



Industrial Solution IR002-E

DAVA GROUP CNC
COMERCIALIZADORA

Medical



Tungaloy Corporation

Door Opening Solutions for Ultimate **Medical Parts** Machining

DAVA GROUP CNC
COMERCIALIZADORA



www.tungaloy.co.jp



DAVA GROUP CNC
COMERCIALIZADORA



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

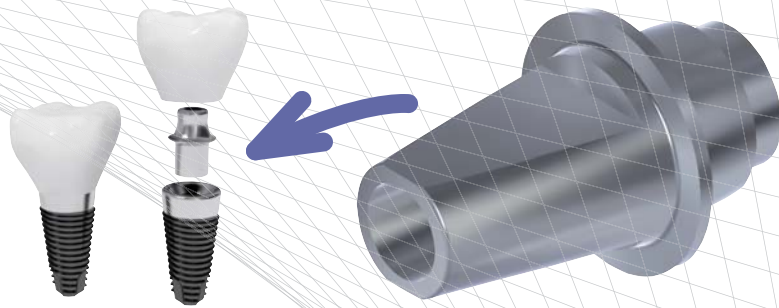


2. Bone screws



DAVA GROUP CNC
COMERCIALIZADORA

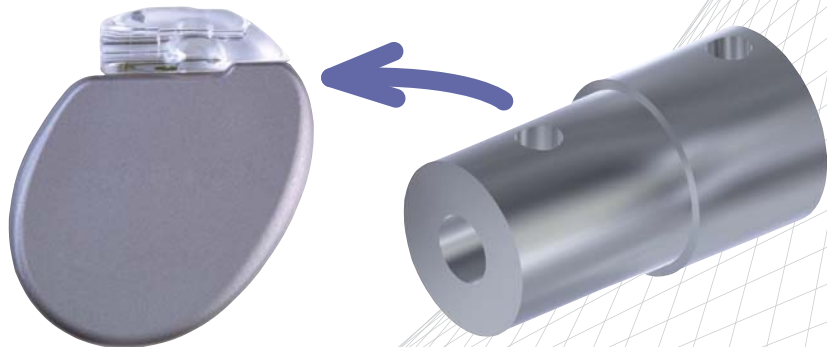
3. Dental implants



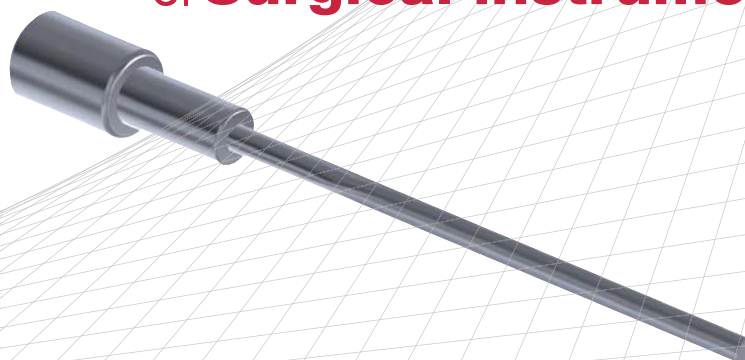
4. Implant plates



5. Pacemaker components



6. Surgical instruments



1. Joint implants

**Significantly reduce
tool changeover times**

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



Stainless steel & Titanium alloys



TUNGMEISTER

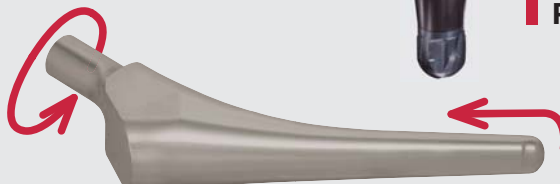
Indexable endmill

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

HYBRIDTACMILL
Endmilling



TUNGMEISTER
Profiling



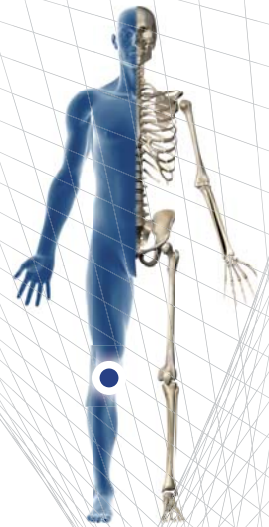
2. Bone screws

**Reduced
set-up times**

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



Stainless steel & Titanium alloys



J-SERIES

JT type toolholders

Back clamping system offers easy insert changeovers and excellent repeatability.



