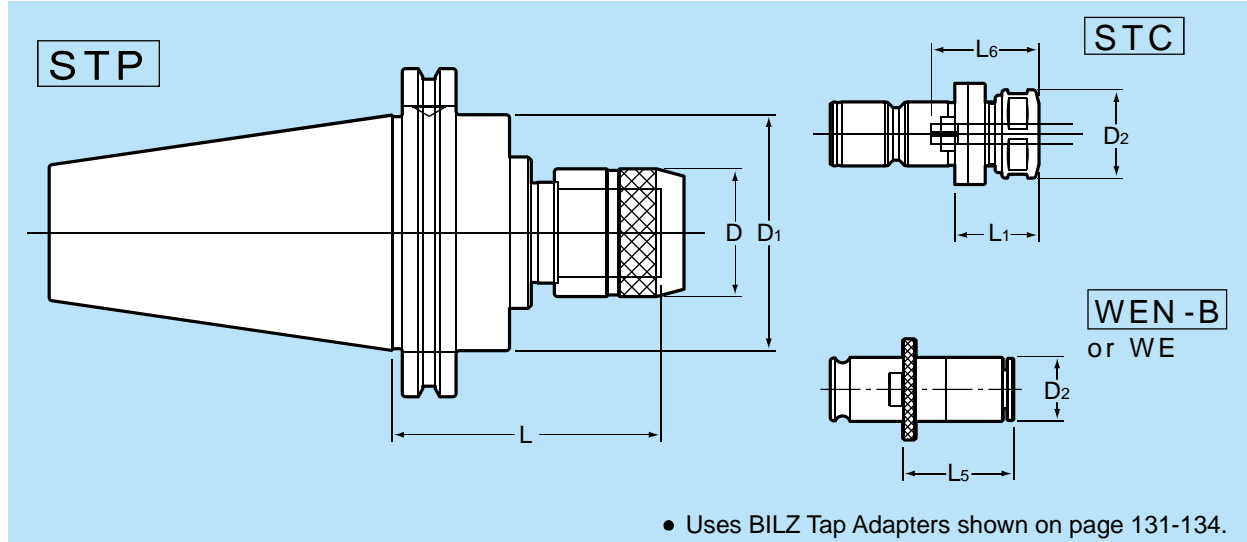


Synchro Tap Holders CAT / STP

Feature

- For machines with rigid tapping cycles.
- Compatible with NT high precision FDC collets or Bilz (WE/WEN) quick change.
- Length adjustable adapters offer quick easy adjustments.
- Coolant-thru capable with the use of FDC-OH high precision coolant collets.



Part Number	L	D	D ₁	Adapter Size	L ₅	D ₂	Tapping Capacity	Coolant Pressure
CAT40	-STP1- 65	2.559	1.496	STC1- ***	1.024	1.024	M3 - M12 PT1/8	145psi (1MPa)
	-STP1- 95	3.740		WEN1B- ***	1.299	0.748		
	-STP2- 85	3.346	1.750	WE1- ***	0.276	#8 - 12, 1/4, 5/16, 7/16, 1/8SS		
	-STP2-115	4.528		STC2- ***	1.378		1.417	
CAT50	-STP1- 80	3.150	1.496	WEN2B- ***	2.323	1.181	M8 - M20 PT1/8, PT1/4, PT3/8	72.5psi (0.5MPa)
	-STP1-110	4.331		WE2- ***	0.433			
	-STP2-100	3.937	2.750	STC1- ***	1.024	1.024	M3 - M12 PT1/8	
	-STP2-130	5.118		WEN1B- ***	1.299	0.748		
				STC2- ***	1.378	1.417	M8 - M20 1/4 - 3/4, 1/8SS, 1/8LS, 1/4P	
				WEN2B- ***	2.323	1.181		
			WE2- ***	0.433	1.181			

