



Industrial Solution IR002-US

# Medical



**Tungaloy Corporation**

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



[www.tungaloy.co.jp](http://www.tungaloy.co.jp)



Ask for More of Tungaloy's  
Door Opening Solutions

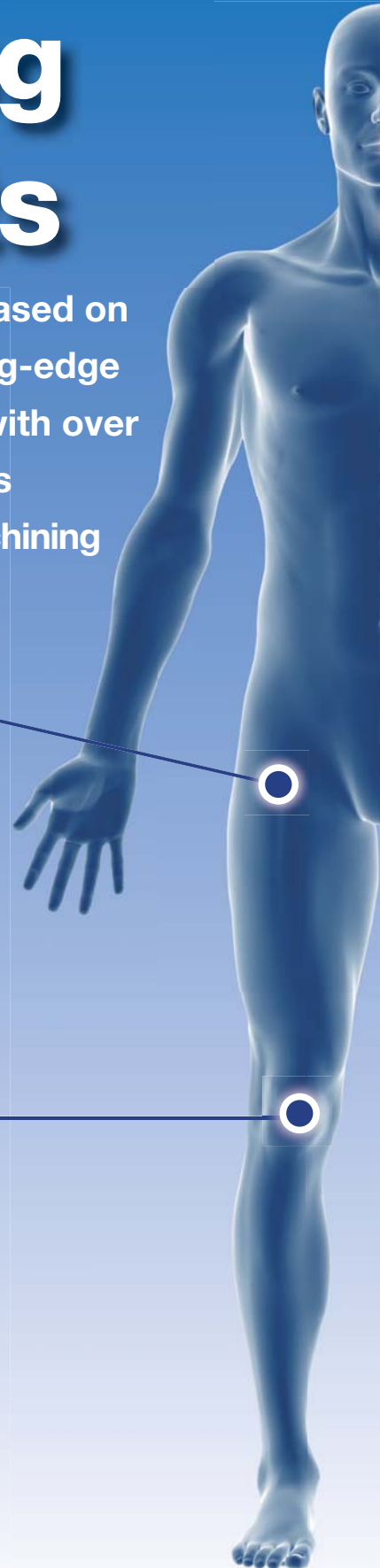
# The ultimate tools for machining medical parts

