August 2016
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10 YEARS
1/15

NEW PRODUCT NEWS

T-BURST
HIGH PRESSURE

new

A New T-BURST Holder for Swiss Turning Applications

TaeguTec
Member IMC Group

KEY POINT

TaeguTec is pleased to introduce a new addition to the T-BURST high pressure coolant holder for swiss turning applications.

The **T-BURST** holder for swiss turning applications, as with the current **T-BURST** holder, applies high pressure coolant from dual holes directly between the metal chip and the insert's rake face for optimum chip control, extended tool life as well as increased productivity through higher cutting speeds and feed rates.

It is capable of handling coolant pressure up to 140 [bar] maximum and is designed to machine miniature products generally found in the automotive, medical and aerospace sectors. The new **T-BURST** holder is ideally suited for machining difficult-to-cut materials such as stainless steel, titanium, inconel and other heat resistant alloys.

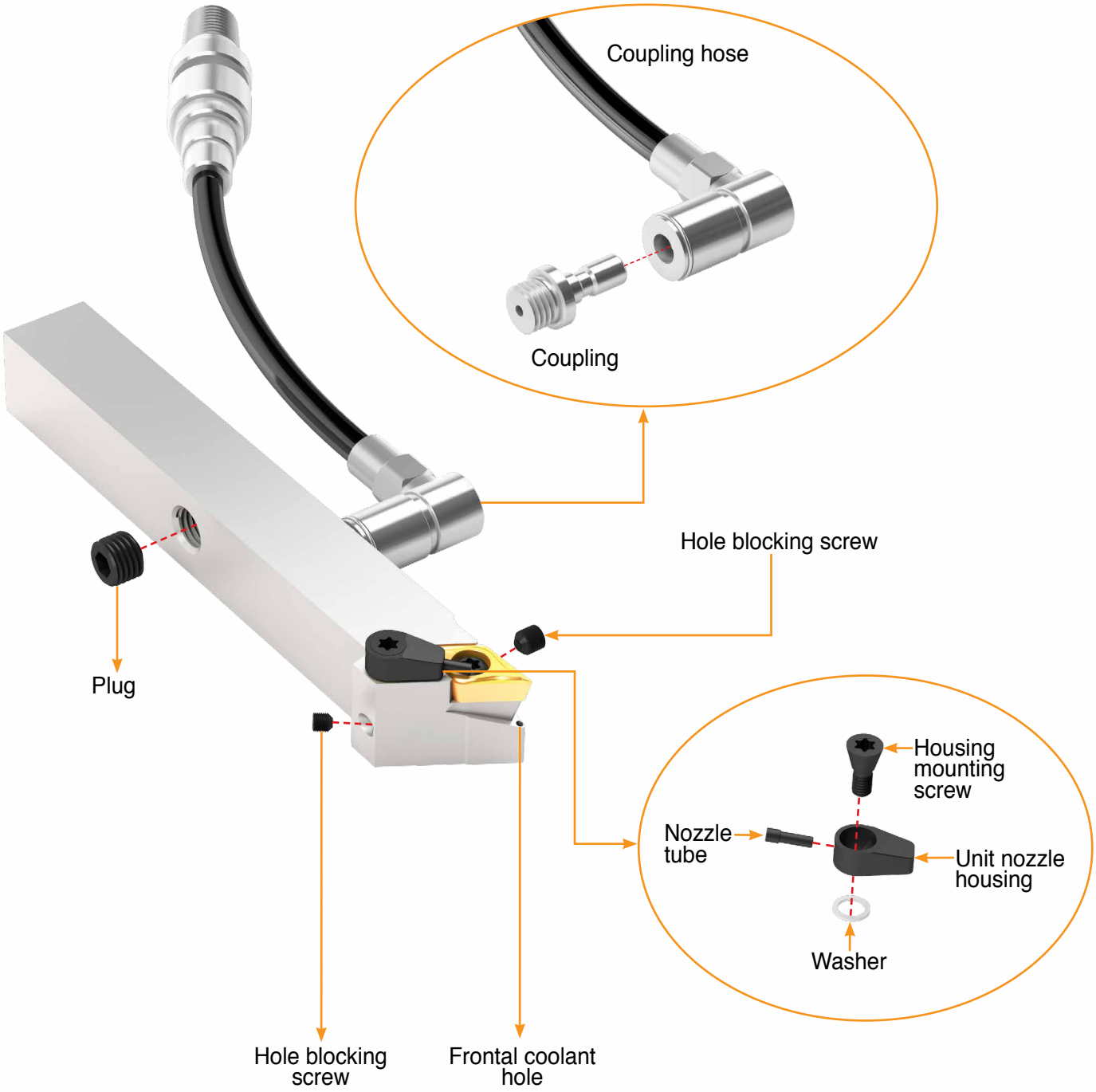
For added convenience, a simple coupling (one-touch exchange) system has been introduced. The hose connecting the machine to the holder can be easily and quickly attached or detached for replacement.

