



Precision Steel Bright Bars for Elevator Shafts, Crane Shafts & Industrial Lifting Equipment

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In the world of heavy construction and industrial infrastructure, reliability isnâ??t just important â?? itâ??s mandatory. Steelmet Industries provides high-performance cold drawn steel bright bars engineered specifically for elevator systems, crane mechanisms, and industrial lifting equipment, where failure is never an option.

Why Shaft Quality Matters in Vertical Transportation teels

Lifting equipment operates under:

- Constant dynamic loads (sudden starts/stops)
- **High torsional stress** (twisting forces)
- Cyclic fatigue (repeated use over decades)
- Environmental exposure (temperature swings, humidity)

Our bright bars deliver:

- a?? Consistent dimensional tolerance for perfect bearing fits
- a?? Superior straightness to prevent vibration
- â?? Fatigue life 3X industry standard
- â?? Custom lengths for seamless installation

Critical Applications



1. Elevator Shafts

- Guide rails for smooth cab movement
- Counterweight shafts in high-rise buildings
- Hydraulic piston rods for low-rise systems

2. Crane Systems

- Rotation shafts for tower crane slewing units
- Hoist drum shafts in overhead cranes

 Boom extension rods for mobile cranes

 Cels, Stainless Steels Hoist drum shafts in overhead cranes

3. Industrial Lifting

- Scissor lift actuator rods
- · Warehouse conveyor drive shafts

Technical Specifications

Grade	Hardness (HRC)	Tensile Strength (MPa)	Key Advantage	Best For
EN19	28-32	850-1000	Impact resistance	Mobile crane shafts
EN24	32-36	1000-1200	Fatigue strength	Elevator guide rails
EN10083-3	38-42	1200+	Wear resistance	Hoist drum shafts

^{*}All grades available with optional:

• Phosphating for corrosion protection



- Pre-machining to reduce installation time
- Ultrasonic testing for defect detection*

Why Steelmet Leads in Infrastructure Solutions

- a?? On-site technical consultations for load calculations
- â?? Batch traceability with mill test certificates
- â?? Just-in-time delivery to keep projects on schedule
- a?? Custom alloy development for extreme environments

Browse our construction lifting equipment specialists to a lifting equipment equi Browse our construction-grade bright bars at Steelmet Industriesâ?? website or contact our

- 5. industrial shafts
- 6. infrastructure materials
- 7. lifting equipment
- 8. Precision Steel Bars
- 9. steel bright bars

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