M. HANIF & SONS

Industrial gearboxes, gearmotors and vacuum pumps

TECHNICAL DATASHEET

Ref: MHS-WPA-CAST-IRO

INDUSTRIAL GEARBOXES & WORM SPEED REDUCERS

WPA Series Heavy-Duty Cast-Iron Worm Gearbox

Standard WP / WPA cast-iron right-angle worm speed reducer (ratios 1:10–1:60) built for belt conveyors, brick plants, and industrial machinery across Pakistan.

SERIES	RATIOS	HOUSING
WPA / WP (40–200)	**1:10 to 1:60**	**Cast iron**

TECHNICAL SPECIFICATIONS

Series	**WPA (also WPS / WPO / WPD / WPDS configurations)**
Available frame sizes	**WPA 40, 50, 60, 70, 80, 100, 120, 135, 155, 175, 200**
Reduction ratio range	**1:10 to 1:60 (double stage for 1:200–1:900)**
Shaft arrangement	**Right angle (90°), solid input and output shafts**
Housing & Gearing	**Close-grained cast iron + bronze worm wheel**
Oil check	**Integrated sight glass**

* Common WPA sizes held ready in Lahore for same-day dispatch across Pakistan.

KEY DESIGN HIGHLIGHTS

- Full WPA / WPS / WPD size range (40 mm to 200 mm centers)
- Heavy cast-iron housing superior to light aluminum units under load
- Precision-machined bronze worm gear & alloy steel worm
- Standard ratios 1:10, 1:15, 1:20, 1:30, 1:40, 1:50, 1:60
- Clear oil level sight glass & solid shafts

TYPICAL INDUSTRIAL APPLICATIONS

- Belt & roller conveyor systems in factories & warehouses
- Brick plant molding machines & soil mixers
- Textile dyeing jiggers, packaging lines & poultry feed augers
- Heavy upgrade where aluminum NMRV worm gearboxes fail under heat

ENGINEERING OVERVIEW

Widely specified across Brandreth Road and industrial estates in Lahore, Gujranwala, Faisalabad, and Karachi, the WPA series cast-iron worm gearbox provides rugged speed reduction and torque multiplication at a competitive cost. Unlike lightweight aluminum NMRV housings, thick cast-iron WPA bodies resist flange cracking and vibration fatigue.

Available across popular center distances (WPA 40, 50, 60, 70, 80, 100, 120, 135, 155, 175, 200) with ratios from 1:10 to 1:60, precision bronze worm wheels, solid input/output shafts, and an integrated oil-level sight glass. WPS, WPD, and WPDS configurations are also supported upon enquiry.