■ Bone screw tooling

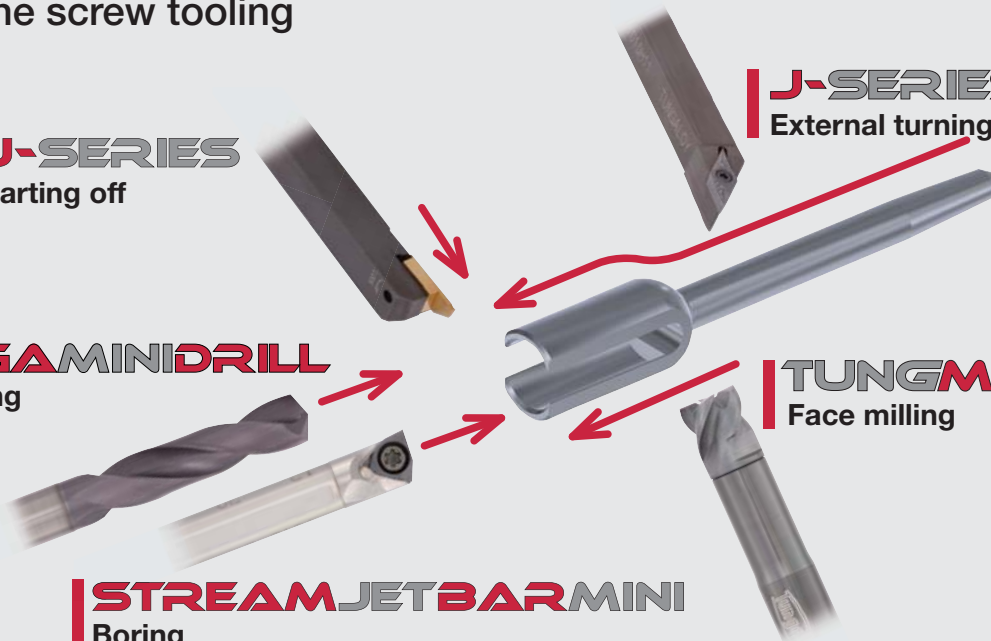
J-SERIES
Parting off

J-SERIES
External turning

GIGAMINIDRILL
Drilling

TUNGMEISTER
Face milling

STREAMJETBARMINI
Boring



3. Dental implants

**High
Productivity**

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.



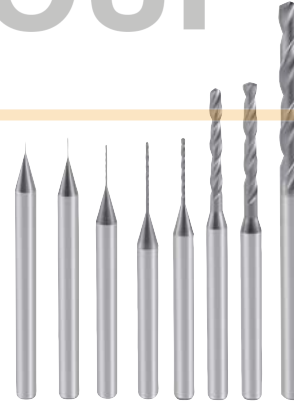
Stainless steel & Titanium alloys



GIGAMINIDRILL

DSM type

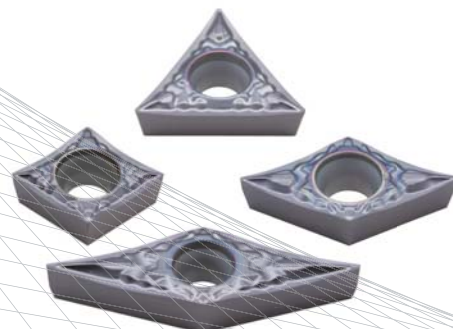
DSM type small diameter solid drills reduce cutting time and improve tool life when machining in the $\varnothing 0.1 \text{ mm} \sim \varnothing 3.0 \text{ mm}$ diameter range.



J-SERIES

JS type chipbreaker

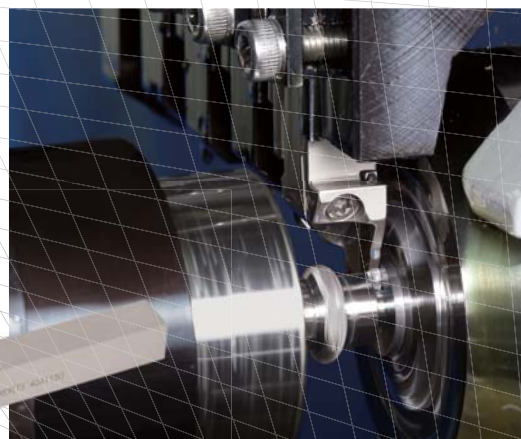
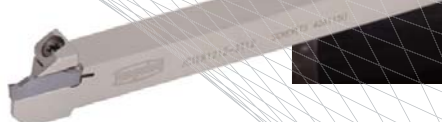
Provides stable turning performance in difficult-to cut materials even with a fluctuating depth of cut.



