

# ENGINEERING THE HAND OUT OF HAZARD

Transforming high-risk operations through systemic hands-free task redesign.



**PSC Hand Safety  
India Pvt. Limited**



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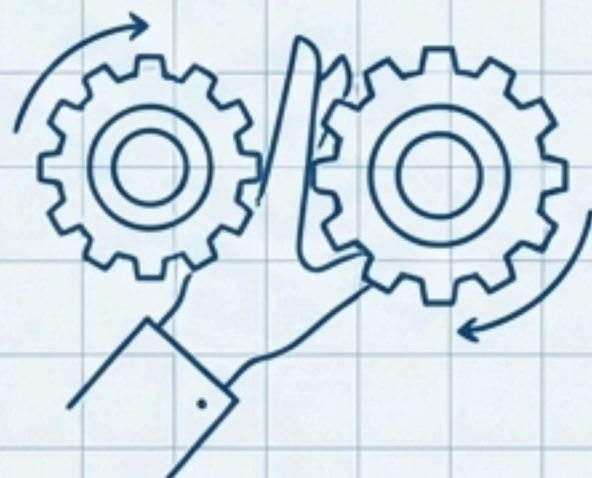


[pschandsfree.com](http://pschandsfree.com)

# The Most Vulnerable Asset in Heavy Industry

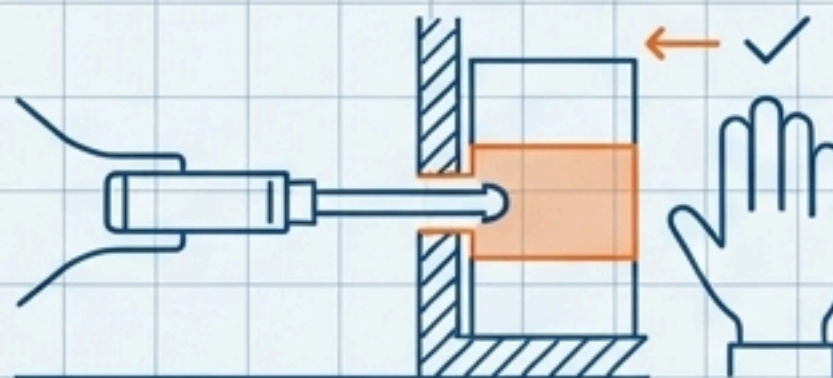
# 50%+

of all workplace injuries  
involve hands & fingers.



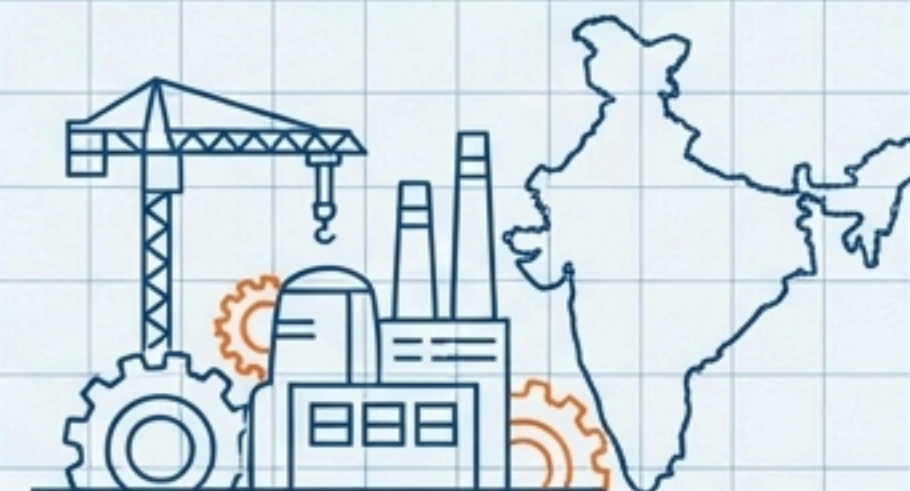
# 85%

reduction in recorded  
hand injuries reported  
with no-touch tools.