STC1	L ₆		STC2	L ₆	
	MIN	MAX		MIN	MAX
M3	0.945(1.063)	1.142	M8	1.339(1.496)	1.535
M4	1.024(1.102)	1.220	M10	1.339(1.496)	1.535
M5	1.220	1.378	M11	1.299(1.496)	1.496
M6	1.220	1.378	M12	1.378(1.535)	1.575
M8	1.260	1.457	M14	1.535	1.732
M10	1.260	1.457	M16	1.614	1.811
M11	1.260	1.457	M17	1.614	1.811
M12	1.299	1.457	M18	1.693	1.890
PT1/8	1.339	1.496	M20	1.693	1.890
			PT1/8	1.142	1.299
			PT1/4	1.142	1.220
			PT3/8	1.299	1.339

Ordering Example

- Holder
CAT40-STP1-95
- STC Adapter (with nut and collet)
STC1-M10-ANSI
- BILZ Adapter
WEN1B-M10-ANSI

ANSI, ISO
DIN, JIS

ANSI, ISO
DIN, JIS

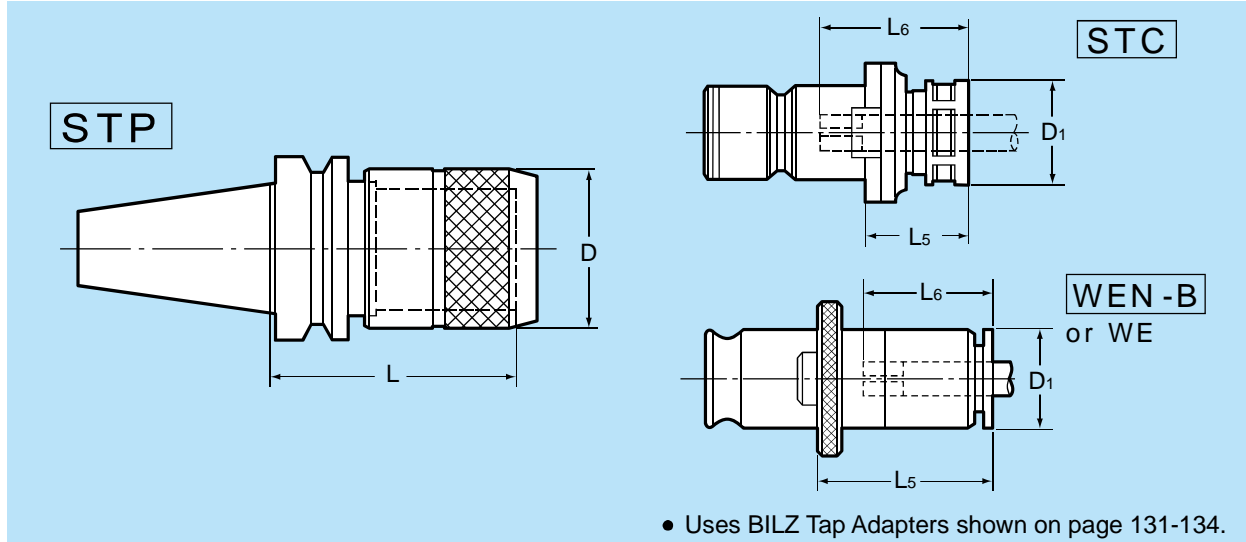
Part Number	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1-***	FDC-09	—	HDP-09B	S-1L
	—	ESC10	KDP-1916	
STC2-***	FDC-16	—	HDP-16B	S-4L
	—	ESC16	KDP-2825	

- STC adapter includes a collet and nut. Spanner (Page 60) is sold separately.
- When ordering STC Adapter, please specify the tap shank and drive square.
- With FDC-OH or C collet (Page 57) and STCAdapter, STP can be used for center-thru coolant.

Synchro Tap Holders BT / STP

Feature

- For machines with rigid tapping cycles.
- Compatible with NT high precision FDC collets or Bilz (WE/WEN) quick change.
- Length adjustable adapters offer quick easy adjustments.
- Coolant-thru capable with the use of FDC-OH high precision coolant collets.



