

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

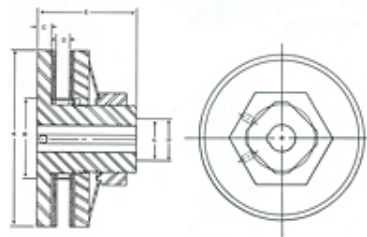
HORSEPOWER = (Torque x RPM)/5252

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.

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Item #	Maximum Torque	Bore Size	E - Overall Length	F - Minimum Bore	G - Maximum Bore
OSD-131-1/4	6 lbs 1 mkp	1/4 Inch 6.4 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131-5/16	6 lbs 1 mkp	5/16 Inch 8 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131-3/8	6 lbs 1 mkp	3/8 Inch 9.6 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131D-1/4	12 lbs 2 mkp	1/4 Inch 6.4 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131D-5/16	12 lbs 2 mkp	5/16 Inch 8 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-131D-3/8	12 lbs 2 mkp	3/8 Inch 9.6 mm	1 3/8 Inch 35 mm	1/4 Inch 6.4 mm	3/8 Inch 10 mm
OSD-225-3/8	35 lbs 5 mkp	3/8 Inch 9.6 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225-1/2	35 lbs 5 mkp	1/2 Inch 12.7 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm

OSD-225-5/8	35 lbs 5 mkp	5/8 Inch 15.9 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225-3/4	35 lbs 5 mkp	3/4 Inch 19.1 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225D-3/8	50 lbs 7 mkp	3/8 Inch 9.6 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225D-1/2	50 lbs 7 mkp	1/2 Inch 12.7 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225D-5/8	50 lbs 7 mkp	5/8 Inch 15.9 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-225D-3/4	50 lbs 7 mkp	3/4 Inch 19.1 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	3/4 Inch 19 mm
OSD-256-3/8	50 lbs 7 mkp	3/8 Inch 9.6 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256-1/2	50 lbs 7 mkp	1/2 Inch 12.7 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256-5/8	50 lbs 7 mkp	5/8 Inch 15.9 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256-3/4	50 lbs 7 mkp	3/4 Inch 19.1 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256-7/8	50 lbs 7 mkp	7/8 Inch 22.2 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D-3/8	75 lbs 11 mkp	3/8 Inch 9.6 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D-1/2	75 lbs 11 mkp	1/2 Inch 12.7 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D-5/8	75 lbs 11 mkp	5/8 Inch 15.9 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D-3/4	75 lbs 11 mkp	3/4 Inch 19.1 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-256D-7/8	75 lbs 11 mkp	7/8 Inch 22.2 mm	2 Inch 51 mm	3/8 Inch 9.6 mm	7/8 Inch 22 mm
OSD-337-1/2	100 lbs 14 mkp	1/2 Inch 12.7 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337-5/8	100 lbs 14 mkp	5/8 Inch 15.9 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337-3/4	100 lbs 14 mkp	3/4 Inch 19.1 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337-7/8	100 lbs 14 mkp	7/8 Inch 22.2 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337-1	100 lbs 14 mkp	1 Inch 25.4 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D-1/2	175 lbs 24 mkp	1/2 Inch 12.7 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D-5/8	175 lbs 24 mkp	5/8 Inch 15.9 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D-3/4	175 lbs 24 mkp	3/4 Inch 19.1 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D-7/8	175 lbs 24 mkp	7/8 Inch 22.2 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-337D-1	175 lbs 24 mkp	1 Inch 25.4 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1 Inch 25 mm
OSD-362-1/2	120 lbs 17 mkp	1/2 Inch 12.7 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362-5/8	120 lbs 17 mkp	5/8 Inch 15.9 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362-3/4	120 lbs 17 mkp	3/4 Inch 19.1 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362-7/8	120 lbs 17 mkp	7/8 Inch 22.2 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362-1	120 lbs 17 mkp	1 Inch 25.4 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362-1 1/8	120 lbs 17 mkp	1 1/8 Inch 28 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D-1/2	185 lbs 26 mkp	1/2 Inch 12.7 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm

