

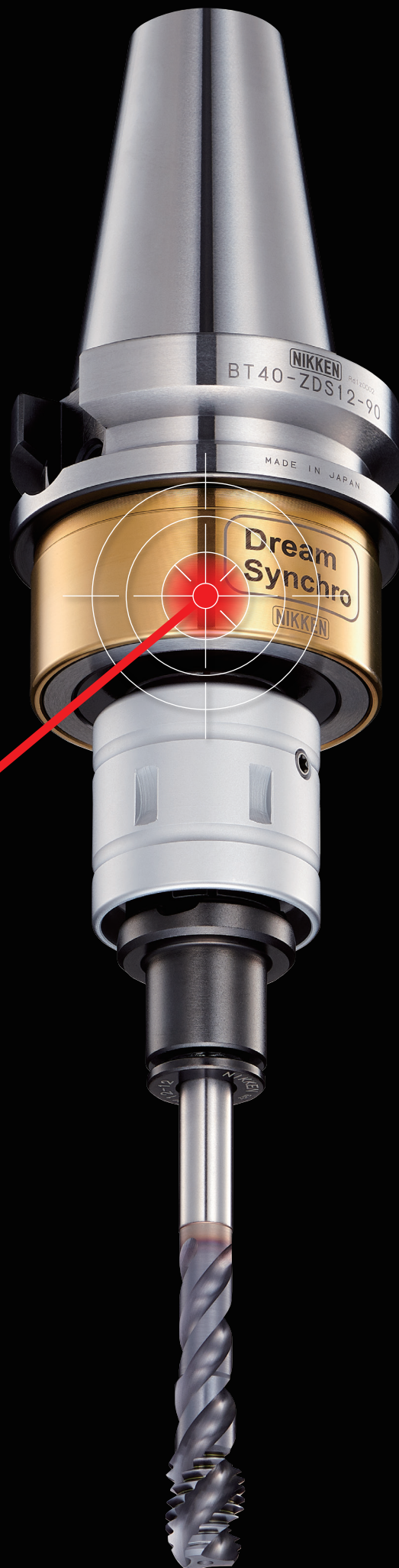
NIKKEN

New
DREAM
SYNCHRO
TAP HOLDER

Synchronized Tapping Holder with fine floating

PAT.P

New mechanism "DREAM SYNCHRO"
Reducing the thrust load!!
Improving tap life and screw quality



DREAM SYNCHRO TAP HOLDER

New mechanism 「DREAM SYNCHRO」 installed

Improving the tap life and the screw quality

“DREAM SYNCHRO” reduces the thrust load and , more over improve the tap life and the screw quality.

Mechanism withstand long-time machining

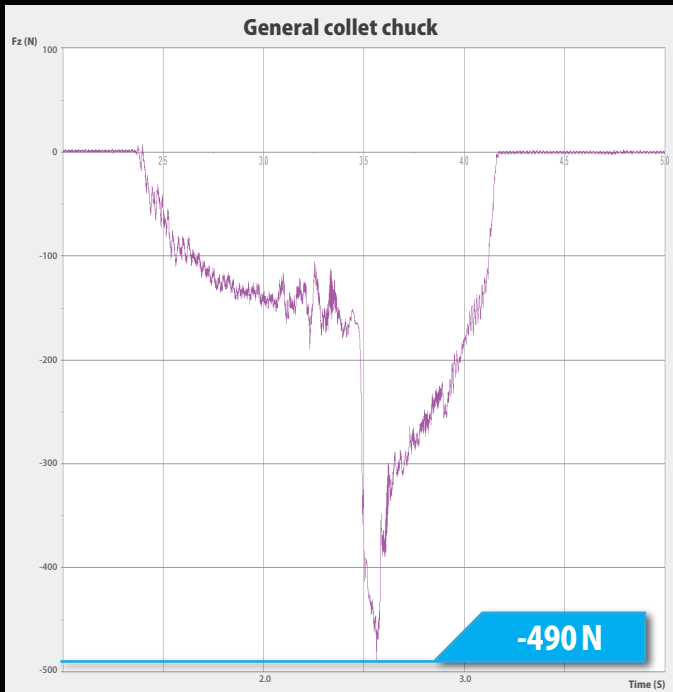
Due to long-life floating mechanism, thrust load reduction effect remains unchanged after 1.55 million operations.

