PRODUCT INTRODUCTION | 2026

One Chuck.
More Capability.

FODBITS® tapping and drilling self-tightening chucks are engineered to help shops reduce tool slippage, simplify tool changes, and expand the work they can perform on existing machines.

BUILT FOR REAL SHOP-FLOOR DEMANDS

Patented self-tightening technology for both tapping and drilling: M3-M24 threads and Ø1-Ø30 mm holes, depending on model.

FODBITS PRECISION TECHNOLOGY CO., LTD. | VANCOUVER, CANADA

www.fodbits.com

THE BIRTH OF FODBITS®

The Chuck Holemaking Tools Waited 123 Years For.

For 123 years, holemaking tools waited for a chuck that could truly understand their demands. FODBITS® was created to do more than hold a tool - it was created to work with it, respond to it, and help it achieve more.

A PERFECT PARTNERSHIP

Where Tool and Chuck Become One.

They Were Made for Each Other.

WHY FODBITS®

Designed Around the Problems Shops Still Face

A 12-year development program focused on practical performance - not incremental change.

12 years
DEVELOPMENT

3
PATENTS
International patents

Up to 247 N·m
CLAMPING TORQUE

TAPPING
M3-M24
DRILLING
Ø1-Ø30 mm

Four Persistent Pain Points

01 Tool slippage under load

02 Drilling only - no tapping

03 Short chuck service life

04 Dependence on keys or tools

The FODBITS® Approach

Secure grip. A self-tightening structure designed to resist slipping as load increases.
Drill + tap. One chuck supports a broader range of round-hole operations.
Tool-free handling. Clamp and release by hand - no chuck key or hook spanner.
Built for longevity. Designed to reduce replacement frequency and lifecycle cost.

BOTTOM LINE

FODBITS® combines drilling and tapping capability in a single self-tightening platform - helping shops spend less time managing the chuck and more time completing productive work.

ADVANTAGES 01-03

Grip More. Change Tools Faster. Cover More Work.

1 Engineered to Resist Slippage

Up to 247 N·m of clamping torque

The self-tightening design increases gripping action under load, helping reduce the need to stop and retighten the tool during operation.

2 Clamp and Release by Hand

No chuck key. No hook spanner.

Operators can install and remove tools by hand across model-dependent ranges of M3-M24 tapping and Ø1-Ø30 mm drilling.

3 A Wider Working Range

One chuck for tapping and drilling

FODBITS® chucks support both M3-M24 tapping and Ø1-Ø30 mm drilling, depending on model - reducing chuck changes and expanding the useful processing range of existing machines.

ADVANTAGES 04-06

Built for Long-Term Value and Bidirectional Work

4 Longer Service Life

Customer-reported durability gains

Customer feedback indicates service life of approximately 7-20x that of keyed chucks and 3-7x that of conventional self-tightening chucks. Results vary by application and operating conditions.

5 Clockwise + Counterclockwise

Consistent gripping in both directions

The chuck is designed to maintain clamping performance in forward and reverse rotation, supporting drilling, tapping, and other bidirectional operations.

6 Secure During Emergency Stops

Retention designed for sudden braking

The self-locking and retention structure is designed to help preserve gripping force during emergency stops or rapid deceleration.

ADVANTAGES 07-09

Make Every Tool Change and Every Cycle Work Harder

7 Faster Tool Changes

Up to 70% less replacement time

Hand clamping and release can significantly shorten drill-bit changes. Customer-reported results indicate time savings of up to 70%, depending on the process.

8 Accuracy You Can Build On

Strong grip supports stable machining

Runout performance is designed to exceed traditional keyed chucks and align with conventional self-tightening chucks, while strong gripping torque helps maintain tool stability.

9 A Better Operator Experience

Simple, confident, tool-free handling

Fewer interruptions, fewer loose accessories, and a broader working range help operators stay focused on accuracy and throughput instead of managing the chuck.

PUT FODBITS® TO WORK

Test the Chuck. Judge the Results.

FODBITS® chucks were created for real machines, real materials, and real production demands.

Request a Sample Evaluation

Contact us to discuss your machine, spindle connection, tool range, materials, and drilling or tapping requirements. We will help identify the appropriate FODBITS® configuration for evaluation.

LEARN MORE

www.fodbits.com

Product information and inquiries

COMPANY

Fodbits Precision Technology

Vancouver, Canada

FODBITS® - the dependable partner a drill bit needs, and the productive partner a workshop can trust.

Performance ranges and results depend on model selection, machine condition, application, material, and operating parameters.

Confirm final specifications with Fodbits Precision Technology Co., Ltd. before purchase or production use.