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

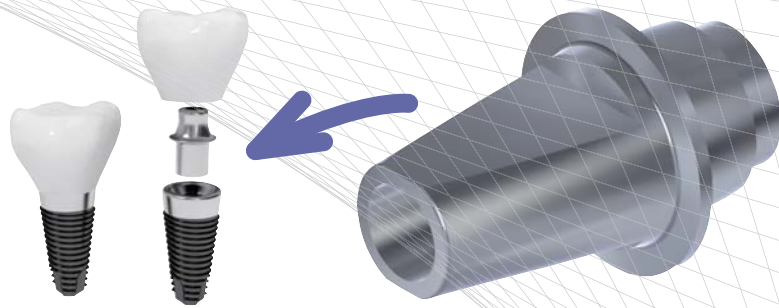


## 2. Bone screws





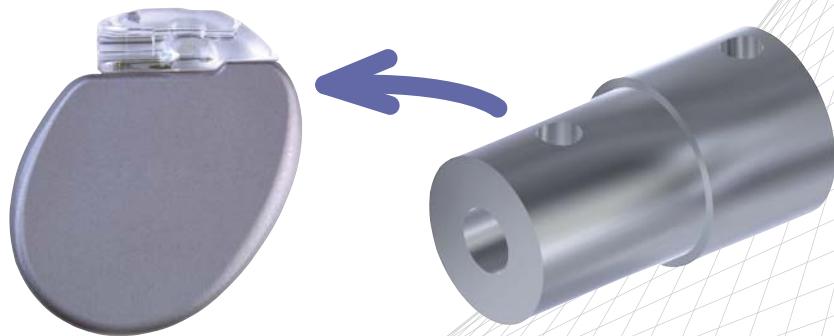
### 3. Dental implants



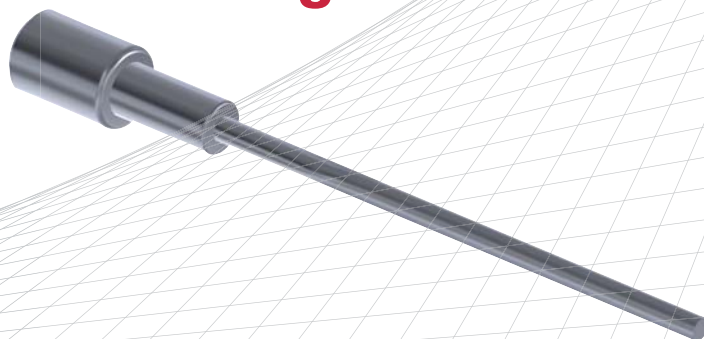
### 4. Implant plates



### 5. Pacemaker components



### 6. Surgical instruments



# 1. Joint implants

**Significantly reduce  
tool changeover times**

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



Stainless steel & Titanium alloys



## TUNGMEISTER

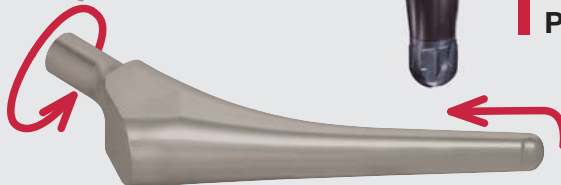
### Indexable endmill

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



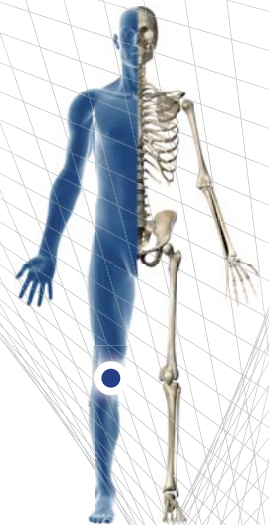
# 2. Bone screws

**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

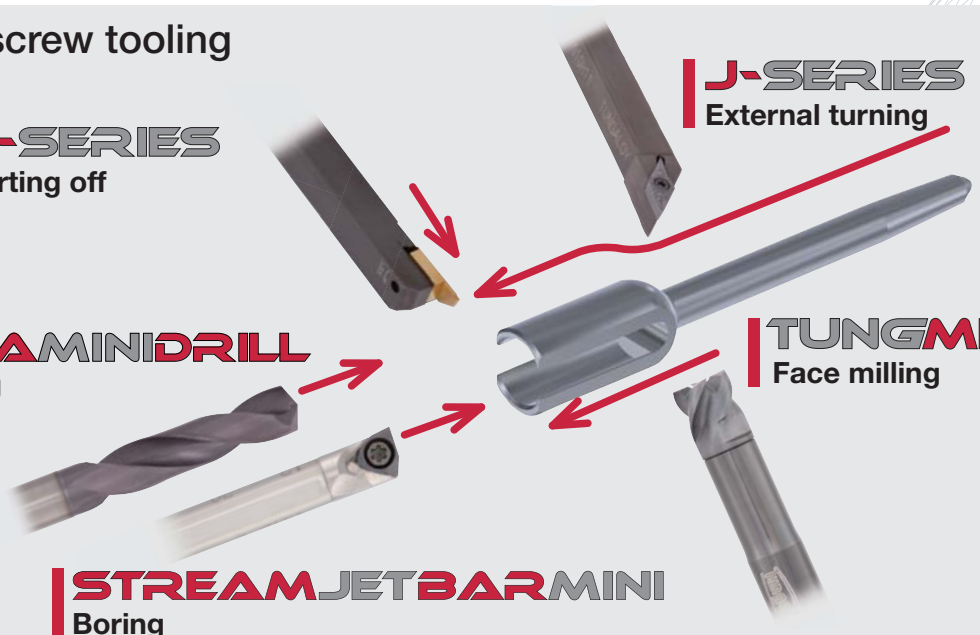
**J-SERIES**  
Parting off

**GIGAMINIDRILL**  
Drilling

**STREAMJETBARMINI**  
Boring

