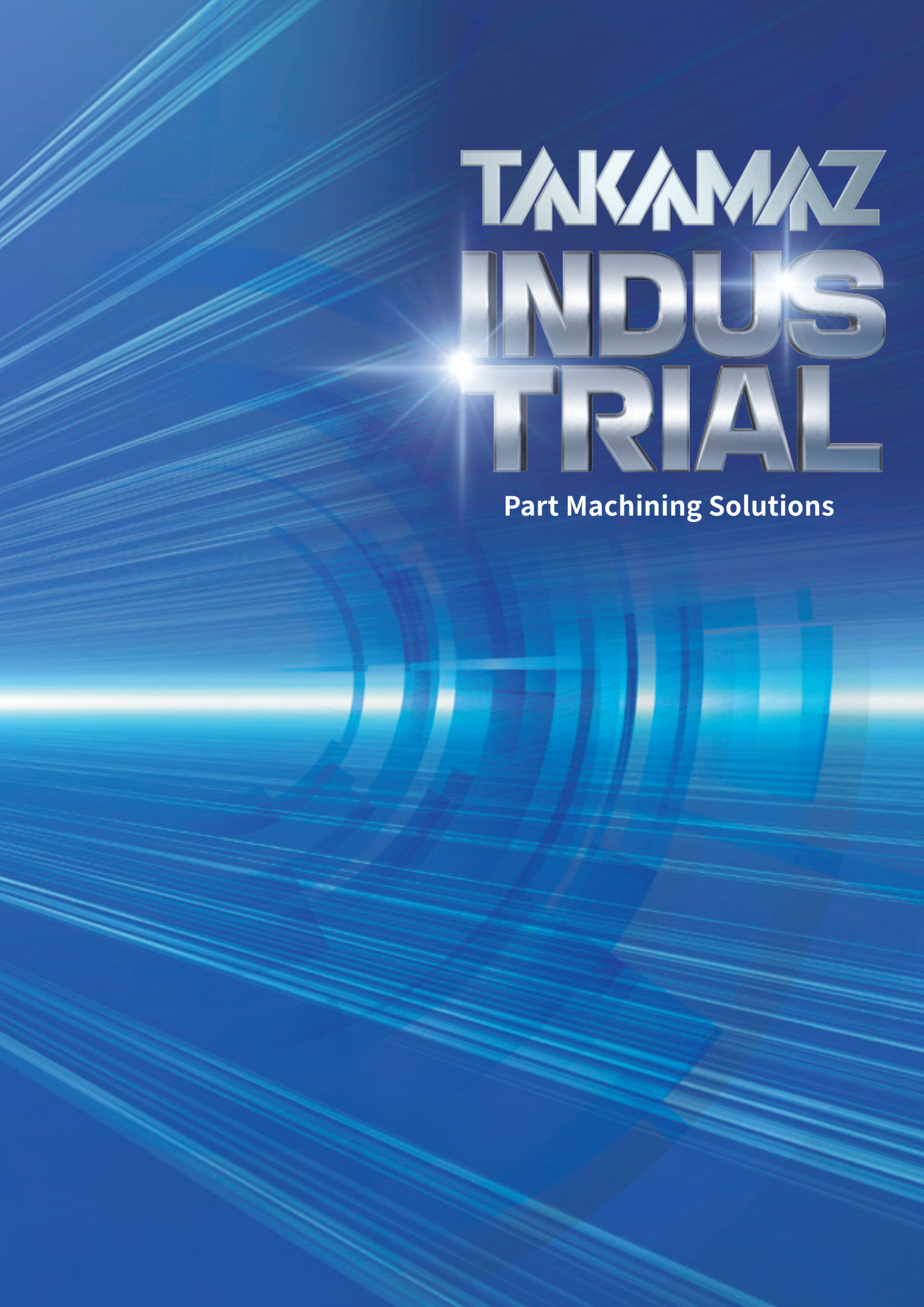
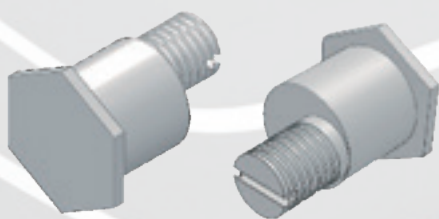
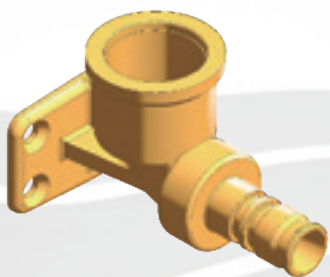


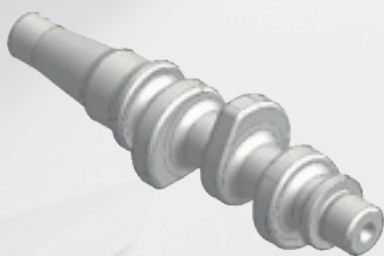
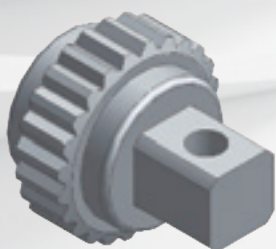
The background is a deep blue with numerous light blue, curved, and straight lines radiating from the center, creating a sense of motion and speed. A large, faint, circular gear-like shape is visible in the background, centered behind the text.

TAKAMAZ INDUS TRIAL

Part Machining Solutions



TAKAMAZ
INDUSTRIAL



CONTENTS

Part Machining Solutions

- 2 Models for Turning Work of Piping and Joint Parts
- 6 Models for Turning Work of Construction Materials and Parts
- 10 Examples of Completed Hand and Power Tool Parts
- 11 Models for Machining Parts for Hand and Power Tools
- 16 Models for Turning Work of Parts for Construction and Agricultural Machinery

Made by TAKAMAZ:

