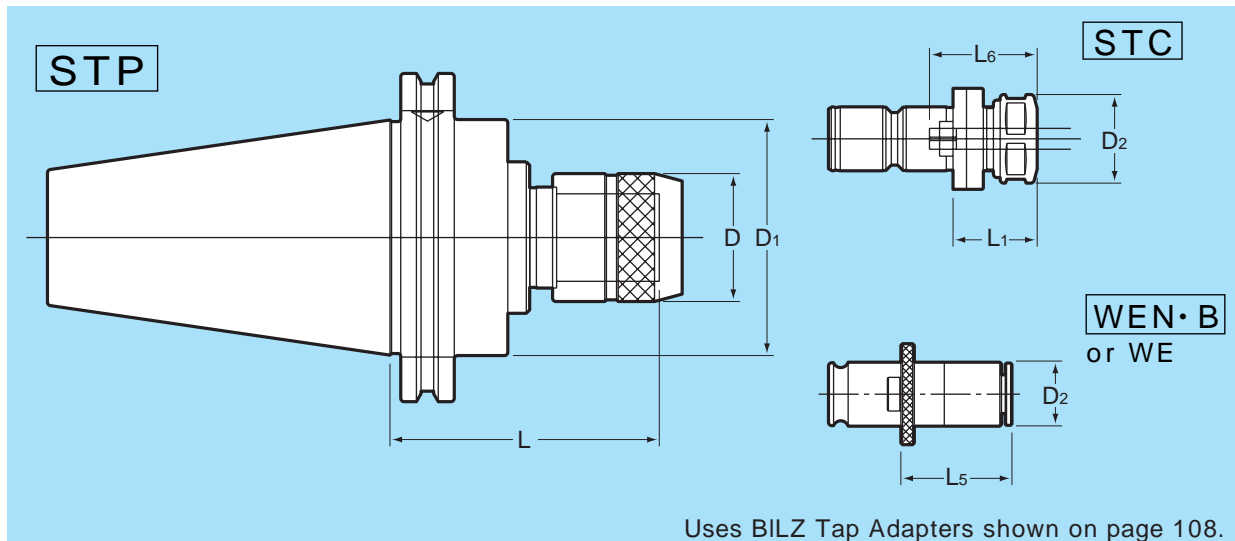


# Synchro Tap Holders CAT / STP

## 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 <sub>1</sub>	Adapter Size	L <sub>5</sub>	D <sub>2</sub>	Tapping Capacity	Coolant Pressure
CAT 40	-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	
CAT 50		2.165		WEN2B- ***	2.323	1.181	M8 ~ M20 PT1/8, PT1/4, PT3/8	72.5psi (0.5MPa)
				WE2- ***	0.433		1/4 ~ 3/4, 1/8SS, 1/8LS, 1/4P	
	-STP1- 80	3.150	1.496	STC1- ***	1.024	1.024	M3 ~ M12 PT1/8	145psi (1MPa)
	-STP1-110	4.331		WEN1B- ***	1.299	0.748		
			2.750	WE1- ***	0.276	#8 ~ 12, 1/4, 5/16, 7/16, 1/8SS		
	-STP2-100	3.937		STC2- ***	1.378		1.417	
		2.165		WEN2B- ***	2.323	1.181	M8 ~ M20 PT1/8, PT1/4, PT3/8	72.5psi (0.5MPa)
	-STP2-130	5.118		WE2- ***	0.433		1/4 ~ 3/4, 1/8SS, 1/8LS, 1/4P	

STC1	L <sub>6</sub>		STC2	L <sub>6</sub>	
	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

