GERBER DIMENSION 200®

TABLETOP DESIGN

EASY TO OPERATE

INDUSTRIAL STRENGTH RELIABILITY



Designed for dimensional sign making and engraving, the GERBER DIMENSION 200 offers precision graphic design routing along with dependability, flexibility, ease of use, and minimal maintenance. DIMENSION 200 can rout designs from a variety of materials—foams, plastics, woods, composites, and non-ferrous metals up to 2.25" thick—as well as draw all types of text and graphics. Incorporating a table-top design and measuring only 39" x 47", the DIMENSION 200 is perfect for creating smaller indoor signs using routing, engraving, and inlaying methods that feature channel letters, 3-D letters and graphics, and ADA standards.

STANDARD FEATURES

Directly supported by GERBER OMEGA™, GERBER GRAPHIX ADVANTAGE®, and ArtCAM, DIMENSION 200 works with a variety of design programs or directly imports AI, EPS, DXF or HPGL file formats. Regardless of the design program, GERBER ARTPath™ software prepares the design for routing by assigning user-defined tool paths with varying depths or multiple tools and outputting the job to the router. When used with design programs other than OMEGA or GRAPHIX ADVANTAGE, ARTPath's open architecture enables the importing of standard file formats for tool path generation.

ARTPath is feature-loaded to eliminate manual processes and minimize scrap. Its Auto-Inlay™ feature produces rounded corners on male and female shapes, so no manual filing is necessary. With the paneling feature, shops can work with panel sizes that are longer than the table, producing panels with no seams. And with its nesting feature, ARTPath positions shapes on the table for maximum material usage.

The hub of the DIMENSION 200 routing system is the **Advantage Router Controller (ARC) Station.** This station is the communication link between ARTPath and the router system. It sends/receives messages from the software program, displays messages, controls router movements, changes feed rates, and sets motor delays. Operators use the four function keys on the front of the panel to scroll through menu choices and select an operating mode.

DIMENSION 200's drive system employs an **anti-backlash lead screw** instead of the standard rack and pinion system. Located beneath the table and gantry, the lead screw drive mechanism is well protected from flying debris. The Teflon®-coated lead screws are self-cleaning so chip build-up is virtually impossible and it requires minimal maintenance and needs no lubrication.

The DIMENSION 200 includes a **chip removal system** that helps keep the work area clean during routing by vacuuming chips into a shop-supplied vacuum. And its pressure foot provides the necessary downward force to keep the cutting tool's force from lifting the workpiece. The system accommodates a 3 HP, 16-gallon vacuum or larger and includes a 2.5" diameter hose for connection to the vacuum. The chip removal system should be used when cutting plastic, foam, and wood and disconnected when pen plotting, scribing, or cutting metals such as aluminum or brass. When cutting metals, the **mist coolant option** is recommended—it applies a fine lubricant to the cutting tool, keeping the tool smooth and cool. This option requires .5 CFM at 60–100 psi of compressed air.

The **material hold down system** facilitates the material cutting process. When the material is securely held to the router, shops improve cut quality, expand cutter life, and increase feed rates. There are several methods of holding down material including clamps, T-VAC, tape, adhesive, or any combination of the those methods. The T-VAC utilizes the chambered T-slot worktable with pre-drilled vacuum pockets to hold a variety of materials and sizes.

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GERBER SCIENTIFIC PRODUCTS

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GERBER DIMENSION 200

TECHNICAL INFORMATION



SPECIFICATIONS

ACTIVE CUTTING AREA	35.4" x 31.4" (900 mm x 800 mm)
OVERALL SIZE	39" x 47" (990 mm x 1194 mm)
WEIGHT	300 lbs (661 kg)
MAX MATERIAL THICKNESS	2.25" (57 mm)
MAX MATERIAL WIDTH	37" (940 mm)
X, Y FEED RATE	54"/min (23 mm/sec)
Z FEED RATE	44"/min (19 mm)
MAX POSITIONING RATE	76"/min (32 mm/sec)
DRIVE SYSTEM	Stepper motor with anti-backlash leadscrew
CERTIFICATIONS	CE, ETL

OPTIONS

Motors: 1.35 HP high frequency spindle, 3¼ HP Porter Cable, or engraver
Engraver
Engraver vacuum
Gerber cool mist coolant system





02/05 Specifications are subject to change without notification. P78994A
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A Gerber Scientific Company

83 Gerber Road
South Windsor, Connecticut 06074 USA
860.643.1515 800.222.7446
www.gspinc.com