Piping and joint parts



Faucet parts
Internal temperature control
parts for bathroom use



Gas appliance parts



Piping parts for fire
extinguishers

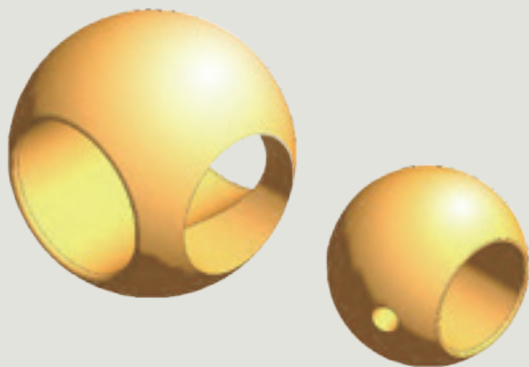


Parts for water meters



Snow-melting nozzle parts

Models for Turning Work of Piping and Joint Parts



Ball valves
【Material: Brass】



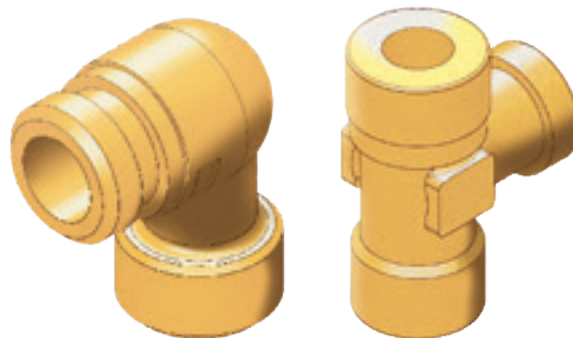
【Model with record of use】

TOP-TURN II



【Chuck】

TAKAMAZ TIC-DD

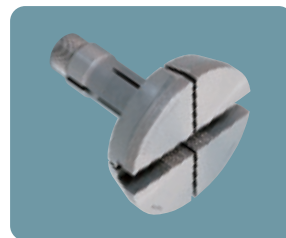


Shower elbow
【Material: Brass】



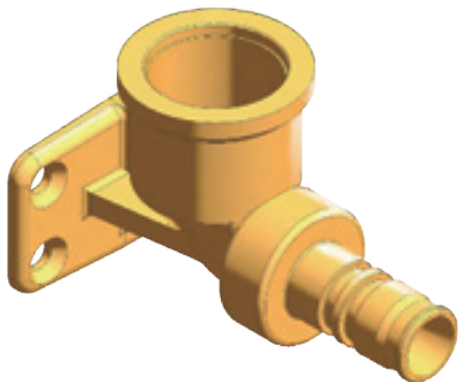
【Model with record of use】

XTS-6



【Chuck】

TAKAMAZ TSC-D26-0120



Elbow with a mount
【Material: Brass】



【Model with record of use】

XL-200



【Chuck】

JTEKT

「Indexing Chucks」: HSR-225



Valve case
【Material: PPS resin】



【Model with record of use】

XTS-6・XY-120PLUS



【Chuck】

TAKAMAZ TSC-D26-ST

Models for Turning Work of Piping and Joint Parts



Z-type meter unit

【Material: Spheroidal graphite cast iron】



【Model with record of use】
XWT-8



【Chuck】
TAKAMAZ
TSC-D26-O60 (Hi-grip)



Welded joints

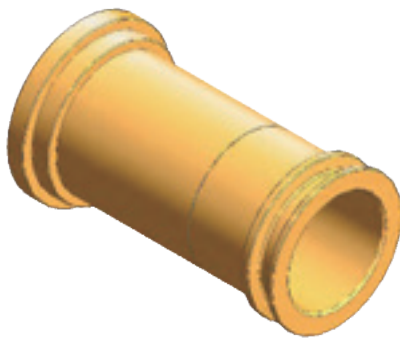
【Material: Carbon steel】



【Model with record of use】
XT-8



【Chuck】
TAKAMAZ TIC1-N5



Sockets

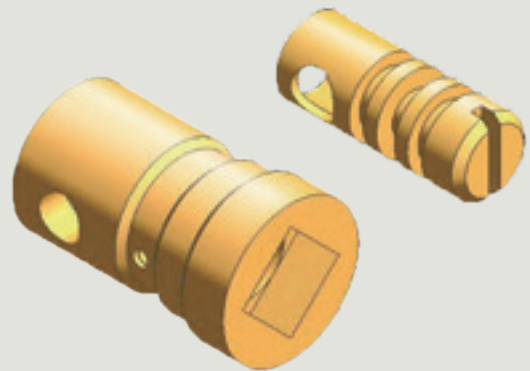
【Material: Bronze casting】



【Model with record of use】
XWT-8



【Chuck】
(Left) OP-1 : KITAGAWA N-06 (3-jaw)
(Right) OP-2 : TAKAMAZ TIC1-N3

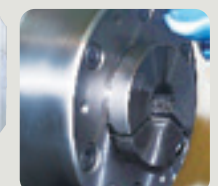


Valve case

【Material: Brass】

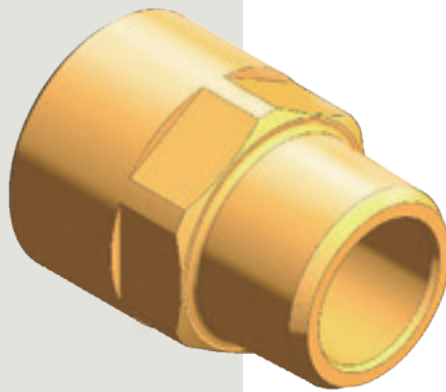


【Model with record of use】
XT-8 · TOP-TURN II



【Chuck】
TAKAMAZ
TSC-D26-O60 (Hi-grip)

