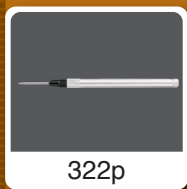




322p



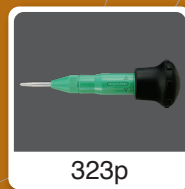
322p



322p



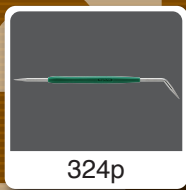
323p



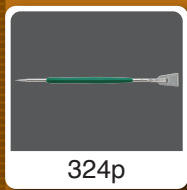
323p



323p



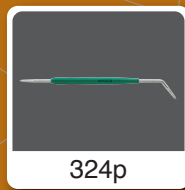
324p



324p



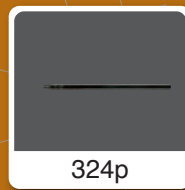
324p



324p



324p



324p

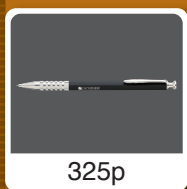


324p

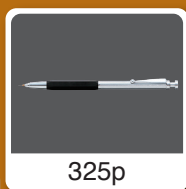
SCRIBER



325p



325p



325p



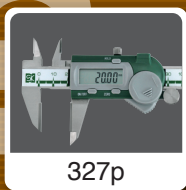
325p



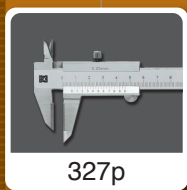
326p



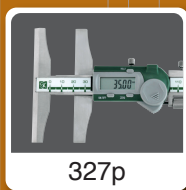
326p



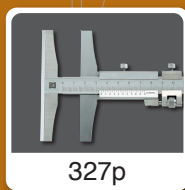
327p



327p



327p



327p



328p



328p



329p



329p



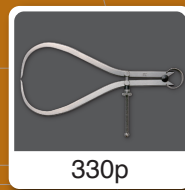
329p



330p



330p



330p



331p



331p

PUNCH

SCRIBER

DIVIDER

CALIPER

SURFACE GAUGE

COMBINATION CARBIDE TIP SCRIBER AND AUTOMATIC PUNCH [SS TYPE]

Ultra-Compact! An automatic punch with a total length of approximately 10 cm, even with the cap attached.

USE

- For scribing and punching tasks

MATERIAL

- Body: Aluminum (anodized)
- Tip: Tungsten carbide
- Tip hardness: HRA87

FEATURES

- No hammer required for punching (auto-return type)
- Tungsten carbide tip allows for scribing work
- Strap hole on the end of the body
- ※ Punching force adjustment is not available.



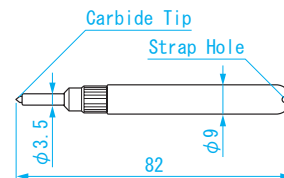
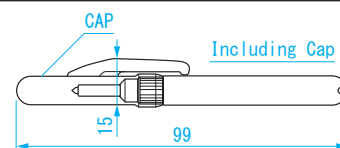
Punching Work



Scribing Work

● OUTLINE DIMENSIONS

Unit: mm



Replacement parts available P332

Order No.	Model No.	Weight
000011	AP-SS	14g

COMBINATION CARBIDE TIP SCRIBER AND AUTOMATIC CENTER PUNCH S

Long-seller product. For center-punching without hammer and for scribing.

USE

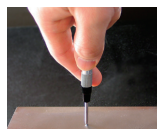
- For center punch and scribing work

MATERIAL

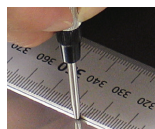
- Body: Aluminum (anodized)
- Tip: Carbide tip (G5)
- Tip hardness: HRA87

FEATURES

- Spring loaded, no hammer needed
- Can be used as center punch and as scriber
- Strength of the driving force can be adjustable by rotating the rear cap



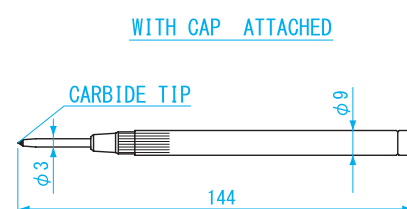
Punching work



Scribing work

● OUTLINE DIMENSIONS

Unit: mm



Replacement parts available P332

Order No.	Model No.	Weight
000001	AP-S	21g

CARBIDE TIP AUTOMATIC CENTER PUNCH M

Long-seller product. For center-punching without hammer.

