

Dalton Gear Company

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The Dalton "OSD" is a torque-limiter unit which prevents costly breakdowns when equipment is overloaded, by disengaging when a set maximum load is reached. The unit is re-engaged immediately when the overload is eliminated. The "OSD" is easily adjusted with a torque-wrench to the specific torque required. It can be used with a sprocket, gear, belt-pully, or flange. The clutch facings used, have been selected after research and testing, to resist expansion due to moisture. The flanges are high carbon steel forgings, machined accurately for precise operation. The threaded hub and pressure plate are machined square and ground where necessary to position the plate and eliminate extra parts. The torque adjusting nut is hexagonal for easier installation and adjustment. Equipped with needle bearings to eliminate shaft scoring, seizing, and wear. Use only specially ground sprockets.

The Dalton "OSD", Overload Safety Device Unit, is equipped with a single torque adjusting nut for torque uniformity. Only one setting on the single e nut applies equal pressure on the entire unit, whereas the use of multiple e nuts would make it extremely difficult to equalize the pressure and would defeat the purpose of a positive release. A standard pipe wrench, which is readily available everywhere, may also be used to adjust this nut.

Fibers are 1/8" thick.

FORMULA FOR TORQUE-HORSEPOWER (Foot Pounds)

TORQUE (Foot. Pounds) = (HPx5252)/RPM

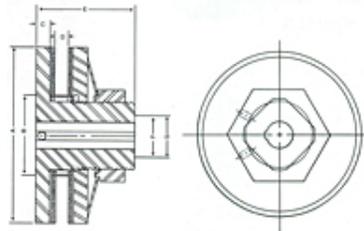
HORSEPOWER = (Torque x RPM)/5252

Important Notes:

The "OSD" overload safety device can be made to suit your application. Send us your blueprints or specifications, for recommendations by our engineering department.

Dalton Overload Safety Devices can be plated with cadmium, chrome and zinc.

Sprockets can be furnished in ferrous materials.



Results 1 - 20 of 20

Item #	Maximum Torque	E - Overall Length	F - Minimum Bore	G - Maximum Bore
OSD-131	6 lbs 1 mkp	1-3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131D	12 lbs 2 mkp	1-3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-225	35 lbs 5 mkp	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225D	50 lbs 7 mkp	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-256	50 lbs 7 mkp	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D	75 lbs 11 mkp	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-337	100 lbs 14 mkp	2-1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D	175 lbs 24 mkp	2-1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-362	120 lbs 17 mkp	2-1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D	185 lbs 26 mkp	2-1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm

OSD-450	190 lbs 26 mkp	2-7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D	285 lbs 39 mkp	2-7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-493	210 lbs 29 mkp	2-7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D	360 lbs 50 mkp	2-7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-600	320 lbs 44 mkp	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D	440 lbs 61 mkp	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-750	550 lbs 76 mkp	3-3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D	775 lbs 107 mkp	3-3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-900	1000 lbs 139 mkp	4-1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D	1250 lbs 173 mkp	4-1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm

Results 1 - 20 of 20