

07

SURVEYING ACCESSORY

NO.



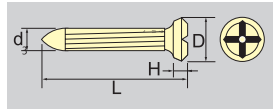
SURVEYING ACCESSORY

KONOE NAIL & MARKER

for CONCRETE

NO.01  L : 27mm / 3g

NO.1  L : 43mm / 6g



for ASPHALT

NO.2  L : 55mm / 20g

NO.R  L : 65mm / 25g

NO.3  L : 80mm / 30g

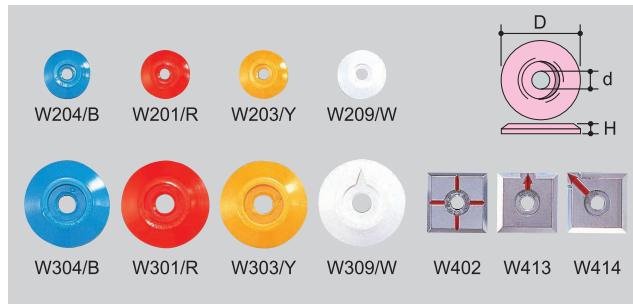
for GRAVEL

NO.4  L : 105mm / 50g

NO.4S  L : 55mm / 50g

NO.5  L : 130mm / 60g

NO.7  L : 205mm / 100g



FEATURES

- Wide range of use by special steel
- Easy to find the point with colorful marker

SPECIFICATIONS

Model	: NO.01 / 1	NO.2 / R / 3	NO.4 / 4S / 5 / 7
Suitable for	: Concrete	Asphalt	Gravel
Packing	: 100pcs/pack	100pcs/pack	50pcs/pack
Marker	: NO.2	NO.3	NO.3

NAIL

CODE NO.	MODEL	REMARKS
122026	NO.01	D6 x d4 x L27 x H2, 100pcs/pack
122027	NO.1	D9 x d5 x L43 x H3, 100pcs/pack
122028	NO.2	D15 x d7 x L55 x H5, 100pcs/pack
122029	NO.R	D15 x d7 x L65 x H4, 100pcs/pack
122030	NO.3	D15 x d7 x L80 x H5, 100pcs/pack
122031	NO.4	D20 x d9 x L105 x H5, 50pcs/pack
213830	NO.4 SHORT	D20 x d9 x L25 x H5, 50pcs/pack
122032	NO.5	D20 x d9 x L130 x H5, 50pcs/pack
122033	NO.7	D20 x d9 x L205 x H5, 50pcs/pack

MARKER

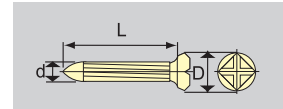
CODE NO.	MODEL	REMARKS
122035	W204/B	D27 x d4 x H5, 100pcs/pack
122036	W201/R	D27 x d4 x H5, 100pcs/pack
122037	W203/Y	D27 x d4 x H5, 100pcs/pack
122041	W209/W	D27 x d4 x H5, 100pcs/pack
212124	W206/G	D27 x d4 x H5, 100pcs/pack
122038	W304/B	D47 x d7 x H10, 20pcs/pack
122039	W301/R	D47 x d7 x H10, 20pcs/pack
122040	W303/Y	D47 x d7 x H10, 20pcs/pack
215945	W309/W	D47 x d7 x H10, 20pcs/pack
212125	W306/G	D47 x d7 x H10, 20pcs/pack
122043	W402	D50 x d5 x H10, 10pcs/pack
122330	W413	D50 x d5 x H11, 10pcs/pack
122331	W414	D50 x d5 x H11, 10pcs/pack

MEASURE NAIL & MARKER

for CONCRETE

NO.01  L : 25mm

NO.1  L : 40mm



for ASPHALT

NO.2  L : 50mm

NO.R  L : 65mm

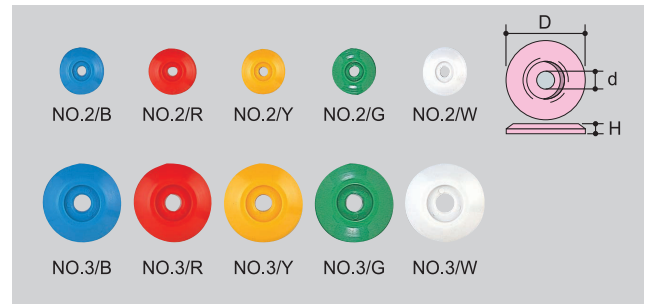
NO.3  L : 75mm

for GRAVEL

NO.4  L : 100mm

NO.5  L : 125mm

NO.7  L : 200mm



FEATURES

- Easy to drive a nail, but hard to pick it out
- Wide range of use by special steel
- Easy to find the point with colorful marker

SPECIFICATIONS

Model	: NO.01 / 1	NO.2 / R / 3	NO.4 / 5 / 7
Suitable for	: Concrete	Asphalt	Gravel
Packing	: 100pcs/pack	100pcs/pack	50pcs/pack
Marker	: NO.2	NO.3	NO.3

NAIL

CODE NO.	MODEL	REMARKS
122054	NO.01	D6 x d4 x L25, 100pcs/pack
122055	NO.1	D9 x d5 x L40, 100pcs/pack
122056	NO.2	D15 x d7 x L50, 100pcs/pack
122057	NO.R	D15 x d7 x L65, 100pcs/pack
122058	NO.3	D15 x d7 x L75, 100pcs/pack
122059	NO.4	D20 x d9 x L100, 50pcs/pack
122060	NO.5	D20 x d9 x L125, 50pcs/pack
122061	NO.7	D20 x d9 x L200, 50pcs/pack

MARKER

CODE NO.	MODEL	REMARKS
122074	NO.2/B	D25 x d4 x H5, 100pcs/pack
122075	NO.2/R	D25 x d4 x H5, 100pcs/pack
122076	NO.2/Y	D25 x d4 x H5, 100pcs/pack
210010	NO.2/G	D25 x d4 x H5, 100pcs/pack
122004	NO.2/W	D25 x d4 x H5, 100pcs/pack
122077	NO.3/B	D45 x d7 x H10, 20pcs/pack
122078	NO.3/R	D45 x d7 x H10, 20pcs/pack
122079	NO.3/Y	D45 x d7 x H10, 20pcs/pack
210011	NO.3/G	D45 x d7 x H10, 20pcs/pack
122080	NO.3/W	D45 x d7 x H10, 20pcs/pack