Models for Turning Work of Piping and Joint Parts



Threaded sockets

【Material: Brass】



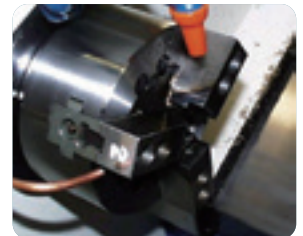
OP-1: **XWT-8**



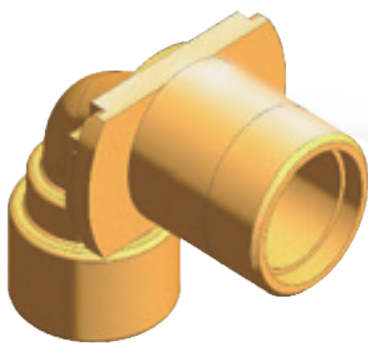
OP-2: **XT-6**



TAKAMAZ TPC3-CS55



KITAGAWA N-06



A4 box joints

【Material: Bronze casting】



【Model with record of use】

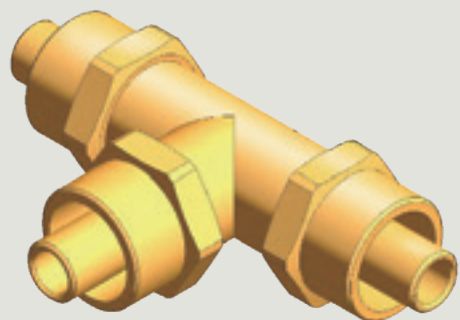
XL-200



【Chuck】

JTEKT

「Indexing Chucks」: HSR-225



XPE joints

【Material: Brass】



【Model with record of use】

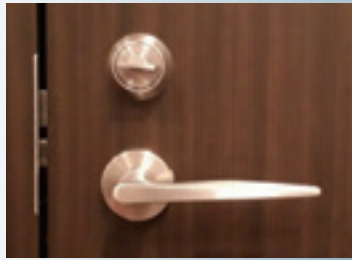
XT-8M



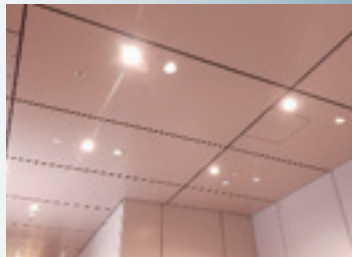
【Chuck】

TAKAMAZ TSC-D26-O120

Made by TAKAMAZ:
Construction
Materials
and Parts



Parts for door knobs
and door closers



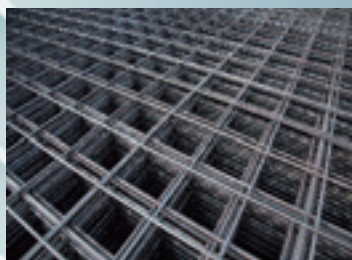
Lighting fixture parts



Compressor parts



Elevator door parts



Rebar parts

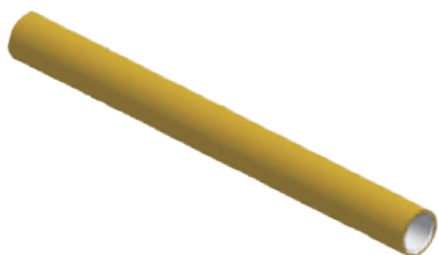


Parts for bolts for tunnels



Fiber optic cable relay
box parts

Models for Turning Work of Construction Materials and Parts



Handles

【Material: Vinyl chloride + aluminum】



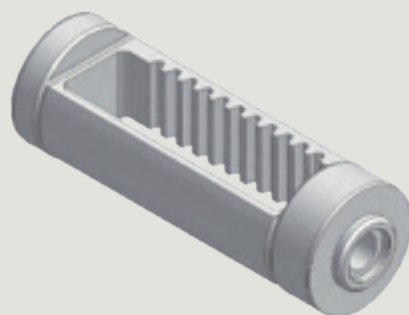
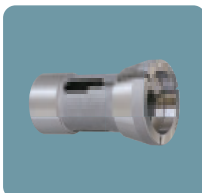
【Model with record of use】

