Japan

Code	Item	Length	Packing
2	PC-ITOL15M	15m	10

Plumb Bob - Japan



Brass-plated steel



Made of heat-treated alloy steel, chrome-plated with a removable tip-protection cap.

Code	Item	Weight (g)	Size
1	ED-75PB	75	-
2	ED-100PB	100	-
3	ED-125PB	125	-
4	ED-150PB	150	-
5	P-QB200	200	Ø35 x 135
6	P-QB300	300	Ø38 x 150
7	P-QB400	400	Ø42 x 155
8	P-QB600	600	Ø46 x 170
9	P-QB800	800	Ø52 x 175

Tajima Magnetic Holder - Japan



Code	Item	Capacity (kg)
1	MGP-M	7
2	MGP-L	14

Tajima Magnetic Pickup - Japan



Code	Item	Capacity (kg)
1	PUP-M	7.5

Levels



Aluminum Spirit Levels

Code	Length		# of Vials
	mm	Inches	
1	305	12	2 - level/Plumb
2	450	18	3 - level/Plumb
3	610	24	3 - level/Plumb
4	915	36	3 - level/Plumb
5	1220	48	3 - level/Plumb



Torpedo Levels

Code	Length		# of Vials
	mm	Inches	
1	229	9	3 level/45° Plumb with Magnetic Base
2	203	8	3 level/45° Plumb
3	203	8	3 level/45° Plumb

MEASURING TOOLS
Calipers



Digimatic Calipers with Economical Design
Specifications: Metric

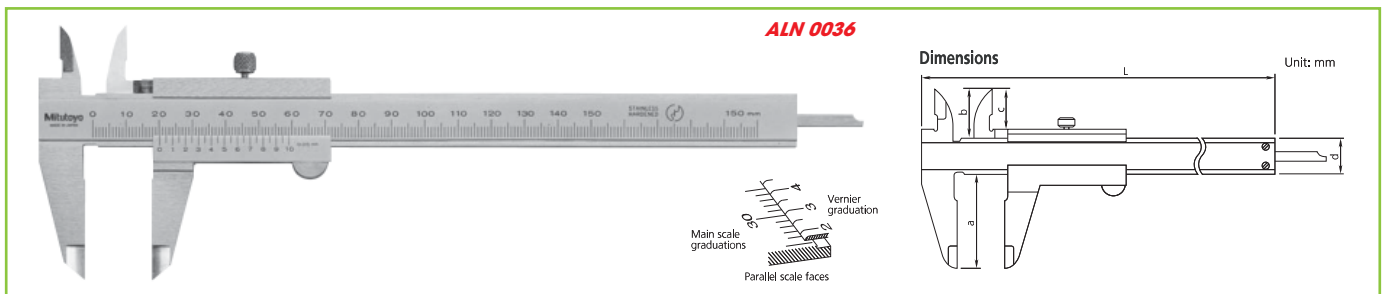
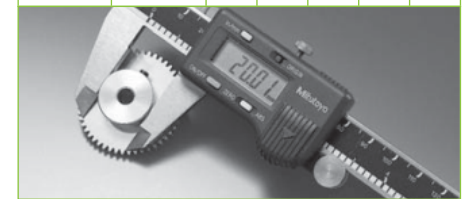
Code	Range	Resolution	Accuracy
1	0 - 100mm	0.01mm	±0.02mm
2	0 - 150mm	0.01mm	±0.02mm
3	0 - 200mm	0.01mm	±0.02mm

Dimensions - Unit: mm

Code	Range	L	a	b	c	d
1	0 - 100mm	180	40	21	21	16.5
2	0 - 150mm	231	40	21	21	16.5
3	0 - 200mm	288	50	24.5	24.5	20

Specifications: Metric

Code	Range	Resolution	Accuracy
1	0 - 4" (0 - 100mm)	.0005"/0.01mm ± .0010"	.30 lbs
2	0 - 6" (0 - 150mm)	.0005"/0.01mm ± .0010"	.36 lbs
3	0 - 8" (0 - 200mm)	.0005"/0.01mm ± .0010"	.42 lbs



Vernier Caliper

Specifications: Metric

Code	Range		Vernier reading		Accuracy
	Lower Scale	Upper Scale	Lower Scale	Upper Scale	
1	0 - 150mm	-	0.05mm	-	±0.05mm
			0.02mm	-	±0.03mm
2	0 - 200mm	-	0.05mm	-	±0.05mm
			0.03mm	-	±0.03mm
3	0 - 300mm	-	0.05mm	-	±0.08mm
			0.02mm	-	±0.04mm
4	0 - 600mm	-	0.05mm	-	±0.10mm
5	0 - 1000mm	-	0.05mm	-	±0.15mm

