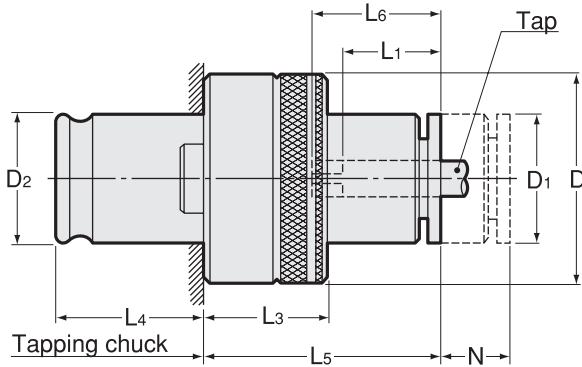


WESN · B

Quick Change Tap Adapter




Applications

- For right-hand thread only. Through hole and blind hole.

Feature

- Quick Change
- Safety torque clutch actuates to prevent tap breakage when an excessive torque is applied to tap. In this case, a tapping chuck with compression device should be used together.
- Length Adjustment facilitates your depth control of re-ground tap.

 For capable tap sizes, please refer to P.462-464 chart.

Code	Model	Tap Size	Chuck size	N Adjustable length	D	D1	D2	L1	L3	L4	L5	kg
0210 06100 ※※※	WESN0B	M3 ~ M8 (M10) U1/4 ~ U5/16 (U3/8)	0	8	23	13	13	15	20	19.5	28	0.1
0210 06101 ※※※	WESN1B	M3 ~ M12 (M15) U1/4 ~ U7/16 (U9/16) Pipe(PT,PS,PF)1/8 ~ 1/4	1 32	10	32	19	19	17	25	21.5	33	0.2
0210 06140 ※※※	WESN40B	M6 ~ M18 U1/4 ~ U3/4	40	15	40	25	26	30	27	32	53	0.4
0210 06102 ※※※	WESN2B	M8 ~ M22 U3/8 ~ U7/8	2	15	50	30	31	30	31	35	59	0.7
0210 06103 ※※※	WESN3B	M26 ~ M38 U1 ~ U1 3/8	3	25	72	48	48	44	41	55.5	82.5	2.1

1. Tap sizes in brackets are for light tapping only.
2. Calculate tap projection length from L1 dimension.
3. Tapping chuck with compression device should be used together.
4. Specify PT, PS or PF when using a pipe tap, as each of them has various safety torque value.
5. L1 and L6 dimensions fluctuate with tap sizes. Always take into account $\pm 1.5\text{mm}$ allowance.
6. Refer to P.462 for tap shank dia. and square dimension.

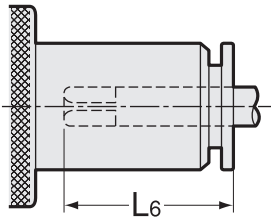
Ordering Example

WESN2B M12J

Adapter size Tap size

Tapping Capacity

Dimension L6



Symbol

☉ : For JIS (old) Tap

● : For Coarse Thread Tap

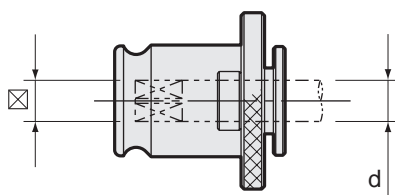
※ : For light machining on aluminum alloy and the like

! For capable tap sizes, please refer to P.462-464 chart.

