



**DGSHAPE Engraver** 

## INTUITIVE AND INTELLIGENT ENGRAVING







## Intuitive and Intelligent Engraving

### More than 30 years of engraving expertise in one device

The DGSHAPE DE-3 builds on over 3 decades of Roland engraving innovation to deliver impressive versatility and fast, user-friendly automated production. Featuring laser-pointing technology, ethernet connectivity, automatic depth regulation and a host of intelligent enhancements, the DE-3 offers simple set-up and operation to precisely engrave a huge range of delicate and durable materials such as brass, aluminium, copper, engraving laminates and plastics, wood items and more. Compact yet powerful, the DE-3 is the ideal engraving solution for use within office, classroom, workshop and retail environments.



### DESKTOP ENGRAVER



#### **Open Architecture and Intelligent New Software**

For optimum choice and versatility, the DE-3 works out-of-the box with popular engraving software, industry-standard tools and materials. Dr. Engrave Plus, included with the DE-3, offers exciting user benefits to maximise the ease and speed of production.



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USB

# Quick and Simple Production

make set-up and engraving quick and simple.

#### **Accurate Personalisation** at Your Fingertips

A laser pointer accurately defines the origin on the material. Set the engraving position

#### Precise Engraving

regulate engraving depth on the material surface, delivering consistent high-guality results.

#### Ethernet Connectivity for Flexible Production

multiple machine engraving. Power up your production with the DE-3.

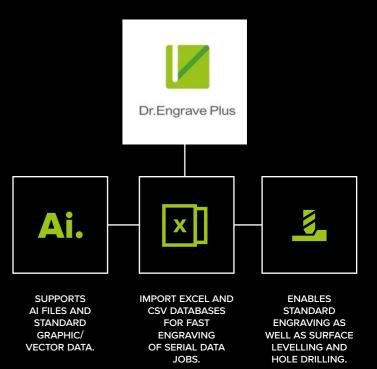
Model shown with optional centre vice

COFFEE

#### Discover a World of Applications with DGSHAPE Engraving

Whether you are an entrepreneurial print service provider looking to expand your portfolio, a manufacturer who wants to produce durable labels and signage in-house, or an awards and gifts supplier looking for a versatile personalisation solution to add value to your product line, the intuitive and intelligent DE-3 desktop engraver is the ideal turnkey solution for engraving precise text and graphics onto an impressive range of materials and objects. Offering a fully enclosed engraving area for safe and clean operation, with the DE-3 you can create custom signs, directional signage and nameplates for indoor and outdoor display. Personalise gifts, awards, promotional items and mementos to transform them into treasured high-value products. Produce highly durable industrial labels and benefit from variable data engraving functionality for a range of product marking applications.





#### Hand-Held Control

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DGS

Since 2







Specifications			
Work table size		305 mm x 230 mm	
Maximum work area (Work Envelope)		X, Y, Z: 305 mm × 230 mm × 40 mm	
XYZ axis drive system		Stepper motor, 3-axis simultaneous control	
Operating speed	XY axis	01 - 60 mm/sec.	
	Z axis	01 - 30 mm/sec.	
Software resolution		0.01 mm/step	
Mechanical resolution	XYZ axis	0.00125 mm/step	
Spindle Motor		Brushless DC Motor	
Spindle Speed		5000 - 20000 rpm	
Tool loading		Cutter Holder, Collet Type	
Maximum material thickness		40 mm (38 mm when using the nose cone)	
Connection		USB	
Machine language		RML-1	
<b>D</b>	Voltage and frequency	AC 100 to 240V ±10%, 50/60 Hz (overvoltage category: II, IEC 60664-1)	
Power supply	Rated current	1.0 A	
Power consumption		80 W	
Onersting	During operation	63 dB (or less)	
Operating noise	During standby	40 dB (or less)	
External dimensions		616 mm × 587 mm × 390 mm	
Machine weight		35 kg	
Installation environment		Indoor use, altitude: 2000 m or less, Temperature 5 to 40 °C, humidity 35 to 80% (no condensation), Environment pollution degree 2	
Included items		DGSHAPE software package CD, Power cable, Power adapter, USB cable, Nose cone unit (resin / metal components), Nose unit set screw (fixing screw, spring), Spare set screw (for cutter holder), Solid collet (Ø 3.175 mm), Spanner wrench, Hex wrench, Hex driver, Adhesive sheet, Dust collector adapter, Setup Guide	

Specifications, designs and dimensions listed may be subject to change without notice.

