

Mechanical Bearing Puller Removal - JSA - C

en-US · Supervision, records, handover · v1.0 · 2026-10-14 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time		Location / area		Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Support and shield							
HP-2 Set grip and alignment							
HP-3 Hold stuck assembly							
HP-4 Inspect and transfer							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Removal scope	1. Wrong-fit loading 2. Retainer failure 3. Unreviewed method change	1. Assembly history missing 2. Rings not traced 3. Heating added informally	1. Verify part and fit records 2. Account for restraints 3. Limit approved removal method	1. Drawing and part IDs 2. Retainer disposition 3. Permitted tool method				
2. Load-path review	1. Jaw slip 2. Shaft displacement 3. Bearing projection	1. Grip face assumed strong 2. Support reaction ignored 3. Release path unplanned	1. Review bearing force path 2. Verify stable support 3. Plan released-part control	1. Grip and screw alignment 2. Support configuration 3. Shield and catch arrangement				
3. Tool readiness	1. Jaw fracture 2. Thread seizure 3. Configuration overload	1. Wear ignored 2. Wrong lubricant used 3. Reach exceeds model limit	1. Inspect complete puller 2. Apply model lubrication 3. Match rated configuration	1. Model and component IDs 2. Condition record 3. Rating reach and limits				
4. Loading supervision	1. Escalating overload 2. Loss of alignment 3. Bystander strike	1. Resistance not observed 2. Pipe extension proposed 3. Zone not maintained	1. Define observable stop signs 2. Restrict drive method 3. Control line-of-force access	1. Force and travel observations 2. Approved hand tool 3. Stop authority and zone				
5. Stuck-part recovery	1. Stored-force injury 2. Repeated tool failure 3. Unreviewed heating	1. Tool dismantled loaded 2. Cause unresolved 3. Alternative method improvised	1. Require controlled unloading 2. Inspect cause and damage 3. Authorize separate recovery	1. Residual-load state 2. Damage disposition 3. Revised method evidence				
6. Reuse decision	1. Damaged part installed 2. Defective tool recirculated 3. Lost inspection history	1. Removal equals reuse 2. Tool not tagged 3. Parts mixed	1. Separate removal and acceptance 2. Quarantine defective equipment 3. Retain part traceability	1. Bearing and shaft decision 2. Puller service status 3. Receiving owner and limits				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Drawing and part IDs	☐ Grip and screw alignment	☐ Model and component IDs
☐ Force and travel observations	☐ Residual-load state	☐ Bearing and shaft decision
☐ Permitted tool method	☐ Stop authority and zone	☐ Receiving owner and limits