# Mimaki™

## CUTTING PLOTTER
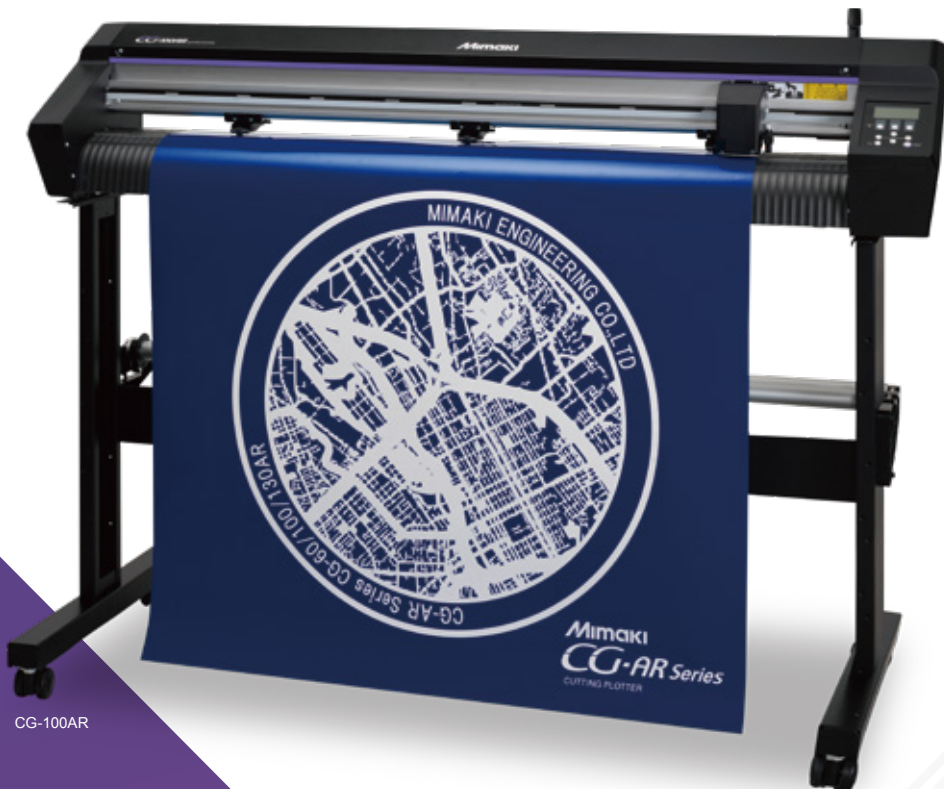# CG-AR Series
## CG-60AR/100AR/130AR

# "Stay sharp" More profit per cut



CG-100AR

- *Realizing a cut pressure of 550 g, which is the highest in the entry class, expanding the range of cuttable materials*
- *The maximum cutting speed is 105% of the previous model for greater productivity*
- *New lineup options for cardboard full cutting*
- *Easy to cut output from Windows plotter driver*
- *Equipped with an ID cut function, realizing efficient print & cut in seamless coordination with Mimaki's printers*

## Application



## Cardboard cutting



## Windows Compatible with a plotter driver

This smooth cutting is just like a multi-functional office printer outputting designs created using Word or Excel.

### Dedicated software provided as standard

**FineCut/Coat9**

Compatible with Adobe Illustrator / CoreIDRAW Plug-in cutting software

**Simple POP**

Software for POP and shop interior designs using templates

## A cutting pressure of 550 g, which is the highest in its class, expands the range of cut materials

The highest-in-class cutting pressure enables the cutting of various materials such as sheets (e.g. PVC/fluorescent/reflective/rubber sheets) and the cutout of cardboard.

### Pursuit of basic cutting methods

Material Mount

**Normal cutting**
Cutting while keeping the base paper uncut

**Full cutting**
The base paper can be also cut, enabling cutout from the sheet.

**Half cutting**
Since the base paper can be cut with its very small joints remaining, cutout of stickers is possible.

＊There are the specified settings and restrictions on cutting conditions for "Full cut" and "Half cut" methods, so please refer to the operation manual for details.

### Various convenient functions

**Over cutting and corner cutting**
Over cutting and corner cutting of starting & ending points and other corners are possible, which prevents incomplete cutting.
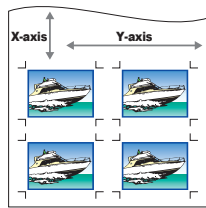
Over cutting ○   Corner cutting ○

Starting point & ending point

Other than starting & ending points

**Split cut**
Cut is performed by splitting a space larger than the sheet width or splitting long data in the X-axis (feed) direction and the Y-axis (width) direction to avoid cut position gap.

**Continuous register mark detection**
Since multiple register marks are automatically detected (read) and data are individually and automatically corrected, highly precise cutting is possible even for long continuous data.

X-axis   Y-axis

Multiple imposition data sequentially positioned in the X and Y axis directions are individually corrected and cut correctly.

## Cardboard cutting is possible

Dedicated options enable cutting from ordinary paper and cardboard. Creation of paper crafts and packages is possible with this machine alone. [*1 *2]
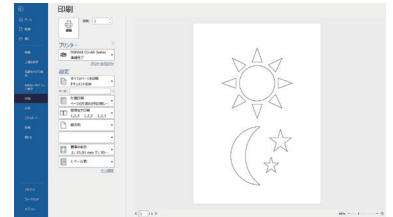
Installation of a sheet table → Setting cardboard attached to a cutting sheet on the table → Cutting is performed with a cardboard cutting blade, and the creasing-tool makes folding lines.

