

**Global Support, Global Solutions.** 

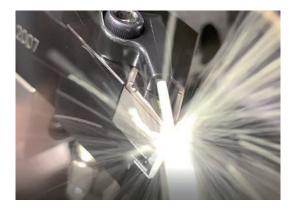
**SEC-External Tool Holder Series** 

# **Internal Coolant Holders**

KOB-OH SCOT

### Through-clamp coolant supply improves chip evacuation and tool life

SUMITOMO ELECTRIC GROUP



#### Features

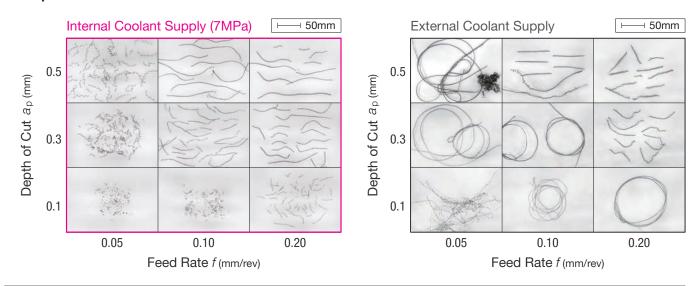
- Through-clamp internal coolant supply holder improves chip evacuation and tool life
- Enables directed coolant supply from a close range, towards the cutting edge
- Suppresses flank wear with additional coolant supply to the flank face
- Realises high rigidity and indexing accuracy with double clamping

0.3 Flank Wear Width (mm) Internal External Coolant Supply Coolant Supply 0.2 7MPa 4 times longe 0.1 tool life 5 10 0 15 Cutting Time (min)



Double Clamp

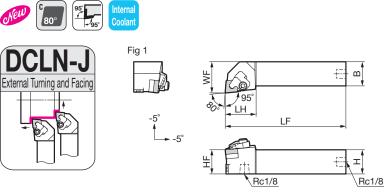




#### Chip Control

Wear Resistance

Work Material: SCM415 Holder: DDJN R2525K15-J Insert: DNMG150408N-FE Cutting Conditions:  $v_c$  = 300m/min Wet

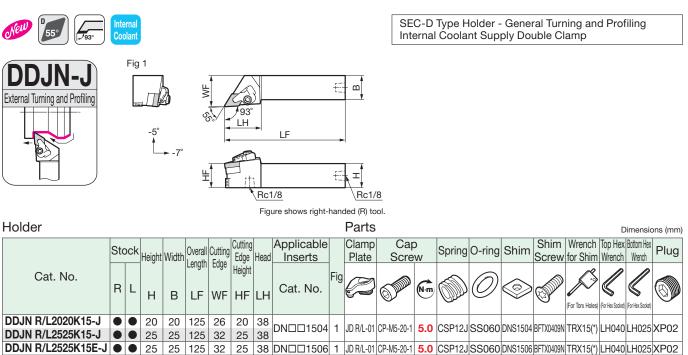


SEC-D Type Holder - General Turning, Facing and Profiling Internal Coolant Supply Double Clamp

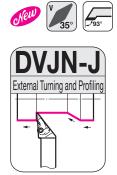
Figure	shows	right-handed	(R)	tool

Holder											Parts								D	imensio	ons (mm)
	Stock <sub>H</sub>		Height	Width	Overall	Cutting	Cutting Edge	Head	Applicable ad Inserts		Clamp Plate	Cap Scre	) W	Spring	O-ring	Shim	Shim Screw	Wrench for Shim	Top Hex Wrench	Bottom Hex Wrench	Plug
Cat. No.	R	L	н	в	g		Height HF	LH	Cat No	Fig	Ø	O Maria	N·m	6	0	٢	- California	(For Torx Holes)	C	Ø	
DCLN R/L2020K12-J			20	20	125	27	20	32		4			E 0	000101	00000	CNICTODA			11040	111005	VDOO
DCLN R/L2525K12-J			25	25	125	32	25	32	CN□□1204		JU R/L-UI	GP-IVID-20-1	5.0	COPIZJ	55060	GN51204	DF1X0409N	16719()	LHU4U	LHUZO	APU2

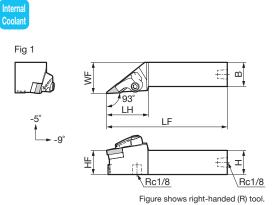
\* Wrench for shim is sold separately from the main body.



