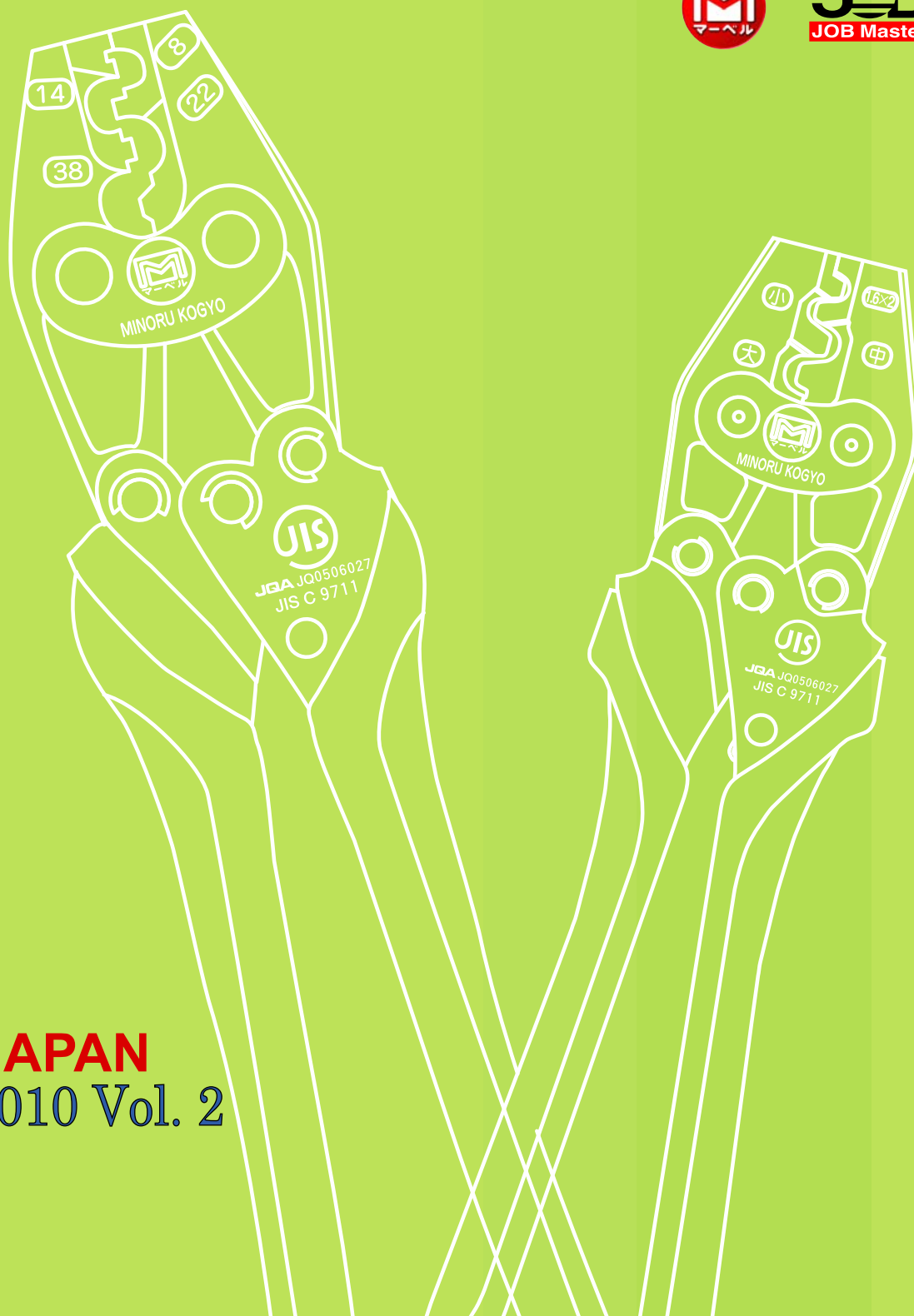


MARVEL

TOOLS GUIDE FOR PROFESSIONAL



JAPAN
2010 Vol. 2



JIS and ISO 9001 approved factory

JAPAN



Japanese Industrial Standards



Symbol of Standardization and
Absolute High Quality

ISO9001
Appendix



Certificate Number : JQA-2782

1 / 1

Organization :
MINORU INDUSTRY CO., LTD.
OKAZAKI FACTORY

Scope of Registration :

THE DESIGN / DEVELOPMENT, MANUFACTURE AND SERVICING (INHOUSE INSPECTION,
REPAIR AND SUPPLY OF REPAIR PARTS) OF CRIMPING TOOL, CABLE CUTTER AND WIRE
CUTTER.



