

Model Shown:
TWHC3



Features

QUALITY MEANS LOWER COST OF OWNERSHIP

- Designed for high cycle life (2-3x more than existing technology)
- Increased reliability provided by simple drive assembly means less downtime
- Corrosion resistant material for use in harsh environments

ENHANCED USABILITY:

- Compact nose radius allows the tool to fit in tighter, hard-to-reach spaces
- Low weight, high strength design
- Fast operation, long stroke and optimum flow
- Multi-direction high flow swivel manifold
- Push-button square drive reversal and reaction arm positioning for all models except TWHC50.

DESIGNED WITH SAFETY IN MIND:

- Fully-enclosed drive mechanism for operator safety
- Swivel manifold internal relief valve prevents retract side over-pressurization
- Fine tooth pawl prevents tool 'lock-on'

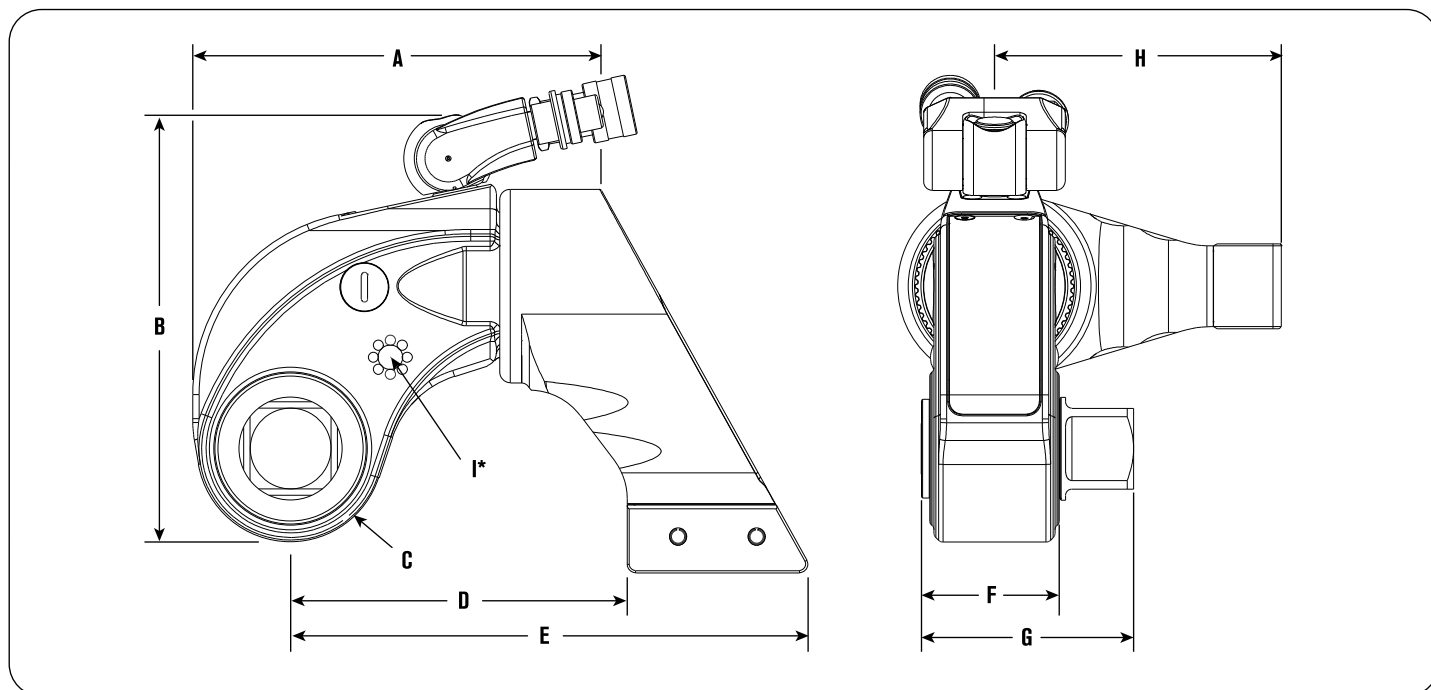
▶ The TWS50 is the perfect choice in this power generation application.



HANDLES SOLD SEPARATELY



The tool's designed long-stroke mechanism imparts a minimum 30 degree nut rotation per stroke while maintaining a tight and compact nose radius. This is a clear advantage over the short stroke and back-up pawl mechanisms of light alloy competitive models. Fewer parts and reduced torsion in operation equals reduced wear, maintenance and associated costs.



* Dimension I shows thread size (on both sides of the tool) for safety handle or lifting point. TWHC50 model available with lifting points only.

Technical Dimensions

Tool Model	Min Torque (ft. lbs.)	Max Torque (ft. lbs.)	Square Drive (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	I (in.)	Prod. Wt. (lbs.)
TWHC1	170	1,413	0.75	5.20	5.71	1.10	4.39	6.69	1.56	2.67	3.39	M6 x 1.0	6.2
TWHC3	376	3,136	1.00	6.50	6.83	1.44	5.10	7.78	2.09	3.30	4.14	M6 x 1.0	11.7
TWHC6	726	6,050	150	7.56	7.94	1.73	6.24	9.59	2.40	3.93	5.32	M8 x 1.25	19.4
TWHC50	6,360	53,000	2.50	15.93	14.04	3.46	10.49	17.58	4.53	7.57	10.16	M12 x 1.75	152

Tools

Ordering Information

Order No.	Description
TWHC1	Wrench
TWHC3	Wrench
TWHC6	Wrench
TWHC50	Wrench

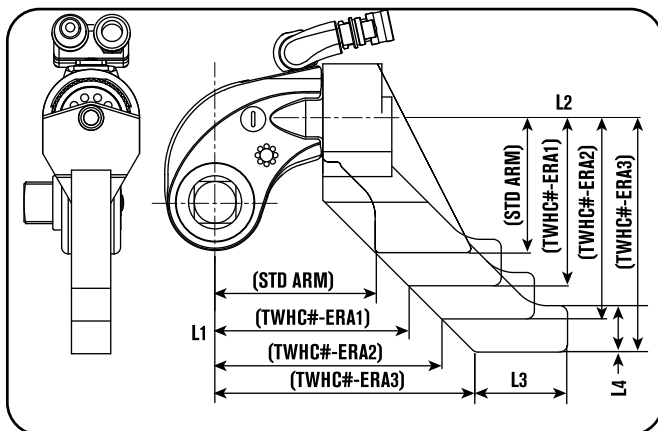
Order No.	Description
TWHC1H	Wrench with Handle
TWHC3H	Wrench with Handle
TWHC6H	Wrench with Handle

Order No.	Description
DFTAS000001	Handle for TWHC1
DFTAS000001	Handle for TWHC3
DFTAS000002	Handle for TWHC6

TWHC EXTENDED REACTION ARM TWHC-ERA

Features

- Long reach version of TWHC standard reaction arm
- 3 standard sizes per model (0.98 in./1.97 in./2.95 in.), specials upon request
- Replaces standard reaction arm via quick release locking pin
- Steel alloy construction
- 360° rotation
- Available for full range of tool sizes

Ordering Information


Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)
STD ARM		4.41	3.39	—	—
TWHC1	TWHC1-ERA1	5.39	4.37	2.36	1.18
	TWHC1-ERA2	6.38	5.35		
	TWHC1-ERA3	7.36	6.34		
STD ARM		5.12	4.13	—	—
TWHC3	TWHC3-ERA1	6.10	5.12	2.76	1.38
	TWHC3-ERA2	7.09	6.10		
	TWHC3-ERA3	8.07	7.09		
STD ARM		6.23	5.35	—	—
TWHC6	TWHC6-ERA1	7.24	6.34	3.74	1.57
	TWHC6-ERA2	8.23	7.32		
	TWHC6-ERA3	9.21	8.31		

TW HANDLE

Tools


Features

- Robust steel construction with ribbed polymer grip
- Multi-position on tool for balanced handling
- Cap-screw locking with positive 'docking'
- Is suitable for all wrench models (TWHC, TWSD, TWLC). However, for larger sizes (TWSD25/TWLC 30/ TWHC50) we recommend the use of eye-bolt lifting.

