SIMPLEX HYDRAULIC TORQUE WRENCHES

■ Wide Variety

Simplex offers a wide variety of hydraulic torque wrenches available in light weight square drive design or the flattest low clearance wrenches available. These tools are the most versatile in the business. Optional attachments and accessories are available to complement both style wrenches.

■ WT-Series Square Drive Wrenches

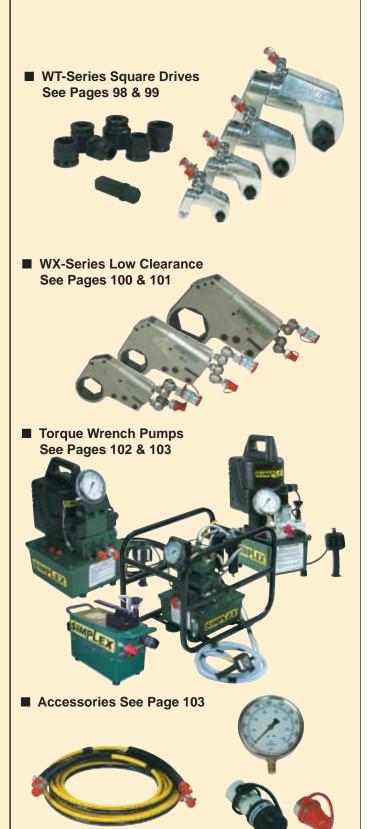
The Simplex square drive wrench combines strength and simplicity to handle the toughest bolting jobs. Simplex square drive wrenches come with a push through drive in the 3/4", 1" and 1 1/2" models, eliminating pulling the drive out of a wrench to change drive direction. The WT-Series wrenches can react off the wrench body for close quarter applications. Several optional accessories are available.

■ WX-Series Low Clearance Wrenches

Simplex Low Clearance wrenches are the flattest wrench available, utilizing a patented low height piston. The Simplex WX series wrenches fit in places competitive wrenches cannot. The low clearance wrenches have a wide choice of links available in 1/16" increments. Metric sizes are also available. Several optional accessories are available such as hex reducers, hex to square drive adaptors and different reaction arms.

■ Torque Wrench Pumps and Accessories

Simplex torque wrench pumps are available in both electric and air power. Simplex electric pumps are smooth running, continuous duty pumps with permanent magnet motors that will start and run under full load on as little as 60 VAC. An integrated auto shut-off switch, along with aluminum reservoir, keep the oil and pump cool and helps prevent pump breakdown. Hoses are twin style with a 4:1 safety factor and the pump mounted gauge reads out in 100 psi increments.



TORQUE WRENCHES SQUARE DRIVE WRENCHES



- Harden alloy square drive <u>provides long life</u>.
- No reaction pawl, <u>ELIMINATES</u> tool lockup.
- 27° Stroke for high performance and speed.
- Torque chart & safety information engraved on the tool.
- Push through square drive switches from loosen to tighten instantly.
- Light weight, high torque ratio.
- Compact Uni-Body design for maximum strength.
- Accurate to within ½ 3%.
- Slim nose radius for easy positioning in close quarters.
- No leak couplers that swivel on double axis for easy operation.
- Custom wrenches available upon request.
- Special reaction arms and reaction arm extensions available.
- Anti-backlash mechanism prevents tool from backdriving.
- Internal reaction arm spline allows operator to react against the tool body without risk of damage.



When roller coasters at a popular theme park needed maintenance, park engineers called on Simplex for solutions. Assembly of a critical drive shaft required precision torquing and minimal down time. Simplex power units and square drive wrenches filled the park's needs, saving significant cost and down time.



Do Not React

SIMPLEX



Rail car shock mounting bolts require fast & accurate torquing for change out & maintenance. This rail car maintenance shop relies on a Simplex torque wrench to quickly & easily torque bolts to demanding railroad specifications. "The compact size fits where other wrenches would not & provides more than enough power to do the job right."