EARTH NAIL & MARKER

for CONCRETE

NO.01  L : 27mm

NO.1  L : 43mm

for ASPHALT

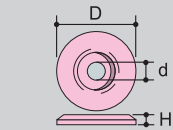
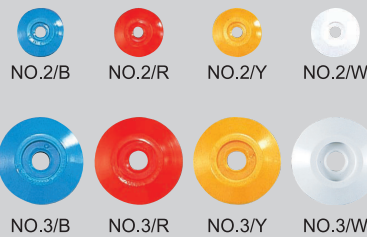
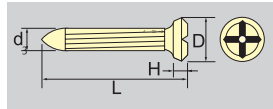
NO.2  L : 55mm

NO.3  L : 80mm

for GRAVEL

NO.4  L : 105mm

NO.5  L : 130mm



FEATURES

- Easy to drive a nail, but hard to pick it out
- Depression on the head makes it visible target
- Easy to find the point by eye-catching marker

SPECIFICATIONS (Nails)

Model	: NO.01 / 1	NO.2 / 3	NO.4 / 5
Suitable for	: Concrete	Asphalt	Gravel
Packing	: 100pcs/pack	100pcs/pack	50pcs/pack
Marker	: NO.2	NO.3	NO.3

NAIL

CODE NO.	MODEL	REMARKS
212141	NO.01	D6 x d4 x L27 x H2, 100 pcs / pack
212142	NO.1	D9 x d5 x L43 x H3, 100 pcs / pack
212143	NO.2	D15 x d7 x L55 x H5, 100 pcs / pack
212144	NO.3	D15 x d7 x L80 x H5, 100 pcs / pack
212145	NO.4	D20 x d9 x L105 x H5, 50 pcs / pack
212146	NO.5	D20 x d9 x L130 x H5, 50 pcs / pack

MARKER

CODE NO.	MODEL	REMARKS
212161	NO.2/R	D27 x d4 x H5, 100 pcs / pack
212162	NO.2/B	D27 x d4 x H5, 100 pcs / pack
212163	NO.2/Y	D27 x d4 x H5, 100 pcs / pack
212164	NO.2/W	D27 x d4 x H5, 100 pcs / pack
212165	NO.3/R	D47 x d10 x H10, 20 pcs / pack
212166	NO.3/B	D47 x d10 x H10, 20 pcs / pack
212167	NO.3/W	D47 x d10 x H10, 20 pcs / pack
212168	NO.3/Y	D47 x d10 x H10, 20 pcs / pack

ALUMINIUM MARKER



AC30



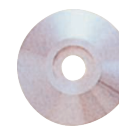
AC40B



AC40S



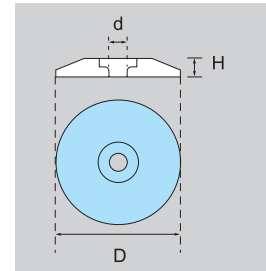
AC50



AC60

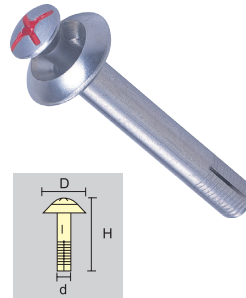
FEATURES

- Aluminium survey marker
- Use with the survey nail
- Possible to inscribe by order



CODE NO.	MODEL	REMARKS
210005	AC30	30 mm x 6 mm x 6 mm
210006	AC40B	40 mm x 6 mm x 8 mm
122472	AC40S	40 mm x 6 mm x 5 mm
122471	AC50	50 mm x 6 mm x 8 mm
122470	AC60	60 mm x 9 mm x 10 mm

ANCHOR NAIL

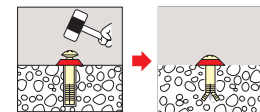


FEATURES

- Nail with Anchor function
- High workability
- All in one unit

SPECIFICATIONS

Dimensions : D20 x d8 x H50mm



Incert nail into a pilot hole and hit the head
The foot part opens not to be picked up

CODE NO.	MODEL	REMARKS
122348	AN	Stainless

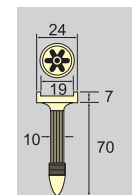
MARKING NAIL

FEATURES

- Any mark is available on request
- High workability as marker

SPECIFICATIONS

Dimensions : D24 x d10 x H77mm



CODE NO.	MODEL	REMARKS
122044	KONOE BM	Iron

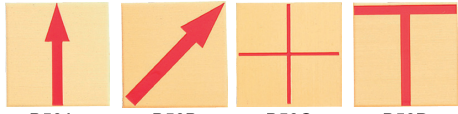


1 TRIPOD
2 PRISM
3 POLE
4 STAFF
5 GPS
6 SURVEYING INSTRUMENT
7 SURVEYING ACCESSORY
8 MEASURING TOOL
9 TESTING SECURITY

SURVEYING ACCESSORY

BRASS MARKING PLATE FOR BOUNDARY - BOND TYPE -

50mm x 50mm x 2mm

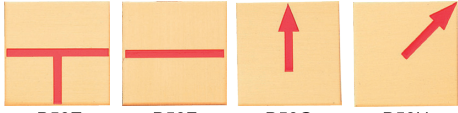


B50A

B50B

B50C

B50D



B50E

B50F

B50G

B50H

40mm x 40mm x 2mm



B40A

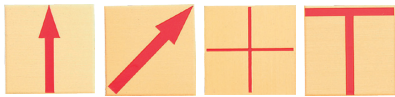
B40B

B40C

B40D

B40E

35mm x 35mm x 2mm



B35A

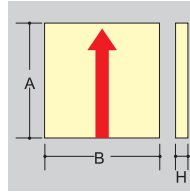
B35B

B35C

B35D

■ FEATURES

- To show the boundary between areas
- High durability by brass made
- Various type available (8 type marks & 3 size plates)



Dimensions



K-120

(Usable quantity: 30~50pcs)

CODE NO.	MODEL	REMARKS
122475	B50A	A50 x B50 x H2
122476	B50B	A50 x B50 x H2
122477	B50C	A50 x B50 x H2
122478	B50D	A50 x B50 x H2
122479	B50E	A50 x B50 x H2
122480	B50F	A50 x B50 x H2
122481	B50G	A50 x B50 x H2
122482	B50H	A50 x B50 x H2
122483	B40A	A40 x B40 x H2
122484	B40B	A40 x B40 x H2
122485	B40C	A40 x B40 x H2
122486	B40D	A40 x B40 x H2
122487	B40E	A40 x B40 x H2
122488	B35A	A35 x B35 x H2
122489	B35B	A35 x B35 x H2
122490	B35C	A35 x B35 x H2
122491	B35D	A35 x B35 x H2
210059	K-120	Glue / 170ml

