

Loading Classifications

Under normal loading, DARALI® Cycloidal Reducers can operate continuously without breakdowns. Therefore, you will enjoy trouble free operation. However, careful selection of model must be considered for various applications and configurations. For intermittent or periodic use, the smaller models may be chosen. On the other hand, if starting torque and starting frequency are high, consider using a larger service factor or a heavier duty model instead. Use the chart below to determine the loading classification of your application. Multiply your load torque by the appropriate service factor corresponded to the loading classification and operating hours per day.

AGMA LOAD CLASSIFICATIONS

APPLICATION (LOAD NATURE)	APPLICATION (LOAD NATURE)	APPLICATION (LOAD NATURE)	APPLICATION (LOAD NATURE)		
Agitators Pure Liquids (U) Liquids & Solids (M) Variable-Density Liquids (M)	Bucket, heavy load (M) Bucket, cont. (U) Centrifugal Discharge (U) Escalators (U) Freight (M) Gravity Discharge (U)	Small Waste Conv. Chain (M) Sorting Table (M) Tipple Hoist Conveyor (M) Tipple Hoist Drive (M) Transfer Conveyor (M) Transfer Rolls (M) Tray Drive (M) Trimmer Feed (M) Waste Conveyor (M)	Pulp Machine Reel (M) Stock Chest (M) Suction Roll (U) Washers and Thickeners (M) Winders (U)		
Blowers Centrifugal (U) Lobe (M) Vane (U)	Extruders (Plastics) Blow Molders (M) Coating (U) Film (U) Pipe (U) Pre-Plasticizers (M) Rods (U) Sheet (U) Tubing (U)	Machine Tools Bending Roll (M) Notching Press, Belt Drv. (H) Plate Planer (H) Punch Press, Gear Drv. (H) Tapping Machine (H) Other Machine Tools Main Drive (M) Auxiliary Drives (U)	Printing Presses (H) Pullers, Barge Haul (H) Pumps Centrifugal (U) Proportioning (M) Reciprocating Single Acting, >=3 Cyl. (M) Double Acting, >=2 Cyl. (M) Rotary-Gear Type (U)		
Brewing and Distilling Bottling Machinery (U) Brew Kettles, cont. duty (U) Cookers, cont. duty (U) Mash Tubs, cont. duty (U) Scale Hopper, freq. starts (M)	Fans Centrifugal (U) Cooling Towers (M) Forced Draft (M) Induced Draft (M) Large, mine, etc. (M)	Metal Mills Draw Bench Carriage (M) Main Drive (M) Forming Machines (H) Slitters (M) Table Conveyors, Nonreversing Group Drives (M) Individual Drives (H) Table Conveyors, reversing (H) Wire Drawing & Flattening (M) Wire Winding Machine (M)	Rubber And Plastic Industry Crackers (H) Laboratory Equipment (M) Mixing Mills (H) Refiners (M) Rubber Calendars (M) Rubber Mill, 2 on line (M) Rubber Mill, 3 on line (U) Sheeter (M) Tire Building Machine (H) Tire & Tube Press Openers (H) Tubers & Strainers (M) Warming Mills (M)		
Can Filling Machines (U) Cane Knives (M) Car Dumpers (H) Car Pullers (M) Clarifiers (U) Classifiers (M) Clay Working Machineries Brick Press (H) Briquette Machine (H) Clay Working Machinery (M) Pug Mill (M)	Large, Industrial (M) Light, Small Diameter (U)	Feeder Apron (M) Belt (M) Disc (U) Reciprocating (H) Screw (M)	Sand Muller (M) Screens Air Washing (U) Rotary, stone or gravel (M) Traveling, water intake (U)		
Compressors Centrifugal (U) Lobe (M) Reciprocating, multi-cyl. (M) Reciprocating, single-cyl. (H)	Food Industry Beet Slicer (M) Cereal Cooker (U) Dough Mixer (M) Meat Grinders (M)	Mills, Rotary Type Ball (M) Cement Kilns (M) Dryers & Coolers (M) Kilns (M) Pebble (M) Rod, Plain & Wedge Bar (M) Tumbling Barrels (H)	Sewage Disposal Equipment Bar Screens (U) Chemical Fenders (U) Collectors, circ. or straight. (U) Dewatering Screws (M) Grit Collectors (U) Scum Breakers (M) Slow or Rapid Mixers (M) Sludge Collector (U) Thickeners (M) Vacuum Filters (M)		
Conveyors - Uniformly Loaded or Fed Apron (U) Assembly (U) Belt (U) Bucket (U) Chain (U) Flight (U) Oven (U) Screw (U)	Generators, Not Welding (U) Hammer Mills (H) Hoists Heavy Duty (H) Medium Duty (M) Skip (M)	Mixers Concrete Mixers, cont. (M) Concrete Mixers, int. (M) Constant Density (U) Variable Density (M)	Slab Pushers (M) Stokers (U) Sugar Industry Cane Knives (M) Crushers (M) Mills (H)		
Conveyors - H. Duty, Ununiformly Fed Apron (M) Assembly (M) Belt (M) Bucket (M) Chain (M) Flight (M) Live Roll Oven (M) Reciprocating (H) Screw (M) Shaker (H)	Laundry Washers - Reversing (M) Laundry Tumblers (M) Line Shaft Drive Processing Equip. (M) Light (U) Other Line Shafts (U)	Oil Industry Chillers (M) Oil Well Pump (H) Paraffin Filter Press (M) Rotary Kilns (M)	Textile Industry Batches (M) Calendars (M) Cards (M) Dry Cans (M) Dryers (M) Dyeing Machinery (M) Looms (M) Mangles (M) Nappers (M) Pads (M) Slashers (M) Soapers (M) Spinners (M) Tenter Frames (M) Washers (M)		
Cranes (Except for Dry Dock Cranes) Main Hoists (U)	Lumber Industry Barkers - Hyd. and Mech. (H) Burner Conveyor (M)	Paper Mills Agitators (M) Mixers (M) Barker, hydraulic (M) Barker, mechanical (M) Barking Drum (H) Beater and Pulper (M) Bleacher (U) Calendars (M) Calendars, Super (H) Converting Machines (M) Conveyors (U) Couch (M) Cutters, Platers (H) Dryers (M) Dryers (M) Felt Stretcher (M) Felt Whipper (H) Jordans (H) Log Haul (H) Presses (U)	Crusher Ore (H) Stone (H) Sugar (M)	Dredges Cable Reels (M) Conveyors (M) Cutter Head Drives (H) Jig Drives (H) Maneuvering Winches (M) Pumps (M) Screen Drive (H) Stackers (M) Utility Winches (M)	Elevators Bucket, uniform load (U)

U = Uniform Load
 M = Moderate Shock
 H = Heavy Shock