Ordering Information

Order No.	Description	Tool Ref
DFTAS000001	Wrench Handle	TWSD1
		TWSD3
		TWHC1
		TWHC3
		TWLC2

Order No.	Description	Tool Ref
DFTAS000002	Wrench Handle	TWSD6
		TWSD11
		TWHC6
		TWLC4
		TWLC8
		TWLC15

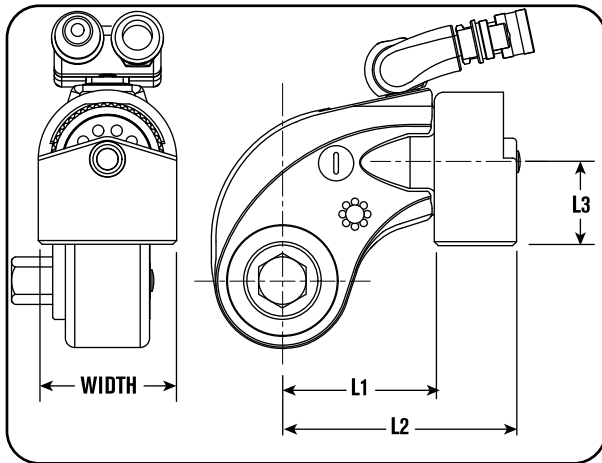
TWHC REACTION PAD TWHC-RP



Features

- In-Line Reaction Pad for TWHC wrenches used as simple pad, or modified platform for specific application (Machine-able/Weld-able platform)
- Replaces standard reaction arm via quick release locking pin
- Steel alloy construction
- 360° rotation
- Available for full range of tool sizes

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)	Width (in.)
TWHC1	TWHC1-RP	2.835	4.567	1.93	2.52
TWHC3	TWHC3-RP	3.39	5.43	2.17	2.99
TWHC6	TWHC6-RP	3.90	6.38	2.44	3.50

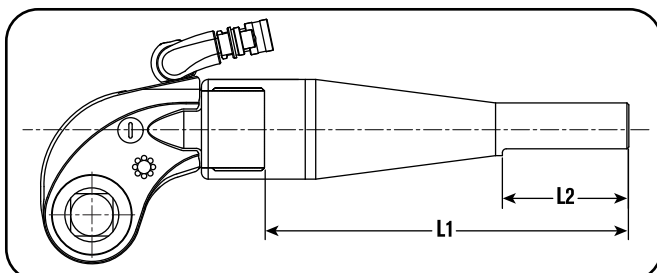
TWHC LONG REACTION ARM TWHC-LRA



Features

- Tubular extension arm for TWHC wrenches for in-line reaction outside wrench profile
- Replaces standard reaction arm via quick release pin locking
- Steel/light alloy construction (reaction flat machined on tube end)
- Can be cut down to suit specific length
- Available for full range of tool sizes

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)
TWHC1	TWHC1-LRA	19.72	6.00
TWHC3	TWHC3-LRA		
TWHC6	TWHC6-LRA		

Model Shown:
TWSD11



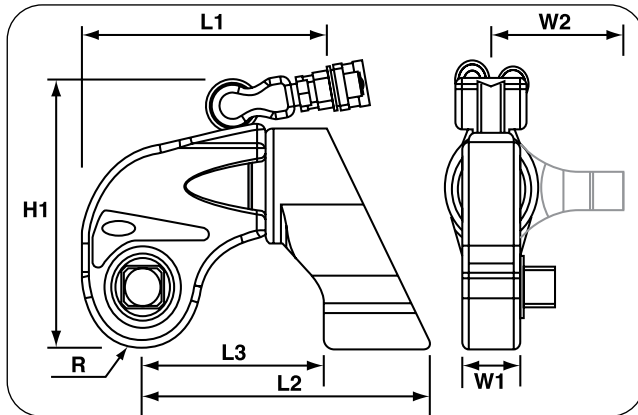
Features

HYDRAULIC SQUARE DRIVE TORQUE WRENCHES

- Corrosion resistant finish, low weight, high strength steel body construction design with superior torsional strength.
- Fast operation cycle, fine tooth ratchet, with floating piston design.
- Multi-axis high flow swivel manifold with internal relief valve prevents retract side over-pressurization
- Push button reversal of square drive
- 360° reaction arm, with push to lock reaction arm.
- Simple design, fully enclosed drive mechanism, provides accurate torque output

NOTE: Standard Reaction Arm included for all models

The TWSD11 is the perfect choice with a large reaction surface to eliminate damage to the gears during the tightening process.



Tools

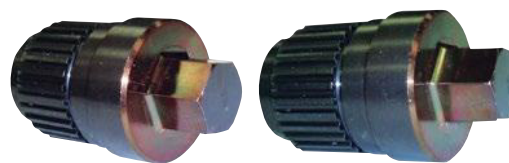
Technical Dimensions

Tool Model	L1	L2	L3	H1	R	W1	W2	Square Drive (in.)	Max. Torque (ft. lbs.)	Tool Wt. (lbs.)
	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)			
TWSD11	9.21	11.50	7.01	9.49	2.20	2.40	6.50	1.50	10,940	28.88
TWSD25	12.01	14.80	9.09	12.40	2.80	2.99	7.87	2.50	24,700	65.04

Ordering Information

Order No.	Description
TWSD11	Wrench - 10,940 lb-ft
TWSD25	Wrench - 24,500 lb-ft

Order No.	Description
DFTAS000001	Wrench Handle Size 1 Tool Ref. TWSD1 and TWSD3
DFTAS000002	Wrench Handle Size 2 Tool Ref. TWSD06 and TWSD11



Ordering Information

SQUARE DRIVE - ADAPTERS & SOCKETS

Torque Wrench	Hexagon Drive Size AF (in.)	Order No.		Torque Wrench	Hexagon Drive Size AF (in.)	Order No.	
		TWSD	TWHC			TWSD	TWHC
(TWSD1) (TWHC1)	0.63	TWD1-063	TWHCHD01-063	(TWSD6) (TWHC6)	1.25	TWD6-125	TWHCHD06-125
	0.75	TWD1-075	TWHCHD01-075		1.38	TWD6-138	TWHCHD06-138
	0.88	TWD1-088	TWHCHD01-088		1.50	TWD6-150	TWHCHD06-150
	1.00	TWD1-100	TWHCHD01-100		1.63	TWD6-163	TWHCHD06-163
(TWSD3) (TWHC3)	0.63	TWD3-063	TWHCHD03-063	(TWSD11)	1.13	TWD11-113	-
	0.75	TWD3-075	TWHCHD03-075		1.25	TWD11-125	-
	0.88	TWD3-088	TWHCHD03-088		1.38	TWD11-138	-
	1.00	TWD3-100	TWHCHD03-100		1.50	TWD11-150	-
	1.13	TWD3-113	TWHCHD03-113		1.63	TWD11-163	-
	1.25	TWD3-125	TWHCHD03-125		1.75	TWD11-175	-
	1.38	TWD3-138	TWHCHD03-138		1.50	TWD25-150	-
	1.50	TWD3-150	TWHCHD03-150	(TWSD25)	1.63	TWD25-163	-
(TWSD6) (TWHC6)	1.63	TWD3-163	TWHCHD03-163		1.75	TWD25-175	-
	0.88	TWD6-063	TWHCHD06-063		1.88	TWD25-188	-
	0.75	TWD6-075	TWHCHD06-075		2.00	TWD25-200	-
	0.88	TWD6-088	TWHCHD06-088		2.25	TWD25-225	-
	1.00	TWD6-100	TWHCHD06-100		2.50	TWD25-250	-
	1.13	TWD6-113	TWHCHD06-113		2.75	TWD25-275	-