The coupling system's hoses are available in two lengths: 200 mm and 300 mm depending on the machine's specifications.

Features

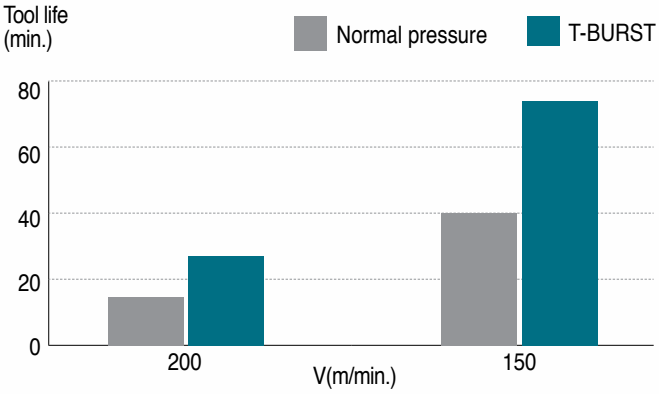
- Excellent chip control
- Increased tool life under the same cutting conditions
- Better productivity in higher cutting conditions because both the cutting speed and feed rate are increased
- Simplified hose set coupling system for quick holder set-up

Swiss turn T-BURST holder components



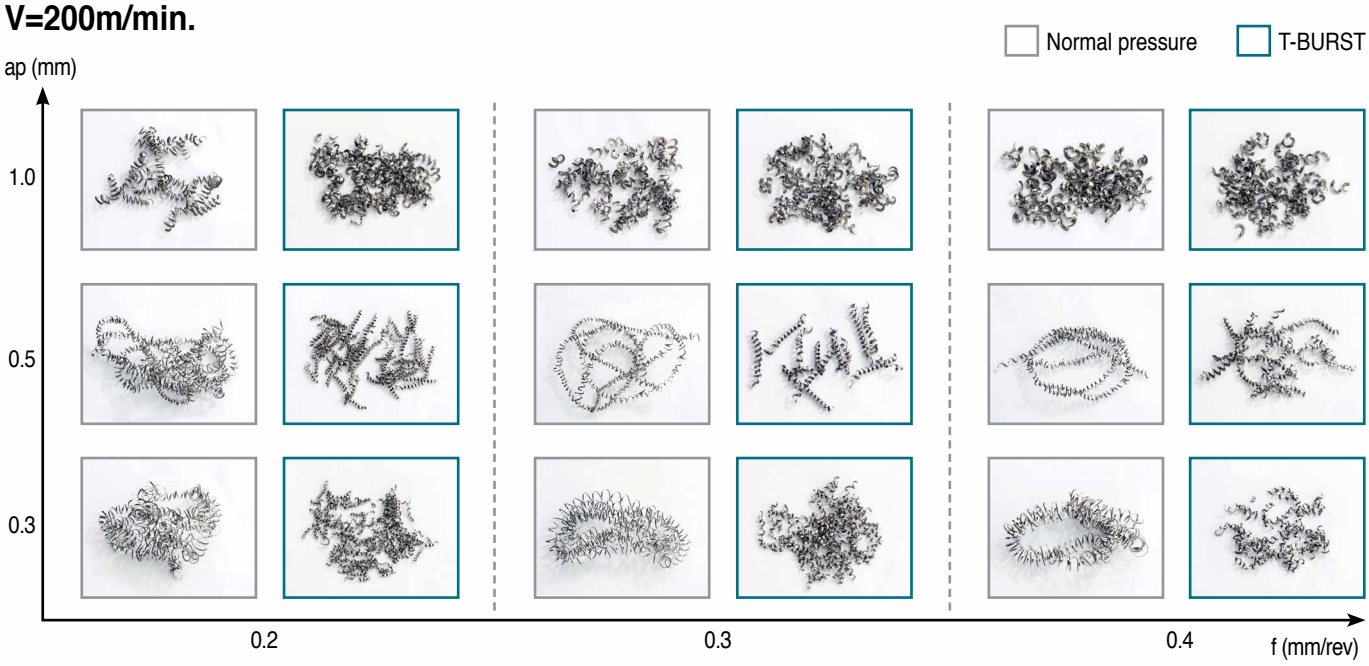
T-BURST vs normal pressure tool life test results