Registration Date : November 13, 1998
Last Renewal Date : December 20, 2008
Expiry Date : December 19, 2011

Osamu Muramoto
OSAMU MURAMOTO
PRESIDENT

JAPAN QUALITY ASSURANCE ORGANIZATION

This Appendix is an integral part of the Certificate and should only
be used in conjunction with the Certificate.



2007-06-20/2010-04-01



CONTENTS

Crimping Tools 3 ~ 4



Cable Cutters 5 ~ 7



Strippers 8 ~ 9



Knives 10



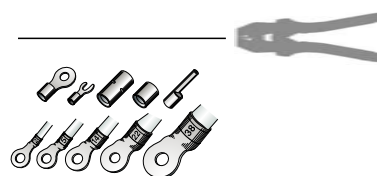
Fish Tapes 11 ~ 12



Others 13 ~ 17



Crimping Tools for non-insulated terminals



Crimping
Tools

Cable
Cutters

Strippers

Knives

Fish
Tapes

Others

Small, light, and easy to operate



JGA JQ0506027
JIS C 9711

Item No. **MH-5**

Length	176 mm
Weight	240 g
Terminal Sizes(JIS)	1.25, 2, 5.5



Item No. **MH-5S**

Length	176 mm
Weight	240 g
Terminal Sizes	1.25, 2, 3.5, 5.5



JGA JQ0506027
JIS C 9711

Item No. **MH-8**

Length	240 mm
Weight	380 g
Terminal Sizes(JIS)	1.25, 2.5, 5.5, 8



JGA JQ0506027
JIS C 9711

Item No. **MH-14**

Item No. **MH-14(DIN)**

Length	243 mm
Weight	405 g
Terminal Sizes(JIS)	1.25, 2.5, 5.5, 8, 14
(DIN)	1.5, 2.5, 6, 10, 16



Functional sizes



JGA JQ0506027
JIS C 9711

Item No. **MH-22**

Length	330 mm
Weight	654 g
Terminal Sizes(JIS)	5.5, 8, 14, 22



JGA JQ0506027
JIS C 9711

Item No. **MH-38**

Length	334 mm
Weight	686 g
Terminal Sizes(JIS)	8, 14, 22, 38



Crimping Tools for Insulated Terminals



All MARVEL MH- Crimping Tools are ratchet controlled, and give the same results whenever you use them.



Item No. **MH-3D**

Length	240 mm
Weight	445 g
Terminal Sizes(DIN)	1.5,2.5,6



Item No. **MH-3DM**

Length	240 mm
Weight	445 g
Terminal Sizes(DIN)	1.5,2.5,6
(AWG)	22-16,16-14,12-10

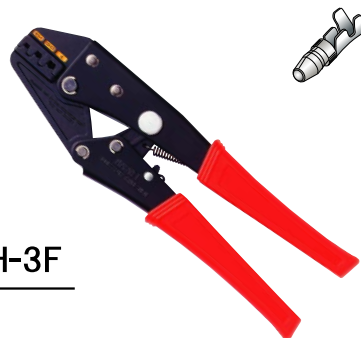
for Non-Insulated Terminals



Item No. **MH-4N**

Length	240 mm
Weight	425 g
Terminal Sizes(DIN)	1.5,2.5,6,10
(AWG)	22-16,16-14,12-10,8

for Chain Terminals



Item No. **MH-3F**

Length	230 mm
Weight	425 g
Terminal Sizes(DIN)	0.5-1,1.5-2.5,4

for Insulated Terminals



Item No. **MH-032**

Length	183 mm
Weight	250 g
Terminal Sizes(JIS)	0.3,0.5,1.25,2



Item No. **MH-155**

Length	244 mm
Weight	420 g
Terminal Sizes(JIS)	1.25,2,5.5

Cable Cutters for Copper Cable Only

Good Cross sectional result

Basic blade shape is designed for ideal cutting work - without distorting cut ends, maintaining integrity of cross section for subsequent stripping and crimping.