\* Wrench for shim is sold separately from the main body.



Holder



#### SEC-D Type Holder - General Turning and Profiling Internal Coolant Supply Double Clamp

									Parts							D	imensio	ons (mm)	ł
	Stock	ght Width	Overall	Cutting	Cutting Edge	Head	Applicable Inserts		Clamp Plate	Cap Scre	Spring	O-ring	Shim	Shim Screw	Wrench for Shim			Plug	
No			Length	Edge	Height			Fig		-					R		1	_	

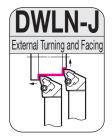
Cat. No.	R	L	н	В	LF	WF	Height HF	LH	Cat. No.	Fig	Ø	O TAM	N·m	Ŵ	0	Þ	T	(For Torx Holes)	(For Hex Socket)	(For Hex Socket)	6
DVJN R/L2020K16-J			20	20	125	27	20	43		-			5.0	000101	<u></u>	VNC1COA			111040	111005	
DVJN R/L2525K16-J			25	25	125	32	25	43	VN□□1604		JV H/L-UI	CP-M5-20-1	5.0	CSPIZJ	55060	1004	DF I XU3U/ IN	IRX 10()	LH040	LHUZO	APU2

\* Wrench for shim is sold separately from the main body.



Fig 1 £ ۵Ī -6° LF -6° £ Т Bc1/8 Rc1/8

SEC-D Type Holder - General Turning and Facing Internal Coolant Supply Double Clamp



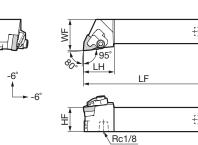


Figure shows right-handed (R) tool.

Holder											Parts								D	imensio	ons (mm)
	Stock		Height	Width	Overall	Cutting	Cutting Edge Height	Head	Applicable ad Inserts		Clamp Plate	Cap Scre	) W	Spring	O-ring	Shim	Shim Screw	Wrench for Shim	Top Hex Wrench	Bottom Hex Wrench	Plug
Cat. No.	R	L	н	в				LH	Cat. No.	Fig	Ø	O TAM			0	Ø	- California	(For Torx Holes)	C	C	
DWLN R/L2020K08-J			20	20	125	26	20	32		4			E 0	000101	00000	WNCOOO			111040	111005	VDOO
DWLN R/L2525K08-J			25	25	125	32	25	32	WN□□0804		JU R/L-UI	GP-1010-20-1	5.0	COPIZJ	55060	1001020604		18719()	LHU4U	LHUZO	XPU2

\* Wrench for shim is sold separately from the main body.

Refer to the chapter on "Indexable Inserts" in the General Catalogue for applicable inserts.

• mark: Standard stocked item (N·m) Recommended Tightening Torque (N·m)

#### Parts for Internal Coolant Holder Piping

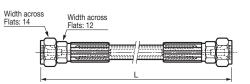
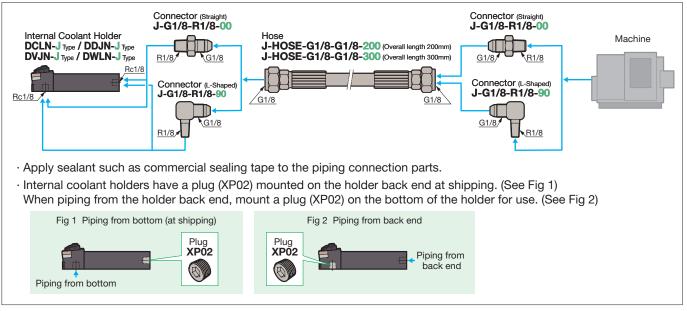


