

MIDAS
TECHNOLOGY, INC

for microelectronic rework

de-lidder™

model
D5F8

5th Generation Flat Rail Unit
for Oversized Optical
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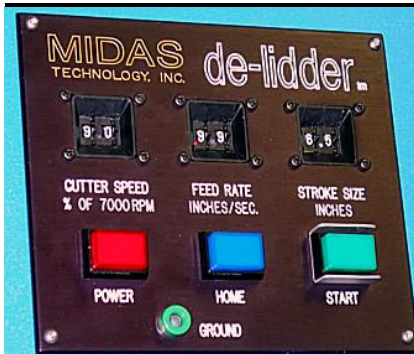


DESCRIPTION

The **de-lidder™** machine family removes lids from hermetic packages for rework, quality control and failure analysis. Our proprietary carbide tools mill smoothly through the welded outside edge of the lid flange, freeing the lid and leaving a reseal-ready package surface. The time-proven process protects packages from particles, vibration, and dimensional changes, so parts can be de-lidded multiple times with pushbutton ease. This year's new models offer enhanced precision, operator-friendliness and safety that demonstrate our twenty years of de-lid specialization.

WHAT'S NEW FOR '07?

Integrated Flat-Rail Carriage System with Optical-Encoding Servomotor Drive



Our 20th Anniversary, Generation-5 product line embodies the biggest design improvements since our DL-4 introduction in 1991. They offer many benefits including reduced cycle time. The new drive's upgraded panel controls allow feed rate setting in inches per second (.01 ips resolution) and stroke size accurate to .01", allowing simpler positioning for tool replacement as well as autocenter for turntable mounting. Home position auto-locates on power-up, with easily-programmed offset for custom fixtures. Two-way cutting with vacuum is pushbutton selectable. Anything interfering with table movement (such as a tool) causes a quick and safe stop. Program diagnostics report any error codes via control panel lamps. And our optional particle control system, including lid, pipe, hoses, and cowlings is now fully conductive for enhanced ESD control.

D5F8 APPLICATIONS *email SALES@MIDASTECHNOLOGY.COM to request our CDROM presentation.*



The D5F8 de-lidder™ is larger than our standard D5L6 (DL-4A size) model, so it can handle oversized modules as well as all smaller packages such as common rectangular butterfly and DIPs which can be secured with the lid flat on the work surface. In addition D5F8 has special features to safely accommodate attached optical fibers. The datum stop (*horizontal reference*) is low profile steel to fit under side leads and ferrules. The holddown slides back out of the way, for safer package fixturing, and expansive coil trays protect fibers from damage.

OTHER STANDARD MODELS

Remember custom and oversize models are also available!



For round packages & TO headers ask about our optional D5RT Turntable Module. The rotary-only D5R3 model is your answer for long-leaded headers.



Standard 6" travel D5L6 model handles hermetic sealed rectangular packages and headers, including ceramic packages with seal rings and MCMS.




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de-lidder™

model
DL-FA



SPECIFICATIONS	Description	Feature/Advantage
Controls	Power, Table Start, Table Home, Cutter Speed, Precision Table Feed Rate and Stroke Size	<i>Intermediate Stop & Start for multiple & complex Parts</i>
Adjustments	Torque-Limited Holddown Pressure, Precision Cut Depth (.0005" - .015"), and Width (0-.150")	<i>Avoids substrate cracking, gives highly repeatable results.</i>
Program Options	Input datum offset to relocate tool start point, select/deselect tool operate on home	<i>Minimizes cycle time with different fixtures, improves surface finish</i>
Diagnostics	Panel lights flash to indicate program status and potential error conditions, allowing prompt reset	<i>Minimize troubleshooting effort in case of operator error</i>
	Tools: Micrograin carbide mills, both TiN-coated for smooth cutting, resealable finish. Choose time-proven SB-8 Dual-helix with Kovar-clearing reliefs, or advanced ASH08 "Asynchronous Helix™" vibration-control design with thicker, more durable spiral flutes.	<i>Both tools ideal for Kovar and other gummy package/lid materials, don't gum or heat up. ASH08 works best on DL-4A and later machines at higher speeds.</i>
Package Size	Sides from .2" to 8.0", Height to .85" (added height requires minor fixturing modifications)	<i>Custom Models to 12"L, 1.9"+H</i>
Process Time	1 -2 minutes typical for 14-pin DIP,	<i>Fixtures can boost throughput</i>
Tool Change	...in under 5 Minutes, by loosening a collet much like one on an electric hand drill.	<i>Quick-change tools let you get like-new results – every time.</i>
Safety	Interlocks make table and cutter motors inoperable with cover open, and tools are isolated by fixtures and vacuum cowls	<i>Protect operators from injuries common to unguarded high-speed hand tools and mills.</i>
Dimensions	29"x23"x14" (Benchtop Size), 180 Pounds	<i>Compact enclosed convenience</i>
Services	115VAC, 1.5" outlet for remote 59db ULPA-filtered particle vacuum	<i>230V and CE-certified models available – please ask for details</i>

ORDER NUMBERS *Subject to change – call for detailed quote !*

D5F8	Generation-5 Hybrid Lid Removal System with Setup Tools & Standard Fixture
SB-8	TiN-coated Kovar-optimized dual-helix tool
ASH08	TiN-coated "Asynchronous Helix™" advanced spiral mill
DFLTDSO1	Replacement datum stop & leg, with minor customization if required.
D4LTDS39	Custom datum plate with pockets for holding package lid-up, typical
D5VAPS	Particle control system with 59db ULPA cleanroom vacuum, plumbing and wiring, and machined cawling for maximum process cleanliness