TUNG CUT

The complete grooving & parting off solution

Sharp edges reduce the cutting forces, leading to stable tool life and high accuracy. The 1.4 mm width is available as the minimum size.



Grades

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.

Fine grain carbide substrate with high toughness.

New PVD coated grade

GH130



Suitable for interrupted or tough cutting

TiCNO PVD coating layer with high wear resistance.

Unique substrate with ultra high toughness and fracture strength.

GROUP CNC

COMERCIALIZADORA

Dental implant tooling

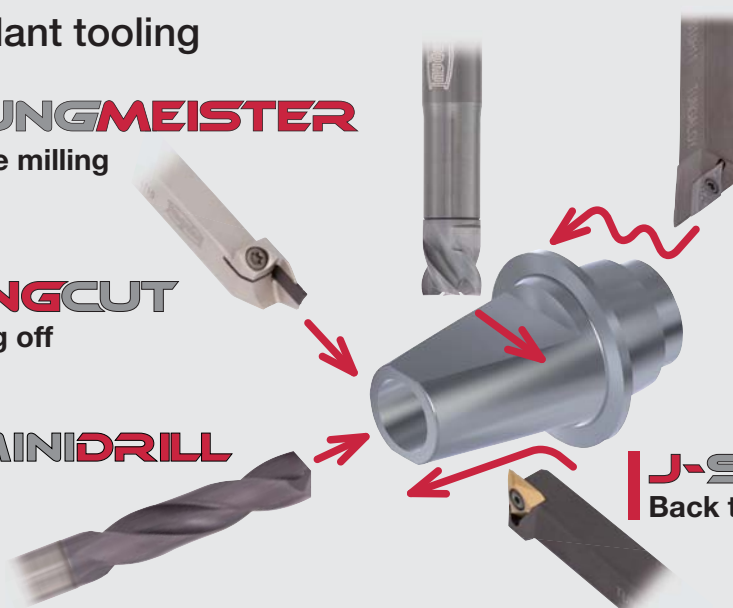
TUNGMEISTER
Face milling

TUNG CUT
Parting off

GIGAMINI DRILL
Drilling

J-SERIES
External turning

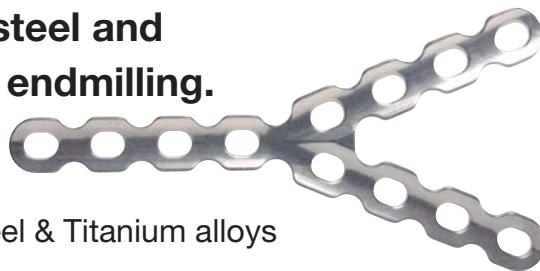
J-SERIES
Back turning



4. Implant plates

**High
Productivity**

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



Stainless steel & Titanium alloys



HYBRID TAC MILL

EPH type

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



TUNGMEISTER

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.



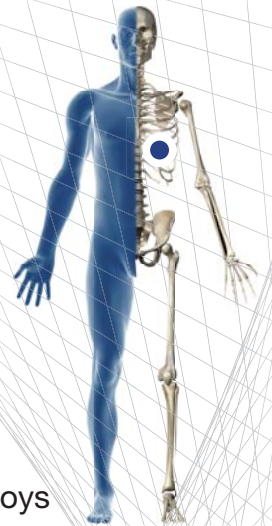
5. Pacemaker components

**Reduced
machining cost**

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



Stainless steel & Titanium alloys



STREAMJET BAR MINICNC

Suitable for small diameter boring

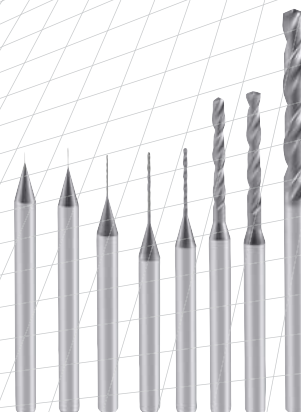
The wide range of items with high rigidity and excellent chip evacuation can be applied to a multitude of boring operations. Minimum boring diameter is $\varnothing 4.5$ mm.



GIGAMINIDRILL

DSM type

The DSM small diameter solid drills reduce cutting times and improve tool life when machining in the $\varnothing 0.1$ mm ~ $\varnothing 3.0$ mm diameter range.