Part Number	L	D	Adapter Size	L ₅	D ₁	Tapping Capacity	Coolant Pressure	
BT30	-STP1-65	2.559	1.496	STC1- ***	1.024	1.024	M3 - M12 PT1/8 #8 - 12, 1/4, 5/16, 7/16, 1/8SS	145psi (1MPa)
	-STP1-95	3.740	1.496	WEN1B- ***	1.299	0.748		
BT40	-STP2-85	3.346	2.165	STC2- ***	1.378	1.417	M8 - M20 PT1/8, PT1/4, PT3/8 1/4 - 3/4, 1/8SS, 1/8LS, 1/4P	72.5psi (0.5MPa)
	-STP2-115	4.528		WEN2B- ***	2.323	1.181		
				WE2- ***	0.433	1.181		
BT50	-STP1-80	3.150	1.496	STC1- ***	1.024	1.024	M3 - M12 PT1/8 #8 - 12, 1/4, 5/16, 7/16, 1/8SS	145psi (1MPa)
	-STP1-110	4.331	1.496	WEN1B- ***	1.299	0.748		
	-STP2-100	3.937	2.165	STC2- ***	1.378	1.417		
			WEN2B- ***	2.323	1.181			
			WE2- ***	0.433	1.181			

STC1	L ₆		STC2	L ₆	
	MIN	MAX		MIN	MAX
M3	0.945(1.063)	1.142	M8	1.339(1.496)	1.535
M4	1.024(1.102)	1.220	M10	1.339(1.496)	1.535
M5	1.220	1.378	M11	1.299(1.496)	1.496
M6	1.220	1.378	M12	1.378(1.535)	1.575
M8	1.260	1.457	M14	1.535	1.732
M10	1.260	1.457	M16	1.614	1.811
M11	1.260	1.457	M17	1.614	1.811
M12	1.299	1.457	M18	1.693	1.890
PT1/8	1.339	1.496	M20	1.693	1.890
			PT1/8	1.142	1.299
			PT1/4	1.142	1.220
			PT3/8	1.299	1.339

Ordering Example

- Holder
BT40-STP1-95
 - STC Adapter(with nut and collet)
STC1-M10- ANSI
 - BILZ Adapter
WEN1B-M10- ANSI
- ANSI, ISO
DIN, JIS
- ANSI, ISO
DIN, JIS

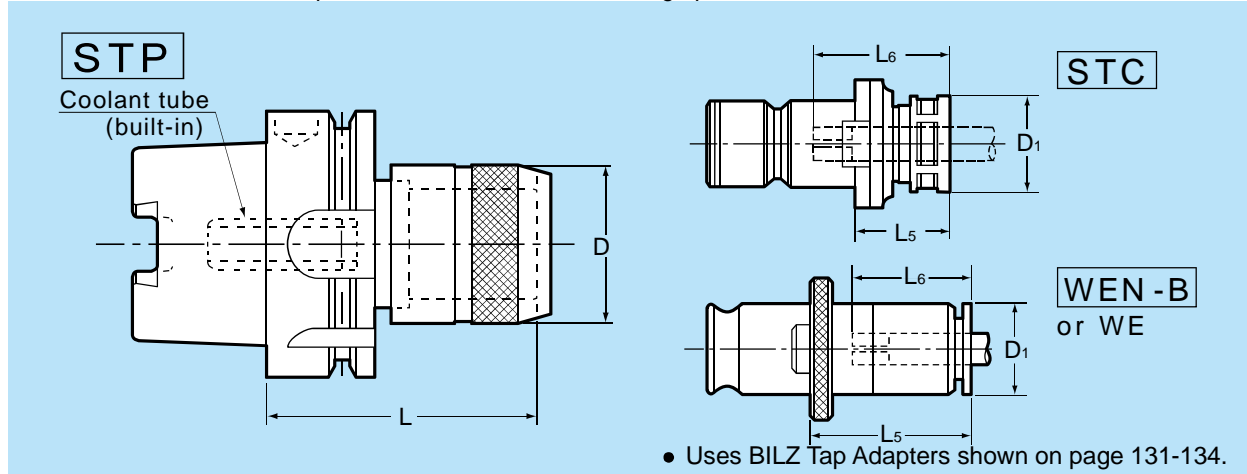
Part Number	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1-***	FDC-09	-	HDP-09B	S-1L
	-	ESC10	KDP-1916	
STC2-***	FDC-16	-	HDP-16B	S-4L
	-	ESC16	KDP-2825	

- STC adapter includes a collet and nut. Spanner (Page 60) is sold separately.
- When ordering STC Adapter, please specify the tap shank and drive square.
- With FDC-OH or C collet (Page 57) and STCAdapter, STP can be used for center-thru coolant.