Dimensions - Unit: mm

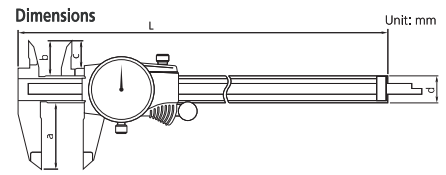
Code	Range	L	a	b	c	d
1	0 - 150mm	229	40	21	17	16
2	0 - 200mm	288	50	24.5	20.5	16
3	0 - 300mm	403	64	27.5	22	20
4	0 - 600mm	780	90	47	38	25
5	0 - 1000mm	1240	130	60	50	32

Specifications: Metric

Code	Range		Vernier reading		Accuracy
	Lower Scale	Upper Scale	Lower Scale	Upper Scale	
1	0 - 150mm	0 - 6"	0.05mm	1/128"	±0.05mm
			0.02mm	.001"	±0.03mm
2	0 - 200mm	0 - 8"	0.05mm	1/128"	±0.05mm
			0.03mm	.001"	±0.03mm
3	0 - 300mm	0 - 12"	0.05mm	1/128"	±0.08mm
			0.02mm	.001"	±0.04mm

MEASURING TOOLS

Calipers



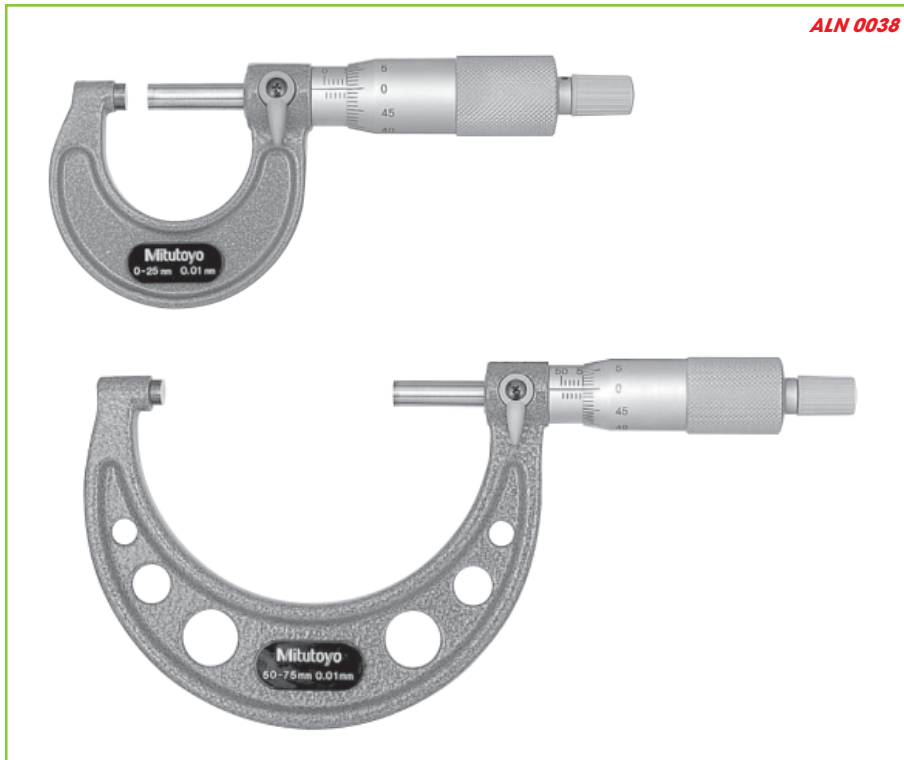
Digital Calipers with Economical Design

Specifications: Metric

Code	Range	Resolution		Accuracy
		Graduation	Range/rev.	
1	0 - 100mm	0.05mm	5mm	±0.05mm
2	0 - 100mm	0.05mm	5mm	±0.05mm
		0.02mm	2mm	±0.03mm
3	0 - 200mm	0.05mm	5mm	±0.05mm
		0.02mm	2mm	±0.03mm
4	0 - 300mm	0.05mm	5mm	±0.08mm
		0.02mm	2mm	±0.04mm

Dimensions - Unit: mm

Code	Range	L	a	b	c	d
1	0 - 100mm	180	40	21	16.5	16
2	0 - 150mm	231	40	21	16.5	16
3	0 - 200mm	288	50	24.5	20	16
4	0 - 300mm	403	64	27.5	22	20



