

Mechanical Bearing Puller Removal - JSA - A

en-US · Basic task controls · 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. Identify parts and restraints	1. Retainer fracture 2. Sudden bearing release 3. Wrong fit removal	1. Ring or nut overlooked 2. Assembly history unclear 3. Fit type assumed	1. Confirm bearing and shaft 2. Locate retaining parts 3. Review specified removal	1. Part IDs and fit 2. Rings nuts and shoulders 3. Removal method basis				
2. Support and shield	1. Shaft roll or drop 2. Projected-part strike 3. Bearing fall	1. Support cannot resist force 2. Release path exposed 3. Catch support missing	1. Secure shaft on stable support 2. Provide specified shielding 3. Support released parts	1. Shaft and support stability 2. Release path and protection 3. Bearing and tool support				
3. Set grip and alignment	1. Jaw slip 2. Shaft-end damage 3. Off-axis release	1. Unequal engagement 2. Wrong screw-tip support 3. Screw not centered	1. Seat jaws on specified face 2. Protect shaft end correctly 3. Align screw with shaft	1. Jaw contact and retention 2. Screw and shaft center 3. Tip and end condition				
4. Apply manual force	1. Part projection 2. Jaw deformation 3. Tool overload	1. Impact tool added 2. Pipe extension used 3. Resistance ignored	1. Use permitted hand tool 2. Apply controlled force 3. Observe alignment changes	1. Force and displacement trend 2. Jaw and screw position 3. Support movement				
5. Recover released bearing	1. Dropped bearing 2. Residual-force release 3. Pinched hands	1. Support absent at release 2. Tool loosened under load 3. Part caught by hand	1. Maintain receiving support 2. Unload in specified sequence 3. Keep hands clear of release	1. Bearing supported 2. Residual loading controlled 3. Tool stable for removal				
6. Inspect and transfer	1. Sharp-edge cuts 2. Unfit bearing reuse 3. Defective puller reuse	1. Damage handling uncontrolled 2. Removal equals acceptance 3. Tool returned unmarked	1. Handle damaged edges safely 2. Assess parts separately 3. Tag defective puller	1. Shaft and bearing inspection 2. Reuse or rejection status 3. Puller condition record				

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

4. Pre-work checklist

☐ Part IDs and fit	☐ Shaft and support stability	☐ Jaw contact and retention
☐ Force and displacement trend	☐ Bearing supported	☐ Shaft and bearing inspection
☐ Removal method basis	☐ Support movement	☐ Puller condition record