



Synchronized Tap Holder Designed to Maximize Performance

Vol 5

SynchroMaster

Tap Holder



NEW HOLDERS

- ER8

NEW COLLETS

- ER8 (0.141")
- ER16 (0.141")



For more information
scan the QR code to visit:
osgtool.com/synchromaster



Features & Benefits

Long Tool Life Without Maintenance

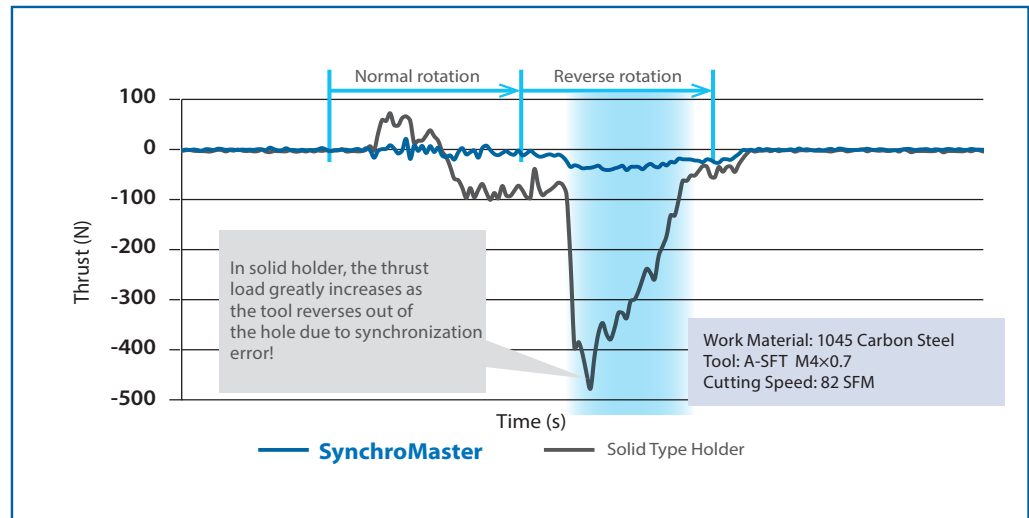
The **Single Unit Construction** and **Metal Flexure Mechanism** enables long holder tool life without maintenance. The SynchroMaster is ideal for:

- Synchronous tapping
- Preventing breakage and/or unstable tool life
- Large volume production

A-Tap + SynchroMaster = Best Solution

Combined for Maximum Potential

SynchroMaster reduces axial and radial forces to enable the A-Tap series to reach their maximum potential.



Machine	Holder	Tap (example)	Recommendation
Machine with synchronous feed mechanism	SynchroMaster	A-TAP (A-SFT,A-POT,S-XPF)	◎
		General Purpose Tap	○
		Synchro Tap	—*

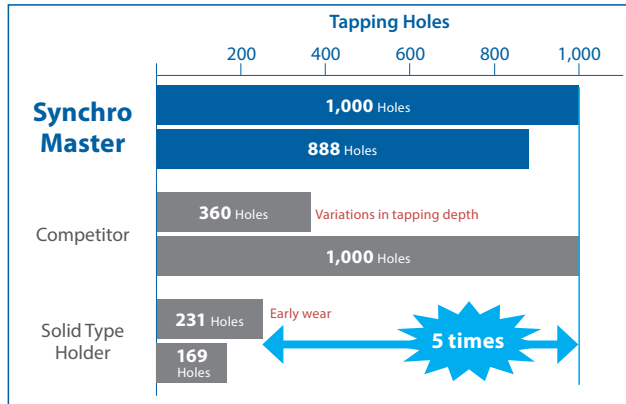
*Synchro Tap is recommended to be used in combination with a solid holder and machine with synchronous feed mechanism