6. Surgical instruments

Improved chip control

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



J-SERIES

JS

COMERCIALIZADORA

JS type chipbreaker

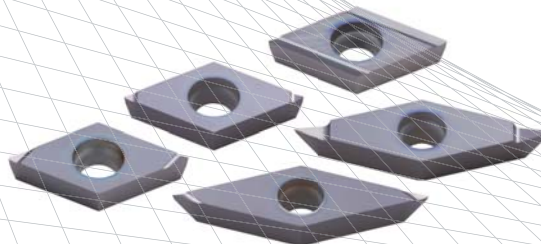
Offers improved chip control when machining difficult-to-cut materials.



JRP/JPP/JSP

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

New PVD coated grade

AH725



An all-round grade for most materials

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

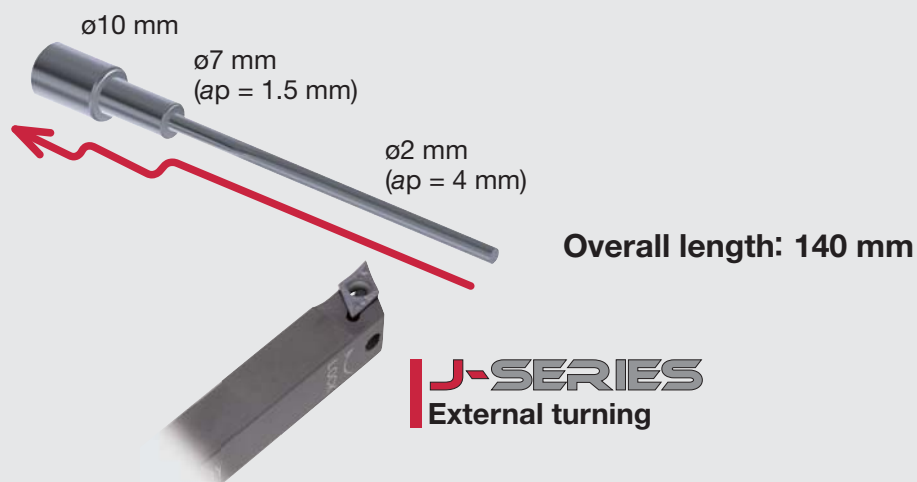
Fine grain carbide substrate with high toughness.

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

COMERCIALIZADORA

Surgical instrument tooling

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



Tungaloy Germany GmbH

An der Alten Ziegelei 1
D-40789 Monheim, Germany
Phone: +49-2173-90420-0 Fax: +49-2173-90420-19
www.tungaloy.de

Tungaloy France S.A.S.

ZA Courtaboeuf - Le Rio, 1 rue de la Terre de Feu
F-91952 Courtaboeuf Cedex, France
Phone: +33-1-6486-4300 Fax: +33-1-6907-7817
www.tungaloy.fr

Tungaloy Italia S.r.l.

Via E. Andolfato 10
I-20126 Milano, Italy
Phone: +39-02-252012-1 Fax: +39-02-252012-65
www.tungaloy.it

Tungaloy Ibérica S.L.

C/La Pau, nº46
E-08243 Manresa (BCN), SPAIN
Phone: +34 93 1131360 Fax: +34 93 1131361
www.tungaloy.es

Tungaloy Scandinavia AB

S:t Lars Väg 42A
SE-22270 Lund, Sweden
Phone: +46-462119200 Fax: +46-462119207
www.tungaloy.co.jp/se

Tungaloy UK Ltd

Hilton Hall Business Centre, Essington
Staffordshire, WV11 2BQ, UK
Phone: +44 121 309 0163 Fax: +44 121 270 9694
www.tungaloy.co.jp/uk salesinfo@tungaloyuk.co.uk

Tungaloy Czech s.r.o

Turanka 115
CZ-627 00 Brno, Czech Republic
Phone: +420-532 123 391 Fax: +420-532 123 392
www.tungaloy.cz

Tungaloy Rus, LLC

36-G Kostukova str.
308012 Belgorod, Russia
Phone: +7 4722 58 57 57 Fax: +7 4722 58 57 83
www.tungaloy.co.jp/ru

Tungaloy Polska Sp. z o.o.

ul. Genewska 24
PL-03-963 Warszawa, Poland
Phone: +48-22-617-0890 Fax: +48-22-617-0890
www.tungaloy.co.jp/pl

Tungaloy Cutting Tool (Thailand) Co.,Ltd.