XT-6M



【Chuck】

(Left) TAKAMAZ TSC-D26
(Right) TAKAMAZ TSC-D43



Pistons

【Material: Carbon steel】

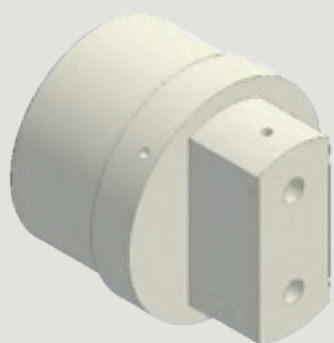


【Model with record of use】
OP-1 : XT-8 OP-2, OP-3 : XD-10i



【Chuck】

(Left) TAKAMAZ TSC-D26
(Right) TAKAMAZ TSC-D43



Base insulators

【Material: Ceramic】



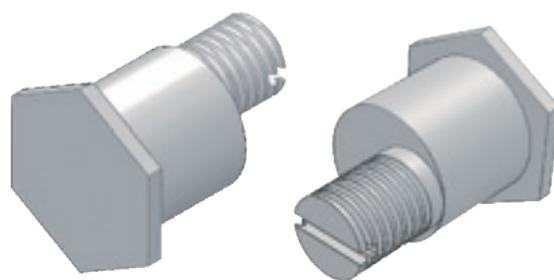
【Model with record of use】

XT-6M



【Chuck】

TAKAMAZ TPC1-D26-C120



Special spiral bolts

【Material: Stainless steel】



【Model with record of use】

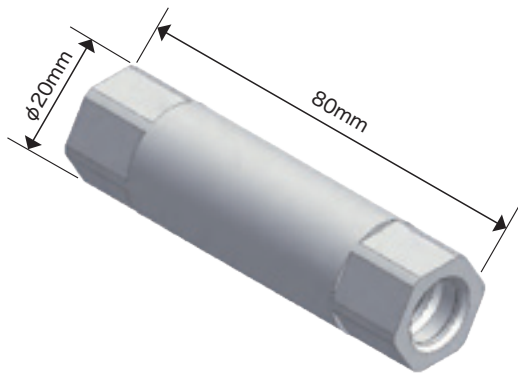
XY-120PLUS



【Chuck】

TAKAMAZ
TSC-D26 Eccentric unit

Models for Turning Work of Construction Materials and Parts

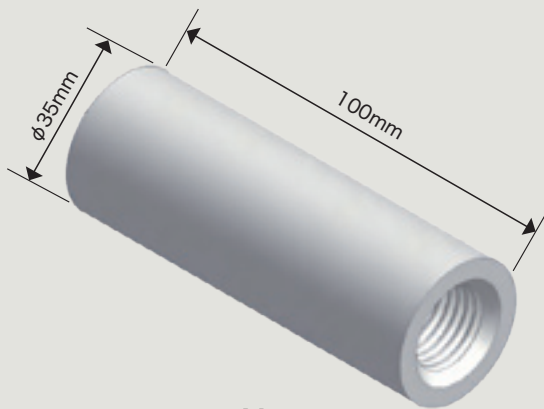


Couplers with bottom
【Material: Carbon steel】

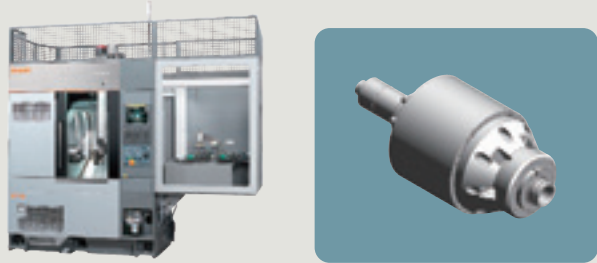


【Model with record of use】
XTS-6 • XT-8

【Chuck】
TAKAMAZ
TPC2-D26

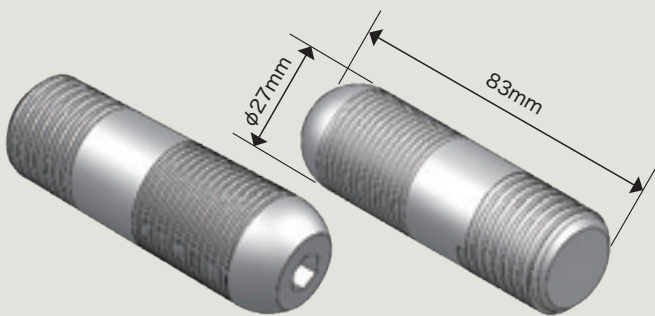


Nuts
【Material: Stainless steel】

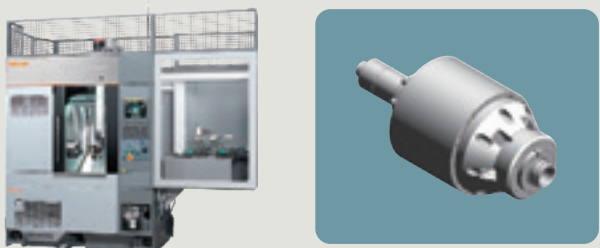


【Model with record of use】
XT-8

【Chuck】
TAKAMAZ TPC2-D26

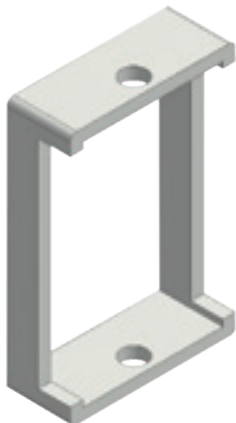


Pins
【Material: Chrome molybdenum steel】



【Model with record of use】
XT-8

【Chuck】
TAKAMAZ TPC2-D26



Frames
【Material: Kovar alloy】



【Model with record of use】
XT-8

Models for Turning Work of Construction Materials and Parts



Scrolls

【Material: Composite material comprising fluoropolymer + copper + gray cast iron】



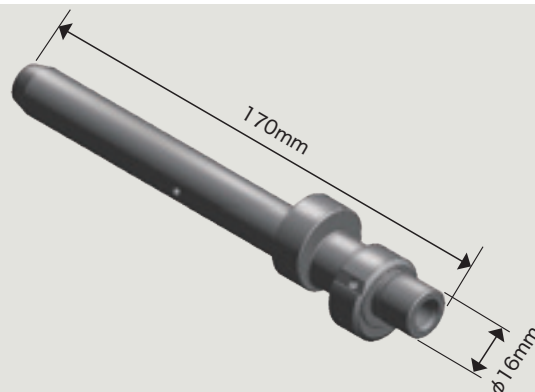
【Model with record of use】

XT-8M



【Chuck】

TAKAMAZ TIC-DD



Crankshafts

【Material: Spheroidal graphite cast iron】



【Model with record of use】

XT-8



【Chuck】

TAKAMAZ TPC2-D26



Housings

【Material: High-tensile strength steel】



【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC2-D150



Rotors

【Material: Soft magnetic iron】



【Model with record of use】

XT-8 · XY-120PLUS

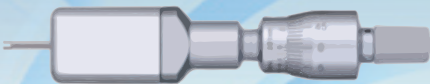


【Chuck】

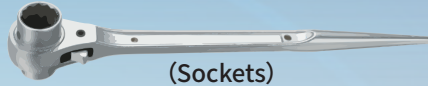
TAKAMAZ
TPC2-D43

Parts for Hand and Power Tools (Example of finished product)

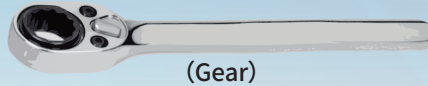
Inner diameter measuring instruments



Ratchet wrenches



(Sockets)



(Gear)

Torque wrenches

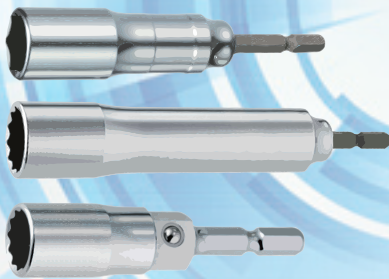


(Ratchet)

Impact drill parts



Sockets for power drills

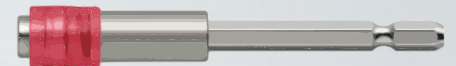


Hammers



(Cap)

Hexagon socket head holders



Screwdriver bits



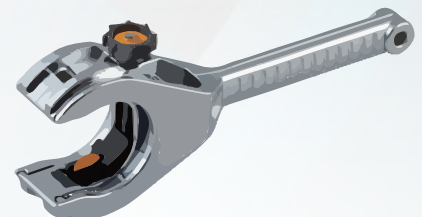
Sockets for impact wrenches



Sockets



Large ratchet pipe cutters



Sleeve and rebar binding machines



Small devices such as electric screwdrivers

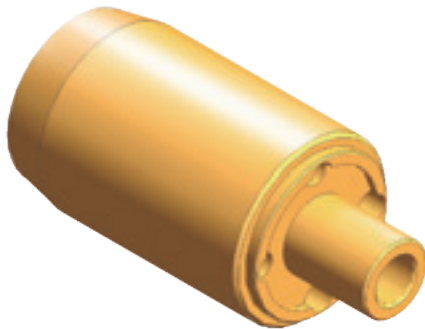


(Bearing boxes for motors)