Light and Short

Using Special Light-weight Aluminum for the handles.

With MARVEL Cable Cutters

With Other Cutters



- Length : 315mm
- Weight : 730g

Item No. : **ME-80**

IV Cable	80mm ²
SV Cable	14mm ² x 3



- Length : 455mm
- Weight : 1,100g

Item No. : **ME-150**

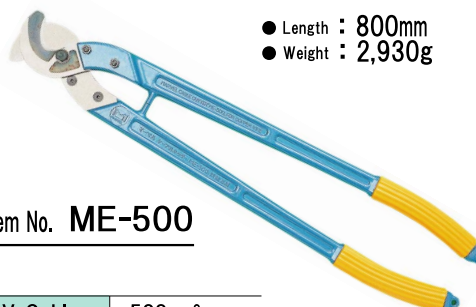
IV Cable	150mm ²
SV Cable	22mm ² x 3



- Length : 600mm
- Weight : 1,540g

Item No. **ME-250**

IV Cable	250mm ²
SV Cable	60mm ² x 3



- Length : 800mm
- Weight : 2,930g

Item No. **ME-500**

IV Cable	500mm ²
SV Cable	150mm ² x 3

Lighter Type Cable Cutters for Copper Cable Only

* Special Aluminum alloy pipe handles

* Replaceable blades



- Length : 500mm
- Weight : 980g

Item No. **ME-200N**

IV Cable	200mm ²
SV Cable	22mm ² x 3



- Length : 700mm
- Weight : 1,530g

Item No. **ME-400N**

IV Cable	400mm ²
SV Cable	80mm ² x 3



Cable Cutters

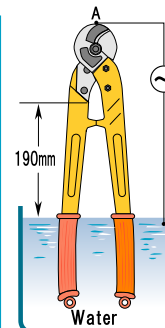
for Copper Cable Only



- * Fiber reinforced plastic handles show no breakdown of insulation in tests to 50,000V.
- * Blades of forged special tool steel, heat treated
- * Added safety

Test Conditions

- * 50kV, 60Hz alternating voltage applied for 1 minute
- * Temperature : 21 degree
- * Humidity : 61%
- * Test tool : ME-150S
- * Date : 12 Jan. 1980
- * Location : Osaka Prefectural Industrial Research Institute



- Length : 460mm
- Weight : 980g

Item No. **ME-150S**

IV Cable	150mm ²
SV Cable	22mm ² × 3



- Length : 615mm
- Weight : 1,500g

Item No. **ME-250S**

IV Cable	250mm ²
SV Cable	60mm ² × 3



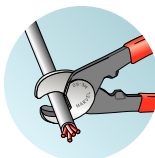
Cable Cutters

Small and Light Type

for Copper Cable Only



- Length : 160mm
- Weight : 160g



Item No. **ME-22**

IV Cable	22mm ² (φ 9.2)
----------	---------------------------



- * One hand operation
- * Without squeezing the cross section

- Length : 160mm
- Weight : 160g



With yellow
Cushion Grips

Item No. **ME-22C**

IV Cable	22mm ² (φ 9.2)
----------	---------------------------

- Length : 210mm
- Weight : 260g

Item No. **ME-38**

IV Cable	38mm ² (φ 11.4)
----------	----------------------------



- Length : 235mm
- Weight : 430g

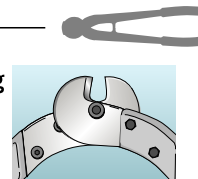
Item No. **ME-60**

IV Cable	60mm ² (φ 13.6)
----------	----------------------------



Rod and Wire Cutters

- * V-shaped blade profile for easy cutting of steel wire and rope without fraying
- * Double heat-treated drop-forged blades from special tool steel
- * Utility cutters for steel wire rope, mild steel rod
- * Handles of heat-treated aluminium alloy, light and strong
- * All parts are replaceable



Item No. **MI-60**

Length	310 mm
Weight	730 g
Steel Rod	φ5 mm
Wire Rod	φ7 mm
Copper Cable	60 mm ²



Item No. **MI-100**

Length	445 mm
Weight	1,100 g
Steel Rod	φ7 mm
Wire Rod	φ10 mm
Copper Cable	100 mm ²