USE

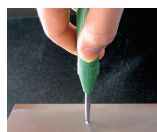
- For center punch

MATERIAL

- Body: Plastic
- Tip: Carbide tip (G5)
- Tip hardness: HRA87

FEATURES

- Spring loaded, no hammer needed
- Strength of the driving force can be adjustable by rotating the rear cap



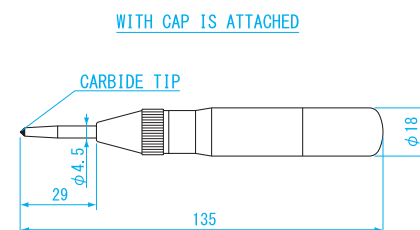
Punching work



Piercing empty spray can for safe disposal

● OUTLINE DIMENSIONS

Unit: mm



Replacement parts available P332

Order No.	Model No.	Weight
000002	AP-M	53g

CARBIDE TIP AUTOMATIC CENTER PUNCH M2

Long-seller product. For center-punching without hammer.



USE

- For center punch

MATERIAL

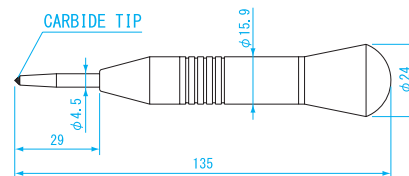
- Body: Brass (nickel plated)
- Tip: Carbide tip (G5)
- Tip hardness: HRA87

FEATURES

- Spring loaded, no hammer needed
- Strength of the driving force can be adjustable by rotating the rear cap

● OUTLINE DIMENSIONS

Unit: mm



Order No.	Model No.	Weight
000004	AP-M2	155g

CARBIDE TIP AUTOMATIC CENTER PUNCH L

Long-seller product. For center-punching without hammer.



USE

- For center punch

MATERIAL

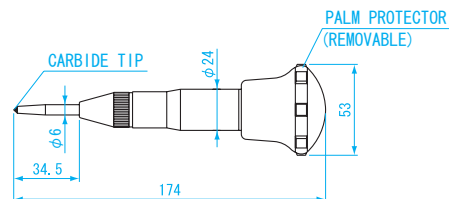
- Body: Plastic
- Tip: Carbide tip (G5)
- Tip hardness: HRA87

FEATURES

- Spring loaded, no hammer needed
- Strength of the driving force can be adjustable by rotating the rear cap
- Wide grip for palm protection. Can be used continuously without impact on hand.

● OUTLINE DIMENSIONS

Unit: mm



Replacement parts available P332

Order No.	Model No.	Weight
000003	AP-L	114g

PUNCH

SCRIBER

DIVIDER

CALIPER

SURFACE
GAUGE

CARBIDE TIP CENTER PUNCH

Long-seller product. For center-punching.



USE

- For punch work

MATERIAL

- Body: Sulfur free cutting steel
- Tip: Carbide tip (G5)

FEATURES

- Black oxide knurled grip
- Punchable material: Up to approx. HV520 (hardened steel)

TCP-M



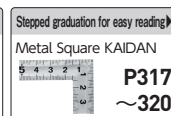
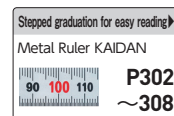
P370



Order No.	Model No.	Length (mm)	Knurled part Diameter (mm)	Tip angle	Weight
000021	TCP-S	77	φ 8	85°	23g
000022	TCP-M	100	φ 10		48g
000023	TCP-L	110	φ 15		115g
000024	TCP-LL	125	φ 17		170g
000025	TCP-XL	177	φ 20		310g

ETCHING SCRIBER

Long-seller product. Plated finish for anti-rust.



USE

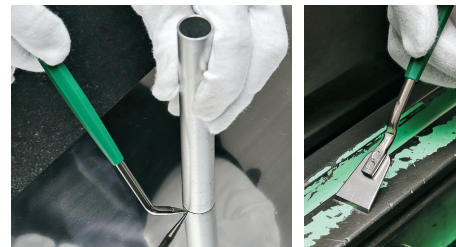
- For scribing work

MATERIAL

- Body: Carbon tool steel for machine use (nickel plated)
- Grip: Plastic
- Hardened tip
- Tip hardness: HV520~590

FEATURES

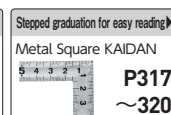
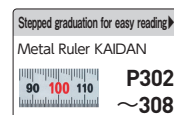
- Plated for rust-resistance



Order No.	Model No.	Length (mm)	Diameter (mm)	Grip Length (mm)	Grip Diameter (mm)	Spatula Width (mm)	Weight
000131	KS	227	5	127	(hex) 10	—	39g
000132	NS	240				20	42g