Welding machines



Models for Machining Parts for Hand and Power Tools



Outer cylinders

【Material: Free-cutting brass】



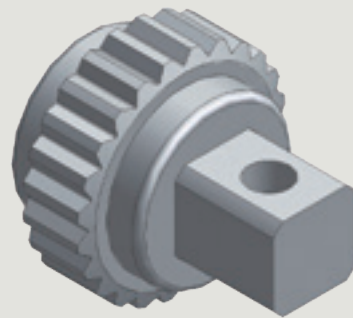
【Model with record of use】

XY-120PLUS



【Chuck】

TAKAMAZ TPC1-D26-C60



Ratchet

【Material: Chrome molybdenum steel】



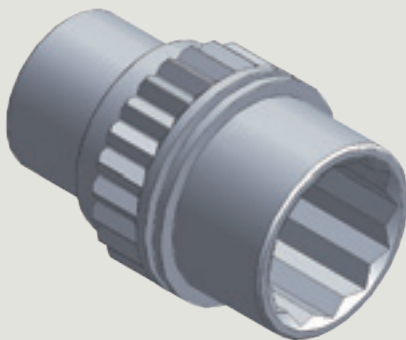
【Model with record of use】

XD-10i



【Chuck】

TAKAMAZ TPC1-D26-C60



Ratchet

【Material: Chrome vanadium alloy steel】



【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC1-D26-C60



Sockets

【Material: Chrome molybdenum steel】



【Model with record of use】

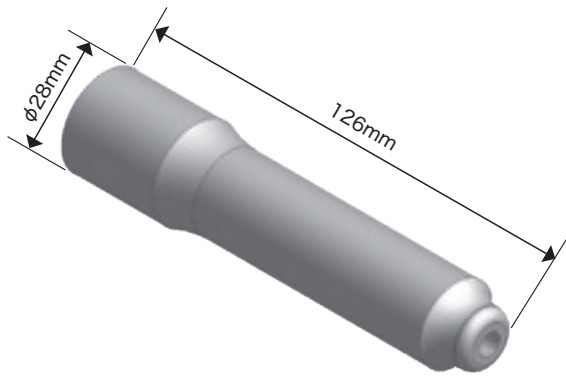
XT-6



【Chuck】

TAKAMAZ TPC1-D26-C60

Models for Machining Parts for Hand and Power Tools



Sockets

【Material: Carbon steel】



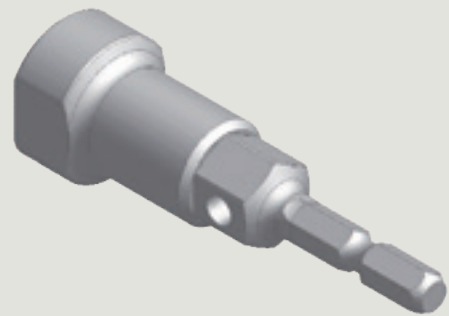
【Model with record of use】

XT-8



【Chuck】

(Left) TAKAMAZ TOC-2
(Right) TAKAMAZ TPC1-D26-C60



Sockets

【Material: Carbon steel】



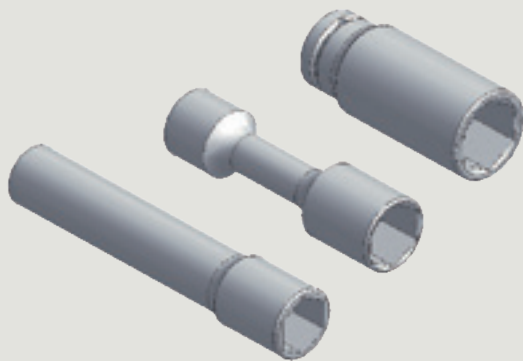
【Model with record of use】

XT-8



【Chuck】

(Left) TAKAMAZ TOC-2
(Right) TAKAMAZ TPC1-D26-C60



Sockets

【Material: Chrome molybdenum steel】



【Model with record of use】

XTS-6



【Chuck】

(Left) TAKAMAZ TOC-2
(Right) TAKAMAZ TPC1-D26-C60



Sockets

【Material: Carbon steel】



【Model with record of use】

XTS-6

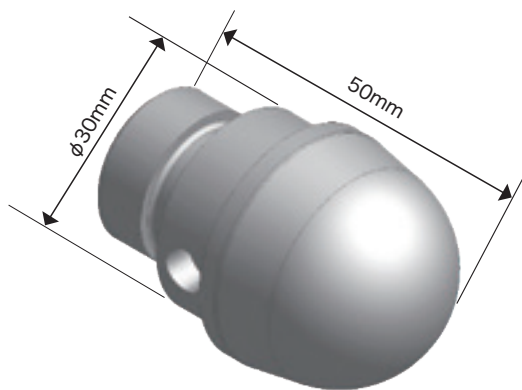


【Chuck】

(Left) TAKAMAZ TOC-2
(Right) TAKAMAZ TPC1-D26-C60



Models for Machining Parts for Hand and Power Tools



Cap

【Material: Spring steel】



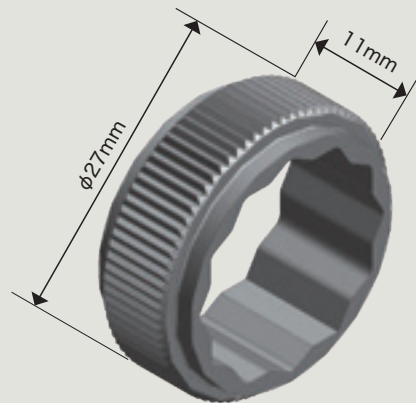
【Model with record of use】

XTS-6



【Chuck】

TAKAMAZ TPC1-D26-C60



Gear

【Material: Carbon steel for forging】



【Model with record of use】

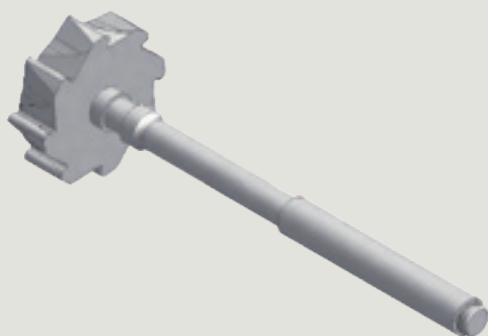
X-120



【Chuck】

(Left) TAKAMAZ TPC1-D26-C60

(Right) TAKAMAZ TIC1-N5 Multi-faceted clamping



Bolts

【Material: Chrome molybdenum steel】



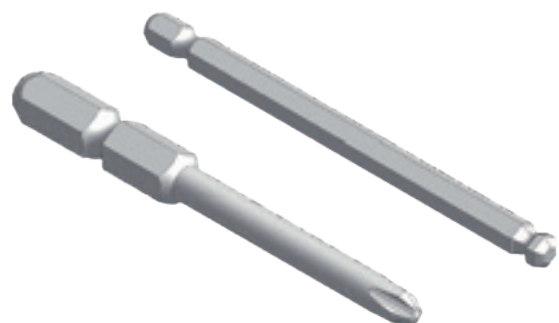
【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC2-D43