BRASS MARKING PLATE FOR BOUNDARY - ANCHOR TYPE -

50mm x 50mm x 2mm



B50A1

B50B1

40mm x 40mm x 2mm



B40A1

B40B1

35mm x 35mm x 2mm



B35A1

B35B1

■ FEATURES

- Fixable strongly by anchor
- High durability by brass made
- Two-type marks
- Three-size plates
- Anchor pin's mandrel is made by stainless

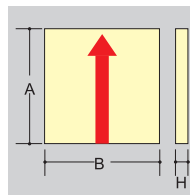


Plate / dimension



K-120

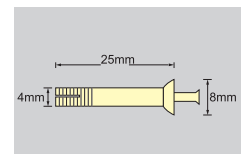
(Usable quantity: 30~50pcs)



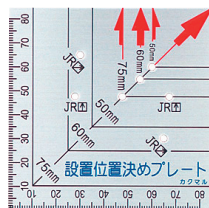
K425-A



K425-B



Anchor pin / dimensions



SSP85

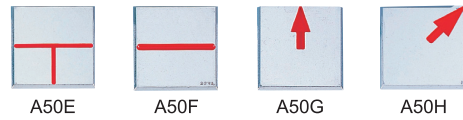
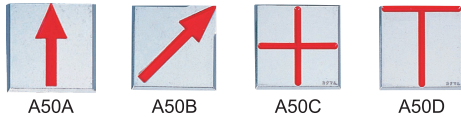
- SSP85 makes it easy to know the place of a bolt
- Available for three types of size
- Stainless made

CODE NO.	MODEL	REMARKS
122492	B50A1	A50 x B50 x H2
122493	B50B1	A50 x B50 x H2
122494	B40A1	A40 x B40 x H2
122495	B40B1	A40 x B40 x H2
122496	B35A1	A35 x B35 x H2
122497	B35B1	A35 x B35 x H2
212246	SSP85	85 x 85 x 1.5
210727	K425-A	for Aluminium 10pcs/pack
210728	K425-B	for Brass 10pcs/pack
210059	K-120	Glue / 170ml

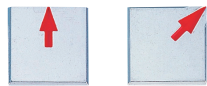


ALUMINIUM MARKING PLATE

50mm x 50mm x 4mm



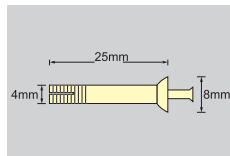
45mm x 45mm x 3mm



35mm x 35mm x 3mm



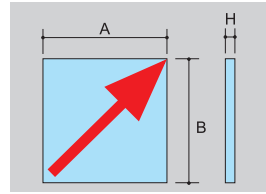
K425-A



Anchor pin / dimension

■ FEATURES

- To show the boundary between areas
- Light weight by aluminium made
- Various type available (8 type marks & 3 size plates)



Dimensions



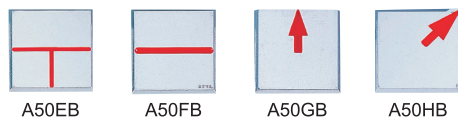
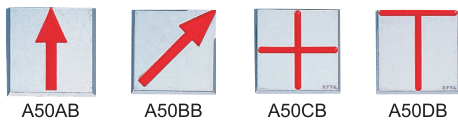
K-120

(Usable quantity: 30~50pcs)

CODE NO.	MODEL	REMARKS
122409	A50A	A50 x B50 x H4
122410	A50B	A50 x B50 x H4
122411	A50C	A50 x B50 x H4
122412	A50D	A50 x B50 x H4
122413	A50E	A50 x B50 x H4
122414	A50F	A50 x B50 x H4
122415	A50G	A50 x B50 x H4
122416	A50H	A50 x B50 x H4
122418	A45G	A45 x B45 x H3
122419	A45H	A45 x B45 x H3
210014	A35A	A35 x B35 x H3
210016	A35B	A35 x B35 x H3
210015	A35A1	A35 x B35 x H3
210017	A35B1	A35 x B35 x H3
210018	A35GG	A35 x B35 x H3
210020	A35HH	A35 x B35 x H3
210059	K-120	Glue / 170ml
210727	K425-A	Anchor pin / for A35A1 & A35B1

ALUMINIUM MARKING PLATE - ANCHOR TYPE -

50mm x 50mm x 10mm



■ FEATURES

- Fixable strongly by anchor
- Light weight by aluminium made
- Various type available (8 type marks)

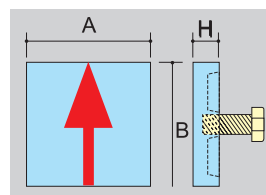
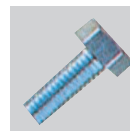


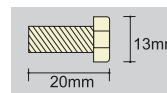
Plate / dimensions



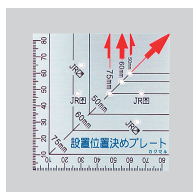
K-120



Bolt



Bolt / dimensions



SSP85

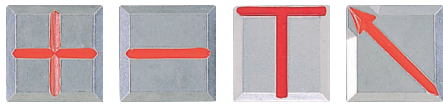
- SSP85 makes it easy to know the place of a bolt
- Available for three types of size
- Stainless made

CODE NO.	MODEL	REMARKS
122400	A50AB	A50 x B50 x H10
122401	A50BB	A50 x B50 x H10
122402	A50CB	A50 x B50 x H10
122403	A50DB	A50 x B50 x H10
122404	A50EB	A50 x B50 x H10
122405	A50FB	A50 x B50 x H10
122406	A50GB	A50 x B50 x H10
122407	A50HB	A50 x B50 x H10
210059	K-120	Glue / 170ml
212246	SSP85	85 x /85 x 1.5



SURVEYING ACCESSORY

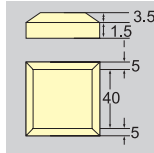
ALUMINIUM BOUNDARY MARKER - BOND TYPE -



CL-1 CL-2 CL-3 CL-4



CL-5 CL-7 CL-8



■ FEATURES

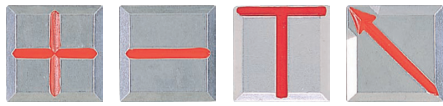
- To show the boundary between areas
- Light weight by aluminium made
- Various range available

