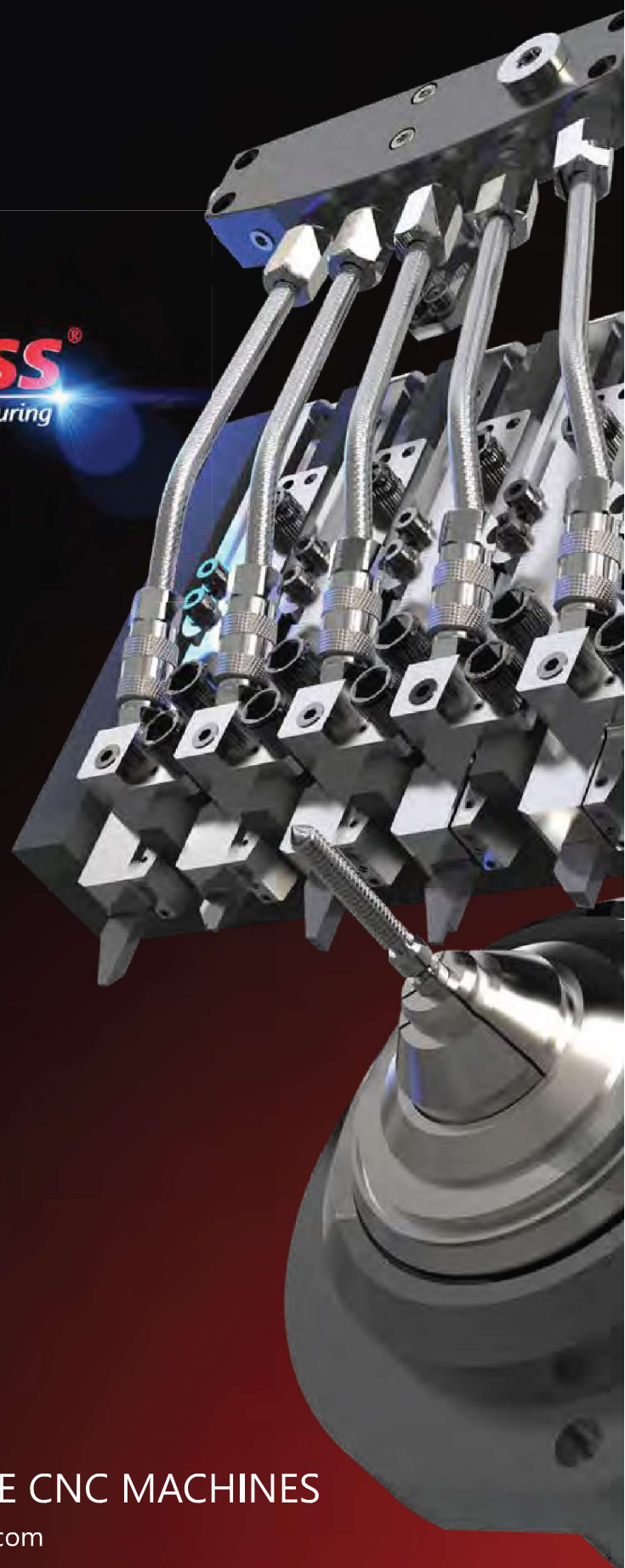




2019 Catalog

Version 10.19



TOOLING FOR SWISS-TYPE CNC MACHINES

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TSUGAMI SS20/32, HS20/32

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
SS20 SS32 HS20 HS32	Radial Drilling / Milling	HS20-GSC-107-3X-II	(1) ER11	1:3	High speed spindle up to 15,000 RPM
	Axial Drilling / Milling	HS20-GSE-107-3X-II	(1) ER11	1:3	High speed spindle up to 15,000 RPM
	Polygon Milling	HS20-GSP-613	(1) 13mm	1:1	Max tool Ø72mm, Max tool thickness 8.3mm



HS20-GSC-107-3X-II
Radial Drill/Mill
Collet Size: ER11
Output: 1:3
High Speed
Machine: SS20/32,
HS20/32



HS20-GSE-107-3X-II
Radial Drill/Mill
Collet Size: ER11
Output: 1:3
High Speed
Machine: SS20/32,
HS20/32



HS20-GSP-613
Polygon Milling
Tool Size:
ID Ø13
OD Ø72
Tool Thickness 8.3mm
Output: 1:1
Machine: SS20/32,
HS20/32

