



Fill, Draw & Torque Sheet

Key Model of this Tool Group	Full Volume of Liner Oil in Pulse Unit (approx.)	Volume to be Removed from the Full Volume (approx.)	Torque to Tighten Liner Casing Setter (approx.)	Torque to Tighten Liner Casing Setter (approx.)	Load to Press on Rear Liner Plate	Load to Press on Rear Liner Plate
					Hydraulic Press	P.T.R.F.
Model	cc's	cc's	NM	Ft-Lbs	Tons	Ft-Lbs
U-300SD	5.0	0.15	50 +/-5	37+/-4		
U-310SD / U-50EC	5.0	0.15	50 +/-5	37+/-4		
U-350(S)(D)	5.0	0.15	50 +/-5	37+/-4		
UL-30(D)	5.0	0.31+/- .01	85+/-5	63+/-4		
ULT-30 (D)(S)	5.0	0.30+/- .01	85 +/-5	63+/-4	1	20
U-410(S)(D) & 60EC	8.5	0.35	70 +/-5	52+/-4		
UX-450(S)(D)	5.0	0.50+/- .05	70 +/-5	52+/-4		
U-480	9.0	0.40	70 +/-5	52+/-4	3	60
UX-500(S)(D)(C)	5.0	0.50+/- .05	70 +/-5	52+/-4		
U-501 & 80EC	9.0	0.40	70 +/-5	52+/-4	3	60
ALPHA-45(S)(D) & 61(D)	5.0	0.45+/- .05	70+/-5	52+/-4		20
ALPHA-50(S)(D) & L61(D)	5.0	0.50+/- .05	70 +/-5	52+/-4		
ALPHA-T40D(S), T42D(S)(P), T45(S)(D)(P), T46(D), T47(S)(D)(P), T50(D) & T52(D)	5.0		70 +/-5	52+/-4		
ALPHA-50MC, 60MC & 70MC	5.0	0.45+/- .05	70 +/-5	52+/-4		
UL-40(D), UL-40A(D)MC	5.0	0.35+/- .01	85+/-5	63+/-4		
UEP-50(D) & 50MC(D)	5.5	0.35+/- .05	70+/-5	52+/-4		
UL-50(S)(D) & 50MC, UL-40(D)MC, UL-50A(D)MC	5.0	0.45+/- .05	85 +/-5	63+/-4		
ULT-40(S)(D) & 50(S)(D)(C), UBP-T40 & T50, UDBP-T40 & T50	5.6	0.35 -.04	85 +/-5	63+/-4	1	20
UBP-65	8.0	.70+/- .05	85 +/-5	63+/-4	3	60
U-610	13.0	0.55	70 +/-5	52+/-4	3	60
U-610T	13.0	0.55	70 +/-5	52+/-4	3	60
UX-612(S)(D)(C)(A)	6.2	0.65+/- .05	85 +/-5	63+/-4		
UX-622(D)	6.2	0.65+/- .05	85 +/-5	63+/-4		
ALPHA-T60(D) & T62(D)(MI)	6.2		85+/-5	63+/-4		
ALPHA-60(S)(D)	6.2	0.55+/- .05	85 +/-5	63+/-4		
UEP-60(D) & 60MC(D)	6.8	0.55+/- .05	85+/-5	63+/-4		
UL-60(S)(D), 60MC, 60AMC	6.8	0.55+/- .05	85+/-5	63+/-4		
ULT-60(S)(D)(C) & UBP-T60, UDBP-T60	6.2	0.45+/- .05	85+/-5	63+/-4		
U-700 & 100EC	18.0	0.90	70 +/-5	52+/-4	3	60
U-700T	18.0	0.90	70 +/-5	52+/-4	3	60
UX-700(S)(D)(C) & 80EC	8.8	0.80+/- .01	110 +/-5	81+/-4	2	40
UX-T700, T700L & TL700	8.8	0.70+/- .05	110 +/-5	81+/-4	2	40
ALPHA-70(S)(C)(CH)	8.8	0.80+/- .01	110 +/-5	81+/-4	2	40
ALPHA-T65(S) & T70(S)(C)(CH)	8.8	0.75+/- .05	110+/-5	81+/-4	2	40



