



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

net Industrie 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

<sup>\*</sup>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-grade bright bars at Steelmet Industriesâ?? website or contact our specialists io...

Cee Cutting Steels, Stainless Steels

Steels lifting equipment specialists today.

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1. Posts

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- 1. crane components
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- 3. EN24 steel
- 4. hoist mechanisms
- 5. industrial shafts
- 6. infrastructure materials
- 7. lifting equipment
- 8. Precision Steel Bars
- 9. Barres d'acier brillant

#### **Date**

29/10/2025

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