WESN · B、WES · B、WE

Tap Dimension					WESN · B WES · B WE 0		WESN · B WES · B WE 1		WESN · B WES · B WE 40		WESN · B WES · B WE 2		WESN · B WES · B WE 3	
Metric Thread	Unified Thread	Whit-worth Thread	Shank Dia. ϕ	Square \square		L6		L6		L6		L6		L6
M3	NO5,NO6		4	3.2	☉	22	☉	23						
M4 M4.5	NO8		5	4	☉	22.5	☉	24.5						
M5 M5.5	NO10,NO12		5.5	4.5	☉	22.5	☉	24.5						
M6	U1/4	W1/4	6	4.5	☉	22	☉	24.5	☉	36.5				
	U5/16	W5/16	6.1	5	☉	23	☉	25	☉	37.5				
M8 M7			6.2	5	☉	23	☉	25.5	☉	37	☉	37		
M10 M9	U3/8	W3/8	7	5.5	※	23.5	☉	25.5	☉	37	☉	37		
	M11 U7/16	W7/16	8	6			☉	26.5	●	38.5	●	38.5		
M12			8.5	6.5			☉	26.5	●	38	●	38		
	U1/2	W1/2	9	7			☉	27	☉	38.5	☉	38.5		
M14 M15	U9/16	W9/16	10.5	8			※	28	●	40	●	40		
	U5/8	W5/8	12	9					☉	41.5	☉	41.5		
M16			12.5	10					●	42	●	42		
	M17		13	10					☉	42	☉	42		
M18	U3/4	W3/4	14	11					☉	43.5	☉	43.5		
M20			15	12							☉	44		
M22	U7/8	W7/8	17	13							☉	45		
M27 M26	U1	W1	20	15									●	62
	M28		21	17									●	63.5
	U1 1/8	W1 1/8	22	17									●	62.5
M30			23	17									●	62
	M32	U1 1/4	24	19									●	66
M33			25	19									●	66
M35 M34	U1 3/8	W1 3/8	26	21									●	68
M36 M38			28	21									●	67
Pipe Tap Dimension														
PT	PS	PF	ϕ	\square										
1/8	1/8	1/8	8	6			☉	26.5						
1/4	1/4	1/4	11	9			☉	29						

Tapping Capacity



ANSI

Unit : Inch

Type	Chuck size	Tap size	φ d Tap Shank	☒ Drive Square
WE0 WES0B WEN0 WESN0B	0	#0-6	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
WE1 WES1B WEN1 WESN1B	1	5/16	0.318	0.238
		#0-6	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
		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	2	5/16	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	3	1/4PT	0.562	0.421
		3/8PT	0.700	0.531
		1/2PT	0.687	0.515
		13/16	0.652	0.489
		7/8	0.697	0.523
		15/16	0.760	0.570
		1	0.800	0.600
WE4 WES4B	4	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
		7/8	0.697	0.523
		15/16	0.760	0.570

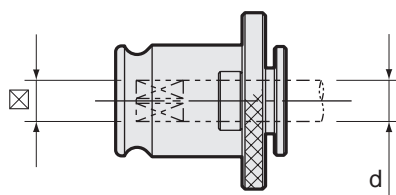
ISO

Unit : Metric

Type	Chuck size	Tap size	φ d Tap Shank	☒ Drive Square
WE0 WES0B WEN0 WESN0B	0	Please contact NT USA for details.		
WE1 WES1B WEN1 WESN1B	1	M3-1	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
WE2 WES2B WEN2 WESN2B	2	M14	11.2	9.0
		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
		M16	12.5	10.0
		M20, M18	14.0	11.2
		M22	16.0	12.5
WE3 WES3B WEN3 WESN3B	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
		M30, M27	20.0	16.0
		M33-1	22.4	18.0
		M36, M33-2	25.0	20.0
WE4 WES4B	4	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

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Sub Holder
- Tapping Chuck
- Tap Adapter
- Adjustable Adapter
- Endmill Chuck
- Straight Drill Chuck
- Floating Holder

Tapping Capacity



DIN

Unit : Metric

Type	Chuck size	Tap size	φ d Tap Shank	Drive Square
WE0 WES0B WENO WESN0B	0	M3, M5	3.5	2.7
		M4, M6	4.5	3.4
		M5, M6, M8	6.0	4.9
		M10	7.0	5.5
		M8, M10	8.0	6.2
WE1 WES1B WEN1 WESN1B	1	M3, M5	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
WE2 WES2B WEN2 WESN2B	2	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
		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
WE3 WES3B WEN3 WESN3B	3	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
		M22, M24	18.0	14.5
WE4 WES4B	4	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