○ good ◎ best

Long Tool Life

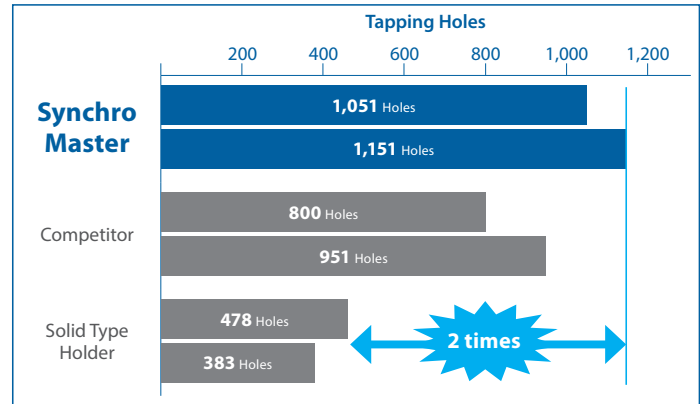
Stable Performance and Improved Durability

Stable performance even with difficult short chamfer



Work Material: 1045 Carbon Steel
 Tool: A-SFT M4x0.7 1P
 Cutting Speed: 33 SFM

Durability of forming taps can also be improved

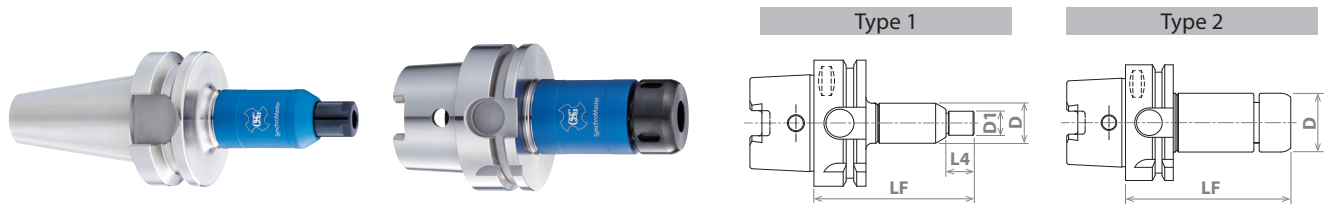


Work Material: 4140 Alloy Steel (30HRC)
 Tool: S-XPf M10x1.5 2P
 Cutting Speed: 50 SFM



List 9950

SynchroMaster Tap Holders

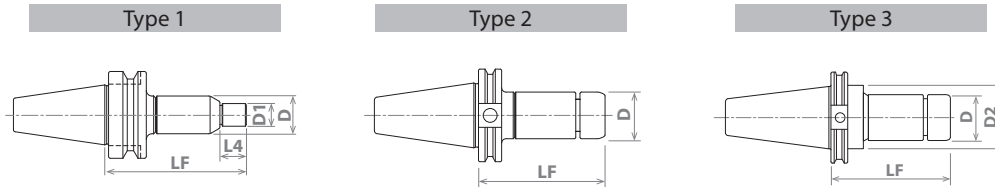


HSK Holders

EDP Number	Description	Type	D	D1	LF	L4	Collet Type
76903	HSK63A-SMH8-80	1	20	12	80	14	ER8GHC
79912	HSK40A-SMH16-85	2	32	-	85	-	ER16GH ER16GHC
79913	HSK63A-SMH16-90	2	32	-	90	-	ER16GH ER16GHC
79969	HSK63A-SMH32-108	2	50	-	108	-	ER32GH

Packed: 1 pc.

1. The collet and spanner are sold separately.
 2. Please use a machine with synchronous feed capability.
- * The HSK40A is without manual clamping hole.