SQUARE DRIVE WRENCH SPECIFICATIONS

JUUAI	SQUARE DRIVE WRENCH SPECIFICATIONS														
Model	Α	В	С	D	E	F	G	Н	. 1	Wgt.			Available	Available	
Number	Length	Length	Height	Width	Width	Width	Radius	Height	Length	(lbs.)	(ft./lbs.)	Drive	Socket	Socket	
	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)			(in.)	Size	Size	
													(in.)	(mm)	
WT-2	4.68	6.10	4.20	2.00	2.76	4.42	0.98	3.42	5.32	3.90	1,270	3/4	1/2 - 2 3/8	13 - 60	
WT-3	6.10	8.10	5.30	2.62	3.68	5.81	1.30	4.54	6.68	9.00	3,330	1	3/4 - 4 1/2	19 - 114	
WT-5	8.00	10.74	6.99	3.61	5.06	7.98	1.70	6.05	9.48	19.00	7,170	1 1/2	1 5/16 - 5 3/8	33 - 137	
WT-10	9.21	12.21	7.79	3.93	5.43	8.72	1.95	6.70	10.36	29.00	11,010	1 1/2	1 3/10 - 3 3/0	33 - 137	
WT-27	12.29	16.29	10.19	5.26	7.73	11.63	2.43	8.82	13.87	70.00	27,200	2 1/2	1 5/8 - 9 1/4	41 - 235	

