

WORKHOLDING

DYNOLOCK™

QUICK START GUIDE

ENGLISH

MATE
M PRECISION
TECHNOLOGIES

DYNOLOCK™ BASE

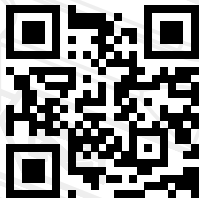
Quick Start Guide



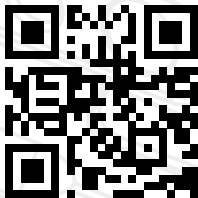
THANK YOU FOR YOUR PURCHASE

We know that proper and timely information is key to successfully doing your job. To support your success, Mate provides all the information you need — at your fingertips — when and wherever you need it.

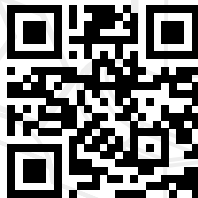
To get started, scan one of the QR codes below or scan the QuickSpecs™ 2D bar code on the vise itself. See *Using QuickSpecs™* at right.



**INSTRUCTIONS/
MAINTENANCE**



ORDER ONLINE



CATALOG

USING QUICKSPECS™

The Mate 52/96 zero point workholding system includes QuickSpecs™, a unique product identification system that provides real-time access to product information and potential integration into your business systems.



Simply use your smart phone and scan the 2D bar code on the side of the product. You will have access to all information about the product — including CAD files, full product instructions and more — all related to the specific serial number of the item.

Click the Link adjacent to the “Email Link” and use your phone to email a link to yourself. When you receive the email on your desktop computer, you will see a link to the on-line repository for the CAD models.

BASE OVERVIEW:

