

14. Construction Tools



- Packaging Shrink package Box Vinyl package + header card Card No package
 Sleeve package Bag Clear package Vinyl package

Stud Finder Smart

- 78585 Needle : Wall thickness up to **25 mm**
- 78586 Needle : Wall thickness up to **35 mm**
- 78592 Needle : Wall thickness up to **35 mm**
 Magnet : Wall thickness up to **13 mm** / ceiling thickness up to **12 mm**
- *When finding steel material behind plaster board, the usable area of magnet can vary depending on conditions.
- 78574 Needle : Wall thickness up to **45 mm**

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
78585	25 mm	113x21x17.5	18		10	
78586	35 mm	133x21x17.5	20			
78592	35 mm with Magnet	161.5x21x17.5	28			
78574	45 mm	153x21x17.5	22			

Features

- Needle-type stud finder for plasterboard
- Handy carrying size
- Finds studs behind wall panel easily and accurately
- Graduations to measure the thickness of the wall material approximately
- Includes two replacement needles inside
- Safety lock feature prevents needle from coming out accidentally
- Keeps clean with Antibacterial body
- Magnetic model
- Can detect location of both metal and wooden studs
- Can detect location of nails or metal studs (steel) under the cross without scratching the wall

Detection with magnet: Metal studs can be found from sounds without needle.

Detection with needle: Wooden studs can be found by using needle.

Use

- For finding studs behind plaster board

Specifications

Material	Body: ABS resin (with antibacterial agent) Movable Needle Cover: Polycarbonate resin Needle: Stainless steel
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JIS JIS mark With red numbers cm/shaku (Upper side (or Front) metric / Lower side (or Back) shaku) With magnet Vial with Luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
 Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku / Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

- Carpenter's Squares
- Stainless Steel Rules / Machine Scale
- Aluminum Rules
- Bein Folding Rules / Bamboo Rules
- Squares / Protractors
- Venier Calipers / Micrometers
- Tape Measures
- Surveying Products
- Scales
- Levels
- Lasers / Optical Equipment
- Plinkies / Chalklines / Plumbholders
- Circular Saw Guides
- Construction Tools
- Industrial Tools
- Thermometers / Hygrometers / Humidity Measuring Instruments
- Outdoor Products
- Magnifying Glasses
- Drawing Tools
- Magnets

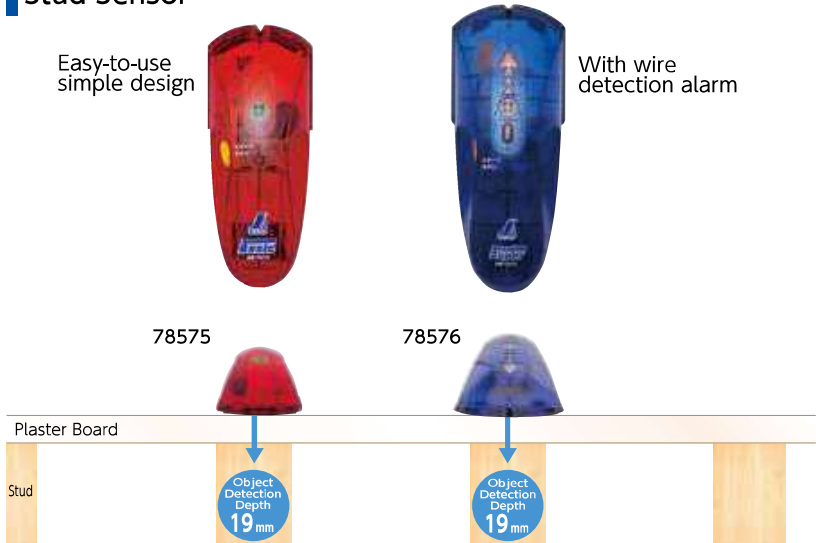
Replacement Needle for Stud Finder Smart

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
78594	10 pc-pack for Stud Finder Smart 25 mm	φ0.7×70	-	4 960910 785946	10	
78595	10 pc-pack for Stud Finder Smart 35/45 mm	φ0.7×80	-	4 960910 785953	10	

Use

- For Stud Finder Smart series only (Not compatible with Stud Finder series)

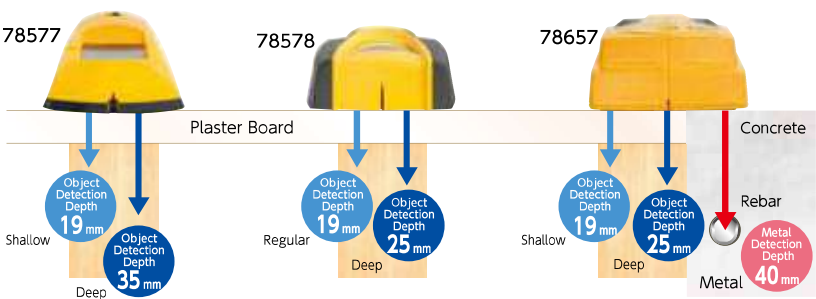
Stud Sensor



Deep mode equipped

Detect the center of stud instantly

Multi-purpose all-purpose model



Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
78575	Basic	136×56×35	101	4 960910 785755	5	
78576	Super	153×61×42	134	4 960910 785762	5	
78577	HG	169×71×45	159	4 960910 785779	5	
78578	HG-Center Finder	159×78×34	155	4 960910 785786	5	
78657	EX	160×80×30	230	4 960910 786578	5	

*Not available in certain areas. Please contact us for details.