OSD-362D-5/8	185 lbs 26 mkp	5/8 Inch 15.9 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D-3/4	185 lbs 26 mkp	3/4 Inch 19.1 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D-7/8	185 lbs 26 mkp	7/8 Inch 22.2 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D-1	185 lbs 26 mkp	1 Inch 25.4 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-362D-1 1/8	185 lbs 26 mkp	1 1/8 Inch 28 mm	2 1/8 Inch 54 mm	1/2 Inch 12.7 mm	1-1/8 Inch 28 mm
OSD-450-3/4	190 lbs 26 mkp	3/4 Inch 19.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450-1	190 lbs 26 mkp	1 Inch 25.4 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450-1 1/8	190 lbs 26 mkp	1 1/8 Inch 28 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450-1 1/4	190 lbs 26 mkp	1 1/4 Inch 31.8 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450-1 3/8	190 lbs 26 mkp	1 3/8 Inch 35 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D-3/4	285 lbs 39 mkp	3/4 Inch 19.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D-1	285 lbs 39 mkp	1 Inch 25.4 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D-1 1/8	285 lbs 39 mkp	1 1/8 Inch 28 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D-1 1/4	285 lbs 39 mkp	1 1/4 Inch 31.8 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-450D-1 3/8	285 lbs 39 mkp	1 3/8 Inch 35 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-3/8 Inch 35 mm
OSD-493-3/4	210 lbs 29 mkp	3/4 Inch 19.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1	210 lbs 29 mkp	1 Inch 25.4 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1 1/8	210 lbs 29 mkp	1 1/8 Inch 28 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1 1/4	210 lbs 29 mkp	1 1/4 Inch 31.8 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1 3/8	210 lbs 29 mkp	1 3/8 Inch 35 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1 1/2	210 lbs 29 mkp	1 1/2 Inch 38.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493-1 5/8	210 lbs 29 mkp	1 5/8 Inch 42 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-3/4	360 lbs 50 mkp	3/4 Inch 19.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1	360 lbs 50 mkp	1 Inch 25.4 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1 1/8	360 lbs 50 mkp	1 1/8 Inch 28 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1 1/4	360 lbs 50 mkp	1 1/4 Inch 31.8 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1 3/8	360 lbs 50 mkp	1 3/8 Inch 35 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1 1/2	360 lbs 50 mkp	1 1/2 Inch 38.1 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-493D-1 5/8	360 lbs 50 mkp	1 5/8 Inch 42 mm	2 7/8 Inch 73 mm	3/4 Inch 19.1 mm	1-5/8 Inch 42 mm
OSD-600-1	320 lbs 44 mkp	1 Inch 25.4 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600-1 1/4	320 lbs 44 mkp	1 1/4 Inch 31.8 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600-1 3/8	320 lbs 44 mkp	1 3/8 Inch 35 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600-1 7/16	320 lbs 44 mkp	1 7/16 Inch 36.5 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm

OSD-600-1 1/2	320 lbs 44 mkp	1 1/2 Inch 38.1 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600-1 5/8	320 lbs 44 mkp	1 5/8 Inch 42 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1	440 lbs 61 mkp	1 Inch 25.4 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1 1/4	440 lbs 61 mkp	1 1/4 Inch 31.8 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1 3/8	440 lbs 61 mkp	1 3/8 Inch 35 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1 7/16	440 lbs 61 mkp	1 7/16 Inch 36.5 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1 1/2	440 lbs 61 mkp	1 1/2 Inch 38.1 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-600D-1 5/8	440 lbs 61 mkp	1 5/8 Inch 42 mm	3 Inch 76 mm	1 Inch 25.4 mm	1-3/4 Inch 44 mm
OSD-750-1	550 lbs 76 mkp	1 Inch 25.4 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750-1 1/2	550 lbs 76 mkp	1 1/2 Inch 38.1 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750-1 3/4	550 lbs 76 mkp	1 3/4 Inch 44 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750-1 15/16	550 lbs 76 mkp	1 15/16 Inch 49 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750-2	550 lbs 76 mkp	2 Inch 50.8 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D-1	775 lbs 107 mkp	1 Inch 25.4 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D-1 1/2	775 lbs 107 mkp	1 1/2 Inch 38.1 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D-1 3/4	775 lbs 107 mkp	1 3/4 Inch 44 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D-1 15/16	775 lbs 107 mkp	1 15/16 Inch 49 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-750D-2	775 lbs 107 mkp	2 Inch 50.8 mm	3 3/4 Inch 95 mm	1 Inch 25.4 mm	2-1/2 Inch 64 mm
OSD-900-1 1/4	1000 lbs 139 mkp	1 1/4 Inch 31.8 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900-1 3/4	1000 lbs 139 mkp	1 3/4 Inch 44 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900-2	1000 lbs 139 mkp	2 Inch 50.8 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900-2 1/4	1000 lbs 139 mkp	2 1/4 Inch 57 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900-2 3/4	1000 lbs 139 mkp	2 3/4 Inch 70 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D-1 1/4	1250 lbs 173 mkp	1 1/4 Inch 31.8 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D-1 3/4	1250 lbs 173 mkp	1 3/4 Inch 44 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D-2	1250 lbs 173 mkp	2 Inch 50.8 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D-2 1/4	1250 lbs 173 mkp	2 1/4 Inch 57 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm
OSD-900D-2 3/4	1250 lbs 173 mkp	2 3/4 Inch 70 mm	4 1/4 Inch 108 mm	1-1/4 Inch 31.8 mm	3-1/2 Inch 90 mm

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