Live Tooling
For TSUGAMI Swiss Machines

- Exceptionally Accurate Spindle Concentricity
- Hardened And Ground Gearing For Smooth And Quiet Service Life
- Maintenance Friendly Designs Are Serviceable
- Innovative Sealing System Protects Internals From Debris And Cutting Oil Contamination
- Includes REGO-FIX Hi-Q Collet Nuts

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**BW20-GSC-105-4X**
- ER08 Spindle
- 30,400 Max RPM
- 1:3.8 Gear Ratio
- Gang Tool T01, T02, T11, T12

**B07-GSC-105-4X**
- ER08 Spindle
- 22,800 Max RPM
- 1:3.8 Gear Ratio
- Gang Tool T01

**B07-GSC-107-4X**
- ER11 Spindle
- 22,800 Max RPM
- 1:3.8 Gear Ratio
- Gang Tool T01

**B07-GSC-110**
- ER16 Spindle
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T01

**B07-RSC-107-2X**
- 2 ER11 Spindles
- 16,000 Max RPM
- 1:2 Gear Ratio
- Gang Tool T01

**B07-RSC-107-1K-2X**
- 2 ER11 Spindles
- 16,000 Max RPM
- 1:2 Gear Ratio
- Gang Tool T01
- Internal Cooling

**B07-RSC-207**
- 2 ER11 Spindles
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T01

**B07-GSA-207**
- 2 ER11 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T01
- Adjustable 90°
Angled Drilling & Milling

**B07-GSA-207-IK**
- 2 ER11 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T01
- Adjustable 90°
- Internal Cooling

TSUGAMI B01, B02, B07

**B07-GSA-207-2X**
- 2 ER11 Spindles
- 16,000 Max RPM
- 1:2 Gear Ratio
- Gang Tool T01
- Adjustable 90°
- Internal Cooling

TSUGAMI B01, B02, B07

**B07-GSA-207-IK-2X**
- 2 ER11 Spindles
- 16,000 Max RPM
- 1:2 Gear Ratio
- Gang Tool T01
- Adjustable 90°
- Internal Cooling

TSUGAMI B01, B02, B07

Slitting Saw

**B07-GSS-110**
- ER16 Spindle
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T01
- Max Saw OD 70mm

TSUGAMI B01, B02, B07

Thread Milling

**B07-GSF-418**
- 8mm Arbor
- 8,000 Max RPM
- 1:1 Gear Ratio
- Thread Mill OD 72mm
- Thread Mill Width 3-5mm

TSUGAMI B01, B02, B07

**B07-GSF-518**
- 8mm Arbor
- 8,000 Max RPM
- 1:1 Gear Ratio
- Thread Mill OD 72mm
- Thread Mill Width 3-5mm
- Adjustable 1.5°
- Machine Type: B01, B02, B07

TSUGAMI B01, B02, B07

Radial Drilling & Milling

**B026-GSC-105-4X**
- ER08 Spindle
- 22,800 Max RPM
- 1:3.8 Gear Ratio
- Gang Tool T11-T15

TSUGAMI B026-II, B032-II

**B026-GSC-107-4X**
- ER11 Spindle
- 22,800 Max RPM
- 1:3.8 Gear Ratio
- Gang Tool T11-T15

TSUGAMI B026-II, B032-II

**B026-GSC-107-3X**
- ER11 Spindle
- 15,000 Max RPM
- 1:3 Gear Ratio
- Gang Tool T11-T15

TSUGAMI B026-II, B032-II
**B026-BSC-110-HP**
- ER11 Spindle
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11-T15
- Internal Cooling

**B026-RSE-110**
- 2 ER16 Spindles
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended

**B026-RSE-110-MIK**
- 2 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended
- Internal Cooling

**B026-RSE-110**
- ER16 Spindle
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended

**B026-RSE-110**
- ER16 Spindle
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

**B026-RSE-210**
- 4 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended

**B026-RSE-210**
- 4 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

**B026-RSE-210**
- 6 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended

**B026-BSC-110-HP**
- ER11 Spindle
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11-T15
- Internal Cooling

**B026-RSE-110M**
- ER16 Spindle
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

**B026-RSE-110M**
- ER16 Spindle
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Internal Cooling

**B026-RSE-210M**
- 2 ER16 Spindles
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

**B026-RSE-210M**
- 2 ER16 Spindles
- 8000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

**B026-RSE-310**
- 6 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended

**TSUGAMI B026, B032, B038**
- Radial Drilling & Milling
- Axial Drilling & Milling
- Axial Drilling & Milling

**TSUGAMI B026-II, B032-II**
- Radial Drilling & Milling
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
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- Axial Drilling & Milling
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**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
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**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