JIS JIS mark With red numbers cm/shaku (Upper side for Front metric / Lower side for Back shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
 Japanese zodiac signs With battery shaku/cm (Upper side for Front shaku / Lower side for Back metric) With non-slip pad Thermometer/Hygrometer Hygrometer Vibrating tool Letters in English With direction arrow With grid scale Plastic lens

Features

- Detects metal, wood, plastic, and rebar in concrete (only 78657) with light and alarm
- Sensor mode can be changed depending on material and thickness of wall (78577/78578/78657)
- Easy-to-hold and non-slip rubber grip (78577/78578/78657)

Use

- For finding studs behind walls

Specifications

Object	Material Model	Veneer + Plaster board	ALC Board	Concrete	Mortar	Metal
Wood	Basic	○	○	○	○	○
	Super	○	○	○	○	○
	HG	*	×	×	×	×
	HG-Center	*	○	○	○	○
Metal	Basic	○	○	○	○	○
	Super	○	○	○	○	○
	HG	*	×	×	×	×
	HG-Center	*	○	○	○	○
	EX	○	○	○	○	×

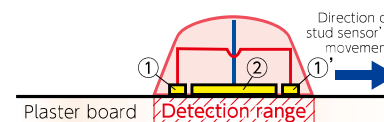
*It is not possible to determine the metal and wood.

	78575	78576	78577
Material	Body: ABS resin		
Power Source	1x 9V Alkaline battery (Battery included is for trial use only and may not last as long)		
Object Detection Depth (approximate)	19 mm	19 mm	Shallow 19 mm Deep 35 mm
Wire Detection Alarm	×	○	○
Center Detection	×	×	×

	78578	78657
Material	Body: ABS resin	
Power Source	1x 9V Alkaline battery (Battery included is for trial use only and may not last as long)	
Object Detection Depth (approximate)	Regular 19 mm Deep 25 mm	Wood 25 mm Metal 40 mm
Wire Detection Alarm	○	○
Center Detection	○	×

Stud sensor's mechanism

- Detects changes in electrostatic capacity



Inside the stud sensor are two electrodes, shown above as ① and ②, and the sensor detects changes in electrostatic capacity among each electrode when an object with higher density than the wall comes between them, as shown in ②.

Concept of electrostatic capacity

Electrostatic capacity refers to the amount of electric charge that is stored in the two electrodes when a DC current is run between them, and this electrostatic capacity changes when an object approaches one of the electrodes.

Metal Stud Finder



78674 Wall thickness up to **15 mm**



Features

- Strong magnetic pendulum helps to find metal studs behind a wall or the position of nails or screws without scratching the wallpaper
- Easily detects with magnetic reaction
- Compact and lightweight. Great portability
- Reacts to magnetic pull from any direction with 360° rolling system



Use

- For detecting metal studs behind a wall

Specifications

Material	Body: ABS resin Windshield Cover: Acrylic resin Magnet: Neodymium
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Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
78674	Mini	30×30×31.5	13	4 960910 786745	10	

Tile Percussion Hammer



74105



74106

With strap (except 74106)

Features

- Contracts to pocket size for great portability

Use

- For inspecting integrity of tiles



Specifications

	74102	74103	74104
Material	Shaft: Stainless steel Globe Part: Tool steel		Grip: Rubber Strap: Nylon
Size	Min - Max 130 - 435 mm	Min - Max 165 - 725 mm	Min - Max 220 - 1,170 mm
Globe Part	ø17.5 mm		

	74105	74106
Material	Shaft: Stainless steel Globe Part: Tool steel Grip: Rubber Strap: Nylon	Shaft: Stainless steel Globe Part: Tool steel
Size	Min - Max 300 - 990 mm	Min - Max 147 - 605 mm
Globe Part	ø17.5 mm	

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
74102	A-1	130×18×18	71	4 960910 741027	5	
74103	A-2	165×18×18	90	4 960910 741034		
74104	A-3	220×18×18	111	4 960910 741041		
74105	A-4	300×18×18	126	4 960910 741058		
74106	B-1	147×17.5×17.5	61	4 960910 741065		

Digital Moisture Meter for Wood

NEW

With protective cap



78636



Know at a glance the numerical value's increase or decrease on the moisture content bar graph

Features

- Can easily measure the moisture of wood, and supports a wide variety from building materials to firewood
- Backlight function to make LCD screen easy to see even in dark places
- Holds the measured value so the numerical value can be checked even when the LCD screen is hard to see
- Can display the highest/lowest moisture content during measurement

