

ENGRAVERS

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ENGRAVERS

MANUAL AND DEFINITIVE

Markal® engravers and etching markers leave permanent marks that outlast crayon, ink and paint marks. Our high performance micro-percussion, electric arc, or air-powered engravers use various marking techniques for glass, steel, tools, ceramics, plastics and most other industrial surfaces and tools.

	BT.002	CA.003	PN.500	SC.862	SC.865
PERMANENT					
Metals					
Construction Steel	⊙	⊙	⊙	⊙	⊙
Stainless Steel	⊙	⊙	⊙	⊙	⊙
Copper	⊙	⊙	⊙	⊙	⊙
Nickel	⊙	⊙	⊙	⊙	⊙
Lead	⊙	⊙	⊙	⊙	⊙
Bronze	⊙	⊙	⊙	⊙	⊙
Alloy (Standard hardness)	⊙	⊙	⊙	⊙	⊙
Alloy (middle hardness)	⊙	⊙	⊙	⊙	⊙
Alloy (high hardness)	⊙	⊙	⊙	⊙	⊙
Plastics					
Clean, Dry	⊙	⊙	⊙	⊙	⊙
Glass, Ceramic					
Clean, Dry	⊙	⊙	⊙	⊙	⊙
Painted Surface					
Clean, Dry	⊙	⊙	⊙	⊙	⊙

⊙ Preferred Selection ⊙ Secondary Selection

CA. 003



Markal® CA.003 is an electric arc engraver designed to mark conductive metal surfaces. With 100 arcs/second the arc engraver will leave a highly visible, permanent black mark that can outlast crayon or paint marks.

Features & Benefits

- Burns deeply into the conductive metals using a 40 watt arc strength and 100 arcs/second for bold, permanent marks
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Other electrodes available in 1 mm, 1.3 mm, and 1.5 mm sizes for precise mark widths
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, engraver, pack of ten 1 mm electrodes, conductive plate receptacle and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO Industries Europe S.A.S. facility
- Quality-made in France since 1970
- CE approved

Industry Uses

Maintenance repair operations
Industrial manufacturing
Automotive and other transportation
Security and theft prevention
Welding
Quality control

Surface Uses

Tools
All conductive metals



Details



- 50421003 Complete machine
- 50422010 10 Electrodes 1.0 mm
- 50422013 10 Electrodes 1.3 mm
- 50422015 10 Electrodes 1.5 mm

Spare Parts



- 50400000 Transformer
- 50421001 Electric arc marking pen
- 50422011 Contact plate



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BT. 002

Markal® BT.002 is a micro-percussion engraver designed to mark on multiple surfaces including glass, hard plastic, and hardened metal surfaces. With 100 impacts/second the engraver will leave a permanent mark that can outlast crayon or paint marks.

Details



- 50411002 Complete machine
- 50412001 10 standard Tips
- 50412002 Carbide Tip

Spare Parts



- 50400000 Transformer
- 50411003 Micro-Percussion Pen

Features & Benefits

- Micro-percussion tool produces 100 impacts/second for bold, permanent marks on multiple surfaces
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Complete with one box of ten tips and one carbide tip for marking hard plastic, glass, and hardened steel
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, engraver, one carbide tip, one set of 10 standard tips, and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO Industries Europe S.A.S. facility
- Quality-made in France since 1970
- CE approved

Industry Uses

- Maintenance repair operations
- Industrial manufacturing
- Automotive and other transportation
- Security and theft prevention
- Welding
- Quality control

Surface Uses

- Tools
- Hardened steel
- Glass
- Wood
- Plastic



CC. 004

Markal® CC.004 is a micro-percussion and electric arc engraver set. The combination set provides flexibility for engraving any surface and will leave a permanent mark that can outlast crayon or paint marks.

Details



- 50421004 Complete machine
- 50422010 10 Electrodes 1.0 mm
- 50422013 10 Electrodes 1.3 mm
- 50422015 10 Electrodes 1.5 mm
- 50412001 10 standard Tips
- 50412002 Carbide Tip

Spare Parts



- 50400000 Transformer
- 50411003 Micro-Percussion Pen
- 50421001 Arc electric marking pen
- 50422011 Contact plate

Features & Benefits

- Engrave any surface with two unique engravers powered by one common transformer
- Micro-percussion tool produces 100 impacts/second for marking hard plastic, glass, and hardened steel
- Electric arc tool with 40 watt arc strength and 100 arcs/second burns a highly visible mark on all conductive metals
- Each engraver produces an accurate mark, and unlike crayons or paint, will not smear, crack, peel, or chip
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, micro-percussion and electric arc engravers, one carbide tip, one set of 10 standard tips, ten 1 mm electrodes, and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO® Industries Europe S.A.S facility
- Quality-made in France since 1970
- CE approved

Industry Uses

- Maintenance repair operations
- Industrial manufacturing
- Automotive and other transportation
- Security and theft prevention
- Welding
- Quality Control

Surface Uses

- Tools
- Hardened steel
- Glass
- Wood
- Plastic

PN. 500

Markal® PN.500 is an air-powered engraving machine that produces 500 impacts/second making this industrial product ideal for high volume assembly line operations. The pneumatic engraver will leave a permanent mark on most surfaces that can outlast crayon or paint marks.

Features & Benefits

- High-frequency impacts produce deep, highly-visible marks on various surfaces
- Ideal for continuous use on assembly lines or anywhere high-volume engraving is required
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- High-quality steel body for industrial applications
- No transformer : lightweight for easy operation
- Use compressed air supply (6 BAR maximum) to adjust depth of marks
- Long one meter connection hose for flexibility at work station
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Carbide tip 0.35 mm included
- Other tips available: 0.20 mm and 0.50 mm

Industry Uses

Industrial manufacturing
Automotive and other transportation
Quality control

Surface Uses

Steel
Alloy and super alloy metals
Glass
Plastic



Details



50431500 PN.500
50432001 CARBIDE TIP 0.20MM
50432002 CARBIDE TIP 0.35MM
50432003 CARBIDE TIP 0.50MM



SC. 800



Markal® SC.800 is an etching pen that releases acid on demand to permanently mark most metal surfaces. Use the SC.871 neutralizing solution to control the acid etching process. Two replacement cartridges are available for different metal etching applications

Features & Benefits

- Permanent etched mark for identification on various metal surfaces
- The acid etch produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Hand-held etching marker is portable; does not need a power or air supply
- Ideal for identification, security, and theft prevention
- Two replaceable cartridges:
 - SC.862 blue cartridge to etch steel used in construction or tools
 - SC.865 green cartridge to etch stainless steel, copper, nickel, lead, alloy, and bronze
- SC.871 neutralizing aerosol stops the etching process for improved control

Industry Uses

Maintenance repair operations
Metal fabrication
Industrial manufacturing

Surface Uses

Steel
Alloy and super alloy metals



Details

Acid pen



50121800 SC.800

Acid Refill



50122004 SC.862 blue
50122005 SC.865 green

Neutralizing spray



50122871 SC.871