TORQUE WRENCHES

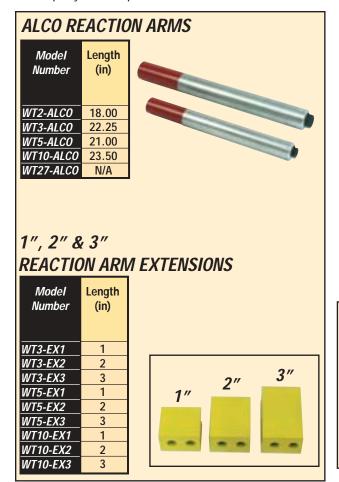


SOCKETS FOR 3/4", 1" & 1 1/2" DRIVE WRENCHES

Model	Socket	Model	Socket	Model	Socket	Model	Socket	Model Number	Socket	Model Number	Socket
Number for	Size	Number for	Size	Number for	Size	Number for		for 1 1/2" Drive		for 1 1/2" Drive	Size
3/4" Drive	(in.)	1" Drive	(in.)	1" Drive	(in.)	1" Drive	(in.)	WT-5 & 10	(in.)	WT-5 & 10	(in.)
WT-2 Wrench		WT-3 Wrench		WT-3 Wrench	` ′	WT-3 Wrench	, ,	Wrench	` ′	Wrench	` '
WST1212	3/4 x 3/4	WST1612	1 x 3/4	WST1633	1 x 2 1/16	WST1654	1 x 3 3/8	WST2422	1 1/2 x 1 3/8	WST2443	1 1/2 x 2 11/16
WST1213	3/4 x 13/16	WST1613	1 x 13/16	WST1634	1 x 2 1/8	WST1655	1 x 3 7/16	WST2423	1 1/2 x 1 7/16	WST2444	1 1/2 x 2 3/4
WST1214	3/4 x 7/8	WST1614	1 x 7/8	WST1635	1 x 2 3/16	WST1656	1 x 3 1/2	WST2424	1 1/2 x 1 1/2	WST2445	1 1/2 x 2 13/16
WST1215	3/4 x 15/16	WST1615	1 x 15/16	WST1636	1 x 2 1/4	WST1657	1 x 3 9/16	WST2425	1 1/2 x 1 9/16	WST2446	1 1/2 x 2 7/8
WST1216	3/4 x 1	WST1616	1 x 1	WST1637	1 x 2 5/16	WST1658	1 x 3 5/8	WST2426	1 1/2 x 1 5/8	WST2447	1 1/2 x 2 15/16
WST1217	3/4 x 1 1/16	WST1617	1 x 1 1/16	WST1638	1 x 2 3/8	WST1659	1 x 3 11/16	WST2427	1 1/2 x 1 11/16	WST2448	1 1/2 x 3
WST1218	3/4 x 1 1/8	WST1618	1 x 1 1/8	WST1639	1 x 2 7/16	WST1660	1 x 3 3/4	WST2428	1 1/2 x 1 3/4	WST2449	1 1/2 x 3 1/16
WST1219	3/4 x 1 3/16	WST1619	1 x 1 3/16	WST1640	1 x 2 1/2	WST1661	1 x 3 13/16	WST2429	1 1/2 x 1 13/16	WST2450	1 1/2 x 3 1/8
WST1220	3/4 x 1 1/4	WST1620	1 x 1 1/4	WST1641	1 x 2 9/16	WST1662	1 x 3 7/8	WST2430	1 1/2 x 1 7/8	WST2451	1 1/2 x 3 3/16
WST1221	3/4 x 1 5/16	WST1621	1 x 1 5/16	WST1642	1 x 2 5/8			WST2431	1 1/2 x 1 15/16	WST2452	1 1/2 x 3 1/4
WST1222	3/4 x 1 3/8	WST1622	1 x 1 3/8	WST1643	1 x 2 11/16			WST2432	1 1/2 x 2	WST2453	1 1/2 x 3 5/16
WST1223	3/4 x 1 7/16	WST1623	1 x 1 7/16	WST1644	1 x 2 3/4			WST2433	1 1/2 x 2 1/16	WST2454	1 1/2 x 3 3/8
WST1224	3/4 x 1 1/2	WST1624	1 x 1 1/2	WST1645	1 x 2 13/16			WST2434	1 1/2 x 2 1/8	WST2455	1 1/2 x 3 7/16
WST1225	3/4 x 1 9/16	WST1625	1 x 1 9/16	WST1646	1 x 2 7/8			WST2435	1 1/2 x 2 3/16	WST2456	1 1/2 x 3 1/2
WST1226	3/4 x 1 5/8	WST1626	1 x 1 5/8	WST1647	1 x 2 15/16			WST2436	1 1/2 x 2 1/4	WST2457	1 1/2 x 3 9/16
WST1227	3/4 x 1 11/16	WST1627	1 x 1 11/16	WST1648	1 x 3			WST2437	1 1/2 x 2 5/16	WST2458	1 1/2 x 3 5/8
WST1228	3/4 x 1 3/4	WST1628	1 x 1 3/4	WST1649	1 x 3 1/16			WST2438	1 1/2 x 2 3/8	WST2459	1 1/2 x 3 11/16
WST1229	3/4 x 1 13/16	WST1629	1 x 1 13/16	WST1650	1 x 3 1/8			WST2439	1 1/2 x 2 7/16	WST2460	1 1/2 x 3 3/4
WST1230	3/4 x 1 7/8	WST1630	1 x 1 7/8	WST1651	1 x 3 3/16			WST2440	1 1/2 x 2 1/2	_	
WST1231	3/4 x 1 15/16	WST1631	1 x 1 15/16	WST1652	1 x 3 1/4			WST2441	1 1/2 x 2 9/16		
WST1232	3/4 x 2	WST1632	1 x 2	WST1653	1 x 3 5/16			WST2442	1 1/2 x 2 5/8		

Impact Rated 6 point sockets are available from Simplex.

To order specify both the square drive size and the socket size or determine the Simplex part number from the chart above.





To order, specify both the type of WT-Series Wrench and the Allen head size. Additional Allen sizes are available in both imperial and metric sizes.

Allen Hex Drives Use The Standard Reaction Arm. No Additional Reaction Equipment Is Required.