CAT Holders

EDP Number	Description	Type	D	D1	LF	L4	Collet Type
99500003	CAT40-SMH8-80	1	20	12	80	14	ER8GHC
79926	CAT40-SMH16-90	2	32	-	90	-	ER16GH ER16GHC
99500001	CAT40-SMH32-120	2	50	-	120	-	ER32GH
99500002	CAT50-SMH32-120	3	50	69.9	120	-	ER32GH

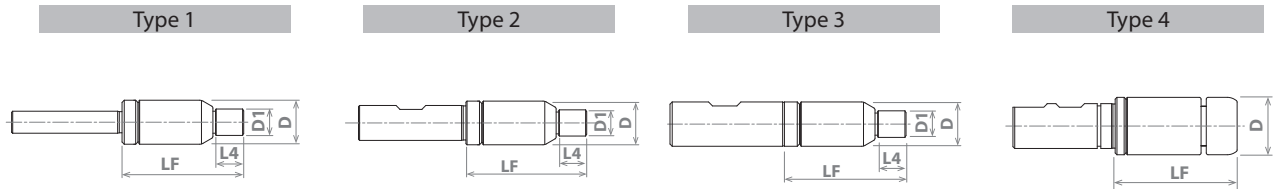
Packed: 1 pc.

1. The collet and spanner are sold separately.
2. Please use a machine with synchronous feed capability.



List 9950 (Continued)

SynchroMaster Tap Holders

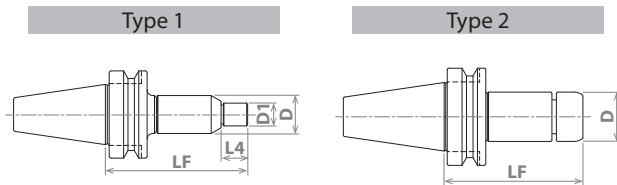


Straight Shank Holders

EDP Number	Discription	Type	D	D1	LF	L4	Collet Type
99500004	ST10-SMH8-55	1	20	12	55	14	ER8GHC
99500005	ST16D-SMH8-55	2	20	12	55	14	ER8GHC
76904	ST20D-SMH8-55	3	20	12	55	14	ER8GHC
79924	ST20D-SMH16-68	4	32	-	68	-	ER16GH ER16GHC
79925	ST25D-SMH16-68	4	32	-	68	-	ER16GH ER16GHC

Packed: 1 pc.

1. The collet and spanner are sold separately.
2. Please use a machine with synchronous feed capability.



BT Holders

EDP Number	Discription	Type	D	D1	LF	L4	Collet Type
76900	BT30-SMH8-75	1	20	12	75	14	ER8GHC
76901	BT40-SMH8-80	1	20	12	80	14	ER8GHC
79910	BT30-SMH16-90	2	32	-	90	-	ER16GH ER16GHC
79911	BT40-SMH16-90	2	32	-	90	-	ER16GH ER16GHC
79967	BT40-SMH32-120	2	50	-	120	-	ER32GH

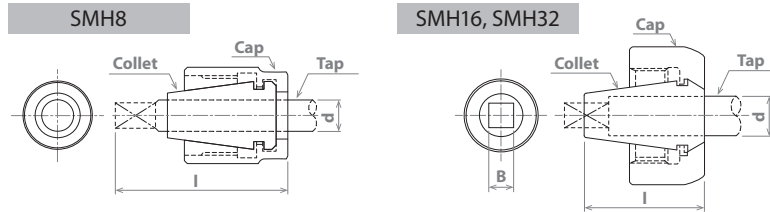
Packed: 1 pc.