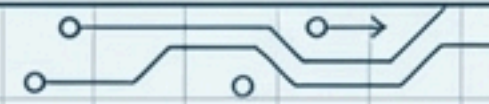


# 10+

years serving heavy  
industry in India.







**If hands are part of the task — the task needs to change.  
No-Touch Safety is a standard way of working.**







# From Hands-On Risk to Hands-Free Operations

## The Past

-  Behavior-Based Safety
-  Relying on supplementary PPE (Gloves)
-  Bare hands and improvised ropes
-  Workers positioned directly in the Line-of-Fire

## The Future

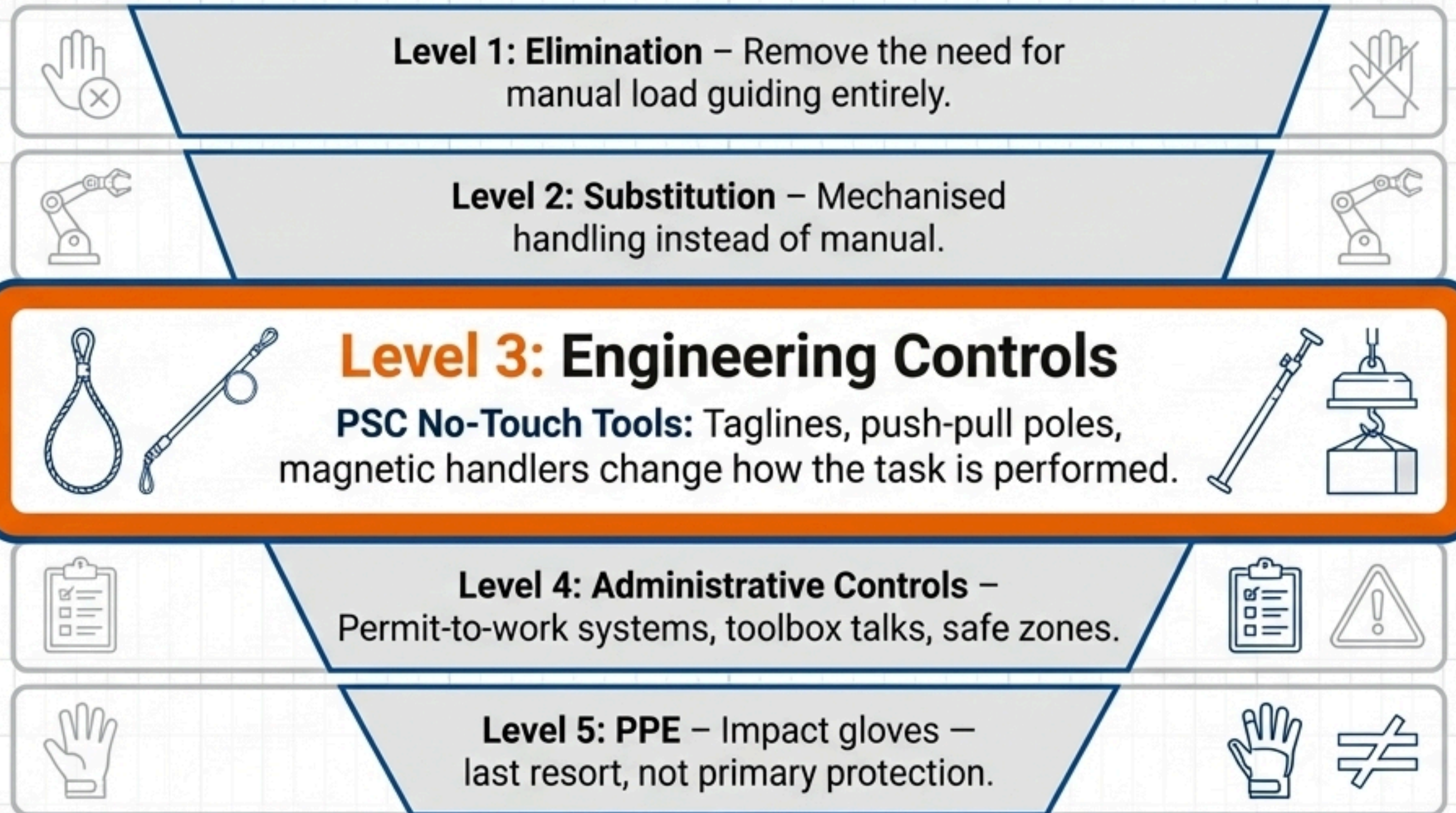
-  System-Based Safety
-  Primary Engineering Controls
-  Certified hands-free load control and positioning
-  Hands physically separated from hazardous energy zones



