

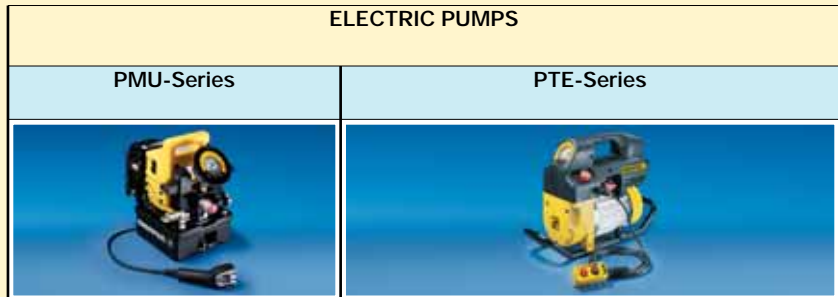


# Selection Matrix

## Torque Wrench & Pump Combinations

For speed and performance Enerpac recommends the following system set-up with wrench-pump-hose combinations.

**NOTE:** For other combinations, consult your Enerpac bolting expert or your authorized Enerpac distributor.



Enerpac Torque Wrenches		Any brand of wrench matching the torque indicated below		ELECTRIC PUMPS						
				PMU-Series		PTE-Series				
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700 bar Torque Wrenches		Maximum Torque		Flow at rated pressure: 0,34 l/min 115V, 1 ph	Flow at rated pressure: 0,34 l/min 230V, 1 ph	Flow at rated pressure: 0,9 l/min 230V, 1 ph	Flow at rated pressure: 0,7 l/min 230V, 3 ph	Flow at rated pressure: 0,9 l/min 400V, 3 ph		
Model Nr.		Nm	Ft.lbs							
	S1500	1898	1400	PMU-10427-Q	PMU-10422-Q	PTE-3404E-Q	PTE-3404T-Q	PTE-3404W-Q		
	S3000	4339	3200							
	S6000	8144	6010							
	S11000	14.914	11.000							
	S25000	34.079	25.150							
	W2000	2712	2000	PMU-10427-Q	PMU-10422-Q	PTE-3404E-Q	PTE-3404T-Q	PTE-3404W-Q		
	W4000	5423	4000							
	W8000	10.846	8000							
	W15000	20.337	15.000							
800 bar Torque Wrenches										
Model Nr.										
	SQD-25-I	2350	1735	PMU-10427	PMU-10422	-	-	-		
	SQD-50-I	4800	3550							
	SQD-75-I	7560	5570							
	SQD-100-I	10.000	7360	-	-	PTE-3404E	PTE-3404T	PTE-3404W		
	SQD-160-I	16.000	11.835							
SQD-270-I	27.000	19.875								
	HXD-30	3290	2425	PMU-10427	PMU-10422	-	-	-		
	HXD-60	6190	4565							
	HXD-120	12.500	9220	-	-	PTE-3404E	PTE-3404T	PTE-3404W		
	HXD-240	24.210	17.860							



### Select the right torque

Choose your Enerpac torque wrench using the untightening rule of thumb:

- Be aware that when loosening a nut or bolt more torque is usually required than when tightening.
- Do not apply more than 75% of the maximum torque when loosening nuts or bolts.

### Conditions of bolted joints

- For fully threaded UNC nuts and bolts do not exceed **1 1/2 times** nominal torque for a friction coefficient of 0,1.
- Humidity corrosion (rust) requires up to **2 times** the torque required for tightening.
- Sea water and chemical corrosion requires up to **2 1/2 times** the torque required for tightening.
- Heat corrosion requires up to **3 times** the torque required for tightening.

# Torque Wrench, Pump & Hose Selection



ELECTRIC PUMPS		AIR DRIVEN PUMPS		TWIN HOSES	
ZU4T-Series		ZA4T-series	PTA-series	THQ-Series THC-Series	
					
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Flow at rated pressure: 0,9 - 1,0 l/min 115V, 1 ph	Flow at rated pressure: 0,9 - 1,0 l/min 230V, 1 ph	Flow at rated pressure: 0,9 - 1,0 l/min	Flow at rated pressure: 0,33 l/min		700 bar Torque Wrench Model Nr.
ZU4208TB-Q	ZU4208TE-Q	ZA4208TX-Q	PTA-1404-Q -	THQ-706T (6m) THQ-712T (12m)	S1500 S3000 S6000 S11000 S25000
ZU4208TB-Q	ZU4208TE-Q	ZA4208TX-Q	PTA-1404-Q -	THQ-706T (6m) THQ-712T (12m)	W2000 W4000 W8000 W15000
-	-	-	PTA-1404	THC-7062 (6m) THC-7122 (12m)	800 bar Torque Wrench SQD-25-I SQD-50-I SQD-75-I SQD-100-I SQD-160-I SQD-270-I
ZU4208TB-E	ZU4208TE-E	ZA4208TX-E	-		HXD-30 HXD-60 HXD-120 HXD-240
-	-	-	PTA-1404	THC-7062 (6m) THC-7122 (12m)	
ZU4208TB-E	ZU4208TE-E	ZA4208TX-E	-		



### Torque Wrench Couplers

Refer to the System Components section for ordering couplers for torque wrenches.

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### IMPORTANT!

Always make sure that the torque scale on the pump matches the torque wrench size for accurate torque settings.