

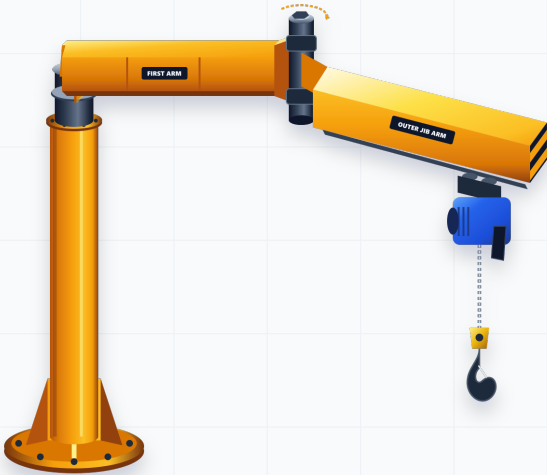
INDUSTRIAL HEAVY-DUTY EQUIPMENT

Rev 2.4 - 2026 Series

ARTICULATING FOLDABLE JIB CRANE

MODEL SERIES: INDUCT-FOLDABLE-JIB-CRANE | DOCUMENT: TECHNICAL DATASHEET

3D ISOMETRIC ENGINEERING SCHEMATIC



Engineered & Manufactured in India by Induct Crane System Pvt. Ltd. | Standard: IS 3177 / IS 807 / FEM 2m

CAPACITY RANGE

250 kg - 500 kg

COMBINED REACH

3m - 5m

LIFTING HEIGHT

3m - 6m

ARM ROTATION

Dual 270/360 deg

EXECUTIVE OVERVIEW

Induct Crane Articulating / Foldable Jib Cranes feature a unique two-piece jointed horizontal arm connected by a precision pivot bearing hinge. Unlike rigid straight-arm jib cranes, the articulating arm can fold and navigate effortlessly around building pillars, machine tools, and reach deep into machine interiors and tight work cells.

1. PRODUCT OVERVIEW & DESIGN CHARACTERISTICS

Induct Crane Articulating / Foldable Jib Cranes feature a unique two-piece jointed horizontal arm connected by a precision pivot bearing hinge. Unlike rigid straight-arm jib cranes, the articulating arm can fold and navigate effortlessly around building pillars, machine tools, and reach deep into machine interiors and tight work cells.

TYPICAL APPLICATION & PURPOSE

Precision parts loading into CNC lathe/milling machine enclosures, mold changing in presses, and cramped workstation lifting.

OPERATING ENVIRONMENT

Indoor machine shops, electronics assembly bays, injection molding cells, and toolrooms.

2. STRUCTURAL CONFIGURATIONS & ENGINEERING VARIANTS

ARTICULATING FOLDABLE JIB (PILLAR MOUNTED)

Free-standing pillar mast with dual jointed articulating arms. Inner arm slews 180-270 deg, outer arm rotates up to 360 deg.

Capacity: 250 kg to 500 kg | Dual Arm Reach: 3m to 5m | Lift Height: 3m to 6m

3. CODIFIED DESIGN STANDARDS & COMPLIANCE

IS 3177: 1999	Code of Practice for Electric Overhead Travelling Cranes and Gantry Cranes
IS 807: 2006	Design, Manufacture, Erection and Testing of Cranes and Hoists
FEM 9.511 / 2m	Federation Europeenne de la Manutention Rules for the Design of Hoisting Appliances
ISO 4301 / M5-M6	Cranes and Lifting Appliances Classification of Duty Cycles and Mechanisms

4. COMPREHENSIVE TECHNICAL SPECIFICATIONS

Engineering Parameter	Manufacturing Specification / Value Range
Lifting Capacity Range	250 kg - 500 kg
Arm Reach / Radius (m)	3m - 5m (Combined Reach of Primary & Secondary Arms)
Lifting Height (m)	3m - 6m (Under-Arm Clearance)
Slewing / Rotation Angle	Primary Arm: 180 deg-270 deg Secondary Arm: 300 deg-360 deg
Structural Configuration	Free-Standing Pillar with Dual-Articulated Jointed Arm
Duty Classification	FEM 2m ISO M5 IS 3177 Class II
Hoisting Speed	4 - 8 m/min (Precision Electric Chain Hoist / Balancer)
Articulating Joint Hinge	Heavy-Duty Dual Sealed Roller Bearing Pivot Pin
Power Supply Voltage	415V / 230V, 50Hz, AC
Control System	Ergonomic Push-Button Pendant & Sensitive Hand-Grip Control
Foundation Mounting	Heavy Base Flange with High-Tensile Anchor Fasteners
Hook Block Assembly	Precision Load Hook with 360 deg Swivel & Safety Latch
Obstacle Navigation	Capable of folding backwards and reaching around structural columns

5. MAJOR ENGINEERING COMPONENTS & NUMBERED BREAKDOWN

01 HEAVY-DUTY PILLAR MAST Structural steel tube pillar with heavy gusseted base plate offering extreme	02 PRIMARY SLEWING PIVOT Precision bearing assembly allowing smooth 180 deg-270 deg rotation of the f
03 INNER PRIMARY JIB ARM Rigid hollow structural arm connecting the column to the central articulatin	04 ARTICULATING JOINT PIVOT Sealed dual-bearing vertical hinge joint enabling smooth folding of the oute
05 OUTER SECONDARY JIB ARM Lightweight, high-rigidity articulated arm carrying the terminal hoist suspe	06 PRECISION HOIST / BALANCER Electric chain hoist or tool balancer mounted at the end of the outer arm.
07 FOUNDATION BASE FLANGE Reinforced steel base plate engineered for secure anchoring to workshop conc	

6. APPLICATIONS & INDUSTRIES SERVED	7. SAFETY & PROTECTION SYSTEMS
- CNC Machine Tool Interior Loading - Automotive Assembly Line Work Cells - Injection Molding Die Changes - Electronics & Appliance Assembly - Obstacle-Dense Production Bays	[+] Joint Travel Cushion Dampers and Mechanical Stops [+] Electronic Overload Slip Clutch [+] Hoist Upper and Lower Limit Switches [+] Low-Effort Joint Rotation [+] Emergency Stop Push Button

8. ENGINEERING & PROJECT CUSTOMIZATION
- [*] Custom Arm Ratios: Engineered length ratio between primary and secondary arms for specialized machine doorways.
 - [*] Tool Balancer Integration: Zero-gravity spring balancer integration for rapid component assembly.
 - [*] Wall Bracket Mounting: Direct column/wall mounting to free up 100% of the workshop floor space.

9. TECHNICAL & SITE INSTALLATION NOTES
- The articulating joint features sealed-for-life roller bearings requiring zero regular lubrication.
 - Ergonomic handle grip allows single-handed guiding of the payload directly at the workpiece location.

REQUEST A TECHNICAL QUOTATION & GA DRAWING

Contact our application engineering team for site-specific general arrangement (GA) drawings and quotations:

RAJKOT HEAD OFFICE & MANUFACTURING

Plot No. 6, Shivam Ind. Zone 4, Lodhika GIDC, Rajkot, Gujarat - 360021

Phone: +91 92658 85265, +91 99743 43099 | Email: sales@inductcranesystem.com

NORTH INDIA SALES & SERVICE OFFICE

Unit-2, E-20, Chakeri-2 Industrial Area, Chakeri, Kanpur, Uttar Pradesh

Phone: +91 75250 29204 | Web: <https://inductcranesystem.com>

Contact our engineering team for project-specific technical requirements.