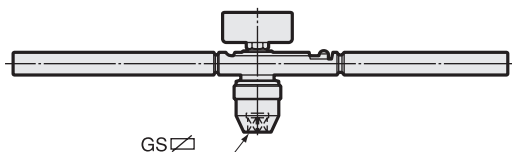
Unit : Metric

Type	Chuck size	Tap size	φ d Tap Shank	Drive Square
WE0 WES0B WENO WESN0B	0	M3	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
WE1 WES1B WEN1 WESN1B	1	M11	8.0	6.0
		M3	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
WE2 WES2B WEN2 WESN2B	2	M14, M15	10.5	8.0
		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
		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	3	M14, M15
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
WE4 WES4B	4	M32	24.0	19.0
		M33	25.0	19.0
		M34, M35	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		

Torque Setting

Torque Wrench (for right thread)

G type

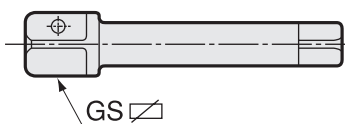


Oil pressure torque wrench with N-m, divisions.

Code	Model	Adapter size	(N-m)	GS
0150 09000000	G0	0	15	13
0150 09000001	G1	0.1	30	13
0150 09000002	G2	2.40	120	13
0150 09000003	G3	3	300	13
0150 09000004	GE4-RD4	4	1,000	25

Setting Shank

GS type



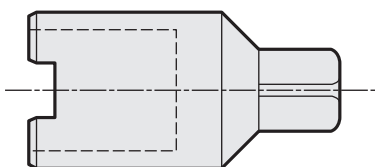
Code	Model	GS	Tapsize
0210 091100 ※※	GS13-M ※※	13	M3 ~ M38
0210 091110 ※※	GS25-M ※※	25	M22 ~ M48

1. Tap size will be inserted in " ※※ ".

2. Square head of setting shank fit into square part of torque wrench.

Setting Socket

GW type

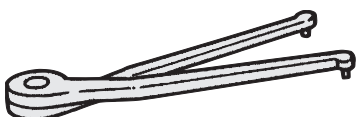


Code	Model	Adapter size
0210 09200000	GW0	0
0210 09200001	GW1	1
0210 09200040	GW40	40
0210 09200002	GW2	2
0210 09200003	GW3	3
0210 09200004	GW4	4

Fix square part of setting socket on vise, and then insert tap adapter into it for torque setting.

Adjustable Pin Wrench

GWA type

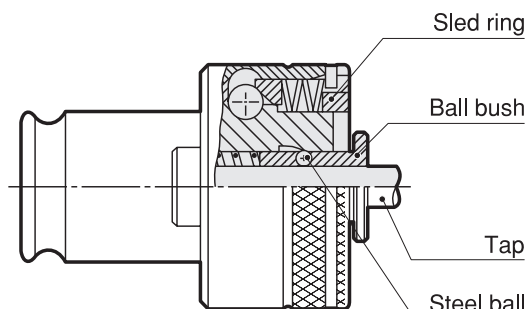


Code	Model	Pin diameter	Adapter size
0150 09300000	GWA0	2	0
0150 09300001	GWA1	2.5	1
0150 09300040	GWA40	3	2、3、40
0150 09300004	GWA4	6	4