Workpiece material	Stainless steel
Operation	Ext, Wet
Test coolant pressure	69 bar



T-BURST vs normal pressure chip breaking test results

V=200m/min.



SCACR/L-SH-TB

T-BURST holder

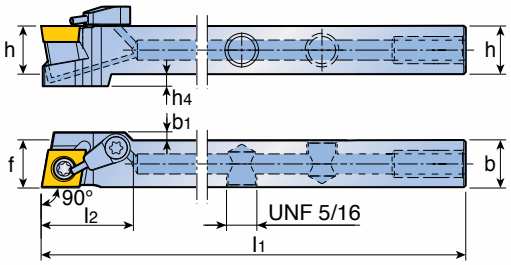


Fig.1

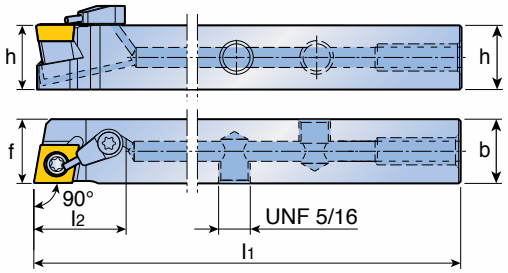
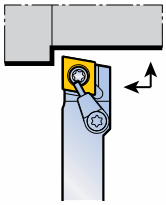


Fig.2

Approach angle	Designation	Dimension (mm)							Fig.	Insert
		h	b	l1	l2	f	b1	h4		
90°	SCACR/L 1212 K09-SH-TB	12	12	125	23	12	2	3	1	CC...T 09T3...
	1616 K09-SH-TB	16	16	125	23	16	-	-	2	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SCACR/L...TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	SS M3x0.5x3-NL	T 15	L-W 5/32

SCLCR/L-SH-TB

T-BURST holder

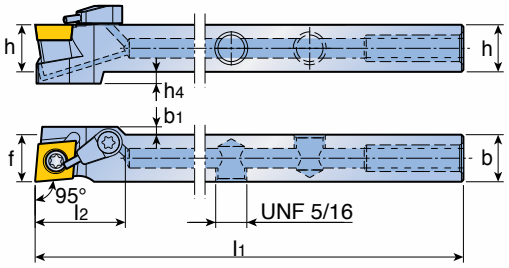


Fig.1

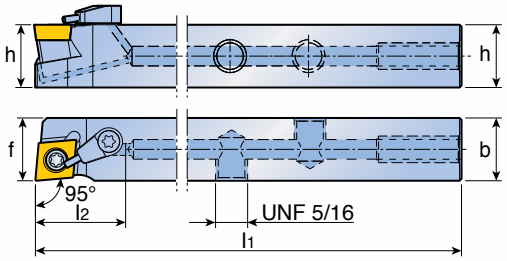
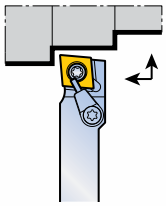