**J-SERIES**  
External turning

**TUNGMEISTER**  
Face milling





# 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  $\varnothing.004'' \sim \varnothing.118''$  diameter range.



## J-SERIES

### JS type chipbreaker

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

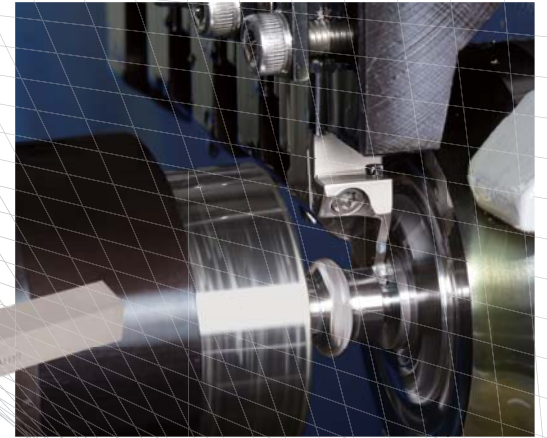




# TUNG CUT

## The complete grooving & parting off solution

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



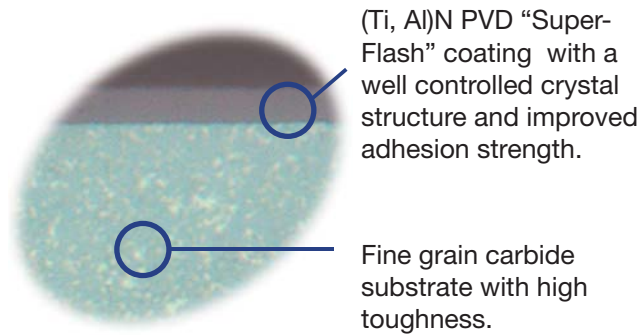
## Grades

New PVD coated grade

# AH725



An all-round grade for most materials

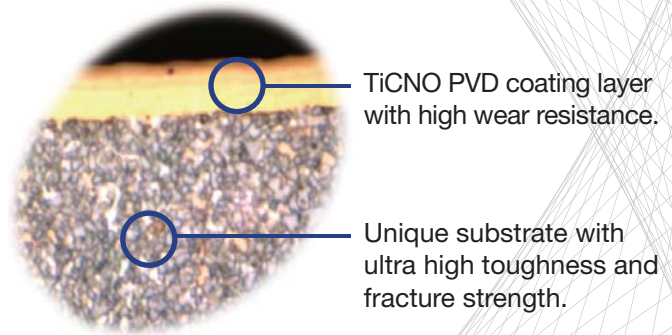


New PVD coated grade

# GH130



Suitable for interrupted or tough cutting



## Dental implant tooling

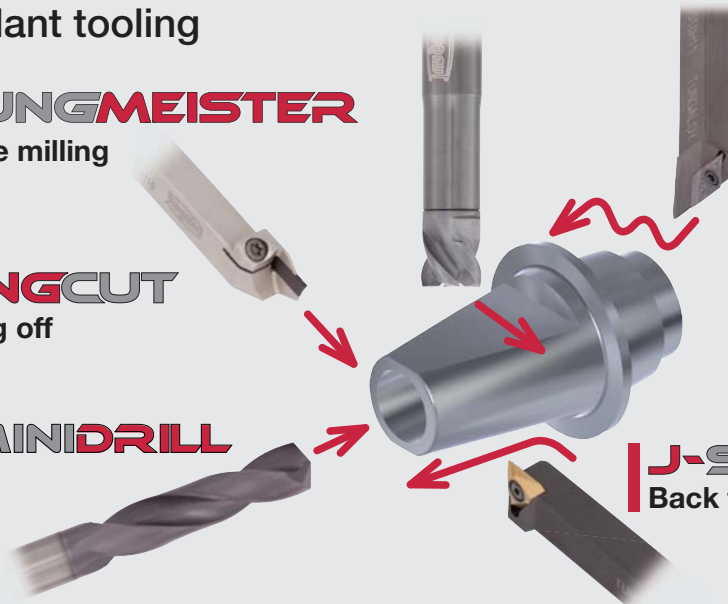
**TUNGMEISTER**  
Face milling

**TUNG CUT**  
Parting off

**GIGAMINI DRILL**  
Drilling

**J-SERIES**  
External turning