CARBIDE TIP ETCHING SCRIBER

Carbide tipped for better durability



USE

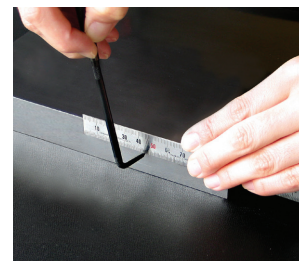
- For scribing and drawing on steel, brass, plastic and glass

MATERIAL

- Tip: Carbide tip (G2)
- Tip hardness: HRA87

FEATURES

- Carbide tipped for scribing on hard steel and glass
- Less abrasion, tipping and burrs
- Tip angle: 55°
- Replacement scriber tip sold separately (KW, A)



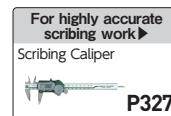
Order No.	Model No.	Length (mm)	Diameter (mm)	Grip Length (mm)	Grip Diameter (mm)	Material	Weight
000160	KW	224	4.5	—	—	Sulphur free-cutting steel	36g
000133	PST	227	5	127	(hex) 10	Sulphur free-cutting steel	39g
000180	A	170(stored·110)	5	97	φ10	Carbon steel	25g
000190	H	150	(hex) 6	—	—	Carbon tool steel	32g
000200	S	156	6	—	—	Carbon tool steel	25g

■ Replacement Rod

Order No.	Model No.	Specifications
000161	—	KW Straight Replacement Rod
000162	KW-B	KW Curved Replacement Rod
000181	—	A Replacement Rod

CARBIDE TIP SCRIBER

Pencil type for easy-to-carry.
Carbide tipped.



SC-P10

USE

- Scribing and drawing work on steel, brass, plastic and glass

MATERIAL

- Body: ABS resin
- Tip: Carbide tip (G2)

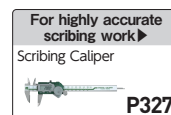
FEATURES

- Carbide tipped for scribing on hard steel and glass
- Less abrasion, tipping and burrs
- Cap with clip for storage and carrying

Order No.	Model No.	Size	Length (mm)	Diameter (mm)	Carbide tip Dia. (mm)	Carbide tip Angle	Weight
000260	SC-P05	0.5mm	125	10	0.5	50°	10g
000262	SC-P10	1.0mm			1.0		
000264	SC-P20	2.0mm			2.0		
000261	SC-PE05	Spare tip 0.5mm	—	—	0.5		2g
000263	SC-PE10	Spare tip 1.0mm	—	—	1.0		
000265	SC-PE20	Spare tip 2.0mm	—	—	2.0		

CARBIDE TIP SCRIBER

Pencil type for easy-to-carry.
Carbide tipped.



USE

- For scribing work

MATERIAL

- Body: Plastic (DX- metal)
- Tip: Carbide tip (G2)

FEATURES

- Clip for convenient carrying
- Scriber tip retracts into body like click pen
- Durable carbide tip for scribing on hard steel, glass etc.
- Less abrasion, tipping and burrs
- Tip angle: 50°



SC-P



SC-PDX

Order No.	Model No.	Standard	Tip Angle (mm)	Length (mm)	Diameter (mm)	Weight
000210	SC-P	—	1	145	7.2	19g
000215	SC-PDX	DX	1	132	8	25g

REPLACEMENT TIP (5pcs) FOR SC-P, SC-PDX

USE

- Replacement tip with tip holder for SC-P, SC-PDX

MATERIAL

- Tip holder: Brass
- Tip: Carbide tip (G2)