■ SPECIFICATIONS

Dimensions : 50 x 50 x 4.5mm
Packing : 10pcs / pack

CODE NO.	MODEL	REMARKS
210043	CL-1	50 x 50 x 4.5
210044	CL-2	50 x 50 x 4.5
210045	CL-3	50 x 50 x 4.5
210046	CL-4	50 x 50 x 4.5
210047	CL-5	50 x 50 x 4.5
210048	CL-7	50 x 50 x 4.5
210049	CL-8	50 x 50 x 4.5

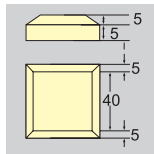
ALUMINIUM BOUNDARY MARKER - IMPLANTED TYPE -



CL-11 CL-12 CL-13 CL-14

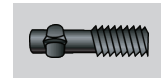


CL-15 CL-16 CL-17



■ FEATURES

- Implanted type marking plate
- Plated bolt makes the plate unmovable
- Easy to carry by aluminium made



Bolt

■ SPECIFICATIONS

Dimensions : 50 x 50 x 10mm
Packing : 4pcs / pack

CODE NO.	MODEL	REMARKS
213615	CL-11	50 x 50 x 10
213616	CL-12	50 x 50 x 10
213617	CL-13	50 x 50 x 10
213618	CL-14	50 x 50 x 10
213619	CL-15	50 x 50 x 10
213620	CL-16	50 x 50 x 10
213621	CL-17	50 x 50 x 10

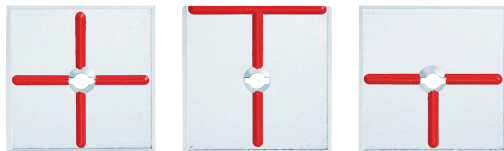
BOUNDARY MARKER - ANTIROTATION TYPE -

■ FEATURES

- Anti-rotation structure
- Newly-developed anchor's shape
- Just one hit makes anchor match with the plate perfectly
- Easy to install even in a narrow place
- Immovable after installing



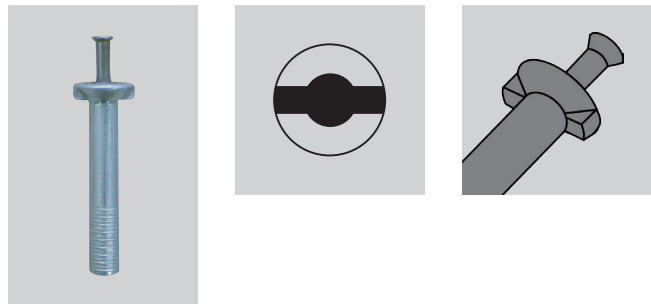
AQ50A1 AQ50B1



AQ50C1 AQ50D1 AQ50E1



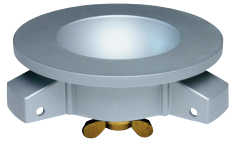
AQ50F1 AQ50G1 AQ50H1



CODE NO.	MODEL	REMARKS
216937	AQ50A1	50 x 50 x 4mm
216938	AQ50B1	50 x 50 x 4mm
216939	AQ50C1	50 x 50 x 4mm
216940	AQ50D1	50 x 50 x 4mm
216941	AQ50E1	50 x 50 x 4mm
216942	AQ50F1	50 x 50 x 4mm
216943	AQ50G1	50 x 50 x 4mm
216944	AQ50H1	50 x 50 x 4mm



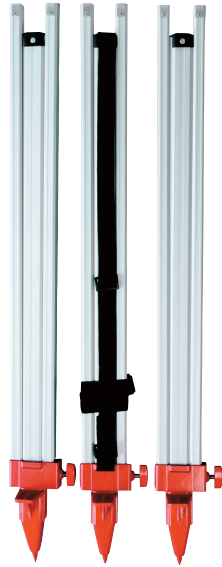
PLANE TABLE SET



Moving head with bolts



TPT-M



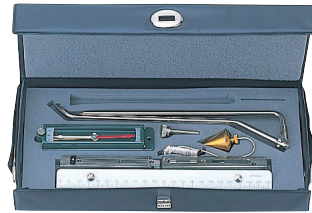
Tripod

FEATURES

- Useful for topographic mapping on site
- Perfect alidade set with a plumbing arm and a plumb bob (MAS-22)

CONTENT

- MAS-22 : Metal alidade (22cm)
 : Plumbing arm of small type (255mm)
 : Replacement aluminium scale (1/1000,1/500)
 : Degrinatoire attached with a screw
 : Brass plumb bob
 : String adjuster
- MA-22 : Metal alidade (22cm)
 : Aluminium scale (1/1000)
- HB-11 : TPT-M
 : Tripod
 : Moving head with bolts



MAS-22



SCALE22

CODE NO.	MODEL	REMARKS
219263	HB-11	Plane table set
102403	TPT-M	Plane table only
061008	MAS-22	Alidade set
061010	MA-22	Alidade & 1/1000scale only
102345	SCALE22	1/100, 1/200, 1/250, 1/500, 1/600, 1/1000

TUBULAR LEVEL FOR PLANE TABLE T-60



FEATURES

- T-type circular level
- Easy to set a plane table horizontally

SPECIFICATIONS

Sensitivity : 60"/2mm



CODE NO.	MODEL	REMARKS
102202	T-60	60"/2mm

PLUMB BOB PB series



FEATURES

- Made of 2 materials (Body: Brass, Tip: Steel)
- High durability by steel tip
- Made in Japan
- Strings attached

SPECIFICATIONS

Material : Main body - Brass
 : Tip part - Steel

CODE NO.	MODEL	REMARKS
102221	PB-70	For Plane table
102223	PB-230	For Theodolite
102228	PB-300	For Theodolite