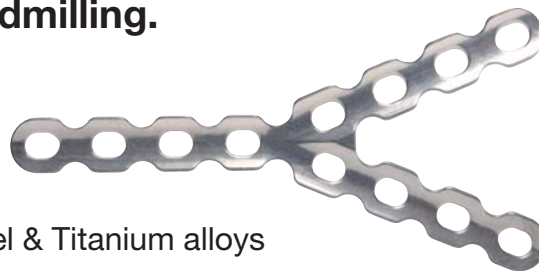
**J-SERIES**  
Back turning



# 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

## HYBRIDTACMILL

### 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.





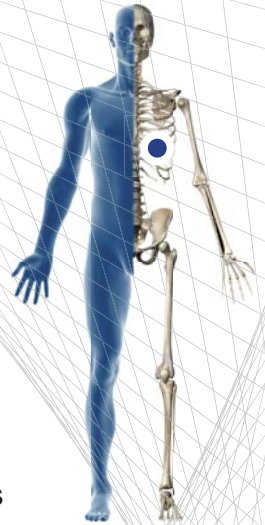
# 5. Pacemaker components

**Reduced  
machining cost**

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



Stainless steel & Titanium alloys



## STREAMJETBARMINI

**Suitable for small diameter boring**

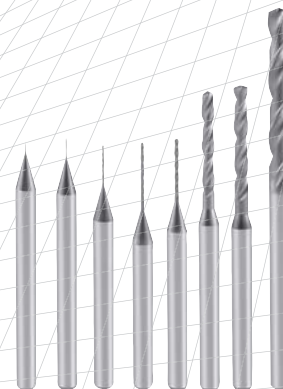
The wide range of items with high rigidity and excellent chip evacuation can be applied to a multitude of boring operations. Minimum boring diameter is  $\varnothing.177$ ".



## GIGAMINIDRILL

**DSM type**

The DSM small diameter solid drills reduce cutting times and improve tool life when machining in the  $\varnothing.004 \sim \varnothing.118$ " diameter range.



