

Exchangeable head turning tool system for Swiss machines

MODUMTURN

Tungaloy Report No. 541S2-G

Expanded lineups of parting and profiling heads, as well as shank options for extensive application coverage



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Exchangeable head turning tool system for Swiss machines

Expansion of high-pressure through-coolant head series

Introducing new heads for parting, profiling and back turning applications with high-pressure through-coolant supply

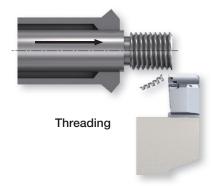


New stepped-head shanks

Allows finishing operation to be performed after roughing operation without returning the workpiece back into the guide bushing where no support is provided for the workpiece.



Prevents chips from entering the guide bushing during thread machining.

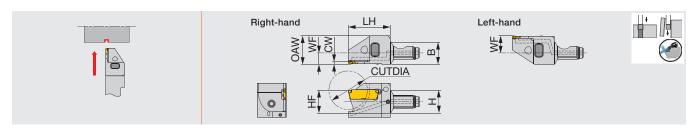


MODULAR HEADS

QC12-JTTER/L-CHP



Modular head for external grooving and parting, with high pressure coolant capability



Designation	CW	Seat size	CUTDIA	Н	В	LH	HF	WF (1)	OAW	Torque*
QC12-JTTER/L1.2D20-CHP	1.2	0.9	20	12	12	22	12	6/9	15	1.5
QC12-JTTER/L1.4D20-CHP	1.4	1	20	12	12	22	12	6/9	15	1.5
QC12-JTTER/L2D20-CHP	2	2	20	12	12	22	12	6/9	15	1.5

^{(1) &}quot;WF" value is calculated with groove width "CW" shown in the table. The first value before "/" indicates the WF for the right-hand holder and the second value after "/" for the left-hand holder. Torque*: Recommended clamping torque (N·m)

Insert

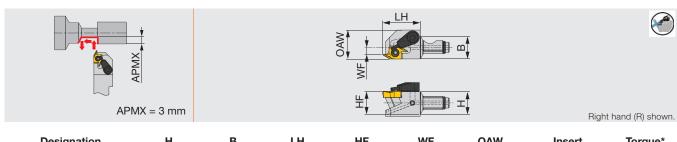


SPARE PARTS				
Designation	Clamping screw	Clamping pin	Wrench	O-ring
QC12-JTTER/L	SSM3.5x0.35	PIN-SL-TC	P-2F	ORSS-0454.5X1.0NBR70

QC12-JSEGR-CHP



Screw-on modular head for back turning, with high pressure coolant capability



Designation	Н	В	LH	HF	WF	OAW	Insert	Torque*
QC12-JSEGR10-CHP	12	12	19.5	12	3.5	15	J10ER	1.2

Torque*: Recommended clamping torque (N·m)

Insert



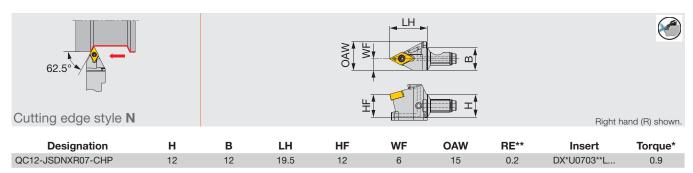
SPARE PARTS				
Designation	Clamping screw	Coolant unit	Wrench	O-ring
QC12-JSEGR10-CHP	CSTB-2.5	S-CU-CHP	T-8F	ORSS-0454.5X1.0NBR70

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QC12-JSDNXR-CHP



Screw-on modular head with 62.5° approach angle, for DX*U inserts, with high pressure coolant capability



Use right-hand toolholders (R) with left-hand inserts (L). Torque*: Recommended clamping torque (N·m) RE**: Standard corner radius

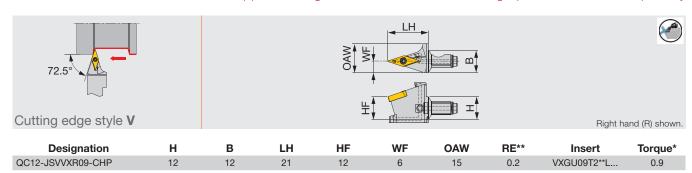
Insert

;	SPARE PARTS			
	Designation	Clamping screw	Wrench	O-ring
	QC12-JSDNXR07-CHP	SR34-514	T-7F	ORSS-0454.5X1.0NBR70