SPECIFICATIONS

- Tip Diameter: 1mm
- Applicable product: SC-P, SC-PDX

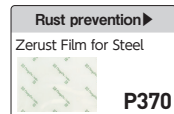
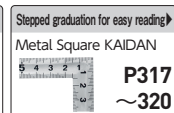
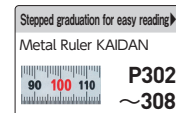
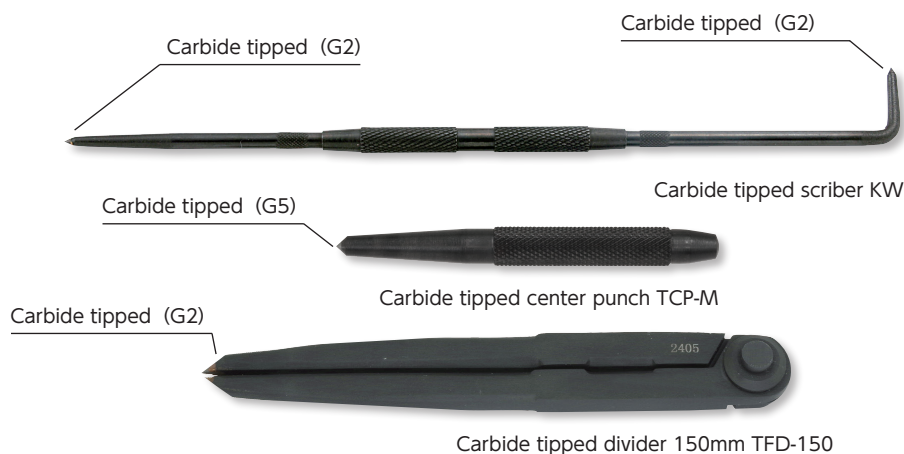


Order No.	Model No.	Quantity	Length (mm)	Weight (each)
000213	SC-PE5	5 本	40	1g

CARBIDE SCRIBING / ENGRAVING TOOL SET

Set of all carbide tipped tools

(TBFD-150)



USE

- For scribing materials such as glass, brass, plastic, copper
- For punch work
- For scribing circles and dividing distances

FEATURES

- Plastic carrying case

CONTENTS

- Carbide tipped scribe KW
- Carbide tipped center punch TCP-M
- Carbide tipped divider 150mm TFD-150 (one each)

Replacement parts available P324

Order No.	Model No.	Weight
000303	CTS-3	240g

PUNCH

SCRIBER

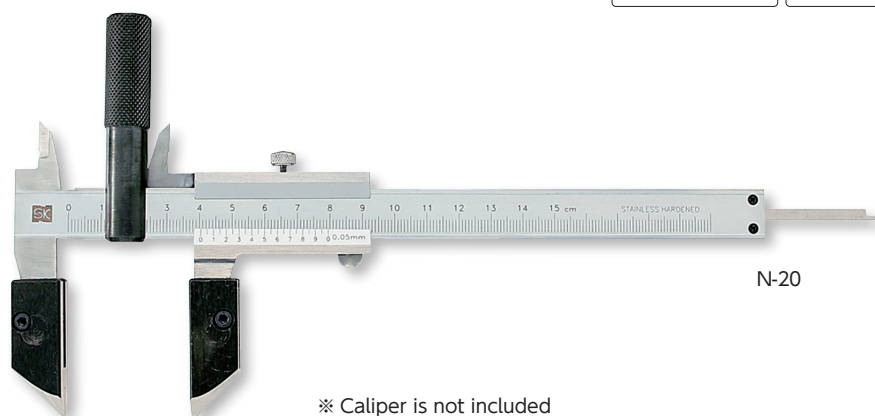
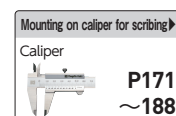
DIVIDER

CALIPER

SURFACE GAUGE

ATTACHMENT SCRIBER FOR CALIPER

Transform your standard caliper into a precision scribing caliper!



USE

- Mounting on caliper for scribing

MATERIAL

- Body: Carbon steel (black oxide coated)
- Tip: Carbide tipped (G2)

FEATURES

- Attach to the jaw of calipers for accurate scribing

ACCESSORIES

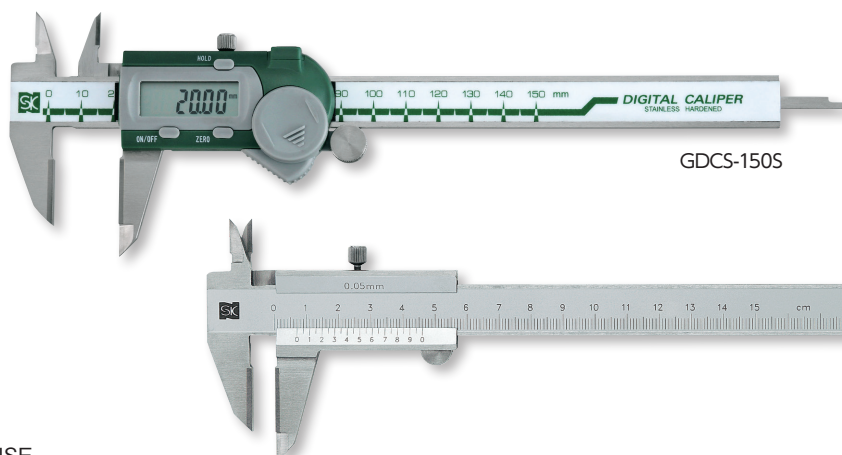
- Hex wrench

Order No.	Model No.	Applicable caliper size	Length (mm)	Groove Width (mm)	Weight
000112	N-20	150·200mm	43	4	175g
000113	N-30	250·300mm	72	4.5	425g