2D Bar Code
For quick access to QuickSpecs™

Socket Adapter
6mm internal hex

"L" Pull Bar
Installs on Socket Adapter side

Lifter
Lifts Vise from Base

Pull Stud Pocket
Designed to fit Mate Pull Studs

Poka-Yoke alignment feature
Compatible with M5 x 6mm cap screw

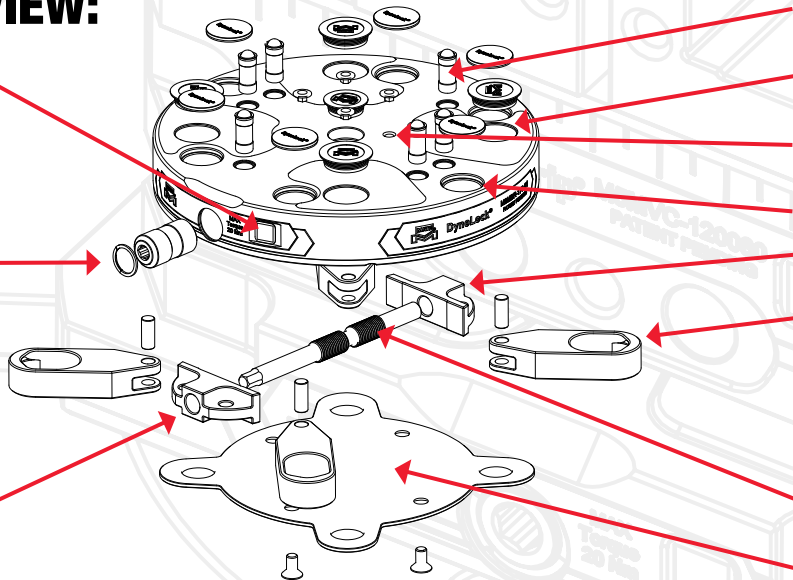
Table Mounting Bore

"R" Pull Bar

Yoke
Locks onto Pull Stud

Lead Screw

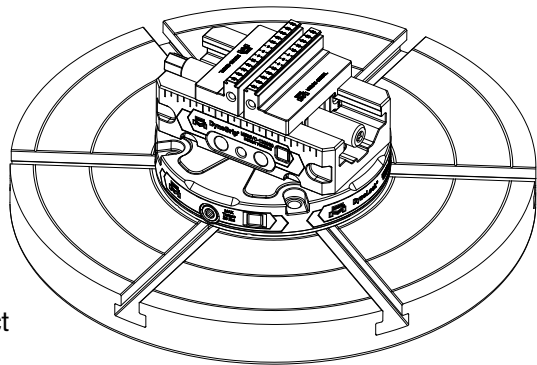
Bottom Cover



FIRST USE & BASIC OPERATION

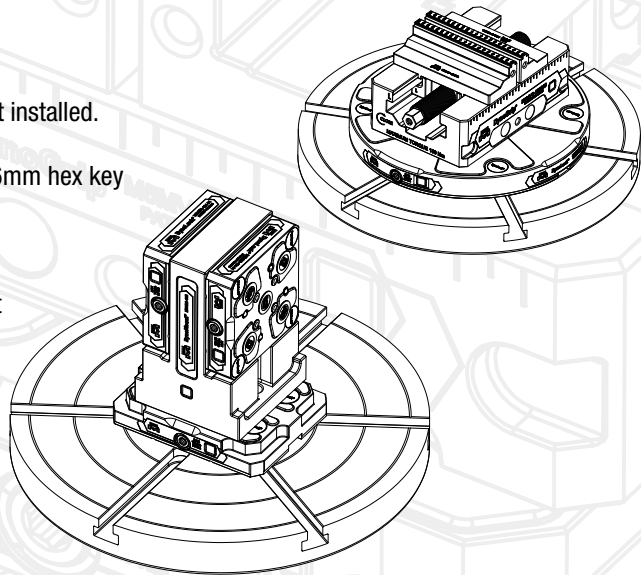
Your Mate DynoLock Base comes ready to use right out of the box and in the open position.

1. Clean machine table
 - Remove any metal bits, chips, or machining swarf
2. Begin with a clean base assembly
 - Remove any metal bits, chips or machining swarf
3. Attach base to machine table with appropriate fasteners
 - M10 socket head cap screws are typically used
 - M12 screws will fit in most bases — see specific base specifications
 - If keying locates base adequately, then tighten fasteners securely
 - If base needs a precise positioning:
 - Loosely tighten fasteners enough to allow movement of base
 - Indicate position with probing, move base, repeat until position is correct
 - Tighten fasteners securely and re-check position



BASIC OPERATION (CONT.)

4. Prepare base for vise installation
 - The base should always be in the fully open position when a vise is not installed.
 - **DO NOT** close base without a vise or top tool present
 - Verify that the base is fully open by turning the socket adapter with a 6mm hex key counter-clockwise until the hex key stops
 - **DO NOT** over rotate - damage may occur
5. Align vise pull studs with pull stud pockets on base and seat squarely
 - Pull studs should easily fit into the pull stud pockets. If not, ensure that the base is in the fully open position and there are no obstructions.
 - Lifters will hold vise approximately 2mm above base pads
 - **DO NOT** use a hammer or mallet to seat vise
6. Turn socket adapter clockwise with a 6mm hex key
 - Top tool will seat securely to base
 - **DO NOT** tighten beyond MAX Torque — 20 Nm
7. The assembly ready for use.



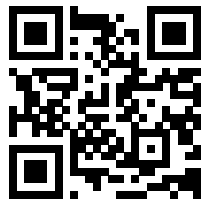
MAINTENANCE AND CLEANING

- Avoid unnecessary contact or immersion in water or water-based coolant

Note: Machine coolant has some inherent lubrication properties and is often used as a substitute for grease. If using water soluble coolant, maintain coolant concentration to the minimum recommendation from the manufacturer to inhibit corrosion and pitting.
- Blow off top of base with air when vise or work-piece is changed
- Install plugs and caps when base is not in use
- When the base is in use, keep the caps in place on the unused holes unless they interfere with the vise.
- If base is to be stored long-term, spray or wipe with a rust inhibitor such as Acekote or Zerust
 - If the base is exposed to large amounts of machining, grinding particles or clamping operation becomes difficult, then refer to the Dynolock assembly instructions.
 - When base is re-assembled:
 - Apply grease to any sliding or contact surfaces of the clamping mechanism
 - Use NLGI Grade 2 Li-based grease with MoS2 (MobilGrease XHP 322 Mine or similar)

ADDITIONAL INFORMATION

For assembly instructions and more, consult the DynoLock instructions by going to mate.com/wh or for fast access — scan the QR code at right to download.



**INSTRUCTIONS/
MAINTENANCE**



MATE PRECISION TECHNOLOGIES GLOBAL COVERAGE

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