Fig 1	Fig 2	00
14 R1/8 G1/8 29		

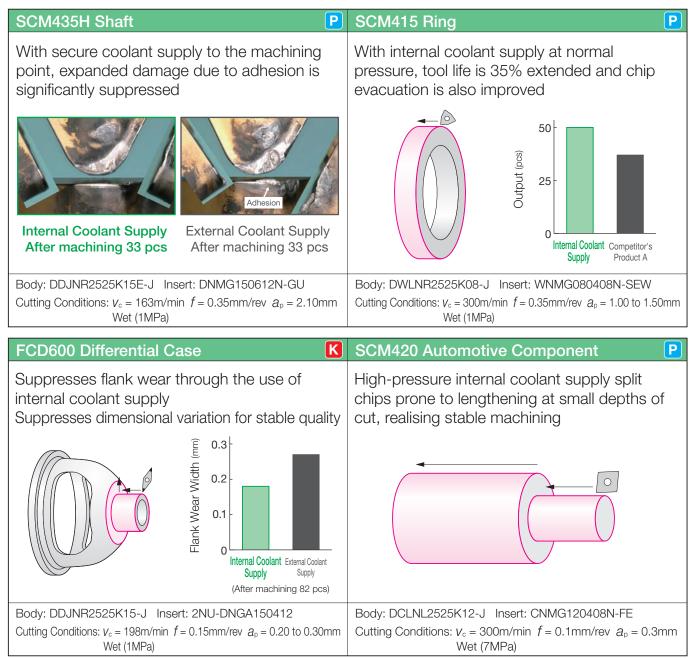
Parts (Hose)				Dimensions	(mm)	Parts (Connector)			Dimensior	ıs (mm)
Cat. No.	Stock	L	Screw Standard	Screw Standard	Fig	Cat. No.	Stock	Screw Standard	Screw Standa	rd Fig
J-HOSE-G1/8-G1/8-200		200	G1/8	G1/8	1	J-G1/8-R1/8-00		G1/8	R1/8	1
J-HOSE-G1/8-G1/8-300		300	G1/8	G1/8	1	J-G1/8-R1/8-90		G1/8	R1/8	2
Hoses are sold separately.			-			Connectors are sold separately				

Fig 1

#### Piping Method for Hoses and Connectors



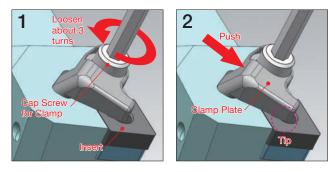
#### Application Examples



#### Precautions for SEC-External Holders / Internal Coolant Holders

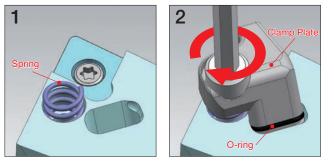
#### ■ Insert Mounting and Removing Precautions

- · Use a wrench to loosen the cap screw for clamp by about three turns, and then remove the insert. (Fig 1 below)
- · If the clamp plate tip catches on the insert when removing, push the clamp plate in the arrow direction as in Fig 2 below.



#### ■ Precautions for Removing and Assembling O-Rings and Clamps

- · O-rings are consumable parts. If worn or damage, replace with a new O-ring as stipulated.
- When replacing, remove the cap screw and then remove the clamp from the body. (Be careful not to lose the spring).
  Remove the old O-ring from the clamp plate, clean the clamp plate groove, and then set the new O-ring so that it fits entirely into the groove.
- When setting the clamp plate, as in Fig 1 below, place the spring and then set and tighten the clamp plate and cap screw to mount the clamp plate on the body. (Fig 2 below) Be careful at this point that the O-ring does not protrude.
- · When mounting the clamp plate, do not tighten the cap screw forcefully all the way to the bottom without setting the insert.



Sumitomo Electric Cutting Tools Official Apps for iOS/Android



### Sumitomo Electric Industries, Ltd.

Hardmetal Division

Global Marketing Department : 1-1-1, Koyakita, Itami, Hyogo 664-0016, Japan

https://www.sumitool.com/global