Item No. **MI-200**

Length	600 mm
Weight	1,800 g
Steel Rod	φ9 mm
Wire Rod	φ14 mm
Copper Cable	150 mm ²

Rod and Wire Cutters

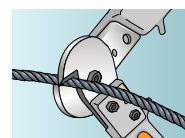
- * Harder and Tougher - Cutting edge of hardened high-speed steel supported by reinforcing backing of high carbon steel



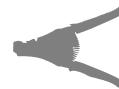
Item No. **MSH-65**

Length	585 mm
Weight	2,250 g
Steel Rod	φ11 mm
Wire Rod	φ16 mm
Copper Cable	150 mm ²
Piano Wire	φ4.5mm

- * Cut stainless steel wire rope, hardened steel rods, telegraph strainer and messenger wire.
- * Long handles and blade shape for optimum leverage.
- * Blades and heat-treated aluminium handle parts are replaceable.



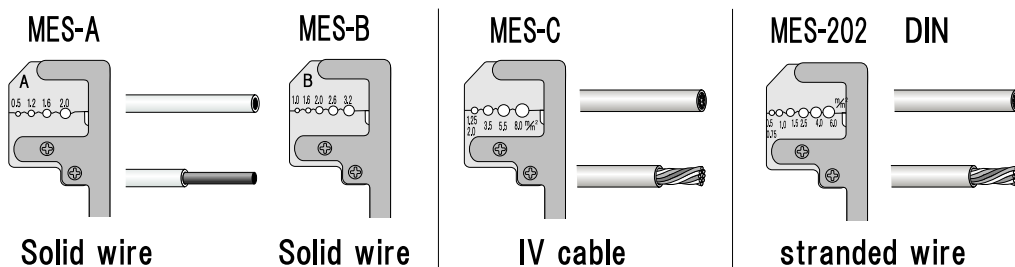
Wire Strippers



- * Strip cables smoothly with a single easy gripping action
- * Precisely machined cutting blades cleanly cut through insulation without damaging conductor inside.
- * Special tool steel, fully heat-treated.

Length : 180 mm

Weight : 365 mm



Item No.	Length mm	Weight g	Wire Sizes for JIS(dia.mm), for DIN (area mm ²)
MES-A	170	365	For JIS (mm) 0.5, 1.2, 1.6, 2.0
MES-B	170	365	For JIS (mm) 1.0, 1.6, 2.0, 2.6, 3.2
MES-C	170	365	For JIS (mm ²) 1.25, 2.0, 3.5, 5.5, 8.0
MES-202	170	365	For DIN (mm ²) 0.5/0.75, 1.0, 1.5, 2.5, 4.0, 6.0 – stranded wire

Crimping Pliers

DIN markings

Item No. **MS-235PN**

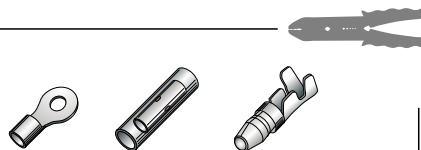
Length	230 mm
Weight	230 g
Insulated Terminal	0.5-6.0
Non-Insulated	0.5-2.5



- * High carbon steel
- * Fully heat-treated

Crimping Pliers

Multi-purpose Pliers



Common function for all MEB types

Bolt cutting range (ISO mm²) 2,6, 3,0, 3,5, 4,0, 5,0

Stripping range (cable area mm²) DIN 0,75, 1,0, 1,5, 2,5, 4,0, 6,0



MEB-100 - 600



MEB-100C, 300C, 400C and 500C
with Cushion Grips

Item No.	Length mm	Weight g	Crimping Terminal Sizes (mm ²)		
			Insulated	Non-	Chain
MEB-100	220	220	1,5, 2,5, 6	-----	-----
MEB-200	220	220	-----	1,5, 2,5, 6	-----
MEB-300	220	220	-----	-----	1,5, 2,5, INS
MEB-400	240	275	1,5, 2,5, 6	1,5, 2,5, 6	-----
MEB-500	240	275	1,5, 2,5, 6	-----	1,5, 2,5, 6
MEB-600	240	275	-----	1,5, 2,5, 6	1,5, 2,5, 6
MEB-100C	220	220	1,5, 2,5, 6	-----	-----
MEB-300C	220	220	-----	-----	1,5, 2,5, INS
MEB-400C	240	275	1,5, 2,5, 6	1,5, 2,5, 6	-----
MEB-500C	240	275	1,5, 2,5, 6	-----	1,5, 2,5, 6