Screwdriver bits/ball points

【Material: Chrome molybdenum steel】



【Model with record of use】

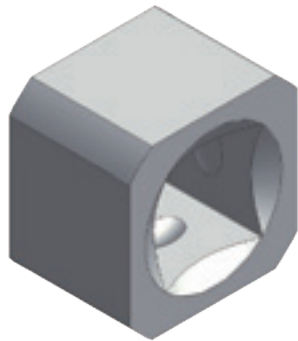
Polygon Machine



【Chuck】

TAKAMAZ TPC2-D26

Models for Machining Parts for Hand and Power Tools



Special tetragonal pipes

【Material: Chrome steel】



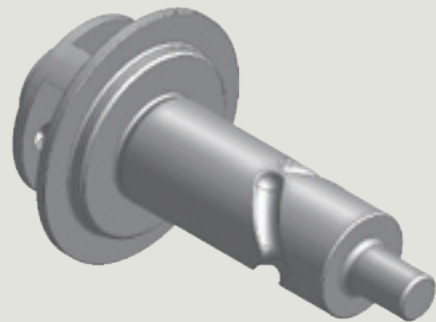
【Model with record of use】

XT-6M



【Chuck】

TAKAMAZ TPC1-D26-C80



Gear

【Material: Case-hardened steel】



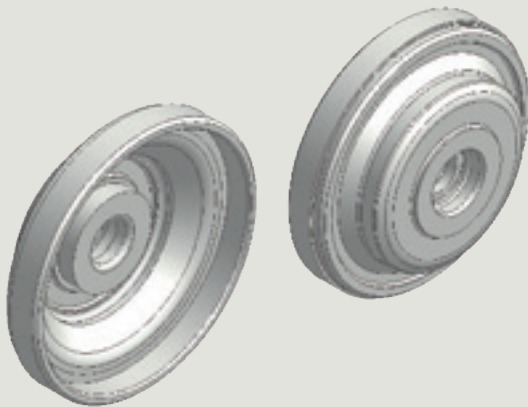
【Model with record of use】

XYT-51



【Chuck】

TAKAMAZ TPC1-D26-C80



Bearing boxes

【Material: Diecast aluminum】



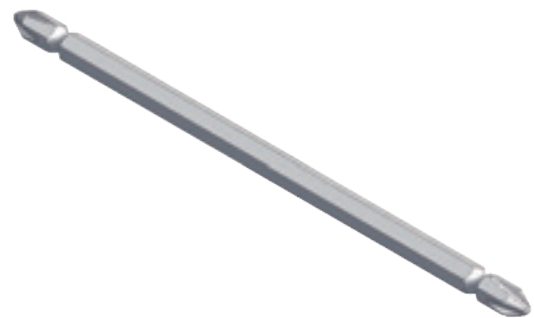
【Model with record of use】

XW-60



【Chuck】

TAKAMAZ TPC2-D150



Bits

【Material: Chrome molybdenum steel】



【Model with record of use】

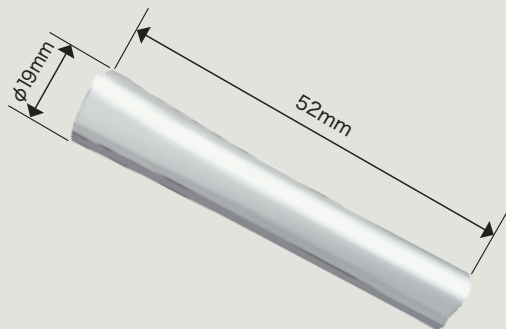
XY-120PLUS



【Chuck】

TAKAMAZ TPC2-D26

Models for Machining Parts for Hand and Power Tools



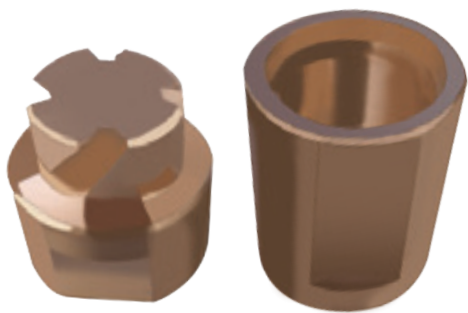
Grip sleeves
[Material: Stainless steel]



[Model with record of use]
XY-120PLUS



[Chuck]
TAKAMAZ TPC2-D26



Special screws
[Material: Steel]



[Model with record of use]
XY-120PLUS

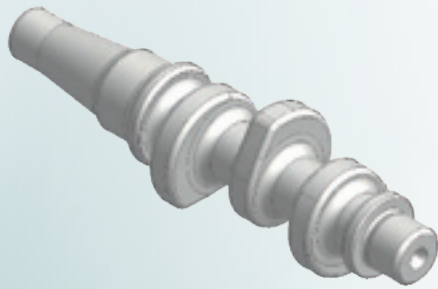


[Chuck]
TAKAMAZ TPC3-CS22(A2-5)

Made by TAKAMAZ:
Parts for
Construction
and Agricultural
Machinery



Models for Turning Work of Parts for Construction and Agricultural Machinery



Camshafts

【Material: Carbon steel】



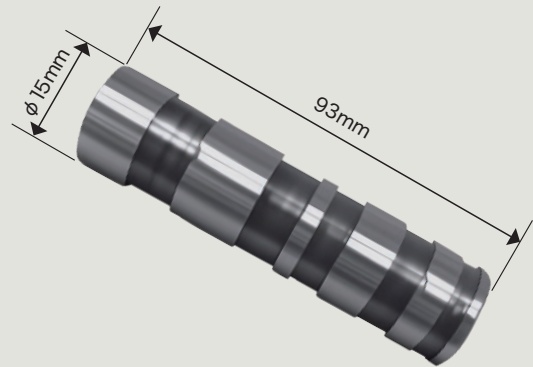
【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC3-Special