ANSI, ISO  
DIN, JIS

BILZ Adapter  
WEN1B-M10-ANSI

ANSI, ISO  
DIN, JIS

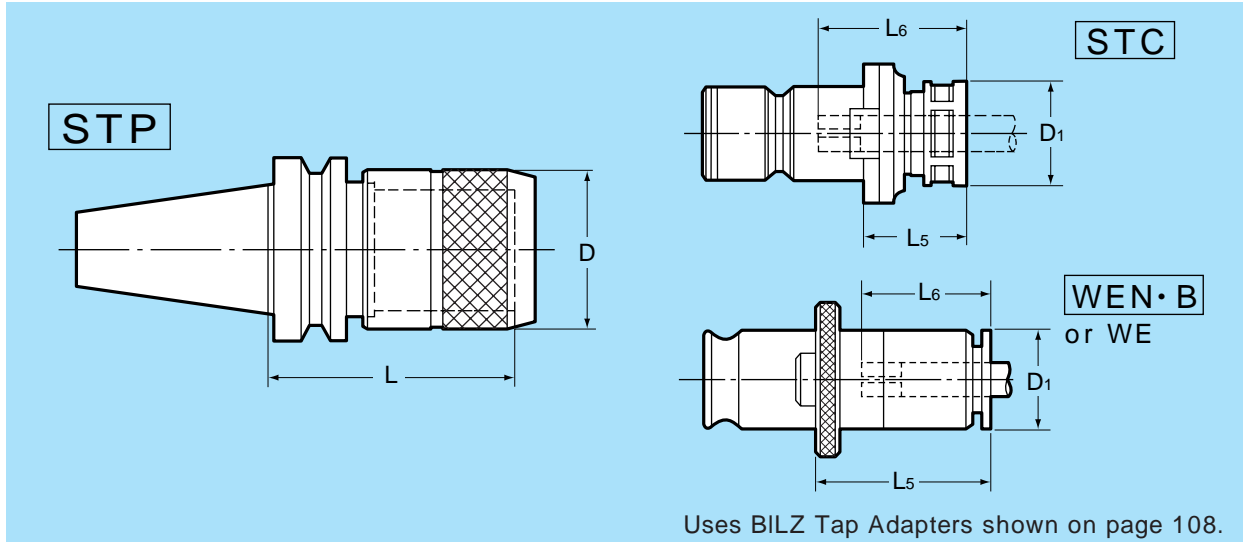
Part Number	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1-***	FDC-09		HDP-09B	S-1L
		ESC10	KDP-1916	
STC2-***	FDC-16		HDP-16B	S-4L
		ESC16	KDP-2825	

STC adapter comes complete with a collet and nut. Spanner (page 49) is sold separately.  
When ordering STC Adapter, please specify the tap shank and drive square.  
With FDC-OH or C collet (Page46) and STC Adapter, 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 <sub>5</sub>	D <sub>1</sub>	Tapping Capacity	Coolant Pressure	
BT 30	-STP1-65	2.559	1.496	STC1- ***	1.024	1.024	M3 ~ M12 PT1/8	145psi (1MPa)
	-STP1-95	3.740	1.496	WEN1B- ***	1.299	0.748		
BT 40	-STP1-85	3.346	2.165	STC2- ***	1.378	1.417	M8 ~ M20 PT1/8, PT1/4, PT3/8	72.5psi (0.5MPa)
	-STP2-85	3.346		WEN2B- ***	2.323	1.181		
	-STP2-115	4.528		WE2- ***	0.433	1.181		
BT 50	-STP1-80	3.150	1.496	STC1- ***	1.024	1.024	M3 ~ M12 PT1/8	145psi (1MPa)
	-STP1-110	4.331	1.496	WEN1B- ***	1.299	0.748		
	-STP2-100	3.937	2.165	STC2- ***	1.378	1.417	M8 ~ M20 PT1/8, PT1/4, PT3/8	72.5psi (0.5MPa)
	-STP2-130	5.118		WEN2B- ***	2.323	1.181		
	-STP2-130	5.118		WE2- ***	0.433	1.181		

STC1	L <sub>6</sub>		STC2	L <sub>6</sub>	
	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