Fig.2

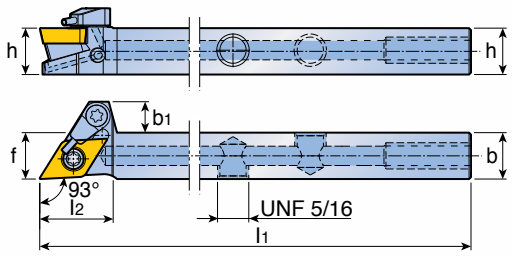
Approach angle	Designation	Dimension (mm)							Fig.	Insert
		h	b	l_1	l_2	f	b_1	h_4		
95°	**SCLCR/L 1212 K09-SH-TB**	12	12	125	23	12	2	3	1	CC...T 09T3...
	**1616 K09-SH-TB**	16	16	125	23	16	-	-	2	

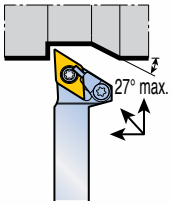
Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SCLCR/L...TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	SS M3x0.5x3-NL	T 15	L-W 5/32

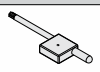
SDJCR/L-SH-TB

T-BURST holder



Approach angle	Designation	Dimension (mm)						Insert
		h	b	l_1	l_2	f	b_1	
93°	**SDJCR/L 1212 K11-SH-TB**	12	12	125	19	12	8	DC...T 11T3...
	**1616 K11-SH-TB**	16	16	125	19	16	4	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Plug3	Wrench1	Wrench2
							
SDJCR/L...TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	SS M4x0.7x4-NL	SS M3x0.5x3-NL	T 15	L-W 5/32

SDNCN-SH-TB

T-BURST holder

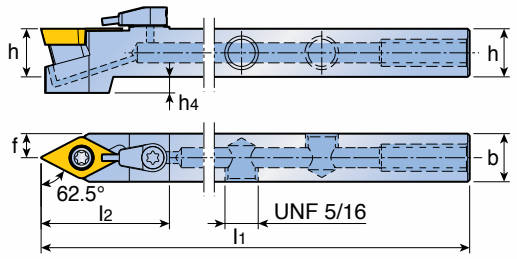


Fig.1

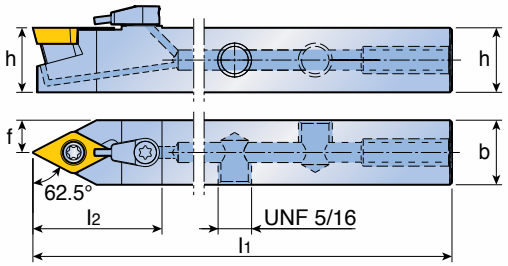
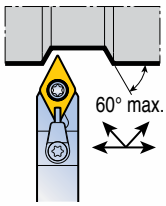


Fig.2

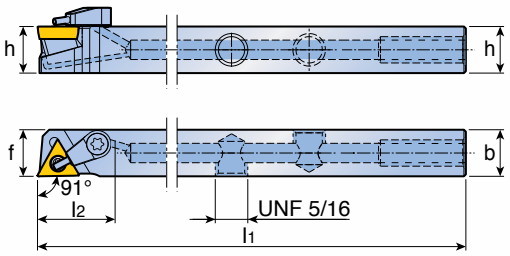
Approach angle	Designation	Dimension (mm)						Fig.	Insert
		h	b	l_1	l_2	f	h_4		
62.5°	**SDNCN 1212 K11-SH-TB**	12	12	125	32	6	4	1	DC...T 11T3...
	**1616 K11-SH-TB**	16	16	125	32	8	-	2	

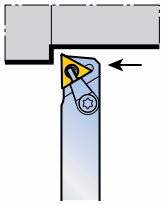
Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SDNCN...TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	SS M2.5x0.45x2.5 SH-TB	T 15	L-W 5/32

STGCR/L-SH-TB

T-BURST holder



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l_1	l_2	f	
91°	STGCR/L 1212 K11-SH-TB	12	12	125	20	12	TC...T 1103...
	1616 K11-SH-TB	16	16	125	20	16	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
STGCR/L...TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	SS M3x0.5x3-NL	T 7	L-W 5/32

