M. HANIF & SONS

Industrial gearboxes, gearmotors and vacuum pumps

TECHNICAL DATASHEET

Ref: MHS-HEAVY-DUTY-W

INDUSTRIAL GEARBOXES & WORM SPEED REDUCERS

Heavy-Duty Industrial Worm Gear Reducer

A heavily ribbed cast-iron, right-angle worm speed reducer engineered for high shock loads, brick kilns, sugar mills, and continuous industrial machinery in Pakistan.

DRIVE	HOUSING	GEARING
90° Right angle	**Ribbed cast iron**	**Alloy worm, bronze gear**

TECHNICAL SPECIFICATIONS

Gear type	**Heavy-duty worm speed reducer**
Reduction ratios	**1:10 to 1:60 standard (higher via double stage)**
Shaft arrangement	**Right angle (90°), solid input & output shafts**
Housing	**Heavily ribbed cast iron with cooling fins**
Worm shaft	**Precision-ground hardened alloy steel**
Worm gear	**High-grade phosphor bronze**

* Frame size, shaft diameter, and ratio selected against your motor kW and shock duty factor.

KEY DESIGN HIGHLIGHTS

- Thick-walled ribbed cast-iron housing with cooling fins
- Case-hardened alloy steel worm + high-grade bronze gear wheel
- Heavy-duty solid input & output shafts for high radial load
- Standard reduction ratios 1:10 to 1:60 (double reduction available)
- High shock-load resistance for harsh plant environments

TYPICAL INDUSTRIAL APPLICATIONS

- Brick kilns, clay pug mills & stone crusher feeders
- Sugar cane conveyors & heavy bulk material handling
- Rice mills, grain bucket elevators & feed plants
- Drop-in replacement for legacy Radicon & heavy WP reducers

ENGINEERING OVERVIEW

This heavy-duty worm reduction gearbox is engineered for high-torque, shock-loaded industrial equipment operating across Pakistan. Its deeply ribbed close-grained cast-iron housing maximizes surface cooling and housing rigidity under heavy radial and overhung loads.

Equipped with precision-ground hardened alloy steel worm shafts and high-grade phosphor-bronze worm wheels, it delivers smooth torque multiplication in reduction ratios from 1:10 to 1:60—providing a rugged drop-in upgrade for heavy factory conveyors, crushers, and kiln drives.