Accessories - Cutters						
Item	Model	Description				
	ZEC-A2013	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 0.127 mm (W)				
	ZEC-A2025	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 0.254 mm (W)				
	ZEC-A2051	Cemented carbide dia. = $3.175 \text{ mm x} 114 \text{ mm}$ (L) x 0.508 mm (W)				
Engraving cutters (for plastic)	ZEC-A2076	Cemented carbide dia. = $3.175 \text{ mm x} 114 \text{ mm}$ (L) x $0.762 \text{ mm}$ (W)				
	ZEC-A4013	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 0.127 mm (W)				
	ZEC-A4025	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 0.254 mm (W)				
	ZEC-A4051	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) $\times 0.508 \text{ mm}$ (W)				
	ZEC-A4076	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) $\times 0.762 \text{ mm}$ (W)				
	ZEC-A2013-BAL	Cemented carbide dia. = $3.175 \text{ mm x} 114 \text{ mm}$ (L) x 0.13 mm (W)				
Engraving cutters	ZEC-A2025-BAL	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 0.25 mm (W)				
(for aluminum or brass)	ZEC-A4013-BAL	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) $\times 0.13 \text{ mm}$ (W)				
	ZEC-A4025-BAL	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 0.25 mm (W)				
	ZEC-A2150	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 1.52 mm (W)				
	ZEC-A2190	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 1.91 mm (W)				
	ZEC-A2230	Cemented carbide dia. = $3.175 \text{ mm x} 114 \text{ mm}$ (L) x $2.29 \text{ mm}$ (W)				
	ZEC-A2320	Cemented carbide dia. = $3.175 \text{ mm x} 114 \text{ mm}$ (L) x $3.175 \text{ mm}$ (W)				
Parallel engraving	ZEC-A4150	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) $\times 1.52 \text{ mm}$ (W)				
cutters (for plastic)	ZEC-A4190	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 1.91 mm (W)				
	ZEC-A4230	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 2.29 mm (W)				
	ZEC-A4320	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 3.175 mm (W)				
	ZEC-A4380	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 3.81 mm (W)				
	ZEC-A4430	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) $\times 4.34 \text{ mm}$ (W)				
	ZEC-A2013-QR	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 0.13 mm (W)				
Quarter round cutters	ZEC-A2025-QR	Cemented carbide dia. = 3.175 mm x 114 mm (L) x 0.25 mm (W)				
(for plastic)	ZEC-A4013-QR	Cemented carbide dia. = $4.36 \text{ mm} \times 165 \text{ mm}$ (L) x 0.13 mm (W)				
	ZEC-A4025-QR	Cemented carbide dia. = 4.36 mm x 165 mm (L) x 0.25 mm (W)				
Diamond engraving	ZDC-A2000	Diamond dia. = 3.175 mm x 127 mm (L)				
cutters	ZDC-A4000	Diamond dia. = 4.36 mm x 178 mm (L)				

Other Accessories and Consumables					
Item	Model	Description			
	ZC-23	Diameter 6 mm, 5 mm, 4 mm, and 3 mm collets: 1 pc. each			
	ZC-23-3	Diameter 3 mm collet: 1 pc.			
Collets for end-mill	ZC-23-4	Diameter 4 mm collet: 1 pc.			
	ZC-23-6	Diameter 6 mm collet: 1 pc.			
	ZC-23-3175	Diameter 3.175 mm collet: 1 pc.			
	ZC-23-6.35	Diameter 6.35 mm collet: 1 pc.			
Collet for 4.36 diameter cutters	ZC-E436	Diameter 4.36 mm collet: 1 pc.			
Nose cone	ZDN-200 (Metal)	Inner diameter 2 mm, outer diameter 4.2 mm, for engraving text			
Nose cone	DN-500R (Plastic)	Inner diameter 5 mm, outer diameter 8 mm, for engraving text			
Spindle unit	ZS-35S	Replacement spindle unit			
Adhesive sheet for securing material	AS-10	210 mm x 140 mm, 10 sheets			
Centre vice	ZV-23CS	Loadable material using jig for nameplate: 152 mm (X) × 148 mm (Y), and 35 mm (H) Loadable material using jig for either pen or tube: 90 mm (X) × 146 mm (Y), and max. 20 mm thick			
T-slot table	ZTT-35	Table size: 292 mm (X) x 220 mm (Y) Dimensions: 355 mm (W) x 230 mm (D) x 40 mm (H)			

dia. = shank diameter, L = overall length, W = blade width, unit = mm All 4.36 diameter tools require ZC-E436 Collet

#### Roland Care Warranty

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Enjoy the peace of mind of having one of the most comprehensive warranty packages in the industry, included with the DE-3.

#### DGSHAPE Corporation

At the forefront of advanced machine manufacturing for more than 35 years, Roland provides practical and reliable technology with unmatched service and support. DGSHAPE further builds on this reliability promise by improving user experience with fast and effortless engraving machines, designed for those just starting out and for engraving experts looking for a more intuitive solution.

DGSHAPE reserves the right to make changes in specifications, materials or accessories without notice. Actual device output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your DGSHAPE dealer for details. No guarantee or warranty is implied other than that expressly stated. DGSHAPE shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. All trademarks are the property of their respective owners. Three-dimensional data files may be protected under copyright. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. DGSHAPE Corporation has licensed the MMP technology from the TPL Group.



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