Electricians' Knives



MEK-50



MEK-60



MEK-70

- * Folding Knives
- * Special high carbon steel or stainless steel blades
- * Designed to take rough handling and keep on cutting

MDX-01

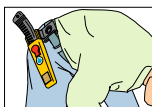


MEK-70M



Item no.	Blade Length	Length	Weight	Blade Material
MEK-50	50 mm	185 mm	110 g	Carbon
MEK-60	60 mm	195 mm	115 g	Carbon
MEK-70	70 mm	205 mm	120 g	Carbon
MDX-01	80 mm	195 mm	110 g	Stainless
MEK-70M	70 mm	205 mm	110 g	Stainless

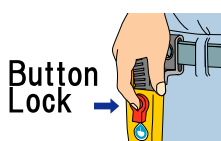
- * Keen cutting quality with double-edged blade.
- * Hanging the case on a belt, you can twist it and it will stay put.



Item No. LE-325

- Length : 234mm
- Blade : 80mm
- Weight : 250g (with case)
150g (knife only)

- * Knife is secure until button releases it.



- * Adjustable angle will stay sat hold
- * With special case holder
- * Replaceable blade



Item No. MCK-01

- Length : 185-215mm
- Blade : 45-75mm
- Weight : 140g (with case)
90g (knife only)



Cartridge Cutters

Grip : Ergonomically designed handle for comfortable in the hand feeling



Item No. JRK-806N

- * Blade : 0.6mm thickness
- * Blade material: carbon
- * 3 blades in cartridge



Item No. JSS-806

- * Blade : 0.6mm thickness
- * Blade material: stainless
- * 3 blades in cartridge

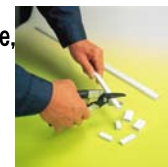
Handy Cutters

- * For molding, small copper cable, hose, tree branches, rope, etc



Item No. JHC-64

- * Tool Carbon Steel (SK-5)
- * Soft Grips
- * capacity : 20 mm
- * pieces don't scatter



Fish Tapes

- * Triple strands of polyester with coiled spring leader
- non-conducting, lighter, slips easily through more bends.



φ2.6mm x 3strands

- Diameter : φ5.7mm
- Breaking Strength : 6.4kN (650kgf)
- Safety Load : 2.9kN (295kgf)

Item no.	Length	Weight
MW-6015L	15 m	435 g
MW-6030L	30 m	870 g
MW-6050L	50 m	1420 g

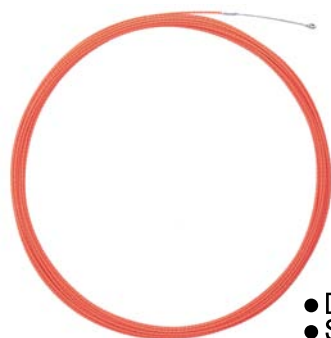
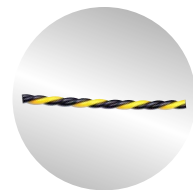


φ3mm+φ2.6mm x 2strands

- Diameter : φ6.2mm
- Breaking Strength : 7.4kN (750kgf)
- Safety Load : 3.4kN (346kgf)

Item no.	Length	Weight
MW-7015L	15 m	570 g
MW-7030L	30 m	1,140 g
MW-7050L	50 m	1,870 g
MW-7100L	100 m	3,740 g

triple stranded tapes
can reduce friction!