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- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling

**TSUGAMI B026, B032, B038**
- Axial Drilling & Milling
BO26-RSE-310M
- 3 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Internal Cooling

BO26-RSE-310M-IK
- 6 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11
- Double-Ended
- Internal Cooling

BO26-RSS-110
- ER16 Spindle
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11, T13
- Max Saw OD 70mm

BO26-RSE-310-IK
- 3 ER16 Spindles
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11

Axial Drilling & Milling

S20-RSC-107-3X
- ER11 Spindle
- 24,000 Max RPM
- 1:3 Gear Ratio
- Gang Tool T31-T34
- Takes 2 Positions T35-T38

S20-RSS-110
- ER16 Spindle
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11, T13
- Max Saw OD 70mm

S20-RSE-107-3X
- ER11 Spindle
- 24000 Max RPM
- 1:3 Gear Ratio
- Gang Tool T01, T02, T11-15
- Takes 2 Positions T35-T38

Radial Drilling & Milling

S20-GSC-107-3X-II
- ER11 Spindle
- 15,000 Max RPM
- 1:3 Gear Ratio
- Gang Tool T01, T02, T11-15

Radial Drilling & Milling

S20-GSP-613
- 13mm Arbor
- 8,000 Max RPM
- 1:1 Gear Ratio
- Gang Tool T11, T13
- Max Tool OD 72mm
- Max Tool Thickness 8.3mm

Polygon Milling

TSUGAMI B026, B032, B038

TSUGAMI S205, S206

TSUGAMI S205, S206

TSUGAMI S205, S206

TSUGAMI S205, S206, HS20, HS32

Slitting Saw

Thread Whirling

High Speed!
**High Speed!**

**Axial Drilling & Milling**
- **HS20-GSE-107-3X-II**
  - ER11 Spindle
  - 15,000 Max RPM
  - 1:3 Gear Ratio
  - Back Tool Post T31-T34
  - Takes 2 Positions T35-T38
  - TSUGAMI S205, S206, HS20, HS32

**Polygon Milling**
- **HS20-GSP-613**
  - 13mm Arbor
  - 5,000 Max RPM
  - 1:1 Gear Ratio
  - Gang Tool T01,02,11-15
  - Max Tool OD 72mm
  - Max Tool Thickness 8.3mm
  - TSUGAMI SS20, SS32, HS20, HS32

**Radial Drilling & Milling**
- **P03-GSC-015**
  - ER08 Spindle
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Max Tool OD 45mm
  - TSUGAMI P034H

**Axial Drilling & Milling**
- **P03-GSE-207-II**
  - 2 ER11 Spindles
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - TSUGAMI P034H

**Gear Hobbing**
- **P03-GSH-135-L**
  - 3.5mm Arbor
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Adjustable ±2.5°
  - TSUGAMI P034

**Polygon Milling**
- **P03-GSP-118**
  - 8mm Arbor
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Adjustable ±2.5°
  - Max Tool OD 45mm
  - TSUGAMI P034H

**Polygon Milling**
- **P03-GSP-218**
  - 8mm Arbor
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Adjustable ±2.5°
  - Max Tool OD 45mm
  - TSUGAMI P034H

**Polygon Milling**
- **P03-GSP-318**
  - 8mm Arbor
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Adjustable In X ±2.5°
  - Adjustable In Y ±1.5°
  - Max Tool OD 45mm
  - TSUGAMI P034H

**Thread Whirling**
- **P03-GSW-220**
  - Utilis Whirling Ring
  - 8000 Max RPM
  - 1:1 Gear Ratio
  - Adjustable 0-20°
  - Flight Circle 6mm
  - TSUGAMI P034
Replaces Main Block
• 4 Tool Positions
  1. 8mm x 8mm Square Shank
  2. 8mm x 8mm Square Shank
  3. Holder For High Speed Spindle Ø25mm
  4. ER11 High Speed Spindle 16000RPM
  5. Modular Quick Change For Round Holders

3 Positions (Ø16mm)

7 Positions (8x8mm)

P03-GDF-416
P03-GDF-516
P03-GTF-018

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• Live Swiss Machine Attachments Restored to Factory Specification
• We Will Restore PCM and All Major OEM Brands
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