from NIKKEN TECHNICAL CENTER

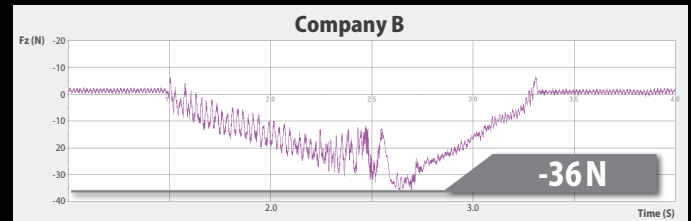
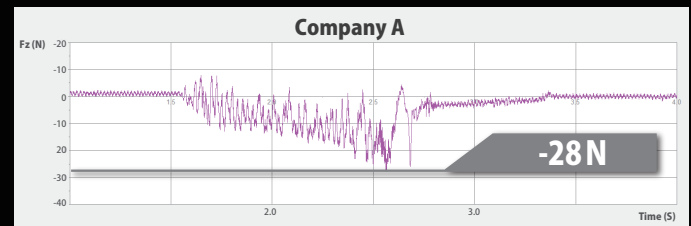
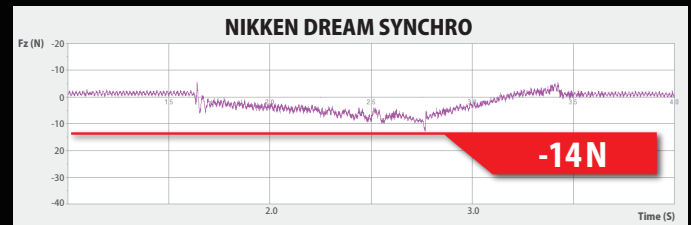
Measuring of dynamic changes in thrust load with cutting resistance measurement system



Tapping with the solid type holder (M6)

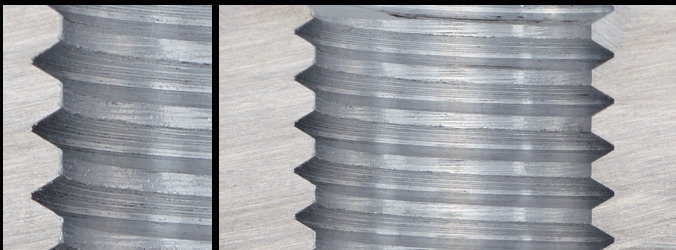


Tapping with the synchro tap holder with the fine floating (M6)

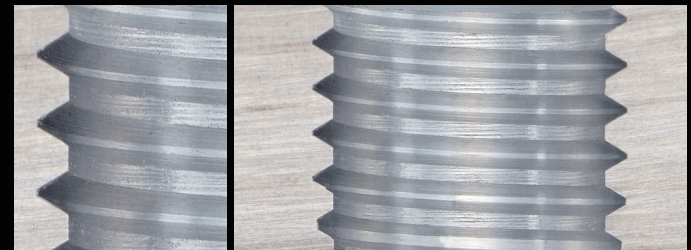


Improving the screw quality : Comparison of surface roughness

Tapping with the solid type holder (M12)



Tapping with NIKKEN DREAM SYNCHRO (M12)



Significantly improved surface roughness of thread

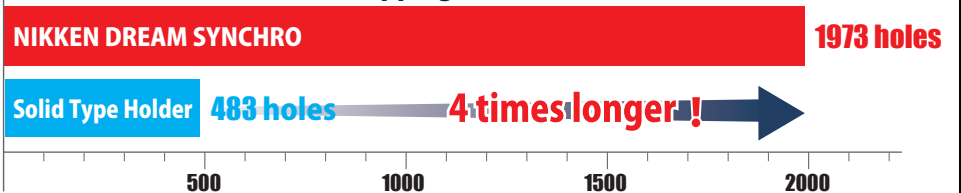
Improving the tap life : Comparison of tapping holes

Test Cutting

Tap Holder : BT40-ZDS12-90
Tap Collet : ZDK12-6

Work Material : S50C
Cutting Tool : Spiral Tap (M6)
Cutting Speed : 20m/min

Tapping Holes



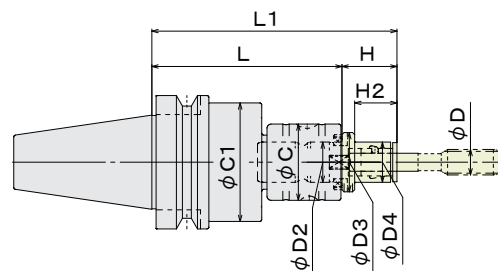
BT Synchronized Tapping Holder with fine floating NEW DREAM SYNCHRO TAP HOLDER