ANSI, ISO  
DIN, JIS

BILZ Adapter  
WEN1B-M10-ANSI

ANSI, ISO  
DIN, JIS

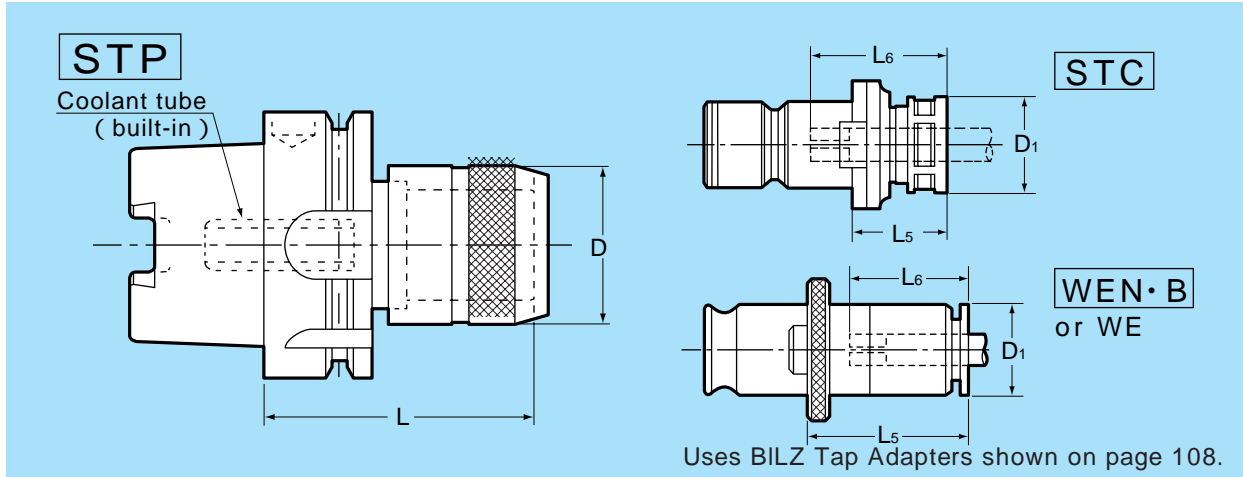
Part Number	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1-***	FDC-09		HDP-09B	S-1L
		ESC10	KDP-1916	
STC2-***	FDC-16		HDP-16B	S-4L
		ESC16	KDP-2825	

STC adapter comes complete with a collet and nut. Spanner (page 49) is sold separately.  
When ordering STC Adapter, please specify the tap shank and drive square.  
With FDC-OH or C collet (Page46) and STC Adapter, 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 <sub>5</sub>	D <sub>1</sub>	Tapping Capacity	Coolant Pressure
HSK 40 A	-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- ***	1.299	0.748		
			WE1- ***	0.276			
HSK 63 A	-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- ***	1.299	0.748		
	-STP2-100	3.937	STC2- ***	1.378	1.417		
	-STP2-130	5.118	WEN2B- ***	2.323	1.181		
			WE2- ***	0.433			
HSK100 A	-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- ***	1.299	0.748		
	-STP2-115	4.528	STC2- ***	1.378	1.417		
	-STP2-145	5.709	WEN2B- ***	2.323	1.181		
			WE2- ***	0.433			

STC1	L <sub>6</sub>		STC2	L <sub>6</sub>	
	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  
HSK63A-H-STP1-80  
(HSK Type A with manual clamping hole.)

STC Adapter(with nut and collet)  
STC1-M10-ANSI

ANSI, ISO  
DIN, JIS

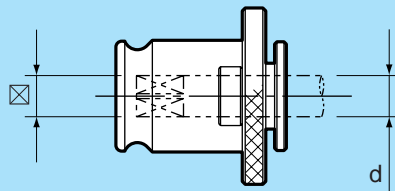
BILZ Adapter  
WEN1B-M10-ANSI

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 comes complete with a collet and nut. Spanner (page 49) is sold separately.  
When ordering STC Adapter, please specify the tap shank and drive square.  
With FDC-OH or C collet (Page46) and STC Adapter, STP can be used for center-thru coolant.

# Tap Adapters WE, WES, WEN, WESN



## ANSI

(inch)

Type	Tap size	Chuck Size	d Tap Shank	Drive Square
WE 1 WES 1 B WEN 1 WESN 1 B	#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		
WE 2 WES 2 B WEN 2 WESN 2 B	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
	1/4PT		0.562	0.421
3/8PT	0.700	0.531		
1/2PT	0.687	0.515		
WE 3 WES 3 B WEN 3 WESN 3 B	13/16	3	0.652	0.489
	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
1/2PT	0.687	0.515		
3/4PT	0.906	0.679		
1PT	1.125	0.843		
WE 4 WES 4 B WEN 4 WESN 4 B	7/8	4	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)

