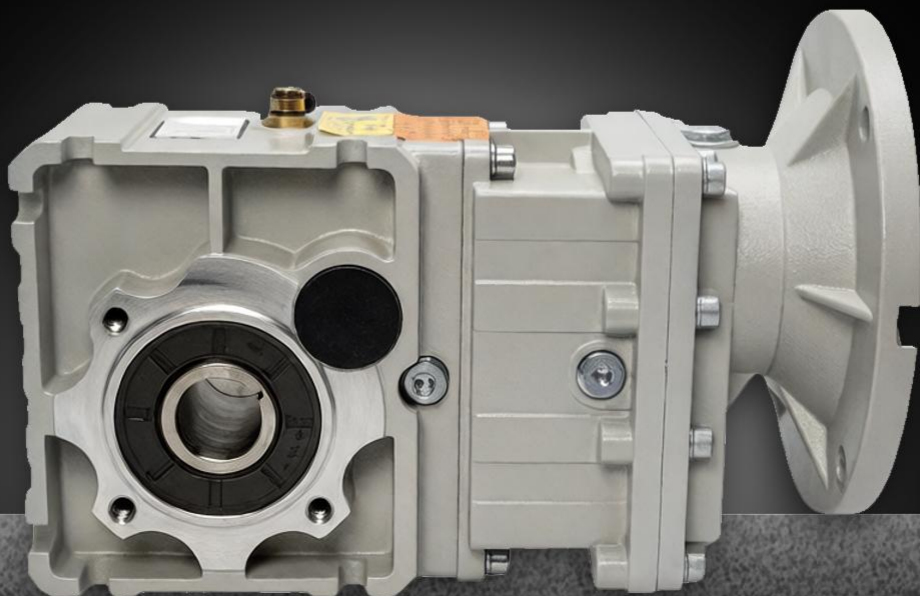


RIGHT ANGLE
HYPOID SPEED
REDUCERS

Σ SIEGMA

SPEED REDUCERS



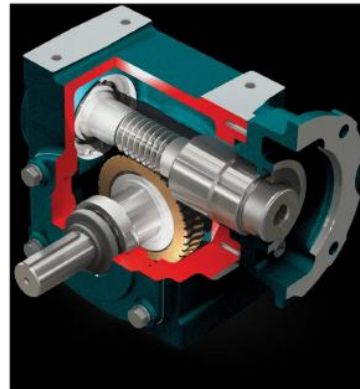
Hypoid vs. Worm Gear Reducers

The key difference: Hypoid gears roll together while worm gears rub against each other.

Characteristic	Hypoid Gear	Worm Gear
Efficiency	90-98% typical	35-90% (ratio dependent)
Heat Generation	Low	High (sliding friction)
Service Life	20,000+ hours typical	10,000-15,000 hours typical
Torque Capacity	High (multiple tooth contact)	Moderate
Backlash	Low and consistent	Increases with wear
Reversibility	Fully reversible	Often self-locking



Hypoid Gearbox



Worm Gearbox

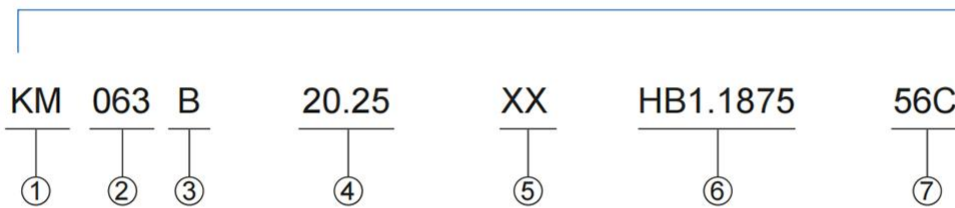


Worn Bronze Worm Wheel — Typical Sliding Friction Damage

Nomenclature



Gear Unit



NO.	Description	Options
1	Series	Code for gear units series: KM
2	Size	Specification code of gear units 050, 063, 075, 090, 110
3	Stages	1. B: Means 2 stages 2. C: Means 3 stages
4	Ratio	Speed ratio of reducer refer to sizing chart on Page ##
5	Output Flange	1. XX means without output flange 2. FAL, FBL, FCL, FDL, FEL, FAR, FBR, FCR, FDR, FER. See selection & Sizing chart on Page ##. 3. TAL = Torque Arm Left, TAR = Torque Arm Right
6	Shaft Options	1. HB means hollow bore (Ex. HB1.1875 means 1.1875" Hollow Bore) 2. SSL, SSR (Ex. SSL1.00 Solid Output Shaft Left 1")
7	Input Flange Code or Shaft Input	Input Flange Options: 56C, 140TC, 180TC, 210TC