SCRIBING VERNIER CALIPER



For high precise scribing



GDCS-150S

TVC-15S

Reference standard for calibration▶	Rust prevention▶
Block Gauge	Zerust Film for Steel
P32 ~40	P370

※ Please refer to Page 189 for dimensions or detailed specifications for this item

USE

- Outside diameter, inside diameter, step and depth measurement, and also scribing

MATERIAL

- stainless steel

FEATURES

- Carbide-tipped measuring faces

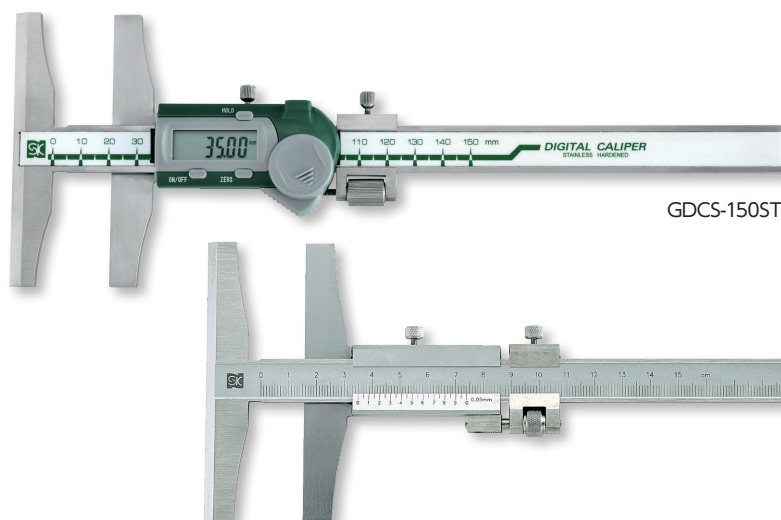


Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Weight
151983	GDCS-150S	0 - 150	0.01	170g
151279	TVC-15S		0.05	150g

SCRIBING VERNIER CALIPER



For high precise scribing



GDCS-150ST

TVC-15ST

For marking work▶	Rust prevention▶
Scribes	Zerust Film for Steel
P324 ~325	P370

※ Please refer to Page 190 for dimensions or detailed specifications for this item

USE

- Measures distance from caliper base to scribe edge

MATERIAL

- Stainless steel

ACCESSORIES

- Carbide tip scriber SC-P

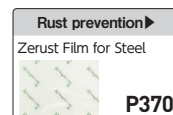


Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Weight
151995	GDCS-150ST	0 - 150	0.01	295g
151996	GDCS-300ST	0 - 300		360g
151803	TVC-15ST	0 - 150	0.05	240g
151804	TVC-30ST	0 - 300		370g

CARBIDE TIP FIRM JOINT DIVIDERS **NEW!**

0

An essential tool for fieldwork!
Adjustable riveted joints for extended use, even if loosened.



TBFD-200

USE

- For scribing arcs, circles, and dividing into equal parts.

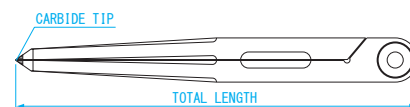
MATERIAL

- Body: Carbon steel for machine structural use (phosphate blackened)
- Tip: Carbide

FEATURES

- Equipped with a carbide tip, allowing scribing on hard steel, glass, and other materials
- Riveted joint with washers and pins

● OUTLINE DIMENSIONS



※ The compass radius values are approximate values measured at a 45° spread

Order No.	Model No.	Length (mm)	Compass Circle (mm)	Weight
NEW! 000421	TBFD-100	95	140	120g
NEW! 000423	TBFD-150	148	200	140g
NEW! 000424	TBFD-200	198	260	240g
NEW! 000425	TBFD-250	245	350	350g
NEW! 000426	TBFD-300	295	420	470g

PUNCH

SCRIBER

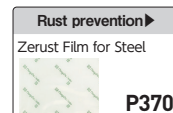
DIVIDER

CALIPER

SURFACE GAUGE

FIRM JOINT DIVIDER

Yarnished finish for anti-rust



FD-150

USE

- For scribing circles, and dividing distances

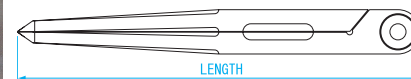
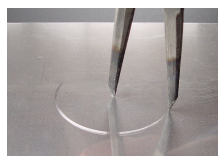
MATERIAL