1 TRIPOD

2 PRISM

3 POLE

4 STAFF

5 GPS

6 SURVEYING INSTRUMENT

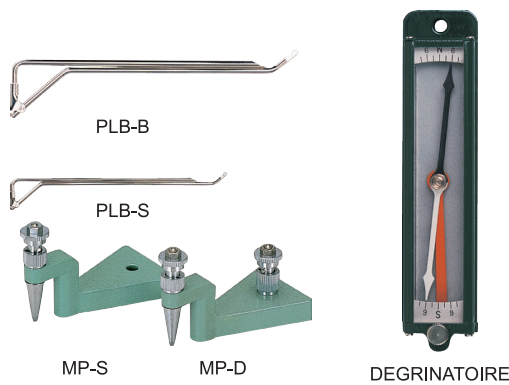
7 SURVEYING ACCESSORY

8 MEASURING TOOL

9 TESTING SECURITY

SURVEYING ACCESSORY

PLUMB BOB ARM / MEASURING PROBE / DEGRINATOIRE



■ FEATURES

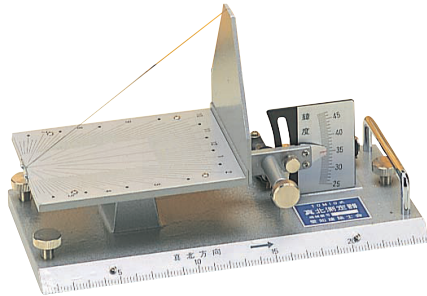
- To set up the point of a subject on the ground onto the plane table (PLB)
- To draw a line toward north on the drawing (DEGRINATOIRE)
- Easy to set a nail on the point found by PLB (MP)

■ SPECIFICATIONS

Model	: PLB-S	PLB-B
Length	: 255mm	355mm

CODE NO.	MODEL	REMARKS
101808	PLB-S	Plumbing arm small
101807	PLB-B	Plumbing Arm big
102347	MP-S	Measuring probe / single
102346	MP-D	Measuring probe / double
210729	MP NAIL	Measuringprobe / nail only
061012	DEGRINATOIRE	

TRUE NORTH INDICATOR NC-1



■ FEATURES

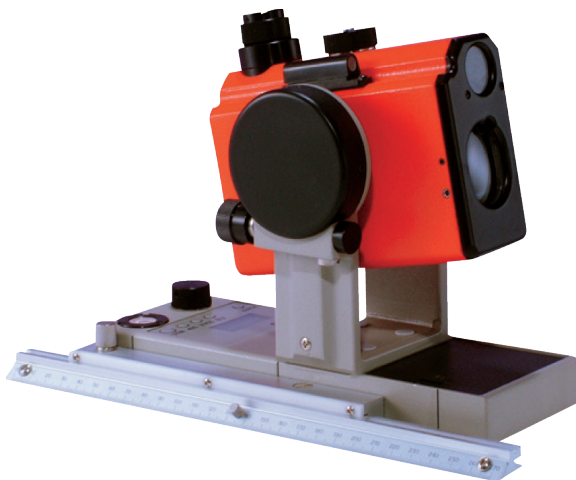
- To find true north with solar irradiation precisely
- Easy to set on the plane table
- Enable to sign true north on the drawing directly

■ SPECIFICATIONS

Measuring time	: AM6:00 ~ PM6:00 (10min. graduation)
Leveling adjustment	: Three adjusting screw
Measuring area	: 26 degrees north lat. ~ 46 degrees north lat.
Lat. grade	: 30'
Circular bubble sensitivity	: 120" / 2mm 2pcs
Dimension	: W 250 x L 120 x H165
Weight	: 1.5kg
Accessory	: Scale Time difference chart

CODE NO.	MODEL	REMARKS
082331	NC-1	Supplied in a case

ELECTRONIC ALIDADE SET LP-100



■ FEATURES

- Automatic scale calculation
- Pantograph and slide scale attached
- Measurable distance up to 50m without reflection board

■ SPECIFICATIONS

Magnification	: 12 X
Maximum measured distance	: 50m (without reflection) 500m (with reflection)
Dimensions	: W130 x H165 x L280mm
Weight	: 2.0kg
Accuracy	: +/- (3mm +/- 30ppm x D)
Power supply	: AA nickel hydride battery x 4pcs
Operating time	: 20hours
Charging time	: 10hours
Accessory	: Reflecting board Nickel hydride battery x 4 Recharger Case



Accessories

CODE NO.	MODEL	REMARKS
212456	LP-100	Normal image



POCKET COMPASS



S-25

S-28

FEATURES

- Designed to be very handy and incorporate a lot of features
- The magnetic induction damper ensures quick magnetic reading

SPECIFICATIONS

Model	: LS-25, S-25, S-27, S-28
Telescope	: reversible, erect, 12X, 120mm long (except for S-28)
Telescope level	: 5'/2mm (LS-25)
Horizontal circle	: 5', "O-BAC" zero setting (LS-25 & S-25)
Compass circle	: Dia. = 70mm, 1deg.
Vertical circle	: Full circle, 1deg. (S-28 is semi-circle, 1deg.)
Weight with case	: 1.2kg (S-25), 1.1kg (S-27 & S-28), 1.3kg (LS-25)

CODE NO.	MODEL	REMARKS
082603	S-25	Tracon
082604	S-27	Pocket Compass
082605	S-28	Pocket Compass
082607	LS-25	Level Tracon

TRIPOD FOR POCKET COMPASS



NO.35

NO.33

FEATURES

- Extendable tripod for pocket compass
- Easy to carry
- Two types of material

SPECIFICATIONS

Model	: NO.33	NO.35
Full extended	: 1,350mm	1,350mm
Full closed	: 540mm	750mm
Weight	: 1.0kg	1.45kg
Section	: 3sections	2sections
Material	: Duralumin	Wood

CODE NO.	MODEL	REMARKS
041063	NO.33	Made of duralumin
041064	NO.35	Made of wood

POCKET COMPASS WITH LASER



FEATURES

- Small and portable laser distance meter
- Able to measure distances quickly and accurately
- No need measuring tapes or other measuring systems
- Quick measurement for 0.5sec at shortest

SPECIFICATIONS

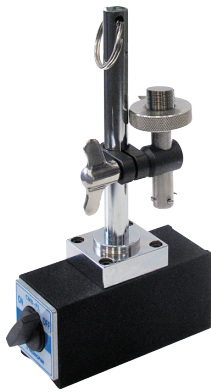
Compass circle	: Dia. = 70mm 1deg
Magnetic needle	: Induction damper employed
Vertical circle	: semi-circle, 1deg
Telescope	: Irreversible, erect, 12x
Power supply	: Size AA cell (2 pieces)
Weight (main body)	: 1,120g including batteries
Weight (case)	: 920g
Measuring range	: 0.2 ~ 150m (with reflector) / 50m (reflectortless)
Measuring accuracy	: +/- 1cm
Resolution in range	: 1cm
Laser power	: < 1mW
Wavelength	: 650nm (red)
Laser class	: Class 2
Measuring time	: 0.5 ~ 6seconds
Battery life	: 10,000 shots