*1. Dedicated options: Sheet table, Cutting sheet, Blade for heavy paper, and Creasing tool
*2. Adaptable sizes: up to A3

## Easy cutting using a Windows plotter driver

Drawing is possible using Windows-compliant software (e.g. Microsoft Word and Excel), without the need for dedicated data preparation software. Easy cutting is possible, just like outputting with using a general office printer.
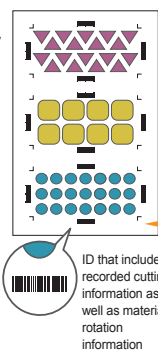
## Equipped with an ID cut function, realizing efficient print & cut

"ID cut" is a function for automatically cutting data included in an ID simply by scanning the ID register marks output by Mimaki's optionally available printer[*3]. Data transmission from the PC is completed with one-time operation, which drastically saves labor for print & cut and enhances work efficiency.

*3. Compatible with the JV300Plus Series and the JV/UJV100 Series

JV100-160 + CG-AR Series

**ID cut function**

(During cutting, unmanned operation is possible.) Continuous cutting

Specify data

ID that includes recorded cutting information as well as material rotation information

### Product specifications

| Item | | CG-60AR | CG-100AR | CG-130AR |
|---|---|---|---|---|
| Applicable media width | | 90 – 740 mm (3.5"– 29.1") | 90 – 1,250 mm (3.5"– 49.2") | 90 – 1,550 mm (3.5"– 61.0") |
| Cuttable area[*1] | | 606 mm × 51 m (23.9" ×167.3") | 1,070 mm × 51 m (42.1" ×167.3") | 1,370 mm × 51 m (53.9" ×167.3") |
| Maximum speed | | Cutting: 73 cm/s   45°direction: 103 cm/s | | |
| Settable speeds | | 1 - 10 cm/s (1 cm/s step adjustment), 10 - 73 cm/s (5 cm/s step adjustment) | | |
| Mechanical resolution | | X-axis: 2.5 μm, Y-axis: 5 μm | | |
| Program step | | 25, 10 μm (MGL-IIc) / 100, 50 μm (MGL-Ic1) | | |
| Repetition accuracy[*2] | | 0.2 mm / 2 m | | |
| Accuracy guarantee range | | 586 mm × 2 m | 1,050 mm × 2 m | 1,350 mm × 2 m |
| Maximum pressure | | 550 g | | |
| Set pressure | Cutter | 10 - 20 g (2g step), 20 - 100 g (5 g step), 100 - 550 g (10 g step) | | |
| | Pen | 10 - 20 g (2g step), 20 - 100 g (5 g step), 100 - 150 g (10 g step) | | |
| | Creasing tool (option) | 10 - 20 g (2g step), 20 - 100 g (5 g step), 100 - 550 g (10 g step) | | |
| Applicable (cuttable) media[*3 *4] | | PVC sheet (0.25 mm thick or less; laminated), rubber sheet, fluorescent sheet and reflective sheet | | |
| | | Cardboard (used in combination with an optional sheet table) | | |
| Usable tools[*5] | | Eccentric cutter, commercially available ball-point pen, Creasing tool (option) | | |
| Commands[*6] | | MGL-IIc / Ic1 | | |
| Interface | | USB, RS-232C, Ethernet | | |
| Receive buffer capacity | | About 27 MB as standard (17 MB when sorting is effective) | | |
| Operational environment | | Temperature: 5 to 35°C; Humidity: 35 to 75% Rh (without condensation) | | |
| Power supply | | AC 100 - 240 V 1A 50/60Hz | | |
| Power consumption | | 168W or less | 228W or less | |
| Dimensions (W × D × H) | | 1,010 × 355 × 355 mm (39.8" × 14.0" × 14.0") | 1,510 × 580 × 1,160 mm (59.4" × 22.8" × 45.7") | 1,810 × 580 × 1,160 mm (71.3" × 22.8" × 45.7") |
| | | 1,010 × 580 × 1,160 mm (39.8" × 22.8" × 45.7") (with the stand) | | |
| Weight | | 17 kg (37.5 lb) | 35 kg (77.2 lb) | 43 kg (94.8 lb) |
| | | 27 kg (59.5 lb) (with the stand) | | |
| Stand | | Options | Standard equipment | |

*1. Feed length is limited depending on the software used.
*2. The accuracy depends on Mimaki-designated media, cutter blade and cutting conditions. See the operation manual for details.
*3. For fluorescent and reflective sheets, use the blade dedicated to each material.
*4. Thick cardboard may reduce cut quality and precision.
*5. Use a commercially available ball-point pen with dia. 8-9 mm and without protrusion nor taper on the clamp position.
*6. During the use of USB or Ethernet connection, ESC-based MGL-IIc commands are unavailable.

### Supplies and options

| Item | Qty | Item No. |
|---|---|---|
| Standard blade for vinyl | 3 | SPB-0030 |
| Blade for vinyl | 3 | SPB-0001 |
| Blade for small character | 3 | SPB-0003 |
| Blade for reflective sheet | 2 | SPB-0006 |
| Blade for fluorescent sheet | 3 | SPB-0007 |
| Blade set (rubber sheet) | 3 | SPB-0084 |
| Blade for heavy paper | 3 | SPB-0092 |
| Cutter holder | 1 | SPA-0329 |
| Pen adapter | 1 | SPA-0169 |
| Pen adapter (spare lead) | 1 | SPA-0183 |
| Refill lead for Mitsubishi ball-point pen | 10 | SPC-0726 |
| Cutting sheet | 2 | SPC-0888 |
| Sheet basket 60 | 1 | OPT-C0234 |
| Sheet basket 100 | 1 | OPT-C0232 |
| Sheet basket 130 | 1 | OPT-C0233 |
| Stand for CG-60 | 1 | OPT-C0241 |
| Sheet table | 1 | OPT-C0242 |
| Creasing tool | 1 | OPT-C0243 |