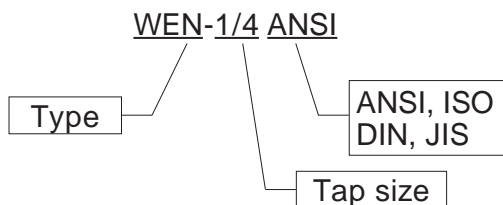
Type	Tap size	Chuck Size	d Tap Shank	Drive Square
WE 1 WES 1 B WEN 1 WESN 1 B	M3-1	1	2.24	1.8
	M3.5,M2		2.5	2.0
	M2.5,M2.2		2.8	2.24
	M4-1,M3-2		3.15	2.5
	M4.5,M3.5		3.55	2.8
	M5-1,M4-2		4.0	3.15
	M6-1		4.5	3.55
	M5-2		5.0	4.0
	M5-3		5.6	4.5
	M8-1,M6-2		6.3	5.0
	M7		7.1	5.6
	M11,M10-1,M8-2		8.0	6.3
	M12,M9		9.0	7.1
	M10-2		10.0	8.0
M14	11.2	9.0		
WE 2 WES 2 B WEN 2 WESN 2 B	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
WE 3 WES 3 B WEN 3 WESN 3 B	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
	M12,M9		9.0	7.1
	M10-2		10.0	8.0
	M14		11.2	9.0
WE 4 WES 4 B WEN 4 WESN 4 B	M16	4	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
	M33-1		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

# Tap Adapters WE, WES, WEN, WESN

DIN		(mm)		
Type	Tap size	Chuck Size	d Tap Shank	☒Drive Square
WE 1 WES 1 B WEN 1 WESN 1 B	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
WE 2 WES 2 B WEN 2 WESN 2 B	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		
WE 3 WES 3 B WEN 3 WESN 3 B	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
WE 4 WES 4 B WEN 4 WESN 4 B	M33,M36	4	22.0	18.0
	M36		25.0	20.0
	M39,M42		28.0	22.0
	M45,M48		32.0	24.0
	M36		25.0	20.0
	M45,M48		36.0	29.0

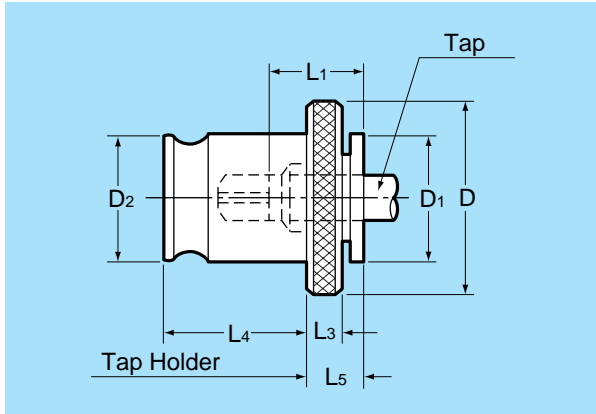
JIS		(mm)		
Type	Tap size	Chuck Size	d Tap Shank	☒Drive Square
WE 1 WES 1 B WEN 1 WESN 1 B	M3	1	4.0	3.2
	M4,M4.5		5.0	4.0
	M5,M5.5		5.5	4.5
	M6		6.0	4.5
	M7,M8		6.2	5.0
	M9,M10		7.0	5.5
	M11		8.0	6.0
	M12		8.5	6.5
	M13		9.5	7.0
	M14,M15		10.5	8.0
WE 2 WES 2 B WEN 2 WESN 2 B	M6	2	6.0	4.5
	M7,M8		6.2	5.0
	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
WE 3 WES 3 B WEN 3 WESN 3 B	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
WE 4 WES 4 B WEN 4 WESN 4 B	M34,M35	4	26.0	21.0
	M36,M38		28.0	21.0
	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
	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