# The Right Level of Intervention



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Hands-free tools are not supplementary PPE; they are the primary engineering control that ensures personnel are never in the line of fire.

# Routine Operations, Critical Exposures



## Rig Floor Hazards

- Pinch points during pipe make-up and break-out
- Finger crush zones at the rotary table
- Hand injuries from manual tubular stabbing
- Drop object strike zones
- Chisel and punch handling without tool holders



## Crane & Lifting Hazards

- ⚠ Hands entering load fall zones during crane picks
- ⚠ Manual tagline guiding of suspended loads
- ⚠ Load swing onto personnel near pick points
- ⚠ Rope entanglement and hand lacerations
- ⚠ Tubular & spool piece alignment by hand

# Intercepting the Hazard Through Design



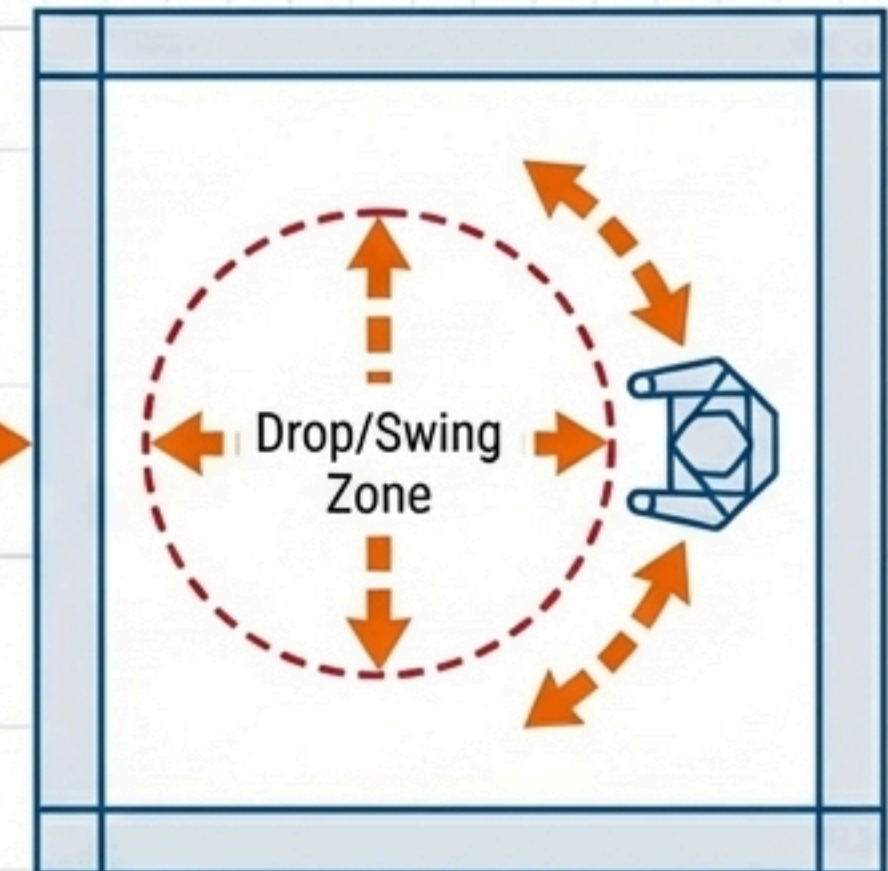
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Operational necessity requires positioning, guiding, or stabilizing heavy loads.