Spools

【Material: Carbon steel】



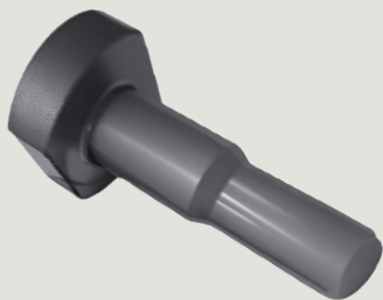
【Model with record of use】

XT-6M



【Chuck】

TAKAMAZ TPC2-D26



Bolts

【Material: Carbon steel for machine-building】



【Model with record of use】

XT-6M



【Chuck】

TAKAMAZ
TPC1-D26-C60・Odd shape clamping



Body

【Material: Carbon steel】



【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC1-D26-C60

Models for Turning Work of Parts for Construction and Agricultural Machinery



Feed hoses

【Material: Carbon steel for cold forging】



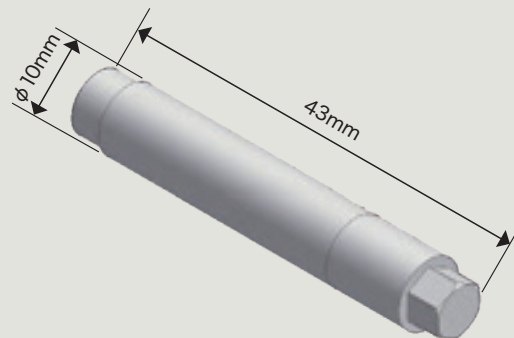
【Model with record of use】

XW-60



【Chuck】

TAKAMAZ TPC1-D26-C60



Retainers

【Material: Carbon steel】



【Model with record of use】

XT-8M



【Chuck】

TAKAMAZ TPC2-D26



Fuel camshaft

【Material: Carbon steel for machine-building】



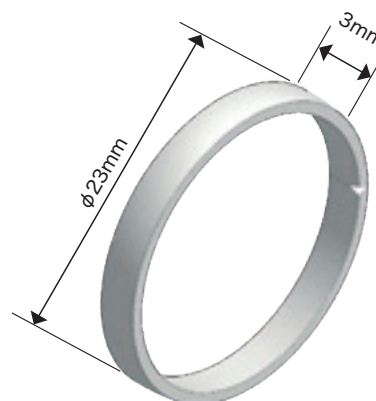
【Model with record of use】

XT-8



【Chuck】

TAKAMAZ TPC3-Special



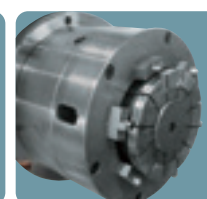
Ring piston

【Material: Bearing steel】



【Model with record of use】

XW-60



【Chuck】

(Left) TAKAMAZ TPC2-D150
(Right) TAKAMAZ TIC-DD

Models for Turning Work of Parts for Construction and Agricultural Machinery



Seats

【Material: Chrome molybdenum steel】



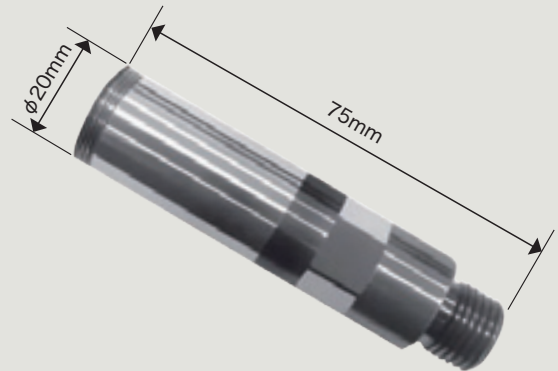
【Model with record of use】

XWG-3



【Chuck】

TAKAMAZ TPC3-CS14



Shafts

【Material: Carbon steel】



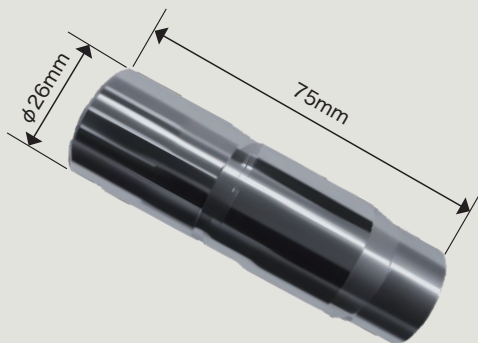
【Model with record of use】

XT-6



【Chuck】

TAKAMAZ TPC2-D26



Pistons

【Material: Chrome molybdenum steel】



【Model with record of use】

XT-8



【Chuck】

TAKAMAZ TPC2-D26



Pistons

【Material: Chrome molybdenum steel】



【Model with record of use】

XW-130・XW-60



【Chuck】

**TAKAMAZ
TPC2-D26**

Growing Demand in the Skies

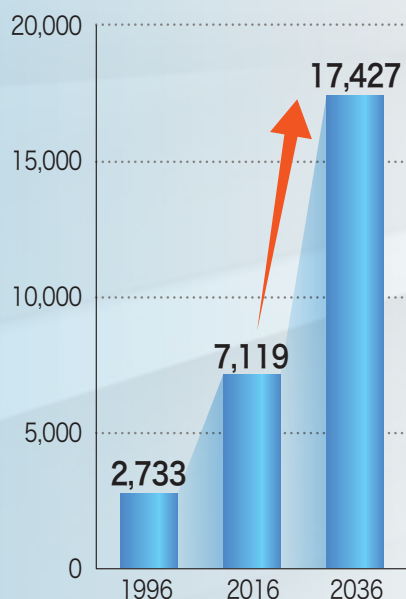
Trend in the world aircraft market

In the aircraft market from 2026 onward, we will see continued growth in passenger demand along with supply constraints. The passenger demand (RPK) in 2026 is 4.9% up on last year, and the Asia-Pacific region is the main driver of this trend, with its 7.3% increase. The total size of the market has reached \$124.95 billion in 2026, and is predicted to expand to \$130.67 billion in 2027, giving a compound annual growth rate (CAGR) of around 4.5%.

According to the long-term demand forecast (for passengers and cargo) for the worldwide civil aviation market covering twenty years (2017 to 2036), we can expect strong growth of 2.4-fold for passenger demand and 2.2-fold for cargo (average annual growth rates of 4.6% and 4.1% respectively) (see Diagrams 1 and 2).

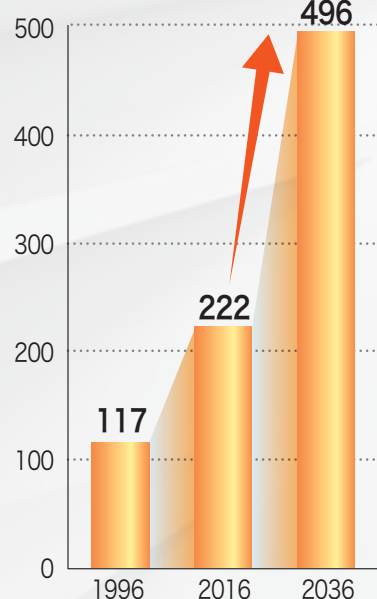
[Diagram 1]
**Global Air Passenger
Demand Forecast**

RPK (1 billion passenger kilometers)



[Diagram 2]
**Global Air Cargo
Demand Forecast**

RTK (1 billion tonne kilometers)



Note: RPK (Revenue Passenger Kilometers)

RTK (Revenue Tonne Kilometers)

References: From Japan Aircraft Development Corporation (JADC) Worldwide Market Forecast (2017 - 2036), March 2017

Created by Mitsubishi UFJ Research & Consulting

Source: Kanto Bureau of Economy, Trade and Industry: "Trends in the Aircraft Industry and the Right Time to Enter the Market"

Aircraft part machining using TAKAMAZ machines

Japanese domestic aircraft Market trend for aircraft parts

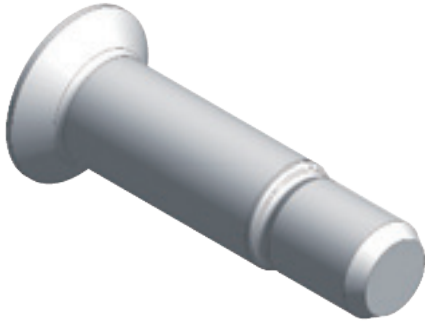
The value of Japanese domestic aircraft and aircraft part production is also increasing, and there is growth in engines and fuselage components for commercial passenger aircraft. There are expectations for further growth in the high-value-added aircraft sector as a new pillar of the manufacturing industry, offsetting the decline in demand for automotive parts.

However, this sector is subject to greater requirements to obtain certifications and attestations in accordance with international standards, and to maintain high quality control standards, than the automobile industry.