Code	Range	Graduation
1	0 - 25mm	0.01mm
2	103 - 129mm	0.001mm
3	25 - 50mm	0.01mm
4	103 - 130mm	0.001mm
5	50 - 75mm	0.01mm
6	75 - 100mm	0.01mm
7	100 - 125mm	0.01mm
8	125 - 150mm	0.01mm
9	150 - 175mm	0.01mm
10	175 - 200mm	0.01mm
11	200 - 225mm	0.01mm
12	225 - 250mm	0.01mm
13	250 - 275mm	0.01mm
14	275 - 300mm	0.01mm
15	300 - 325mm	0.01mm
16	325 - 350mm	0.01mm
17	350 - 375mm	0.01mm
18	375 - 400mm	0.01mm
19	400 - 425mm	0.01mm
20	425 - 450mm	0.01mm
21	450 - 475mm	0.01mm
22	475 - 500mm	0.01mm

Outside Micrometers



Code	Size (inch) in
1	6"
2	8"
3	10"
4	12"

Inside Caliper



Code	Size (inch) in
1	6"
2	8"
3	10"
4	12"

Outside Caliper



Code	Size (inch) in
1	6"
2	8"
3	10"
4	12"

Divider

MEASURING TOOLS
Gauges



Taper Gauge

Code	Length (mm)	Capacity (mm)
1	120	1 - 15
2	120	15 - 30
3	120	30 - 45
4	120	45 - 60



Feeler Gauge

Suitable to change any type of accumulators. Equipped with copper windings and automatic overload and polarity inversion safeguards.

Code	Blades	Length
ALN 0043	15	3-5/16"



Feeler Gauge

Measures clearance from .04" to 1.00".

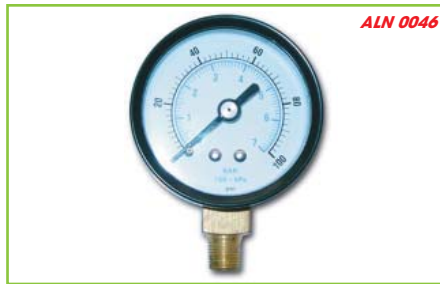
Code	Blades	Length
ALN 0044	15	3-5/16"



Thread Gauge

Used in checking numbers of threads per inch for 22 different pitches (9 thru 40, plus 11-1/2 and 27); blades fold into body for storage.

Code	Blades	Length
ALN 0045	22	70mm



Pressure Gauge

Code	50mm Dial 1/8" BSPT Bottom Connection	
1	0-30 PSI/Bar	PG50B30
2	0-60 PSI/Bar	PG50B60
3	0-100 PSI/Bar	PG50B100
4	0-160 PSI/Bar	PG50B160
5	0-200 PSI/Bar	PG50B200
6	0-300 PSI/Bar	PG50B300
7	0-400 PSI/Bar	PG50B400



Pressure Gauge

Code	50mm Dial 1/8" BSPT Back Connection	
1	0-30 PSI/Bar	PG50B30
2	0-60 PSI/Bar	PG50B60
3	0-100 PSI/Bar	PG50B100
4	0-160 PSI/Bar	PG50B160
5	0-200 PSI/Bar	PG50B200
6	0-300 PSI/Bar	PG50B300
7	0-400 PSI/Bar	PG50B400



Pressure Gauge

Code	100mm Dial 1/2" BSP - Bottom Connection	
1	0-15 PSI/Bar	10753170
2	0-60 PSI/Bar	10753570
3	0-200 PSI/Bar	10753870
4	0-400 PSI/Bar	10754170
5	0-1000 PSI/Bar	10754570
6	0-3000 PSI/Bar	10754970
7	0-6000 PSI/Bar	10755170



Pressure Gauge

Code	Vacuum Gauges - Bottom Connection			
	Thread	Range	Diameter	Part #
1	1/8"	-30"	40	01115511
2	1/8"	-30"	50	01125511
3	1/4"	-30"	50	01125531
4	1/4"	-30"	63	01135530
5	3/8"	-30"	100	01155550



Cock Valve

Code	Vacuum Gauges - Bottom Connection			
	Thread	Range	Diameter	Part #
1	1/8"	-30"	40	01115511
2	1/8"	-30"	50	01125511
3	1/4"	-30"	50	01125531
4	1/4"	-30"	63	01135530
5	3/8"	-30"	100	01155550