Ordering Information

SQUARE DRIVE - IMPACT SOCKETS

Socket Size (in.)	0.75" Drive	1.00" Drive	1.50" Drive	2.50" Drive	Socket Size (in.)	0.75" Drive	1.00" Drive	1.50" Drive	2.50" Drive
	Part No.	Part No.	Part No.	Part No.		Part No.	Part No.	Part No.	Part No.
0.88	TWSIA088	TWSIB088	—	—	3.13	—	TWSIB313	TWSIC313	TWSIF313
1.06	TWSIA106	TWSIB106	—	—	3.38	—	TWSIB338	TWSIC338	TWSIF338
1.25	TWSIA125	TWSIB125	—	—	3.50	—	TWSIB350	TWSIC350	TWSIF350
1.38	TWSIA138	TWSIB138	—	—	3.75	—	TWSIB375	TWSIC375	TWSIF375
1.44	TWSIA144	TWSIB144	—	—	3.88	—	TWSIB388	—	TWSIF388
1.63	TWSIA163	TWSIB163	TWSIC163	—	4.13	—	TWSIB413	TWSIC413	TWSIF413
1.81	TWSIA181	TWSIB181	-	—	4.25	—	TWSIB425	TWSIC425	TWSIF425
2.00	TWSIA200	TWSIB200	TWSIC200	—	4.63	—	—	TWSIC463	TWSIF463
2.19	TWSIA219	TWSIB219	TWSIC219	—	5.00	—	—	—	TWSIF500
2.38	TWSIA238	TWSIB238	TWSIC238	—	5.38	—	—	—	TWSIF538
2.56	—	TWSIB256	TWSIC256	—	5.75	—	—	—	TWSIF575
2.75	—	TWSIB275	TWSIC275	—	6.13	—	—	—	TWSIF613
2.94	—	TWSIB294	TWSIC294	—					

Note: For Long Reach (Extended Length) sockets add "LR" to the end of the part number. For 12 point (bi-hex) sockets, add "BH" to the end of the part number.

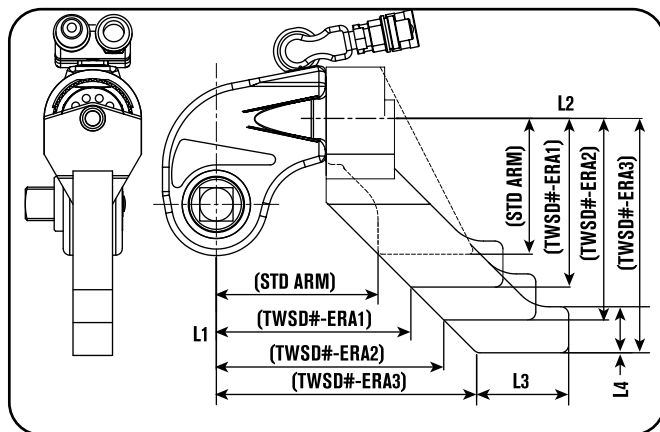
TWSD EXTENDED REACTION ARM TWSD-ERA



>Features

- Long reach version of TWSD standard reaction arm
- 3 standard sizes per model (0.98 in./1.97 in./2.95 in.), specials upon request
- Replaces standard reaction arm via quick release locking pin
- Steel alloy construction
- 360° rotation
- Available for full range of tool sizes

> Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)
STD ARM		4.41	3.39		
TWSD1	TWSD1-ERA1	5.39	4.37	2.36	1.18
	TWSD1-ERA2	6.38	5.35		
	TWSD1-ERA3	7.36	6.34		
STD ARM		4.88	4.13		
TWSD3	TWSD3-ERA1	5.87	5.12	2.76	1.38
	TWSD3-ERA2	6.85	6.10		
	TWSD3-ERA3	7.83	7.09		
STD ARM		5.59	5.35		
TWSD6	TWSD6-ERA1	6.57	6.34	3.74	1.57
	TWSD6-ERA2	7.56	7.32		
	TWSD6-ERA3	8.54	8.31		
STD ARM		7.05	6.5		
TWSD11	TWSD11-ERA1	8.03	7.48	4.33	1.57
	TWSD11-ERA2	9.02	8.46		
	TWSD11-ERA3	10	9.45		
STD ARM		9.09	7.87		
TWSD25	TWSD25-ERA1	10.08	8.86	5.71	1.97
	TWSD25-ERA2	11.06	9.84		
	TWSD25-ERA3	12.05	10.83		

TW HANDLE



>Features

- Robust steel construction with ribbed polymer grip
- Multi-position on tool for balanced handling
- Cap-screw locking with positive 'docking'
- Is suitable for all wrench models (TWHC, TWSD, TWLC). However, for larger sizes (TWSD25/TWLC30/TWHC50) we recommend the use of eye-bolt lifting.

> Ordering Information

Order No.	Description	Tool Ref
DFTAS000001	Wrench Handle	TWSD1
		TWSD3
		TWHC1
		TWHC3
		TWLC2

Order No.	Description	Tool Ref
DFTAS000002	Wrench Handle	TWSD6
		TWSD11
		TWHC6
		TWLC4
		TWLC8
		TWLC15

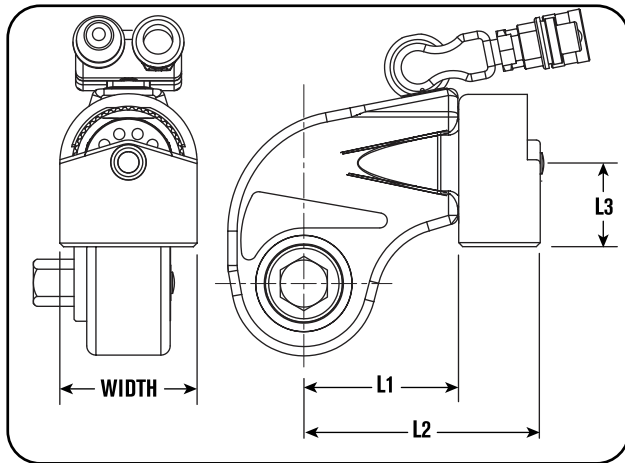
TWSD REACTION PAD TWSD-RP



Features

- Wrench In-Line Reaction Pad for TWSD wrenches used as simple pad, or modified platform, for specific application (Machine-able/Weld-able platform)
- Replaces standard reaction arm via quick release locking pin
- Steel alloy construction
- 360° rotation
- Available for full range of tool sizes

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)	Width (in.)
TWSD1	TWSD1-RP	2.835	4.567	1.713	2.480
TWSD3	TWSD3-RP	3.307	5.354	1.890	2.913
TWSD6	TWSD6-RP	3.681	6.122	2.244	3.543
TWSD11	TWSD11-RP	4.311	7.264	2.579	4.133
TWSD25	TWSD25-RP	5.374	9.587	3.484	5.630

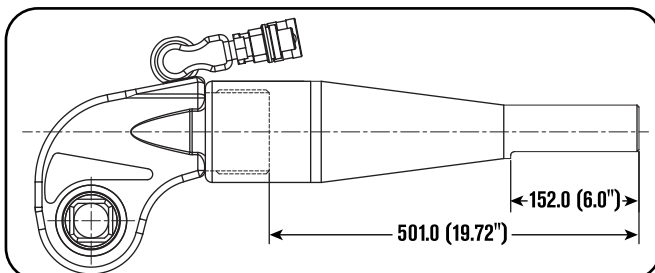
TWSD LONG REACTION ARM TWSD-LRA



Features

- Tubular extension arm for TWSD wrenches for in-line reaction outside wrench profile
- Replaces standard reaction arm via quick release locking pin
- Steel/light alloy construction (reaction flat machined on tube end)
- Can be cut down to suit specific length
- Available for full range of tool sizes

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)
TWSD1	TWSD1-LRA	19.72	6.00
TWSD3	TWSD3-LRA		
TWSD6	TWSD6-LRA		
TWSD11	TWSD11-LRA		
TWSD25	TWSD25-LRA		

Model Shown:
TWLC Body



* Links sold separately.
Tool is not shipped with link.

Features

THE CLEARANCE TOOL FEATURES A LONG NECK, SHORT HEIGHT, AND SMALL NOSE RADIUS FOR INACCESSIBLE BOLTING AREAS FOUND IN INDUSTRY.