Synchro Tap Holders H S K / S T P

Feature

- For machines with rigid tapping cycles.
- Compatible with NT high precision FDC collets or Bilz (WE/WEN) quick change.
- Length adjustable adapters offer quick easy adjustments.
- Coolant-thru capable with the use of FDC-OH high precision coolant collets.



Part Number	L	D	Adapter Size	L ₅	D ₁	Tapping Capacity	Coolant Pressure
HSK 40A	-STP1- 80	3.150	STC1- ***	1.024	1.024	M3 - M12 PT1/8 #8 - 12, 1/4, 5/16, 7/16, 1/8SS	145psi (1MPa)
	-STP1-110	4.331	WEN1B- *** WE1- ***	1.299 0.276	0.748		
HSK 63A	-STP1- 80	3.150	STC1- ***	1.024	1.024	M3 - M12 PT1/8 #8 - 12, 1/4, 5/16, 7/16, 1/8SS	145psi (1MPa)
	-STP1-110	4.331	WEN1B- *** WE1- ***	1.299 0.276	0.748		
	-STP2-100	3.937	STC2- ***	1.378	1.417	M8 - M20 PT1/8, PT1/4, PT3/8 1/4 - 3/4, 1/8SS, 1/8LS, 1/4P	72.5psi (0.5MPa)
	-STP2-130	5.118	WEN2B- *** WE2- ***	2.323 0.433	1.181		
HSK100A	-STP1- 95	3.740	STC1- ***	1.024	1.024	M3 - M12 PT1/8 #8 - 12, 1/4, 5/16, 7/16, 1/8SS	145psi (1MPa)
	-STP1-125	4.921	WEN1B- *** WE1- ***	1.299 0.276	0.748		
	-STP2-115	4.528	STC2- ***	1.378	1.417	M8 - M20 PT1/8, PT1/4, PT3/8 1/4 - 3/4, 1/8SS, 1/8LS, 1/4P	72.5psi (0.5MPa)
	-STP2-145	5.709	WEN2B- *** WE2- ***	2.323 0.433	1.181		

STC1	L ₆		STC2	L ₆	
	MIN	MAX		MIN	MAX
M3	0.945(1.063)	1.142	M8	1.339(1.496)	1.535
M4	1.024(1.102)	1.220	M10	1.339(1.496)	1.535
M5	1.220	1.378	M11	1.299(1.496)	1.496
M6	1.220	1.378	M12	1.378(1.535)	1.575
M8	1.260	1.457	M14	1.535	1.732
M10	1.260	1.457	M16	1.614	1.811
M11	1.260	1.457	M17	1.614	1.811
M12	1.299	1.457	M18	1.693	1.890
PT1/8	1.339	1.496	M20	1.693	1.890
			PT1/8	1.142	1.299
			PT1/4	1.142	1.220
			PT3/8	1.299	1.339

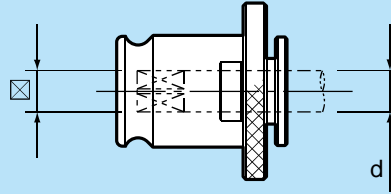
Ordering Example

- Holder
HSK63A-STP1-80
- STC Adapter(with nut and collet)
STC1-M10- ANSI ANSI, ISO
DIN, JIS
- BILZ Adapter
WEN1B-M10- ANSI ANSI, ISO
DIN, JIS

Part Number	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1-***	FDC-09	—	HDP-09B	S-1L
	—	ESC10	KDP-1916	
STC2-***	FDC-16	—	HDP-16B	S-4L
	—	ESC16	KDP-2825	

- STC adapter includes a collet and nut. Spanner (page 60) is sold separately.
- When ordering STC Adapter, please specify the tap shank and drive square.
- With FDC-OH or C collet (Page 57) and STCAdapter, STP can be used for center-thru coolant.