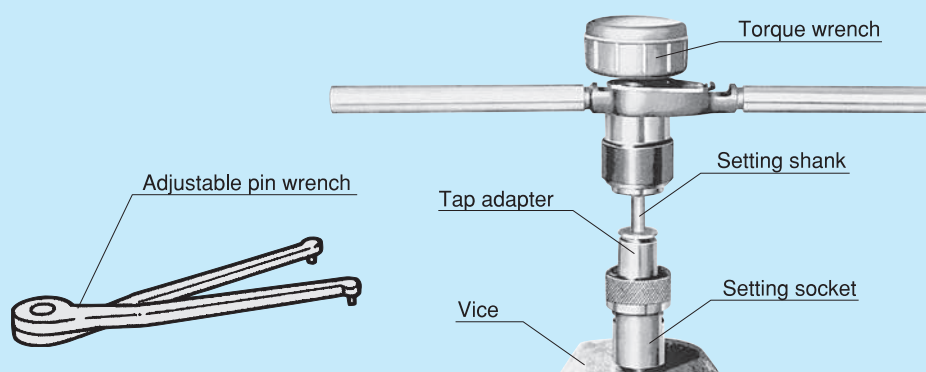
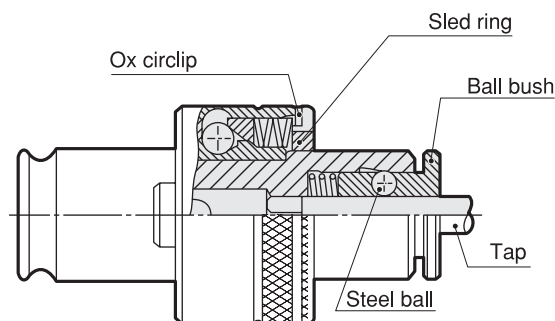
Rotate sled ring of tap adapter by pin wrench for torque adjustment.

Torque setting

Tap adapter type WES · B



Tap adapter type WESN · B



Torque setting by special tool

- 1) Fix square part of setting socket by using vise.
- 2) Insert tap adapter into the setting socket.
- 3) Insert the setting shank into the tap adapter.
- 4) Insert square part of torque wrench into head part of setting shank.
- 5) Check current torque.
- 6) When changing torque, remove horn part of ox circlip.
- 7) Insert adjustable pin wrench into pin hole of sled ring.
- 8) Rotate sled ring clockwise when increase torque or counterclockwise when decrease torque.
- 9) Check torque again after setting torque.
- 10) After setting the torque, return horn part of ox circlip to original position to fix sled ring.

Torque setting without special tool

- 1) Remove horn part of ox circlip.
- 2) Insert adjustable pin wrench into pin hole of sled ring.
- 3) Rotate sled ring clockwise when increase torque or counterclockwise when decrease torque. Sled ring rotation must be 45 ~ 90°
- 4) After setting the torque, return horn part of ox circlip to original position to fix sled ring.

Guidelines for Torque Value

Metric Tap		Inch Tap		PT Tap		PS and PF Taps	
Tap Size	Torque (N-m)	Tap Size	Torque (N-m)	Tap Size	Torque (N-m)	Tap Size	Torque (N-m)
M3	1.0	1/8"	2.0	1/8"	26.0	1/8"	8.0
M4	2.3	1/4"	8.0	1/4"	35.0	1/4"	26.0
M5	3.7	5/16"	14.0	3/8"	47.0	3/8"	32.0
M6	6.0	3/8"	22.0	1/2"	100.0	1/2"	65.0
M7	7.5	7/16"	32.0	3/4"	120.0	3/4"	90.0
M8	12.0	1/2"	45.0	1"	240.0	1"	160.0
M9	14.0	9/16"	52.0	1 1/4"	270.0	1 1/4"	200.0
M10	22.0	5/8"	65.0	1 3/8"	300.0	1 3/8"	220.0
M11	26.0			1 1/2"	310.0	1 1/2"	240.0
M12	32.0	3/4"	90.0				
M14	47.0						
M16	52.0	7/8"	120.0				
M18	82.0						
M20	90.0	1"	160.0				
M22	100.0	1 1/8"	220.0				
M24	135.0	1 1/4"	250.0				
M27	160.0	1 3/8"	325.0				
M30	230.0	1 1/2"	360.0				
M33	250.0	1 5/8"	580.0				
M36	310.0	1 3/4"	630.0				
M39	325.0	1 7/8"	750.0				
M40 (細)	210.0	2"	800.0				
M42	420.0						
M45	480.0						
M48	630.0						
M50 (細)	260.0						

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
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- Tapping Chuck
- Tap Adapter
- Adjustable Adapter
- Endmill Chuck
- Straight Drill Chuck
- Floating Holder