

SMSR



“RMSM Series”

Rotomake Shaft Mounted Speed Reducers (SMSR Gearbox) are engineered for reliable power transmission in heavy industrial applications. Designed with high mechanical strength, optimum torque transmission, and long-lasting performance, these SMSR gearboxes offer easy mounting directly on the driven shaft. Rotomake SMSR units are widely used in conveyor systems, crushers, material handling equipment, mining, quarry plants, and mechanical power transmission applications.

Rotomake SMSR gearboxes deliver smooth and efficient power transfer, reduced maintenance, and exceptional load-carrying capability. With robust alloy steel gears, precision machining, and high-grade bearings, these gearboxes ensure long service life even under continuous and demanding operations.

KEY FEATURES

- Heavy-duty shaft-mounted design, High torque output
- Precision alloy steel gears (case hardened & profile ground), Bearings designed for longer life
- Easy installation and alignment-free setup, Suitable for harsh industrial environments
- Available with torque arm for stable mounting, Option for backstop (anti-runback)
- Grease- or oil-lubricated variants, High efficiency & low noise levels

TECHNICAL SPECIFICATIONS

- Models: Standard Sizes A, B, C, D, E, F, G, H
- Power Range: 2 HP to 75 HP
- Gear Ratio Options: 5:1, 13:1, 20:1
- Output Speed: 70 to 280 RPM (based on ratio)
- Torque Capacity: Up to 18,000 Nm (depending on model)
- Mounting Type: Shaft Mounted with Torque Arm
- Input Type:
 - Motorized Pulley Drive
 - V-Belt Drive
 - Direct Motor Mounting (optional)
- Gear Material: Nickel Chromium Alloy Steel (hardened & ground)
- Housing Material: High-grade cast iron / SG iron
- Bearings: Heavy-duty roller bearings
- Backstop Unit: Optional anti-runback mechanism
- Lubrication:
 - Grease lubrication (standard)
 - Oil bath lubrication (optional)
- Temperature Range: -10°C to +120°C

ADVANTAGES

- Compact, space-saving design
- Direct shaft mounting eliminates base plates
- Low maintenance & easy service
- High load-bearing capacity
- Smooth & silent operation
- Enhanced efficiency with optimized gear profile
- Long operational life even in dusty or harsh environments

APPLICATIONS

- Conveyor Systems
- Stone Crushers & Screening Plants
- Cement Industries
- Mining & Quarry Applications
- Sand & Aggregate Handling
- Fertilizer Plants
- Steel Plants & Material Handling, Power Transmission Systems, Packaging & Processing Machinery