Tap Adapters WE, WES, WEN, WESN



■ ANSI

(inch)

Type	Tap size	Chuck Size	φ d Tap Shank	Drive Square
WE1 WES1B WEN1 WESN1B	#0-6	1	0.141	0.110
	#8		0.168	0.131
	#10		0.194	0.152
	#12		0.220	0.165
	1/4		0.255	0.191
	5/16		0.318	0.238
	3/8		0.381	0.286
	7/16		0.323	0.242
	1/2		0.367	0.275
	1/8SPT		0.313	0.234
1/8LPT	0.437	0.328		
WE2 WES2B WEN2 WESN2B	5/16	2	0.318	0.238
	3/8		0.381	0.286
	7/16		0.323	0.242
	1/2		0.367	0.275
	9/16		0.429	0.322
	5/8		0.480	0.360
	11/16		0.542	0.406
	3/4		0.590	0.442
	13/16		0.652	0.489
	7/8		0.697	0.523
WE3 WES3B WEN3 WESN3B	15/16	3	0.760	0.570
	1		0.800	0.600
	1-1/8		0.896	0.672
	1-1/4		1.021	0.766
	1-3/8		1.108	0.831
	1/2PT		0.687	0.515
	3/4PT		0.906	0.679
WE4 WES4B WEN4 WESN4B	1PT	4	1.125	0.843
	7/8		0.697	0.523
	15/16		0.760	0.570
	1		0.800	0.600
	1-1/8		0.896	0.672
	1-1/4		1.021	0.766
	1-3/8		1.108	0.831
1-1/2	1.233	0.925		
1-3/4	1.430	1.072		

■ ISO

(mm)

Type	Tap size	Chuck Size	φ d Tap Shank	Drive Square
WE1 WES1B WEN1 WESN1B	M3-1	1	2.24	1.8
	M3.5,M2		2.5	2.0
	M2.5,M2.2		2.8	2.24
	M4-1,M3-2		3.15	2.5
	M4.5,M3.5		3.55	2.8
	M5-1,M4-2		4.0	3.15
	M6-1		4.5	3.55
	M5-2		5.0	4.0
	M5-3		5.6	4.5
	M8-1,M6-2		6.3	5.0
	M7		7.1	5.6
	M11,M10-1,M8-2		8.0	6.3
	M12,M9		9.0	7.1
	M10-2		10.0	8.0
M14	11.2	9.0		
WE2 WES2B WEN2 WESN2B	M5-1,M4-2	2	4.0	3.15
	M6-1		4.5	3.55
	M5-2		5.0	4.0
	M5-3		5.6	4.5
	M8-1,M6-2		6.3	5.0
	M7		7.1	5.6
	M11,M10-1,M8-2		8.0	6.3
	M12,M9		9.0	7.1
	M10-2		10.0	8.0
	M14		11.2	9.0
	M16		12.5	10.0
	M20,M18		14.0	11.2
M22	16.0	12.5		
M24	18.0	14.0		
WE3 WES3B WEN3 WESN3B	M12,M9	3	9.0	7.1
	M10-2		10.0	8.0
	M14		11.2	9.0
	M16		12.5	10.0
	M20,M18		14.0	11.2
	M22		16.0	12.5
	M24		18.0	14.0
	M30,M27		20.0	16.0
WE4 WES4B WEN4 WESN4B	M33-1	4	22.4	18.0
	M36,M33-2		25.0	20.0
	M42,M39		28.0	22.4
	M22		16.0	12.5
	M24		18.0	14.0
	M30,M27		20.0	16.0
M33-1	22.4	18.0		
M36,M33-2	25.0	20.0		
M42,M39	28.0	22.4		