11th Floor, Sorachai Bldg. 23/7, Soi Sukhumvit 63
Klongtonnue, Wattana, Bangkok 10110, Thailand
Phone: +66-2-714-3130 Fax: +66-2-714-3134
www.tungaloy.co.th

Tungaloy Singapore (Pte.), Ltd.

50 Kallang Avenue #06-03 Noel Corporate Building
Singapore 339505
Phone: +65-6391-1833 Fax: +65-6299-4557
www.tungaloy.co.jp/tspl

Tungaloy India Pvt. Ltd.

Unit#13, B wing, 8th Floor, Kamala Mills Compound
Trade World, Lower Parel (West), Mumbai - 4000 13, India
Phone: +91-22-6124-8803 Fax: +91-22-6124-8899
www.tungaloy.co.jp/in

Tungaloy Malaysia Sdn Bhd

50 K-2, Kelana Mall, Jalan SS6/14, Kelana Jaya, 47301
Petaling Jaya, Selangor Darul Ehsan, Malaysia
Phone: +603-7805-3222 Fax: +603-7804-8563
www.tungaloy.co.jp/my

DAVA GROUP CNC
COMERCIALIZADORA

Tungaloy Corporation (Japan)
Head office

11-1 Yoshima-Kogyodanchi
Iwaki, 970-1144 Japan
Phone: +81-246-36-8501 Fax: +81-246-36-8542
www.tungaloy.co.jp

Iwaki plant (Japan)

Products: Cutting tools

Nagoya plant (Japan)

Products: Cutting tools

Kyusyu plant (Japan)

Products: PCBN and PCD tools

Nirasaki plant (Japan)

Products: Cutting tools
Friction Material (TUNGFRIC)
Wear resistant tools
Civil Engineering tools

Yamato plant (Japan)

Products: Cutting tools

Tungaloy Precision Co.,Ltd. (Japan)

Products: Cutting tools

Tungaloy America, Inc.

3726 N Ventura Drive, Arlington Heights, IL 60004, U.S.A.
Phone: +1-888-554-8394 Fax: +1-888-554-8392
www.tungaloyamerica.com

Tungaloy Canada

432 Elgin St. Unit 3, Brantford, Ontario N3S 7P7, Canada
Phone: +1-519-758-5779 Fax: +1-519-758-5791
www.tungaloyamerica.com



DAVA GROUP CNC
COMERCIALIZADORA

Tungaloy Cutting Tool (Shanghai) Co.,Ltd.

Rm No 401 No.88 Zhabei, Jiangchang No.3 Rd
Shanghai 200436, China
Phone: +86-21-3632-1880 Fax: +86-21-3621-1918
www.tungaloy.co.jp/tcts

Tungaloy Korea Co., Ltd

#1312, Byucksan Digital Valley 5-cha
60-73 Gasan-dong, Geumcheon-gu
153-788 Seoul, Korea
Phone: +82-2-6393-8930 Fax: +82-2-6393-8952
www.tungaloy.co.jp/kr

Tungaloy Australia Pty Ltd

Unit 308/33 Lexington Drive
Bella Vista NSW 2153, Australia
Phone: +61-2-9672-6844 Fax: +61-2-9672-6866
www.tungaloy.co.jp/au

Tungaloy de Mexico S.A.

C Los Arellano 113, Parque Industrial Siglo XXI
Aguascalientes, AGS, Mexico 20290
Phone: +52-449-929-5410 Fax: +52-449-929-5411
www.tungaloyamerica.com

**Tungaloy do Brasil Comércio de
Ferramentas de Corte Ltda.**

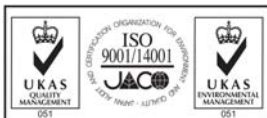
Rua dos Sabias N.104
13280-000 Vinhedo, São Paulo, Brazil
Phone: +55-19-38262757 Fax: +55-19-38262757
www.tungaloy.co.jp/br



Tungaloy Corporation

11-1 Yoshima-Kogyodanchi, Iwaki, 970-1144 Japan
<http://www.tungaloy.co.jp/>

DAVA GROUP CNC
COMERCIALIZADORA



ISO 9001 certified
QC00J0056
Tungaloy Corporation

18/10/1996

ISO 14001 certified
EC97J1123
Tungaloy Group
Japan site and Asian
production site
26/11/1997

Sep. 2011 (TJ)