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					Hydraulic Press	P.T.R.F.
Model	cc's	cc's	NM	Ft-Lbs	Tons	Ft-Lbs
UEP-70 & 70MC	8.8	0.65+/-0.05	110+/-5	81+/-4	2	40
UL-70, UL-70MC, 70AMC	8.0	0.65+/-0.05	110+/-5	81+/-4	2	40
ULT-70(S)(C)(CH), UDBP-T70	8.8	0.70+/-0.05	110+/-5	81+/-4	2	40
U-800	20.0	1.00	90 +/-5	67+/-4	3	60
U-800T	20.0	1.00	90 +/-5	67+/-4	3	60
UX-800(S)(C) & ST800	12.0	0.80+/-0.1	135 +/-5	100+/-4	2	40
UX-T800 & TL800	12.0	0.80+/-0.05	135 +/-5	100+/-4	2	40
ALPHA-80	12.0	1.00+/-0.1	135 +/-5	100+/-4	2	40
ALPHA-T80	12.0	0.80+/-0.05	135+/-5	100+/-4	2	40
ALPHA-80MC & 90MC	6.2	0.55+/-0.05	85 +/-5	63+/-4		
UL-80	14.0	0.80+/-0.05	110+/-5	81+/-4	2	40
UEP-80 & 80MC	14.0	0.9+/-0.05	150+/-5	110+/-4	3	60
ULT-80	12.0	0.85+/-0.05	110+/-5	81+/-4	2	40
U-900	25.0	1.25	100 +/-5	74+/-4	3	60
U-900T	25.0	1.25	100 +/-5	74+/-4	3	60
UX-900(S)(C) & 120EC	14.0	0.95+/-0.1	150 +/-5	110+/-4	3	60
UX-T900 & TL900	14.0	0.95+/-0.05	150 +/-5	110+/-4	3	60
ALPHA-90	14.0	1.00+/-0.1	150 +/-5	110+/-4	3	60
ALPHA-T90	14.0	0.95+/-0.05	150+/-5	110+/-4	3	60
UL-90, UL-90MC, 90AMC	14.0	0.95+/-0.05	150+/-5	110+/-4	3	60
ULT-90	14.0	1.0+/-0.05	150+/-5	110+/-4	3	60
U-1000	32.0	1.70	110 +/-5	81+/-4	3	60
U-1000T	32.0	1.70	110 +/-5	81+/-4	3	60
UX-1000(S)(C) & 130EC	19.0	1.50+/-0.1	185 +/-10	137+/-7	3	60
UX-T1000 & TL1000	19.0	1.40+/-0.1	185 +/-10	137+/-7	3	60
ALPHA-100	19.0	1.70+/-0.1	185 +/-10	137+/-7	3	60
ALPHA-T100	19.0	1.40+/-0.1	185 +/-10	137+/-7	3	60
ALPHA-100MC & 101MC	12.0	0.8+/-0.1	135 +/-5	100+/-4	2	40
ALPHA-110MC	12.0	0.95+/-0.1	135+/-5	100+/-4	2	40
UEP-100 & 100MC	19	1.5+/-0.05	185 +/-10	137+/-7	3	60
UL-100	19	1.5+/-0.05	185 +/-10	137 +/-7	3	60
ULT-100, UL-100MC, 100AMC	21.5	1.60+/-0.1	185+/-10	137+/-7	3	60
U-1301	38.0	2.00	120 +/-10	89+/-7	4	80
U-1301T	38.0	2.00	120 +/-10	89+/-7	4	80
UX-1300(S), T1300 & TL1300	24.0	1.80+/-0.1	185 +/-10	137+/-7	3	60
ALPHA 130	24.0	2.00+/-0.1	185 +/-10	137+/-7	3	60
ALPHA-T130	24.0	1.80+/-0.1	185+/-10	137+/-7	3	60
ALPHA-130MC	24.0	1.80+/-0.1	185+/-10	137+/-7	3	60
UL-130	27.0	1.70+/-0.1	185+/-10	137+/-7	3	60
ULT-130, UL-130MC, 130AMC	24.0	1.60+/-0.1	185+/-10	137+/-7	3	60