- Corrosion resistant finish, low weight, high strength steel body construction design with superior torsional strength.
- Fine tooth ratchet with floating piston design with small nose radius, allows for a fast operation cycle.
- Link pin does not fall out.
- Multi-axis high flow swivel manifold with internal relief valve prevents retract side over-pressurization
- "Hardened" steel reaction pad on TWLC8, 15 & 30
- Simple design, auto-connect drive piston quick interchangeable heads, no tools necessary, consistent torque output
- Replaceable reaction pad on larger models
- Power Team PowerThon™ Limited Lifetime Warranty



Handle Options



TWLC2 + DFTAS000001
TWLC4 + DFTAS000002
TWLC8
TWLC15

Handle can be mounted to either Link or Drive Body.
TWLC4 only- use adaptor DFTHA000003 to mount handle to drive body

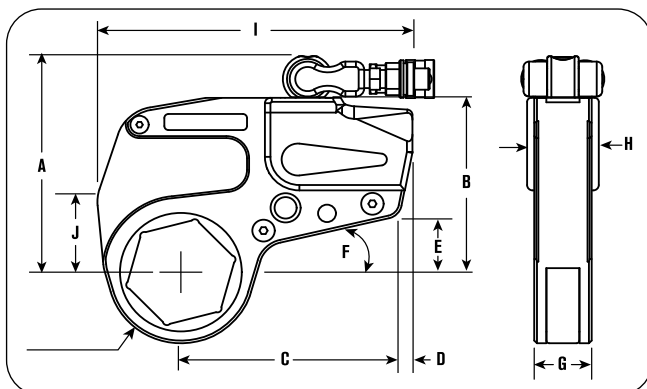


Torque Wrench Hoses - Non-Conductive Dual Line



Order No.	Hose Length (ft.)	Hose I.D. (in.)
TWH15	15	1/4"
TWH20	20	1/4"
TWH30	50	1/4"

Tools



Technical Dimensions

Body Order No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (deg.)	G (in.)	H (in.)
TWLC2	5.4	4.1	5.0	0.3	1.4	13	1.3	1.7
TWLC4	6.4	5.1	6.3	0.4	1.7	13	1.7	2.0
TWLC8	7.7	6.2	7.0	1.0	1.6	14	2.1	2.6
TWLC15	8.8	7.3	7.9	1.1	1.7	14	2.5	3.0
TWLC30	10.9	9.4	10.5	1.0	2.4	15	3.2	3.7

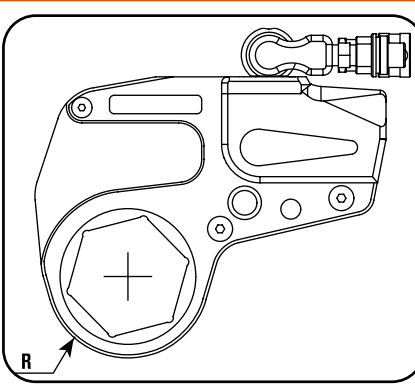
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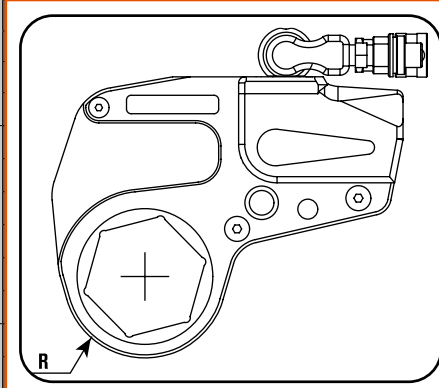
Tool Model	Hex Range (in.)	Min. Torque (ft. lbs.)	Max. Torque (ft. lbs.)	Weight (Body Only) (lbs.)
TWLC2	1.25 - 2.38	189	1,575	2.2
TWLC4	1.50 - 3.13	477	3,975	4.4
TWLC8	2.38 - 3.88	954	7,950	7.7
TWLC15	2.56 - 4.63	1,782	14,850	15.4
TWLC30	3.13 - 6.13	3,456	28,800	31.9



Special sizes available upon request.

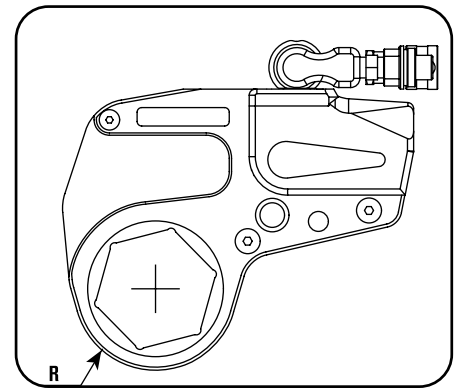
LOW CLEARANCE - REDUCERS								
Body	Link	Nut A/F	Reducer	Reducer	Reducer	Reducer	Reducer	Reducer
Order No.	Part No.	(in.)	(in.)	Part No.	(in.)	Part No.	(in.)	Part No.
TWLC2	TWL2-032	1.25	—	—	—	—	—	—
	TWL2-036	1.44	—	—	—	—	—	—
	TWL2-041	1.63	1.63 - 1.44	TWR2-041036	1.63 - 1.25	TWR2-041032	—	—
	TWL2-046	1.81	1.81 - 1.63	TWR2-046041	1.81 - 1.44	TWR2-046036	1.81 - 1.25	TWR2-046032
	TWL2-050	2.00	2.00 - 1.81	TWR2-050046	2.00 - 1.63	TWR2-050041	2.00 - 1.44	TWR2-050036
	TWL2-055	2.19	2.19 - 2.00	TWR2-055050	2.19 - 1.81	TWR2-055046	2.19 - 1.63	TWR2-055041
TWLC4	TWL2-060	2.38	2.38 - 2.19	TWR2-060055	2.38 - 2.00	TWR2-060050	2.38 - 1.81	TWR2-060046
	TWL4-041	1.63	1.63 - 1.44	TWR4-041036	1.63 - 1.25	TWR4-041032	—	—
	TWL4-046	1.81	1.81 - 1.63	TWR4-046041	1.81 - 1.44	TWR4-046036	1.81 - 1.25	TWR4-046032
	TWL4-050	2.00	2.00 - 1.81	TWR4-050046	2.00 - 1.63	TWR4-050041	2.00 - 1.44	TWR4-050036
	TWL4-055	2.19	2.19 - 2.00	TWR4-055050	2.19 - 1.81	TWR4-055046	2.19 - 1.63	TWR4-055041
	TWL4-060	2.38	2.38 - 2.19	TWR4-060055	2.38 - 2.00	TWR4-060050	2.38 - 1.81	TWR4-060046
	TWL4-065	2.56	2.56 - 2.38	TWR4-065060	2.56 - 2.19	TWR4-065055	2.56 - 2.00	TWR4-065050
	TWL4-070	2.75	2.75 - 2.56	TWR4-070065	2.75 - 2.38	TWR4-070060	2.75 - 2.19	TWR4-070055
TWLC8	TWL4-075	2.94	2.94 - 2.75	TWR4-075070	2.94 - 2.56	TWR4-075065	2.94 - 2.38	TWR4-075060
	TWL4-080	3.13	3.13 - 2.94	TWR4-080075	3.13 - 2.75	TWR4-080070	3.13 - 2.56	TWR4-080065
	TWL8-060	2.38	2.38 - 2.19	TWR8-060055	2.38 - 2.00	TWR8-060050	2.38 - 1.81	TWR8-060046
	TWL8-065	2.56	2.56 - 2.38	TWR8-065060	2.56 - 2.19	TWR8-065055	2.56 - 2.00	TWR8-065050
	TWL8-070	2.75	2.75 - 2.56	TWR8-070065	2.75 - 2.38	TWR8-070060	2.75 - 2.19	TWR8-070055
	TWL8-075	2.94	2.94 - 2.75	TWR8-075070	2.94 - 2.56	TWR8-075065	2.94 - 2.38	TWR8-075060
	TWL8-080	3.13	3.13 - 2.94	TWR8-080075	3.13 - 2.75	TWR8-080070	3.13 - 2.56	TWR8-080065
	TWL8-085	3.38	3.38 - 3.13	TWR8-085080	3.38 - 2.94	TWR8-085075	3.38 - 2.75	TWR8-085070
TWLC15	TWL8-090	3.50	3.50 - 3.38	TWR8-090085	3.50 - 3.13	TWR8-090080	3.50 - 2.94	TWR8-090075
	TWL8-095	3.75	3.75 - 3.50	TWR8-095090	3.75 - 3.38	TWR8-095085	3.75 - 3.13	TWR8-095080
	TWL8-100	3.88	3.88 - 3.75	TWR8-100095	3.88 - 3.50	TWR8-100090	3.88 - 3.38	TWR8-100085
	TWL15-070	2.75	2.75 - 2.56	TWR15-070065	2.75 - 2.38	TWR15-070060	2.75 - 2.19	TWR15-070055
	TWL15-075	2.94	2.94 - 2.75	TWR15-075070	2.94 - 2.56	TWR15-075065	2.94 - 2.38	TWR15-075060
	TWL15-080	3.13	3.13 - 2.94	TWR15-080075	3.13 - 2.75	TWR15-080070	3.13 - 2.56	TWR15-080065
	TWL15-085	3.38	3.38 - 3.13	TWR15-085080	3.38 - 2.94	TWR15-085075	3.38 - 2.75	TWR15-085070
	TWL15-090	3.50	3.50 - 3.38	TWR15-090085	3.50 - 3.13	TWR15-090080	3.50 - 2.94	TWR15-090075
	TWL15-095	3.75	3.75 - 3.50	TWR15-095090	3.75 - 3.38	TWR15-095085	3.75 - 3.13	TWR15-095080
	TWL15-100	3.88	3.88 - 3.75	TWR15-100095	3.88 - 3.50	TWR15-100090	3.88 - 3.38	TWR15-100085
TWLC30	TWL15-105	—	—	—	—	—	—	—
	TWL15-425	4.25	4.25 - 3.88	TWR15-425388	4.25 - 3.75	TWR15-425375	4.25 - 3.50	TWR15-425350
	TWL15-110	—	—	—	—	—	—	—
	TWL15-115	—	—	—	—	—	—	—
	TWL15-463	4.63	4.63 - 4.25	TWR15-463425	4.63 - 3.88	TWR15-463388	4.63 - 3.75	TWR15-463375
	TWL30-080	3.13	3.13 - 2.94	TWR30-080075	3.13 - 2.75	TWR30-080070	3.13 - 2.56	TWR30-080065
	TWL30-085	3.38	3.38 - 3.13	TWR30-085080	3.38 - 2.94	TWR30-085075	3.38 - 2.75	TWR30-085070
	TWL30-090	3.50	3.50 - 3.38	TWR30-090085	3.50 - 3.13	TWR30-090080	3.50 - 2.94	TWR30-090075
	TWL30-095	3.75	3.75 - 3.50	TWR30-095090	3.75 - 3.38	TWR30-095085	3.75 - 3.13	TWR30-095080
	TWL30-100	3.88	3.88 - 3.75	TWR30-100095	3.88 - 3.50	TWR30-100090	3.88 - 3.38	TWR30-100085
TWLC30	TWL30-105	—	—	TWR30-105100	—	TWR30-105095	—	TWR30-105090
	TWL30-425	4.25	4.25 - 3.88	TWR30-425388	4.25 - 3.75	TWR30-425375	4.25 - 3.50	TWR30-425350
	TWL30-110	—	—	—	—	—	—	—
	TWL30-115	—	—	—	—	—	—	—
	TWL30-463	4.63	4.63 - 4.25	TWR30-463425	4.63 - 3.88	TWR30-463388	4.63 - 3.75	TWR30-463375
	TWL30-120	—	—	—	—	—	—	—
	TWL30-500	5.00	5.00 - 4.63	TWR30-500463	5.00 - 4.25	TWR30-500425	5.00 - 3.88	TWR30-500388
	TWL30-130	—	—	—	—	—	—	—
	TWL30-135	5.38	5.38 - 5.00	TWR30-135125	5.38 - 4.63	TWR30-135120	5.38 - 4.25	TWR30-135115
	TWL30-145	5.75	—	—	—	—	—	—
TWLC30	TWL30-150	—	—	—	—	—	—	—
	TWL30-155	6.13	—	—	—	—	—	—
AVAILABLE UPON REQUEST								