- Diameter : φ5.0mm
- Safety Load : 2.9kN (295kgf)

MW-530S (30m)

MW-550S (50m)

MW-430S (30m)

MW-450S (50m)

- Diameter : φ4.0mm
- Safety Load : 2.4kN (244kgf)



Plastic Holder

for FISH TAPES

- * Available for easy storage and arrangement



Item No.	Applicable Length
MWC-30	30m for MW-60 series
MWC-50	50m for MW-60 series 30m for MW-50, 70 series
MWC-50L	50m for MW-50, 70 series

Crimping
Tools

Cable
Cutters

Strippers

Knives

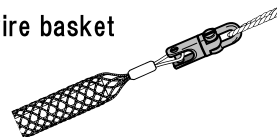
Fish
Tapes

Others

Cable Grips

for secure grip to pull cables and wires

- * Available with galvanized steel or rugged stainless steel wire basket
- * Flexible pulling loop goes round corners easily



Crimping
Tools

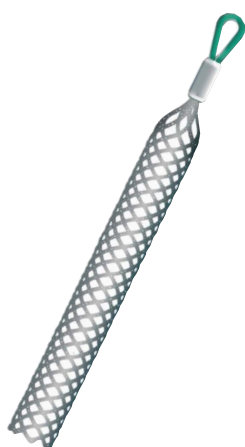
Cable
Cutters

Strippers

Knives

Fish
Tapes

Others



for terminal banding

Item No.	Cable Diameter (mm)	Length (mm)	Safety Load (kgf)
MG-10	7 - 12	315	300
MG-15	13 - 18	365	400
MG-20	18 - 24	465	600
MG-30	25 - 35	535	700
MG-45	35 - 48	715	1,100
MG-60	49 - 60	830	2,000
MG-75	60 - 75	930	2,000
MG-90	75 - 90	1,045	2,500
MG-105	90 - 115	1,170	2,500
MG-135	110 - 135	1,295	3,000
MG-150	135 - 150	1,395	3,000



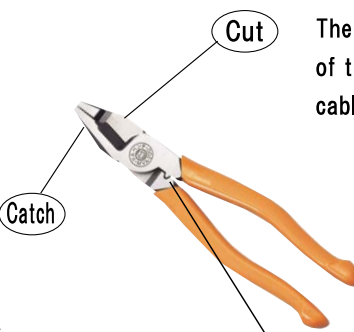
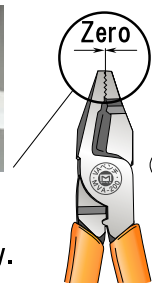
for intermediate banding

Item No.	Cable Diameter (mm)	Length (mm)	Safety Load (kgf)
MG-30M	25 - 35	705	700
MG-45M	35 - 48	870	1,100
MG-60M	49 - 60	975	2,000
MG-75M	60 - 75	1,110	2,000
MG-90M	75 - 90	1,210	2,500
MG-105M	90 - 110	1,350	2,500
MG-135M	110 - 135	1,450	3,000
MG-150M	130 - 150	1,600	3,000

VA Cable Cutting Pliers



Nose grips can grip thin materials firmly.



The scissor like action of the blades cuts the cables clearly without distortion.



Crimp

Terminal crimping die on the handle side of pivot.

Item No. **MVA-200**

- Length : 200mm
- Weight : 340g

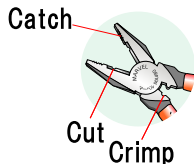
Capacity

	DIN	JIS
F Cable	$\phi 4.0\text{mm} \times 3$	$\phi 2.6\text{mm} \times 3$
IV Cable	25mm ² ($\phi 9.2\text{mm}$)	22mm ² ($\phi 9.2\text{mm}$)
Crimping	2.5 ~ 6.0mm	1.25 ~ 2mm ²

Electricians' Side Cutting Pliers

with Crimping Die

* Multi-purpose pliers for the electricians, incorporating a serrated plier nose, side cutters with a wire stripping hole, and a terminal crimping die on the handle side of the pivot.



- Length : 185mm
- Weight : 310g

Capacity

F Cable	$\phi 1.6\text{mm} \times 3$
Steel Cable	$\phi 2.0\text{mm}$
Copper Cable	$\phi 2.6\text{mm}$

Item No. **MA-380L**



- * Drop-forged carbon steel
- * Spring-loaded
- * Fully heat-treated

- Length : 200mm
- Weight : 400g

Capacity

F Cable	$\phi 2.0\text{mm} \times 3$
Steel Cable	$\phi 2.6\text{mm}$
Copper Cable	$\phi 3.2\text{mm}$

Item No. **MA-480**

Heavy Duty Lineman's Pliers

Item No. **MA-880**

- Length : 225mm
- Weight : 430g

■ Crimping : 2.5 ~ 6.0mm²



* A 9-inch tool combining all the features needed in a Electricians' Pliers - diamond pattern nose grip, extra long cutter blades, nut-turning hex, and crimping die.