Tapping Capability : M2 ~ M24
High pressure center through

NEW ZDK Tap collet
for Dream Synchro Tap Holder

PAT.P



ZDS

ZDK

★ +100L is also available

TAPER	Code No.	Tapping Capability	L	C1	C	Tap Collet	H	L1	Weight (kg)
No.30	BT30-ZDS12-105	M2~M12 1/8~1/2 P1/8	105	φ 56	φ 36	ZDK12-□	26	131	1.5
						ZDK12-□-50L	76	181	1.6
	BT30-ZDS16-115	M4~M16 1/8~5/8 P1/8~P3/8	115		φ 45	ZDK16-□	28	143	1.8
						ZDK16-□-50L	78	193	2
	BT30-ZDS24-120	M12~M24 1/2~1 P3/8~P5/8	120		φ 50	ZDK24-□	38	158	2
						ZDK24-□-50L	88	208	2.3
No.40	BT40-ZDS12-90	M2~M12 1/8~1/2 P1/8	90	φ 56	φ 36	ZDK12-□	26	116	1.8
						ZDK12-□-50L	76	166	1.9
	BT40-ZDS16-100	M4~M16 1/8~5/8 P1/8~P3/8	100		φ 45	ZDK16-□	28	128	2.1
						ZDK16-□-50L	78	178	2.3
	BT40-ZDS24-105	M12~M24 1/2~1 P3/8~P5/8	105		φ 50	ZDK24-□	38	143	2.3
						ZDK24-□-50L	88	193	2.6
No.50	BT50-ZDS12-100	M2~M12 1/8~1/2 P1/8	100	φ 56	φ 36	ZDK12-□	26	126	4.3
						ZDK12-□-50L	76	176	4.4
	BT50-ZDS16-110	M4~M16 1/8~5/8 P1/8~P3/8	110		φ 45	ZDK16-□	28	138	4.7
						ZDK16-□-50L	78	188	4.9
	BT50-ZDS24-115	M12~M24 1/2~1 P3/8~P5/8	115		φ 50	ZDK24-□	38	153	4.9
						ZDK24-□-50L	88	203	5.2

ZDK Tap Collet

★ +50L, +100L are also available

	ZDK12 - □			ZDK16 - □				ZDK24 - □		
D	M2~M5	M6~M8	M10~M12	M4~M5	M6~M8	M10~M12	M14~M16	M12	M14~M16	M18~M24
D2	φ 19			φ 25				φ 30		
D3	φ 28			φ 36				φ 42		
D4	φ 13	φ 16	φ 19	φ 13	φ 16	φ 19	φ 26	φ 19	φ 26	φ 32
H	26			28				38		
H2	20			22				30		

★ It can also be used Nikken synchro tap collet 「ZMK」 「OZMK-OM」 .

Recommended Combination

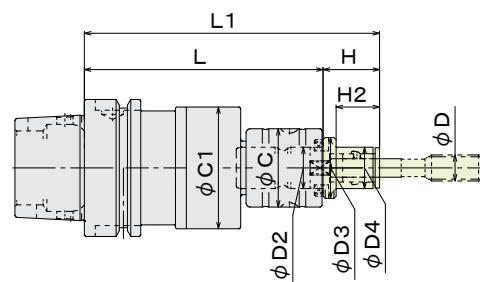
Tap Holder	Machine		Tap		
	With Synchronous Feed Mechanism	No Synchronous Feed Mechanism	Forming Tap	General Purpose Tap (Non-eccentric type)	Synchro Tap* (Eccentric type)
NIKKEN DREAM SYNCHRO	○	×	○	○	×

*Synchro taps are recommended for use with machines with a synchronous feed mechanism and fixed holders such as collet chucks. Do not use a synchro tap with "Dream Synchro tap holder" that has a minute float.

Tapping Capability : M2 ~ M24
High pressure center through

NEW ZDK Tap collet
for Dream Synchro Tap Holder

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ZDS

ZDK

★ +100L is also available

TAPER	Code No.	Tapping Capability	L	C1	C	Tap Collet	H	L1	Weight (kg)
HSK63A	HSK63A-ZDS12-110	M2~M12 1/8~1/2 P1/8	110	phi 56	phi 36	ZDK12-□	26	136	1.9
						ZDK12-□-50L	76	186	2
	HSK63A-ZDS16-120	M4~M16 1/8~5/8 P1/8~P3/8	120		phi 45	ZDK16-□	28	148	2.2
						ZDK16-□-50L	78	198	2.4
	HSK63A-ZDS24-125	M12~M24 1/2~1 P3/8~P5/8	125		phi 50	ZDK24-□	38	163	2.4
						ZDK24-□-50L	88	213	2.7
HSK100A	HSK100A-ZDS12-120	M2~M12 1/8~1/2 P1/8	120	phi 56	phi 36	ZDK12-□	26	146	3.3
						ZDK12-□-50L	76	196	3.4
	HSK100A-ZDS16-130	M4~M16 1/8~5/8 P1/8~P3/8	130		phi 45	ZDK16-□	28	158	3.6
						ZDK16-□-50L	78	208	3.8
	HSK100A-ZDS24-135	M12~M24 1/2~1 P3/8~P5/8	135		phi 50	ZDK24-□	38	173	3.8
						ZDK24-□-50L	88	223	4.1

ZDK Tap Collet : Features



Jet coolant type is also available
Coolant jets reliably cool cutting tools.
Powerful blowing prevents clogging chips and maximizes the operating time of machine.

★ Photo shows the jet coolant type

★ Please contact us for more information.