Catalog

Model	Ratio	Bore Size	Input Flange
KM050B-7.73-XX-HB1.00-56C	7.73	1.00"	56C
KM050B-10.47-XX-HB1.00-56C	10.47	1.00"	56C
KM050B-12.47-XX-HB1.00-56C	12.47	1.00"	56C
KM050B-14.92-XX-HB1.00-56C	14.92	1.00"	56C
KM050B-20.21-XX-HB1.00-56C	20.21	1.00"	56C
KM050B-24.07-XX-HB1.00-56C	24.07	1.00"	56C
KM050B-29.33-XX-HB1.00-56C	29.33	1.00"	56C
KM050B-48.96-XX-HB1.00-56C	48.96	1.00"	56C
KM050B-58.36-XX-HB1.00-56C	58.36	1.00"	56C
KM063B-7.6-XX-HB1.1875-140TC	7.6	1-3/16"	140TC
KM063B-10.5-XX-HB1.1875-140TC	10.5	1-3/16"	140TC
KM063B-12.67-XX-HB1.1875-140TC	12.67	1-3/16"	140TC
KM063B-14.67-XX-HB1.1875-56C	14.67	1-3/16"	56C
KM063B-20.25-XX-HB1.1875-56C	20.25	1-3/16"	56C
KM063B-24.44-XX-HB1.1875-56C	24.44	1-3/16"	56C
KM063B-30.31-XX-HB1.1875-56C	30.31	1-3/16"	56C
KM063B-39.29-XX-HB1.1875-56C	39.29	1-3/16"	56C
KM063B-48.71-XX-HB1.1875-56C	48.71	1-3/16"	56C
KM063B-60.5-XX-HB1.1875-56C	60.5	1-3/16"	56C
KM075B-7.48-XX-HB1.1875-140TC	7.48	1-3/16"	140TC

Catalog

Model	Ratio	Bore Size	Input Flange
KM075B-9.84-XX-HB1.1875-140TC	9.84	1-3/16"	140TC
KM075B-12.49-XX-HB1.1875-140TC	12.49	1-3/16"	140TC
KM075B-15.09-XX-HB1.1875-140TC	15.09	1-3/16"	140TC
KM075B-19.84-XX-HB1.1875-140TC	19.84	1-3/16"	140TC
KM075B-25.19-XX-HB1.1875-140TC	25.19	1-3/16"	140TC
KM075B-30.24-XX-HB1.1875-140TC	30.24	1-3/16"	140TC
KM075B-40.13-XX-HB1.1875-56C	40.13	1-3/16"	56C
KM075B-48.18-XX-HB1.1875-56C	48.18	1-3/16"	56C
KM075B-59.44-XX-HB1.1875-56C	59.44	1-3/16"	56C
KM090B-7.48-XX-HB1.4375-140TC	7.48	1-7/16"	140TC
KM090B-9.84-XX-HB1.4375-140TC	9.84	1-7/16"	140TC
KM090B-12.49-XX-HB1.4375-140TC	12.49	1-7/16"	140TC
KM090B-15.09-XX-HB1.4375-140TC	15.09	1-7/16"	140TC
KM090B-19.84-XX-HB1.4375-140TC	19.84	1-7/16"	140TC
KM090B-25.19-XX-HB1.4375-140TC	25.19	1-7/16"	140TC
KM090B-30.24-XX-HB1.4375-140TC	30.24	1-7/16"	140TC
KM090B-40.13-XX-HB1.4375-140TC	40.13	1-7/16"	140TC
KM090B-48.18-XX-HB1.4375-140TC	48.18	1-7/16"	140TC
KM090B-59.04-XX-HB1.4375-140TC	59.04	1-7/16"	140TC