- * Precise tip clearance
- * Extra long cutter blades
- * Heavy duty vinyl comfort grips

Round Nose Pliers

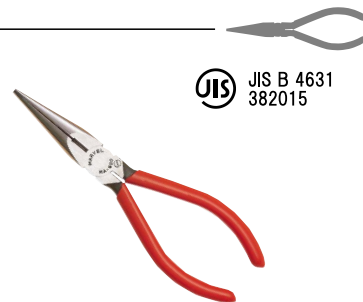
Item No. **MA-500** $\begin{smallmatrix} -125 \\ -150 \\ -200 \end{smallmatrix}$

- Length : 125mm 150mm 200mm
- Weight : 100g 125g 175g

Capacity

Steel Cable	φ 1.5mm
Copper Cable	φ 2.6mm

- * Standard round nose pliers for wiring, assembly and repair work, with long serrated inside jaws and bevelled side cutting blades.
- * Drop-forged carbon steel, fully heat-treated.
- * Ground head and dipped vinyl grips, or plastic grips.



 JIS B 4631
382015

Heavy Duty Cutting Nippers

Item No. **MA-620** $\begin{smallmatrix} -150 \\ -175 \end{smallmatrix}$

- Length : 150mm 175mm
- Weight : 160g 200g

Capacity

Steel Cable	φ 2.0mm
Copper Cable	φ 3.0mm

- * Tough nippers to handle hardened steel wires.
- * Drop-forged carbon steel.
- * Ground head with dipped vinyl grips.



 JIS B 4635
577140

Diagonal Cutting Nippers

Item No. **MA-600** $\begin{smallmatrix} -125 \\ -150 \end{smallmatrix}$

- Length : 125mm 150mm
- Weight : 100mm 125g

Capacity

Steel Cable	φ 1.6mm
Copper Cable	φ 2.6mm

- * Flush cutting nippers for soft wires.
- * Drop-forged carbon steel, fully heat-treated.
- * Ground head with dipped vinyl grips.



Cutting Nippers

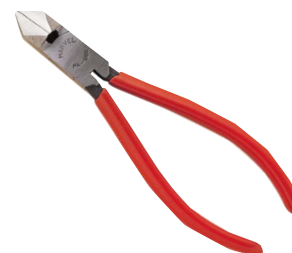
Item No. **MA-660** $\begin{smallmatrix} -125 \\ -150 \end{smallmatrix}$

- Length : 150mm
- Weight : 125g

Capacity

Steel Cable	φ 1.2mm
Copper Cable	φ 2.6mm

- * Nippers for easy flush cutting.
- * Drop-forged carbon steel, fully heat-treated.
- * Ground head with dipped vinyl grips, or plastic grips.



High Leverage Cutting Nippers

Item No. **MA-730** $\begin{smallmatrix} -200 \end{smallmatrix}$

- Length : 200mm
- Weight : 320g
- * for steel and copper wire

- * With a high leverage design and bevelled blades, these nippers lend themselves to heavy duty cutting work of steel wires.
- * Drop-forged carbon tool steel.
- * Black finish with polished jaws and dipped vinyl grips.



Hole Cutters



for thin steel, aluminum, plastic and vinyl, etc

High-Speed Steel Hole Cutters

MHE-12~MHE-100

■ Maximum plate thickness : Steel (1.6mm)



- * These long-lasting cutters allow fast cutting of accurately sized holes in steel and alloy sheet.
- * Available in 1 mm increments from 12 mm through 100 mm, for use with a hand held electric drill or drill press, they are particularly useful in electrical installation work.

for stainless and steel

Carbide Hole Cutters

MHT-15~MHT-100

■ Maximum plate thickness : Stainless (3mm)
: Steel (5mm)



- * Carbide tipped for smooth boring of rigid and hard materials such as vitreous enamel or stainless steel.
- * Carbide tips attached to a chrome molybdenum steel base by a high temperature brazing technique.
- * Available in 1 mm increments from 15 mm through 100 mm, for use with a hand held electric drill or drill press.

for stainless, steel, aluminium, plastic ALC, and Wood, etc

Bi-metal Hole Cutters

MHBI-16~MHBI-80

■ Maximum plate thickness : Steel (3.2mm)
: Stainless (1.6mm)



- * High quality high-speed steel and spring steel allow great cutting power.
- * Available in 1 mm increments from 16 mm through 80 mm, for use with a hand held electric drill or drill press.