Nut A/F (in.)	TWLC2					TWLC4					TWLC8				
	Link Order No.	Radius R	I	J	Weight (Link Only)	Link Order No.	Radius R	I	J	Weight (Link Only)	Link Order No.	Radius R	I	J	Weight (Link Only)
		(in.)	(in.)	(in.)	(lbs.)		(in.)	(in.)	(in.)	(lbs.)		(in.)	(in.)	(in.)	(lbs.)
1.13	TWL2-026	1.24	7.09	1.50	4.41	-					-				
1.06	TWL2-027					-									
1.13	TWL2-029					-									
1.19	TWL2-030					-									
1.25	TWL2-032					-									
1.31	TWL2-033	1.36	7.13	1.57	4.41	TWL4-033	1.44	8.94	2.09	8.82					
1.38	TWL2-035					TWL4-035									
1.44	TWL2-036					TWL4-036									
1.50	TWL2-150					TWL4-150									
1.56	TWL2-040					TWL4-040									
1.63	TWL2-041	1.46	7.20	1.57	4.41	TWL4-041	1.54	8.94	2.09	8.82					
1.69	TWL2-043					TWL4-043									
1.75	TWL2-044					TWL4-044									
1.81	TWL2-046					TWL4-046									
1.88	TWL2-188					TWL4-188									
1.94	TWL2-049	1.57	7.28	1.69	4.41	TWL4-049	1.65	8.94	2.09	8.82	TWL8-188	1.99	10.79	3.03	15.43
2.00	TWL2-050					TWL4-050					TWL8-049				
2.06	TWL2-052					TWL4-052					TWL8-050				
2.13	TWL2-054					TWL4-054					TWL8-052				
2.19	TWL2-055					TWL4-055					TWL8-054				
2.25	TWL2-057	1.79	7.28	1.69	4.41	TWL4-225	1.75	8.94	2.09	8.82	TWL8-055	2.09	10.79	3.03	16.53
2.31	TWL2-059					TWL4-059					TWL8-057				
2.38	TWL2-060					TWL4-060					TWL8-059				
2.44	-					TWL4-062					TWL8-060				
2.50	-					TWL4-063					TWL8-062				
2.56	-	1.97	8.94	2.09	8.82	TWL4-065	1.97	8.94	2.09	8.82	TWL8-063	2.20	10.79	3.03	16.53
2.63	-					TWL4-067					TWL8-065				
2.69	-					TWL4-068					TWL8-067				
2.75	-					TWL4-070					TWL8-068				
2.81	-					TWL4-071					TWL8-070				
2.88	-	2.09	9.02	2.20	8.82	TWL4-073	2.19	9.02	2.20	9.92	TWL8-071	2.30	10.79	3.03	16.53
2.94	-					TWL4-075					TWL8-073				
3.00	-					TWL4-077					TWL8-075				
3.06	-					TWL4-313					TWL8-077				
3.13	-					TWL4-080					TWL8-313				
3.19	-	2.32	9.06	2.28	9.92	-	2.32	9.06	2.28	9.92	TWL8-080	2.44	10.91	2.83	17.64
3.25	-					-					TWL8-081				
3.31	-					-					TWL8-083				
3.38	-					-					TWL8-084				
3.44	-					-					TWL8-085				
	-	2.64	10.91	2.83	17.64	-	2.64	10.91	2.83	17.64	TWL8-087	2.64	10.91	2.83	17.64
	-					-					TWL8-089				
3.50	-					-					TWL8-090				
3.56	-					-					TWL8-091				
3.63	-					-					TWL8-092				
3.69	-	2.89	10.91	2.83	7.64	-	2.89	10.91	2.83	7.64	TWL8-094	2.89	10.91	2.83	7.64
3.75	-					-					TWL8-095				
3.81	-					-					TWL8-097				
	-					-					TWL8-388				
3.88	-					-					TWL8-100				


NOTE:

The sizes listed on these pages encompass both heavy hex and standard hex nut sizes.
 Check your local SPX FLOW Power Team Office for availability as some items may be special order.