Furthermore, although the sector uses a large number of parts and has a broad industrial base, the annual production volumes are far lower than in the automotive industry. On the other hand, it is also characterized by product lifecycles that span several decades, offering business stability.



Aircraft part machining



Bolts

【Material: Titanium alloy】



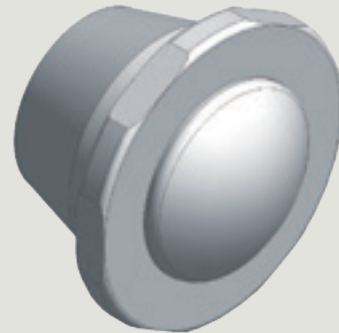
【Model with record of use】

XT-6



【chuck】

TAKAMAZ TOC-2



Plugs

【Material: SKD51】



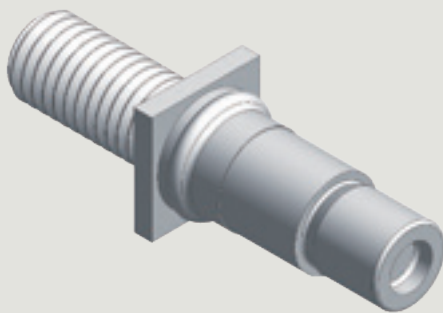
【Model with record of use】

XT-6M



【chuck】

TAKAMAZ TSC-D26-ST



Connecting bolts

【Material: SKD51】



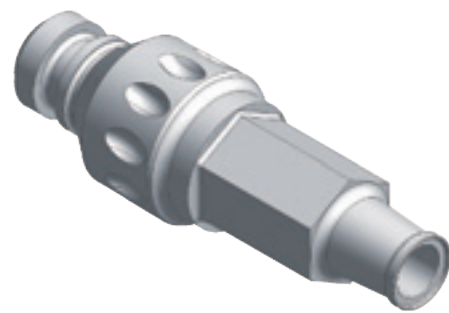
【Model with record of use】

XT-6M



【chuck】

TAKAMAZ TSC-D26-ST



Shafts

【Material: Inconel 713】



【Model with record of use】

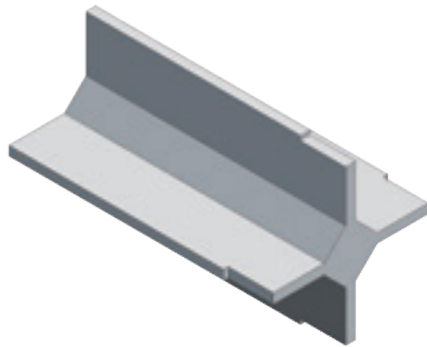
XT-8MY・XYT-51



【chuck】

TAKAMAZ TSC-D26-ST

Aircraft part machining



Springs

【Material: SUS316】



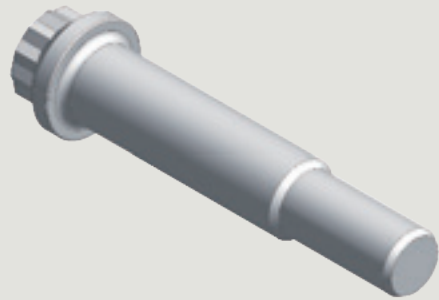
【Model with record of use】

XT-8MY・XYT-51



【chuck】

TAKAMAZ TSC-D26-ST



Bolts

【Material: NSF steel, Superalloy】



【Model with record of use】

XT-6M・XW-60M



【chuck】

TAKAMAZ TOC-2



Seal components

【Material: Teflon resin】



【Model with record of use】

XT-6・XT-8M・XT-8MY



【chuck】

TAKAMAZ TSC-D26-ST

Head Office and Plant

■ TAKAMATSU MACHINERY CO., LTD.

• HEAD OFFICE & PLANT

1-8 ASAHIGAOKA HAKUSAN-CITY ISHIKAWA JAPAN. 924-8558
TEL +81-(0)76-207-6155 FAX +81-(0)76-274-1418

• ASAHI PLANT

4-13 ASAHIGAOKA HAKUSAN-CITY ISHIKAWA JAPAN. 924-0004
TEL +81-(0)76-274-0123 FAX +81-(0)76-274-8530

Overseas Bases

■ TAKAMATSU MACHINERY U.S.A., INC.

• CHICAGO HEAD OFFICE

1280 LANDMEIER ROAD ELK GROVE VILLAGE, IL 60007 USA
TEL +1-(0)847-981-8577 FAX +1-(0)847-981-8599

■ TAKAMAZ MACHINERY EUROPE GmbH

IM HÜLSENFELD 19, 40721 HILDEN, GERMANY
TEL +49-(0)2103-789-4882 FAX +49-(0)2103-789-4883

■ TAKAMAZ MACHINERY (HANGZHOU) CO., LTD.

• HANGZHOU HEAD OFFICE

NO.6800, JIANGDONG 3RD ROAD, JIANGDONG INDUSTRIAL PARK,
XIAOSHAN, HANGZHOU, ZHEJIANG, CHINA
TEL +86-(0)571-8287-9709 FAX +86-(0)571-8215-3732

■ TAKAMATSU MACHINERY (THAILAND) CO., LTD.

• BANGKOK HEAD OFFICE

888/59 MOO 9, TAMBOL BANGPLA, AMPHUR BANGPLEE,
SAMUTPRAKARN PROVINCE, THAILAND
TEL +66-(0)2-136-7831 FAX +66-(0)2-136-7834

■ PT. TAKAMAZ INDONESIA

JL. FESTIVAL BOULEVARD BLOK AA 11 NO.30,31 GRAND WISATA TAMBUN, BEKASI 17510
TEL +62-(0)21-8261-6431 FAX +62-(0)21-8261-6430

■ TAKAMAZ MACHINERY MEXICO, S.A.DE C.V.

AVENIDA DE LOS INDUSTRIALES 522, LOCAL 4, INDUSTRIAL JULIAN DE OBREGON,
37290 LEON, GUANAJUATO MEXICO
TEL +52-477-784-0468

■ TAKAMATSU MACHINERY VIETNAM CO., LTD

NO.76 M HOANG QUOC VIET, PHU MY WARD, DISTRICT 7, HO CHI MINH CITY, VIETNAM
TEL +84-(0)28-3620-5671 FAX +84-(0)28-3620-5673

Affiliated Companies

■ HANGZHOU FEELER TAKAMATSU MACHINERY CO., LTD.

NO.6800, JIANGDONG 3RD ROAD, JIANGDONG INDUSTRIAL PARK,
XIAOSHAN, HANGZHOU, ZHEJIANG, CHINA
TEL +86-(0)571-8215-3760 FAX +86-(0)571-8286-5311

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