CODE NO.	MODEL	REMARKS
218295	S-25	Horizontal circle (360) as option
218296	S-28	



SURVEYING ACCESSORY

MAGNET MOUNT FOR POCKET COMPASS CBL-PL-S



with a pocket compass

FEATURES

- Magnet mount for pocket compass
- Useful for checking electric line slack
- To set pocket compass directly to iron tower
- High power magnet

SPECIFICATIONS

Dimensions : 50 x 117 x 230mm
Weight : 3kg

CODE NO.	MODEL	REMARKS
218987	CBL-PL-S	Adsorption power : 1274N

LENSATIC COMPASS



9000L



3500

FEATURES

- Lensatic compass
- Excellent grade of compass
- Scale attached
- High precision
- Wide range of use

SPECIFICATIONS

Dimensions : 77mm x 57mm x 25mm (3500),
77mm x 52mm x 25mm (9000L)
Weight : 78g (3500), 118g (9000L)
Accuracy : +/- 2degree
Working temperature : -20 ~ 50degree
Azimuth : 0 - 6,400mil in 20mil (outer circumference)
0 - 360degree in 5degree (inner circumference)

CODE NO.	MODEL	REMARKS
082411	3500	Oil damper system
082420	9000L	Oil damper system

COMPASSGLASS



View

FEATURES

- Large compass ease to read
- Even midnight and in dead darkness, no illumination needed
- High and stable performance even at 10,000m of elevation
- High reliability even at 50m of depth in water
- Assures a constant field of view and stable performance

SPECIFICATIONS

Field of view : 10degree
Magnification : X 2.2
Graduation : Overall circumference divided by 360 and 15
Weight : 78g
Color : Black

CODE NO.	MODEL	REMARKS
219253	HB-3	
219254	HB-3L	with LED

COMPASS



NO.910



NO.825



160S

FEATURES

- Portable pocket compasses
- In various fields

SPECIFICATIONS

Model : NO.910 NO.825 160S
Dimension : 45mm dia. 45mm dia. 100 x 55 x 11mm
Weight : 23g 37g 42g

CODE NO.	MODEL	REMARKS
082422	NO.910	Oil damper system
082413	NO.825	Oil damper system
217484	160S	Thermometer attached



SILVA HEIGHT METER CM2015DEG-LA



FEATURES

- Quick and accurate measurement of vertical angles and heights
- Easy one hand operation
- Anodised aluminium alloy body
- Height scales for distances 15m / 20m to the object
- 0 ~ 90degree scale for slope

SPECIFICATIONS

Dimensions	: W75 x H53 x D16mm
Weight	: 110g
Sighting system	: Parallax-free glass lens magnification (10x)
Distance scales	: 15m and 20m
Accuracy	: within 1 - 1.5%

CODE NO.	MODEL	REMARKS
218520	CM2015DEG-LA	Height Meter

SILVA CLINOMETER CM360PA



FEATURES

- Quick and accurate measurement of vertical angles and heights
- Easy one hand operation
- Anodised aluminium alloy body
- Easy to obtain accurate readings even in dark conditions
- 0 ~ 90degree scale and 0 ~ 150% scale
- Heights can be calculated using the % scale

SPECIFICATIONS

Dimensions	: W75 x H53 x D16mm
Weight	: 120g
Sighting system	: Prismatic magnification (10x)
Scales	: 0 ~ 90degree scale and 0 ~ 150% scale
Accuracy	: within 1 - 1.5%

CODE NO.	MODEL	REMARKS
218521	CM360PA	Clinometer

CLINOCOMPASS CLN-C55



FEATURES

- Folding portable measuring tool
- Easy one hand operation
- Advanced clinometer & brunton type compass
- Enable precise geological survey

SPECIFICATIONS

Dimensions (open)	: L140 x W66 x H16mm (Cover 4mm)
Dimensions (close)	: L80 x W66 x H20mm
Weight	: 190g
Azimuth	: Quadrant 0-90-0degree (Min. reading : 2degree)
Needle length	: 50mm
Accessory	: Leather case

CODE NO.	MODEL	REMARKS
219255	CLN-C55	Clinocompass

CLINOMETER



FEATURES

- For tilt measurement and compass
- Easy horizontal and vertical measurement
- Useful for stratal survey
- Two types of frame

SPECIFICATIONS

Model	: CLN-MTI	CLN-MTI
Dimensions	: L107 x W60 x H16mm	L118 x W61 x H18mm
Weight	: 187g	133g
Graduation	: 2degree	2degree
Accessory	: Leather case	Leather case

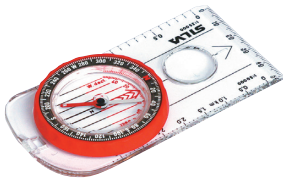
CODE NO.	MODEL	REMARKS
102553	CLN-MTI	Made of metal
102551	CLN-WDN	Made of wood



1 TRIPOD
2 PRISM
3 POLE
4 STAFF
5 GPS
6 SURVEYING INSTRUMENT
7 SURVEYING ACCESSORY
8 MEASURING TOOL
9 TESTING SECURITY

SURVEYING ACCESSORY

SILVA COMPASS RANGER



- FEATURES
 - SILVA standard model
 - Adjustment for local magnetic declination is built-in
 - Needle with luminous marking for night use
- SPECIFICATIONS
 - Dimensions : 106 x 54 x 10mm
 - Weight : 32g
 - Material : Acrylic
 - Measuring scales : 1:25k, 1:50k, mm

CODE NO.	MODEL	REMARKS
218516	RANGER	Standard model

SILVA COMPASS MODEL 54



- FEATURES
 - Combination of compass & baseplate
 - The most resourceful compass in the world
 - Available with betalight illumination
 - Easy to use as a precision sighting compass
 - Extremely accurate
 - Easy to use SILVA 1-2-3 SYSTEM
- SPECIFICATIONS
 - Dimensions : 126 x 60 x 16mm
 - Weight : 39g
 - Measuring scales : 1:25k, 1:40k, 1:50k, mm

CODE NO.	MODEL	REMARKS
218518	MODEL 54	Baseplate-sighting compass

SILVA COMPASS EXPEDITION S



- FEATURES
 - SILVA mirror-sighting compass
 - Adjustment for local magnetic declination is built in
 - Luminous marking for night use
 - Sighting hole gives accurate bearings
 - The cover can be used as a big mirror
 - Vertical angle/slope measurement available
- SPECIFICATIONS
 - Dimensions : 108 x 64 x 20mm
 - Weight : 86g
 - Measuring scales : 1:25k, 1:50k, mm