SVJBR/L-SH-TB

T-BURST holder

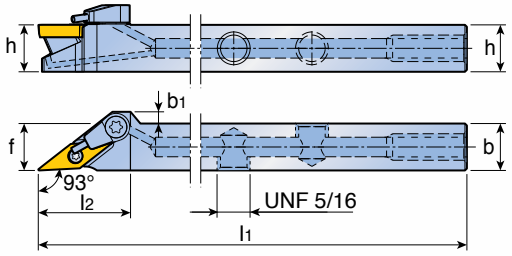


Fig.1

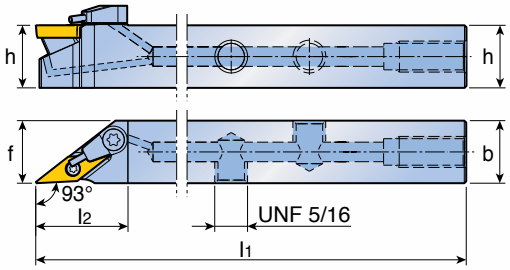
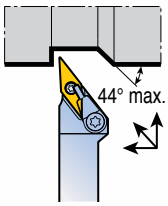


Fig.2

Approach angle	Designation	Dimension (mm)						Fig.	Insert
		h	b	l1	l2	f	b1		
93°	**SVJBR/L 1212 K11-SH-TB**	12	12	125	23.6	12	3	1	VB...T 1103...
	**1616 K11-SH-TB**	16	16	125	23.6	16	-	2	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SVJBR/L...TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	SS M3X0.5X3-NL	T 7	L-W 5/32

SVJCR/L-SH-TB

T-BURST holder

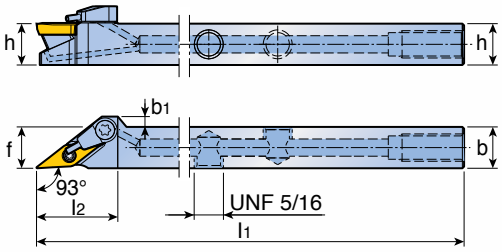


Fig.1

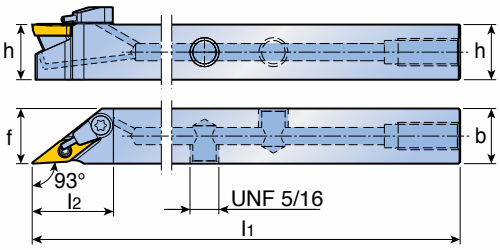
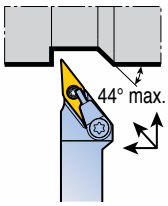


Fig.2

Approach angle	Designation		Dimension (mm)						Fig.	Insert
			h	b	l1	l2	f	b1		
93°	SVJCR/L	1212 K11-SH-TB	12	12	125	23.6	12	3	1	VC...T 1103...
		1616 K11-SH-TB	16	16	125	23.6	16	-	2	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SVJCR/L...TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	SS M3X0.5X3-NL	T 7	L-W 5/32

SVVBN-SH-TB

T-BURST holder

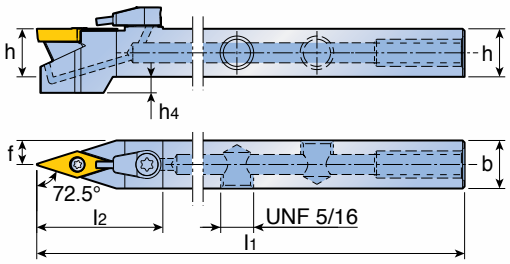


Fig.1

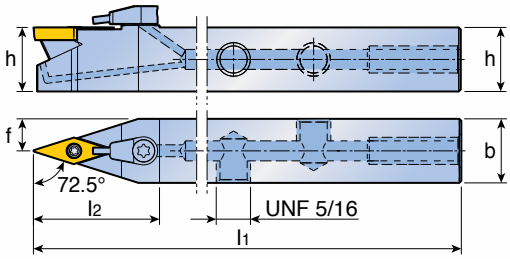
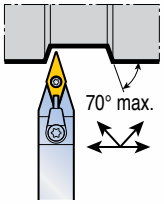