# 6. Surgical instruments

## Improved chip control

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

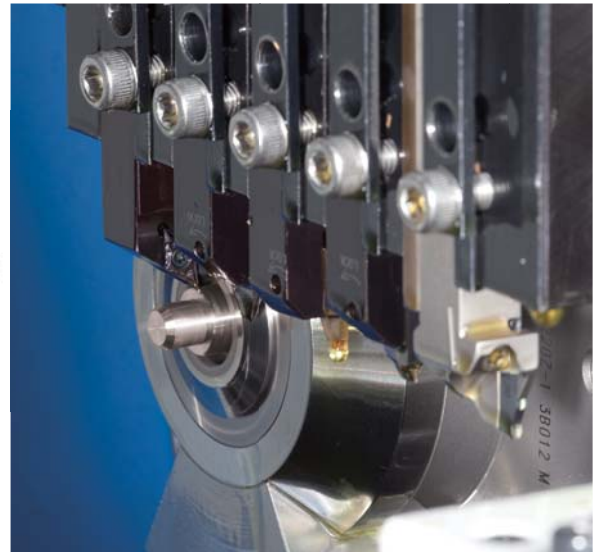


## J-SERIES

### JS

#### JS type chipbreaker

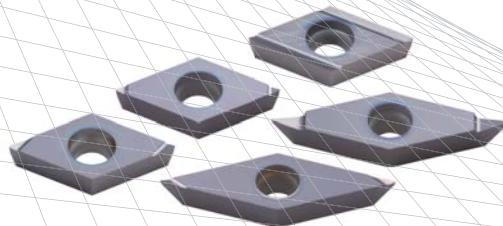
Offers improved chip control when machining difficult-to-cut materials.



### JRP/JPP/JSP

#### Inserts with ultra high accuracy

Provides stable tool life and highly accurate machining. Sharp edge can create excellent surface finish.





# Grades

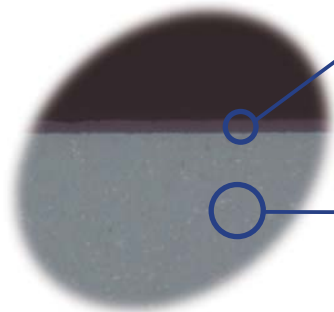
Tungaloy now introduces the latest grades for long and stable tool life when machining stainless steel and titanium alloys that are commonly used in the medical instrument industry.

New PVD coated grade

## SH730



Suitable for stainless steel and titanium alloy machining



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

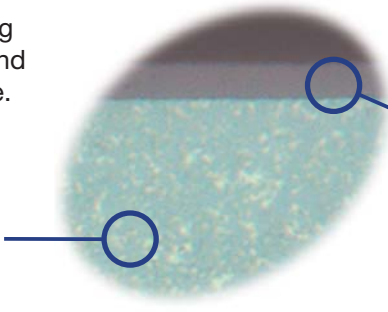
Fine grain carbide substrate with high toughness.

New PVD coated grade

## AH725



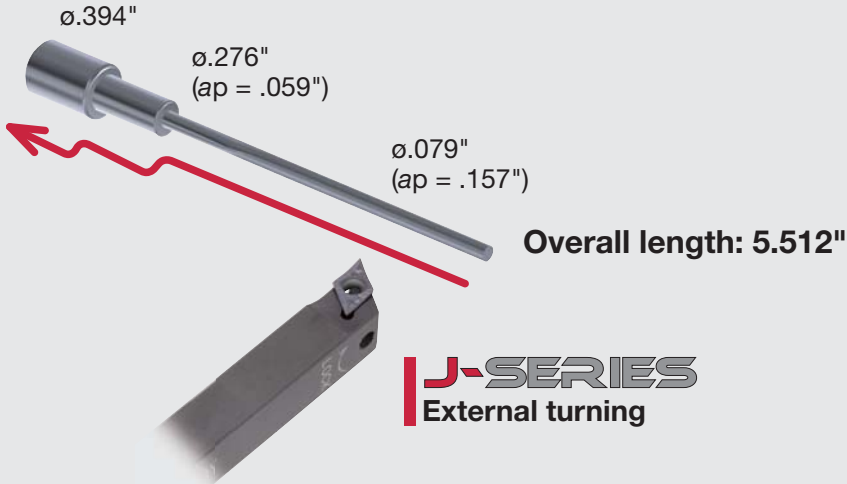
An all-round grade for most materials



(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.