ALLEN HEX DRIVES FOR WT-SERIES WRENCHES

Model Number	Wrench Model	Allen Hex Size (in.)	Maximum Torque (ft./lbs)
WA-1208		1/2	395
WA-1210		5/8	740
WA-1212	WT-2	3/4	1,270
WA-1214		7/8	1,270
WA-1216		1	1,270
WA-1610		5/8	740
WA-1612		3/4	1,330
WA-1614	WT-3	7/8	2,070
WA-1616		1	3,100
WA-1618		1 1/8	3,330
WA-1620		1 1/4	3,330
WA-2414		7/8	2,070
WA-2416		1	3,100
WA-2418	WT-5	1 1/8	4,355
WA-2420	W1-3	1 1/4	6,275
WA-2422		1 3/8	7,170
WA-2424		1 1/2	7,170
WA-2420-10		1 1/4	6,275
WA-2422-10		1 3/8	7,750
WA-2424-10	WT-10	1 1/2	10,500
WA-2426-10		1 5/8	10,500
WA-2428-10		1 3/4	10,500
WA-4024		1 1/2	10,500
WA-4026	_	1 5/8	13,280
WA-4028	WT-27	1 3/4	16,230
WA-4030	VV 1-2/	1 7/8	27,200
WA-4032		2	27,200
WA-4036		2 1/4	27,200

LOW CLEARANCE WRENCHES



- Wide range of links in 1/16" increments.
- In-line reaction for maximum strength.
- Light weight, high torque ratio.
- Quick and easy interchangeable links requiring no tools.
- Accurate to within †3%.
- Slim nose radius for easy positioning in close quarters.
- No leak couplers that swivel on double axis for easy operation.
- Plated wrenches resist corrosion.
- Links in both imperial and metric measurements.
- Optional reducer inserts available in imperial and metric sizes.
- Custom wrenches available upon request.

Optional Wrench Handle Optional handles are available for the WX-8, WX-16 & WX-32. The handle can be screwed on either side of the wrench or on top of the wrench. Order #: WCH-1

"Simplex Low Clearance Torque Wrenches" are the thinest while having the highest torque output available on the market. A patented "flat" cylinder design allows Simplex drive units to fit in the tightest spaces when other wrenches cannot. Light weight construction allows easy carrying and positioning.



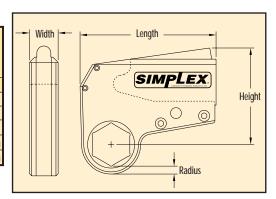
In-line reaction and compact design allows quick and easy torquing in close quarters.

I OW CI FARANCE DRIVE UNITS

LOUD	<i>LL/11</i>	W 17 10	LDN	IVL	11110	
Model Number	Length (in.)	Height (in.)	Radius (in.)		Output (ft./lbs.)	*Weight (lbs.)
WX-2	5.67	4.00	0.36	1.25	1,930	3.5
WX-4	7.80	5.60	0.46	1.63	3,950	6
WX-8	9.80	7.00	0.54	2.05	8,630	11.7
WX-16	11.90	8.50	0.76	2.45	15,600	16
WX-32	15.30	10.90	0.93	3.24	31,600	34

Weights are for Drive	Units only.	Weight on	Links will	vary by size.
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Available Link Sizes (in./mm)							
From	То						
3/4"/19mm	2 3/8"/60mm						
1"/25mm	3 1/8"/80mm						
1 7/8"/50mm	4"/90mm						
2 5/8"/65mm	4 5/8"/115mm						
3 1/8"/80mm	6 1/8"/155mm						

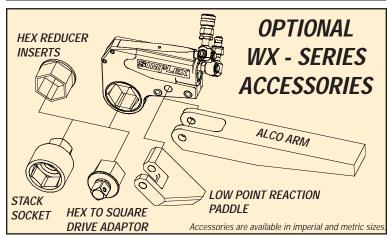


LOW CLEARANCE WRENCHES

HOW TO BUILD YOUR LOW CLEARANCE WRENCH



- Select a WX drive unit that will give you the amount of torque you are looking for.
- 2. Couple your WX drive unit with the WXL hex link that you will need. See chart below for specific WXL link.