Nut A/F	TWLC15					TWLC30					Nut A/F	TWLC30 (Continued)				
	Link Order No.	Radius R	I	J	Weight (Link Only)	Link Order No.	Radius R	I	J	Weight (Link Only)		Link Order No.	Radius R	I	J	Weight (Link Only)
(in.)		(in.)	(in.)	(in.)	(lbs.)		(in.)	(in.)	(in.)	(lbs.)	(in.)		(in.)	(in.)	(in.)	(lbs.)
2.44	TWL15-062	2.38	12.32	3.46	27.56	-					4.81	TWL30-122	3.90	15.75	4.29	62.83
2.50	TWL15-063					-					TWL30-123					
2.56	TWL15-065					-					4.88	TWL30-124				
2.63	TWL15-067					-					4.94	TWL30-125				
2.69	TWL15-068					-					5.00	TWL30-500				
2.75	TWL15-070	2.48	12.32	3.46	27.56	-					5.06	TWL30-129	4.13	15.75	4.29	62.83
2.81	TWL15-071					-					5.13	TWL30-130				
2.88	TWL15-073					-					5.19	TWL30-132				
2.94	TWL15-075					-					5.25	TWL30-133				
3.00	TWL15-077	-	5.38	TWL30-135												
3.06	TWL15-313	2.62	12.32	3.46			28.66	-	TWL30-538							
3.13	TWL15-080	2.83	12.32	3.46			29.76	TWL30-080	3.03	15.47			4.09	58.42		
3.19	TWL15-081							TWL30-081								
3.25	TWL15-083				TWL30-083											
3.31	TWL15-084				TWL30-084											
3.38	TWL15-085				TWL30-085											
3.44	TWL15-087				TWL30-087											
	TWL15-089				TWL30-089											
3.50	TWL15-090				TWL30-090											
3.56	TWL15-091	3.07	12.44	3.15	29.76	TWL30-091	3.27	15.47	4.09	58.42						
3.63	TWL15-092					TWL30-092										
3.69	TWL15-094					TWL30-094										
3.75	TWL15-095					TWL30-095										
3.81	TWL15-097					TWL30-097										
	TWL15-388					TWL30-388										
3.88	TWL15-100					TWL30-100										
4.00	TWL15-102					3.25					12.44	3.15	30.86	TWL30-102	3.50	15.47
4.06	TWL15-103	TWL30-103														
4.13	TWL15-105	TWL30-105														
4.19	TWL15-106	TWL30-106														
4.25	TWL15-425	TWL30-425														
4.31	TWL15-110	3.44	12.44	3.15	30.86	TWL30-110	3.62	15.47	4.09	60.63						
4.38	TWL15-111					TWL30-111										
4.44	TWL15-113					TWL30-113										
4.50	TWL15-114					TWL30-114										
	TWL15-115					TWL30-115										
4.56	TWL15-116					TWL30-116										
4.63	TWL15-463					TWL30-463										
4.69	-										TWL30-119	3.90	15.75	4.29	62.83	
4.75	-					TWL30-120										

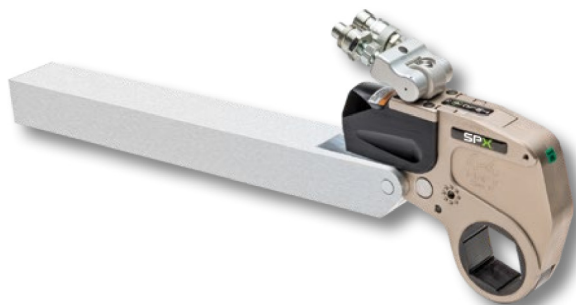


TO SPECIFY A TWLC SOLUTION:

1. Find a link for your application (nut size)
2. Choose the appropriate drive body
3. Add reducers for additional nut sizes

NOTE: Please order Drive Body and Link separately and pay attention to the same size, for Example TWLC2 and TWL2-041.

TWLC REACTION BAR TWLC-RB



Features

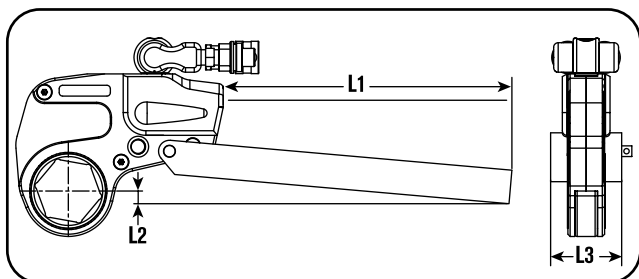
- In-Line Extension Reaction Bar for TWLC wrenches allows extended reach on the same plane
- Pin engagement, no tools required
- Available for full range of tool sizes



Reaction Accessories

Power Team offers a varied range of alternative and optional reaction accessories which help to find a reaction point solution no matter how unusual the bolted application is.

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)
TWLC2	TWLC2-RB	15.00	1.10	2.17
TWLC4	TWLC4-RB	18.00	1.38	2.60
TWLC8	TWLC8-RB	18.00	1.46	3.35
TWLC15	TWLC15-RB	20.00	1.57	4.01
TWLC30	TWLC30-RB	20.00	1.38	5.00

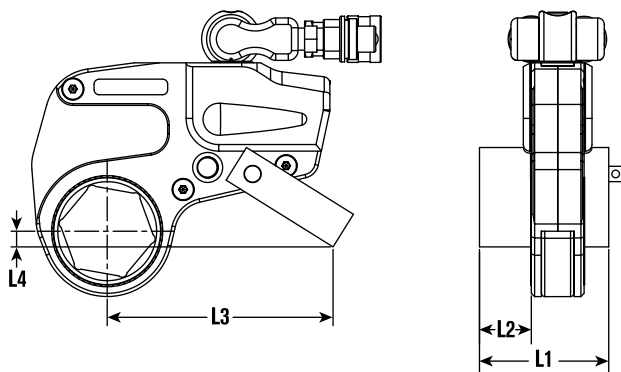
TWLC REACTION PADDLE TWLC-RP



Features

- Off-Set Reaction Arm for TWLC wrenches allows off-set reaction within wrench profile
- Pin engagement, no tools required
- Light alloy construction
- Available for full range of tool

Ordering Information



Tool Ref	Order No.	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)
TWLC2	TWLC2-RP	3.31	1.38	5.59	0.51
TWLC4	TWLC4-RP	4.29	1.81	7.01	0.75
TWLC8	TWLC8-RP	5.37	2.25	8.66	1.02
TWLC15	TWLC15-RP	6.50	2.76	9.92	1.77
TWLC30	TWLC30-RP	7.874	3.39	12.48	1.73

HAVE A UNIQUE APPLICATION?
DOES STANDARD PRODUCT NOT FIT?



CUSTOM REACTION PADS AND REDUCERS ARE AVAILABLE.

Contact SPX FLOW, or an authorized Power Team distributor, for more details!

Model Shown:

TWSL4-046 Link (left) & TWSL4-060
Link with TWLC4 Drive Body (right)



Features

ENGINEERED TO FIT INACCESSIBLE APPLICATIONS WITH MINIMAL CLEARANCE.

- Dynamic engineering modeling (Finite Element Analysis and optimized tool design to extend life and durability).
- The SlimLine links use the same quick change Drive Body as the existing TWLC links
- Small nose radius, fits all standard API and ANSI flanges.
- Rigid steel body construction with corrosion resistant plating.
- Fully-enclosed drive mechanism for operator safety.
- Swivel manifold has an internal relief valve to prevent retract side over-pressurization.
- Multi-axis swivel technology for free positioning of tool and hoses.

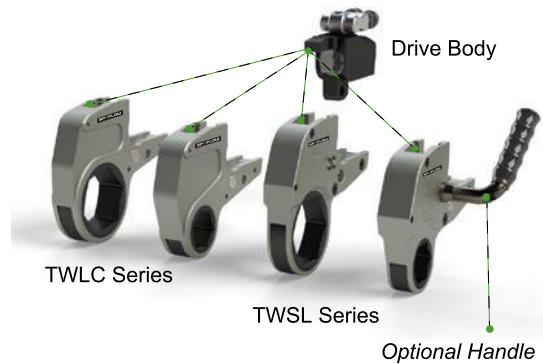


Other Related Items

Contact your nearest Power Team sales representative for assistance in sizing the proper tool for your application, or go to powerteam.com website for details about other available link sizes not listed.



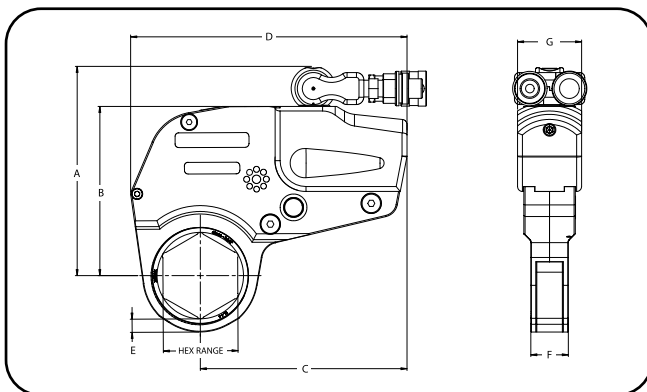
Drive Body interchanges with the TWLC & TWSL link sizes



Order #: DFTAS000001 for TWSL2
DFTAS000002 for TWSL4

The Drive Body is designed to interchange with the TWLC (Low Clearance) and the new TWSL (SlimLine) Links, lowering your tool investment across each series to broaden your application reach.

