

TABLE 12. ETB45 Extreme Duty Series, Capacities & Dimensional

Metric Series		Torque Cap. ft-lbs	Metric Dimensional Data							Tightening Screws			Weight lbs.
Size	d1		D	T	L1	L2	L3	Ps psi	Ph psi	Qty	Size	Ma (ft-lb)	
180x285	7.087	161,200	11.220	.0025	8.071	9.016	9.882	31000	23740	14	M22x180	675	140
200x305	7.874	205,400	12.008	.003	8.071	9.016	9.882	31850	20880	16	M22x180	675	150
220x325	8.661	225,600	12.795	.003	8.071	9.016	9.882	29010	19630	16	M22x180	675	160
240x355	9.449	284,200	13.976	.003	8.189	9.370	10.315	30710	20760	16	M24x180	870	195
260x375	10.236	284,200	14.764	.0035	8.189	9.370	10.315	30710	20760	18	M24x180	870	210
280x405	11.024	415,200	15.945	.0035	8.189	9.370	10.315	32840	22700	20	M24x180	870	245
300x425	11.811	444,800	16.732	.0035	8.189	9.370	10.315	30710	21680	20	M24x180	870	260
320x455	12.598	560,500	17.913	.0035	9.843	11.024	12.087	28580	20100	18	M27x220	1300	360
340x475	13.386	661,800	18.701	.0035	9.843	11.024	12.087	29862	21370	20	M27x220	1300	375
360x495	14.173	766,600	19.488	.0035	9.843	11.024	12.087	31140	22640	22	M27x220	1300	395
380x515	14.961	810,000	20.276	.0035	9.843	11.024	12.087	29430	21710	22	M27x220	1300	415
400x535	15.748	853,400	21.063	.0035	9.843	11.024	12.087	28010	20940	22	M27x220	1300	425
420x655	16.535	976,400	21.850	.0035	9.843	11.024	12.087	29150	22060	24	M27x220	1300	450
440x575	17.323	1,027,000	22.638	.0035	9.843	11.024	12.087	27720	21210	24	M27x220	1300	465
460x595	18.110	1,076,000	23.425	.0035	9.843	11.024	12.087	26590	20550	24	M27x220	1300	484
480x615	18.898	1,310,000	24.213	.0035	9.843	11.024	12.087	29710	23190	28	M27x220	1300	505
500x635	19.685	1,365,000	25.000	.004	9.843	11.024	12.087	28440	22390	28	M27x220	1300	515
520x655	20.472	1,417,000	25.787	.004	9.843	11.024	12.087	27440	21780	28	M27x220	1300	540
540x675	21.260	1,576,000	26.575	.004	9.843	11.024	12.087	28290	22630	30	M27x220	1300	560
560x695	22.047	1,634,000	27.362	.005	9.843	11.024	12.087	27300	21990	30	M27x220	1300	575

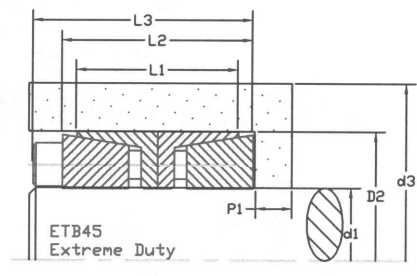


Fig. 28

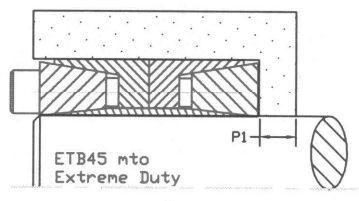


Fig. 29

ETB45 Extreme Duty, double-self-locking design. This rugged design is the preferred choice for the tough jobs; stamping presses, blanking presses, cutoff shear, crusher and shredder:

- High shock loads
- High bending moments
- Vibration or pulsating loads
- Stop start or reversing loads

This design can also support large radial hub weights: intermediate gears, bull gears, rolling mill drives, conveyor drums and flywheels etc.

ETB45 is available in many design variations that can be quickly manufactured to meet sizes up to 60.0" Dia. shafts. Our staff of Professional Engineers, has a successful international track record of providing complete solutions to our customer's tough applications.

T= Machining Tolerance. Ma = Screw Torque
Shaft Diameter = d1 +0/-T. Hub Bore = D2+T/-0

Easy Assembly & Disassembly...unit can be assembled as one piece or assembled as components.

Easy Positioning...with screws torqued to 40%. The unit can be positioned and pre-centered to allow for precise radial timing of gears etc.

Increased Shaft Strength...stress concentrations at the keyway are eliminated avoiding possibility of future shaft cracks, and permits the use of smaller shaft diameters.

Highest Torque Capacity...this design has many variations that provide the highest torque capacity. If your application requires more capacity, contact PTE for a complete design review.

Adaptable...this design can be modified to meet your needs: larger or smaller cross section, longer or shorter length, increased or decreased torque capacity, no-axial- movement design, as shown in Fig 29. And we can design the ETB unit to be a torque overload fuse, +/- 10% of desired torque capacity overload point.