Tap Adapters WE, WES, WEN, WESN

■ DIN

(mm)

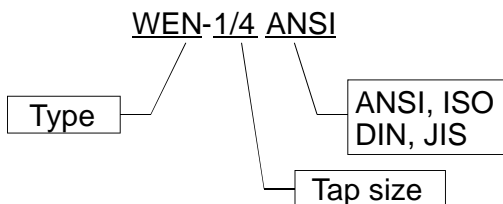
Type	Tap size	Chuck Size	φ d Tap Shank	☒ Drive Square
WE1 WES1B WEN1 WESN1B	M3,M5	1	3.5	2.7
	M3.5		4.0	3.0
	M4,M6		4.5	3.4
	M5,M6,M8		6.0	4.9
	M10		7.0	5.5
	M8,M10		8.0	6.2
	M12		9.0	7.0
	M10		10.0	8.0
	M14		11.0	9.0
WE2 WES2B WEN2 WESN2B	M3,M5	2	3.5	2.7
	M3.5		4.0	3.0
	M4,M6		4.5	3.4
	M5,M6,M8		6.0	4.9
	M10		7.0	5.5
	M8,M10		8.0	6.2
	M12		9.0	7.0
	M10		10.0	8.0
	M14		11.0	9.0
	M16		12.0	9.0
	M18		14.0	11.0
	M20		16.0	12.0
M22,M24	18.0	14.5		
WE3 WES3B WEN3 WESN3B	M12	3	9.0	7.0
	M10		10.0	8.0
	M14		11.0	9.0
	M16		12.0	9.0
	M18		14.0	11.0
	M20		16.0	12.0
	M22,M24		18.0	14.5
	M27,M30		20.0	16.0
	M33,M36		22.0	18.0
M36	25.0	20.0		
WE4 WES4B WEN4 WESN4B	M22,M24	4	18.0	14.5
	M27,M30		20.0	16.0
	M30		22.0	18.0
	M33,M36		25.0	20.0
	M36		28.0	22.0
	M39,M42		32.0	24.0
M45,M48	36.0	29.0		

■ JIS

(mm)

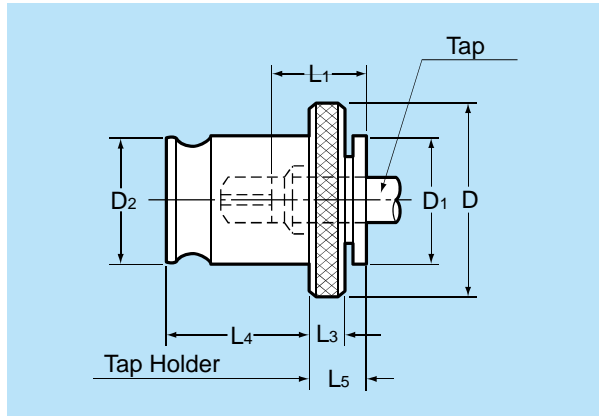
Type	Tap size	Chuck Size	φ d Tap Shank	☒ Drive Square		
WE1 WES1B WEN1 WESN1B	M3	1	4.0	3.2		
	M4,M4.5		5.0	4.0		
	M5,M5.5		5.5	4.5		
	M6		6.0	4.5		
	M7,M8		6.2	5.0		
	M9,M10		7.0	5.5		
	M11		8.0	6.0		
	M12		8.5	6.5		
	M13		9.5	7.0		
	M14,M15		10.5	8.0		
	WE2 WES2B WEN2 WESN2B		M6	2	6.0	4.5
			M7,M8		6.2	5.0
			M9,M10		7.0	5.5
M11		8.0	6.0			
M12		8.5	6.5			
M13		9.5	7.0			
M14,M15		10.5	8.0			
M16		12.5	10.0			
M17		13.0	10.0			
M18		14.0	11.0			
M20		15.0	12.0			
M22		17.0	13.0			
WE3 WES3B WEN3 WESN3B		M14,M15	3		10.5	8.0
	M16	12.5		10.0		
	M17	13.0		10.0		
	M18	14.0		11.0		
	M20	15.0		12.0		
	M22	17.0		13.0		
	M24,M25	19.0		15.0		
	M26,M27	20.0		15.0		
	M28	21.0		17.0		
	M30	23.0		17.0		
	M32	24.0		19.0		
	M33	25.0		19.0		
	M34,M35	26.0		21.0		
M36,M38	28.0	21.0				
WE4 WES4B WEN4 WESN4B	M22	4	17.0	13.0		
	M24,M25		19.0	15.0		
	M26,M27		20.0	15.0		
	M28		21.0	17.0		
	M30		23.0	17.0		
	M32		24.0	19.0		
	M33		25.0	19.0		
	M34,M35		26.0	21.0		
	M36,M38		28.0	21.0		
	M39,M40		30.0	23.0		
	M42		32.0	26.0		
	M45		35.0	26.0		
	M48		38.0	29.0		

