

PARALLEL SHAFT & RIGHT ANGLE REDUCERS

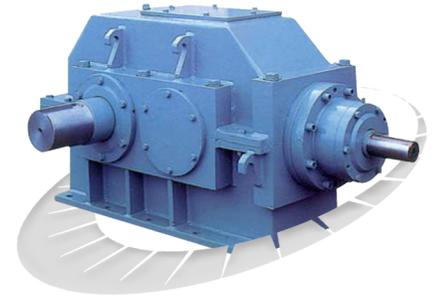
11 SIZES, RATIOS UP TO 500:1 AND

TORQUE RATINGS UP TO 40,000KG-M OUTPUT



Features:

GEARS AND PINIONS - Helical gear teeth are cut on high quality, alloy steel material, then carburized, hardened, and precision ground. The resulting gears and pinions provide high durability ratings with decreased stress and dynamic loads, which provides longer life. Meets AGMA Level 12 specifications.



SHAFTS - Output shafts are made of heat treated, Maximum strength carbon steel, through hardened prior to turning and grinding. Close tolerance bearing shoulders facilitate the mounting of bearings. Highly polished surfaces are provided for oil seals to assure their long life. Large diameters are specified throughout for maximum strength and overhung load capacity.

BEARINGS - Husky roller bearings provide maximum longevity. Output shafts have high capacity roller bearings for heavy overhung and thrust loads.

SEALS - Dual lip type oil seals are standard. Grease purged and labyrinth seals are available options.

HOUSINGS - Rugged fabricated steel housings constructed to exacting specifications are standard. Special configurations and castings also available.

LUBRICATION - Continuous splash lubrication including troughs and feeds and drains to bearings is used on most ratios and speeds. Forced lubrication utilizing oil pumps, filters, heat exchangers, sight gauges and alarm systems is available. Lubrication systems are designed for floor mounting. Other mounting positions are permissible.

EFFICIENCY - Based on 100% load and 100% speed the approximate efficiency of parallel shaft units is 98% for double reduction, 97.5% for triple reduction, and 96.5% for quadruple reduction. For right angle units approximate efficiencies are 97.5% for double reduction, 97% for triple reduction, and 96% for quadruple reduction. Actual operating efficiencies may deviates slightly.

HICO also offers drop in replacements for a wide variety of competitor reducers, they can also design and manufacture custom gear reducers to accommodate customers specifications.

For more information please contact your Canadian Representative MEP with your requirements. Toll Free: 877-812-7778 or Email: information@mep.ca