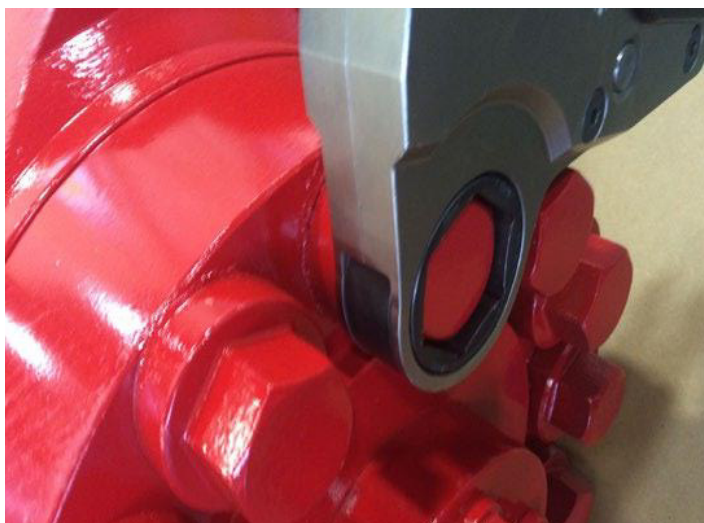
Handle can be mounted to either Link or Drive Body.
TWLC4 only - use adaptor DFTHA000003 to mount handle to drive body



Technical Dimensions

Order No.	A	B	C	D	E	F	G
	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
TWSL2	5.71	4.49	5.04	7.26	0.35	0.98	1.65
TWSL4	6.61	5.39	6.61	8.83	0.42	1.20	2.04

Technical Fit Overview

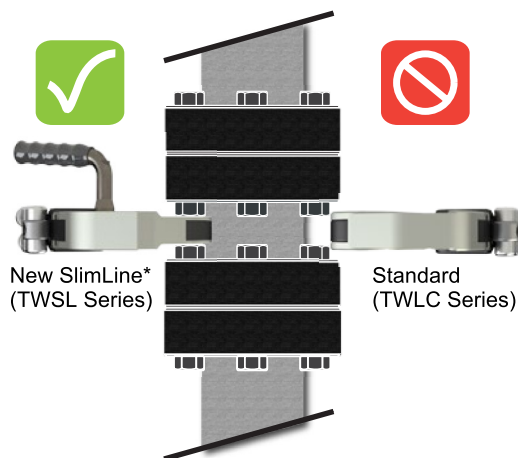


- The TWSL's narrow width and reduced radius design enables the tool to fit into tight areas where standard low clearance links cannot.



SlimLine Application Range

Due to the compact design, the maximum torque of the TWSL links vary depending on link size, reference the information below for complete details.



* Shown with optional handle, order # DFTAS000001 for TWSL2, DFTAS000002 for TWSL4.

Torque Wrench Drive Body Ordering Information for SlimLine

Drive Body Order No.	Hex Range for SlimLine		SlimLine Min. Torque (ft. lbs.)	SlimLine Max. Torque (ft. lbs.)	Weight (Link Only) (lbs.)
	(in.)	(in.)			
TWLC2	1.13	2.38	222	1,240 - 1,850	2.2
TWLC4	1.81	3.13	505	2,639 - 4,210	4.4

Note: Links are sold separately from the drive body, refer to the tables below.

Torque Wrench Link Ordering Information for SlimLine

Link Order No.	Hex Range for SlimLine		SlimLine Min. Torque (ft. lbs.)	SlimLine Max. Torque (ft. lbs.)	Weight (Link Only) (lbs.)
	(in.)	(in.)			
TWSL2-#	1.13	2.38	222	1,240 - 1,850	4.2 - 4.5
TWSL4-#	1.81	3.13	505	2,639 - 4,210	8.0 - 8.4

Note: The “#” suffix will be replaced with the actual link size in a numeric value.

TWSL2 SlimLine Link Reference Table*

Nut A/F (in.)	Link Order No.	Max. Torque (ft. lbs.)	Weight (Link Only) (lbs.)
1.25	TWSL2-032	1,240	4.1
1.44	TWSL2-036	1,430	4.2
1.63	TWSL2-041	1,600	4.3
1.81	TWSL2-046	1,850	4.3
2.00	TWSL2-050	1,850	4.3
2.19	TWSL2-055	1,850	4.4
2.38	TWSL2-060	1,850	4.4

TWSL4 SlimLine Link Reference Table*

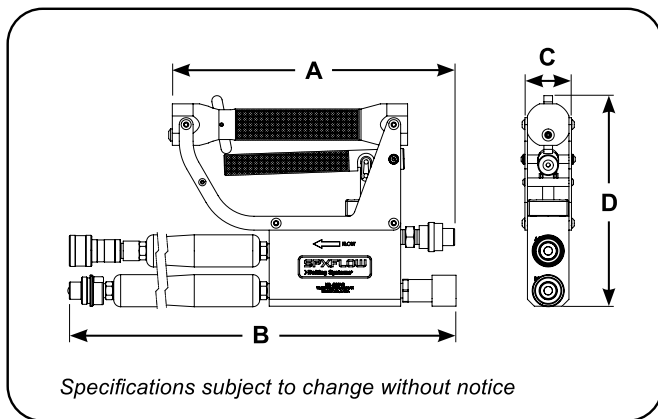
Nut A/F (in.)	Link Order No.	Max. Torque (ft. lbs.)	Weight (Link Only) (lbs.)
1.81	TWSL4-046	2,639	8.0
2.00	TWSL4-050	3,271	8.2
2.19	TWSL4-055	3,568	8.2
2.38	TWSL4-060	3,867	8.3
2.56	TWSL4-065	4,210	8.4
2.75	TWSL4-070	4,210	8.4
2.94	TWSL4-075	4,210	8.4
3.13	TWSL4-080	4,210	8.4

Model Shown:
400148



Features

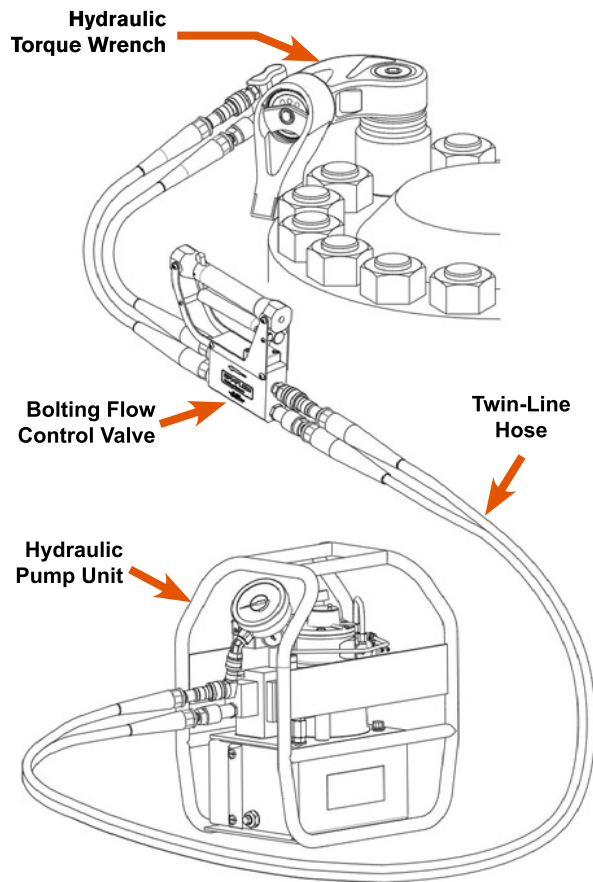
- Pressure balanced spool mechanism allowing for easier trigger pull/squeeze effort (fatigue reduction)
- Two-stage trigger system (interlock and trigger) preventing accidental operation/advancement of the tool
- 2:1 Safety Factor (pressure test min 20,000 psi)
- Can be used with any hydraulic torque wrench



Tools

Ordering Information

Order No.	A	B	C	D	Prod. Wt.
	(in.)	(in.)	(in.)	(in.)	(lbs.)
4000148	10.382	30.75	1.883	7.609	6.19



BOLTING FLOW CONTROL VALVE

- ▶ Allows the operator to position the torque wrench with zero risk of entrapment or nipped fingers
- ▶ Suitable for hydraulic tool applications where local isolation and operator control is required
- ▶ Isolates the wrench whilst operator carries out drive direction changes, link switch over on low profile tools

▶ Other Related Items



Pumps



Wrenches



Hoses

Refer to the Bolting Systems catalog or website for more details.