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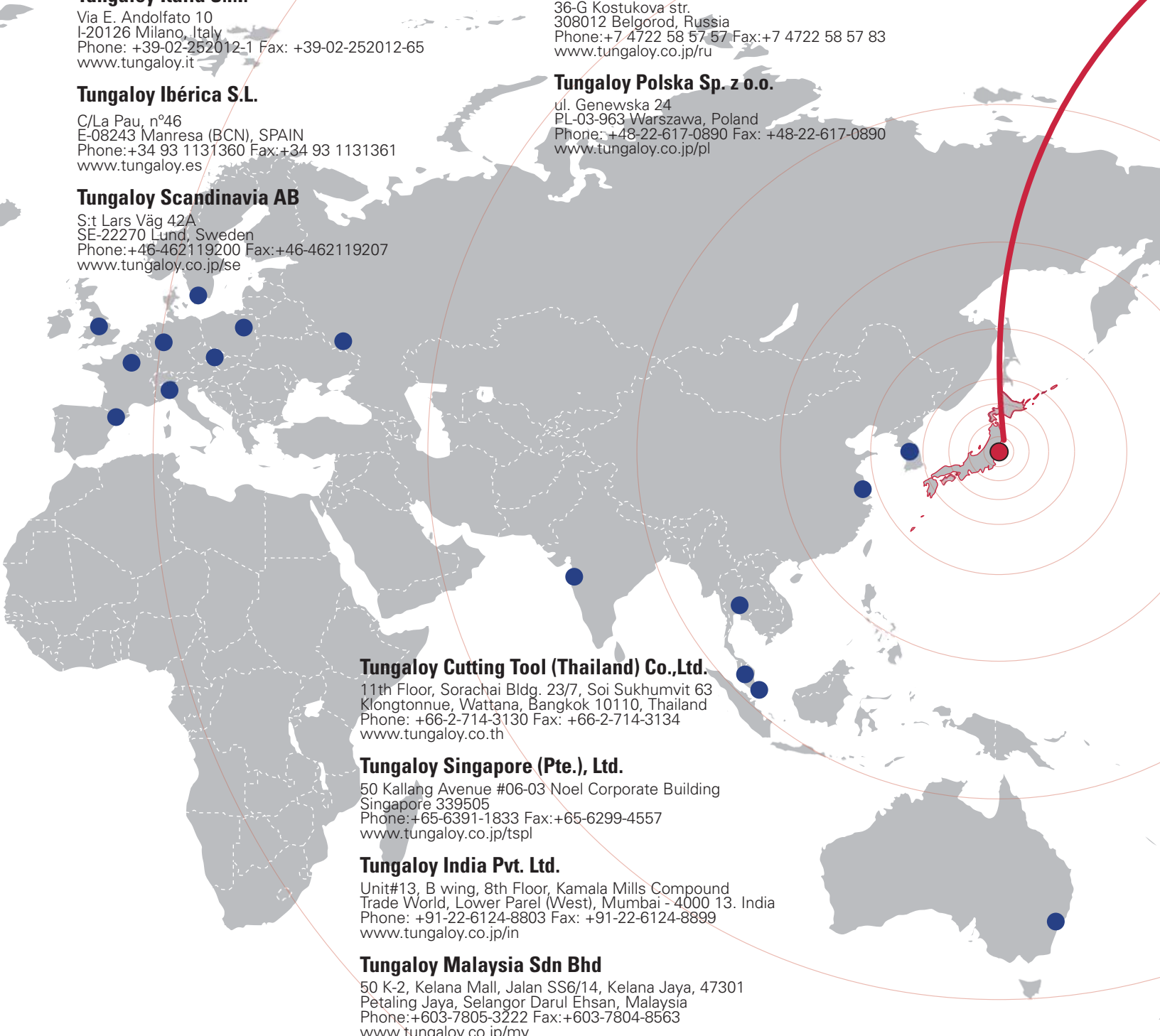
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**Iwaki plant (Japan)**

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 (TUNGFRICTION)  
Wear resistant tools  
Civil Engineering tools

**Yamato plant (Japan)**

Products: Cutting tools

**Tungaloy Precision Co.,Ltd. (Japan)**

Products: Cutting tools

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Tungaloy Group  
Japan site and Asian  
production site

26/11/1997