- Body: Carbon tool steel for machine use
- Tip: Hardened tip

FEATURES

- Hardened tip for clear scribing
- Construction: Riveted with washer

● OUTLINE DIMENSIONS



※ Compass circle is approx. diameter of circle transcribed with jaws open 45° angle

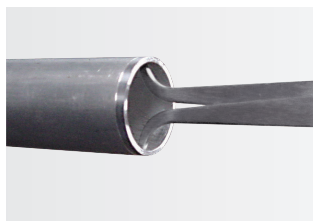
Order No.	Model No.	Length (mm)	Compass Circle (mm)	Weight
000503	FD-100	100	150	45g
000505	FD-150	150	230	135g
000507	FD-200	200	300	240g
000508	FD-250	250	380	340g
000509	FD-300	300	460	440g

INSIDE CALIPERS **NEW!**

An essential tool for fieldwork!
Convenient for transferring inner
diameter measurements.



IC-150

**USE**

- For transferring measurements of grooves and inner diameters

MATERIAL

- Cold-rolled steel (IC-150 to IC-200)
- Stainless steel (IC2-300 to IC2-600)

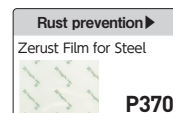
FEATURES

- Smooth opening and closing, allowing precise transfer of measurements to the scale

Order No.	Model No.	Nominal Size (mm)	Thickness (mm)	Weight
001105	IC-150	150	1.6	50g
001107	IC-200	200		60g
NEW! 001137	IC2-300	300	2.7	220g
NEW! 001138	IC2-400	400		300g
NEW! 001140	IC2-600	600		420g

OUTSIDE CALIPERS **NEW!**

An essential tool for fieldwork!
Convenient for transferring outer
dimensions of round bars, pipes, etc!



OC-150

USE

- For transferring measurements of the outer diameter and thickness of round bars

MATERIAL

- Cold-rolled steel (OC-150 to OC-200)
- Stainless steel (OC2-300 to OC2-1000)

FEATURES

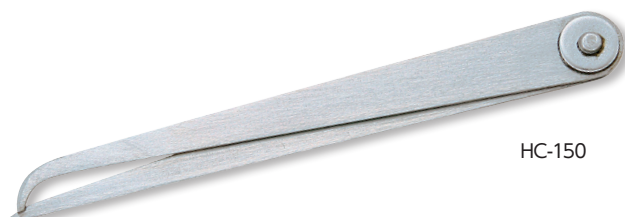
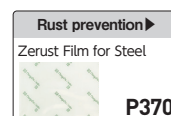
- Smooth opening and closing, allowing precise transfer of measurements to the scale



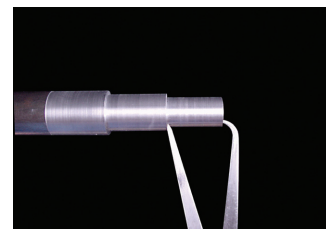
Order No.	Model No.	Nominal Size (mm)	Thickness (mm)	Weight
001205	OC-150	150	1.6	60g
001207	OC-200	200		75g
NEW! 001237	OC2-300	300	2.7	280g
NEW! 001238	OC2-400	400		360g
NEW! 001240	OC2-600	600		480g
NEW! 001242	OC2-1000	1000		1000g

HERMAPHRODITE CALIPER

For scribing lines at a specific distance from the edge



HC-150

**USE**

- For scribing lines at a specific distance from the edge

MATERIAL

- Cold rolled steel

FEATURES

- Smooth opening and closing, scribing on steel, brass and aluminum

Order No.	Model No.	Length (mm)	Thickness (mm)	Weight
001305	HC-150	150	1.6	50g
001307	HC-200	200		70g

PUNCH

SCRIBER

DIVIDER

CALIPER

SURFACE GAUGE

DIVIDER (SPRING TYPE)

For taking dimensions and scribing circles by fine adjustment



SD-150

USE

- Scribing circles, and dividing distance

MATERIAL

- Body: Carbon tool steel

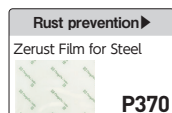
FEATURES

- Hardened tip
- Opening/closing screw is centrally located in the legs to assure sensitive and smooth action

Order No.	Model No.	Nominal Size (mm)	Length (Tip to Pivot Center)	Thickness (mm)	Weight
000805	SD-150	150	150mm	3.2	90g
000807	SD-200	200	200mm		115g

