

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

Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

**Description**

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

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:
â?? **Consistent dimensional tolerance** for perfect bearing fits
â?? **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

### 3. Industrial Lifting

- **Forklift mast channels**
- **Scissor lift actuator rods**
- **Warehouse conveyor drive shafts**

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## 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

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

**Browse our construction-grade bright bars at Steelmet Industriesâ?? website or contact our lifting equipment specialists today.**

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