When this power plant needed flange maintenance, engineers called on Simplex for solutions. Changing out flange seals requires precision torquing and minimal down time. Simplex power units and low clearance wrenches filled the plant's needs, saving significant cost and down time.

LINKS FOR LOW CLEARANCE WRENCHES

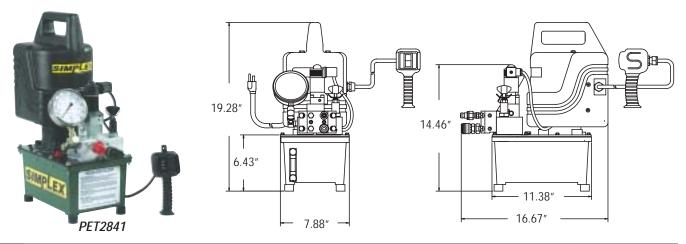
Model Number Hex Size (in.) Model For WX-2 Links Hex Number Model Size (in.) Hex Number (in.) Model Size (in.) Hex Number (in.) Model Size (in.) Hex Number (in.) Model Size (in.) Hex Number (in.) Model Number (in.) Hex Number (in.) Model Number	Size (in.) s 5 7/16
for WX-2 Links (in.) Links for WX-4 (in.) Links for WX-8 (in.) Links (in.) Links for WX-8 (in.) Links for WX-8 (in.) Links for WX-16 (in.) Links for WX-32 (in.) Links for WX-16 Links WXL2-12 3/4 WXL4-16 1 WXL4-43 2 11/16 WXL8-30 1 7/8 WXL8-57 3 9/16 WXL16-42 2 5/8 WXL32-50 3 1/8 WXL32-50 3 1/8 WXL32-50 3 3/16 WXL32-50	(-32 (in.) s 5 7/16
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WXL2-13 13/16 WXL4-17 1 1/16 WXL4-44 2 3/4 WXL8-31 1 15/16 WXL8-58 3 5/8 WXL16-43 2 11/16 WXL32-51 3 3/16 WXL32	
	88 5 1/2
WXL2-14 7/8 WXL4-18 1 1/8 WXL4-45 2 13/16 WXL8-32 2 WXL8-59 3 11/16 WXL16-44 2 3/4 WXL32-52 3 1/4 WXL32	
	- <i>89</i> 5 9/16
WXL2-15 15/16 WXL4-19 1 3/16 WXL4-46 2 7/8 WXL8-33 2 1/16 WXL8-60 3 3/4 WXL16-45 2 13/16 WXL32-53 3 5/16 WXL32	
WXL2-16 1 WXL4-20 1 1/4 WXL4-47 2 15/16 WXL8-34 2 1/8 WXL8-61 3 13/16 WXL16-46 2 7/8 WXL32-54 3 3/8 WXL32	- 91 5 11/16
WXL2-17 1 1/16 WXL4-21 1 5/16 WXL4-48 3 WXL8-35 2 3/16 WXL8-62 3 7/8 WXL16-47 2 15/16 WXL32-55 3 7/16 WXL32	-92 5 3/4
WXL2-18 1 1/8 WXL4-22 1 3/8 WXL4-49 3 1/16 WXL8-36 2 1/4 WXL8-63 3 15/16 WXL16-48 3 WXL32-56 3 1/2 WXL32	93 5 13/16
WXL2-19 1 3/16 WXL4-23 1 7/16 WXL4-50 3 1/8 WXL8-37 2 5/16 WXL8-64 4 WXL16-49 3 1/16 WXL32-57 3 9/16 WXL32	-94 5 7/8
WXL2-20 1 1/4 WXL4-24 1 1/2 WXL8-38 2 3/8 WXL16-50 3 1/8 WXL32-58 3 5/8 WXL32	
WXL2-21 15/16 WXL4-25 19/16 WXL8-39 27/16 WXL16-51 33/16 WXL32-59 311/16 WXL32	-96 6
WXL2-22 1 3/8 WXL4-26 1 5/8 WXL8-40 2 1/2 WXL16-52 3 1/4 WXL32-60 3 3/4 WXL32	-97 6 1/16
WXL2-23 17/16 WXL4-27 1 11/16 WXL8-41 2 9/16 WXL16-53 3 5/16 WXL32-61 3 13/16 WXL32	- <i>98</i> 6 1/8
WXL2-24 1 1/2 WXL4-28 1 3/4 WXL8-42 2 5/8 WXL16-54 3 3/8 WXL32-62 3 7/8	
WXL2-25 1 9/16 WXL4-29 1 13/16 WXL8-43 2 11/16 WXL16-55 3 7/16 WXL32-63 3 15/16	
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WXL2-29 1 13/16 WXL4-33 2 1/16 WXL8-47 2 15/16 WXL16-62 3 7/8 WXL32-68 4 1/4	
WXL2-30 1 7/8 WXL4-34 2 1/8 WXL8-48 3 WXL16-64 4 WXL32-70 4 3/8	
WXL2-31 1 15/16 WXL4-35 2 3/16 WXL8-49 3 1/16 WXL16-66 4 1/8 WXL32-72 4 1/2	
WXL2-32 2 WXL4-36 2 1/4 WXL8-50 3 1/8 WXL16-68 4 1/4 WXL32-74 4 5/8	
WXL2-33 2 1/16 WXL4-37 2 5/16 WXL8-51 3 3/16 WXL16-70 4 3/8 WXL32-76 4 3/4	
WXL2-34 2 1/8 WXL4-38 2 3/8 WXL8-52 3 1/4 WXL16-72 4 1/2 WXL32-78 4 7/8	
WXL2-35 2 3/16 WXL4-39 2 7/16 WXL8-53 3 5/16 WXL16-74 4 5/8 WXL32-80 5	
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WXL2-37 2 5/16 WXL4-41 2 9/16 WXL8-55 3 7/16 WXL32-84 5 1/4	
WXL2-38 2 3/8 WXL4-42 2 5/8 WXL8-56 3 1/2 WXL32-86 5 3/8	

