

# TECHNICAL BULLETIN

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## ***EPIC EF*** NEW PRODUCT: EPIC EF EXTENDED FANUC

### ***CNC Add-On Module For Upgrading Your Legacy Hydromat Machines***

The ***EPIC EF EXTENDED FANUC*** connects up to 4 EPIC CNC Toolspindle Units on one Legacy Hydromat machine. Comes standard with a compact stand-alone control cabinet and a hand held FANUC iPendant, and connector cables.

This plug and play control system is added to your machine and your Legacy Hydromat's control stays in-tact and works as before. Use EPIC Toolspindles Units you may have in stock or purchase new units from Hydromat, Inc.

The original control and your new EPIC EF control work hand-in-hand giving you fast upgrade to multi-unit, multi-axis EPIC CNC Hydromat capabilities.



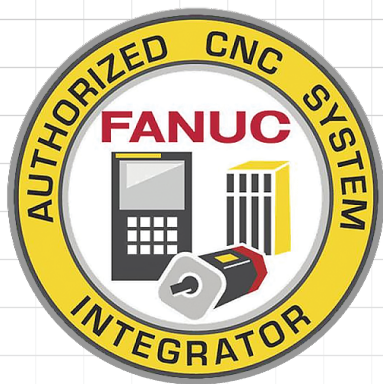
### ***Benefits of the EPIC EF Extended FANUC Technology***



- Ability to use CNC milling and lathe turning with generating heads.
- Ability to mill highly accurate forms with ***Hydromat Deep Machine Learning***.
- Optional thread milling and tapping with ***Thread-Advantage Technology***.
- Optional oscillation drilling chip breaking with ***Shred-Advantage Technology***.
- Standard Model connects up to 4 EPIC CNC Toolspindle Units on one Legacy Hydromat machine. Expanded Cabinet customized to customer applications available.
- FANUC G-code programming – the most widely-used control language in the world.
- No PC needed for connectivity resulting in Ultimate Reliability.

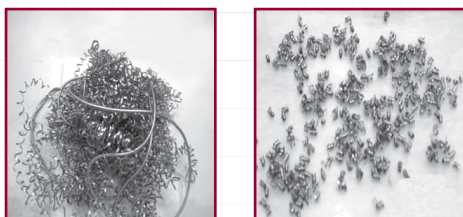
HYDROMAT INC. • ADVANCED MACHINING SOLUTIONS

**EPIC EF** CNC Add-On Module For Upgrading Your Legacy Hydromat Machines



**Shred-Advantage Technology**

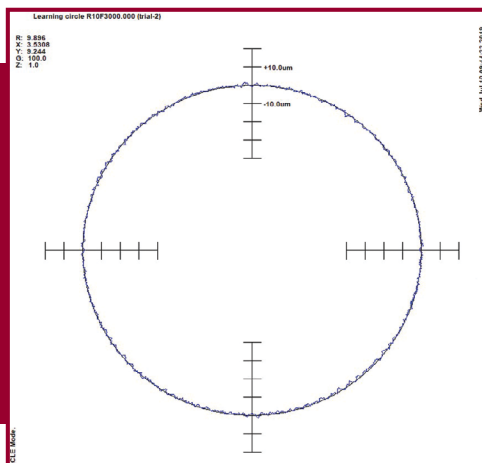
Optional Hydromat oscillation chip breaking technology. The feed axis oscillates with each revolution of the spindle to eliminate stringy chips.



**Thread-Advantage Technology**

Optional thread milling & tapping technologies:

- Thread mill up to 10x faster with precise and accurate position control.
- Lightning fast, perfectly synchronized tapping is possible.



**EF Cabinet Technology Specifications**

**FANUC 30iB Series CNC control**

- Ideal for multiple axes, multi-path, high speed & high precision machining requirements.

**FANUC R30iB iPendant**

- Provides user-friendly interface for both programmers and on-site operators. Dual display improves functionality and multitasking feature.

**Compatible CNC Tool Spindle Units**

**All Hydromat EPIC CNC Toolspindle Units are fully compatible with the EPIC EF Extended FANUC**

- EPIC CNC 26/80 Toolspindle Unit
- EPIC CNC 36/100 Toolspindle Unit
- EPIC CNC 46/120 Toolspindle Unit
- EPIC CNC 36/100 Recessing Unit Single Axis Control
- EPIC CNC 50/100 Two Axis Unit with Profiling Head
- EPIC CNC X-Y Flange: Two Axis Positioning Flange for 26/80 or 36/100 Toolspindle Units

**Hydromat Deep Machine Learning**

Hydromat's deep machine learning allows faster feed rates while holding exact profiles. HSM (High Speed Machining) techniques can be used from the latest CAM software, reducing cycle times and improving part quality.

*Left: With deep machine learning engaged.*