Service Factors Table

Application	Service		Application	Service		Application	Service	
	10 Hrs/Day	24 Hrs/Day		10 Hrs/Day	24 Hrs/Day		10 Hrs/Day	24 Hrs/Day
Agitators(Mixers)	1.00	1.25	Lumber Industry			Extruder	1.50	1.50
pure Liquids	1.25	1.50	Barkers-Spindle Feed	1.25	1.50	Fourdrinier Rolls	1.25	1.25
liquids and Solid	1.25	1.50	- Main Drive	1.75	1.75	Jordan	1.50	1.50
Liquids-Variable Density			Conveyors-Burner	1.25	1.50	Kiln Drive	1.50	1.50
Blowers			- Main of Heavy Duty	1.50	1.50	Mt. Hope Rolls	1.25	1.25
Centrifugal	1.00	1.25	- Main Log	1.75	2.00	Paper Rolls	1.25	1.25
Lobe	1.25	1.50	- Re-Saw			Platter	1.50	1.50
Vane	1.00	1.25	Mery-Go-Round	1.25	1.50	Presses-Felt & Suction	1.25	1.25
Brewing and Distilling			- Slab	1.75	2.00	Pulper	2.00	2.00
Bottling machinery	1.00	1.25	-Transfer	1.25	1.50	Pumps-Vacuum	1.50	1.50
Brew Kettles, Cont. Duty	1.00	1.25	Chains-Floor	1.50	1.50	Reel(Surface Type)	1.25	1.25
Cookers-Cont. Duty	1.00	1.25	- Green	1.50	1.75	Screens-Chip & Rotary	1.50	1.50
Mash Tubs-Cont. Duty	1.00	1.25	Cut-Off Saws	1.50	1.75	- Vibrating	2.00	2.00
Scale Hopper, Freq. Starts	1.25	1.50	Debarking Drums	1.75	2.00	Size Press	1.25	1.25
Can Filling Machines	1.00	1.25	Feeds-Edger	1.25	1.50	Super Calender-(See Note 2)	1.25	1.25
Car Dumpers	1.75	2.00	- Gang	1.75	1.75	Thickener(AC Motor)	1.50	1.50
Car Pullers	1.25	1.50	- Trimmer	1.25	1.50	- (DC Motor)	1.25	1.25
Clarifiers	1.00	1.25	Log Deck	1.75	1.75	Washer(AC Motor)	1.50	1.50
Classifiers	1.25	1.50	Log Hauls-Incline-Well Type	1.75	1.75	- (DC Motor)	1.25	1.25
Clay Working machinery			Log Turning Devices	1.75	1.75	Wind & Unwind Stand	1.00	1.25
Brick Press	1.75	2.00	Planer Feed	1.25	1.50	Winders(Surface Type)	1.25	1.25
Briquette Machine	1.75	2.00	Planer Tilting Hoists	1.50	1.50			
Pug Mill	1.25	1.50	Rolls-Live-Off Brg-Roll-Casses	1.75	1.75	Plastic Industry		
Compactors	2.00	2.00	Sorting Table	1.25	1.50	Blow Molders	1.50	1.50
Compressors			Tripple Hoist	1.25	1.50	Coating	1.25	1.25
Centrifugal	1.00	1.25	Transfers-Chain or Craneway	1.50	1.75	Film	1.25	1.25
Lobe	1.25	1.50	Tray Drives	1.25	1.50	Pipe	1.25	1.25
Reciprocating Multi Cyl.	1.50	1.75	Veneer Lathe Drives	1.25	1.50	Pre-plasticizers	1.50	1.50
Reciprocating Single-Cyl.	1.75	2.00				Rods	1.25	1.25
Conveyors			Metal Mills			Sheet	1.25	1.25
Uniformly Loaded or fed	1.00	1.25	Draw Bench Carriage and			Tubing	1.25	1.50
Not uniformly fed	1.25	1.50	Main Drive	1.25	1.50			
Reciprocating or Shaker	1.75	2.00	Run Out Tables			Pumps		
			Non-Reversing			Centrifugal	1.00	1.25
Cranes	Δ	Δ	Group Drives	1.50	1.50	Proportioning	1.25	1.50
Crusher			Individual Drives	2.00	2.00	Reciprocating		
Stone or Ore	1.75	2.00	Reversing	2.00	2.00	Single or Double Acting	1.25	1.50
Dredges			Slab Pushers	1.50	1.50	Rotary	1.00	1.25
Cable Reels	1.25	1.50	Shears	2.00	2.00			
Conveyors	1.25	1.50	Wire Drawing	1.25	1.50	Rubber Industry	Δ	Δ
Cutter Head Drives	2.00	2.00	Wire Winding Machine	1.50	1.50			
Pumps	2.00	2.00				Sand Muller	1.25	1.50
Screen Drives	1.75	2.00	Metals Strip Processing Machinery					
Stackers	1.25	1.50	Bridles	1.25	1.50	Sewage Disposal Equipment		
Winches	1.25	1.50	Coilers & Unicollers	1.00	1.25	Bar Screens	1.25	1.25
Elevators			Edge Trimmers	1.25	1.50	Chemical Feeders	1.25	1.25
Bucket	1.25	1.50	Flatteners	1.25	1.50	Dewatering Screens	1.50	1.50
Centrifugal Discharge	1.00	1.25	Loopers(Accuumulators)	1.00	1.25	Scum Breakers	1.50	1.50
Escalators	1.00	1.25	Pinch Rolls	1.25	1.50	Slow or Rapid Mixers	1.50	1.50
Freight	1.25	1.50	Scrap Choppers	1.25	1.50	Sludge Collectors	1.25	1.25
Gravity Discharge	1.00	1.25	Shears	2.00	2.00	Thickeners	1.50	1.50
Extruders			Slitters	1.25	1.50	Vacuum Filters	1.50	1.50
General	1.50	1.50	Mills, Rotary Type			Screens		
Plastics-Var. Speed Dr.	1.50	1.50	Ball & Rod			Air Washing	1.00	1.25
Fixed Speed Drive	1.75	1.75	Spur Ring Gear	2.00	2.00	Rotary-Stone or Gravel	1.25	1.50
Rubber-Cont. Screw	1.75	1.75	Helical Ring Gear	1.50	1.50	Traveling Water Intake	1.00	1.25
Intermittent Screw	1.75	1.75	Direct Connected	2.00	2.00			
Fans			Cement Kilns	1.50	1.50	Sugar Industry		
Centrifugal	1.00	1.25	Dryers & Coolers	1.50	1.50	Beet Slicer	2.00	2.00
Cooling Towers	2.00	2.00		1.25	1.50	Cane Knives	1.50	1.50
Forced Draft	1.25	1.25	Mixer, Concrete			Crushers	1.50	1.50
Induced Draft	1.50	1.50	Paper Mills(See Note 1)			Mills(low speed end)	1.75	1.75
Industrial & Mine	1.50	1.50	Agitators(Mixer)	1.50	1.50	Textile Industry		
Feeders			Agitator for Pure Liquors	1.25	1.25	Batchers	1.25	1.50
Apron or Belt	1.25	1.50	Barking Drums	2.00	2.00	Calenders	1.25	1.50
Disc	1.00	1.25	Barkers-Mechanical	2.00	2.00	Cards	1.25	1.50
Reciprocating	1.75	2.00	Beater	1.50	1.50	Dry Gans	1.25	1.50
Screw	1.25	1.50	Breaker Stack	1.25	1.25	Dryers	1.25	1.50
Food industry			Calender	1.25	1.25	Dyeing machinery	1.25	1.50
Cereal Cooker	1.00	1.25	Chipper	2.00	2.00	Looms	1.25	1.50
Dough Mixer	1.25	1.50	Chip Feeder	1.50	1.50	Mangles	1.25	1.50
Meat Grinders	1.25	1.50	Coating Rolls	1.25	1.25	Nappers	1.25	1.50
Slicers	1.25	1.50	Conveyors-Chip, Bark, Chemical	1.25	1.25	Pads	1.25	1.50
Generators & Exciters	1.00	1.25	-Log(including Slab)	2.00	2.00	Slashers	1.25	1.50
Hammer Mills	1.75	2.00	Couch Rolls	1.25	1.25	Soapers	1.25	1.50
Hoists	Δ	Δ	Cutter	2.00	2.00	Spinners	1.25	1.50
Laundry tumblers	1.25	1.50	Cylinder Molds	1.25	1.25	Tenter Frames	1.25	1.50
Laundry Washers	1.50	2.00	Dryers(Anti-Frcition, bearings)	1.25	1.25	Washers	1.25	1.50
			Embosses	1.25	1.25	Winders	1.25	1.50

*Foot Note : See Page8