TORQUE WRENCHES

TORQUE WRENCH PUMPS

- The PET20 Series is a light weight, two speed, easy to carry workhorse, ideal for smaller wrenches.
- The PET70 Series is a fast, two speed design with higher crossover, ideal for larger wrenches.
- The PET 70 Series is available in 4 port or 8 port configurations for 2 or 4 tool simultaneous operation.
- Rated for continuous duty.
- PET7042 incorporate a psi/bar top mounted gauge at a 30° angle for accurate control.
- PET7842 incorporate a psi/bar flush mounted gauge for accurate control.
- Ideal for use with long extension cords.
- Quick-connect, No-Drip couplers with Safety Locking Collar.
- PET2041 & PET7042 incorporate an auto shut-off switch to prevent inadvertent overheating.
- Powerful permanent magnet motor starts at full load and runs on as little as 60 VAC.
- Pumps include one set of couplers installed for single tool use.

PET2041 - .5 HP ELECTRIC POWER UNIT



Model	Resvr. Size	١	/alve	Motor Control	*Manifold	Motor Specifications (Permanent Magnet)		Rate 5 VAC	Weight (lbs)	Type of Wrench
Number	(Gal.)	Control	Туре			, , , , ,	600	10,000		
PET2041	1	Colonoid	4 Way/3 Pos.	Auto Shut-Off	8 Ports for 4 Tool Use	0.5 HP Single Phase	400	20	65	Double Acting
PET2841	'	Solellolu	4 Way/3 POS.	Manual Shut-Off	2 Ports for 1 Tool Use	0.5 HP Sillyle Phase	400	20	00	Double Acting

Optional multi-port kit for the PET2841, order (1) WMT4 bolt-on manifold kit and a CTP212 for each additional tool you need up to 4 tools maximum. Retract pressure is preset at 1,300 PSI.