INSIDE CALIPER (SPRING TYPE)

For taking inner diameter by fine adjustment



SI-150

USE

- For taking inner diameter and groove dimensions

MATERIAL

- Body: Carbon tool steel

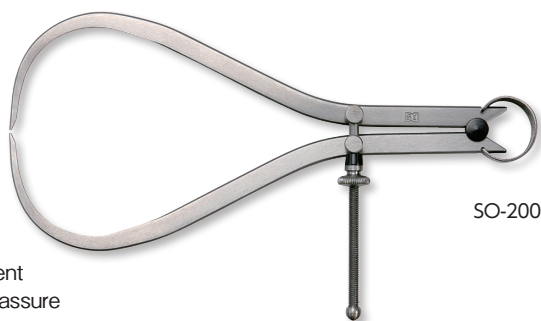
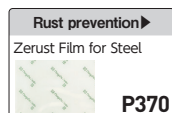
FEATURES

- Set to proper dimension, and move to ruler for measurement
- Opening/closing screw is centrally located in the legs to assure sensitive and smooth action

Order No.	Model No.	Nominal Size (mm)	Length (Tip to Pivot Center)	Thickness (mm)	Weight
000905	SI-150	150	150mm	3.2	85g
000907	SI-200	200	200mm		105g

OUTSIDE CALIPER (SPRING TYPE)

For taking outside diameter of pipe and round objects by fine adjustment



SO-200

USE

- For taking outside diameter and thickness of round objects

MATERIAL

- Body: Carbon tool steel

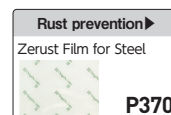
FEATURES

- Set to proper dimension, and move to ruler for measurement
- Opening/closing screw is centrally located in the legs to assure sensitive and smooth action

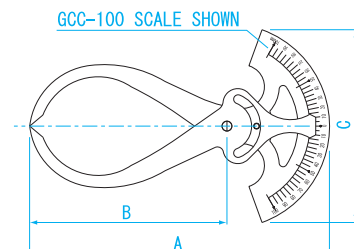
Order No.	Model No.	Nominal Size (mm)	Length (Tip to Pivot Center)	Thickness (mm)	Weight
001005	SO-150	150	150mm	3.2	95g
001007	SO-200	200	200mm		120g

COMBINATION CALIPER WITH METRIC GRADUATIONS

For measuring outside diameter, inner diameter and thickness, and taking dimensions as tips can be crossed



● OUTLINE DIMENSIONS



Unit: mm

Model No.	A	B	C	Thickness
GCC-100	152	100	98	1.5
GCC-150	225	150	143	
GCC-200	300	200	190	2.5
GCC-300	450	300	268	
GCC-400	600	400	360	
GCC-600	900	600	545	3.0

USE

- OD, ID, Thickness and groove measurement

MATERIAL

- Stainless steel (hardened tip)

FEATURES

- Graduated in millimeters from the center by photo etching on the head of the calipers
- Combination calipers are engineered for measuring both inner and outer diameters

Order No.	Model No.	Nominal Size (mm)	Graduation (mm)	Accuracy (mm)	Weight
002003	GCC-100	100	1	± 0.5	70g
002005	GCC-150	150			155g
002007	GCC-200	200			340g
002009	GCC-300	300			700g
002011	GCC-400	400			1040g
002014	GCC-600	600			2600g

PUNCH

SCRIBER

DIVIDER

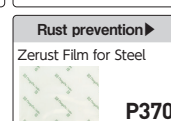
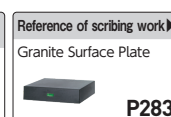
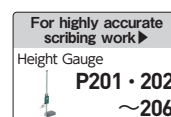
CALIPER

SURFACE GAUGE

TOOL MARKER SURFACE GAUGE



TSG-150C



USE

- Alignment work, scribing on steel

MATERIAL

- Scribe: Carbon tool steel (hardened scribe tip)
- Base: Cast iron

FEATURES

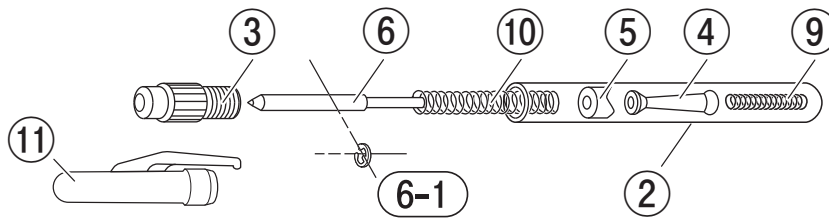
- Scribe height can be easily adjusted by sliding up or down in slotted hole