MEASURING TOOLS

Gauges



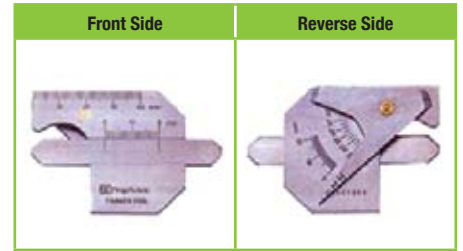
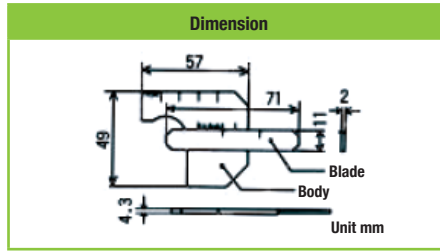
Welding Gauge, WG-1

Accuracy of Welding Gauge

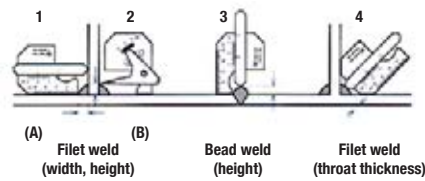
1. Angle accuracy: JIS B7526 2nd grade
2. Measuring fillet and reinforcement welds accuracy: under $\pm 0.2\text{mm}$
3. Measuring length accuracy: under $\pm 0.2\text{mm}$
4. Bevel angle accuracy: under $\pm 0.2\text{mm}$
5. Measuring root accuracy: under $\pm 0.2\text{mm}$

Featuring

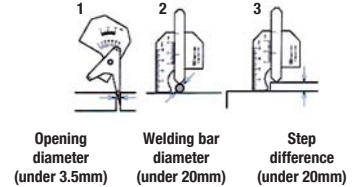
- All welding gauges are JIS certified.
- Long life use, rust and corrosion resistant. Made of stainless steel.
- These widely used welding gauges are essential for any high quality welding requirements.
- These welding gauges are extremely durable as well as being light weight. (comes in a suspending case)



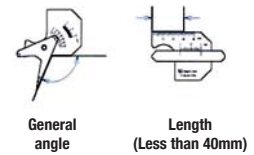
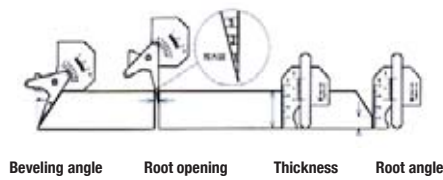
Capabilities - Measuring bead weld



Practical measuring



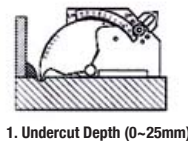
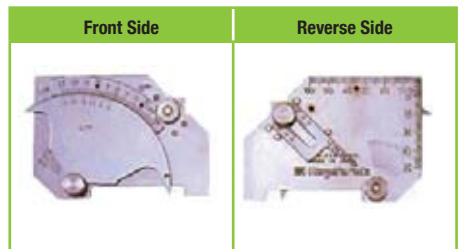
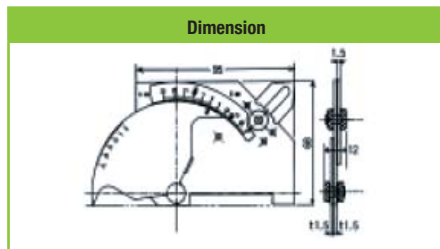
Miscellaneous measuring



Welding Gauge, WGU-7M

Featuring

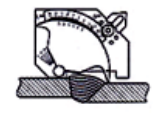
1. Easy measuring
2. Easy to read graduation
3. Stainless steel made



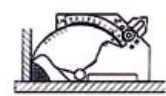
1. Undercut Depth (0-25mm)



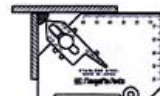
2. Groove Angle (0-60°)



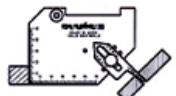
3. Step Difference (0-25mm)



4. Height of fillet weld & bead weld (0-25mm)



5. Throat thickness of fillet weld (0-15mm)



6. Root Opening (2-5mm)
7. Plate Thickness

MEASURING TOOLS
Meters



YX360TRF Drop Shock Proof Meter

Best seller drop shock proof meter

- Drop shock proof meter
- Null (zero center) meter $\pm 5 / \pm 25$ in DCV
- High resistance up to 200M Ω with low voltage
- Protective body cover
- Capacitance, dB, Li measurement

Bandwidth : 30 ~ 100Hz
Safety : IEC61010-1 (EN61010-1)2001-02
CAT.III600V

Optional Accessories	
Temperature Probe	T-THP
Clip Adapter	CL-11, TL-8IC, CL-15
Test Lead	TL-21M