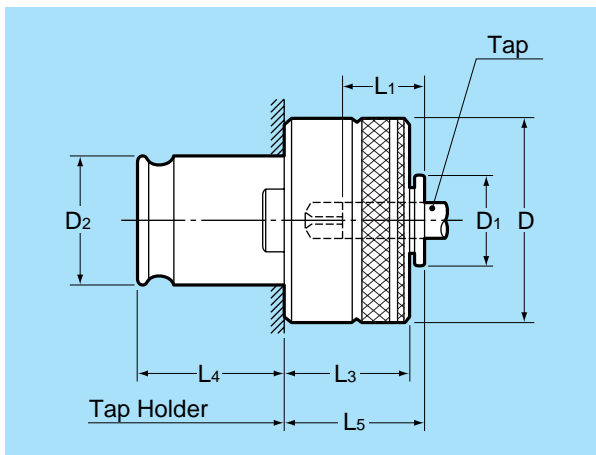
### Feature

Quick Change

Rigid tap adapter

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

## WES \* B



### Feature

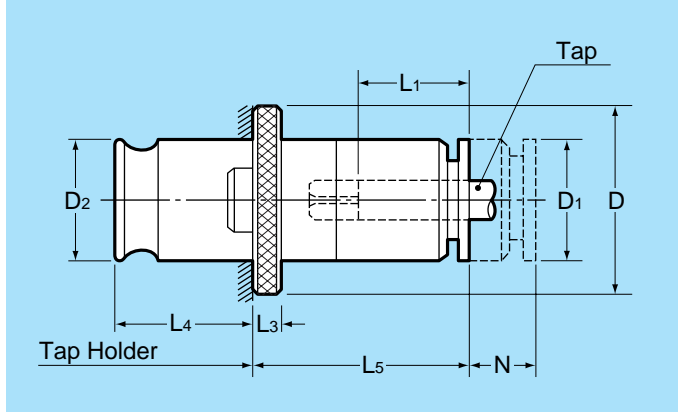
Quick Change

Rigid tap adapter with torque clutch.

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

# Tap Adapter Dimensional Data WEN, WESN

## WEN



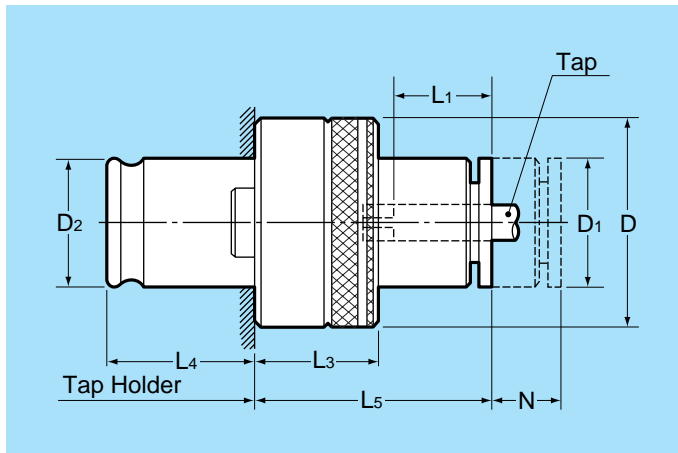
### Feature

Quick Change

Rigid tap adapter with length adjustment.

Type	Tapping Capacity	Tap Shank	Adapter Size	N	D	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>
WEN 1	#0-12, 1/4 - 1/2 M3-M12	0.138-0.445 ( 3.5-11.3mm )	1	0.394	1.181	0.748	0.748	0.669	0.157	0.846	1.339
WEN 2	5/16 - 7/8 M8-M20	0.276-0.709 ( 7-18mm )	2	0.591	1.890	1.181	1.220	1.181	0.197	1.378	2.362
WEN 3	13/16 - 1-3/8 M14-M33	0.433-1.102 ( 11-28mm )	3	0.984	2.756	1.890	1.890	1.732	0.236	2.185	3.268
WEN 4	7/8 - 1-3/4 M22-M48	0.709-1.417 ( 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 <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>
WESN 1 B	#0-12, 1/4 - 1/2 M3-M12	0.138-0.445 ( 3.5-11.3mm )	1	0.394	1.260	0.748	0.748	0.669	0.984	0.846	1.339
WESN 2 B	5/16 - 7/8 M8-M20	0.276-0.709 ( 7-18mm )	2	0.591	1.969	1.181	1.220	1.181	1.220	1.378	2.362
WESN 3 B	13/16 - 1-3/8 M14-M33	0.433-1.102 ( 11-28mm )	3	0.984	2.835	1.890	1.890	1.732	1.614	2.185	3.268
WESN 4 B	7/8 - 1-3/4 M22-M48	0.709-1.417 ( 18-36mm )	4	0.984	3.740	2.362	2.362	2.795	2.402	2.480	5.394