Parts (Arbors, Drill or Cutter only) are available for each Hole Cutter

Crimping
Tools

Cable
Cutters

Strippers

Knives

Fish
Tapes

Others



Screwdrivers

- * Chrome vanadium steel, fully heat-treated shank, magnetic tip.



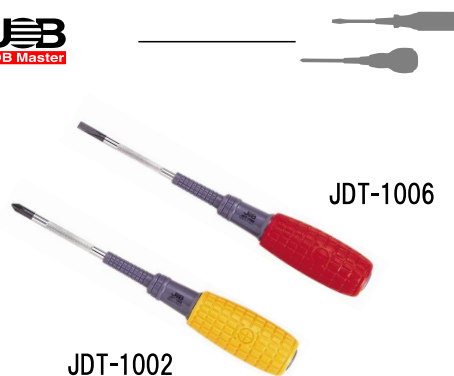
No.106 type

- * Comfortable fitting grip
- * Hexagonal bolster for wrench

No.250 type

- * Easily distinguish + from - by touching top of grip

- Length : 220mm
- Shank : 106mm
- Length : 195mm
- Shank : 100mm, 150mm



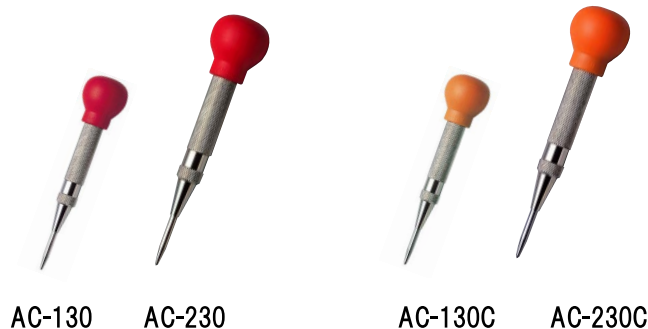
- * Nickel Chrome molybdenum vanadium steel.
- * Magnetic tip.

JDT-1002	+2 x 110mm
JDT-1006	-6 x 110mm



Automatic Center Punches

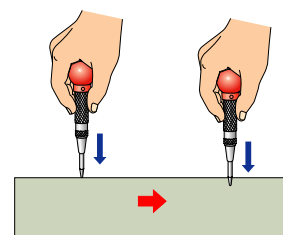
- * No hammer required.
- * Just press head down.
- * One hand operation.



(Heavy mark)

(Light mark)

The force of the blow is adjusted by turning the head.



Press head down at right angle till it clicks.

Item no.	Length	Shank Length
AC-130	130mm	25mm
AC-230	160mm	30mm

Carbide tipped point

Item no.	Length	Shank Length
AC-130C	130mm	25mm
AC-230C	160mm	30mm

Precision punching of metals, plastic and woods.

Hardened alloy tool steel point, knurled brass handle and plastic grip.

Carbide tipped point, knurled brass handle and plastic grip.

Auger Bits



MOD- Auger Bits



MOC- Auger Bits



MOC- EX (extension shank)

All of our bits are precision machined from high carbon alloy steel. They are highly concentric, a feature difficult to achieve by conventional forging techniques, and drill clean, accurate holes even when turned at high speed in power tools.

MOC- Auger Bits

Sizes : 6-36mm
Total Length : 225-330mm

- * These types have shanks to suit power tools. These are professional auger bits.
- * Ideal for electricians and contracting work.
- * These bits have unique colored markings to show the depth bored while the bit is turning.

MOD- Auger Bits

Sizes : 6-36mm
Total Length : 160-220mm

- * These types are convenient length auger bits with shanks for use in both hand turned bit braces or in power tools.
- * Bore fast, accurate holes in all types of wood.

MOC-L Auger Bits

Sizes : 10-36mm
Total Length : 450mm

- * Long grooved power shank.
- * Depth markings.
- * Long type auger bits.

MOC- EX

Sizes : 3/8"
Total Length : 450mm

- * Extension shank for MOC- Auger bits.
- * Inner Socket Diameter 12.7mm.