Order No.	Model No.	Nominal Size (mm)	Scribe Length (mm)	Length (mm)	Base Length (mm)	Base Width (mm)	Base Height (mm)	Weight
151188	TSG-150C	150	130	150	70	45	23	505g
151189	TSG-200C	200	170	200				560g
151190	TSG-300C	300	265	300	80	55	25	750g

AUTOMATIC PUNCH PARTS DRAWINGS

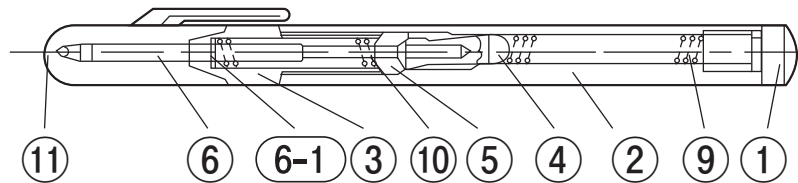
Automatic Center Punch SS



※The SS type does not have a cap bolt.
The striking force cannot be adjusted.

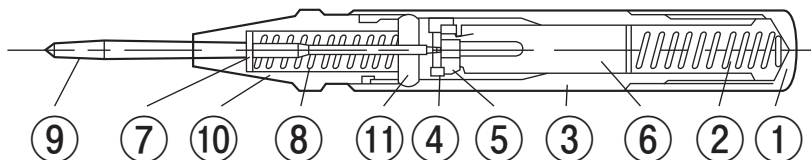
Parts No.	Parts Name	Parts No.	Parts Name	Parts No.	Parts Name
②	HAMMER GUIDE	⑤	ECCENTRIC GUIDE	⑨	MAIN SPRING
③	PILOT CAP	⑥	MARKER ROD	⑩	RETURN SPRING
④	HAMMER	⑥-1	E-RING	⑪	CAP

Automatic Center Punch S



Parts No.	Parts Name	Parts No.	Parts Name	Parts No.	Parts Name
①	PORT CAP	⑤	ECCENTRIC GUIDE	⑨	MAIN SPRING
②	HAMMER GUIDE	⑥	MARKER ROD	⑩	RETURN SPRING
③	PILOT CAP	⑥-1	E-RING	⑪	CAP
④	HAMMER				

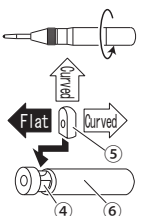
Automatic Center Punch M



●Impact strength adjustment (AP-S • AP-M • AP-M2)

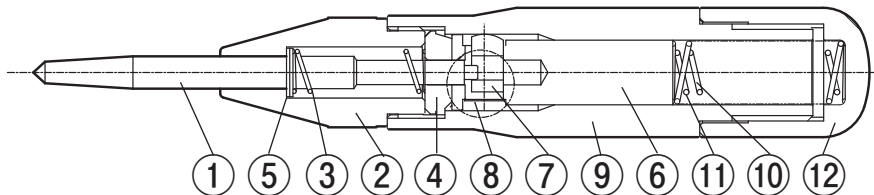


※After assembly, carefully loosen cap ①, gradually tighten cap while doing test shots to test impact.
If necessary to improve trigger response, impact strength should be increased.



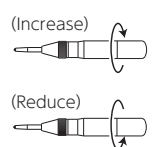
Parts No.	Parts Name	Parts No.	Parts Name	Parts No.	Parts Name
①	CAP	⑤	TRIGGER	⑨	MARKER ROD
②	MAIN SPRING	⑥	HAMMER	⑩	PILOT CAP
③	TRIGGER GUIDE	⑦	E-RING	⑪	GUIDE ROD
④	SPRING TRIGGER	⑧	RETURN SPRING		

Automatic Center Punch L



●Impact strength adjustment

※After assembly, carefully loosen cap ⑫, gradually tighten cap while doing test shots to test impact.
If necessary to improve trigger response, impact strength should be increased.



Parts No.	Parts Name	Parts No.	Parts Name	Parts No.	Parts Name
①	MARKING ROD	⑤	E-RING	⑨	TRIGGER GUIDE
②	PILOT CAP	⑥	HAMMER	⑩	MAIN SPRING
③	RETURN SPRING	⑦	TRIGGER	⑪	SUB SPRING
④	GUIDE ROD	⑧	SPRING TRIGGER	⑫	CAP