Door Opening Solutions for Ultimate Medical Parts Machining
Ask for More of Tungaloy’s Door Opening Solutions
The ultimate tools for machining medical parts

Tungaloy is producing its latest cutting tools based on technologically advanced materials and cutting-edge process techniques that have been cultivated with over 70 years of expertise. This blend enables Tungaloy’s products to deliver exceptional machining results with medical components.

1. Joint implants

2. Bone screws
3. Dental implants

4. Implant plates

5. Pacemaker components

6. Surgical instruments
1. Joint implants

Tungaloy introduces its new indexable “TungMeister” endmills for highly productive profiling.

Indexable endmill
Drastically reduces tool changeover times and delivers highly accurate repeatability. With hundreds of cutting heads, the TungMeister can be applied to any endmilling application.

Joint implant tooling

Stainless steel & Titanium alloys
2. Bone screws

Back clamping toolholders suitable for small lathes and other easy operating tools drastically reduce the set-up time.

Stainless steel & Titanium alloys

**J-T** type toolholders

Back clamping system offers easy insert changeovers and excellent repeatability.

**Bone screw tooling**

- External turning
- Face milling
- Drilling
- Parting off
- Boring
3. Dental implants

Newly introduced grooving tools have a highly rigid clamping system that leads to stable tool life and high accuracy when machining stainless steel and titanium alloys.

Stainless steel & Titanium alloys

**GIGAMINIDRILL**

**DSM type**

DSM type small diameter solid drills reduce cutting time and improve tool life when machining in the ø.004" ~ ø.118" diameter range.

**J-SERIES**

**JS type chipbreaker**

Provides stable turning performance in difficult-to-cut materials even with a fluctuating depth of cut.
The complete grooving & parting off solution

Sharp edges reduce the cutting forces, leading to stable tool life and high accuracy. The .055" width is available as the minimum size.

Grades

New PVD coated grade

AH725

PMS

Steel Stainless Superalloys

An all-round grade for most materials

(Ti, Al)N PVD “Super-Flash” coating with a well controlled crystal structure and improved adhesion strength.

Fine grain carbide substrate with high toughness.

New PVD coated grade

GH130

PMKS

Steel Stainless Cast Iron Superalloys

Suitable for interrupted or tough cutting

TiCNO PVD coating layer with high wear resistance.

Unique substrate with ultra high toughness and fracture strength.

Dental implant tooling

Tungmeister

Face milling

Tungcut

Parting off

Giga Mini Drill

Drilling

J-Series

External turning

J-Series

Back turning
4. Implant plates

Tungaloy’s tooling allows high productivity levels and consistently long tool life in stainless steel and titanium alloy drilling and endmilling.

EPH type
Provides highly productive and accurate machining, offering a viable replacement for solid carbide endmills.

Indexable endmill
Allows drastic reduction of tool changeover times and offers highly accurate repeatability. The TungMeister also has hundreds of cutting heads that can be applied to any endmilling application.
5. Pacemaker components

Tungaloy’s drilling range offers high reliability and productivity in small diameter machining.

**Reduced machining cost**

Suitable for small diameter boring

The wide range of items with high rigidity and excellent chip evacuation can be applied to a multitude of boring operations. Minimum boring diameter is ø.177”.

**STREAMJETBARMINI**

DSM type

The DSM small diameter solid drills reduce cutting times and improve tool life when machining in the ø.004 ~ ø.118” diameter range.
6. Surgical instruments

Tungaloy’s cutting tools provide excellent chip control and increase tool life when stainless steel and titanium alloy machining.

JS type chipbreaker
Offers improved chip control when machining difficult-to-cut materials.

Inserts with ultra high accuracy
Provides stable tool life and highly accurate machining. Sharp edge can create excellent surface finish.
Grades

Tungaloy now introduces the latest grades for long and stable tool life when machining stainless steel and titanium alloys that are commonly used in the medical instrument industry.

New PVD coated grade

**SH730**

Suitable for stainless steel and titanium alloy machining

(Ti, Al)N thin PVD coating offers both sharpness and high chipping resistance.

Fine grain carbide substrate with high toughness.

New PVD coated grade

**AH725**

An all-round grade for most materials

(Ti, Al)N PVD “Super-Flash” coating with a well controlled crystal structure and improved adhesion strength.

Surgical instrument tooling

JS type chipbreaker with 3-dimensional design provides stable chip control even when machining with a fluctuating depth of cut.

External turning

Steel

Stainless Superalloys

Superalloys

Stainless

Steel

Surgical instruments

ø.394"

ø.276" (ap = .059")

ø.079" (ap = .157")

Overall length: 5.512"
Tungaloy Corporation
11-1 Yoshima-Kogyodanchi, Iwaki, 970-1144 Japan
http://www.tungaloy.co.jp/