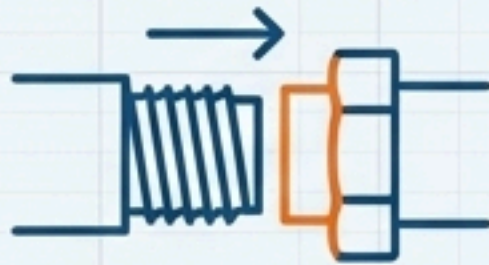


PSC hands-free tool intercepts the workflow. Replaces bare hands and improvised ropes.



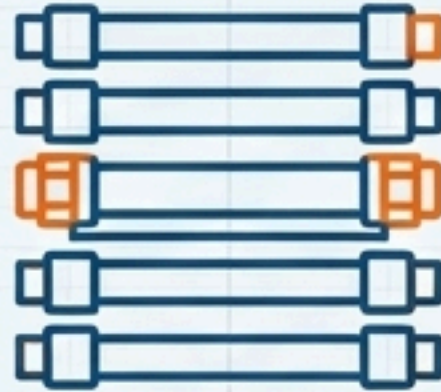
Operator is structurally forced outside the Drop/Swing Zone. Zero contact achieved.

# Operational Blueprint: Drilling & The Rig Floor



## Pipe Stabbing & Alignment

- Keep hands completely clear of the connection area and rotary table.
- Utilize **Pipe Stabbing Guides** (3", 5", 5-1/2") to prevent thread damage and pinch risks.



## Drill String Tripping

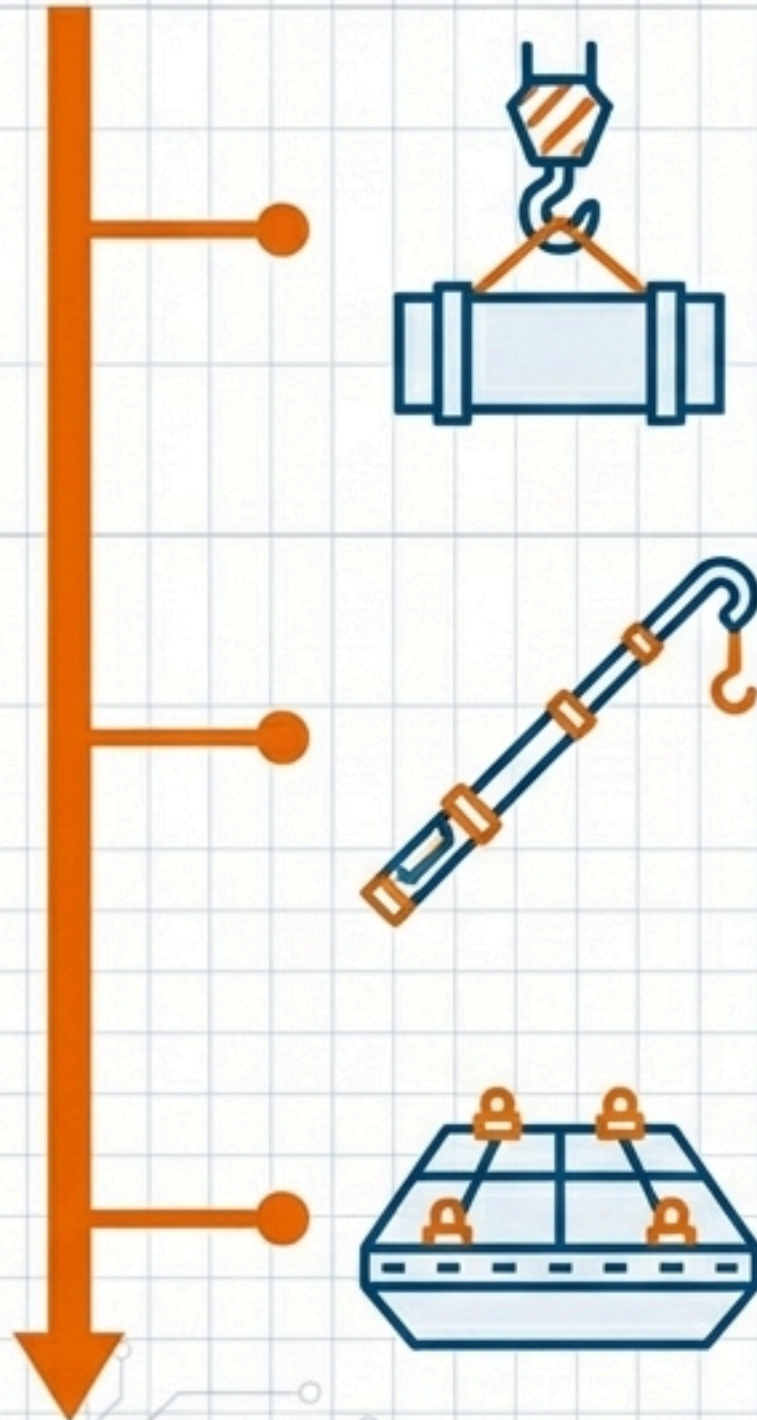
- Rack pipe and manage tubulars without direct contact.
- Deploy **Tubular Guiders** for racking and **Fingersavers** for all flogging spanner break-out operations.