Fig.2

Approach angle	Designation		Dimension (mm)						Fig.	Insert
			h	b	l_1	l_2	f	h_4		
72.5°	**SVVBN**	**1212 K11-SH-TB**	12	12	125	31.5	6	4	1	VB...T 1103...
		**1616 K11-SH-TB**	16	16	125	31.5	8	-	2	

Spare parts

Designation	Screw	Oil-supply unit	Plug1	Plug2	Wrench1	Wrench2
						
SVVBN...TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	SS M2.5X0.45X2.5 SH-TB	T 7	L-W 5/32

Components

Hose

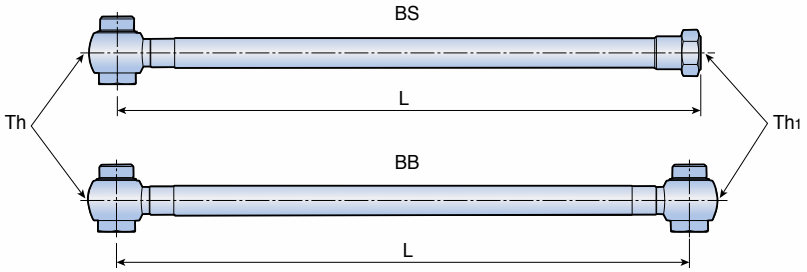


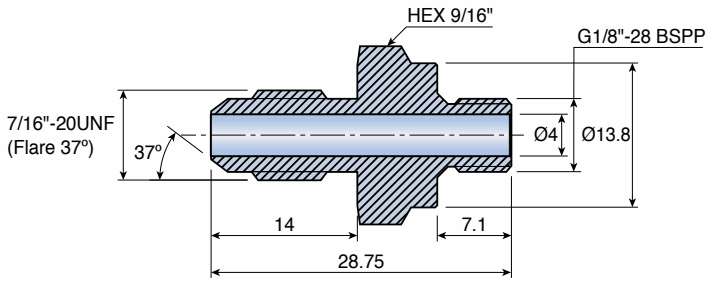
Fig. 1

Fig. 2

	Designation	Dimension				Fig.
		L(mm)	Th	Th1	Max.pressure(Bar)	
TB HOSE	**G1/8-7/16-200BS**	200	G1/8"-28 BSPP	7/16"-20 UNF (Flare 37°)	260	1
	G1/8-7/16-250BS	250	G1/8"-28 BSPP	7/16"-20 UNF (Flare 37°)	260	1
	G1/8-G1/8-200BB	200	G1/8"-28 BSPP	G1/8"-28 BSPP	260	2
	G1/8-G1/8-250BB	250	G1/8"-28 BSPP	G1/8"-28 BSPP	260	2
	5/16-7/16-200BS	200	5/16"-24 UNF	7/16"-20 UNF (Flare 37°)	200	1
	5/16-G1/8-200BS	200	5/16"-24 UNF	G1/8"-28 BSPP	200	1

• Hose is ordered separately

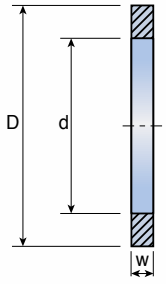
Adapter



Designation
TB NIPPLE G1/8-7/16 UNF

• Adapter is ordered separately

Seal washer

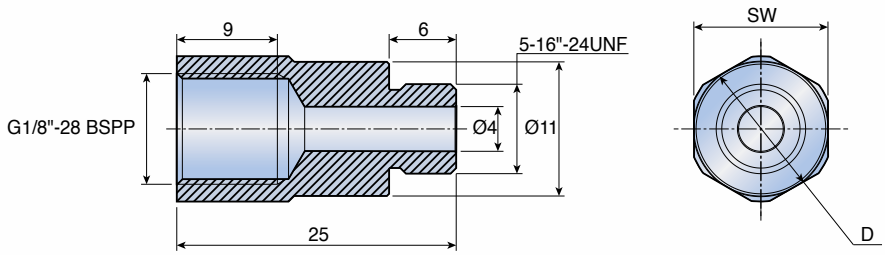


	Designation	Dimension (mm)		
		D	d	w
TB COPPER	**SEAL 1/8"**	15	10	1
	SEAL 5/16"	12	8	1