CODE NO.	MODEL	REMARKS
219249	EXPEDITION S	Mirror-sighting compass

HEIGHT MEASURING GAUGE BLSET



- FEATURES
 - Precision height measuring gauge
 - No need measuring tapes
 - Easy to use
 - No need to measure the horizontal distance to the target
- SPECIFICATIONS
 - Outer length : 143mm

CODE NO.	MODEL	REMARKS
122925	BLSET	Height measuring gauge

HAND LEVEL



R55 / 132mm



M80 / 200mm/5X



A54 / 133mm/5X



M70 / 195mm/5X



A65 172mm

- FEATURES
 - Standby level guide
 - Various types available
 - All items are in a leather case

CODE NO.	MODEL	REMARKS
102514	A65	172mm
102516	M70	195mm (5X)
102513	A54	133mm
102512	M80	200mm (5X)
102511	R55	132mm

HEIGHT MEASURING GAUGE VERTEX IV



- FEATURES
 - Easy to measure the height of standing objects, most often trees.
 - Operation can be done by oneself
 - Extreme small and light digital height measuring gauge
- SPECIFICATIONS
 - Dimensions : W98 x D55 x H30
 - Weight : 160g
 - Height resolution : 0.1m
 - Angular resolution : 0.1degree
 - Power supply : AA alkaline battery
 - Ultrasonic frequency : 25KHz
 - Height measurement : 0 ~ 999m

CODE NO.	MODEL	REMARKS
216020	VERTEXIV360	360degree
216021	VERTEXIV60	60degree



HEIGHT MEASURING GAUGE VERTEX LASER VERTEX LASER 360



VL402



Soft case



Extension pole



Holder with circular bubble



Spreader



Transponder T3

■ FEATURES

- Flexible and accurate height - distance and angle measuring
- Combination of laser method and ultrasonic method
- It provides results in feet or meters even when the target is not available to line of sight

■ SPECIFICATIONS

- Dimensions : 95 x 70 x 58mm
- Weight : 260g (with battery)
- Power supply : 1 x CR2 Lithium 3V
- Consumption : 60mW
- Operating temperature : -15degree C ~ +45degree C
- Height : 0 ~ 999m
- Height resolution : 0.1m
- Feet / Meter : Yes
- Angle : -55degree ~ +85degree
- Angles Deg / Grad / % : Yes
- Angle resolution : 0.1degree
- Angle accuracy : 0.1degree

Laser

- Measuring range : max 350m
130m ~ 900m (with reflector)
- Distance resolution : 0.5m under 100m
1m over 100m
- Distance accuracy : +/-0.25m under 100m
+/-1m over 100m
- Laser aim : Yes, 8x magnification
- ZipThru filter : Yes, over 140m
- Scan : Yes (continuous measuring)
- Feet / Meter : Yes

Ultrasonic

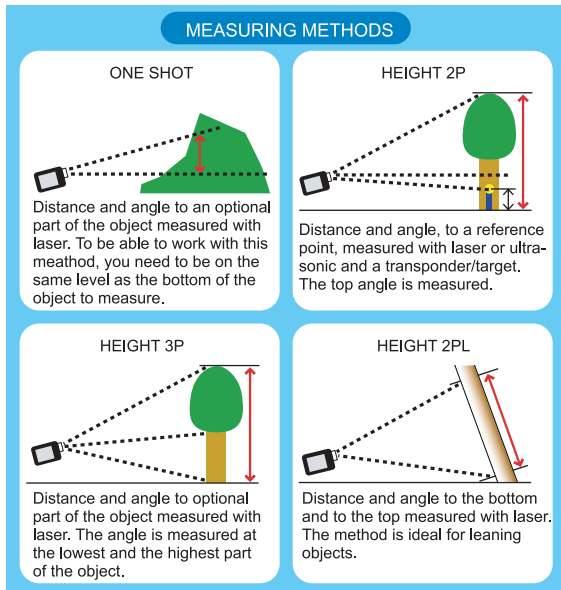
- Measuring range : 30m or better (T3 60deg.)
20m or better (T3 & adaptor 360deg.)
- Distance resolution : 0.01m
- Distance accuracy : 1% or better
- Vertex aim : Aim point, 1x magnification

Transponder T3

- Dimensions : 70mm diameter
- Weight : 85g with battery
- Battery : 1 x 1.5v AA Alkaline
- Consumption : max 9mW

■ CONTENTS

- VL402
- Transponder T3
- Soft case
- Extension pole
- Holder with circular bubble
- Spreader
- Operation manual



CODE NO.	MODEL	REMARKS
218991	VERTEX LASER 360	360degree type



SURVEYING ACCESSORY

SPRAY LINER SP-L



FEATURES

- Useful liner for concrete and asphalt pavement
- Set a marking spray to line easily (Marking spray is an option)
- For compartment line for parking lot, road, factory, warehouse and playground

SPECIFICATIONS

Dimensions : W180 x D82 x H870mm
Weight : 1,300g

CODE NO.	MODEL	REMARKS
212228	SP-L	W180 x D82 x H870mm

LINE CLEANER LC-1



FEATURES

- Easy to erase lines and signs marked on the ground by tracing with it
- Stable performance is available by the spring on the brush
- Free of dust
- Not only erasing but also cleaning
- No need to carry it up to move

SPECIFICATIONS

Dimensions : W101 x D24.5 x H24.5cm (Packaged)
Net weight : 2.2kg
Gross weight : 3.0kg

CODE NO.	MODEL	REMARKS
217611	LC-1	Handy type

MARKING TEMPLATE



MBN



MB70



MB170



MB300



MB300N



MB45A



MB100



MB47M



MB117M



FEATURES

- Nine types of marking sheet
- Six types of character height
- Can be applied to the curved surfaces
- Masking sheets help printing
- Easy to determine the marking position
- Cuttable

SPECIFICATIONS

Dimension : 270 x 440mm
Material : Polypropylene

INITIAL MEANING

KA : Klothoiden Anfang
KE : Klothoiden Ende
BC : Beginning of Curve
EC : End of Curve
IP : Intersection Point
MC : Middle of Curve



How to use

CODE NO.	MODEL	REMARKS
219421	MBN	Character height : 25/45/70mm 3 types
219422	MB45A	Character height : 45mm 2 types
211442	MB70	Character height : 70mm 4 types
211443	MB100	Character height : 100mm 4 types
211444	MB170	Character height : 170mm 6 types

CODE NO.	MODEL	REMARKS
219424	MB300	Character height : 300mm 10 types
219425	MB300N	Character height : 300mm 1 type
219427	MB47M	Character height : 45/70mm 1 type
219429	MB117M	Character height : 100/170mm 1 type
219833	MBSP	Remover (150ml)



CHALK HOLDER WITH CHALK CH series



■ FEATURES

- No need to touch a chalk directly
- Easy to put in a pocket
- Attachable to a metal by magnet

■ SPECIFICATIONS

Package quantity : 12 pcs/ carton (10 sets/ box for CH-SET)
Usable size : 9.8 ~ 12mm dia.