Ordering Example



Tap Adapter Dimensional Data WE, WES

■ WE

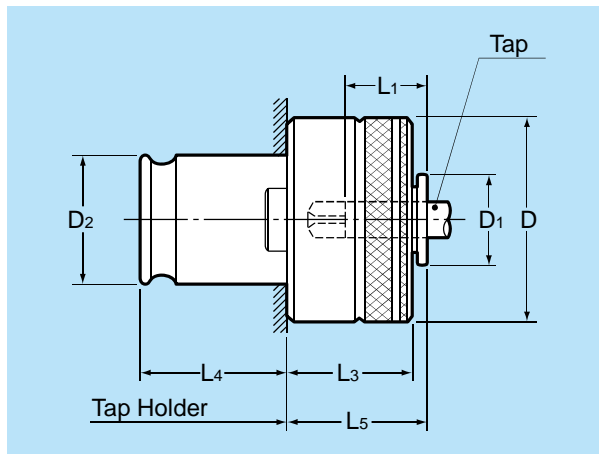


Feature

- Quick Change
- Rigid tap adapter

Type	Tapping Capacity	Tap Shank	Adapter Size	D	D ₁	D ₂	L ₁	L ₃	L ₄	L ₅
WE1	#0-12, 1/4 - 1/2 M3-M12	φ 0.138-0.445 (φ 3.5-11.3mm)	1	1.181	0.748	0.748	0.669	0.157	0.846	0.276
WE2	5/16 - 7/8 M8-M20	φ 0.276-0.709 (φ 7-18mm)	2	1.890	1.181	1.220	1.181	0.197	1.378	0.433
WE3	13/16 - 1-3/8 M14-M33	φ 0.433-1.102 (φ 11-28mm)	3	2.756	1.890	1.890	1.732	0.236	2.185	0.551
WE4	7/8 - 1-3/4 M22-M48	φ 0.709-1.417 (φ 18-36mm)	4	3.622	2.362	2.362	2.795	0.512	2.480	1.654

■ WES•B



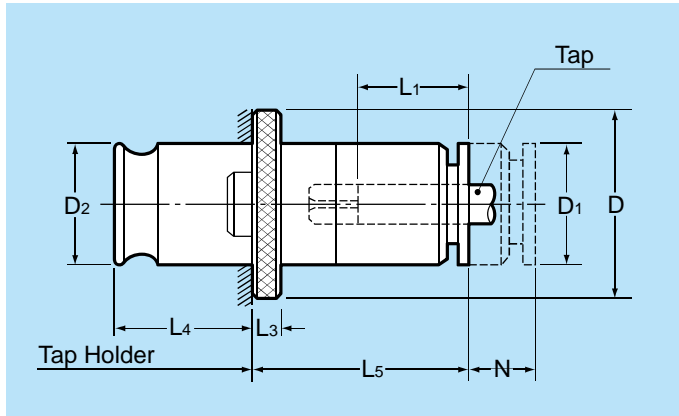
Feature

- Quick Change
- Rigid tap adapter with torque clutch.