TSUGAMI BW20

Swiss Made by



Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
BW207 BW208 BW208Z BW209Z	Radial Drilling / Milling	BW20-GSC-105-4X	(1) ER08	1:3.8	High speed spindle up to 30,400 RPM



BW20-GSC-105-4X
Radial Drill/Mill
Collet Size: ER08
Output: 1:3.8
High Speed
Machine: BW20

TSUGAMI S205/206

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
S205 S206	Radial Drilling / Milling	S20-RSC-107-3X	(1) ER11	1:3	High speed spindle up to 24,000 RPM
	Axial Drilling / Milling	S20-RSE-107-3X	(1) ER11	1:3	High speed spindle up to 24,000 RPM
	Polygon Milling	S20-GSP-613	(1) 13mm	1:1	Max tool Ø72mm Max tool thickness 8.3mm
	Slitting Saw	S20-RSS-110	(1) ER16	1:1	Max tool Ø70mm
	Thread Whirling	TSUGAMI1-GSW-220	(1) Utilis	1:1	Adjustable 0-20°, Utilis ring: 6mm flight circle



S20-RSC-107-3X
Radial Drilling / Milling
Collet Size: ER11
Output: 1:3
High Speed
Machine: S205/S206



S20-RSE-107-3X
Axial Drilling / Milling
Collet Size: ER11
Output: 1:3
High Speed
Machine: S205/S206



S20-GSP-613
Polygon Milling
Tool Size:
ID Ø13
OD Ø72
Tool Thickness 8.3mm
Output: 1:1
Machine: S205/S206



S20-RSS-110
Slotted Saw
Arbor Size: ER16
Output: 1:1
Max Tool Ø: 70mm
Machine: S205/S206



TSUGAMI1-GSW-220
Thread Whirling
Ring: Utilis Ring
Output: 1:1
Adjustable 0-20°
Flight Circle 6mm
Machine: S205/S206

TSUGAMI B026-II/032-II

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
B0265 II B0265B II B0266 II B0325 II B0325B II B0326 II	Radial Drilling / Milling	B026-GSC-105-4X	(1) ER08	1:3.8	High speed spindle up to 22,800 RPM
		B026-GSC-107-4X	(1) ER11	1:3.8	High speed spindle up to 22,800 RPM
		B026-GSC-107-3X	(1) ER11	1:3	High speed spindle up to 15,000
		B026-BSC-110-HP	(1) ER11	1:1	Internal coolant-thru



B026-GSC-105-4X
Radial Drill/Mill
Collet Size: ER08
Output: 1:3.8
High Speed
Machine: B026-II/B032-II



B026-GSC-107-4X
Radial Drill/Mill
Collet Size: ER11
Output: 1:3.8
High Speed
Machine: B026-II/B032-II



B026-GSC-107-3X
Radial Drill/Mill
Collet Size: ER11
Output: 1:3
High Speed
Machine: B026-II/B032-II



B026-BSC-110-HP
Radial Drill/Mill
Collet Size: ER11
Output: 1:1
Internal Coolant-Thru
Machine: B026-II/B032-II

TSUGAMI B026/032/038

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
B026 B032 B038	Axial Drilling / Milling	B026-RSE-110	(2) ER16	1:1	Double-ended
		B026-RSE-110-IK	(2) ER16	1:1	Double-ended, Internal coolant-thru
		B026-RSE-110M	(1) ER16	1:1	
		B026-RSE-110M-IK	(1) ER16	1:1	Internal coolant-thru
		B026-RSE-210	(4) ER16	1:1	Double-ended
		B026-RSE-210-IK	(4) ER16	1:1	Double-ended, Internal coolant-thru
		B026-RSE-210M	(2) ER16	1:1	
		B026-RSE-310	(6) ER16	1:1	Double-ended
		B026-RSE-310-IK	(6) ER16	1:1	Double-ended, Internal coolant-thru
		B026-RSE-310M	(3) ER16	1:1	
		B026-RSE-310M-IK	(3) ER16	1:1	Internal coolant-thru



B026-RSE-110
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Double-Ended
Machine: B026/32/38



B026-RSE-110-IK
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Internal Coolant-Thru
Double-Ended
Machine: B026/32/38