1. The collet and spanner are sold separately.
2. Please use a machine with synchronous feed capability.



List 9953

SynchroMaster Collet



For ANSI Shank

Coolant	EDP Number	Description	d	B	l	Tap Size		Holder Type	Standard Tightening Torque
Collet Through or Flow Coolant	99530014	ER8GHC-3.6	0.141"	-	23mm	~ M3	~ No.6	SMH8	5-7Nm
	99530015	ER16GHC-0.141	0.141"	0.110"	13.8mm	~ M3	~ No.6	SMH16	30-35Nm
	99530011	ER16GHC-0.168	0.168"	0.131"	15mm	M4	No.8	SMH16	30-35Nm
	99530012	ER16GHC-0.194	0.194"	0.152"	18mm	M5	No.10	SMH16	30-35Nm
	99530013	ER16GHC-0.220	0.220"	0.165"	18mm	-	No.12	SMH16	30-35Nm
Center Through or Flow Coolant	79960	ER16GH-0.255	0.255"	0.191"	15mm	M6	1/4	SMH16	30-35Nm
	79961	ER16GH-0.318	0.318"	0.238"	18mm	M8	5/16	SMH16	30-35Nm
	99530001	ER32GH-0.255	0.255"	0.191"	22mm	M6	1/4	SMH32	100-105Nm
	99530002	ER32GH-0.318	0.318"	0.238"	22mm	M8	5/16	SMH32	100-105Nm
	99530003	ER32GH-0.381	0.381"	0.286"	25mm	M10	3/8	SMH32	100-105Nm
	99530004	ER32GH-0.323	0.323"	0.242"	22mm	-	7/16	SMH32	100-105Nm
	99530005	ER32GH-0.367	0.367"	0.275"	22mm	M12	1/2	SMH32	100-105Nm
	99530006	ER32GH-0.429	0.429"	0.322"	25mm	M14	9/16	SMH32	100-105Nm
	99530007	ER32GH-0.480	0.480"	0.360"	25mm	M16	5/8	SMH32	100-105Nm
	99530008	ER32GH-0.542	0.542"	0.406"	25mm	M18	-	SMH32	100-105Nm
	99530009	ER32GH-0.590	0.590"	0.442"	25mm	-	3/4	SMH32	100-105Nm
99530010	ER32GH-0.652	0.652"	0.489"	25mm	M20	-	SMH32	100-105Nm	

Packed: 1 pc.

1. For center-through coolant system, please insert tool all the way to the back of the collet. Coolant leakage may occur if the tool insertion length is too short. 2. Select the appropriate collet after confirming the dimensions of the tap to be used. 3. Confirm the tightening torque with a torque spanner or similar tool.



For JIS Shank

Coolant	EDP Number	Description	d	B	l	Tap Size		Holder Type	Standard Tightening Torque
Center Through or Flow Coolant	79917	ER16GH-6-4.5	6mm	4.5mm	18mm	M6	-	SMH16	30-35Nm
	79918	ER16GH-6.2-5	6.2mm	5mm	18mm	M8	-	SMH16	30-35Nm
	79919	ER16GH-7-5.5	7mm	5.5mm	18mm	M10	-	SMH16	45-50Nm
	79920	ER16GH-8-6	8mm	6mm	22mm	"PT1/16, PT1/8"	-	SMH16	45-50Nm
	79921	ER16GH-8.5-6.5	8.5mm	5.5mm	22mm	M12	-	SMH16	45-50Nm

Packed: 1 pc.



1. For center-through coolant system, please insert tool all the way to the back of the collet. Coolant leakage may occur if the tool insertion length is too short. 2. Select the appropriate collet after confirming the dimensions of the tap to be used. 3. Confirm the tightening torque with a torque spanner or similar tool.



NEW
SIZES

List 9955

SynchroMaster Accessories

Appearance	EDP Number	Discription	Holder type
 Spanner Wrench	76910	S-8E	SMH8
 Spanner Wrench	79923	FKT-32L	SMH16
	79993	FKT-50L	SMH32

Packed: 1 pc.



Appearance	EDP Number	Discription	Holder type
 Nut	76909	ERP-8T	SMH8
 Nut	79922	ERP-16T	SMH16
	79992	ERP-32T	SMH32

Packed: 1 pc.





shaping your dreams

 **Safe use of cutting tools**

- Use safety cover, safety glasses and safety shoes during operation.
- Do not touch cutting edges with bare hands.
- Do not touch cutting chips with bare hands. Chips will be hot after cutting.
- Stop cutting when the tool becomes dull.
- Stop cutting operation immediately if you hear any abnormal cutting sounds.
- Do not modify tools.
- Please use appropriate tools for the operation. Check dimensions to ensure proper selection.

FOR MORE INFORMATION CONTACT US

800-837-2223 • osgtool.com