• Seal washer is ordered separately

Components

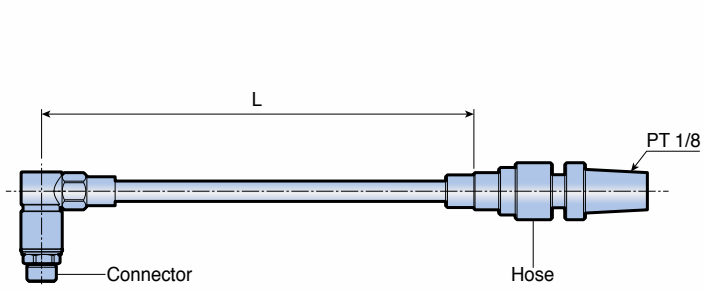
Connector



Designation		Dimension (mm)	
		D	SW
TB CONECTOR	**5/16"-G1/8"**	13	12
	5/16"-G1/8"-12	12	11

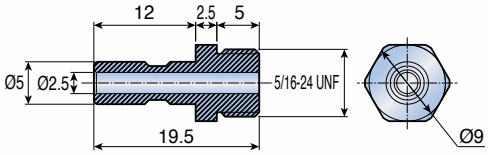
• Connector is ordered separately

Coupling system



Hose set

Hose



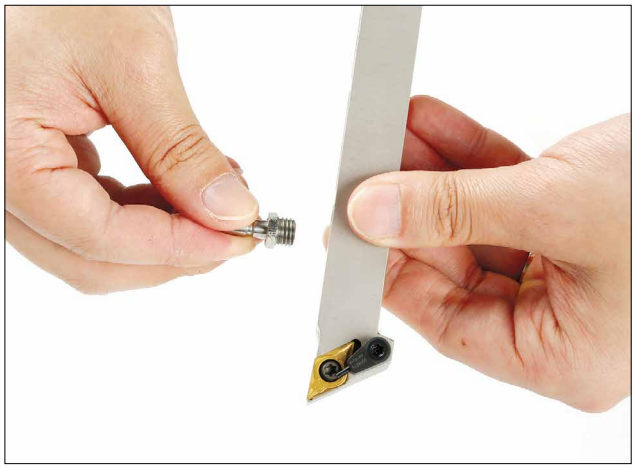
Connector

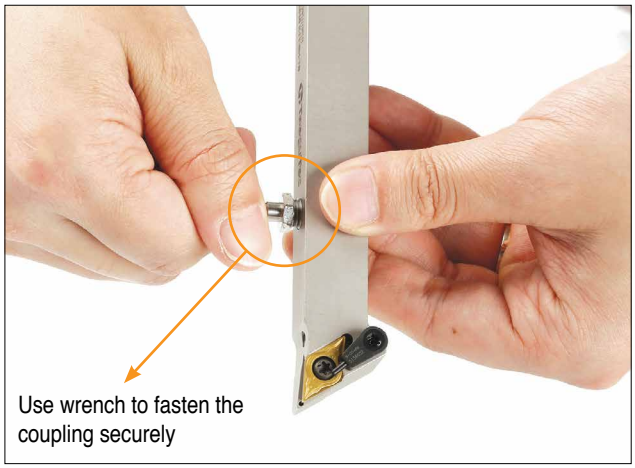
Components	Designation		Dimension	
			L (mm)	Maximum Pressure (Bar)
Hose set	**S-TB HOSE**	**R1/8-COUPLE-200**	200	140
		R1/8-COUPLE-300	300	140
Hose	**TB HOSE**	**R1/8-COUPLE-200**	200	140
		R1/8-COUPLE-300	300	140
Connector	**TB CONNECTOR**	**5/16-COUPLE**	-	-