B026-RSE-110M
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Machine: B026/32/38



B026-RSE-110M-IK
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Internal Coolant-Thru
Machine: B026/32/38



B026-RSE-210
Axial Drilling / Milling
Arbor Size: ER16
Output: 1:1
Double-Ended
Machine: B026/32/38



B026-RSE-210-IK
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Double-Ended
Internal Coolant-Thru
Machine: B026/32/38



B026-RSE-210M
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Machine: B026/32/38



B026-RSE-310
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Double-Ended
Machine: B026/32/38



B026-RSE-310-IK
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Double-Ended
Internal Coolant-Thru
Machine: B026/32/38



B026-RSE-310M
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Machine: B026/32/38



B026-RSE-310M-IK
Axial Drilling / Milling
Collet Size: ER16
Output: 1:1
Internal Coolant-Thru
Machine: B026/32/38

TSUGAMI B01-III/02-III/07-III

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
B073-III B074-III B075-III B0123-III B0124-III B0125-III B0126-III B0203-III B0204-III B0205-III B0206-III	Radial Drilling / Milling	B07-GSC-105-4X	(1) ER08	1:3.8	High speed spindle up to 22,800 RPM
		B07-GSC-107-4X	(1) ER11	1:3.8	High speed spindle up to 22,800 RPM
		B07-GSC-110	(1) ER16	1:1	
	Axial Drilling / Milling	B07-RSE-207	(2) ER11	1:1	
		B07-RSE-207-IK	(2) ER11	1:1	Internal coolant-thru
		B07-RSE-207-2X	(2) ER11	1:2	High speed spindle up to 16,000 RPM
		B07-RSE-207-IK-2X	(2) ER11	1:2	High speed spindle up to 16,000 RPM, Internal coolant-thru
	Angled Drilling / Milling	B07-GSA-207	(2) ER11	1:1	Adjustable 90°
		B07-GSA-207-IK	(2) ER11	1:1	Adjustable 90°, Internal coolant-thru
		B07-GSA-207-2X	(2) ER11	1:2	High speed spindle up to 16,000 RPM, Adjustable 90°
		B07-GSA-207-IK-2X	(2) ER11	1:2	High speed spindle up to 16,000 RPM, Adjustable 90°, Internal coolant-thru
		B07-GSS-110	(1) ER16	1:1	Max tool Ø70mm
	Slitting Saw	B07-GSF-418	(1) 8mm	1:1	Max tool Ø72mm, Tool width 3-5mm
	Thread Milling	B07-GSF-518	(1) 8mm	1:1	Max tool Ø72mm, Tool width 3-5mm, Adjustable 1.5°



B07-GSC-105-4X
Radial Drilling / Milling
Collet Size: ER08
Output: 1:3.8
High Speed
Machine: B01/02/07



B07-GSC-107-4X
Radial Drilling / Milling
Collet Size: ER11
Output: 1:3.8
High Speed
Machine: B01/02/07



B07-GSC-110
Radial Drilling / Milling
Collet Size: ER16
Output: 1:1
Machine: B01/02/07



B07-RSE-207
Axial Drilling / Milling
Collet Size: ER11
Output: 1:1
Machine: B01/02/07



B07-RSE-207-IK
Axial Drilling / Milling
Collet Size: ER11
Output: 1:1
Internal Coolant-Thru
Machine: B01/02/07



B07-RSE-207-2X
Axial Drilling / Milling
Collet Size: ER11
Output: 1:2
High Speed
Machine: B01/02/07



B07-RSE-207-IK-2X
Axial Drilling / Milling
Collet Size: ER11
Output: 1:2
High Speed
Internal Coolant-Thru
Machine: B01/02/07



B07-GSA-207
Angled Drilling / Milling
Arbor Size: ER11
Output: 1:1
Adjustable 90°
Machine: B01/02/07



B07-GSA-207-IK
Angled Drilling / Milling
Arbor Size: ER11
Output: 1:1
Adjustable 90°
Internal Coolant-Thru
Machine: B01/02/07



B07-GSA-207-2X
Angled Drilling / Milling
Arbor Size: ER11
Output: 1:2
Adjustable 90°
High Speed
Machine: B01/02/07



B07-GSA-207-IK-2X
Angled Drilling / Milling
Arbor Size: ER11
Output: 1:2
Adjustable 90°
High Speed,
Internal Coolant-Thru
Machine: B01/02/07