Model Shown:
PE30TWP



Features

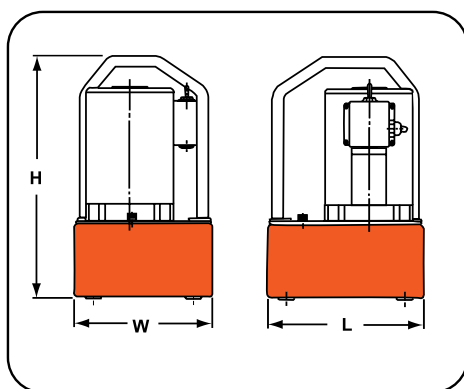
VANGUARD® ELECTRIC HYDRAULIC TORQUE WRENCH PUMPS.

- Two-speed general duty pump.
- External adjustable pressure regulator.
- Retract side internal relief valve protects tool.
- Hand remote control with 20 ft. cord.
- Use for single or double-acting tools.



CAUTION

THIS PUMP SHOULD NOT BE USED FOR LIFTING APPLICATIONS, IT'S DESIGN FOR TORQUE WRENCH APPLICATIONS ONLY.



Tools

Ordering Information

Order No.	Width	Length	Height	Electric Motor	Oil Delivery per min.	Oil Reservoir Cap.	Usable Oil	Prod. Wt.
	(in.)	(in.)	(in.)	(4,000 rpm)	(cu. in.)	(gal.)	(cu. in.)	(lbs.)
PE30TWP	13.82	13.13	16.62	1 hp, 115VAC / 60Hz, 13 amps		1.25	280	68.00
PE30TWP-E110*	13.82	13.13	16.62	110VAC / 50Hz, 13 amps	300 @ 100 psi	1.25	280	68.00
PE30TWP-E220*	13.82	13.13	16.62	220VAC / 50Hz, 7 amps	30 @ 10,000 psi	1.25	280	68.00

* CE Approved - designed for 50 Hz applications

Model Shown:

PE55TWP-4-BS, PE55TWP-BS



Features

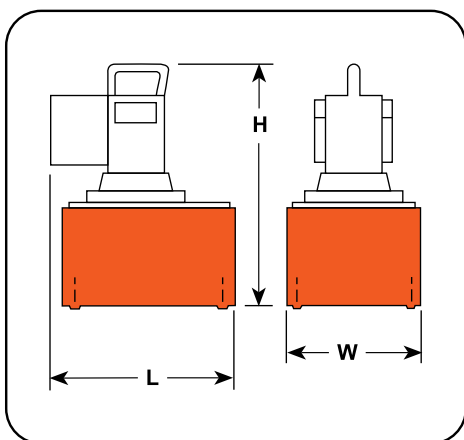
VANGUARD® ELECTRIC HYDRAULIC TORQUE WRENCH PUMPS.

- Two-speed high-performance pump.
- External adjustable pressure regulator
- Retract side internal relief valve protects tool.
- Hand remote control with 20 ft. cord.
- Use for single or double-acting tools.
- Four-tool manifold allows use of up to four tools simultaneously.



CAUTION

THIS PUMP SHOULD NOT BE USED FOR LIFTING APPLICATIONS, IT'S DESIGN FOR TORQUE WRENCH APPLICATIONS ONLY.



Ordering Information

Order No.	Width (in.)	Length (in.)	Height (in.)	Electric Motor (12,000 rpm)	No. of Tools	Oil Delivery per min. (cu. in.)	Oil Reservoir Cap. (gal.)	Usable Oil (cu. in.)	Prod. Wt. (lbs.)
PE55TWP-BS	9.50	17.14	18.12	110/115VAC, 50/60 Hz, 25A	1	704 in³ @ 100 psi 56 in³ @ 10,000 psi	2.50	324	75.00
PE55TWP-220-BS	9.50	17.14	18.12	220/230VAC, 50/60 Hz, 13A	1		2.50	324	75.00
PE55TWP-E110*	9.50	17.14	18.12	110VAC, 50 Hz, 25A	1		1.25	324	75.00
PE55TWP-E220*	9.50	17.14	18.12	220VAC, 50 Hz., 13A	1		1.25	324	75.00
PE55TWP-4-BS	9.50	17.14	18.12	110/115V, 50/60 Hz, 25A	4	704 in³ @ 100 psi 56 in³ @ 10,000 psi	2.50	324	78.00
PE55TWP-4-CF-BS	12.80	17.50	18.70	110/115V, 50/60 Hz, 25A	4		2.50	324	83.00
PE55TWP-4-220-BS	9.50	18.49	19.15	220/230VAC, 50/60 Hz, 13A	4		2.50	324	78.00
PE55TWP-4-E110*	9.50	18.49	19.15	110VAC, 50 Hz, 25A	4		1.25	324	78.00
PE55TWP-4-E220*	9.50	18.49	19.15	220VAC, 50 Hz., 13A	4		1.25	324	78.00

* CE Approved - designed for 50 Hz applications

Pump models with -BS suffix are supplied with black reservoir and Bolting Systems branding

Model Shown:

RWP55-4-BS-R



Features

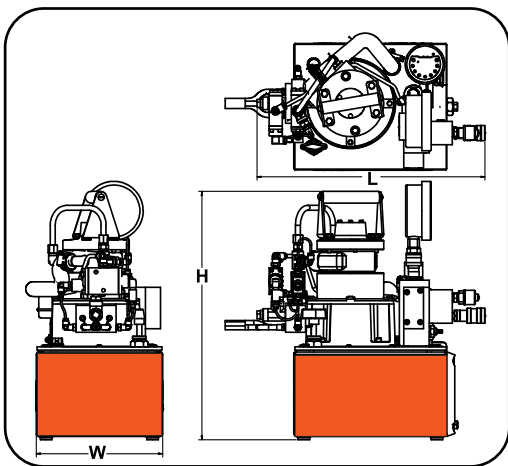
AIR HYDRAULIC TORQUE WRENCH PUMP

- Use where air is the preferred source of power.
- Powerful 3 hp motor starts under load.
- External adjustable pressure regulator.
- Retract side internal relief valve protects tools.
- Use for single or double-acting tools.
- Four-tool manifold allows use of up to four tools simultaneously.
- 25 ft. pneumatic remote controller included.



CAUTION

THIS PUMP SHOULD NOT BE USED FOR LIFTING APPLICATIONS, IT'S DESIGN FOR TORQUE WRENCH APPLICATIONS ONLY.



Tools

Ordering Information

Order No.	Width (in.)	Length (in.)	Height (in.)	Air Motor	No. of Tools	Oil Delivery per min. (cu. in.)	Oil Reservoir Cap. (gal.)	Usable Oil (cu. in.)	Prod. Wt. (lbs.)
RWP55-BS	9.50	16.55	19.83	3HP, 50 cfm @ 80 psi	1	465 in ³ @ 100 PSI 55 in ³ @ 10,000 PSI	2.50	324	98.00
RWP55-BS-R	11.90	18.70	21.00	3HP, 50 cfm @ 80 psi	1	465 in ³ @ 100 PSI 55 in ³ @ 10,000 PSI	2.50	324	103.00
RWP55-4-BS	9.50	16.55	19.83	3HP, 50 cfm @ 80 psi	4	465 in ³ @ 100 PSI 55 in ³ @ 10,000 PSI	2.50	324	101.00
RWP55-4-BS-R	11.90	18.70	21.00	3HP, 50 cfm @ 80 psi	4	465 in ³ @ 100 PSI 55 in ³ @ 10,000 PSI	2.50	324	106.00

Pumps supplied with black reservoir and Bolting Systems branding. For Roll Cage, add -R, after Order No.