• Hose set, hose and connector are ordered separately

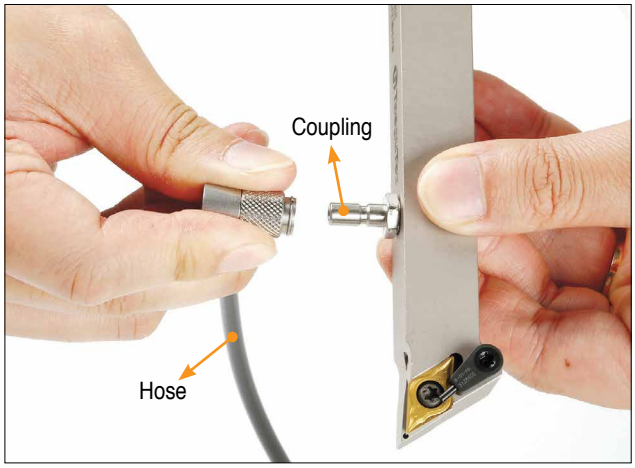
How to connect coupling system

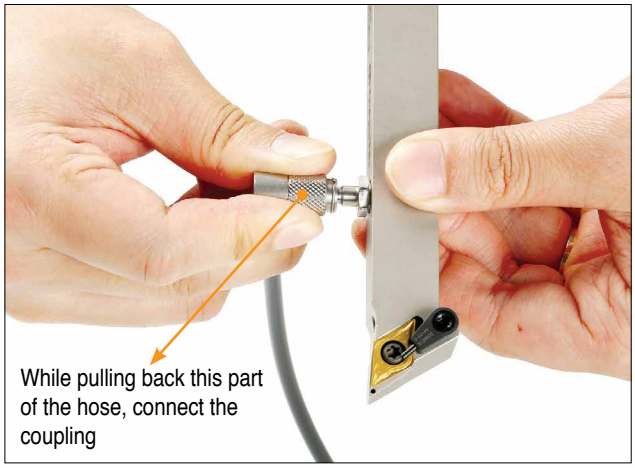
1. Coupling connection



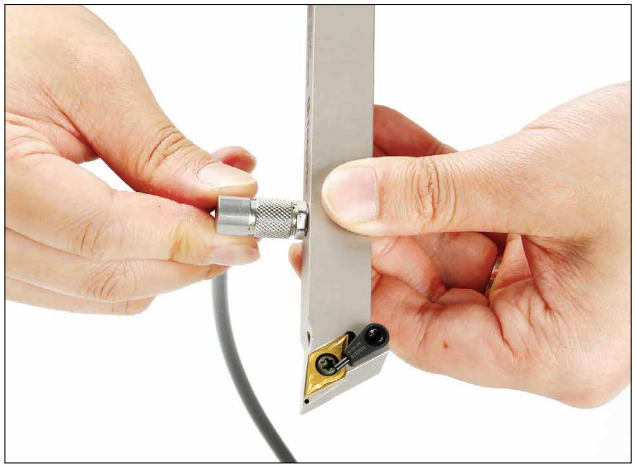


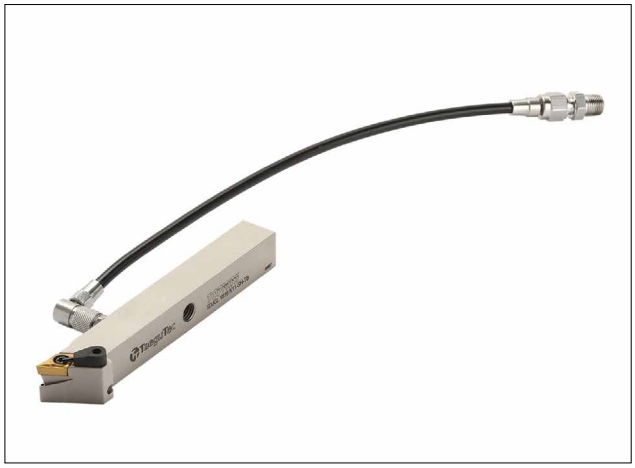
2. Connection between hose and coupling





3. Connection completed





* To disconnect from the holder, proceed in the reverse order as shown above.