PET7042 - 1.5 HP ELECTRIC POWER UNIT



Model	Resvr. Size	Valve		*Manifold	•	Motor Specifications (Permanent Magnet)		Flow Rate @ 115 VAC		Type of Wrench
Number		Control	Туре			(i ormanom magnot)	600	10,000	` ′	
PET7042	2	Colonoid	4 Way/3 Pos.	8 Ports for 4 Tool Use	CTP212	1.5 HP Single Phase	400	50	75	Double Acting
PET7842		Solellold	4 Way/3 POS.	4 Ports for 2 Tool Use	GIFZIZ	1.5 HP Single Phase	400	50	75	Double Acting

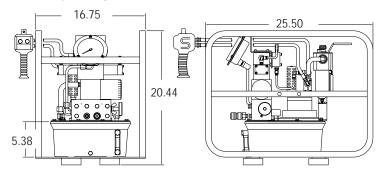
^{*}Order a CTP212 for each additional tool to be used simultaneously with a single pump. Retract pressure is preset at 1,300 PSI

PUMP & ACCESSORIES

TORQUE WRENCHES



PAT4542 - 1.5 HP AIR POWER UNIT



- Air powered for use in hazardous environments.
- The 8 port configuration allows operation of up to 4 tools simultaneously.
- Rated for continuous duty.
- Auto dump relieves all pressure from hoses for added safety.
- Fast two speed design with higher crossover.
- Includes psi/bar pressure gauge which is top mounted at a 30° angle for accurate control.
- Quick-connect, No-Drip couplers with Safety Locking Collar.
- External filter & roll bars standard.
- Pumps include one set of couplers installed for single tool use.

Model	Resvr. Size	,	/alve	*Manifold	Pump Coupler Set	Motor Specifications		Rate in.) @	Weight (lbs)	Type of Wrench
Number	(Gal.)	Control	Type				,	/90 psi		
PAT4542	2	Calanaid	4 Way/2 Das	8 Ports for 4 Tool Use	CTD212	1.5 HP Rotary Air	400	50	FO	Double Asting
PAT5042		Solenola	4 Way/3 Pos.	2 Ports for 1 Tool Use	CTP212	4 HP Rotary Air	550	80	50	Double Acting

^{*}Order a CTP212 for each tool to be used simultaneously with a PAT4542. Retract pressure is preset at 1,300 PSI.

TORQUE WRENCH INTENSIFIER

Model Number	,	Input Flow Range		Output Pres. Max.	Output Flow Range		Output Pres.	Weight (lbs)	
	Туре	Function	(GPM)	(PSI)	(PSI)	(GPM)	Ratio	Ratio	` ´
PIT4	4 Way/3 Position	Advance/Hold/Retract	5 - 10	300-2,000	10,000	2	1:5	5:1	30



TORQUE WRENCH HOSES

Model Number	_	Hose Type
WH-15	15	15' Blue & Yellow Duplex Hose w/ Quick Disconnect Couplers
WH-20	20	20' Blue & Yellow Duplex Hose w/ Quick Disconnect Couplers
WH-40	40	40' Blue & Yellow Duplex Hose w/ Quick Disconnect Couplers



TORQUE WRENCH GAUGES

Model Number		Increments (psi/bar)	Type of Gauge
G7	4	100/10	0 to 10,000 PSI / 0 to 700 BAR Liquid Filled Gauge



Standard on all Simplex Torque Wrench Pumps.

TORQUE WRENCH COUPLERS

Model Number	NPTF (in.)	Coupler Type
CT210	1/4	10,000 PSI/700 BAR Male Coupler
CT211		10,000 PSI/700 BAR Female Coupler
CT212		10,000 PSI/700 BAR Coupler Complete
CTP212*		10,000 PSI/700 BAR Pump Coupler Set