Function	Measuring range	Accuracy
DCV (NULL)	0.1V (20k Ω / V)	$\pm 5\%$ of full scale
	0.25 / 2.5 / 10 / 50 (20k Ω / V) / 250 / 1000V (9k Ω / V)	$\pm 3\%$ of full scale
	$\pm 5 / 25V$ (40k Ω / V)	$\pm 5\%$ of full scale
ACV	10 / 50 / 250 / 750V (9k Ω / V)	$\pm 4\%$ of full scale
DCA	50 μ / 2.5m / 25m / 0.25A	*1 $\pm 5\%$ of full scale
Resistance	2k / 20k / 200k / 2M Ω (X1 / X10 / X100 / X1k)	$\pm 3\%$ of arc
	200M Ω (X100k)	$\pm 5\%$ of arc
Load Current (LI)	0~150m / 15m / 1.5m / 150 μ / 1.5 μ A	
Capacitance	10 μ F	*2
dB	-10dB~+22dB (for 10VAC)~+62dB	-
DC high voltage	DC25kV (optional probe "HV-10T" is necessary)	-
hFE	1000 at X 10 range (optional probe "HFE-6T" is necessary)	-
Battery	R6 (IEC) or UM-31.5VX2	
Fuse	$\varnothing 5.2 \times 20$ mm (250V / 0.5A)	
Size / Weight	H159.5 X W129 X D41.5mm / approx. 320g	
Standard	Instruction Manual, Test Lead (TL-61T), Hand Strap	
Accessories included		

The value in bracket at DCV and ACV is input resistance.

*1 - Not including the resistance of fuse.

*2 - Pointer indication of the maximum move by charged current in the capacitor.



DCM60L Clamp Meter AC

Low cost & DMM functions

- Measurable AC 0.1A~600A
- ACV & Resistance measurement
- Small design & easy to carry
- Data hold
- Continuity check buzzer

Sampling rate : 2 times / sec.
Bandwidth : 50~500Hz
Safety : IEC61010-1 (EN61010-1)2001-02
CAT.III300V Max. / CAT .II 600V

Optional Accessories	
Clip Adapter	CL-11, TL-8IC



Function	Measuring range	Best accuracy	Resolution
ACA	200 / 600A	$\pm (2.0\%+5)$ (50~60Hz) $\pm (2.9\%+5)$ (60~500Hz)	0.1A
ACV	200 / 600V	$\pm (1.5\%+5)$ (50~500Hz)	0.1V
Resistance	200 Ω	$\pm (1.9\%+3)$	0.1 Ω
Continuity	Buzzer sounds at less than approx. 100 Ω . Open voltage: approx. 1.6V		
Bandwidth	50~500Hz		
Display	1999		
Clamp diameter/ Conductor size	21mm / 10 X 30mm		
Withstand voltage	Less than 3700Vrms		
Battery	R03 X 2		
Size / Weight	H187 X W50 X D29mm / approx. 210g		
Standard	Test Lead (TL-88), Carrying Case (C-DCM60), Instruction Manual		
Accessories included			



CAM600S Clamp Meter Analog Type

AC600A, AMT functions

- AC current measurable max. 600A
- Long analog pointer with "pointer lock" function
- Temperature measurement with optional probe

Display : Analog pointer
Bandwidth : 50 / 60Hz
Safety : IEC61010-1 (EN61010-1)2001-02
CAT.III600V

Optional Accessories	
Temperature Probe	T-THP
Clip Adapter	CL-11, TL-8IC, CL-15
Test Lead	TL-21M



Function	Measuring range	Accuracy
ACA	6 / 15 / 60 / 150 / 600A	$\pm 3\%$ of full scale*
ACV	150 / 300 / 600V	$\pm 3\%$ of full scale
DCV	60V	$\pm 3\%$ of full scale
Resistance	1k / 100k Ω	$\pm 3\%$ of arc
Temperature	-10 ~ +200 $^{\circ}$ C (optional probe "T-THP" is necessary)	
Bandwidth	50 / 60Hz	
Clamp diameter/ Conductor size	36mm / 10 X 50mm	
Withstand voltage	5550VAC	
Battery	R03X1	
Size / Weight	H221 X W97 X D43mm / 420g	
Standard	Test lead (TL-21), Carrying Case (C-CAM6), Instruction Manual	
Accessories included		

*4% in 300 ~ 600A

MEASURING TOOLS



Nylon String



Nylon String Green



PVC Ink Pot



Black Ink
Small (1), Large (2)



Carpenter Pencil (England)



Carpenter Pencil (China)



Coreen Pencil Red



Coreen Pencil Red/Blue