B07-GSS-110
Slotted Saw
Arbor Size: ER16
Output: 1:1
Max Tool Ø: 70mm
Machine: B01/02/07



B07-GSF-418
Thread Milling
Tool Size: 8mm
Output: 1:1
Max Tool Ø: 72mm
Tool Width: 3-5mm
Machine: B01/02/07



B07-GSF-518
Thread Milling
Tool Size: 8mm
Output: 1:1
Max Tool Ø: 72mm
Tool Width: 3-5mm
Adjustable 1.5°
Machine: B01/02/07

TSUGAMI P034H

Swiss Made by



Machine	Operation	Item No.	Size	Output	Notes
P034H	Axial Drilling / Milling	P03-GSE-207-II	(2) ER11	1:1	
	Radial Drilling / Milling	P03-GSC-015	(1) ER08	1:1	
	Gear Hobbing	P03-GSH-135-L	(1) 3.5mm	1:1	Adjustable $\pm 2.5^\circ$
	Polygon Milling	P03-GSP-118	(1) 8mm	1:1	Adjustable $\pm 2.5^\circ$, Max tool $\varnothing 45\text{mm}$
		P03-GSP-218	(1) 8mm	1:1	Adjustable $\pm 2.5^\circ$, Max tool $\varnothing 45\text{mm}$, Cutter offset
		P03-GSP-318	(1) 8mm	1:1	Adjustable in X $\pm 2.5^\circ$, Adjustable in Y $\pm 1.5^\circ$, Max tool $\varnothing 45\text{mm}$
	Thread Whirling	P03-GSW-220	(1) Utilis	1:1	Adjustable 0-20°
	Static Holders & Blocks	P03-GDF-416	(3) 16mm		
		P03-GDF-516	(3) 16mm		
		P03-GTF-018	(7) 8x8mm		
	Main Block Tool Holder with Gang Slide and High Speed Spindle	P03-GSC-117-S	See Notes To The Right	1:2	(2) 8x8mm square shank (1) $\varnothing 25\text{mm}$ holder for high speed spindle (1) ER11 high speed spindle, Up to 16,000 RPM (1) Modular



P03-GSE-207-II
End Drilling / Milling
Collet Size: ER11
Output: 1:1
Machine: P034H



P03-GSC-015
Cross Drilling / Milling
Collet Size: ER08
Output: 1:1
Machine: P034H



P03-GSH-135-L
Gear Hobbing
ID Size: $\varnothing 3.5\text{mm}$
Output: 1:1
Adjustable $\pm 2.5^\circ$
Machine: P034H



P03-GSP-118
Polygon Milling
Tool Size: $\varnothing 8\text{mm}$
Output: 1:1
Max Tool $\varnothing$: 45mm
Adjustable $\pm 2.5^\circ$
Machine: P034H



P03-GSP-218
Polygon Milling
Arbor Size: $\varnothing 8\text{mm}$
Output: 1:1
Max Tool $\varnothing$: 45mm
Adjustable $\pm 2.5^\circ$
Cutter Offset
Machine: P034H



P03-GSP-318
Polygon Milling
Arbor Size: $\varnothing 8\text{mm}$
Output: 1:1
Max Tool $\varnothing$: 45mm
Y Adjustable $\pm 1.5^\circ$
X Adjustable $\pm 2.5^\circ$
Machine: P034H



P03-GSW-220
Thread Whirling
Ring: Utilis
Output: 1:1
9 or 12 Insert Cutter,
Adjustable 0-20°
Machine: P034H



P03-GDF-416
Static Tool Holder
Tool Size: $\varnothing 16\text{mm}$
Machine: P034H



P03-GDF-516
Static Tool Holder
Tool Size: $\varnothing 16\text{mm}$
Machine: P034H



P03-GTF-018
Static Tool Holder
Tool Size: 8mmx8mm
Machine: P034H



P03-GSC-117-S
Main Block Tool Holder
Collet Size: ER11
Output: 1:2
Tool N°01 cutter carrier 8mm x 8mm
Tool N°02 cutter carrier 8mm x 8mm
Tool N°03 high frequency $\varnothing 25$
Tool N°04 in ER11 with RPM 16'000.
Tool N°05 is a modular quick change for different operation.
Machine: P034H