CODE NO.	MODEL	REMARKS
217184	CH-W	White
217185	CH-R	Red
217186	CH-Y	Yellow
215619	CH-SET	Set of above 3 colors

RAIN CHALK



■ FEATURES

- Usable in water
- Not to disappear in the rain
- Usable with chalk holder
- Working in all weather

■ SPECIFICATIONS

Package Quantity : 100pcs / box
Color : White / Red

CODE NO.	MODEL	REMARKS
102600	C801	White / 10pcs
122601	C803	Red / 10pcs
122606	C805	Yellow / 10pcs

DUSTLESS CHALK DCC series



■ FEATURES

- Made of calcium carbonate
- Ecology by long-lasting use
- Not to get dirty by special coating

■ SPECIFICATIONS

Box's size : W165 x H75 x D70mm
Weight : 800g

CODE NO.	MODEL	REMARKS
216849	DCC-72-W	White / 72pcs
216850	DCC-72-R	Red / 72pcs
216851	DCC-72-Y	Yellow / 72pcs

TOUGH CHALK



■ FEATURES

- Fluidity of writing
- Not to be easy to break
- Usable with chalk holder

■ SPECIFICATIONS

Quantity
C310 : 7 pcs of white with 1pc of red, blue, and yellow
C311 : 10 pcs of white
Master carton : 10 packs x 20 boxes x 12 boxes

CODE NO.	MODEL	REMARKS
122686	C310	7pcs of white, 1pc of red, blue & yellow
122687	C311	White / 10pcs

CLEAN CHALK CCH series



■ FEATURES

- Made of calcium carbonate
- Contains 10% of eggshell
- Not to attach powder by special coating
- CCH-2 can be identified by color deficient observer

■ SPECIFICATIONS

Size : 105 x 90 x 83mm
Weight : 850g

CODE NO.	MODEL	REMARKS
210418	CCH-1	White / 80pcs
210419	CCH-2	Red / 80pcs

ALL-IN-ONE ERASER



■ FEATURES

- Attachable on metal by magnet (CE-M)
- Come with 2 pcs of white and 1 pc of red chalk
- Compact and all in type
- With magnet type selectable (CE-M)

■ SPECIFICATIONS

Size : 85 x 45 x 20mm

CODE NO.	MODEL	REMARKS
211450	CE	No magnet type
218456	CE-M	With magnet type

BLACKBOARD ERASER



R-85 R-125 R-150

■ FEATURES

- Catching powders with surety
- 3 sizes Selectable

■ SPECIFICATIONS

R-85 : 108 x 56 x 30mm
R-125 : 174 x 74 x 45mm
R-150 : 180 x 80 x 56mm

CODE NO.	MODEL	REMARKS
052944	R-85	108 x 56 x 30mm
052945	R-125	174 x 74 x 45mm
052946	R-150	180 x 80 x 56mm



SURVEYING ACCESSORY

WATERPROOF MARKER MM-W

- FEATURES
 - For water resistant blackboard
 - Using water-base alcohol ink
 - Runproof by water after drying
- SPECIFICATIONS
 - Package quantity : 10 pcs / box



CODE NO.	MODEL	REMARKS
217187	MM-W	White

EXTRA THICK CHALK

- FEATURES
 - The best matching for surveying
 - Good for marking job
 - Usable on asphalt
- SPECIFICATIONS
 - Length : 25mm dia. x 110mm



CODE NO.	MODEL	REMARKS
213111	C391	White / 3pcs
213112	C393	Red / 3pcs
213113	C395	Yellow / 3pcs

GLOW CHALK

- FEATURES
 - Glow by black light or fluorescent light
 - Oil-based type
 - Not to easy to be erased by water
- SPECIFICATIONS
 - Package quantity : 100pcs/ box



CODE NO.	MODEL	REMARKS
211568	S15601	Red / 3pcs
211569	S15602	Pink / 3pcs
211570	S15603	Yellow / 3pcs

ROAD MARKER

- FEATURES
 - Not to easy to be erased by water
 - Can be used on wet surface
 - Can be used at -15 ~ +70 degree
- SPECIFICATIONS
 - Accessory : Holder



CODE NO.	MODEL	REMARKS
219035	S-20021	White / 10pcs
219036	S-20022	Yellow / 10pcs
219037	S-20023	Sky blue / 10pcs
219038	S-20024	Glow pink / 10pcs

RAIN CRAYON RC-W

- FEATURES
 - Not easy to erase
 - Usable on asphalt and concrete
- SPECIFICATIONS
 - Package quantity : 10 pcs/ box
 - Size : 11mm dia.



CODE NO.	MODEL	REMARKS
215960	RC-W	White / 10pcs

CRAYON CHALK C-WY51

- FEATURES
 - Easy to erase by wet cloth
 - Usable in the rain
- SPECIFICATIONS
 - Package quantity : 10 pcs/ box



CODE NO.	MODEL	REMARKS
215897	C-WY51	White / 10pcs

THICK MARKING CHALK

- FEATURES
 - Easy to grab by cotton work glove
 - Oil-based type
 - Not to easy to be erased by water
- SPECIFICATIONS
 - Package quantity : 100pcs/ box



CODE NO.	MODEL	REMARKS
217522	S30001	White / 12pcs
217523	S30002	Red / 12pcs
217524	S30003	Yellow / 12pcs
219033	S30004	Black / 12pcs
219034	S30035	Glow pink / 12pcs

WATERPROOF CRAYON

- FEATURES
 - Not to easy to be erased by water
 - Can be used on wet surface, metal and PVC pipe
 - Can be used at -15 ~ +70 degree
- SPECIFICATIONS
 - Size : 17 x 117mm



CODE NO.	MODEL	REMARKS
217525	S15510	White / 12pcs
217526	S15506	Red / 12pcs
217527	S15505	Black / 12pcs
218085	S15512	Glow pink/ 12pcs