Use

- For measuring the moisture content of wood

Specifications

Measurement Method	Electrical resistance
Measurement Range	Moisture content: 6.8 - 60% Temperature: -10 - 50°C*1 Humidity: 10 - 90%*1
Accuracy	Moisture Content: ±2%
Use Temperature	-10 - 50°C
Storage Temperature	-40 - 60°C
Resolution	Moisture Content: 0.1% Temperature: 0.1°C Humidity: 0.1%
Auto Power Off	Approx. 10 min.*2
Power Source	2x AAA batteries (Batteries included are for trial use only and may not last as long.)
Material	Body: ABS resin, elastomer resin Measuring Probes: Stainless steel Button: Silicone rubber
Accessory	Storage case, 2x AAA batteries

*1 Since the accuracy of the temperature/humidity measurement function cannot be guaranteed, please use as an approximation.
 *2 When the device turns off due to the Auto Power Off function, the power button must be pressed twice to turn it on again.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
78636	with Maximum and Minimum Hold Function	130×55×29	144	4 960910 786363	1	

Fabric Safety Cord



Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
80858	A Black	660×12×15	42		10	
80859	A Orange	660×12×15	42			
80860	B Black	680×15×17	72			
80861	B Orange	680×15×17	72			

Features

- Cloth-made bellows structure resists tangling
- Swivel rotates 360°
- Resists spreading out when worn on the waist for greater comfort during work



Use

- To prevent dropping and losing various tools

Specifications

	80858	80859	80860	80861
Material	Cord: Nylon Swivel: Zinc alloy			
Cord Size	Natural Length	Approx. 660 mm	Approx. 680 mm	
	Stretched Length	Approx. 1,430 mm	Approx. 1,450 mm	
	Width	12 mm	15 mm	
Working Load	Under 1 kg	Under 3 kg		

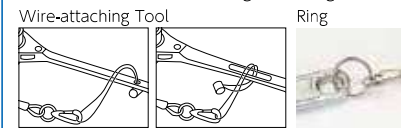
Safety Cord



Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
80890	A	340×22×10	25		10	
80891	B	500×30×11	73			

Features

- Stainless steel wire is used as a core material for better durability, and polyurethane resin provides flexibility
- Comes with wire and ring-attaching tool



Use

- To prevent tools falling

Specifications

	80890	80891	
Cord Size	Diameter	φ1.65 mm	φ4.0 mm
	Core Diameter	φ0.6 mm	φ1.0 mm
	Length	Approx. 340 mm	Approx. 500 mm
	Maximum Extension	Approx. 1,200 mm	Approx. 1,400 mm
Working Load	Under 500 g	Under 1 kg	
Material	Cord: Stainless steel, polyurethane resin Wire-attaching Tool: Stainless steel (nylon coating), brass Saddle Snap: Zinc alloy Ring: Iron		

Folding Square



77840

Legs are detachable.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
77840	1.8 m	1,823×80×20 (excluding legs)	4,300 (Including legs)	4 960910 778405	1	

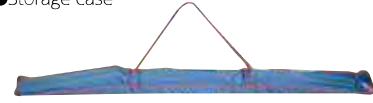
Refer to P. 2 about the shaku scale

Features

- Angle and gradient graduations. Convenient for setting and reading of angle (gradient)



- Detachable legs allow use for layout of leading frames with legs and for marking on foundations or as a bevel without legs. The leg expansion from 50cm to 80 cm helps use with high ground foundations
- Storage case



Use

- For layout of leading frames and getting a right angle when marking on foundations
- For marking angle and gradient as a sliding bevel

Specifications

Accuracy	90°: Less than 1 mm per 1,000 mm (±1.8 mm at 1,800 mm) Other than 90°: No guaranteed accuracy. Please use as a guide.
Graduation	Angle: 30 - 90°. Gradient: 0 - 9/10 (9 sun gradient) Flat Gradient: 6/10 - 9/10 (6 sun - 9 sun gradient)
Material	Body: Aluminum Legs: Aluminum, stainless steel
Body Size (excluding legs)	At 90 degrees: 1,823 × 1,823 × 20 mm

Welding Guide Rule



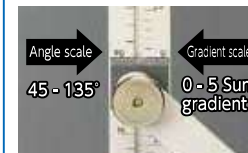
77888

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
77888	1 m with Magnet	1,010×550×54 (at 90° degree)	1,500	4 960910 778887	1	

Refer to P. 2 about the shaku scale

Features

- Insulating coating on the rule surface. This prevents sparks even if welding rods touch it.
- Body is made out of aluminum for light weight and easy use
- Angles can be changed easily. Angle/gradient graduations eliminate the need to make a mold for each building.



- Strong magnet fixes it tightly on a surface
With strong magnet



Use

- For tack welding
- For measuring and setting of angle and gradient

Specifications

Accuracy	Perpendicular: 1 mm or less per 1,000 mm
Graduation	Angle: 45 - 135° Gradient: Up to 5/10 (5 sun gradient)
Material	Body: Aluminum Rivet: Stainless steel