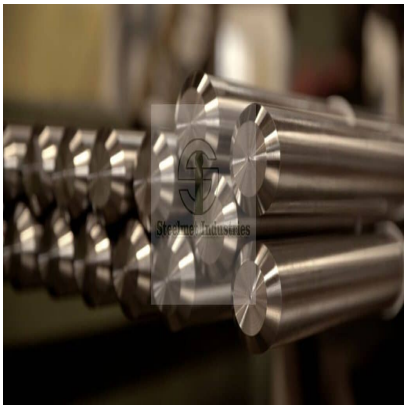

Precision Steel Bright Bars for Elevator Shafts, Crane Shafts & Industrial Lifting Equipment

Description

In the world of **heavy construction and industrial infrastructure**, reliability isn't just important – it'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.

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

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:
? **Consistent dimensional tolerance** for perfect bearing fits
? **Superior straightness** to prevent vibration
? **Fatigue life 3X industry standard**
? **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

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

Browse our construction-grade bright bars at Steelmet Industries' website or contact our lifting equipment specialists today.

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