## Dropped Object Prevention

- Eliminate the need for bare hands near suspended tubulars above the drill floor.
- Deploy **Push/Pull poles** and **anti-tangle taglines** to manage heavy steel components safely.

# Operational Blueprint: Crane & Lifting



## Stage 1: Suspended Load Picks

- 100% replacement of improvised ropes.
- Deploy rigid, anti-tangle taglines (LoadGuider / SafeGuider) for knot-free control.

## Stage 2: Tagline Retrieval

- Retrieve taglines without entering the hazardous fall zone.
- Deploy extendable retrieval tools (collapsible 4ft to 12ft reach) for high-bay and blind lifts.

## Stage 3: Cargo Deck Operations

- Enable fast attachment without fingers entering the hook zone.
- Utilize Safety Rigger Taglines with safety-latch swivel hooks.

# Operational Blueprint: Maintenance & Subsea



## Flange & Bolt Work

Prevent struck-by injuries during maintenance fitter tasks on wellhead connectors and BOP flanges.



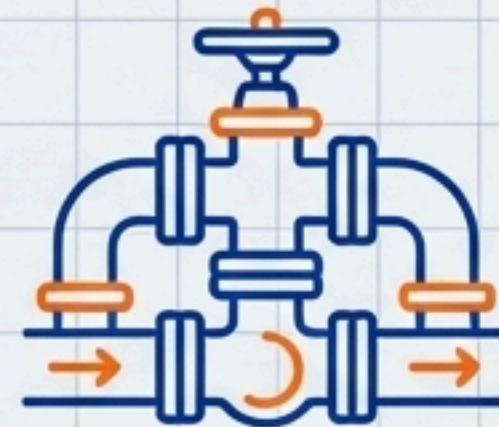
## Chisel & Punch Operations

Isolate hands from the strike zone during corrosion removal and metal punch tasks.



## Gas Cylinder Management

Eliminate awkward handling and drop incidents when moving oxygen, nitrogen, and process gas cylinders.



## Subsea & Pipeline Construction

Guide spool pieces, Christmas trees, and manifolds remotely using push/pull poles and specialized hooks.



# The Systemic Impact of No-Touch Safety



## Mandated Compliance

Solutions fully align with OSGP, IOGP Report 459, and DROPS engineering control mandates.



## Quantifiable Risk Reduction

Up to an 85% recorded reduction in hand injury rates by permanently separating workers from hazardous energy zones.



## Full Solutions Partner

Beyond equipment supply: dedicated hazard mapping, precise tool specification, and comprehensive site induction/toolbox talk training.



# Because Every Hand Matters

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