Type	Tapping Capacity	Tap Shank	Adapter Size	D	D ₁	D ₂	L ₁	L ₃	L ₄	L ₅
WES1B	#0-12, 1/4 - 1/2 M3-M12	φ 0.138-0.445 (φ 3.5-11.3mm)	1	1.260	0.748	0.748	0.669	0.984	0.846	0.984
WES2B	5/16 - 7/8 M8-M20	φ 0.276-0.709 (φ 7-18mm)	2	1.969	1.181	1.220	1.181	1.220	1.378	1.339
WES3B	13/16 - 1-3/8 M14-M33	φ 0.433-1.102 (φ 11-28mm)	3	2.835	1.890	1.890	1.732	1.614	2.185	1.772
WES4B	7/8 - 1-3/4 M22-M48	φ 0.709-1.417 (φ 18-36mm)	4	3.740	2.362	2.362	2.795	2.402	2.480	2.677

Tap Adapter Dimensional Data WEN, WESN•B

■ WEN

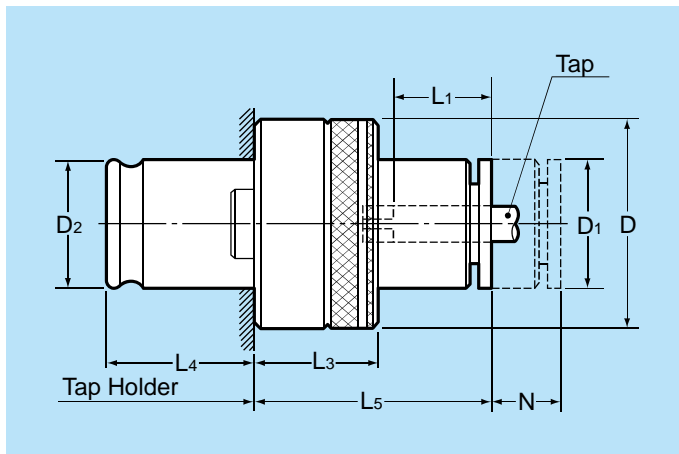


Feature

- Quick Change
- Rigid tap adapter with length adjustment.

Type	Tapping Capacity	Tap Shank	Adapter Size	N	D	D ₁	D ₂	L ₁	L ₃	L ₄	L ₅
WEN1	#0-12, 1/4 - 1/2 M3-M12	φ 0.138-0.445 (φ 3.5-11.3mm)	1	0.394	1.181	0.748	0.748	0.669	0.157	0.846	1.339
WEN2	5/16 - 7/8 M8-M20	φ 0.276-0.709 (φ 7-18mm)	2	0.591	1.890	1.181	1.220	1.181	0.197	1.378	2.362
WEN3	13/16 - 1-3/8 M14-M33	φ 0.433-1.102 (φ 11-28mm)	3	0.984	2.756	1.890	1.890	1.732	0.236	2.185	3.268
WEN4	7/8 - 1-3/4 M22-M48	φ 0.709-1.417 (φ 18-36mm)	4	0.984	3.622	2.362	2.362	2.795	0.512	2.480	5.394

■ WESN•B



Feature

- Quick Change
- Rigid tap adapter with torque clutch and length adjustment.

Type	Tapping Capacity	Tap Shank	Adapter Size	N	D	D ₁	D ₂	L ₁	L ₃	L ₄	L ₅
WESN1B	#0-12, 1/4 - 1/2 M3-M12	φ 0.138-0.445 (φ 3.5-11.3mm)	1	0.394	1.260	0.748	0.748	0.669	0.984	0.846	1.339
WESN2B	5/16 - 7/8 M8-M20	φ 0.276-0.709 (φ 7-18mm)	2	0.591	1.969	1.181	1.220	1.181	1.220	1.378	2.362
WESN3B	13/16 - 1-3/8 M14-M33	φ 0.433-1.102 (φ 11-28mm)	3	0.984	2.835	1.890	1.890	1.732	1.614	2.185	3.268
WESN4B	7/8 - 1-3/4 M22-M48	φ 0.709-1.417 (φ 18-36mm)	4	0.984	3.740	2.362	2.362	2.795	2.402	2.480	5.394