QC12-JSVVXR-CHP



Screw-on modular head with 72.5° approach angle, for VXGU inserts, with high pressure coolant capability



Use right-hand toolholders (R) with left-hand inserts (L). Torque*: Recommended clamping torque (N·m) RE**: Standard corner radius

Insert

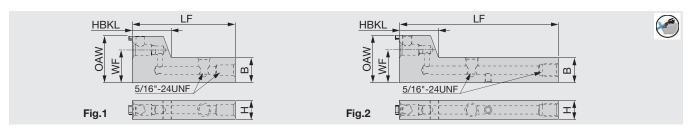


SPARE PARTS			
Designation	Clamping screw	Wrench	O-ring
QC12-JSVVXR09-CHP	SR34-508	T-7F	ORSS-0454.5X1.0NBR70

SHANK

QC-1216-F15-CHP

Stepped-head shank for modular heads, with high pressure coolant capability



Designation	Н	В	LF	WF	HBKL	OAW	Torque*	Fig.
QC-1216F-F15-CHP	12	16	65	21	25	30	3	1
QC-1216X-F15-CHP (1)	12	16	100	21	25	30	3	2

 $^{(1) \} Compatible \ to \ the \ direct \ internal \ coolant \ supply \ system \ without \ the \ use \ of \ external \ coolant \ hose.$

QC12 heads only can be mounted on these shanks. Torque*: Recommended clamping torque (N·m)

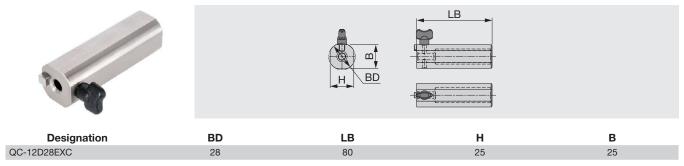
SPARE PARTS						
Designation	Clamping screw	Wrench	Coolant plug	Wrench	DirectJet plug	Wrench
QC-1216F-F15-CHP	SRM6X0.5-26977	P-3	SR5/16UNFTL360	P-4	-	-
QC-1216X-F15-CHP	SRM6X0.5-26977	P-3	SR5/16UNFTL360	P-4	SSHM4-6-TB	P-2

MOĐUMŤURN

ACCESSORY

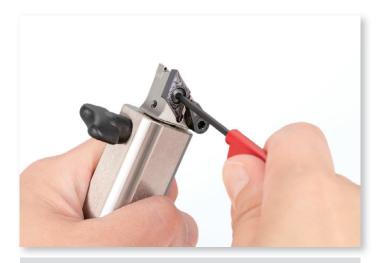
QC-12D28EXC

Modular head holder for insert change



Note: This is a dedicated modular-head holder designed to facilitate insert changes. Do not use this holder for machining as it may cause damages to tool, workpiece, machine, and possible human injury.





ModuMini-Turn modular heads are small. When it is difficult to change inserts while holding the modular head with fingers, use the dedicated holder to facilitate insert changes.

PRACTICAL EXAMPLES

	Workpiece type	Ball screw shaft	Part for camera		
	Shank	QC-1216X-F15-CHP	QC-1212X-CHP		
	Head	QC12-STCR18-CHP	QC12-JTTEL1.2D20-CHP		
	Insert TCT18FR-60A-005 DGS1.2-003				
	Grade	SH725	AH725		
	Workpiece material	S55C / C55	SUS303 / X10CrNiS18-9		
	workpiece material		95 mm		
ns Is	Cutting speed : Vc (m/min)	60	45		
Cutting conditions	Feed : f (mm/rev)	1 (pitch)	0.03		
Sct	Machining	Threading (M12 x 1)	Parting-off (CW = 1.2 mm)		
- 8	Coolant	Wet	Wet		
	Results	Fewer scraps!	Thanks to ModuMini-Turn quick change system, insert change time was reduced by 82%.		
		Conventional MODUMTURN The use of stepped-head shank prevented chips from entering the inside of the guide bushing, eliminating the generation of part scraps.			

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