USER MANUAL

NTN-SNR SELF-CENTER MECHANICAL PULLERS
Tool SCMP 2/3 series

Read instructions and follow carefully before using pullers
1. INTRODUCTION
These self-centering mechanical pullers are meant for dismantling of all kinds of shaft fitted parts.

**Operating conditions**
To be used in industrial environment

**User requirements**
This person should have basic technical knowledge. Only trained personnel should use these pullers.

**Principle operation**
The puller jaws grip around the part after which the push adapter is jacked from the centre of the shaft.

2. SAFETY PRECAUTIONS

! **WARNING: prevent personal injury**

- Select the proper size and capacity of puller for the job. This is determined by measuring “reach” and “spread” of the part to be pulled.
- Align the puller on the same centerline as the part being removed. Failure to align parts correctly can result in a dangerous operating situation.
- Wrap the work in a protective blanket before applying pressure to provide protection from injury caused by flying parts should a part ever break.
- Safety glasses must be worn at all times by the operator and anyone within sight of the puller.
- Always apply force gradually.
- Never heat the part to be removed when connected with the puller. Heating can result in damage of the puller.

3. PULLER SETUP AND OPERATION

Note: These pullers have a 2/3-way combination puller head. The 3-jaw combination is strongly recommended whenever the job space allows for it. Three jaws give a more secure grip and more even pulling force.

- Inspect pullers on arrival. Notify NTN-SNR if shipment is not in good order.
- Select the proper size and capacity of puller needed for the job. This is determined by measuring “reach” and “spread” of the part to be pulled.

**Figure 1:**
• Begin positioning the puller and puller jaws by turning the control nut in clockwise direction to close the jaws around the parts to be pulled.

Figure 2:

! WARNING: The adjusting lock nut must be fully engaged with the threads of the puller body.

• Position the jaws around the part to be pulled.
• Tighten the nut so that arms remain in place.
• Check and make final adjustments. The puller must be in the same centre line as the part to be pulled, jaws fully engaged and secure.

Figure 3

• Wrap safety blanket around the puller and part.
• Hold the puller with one hand and turn the main spindle with a T-wrench with the other hand, advancing the main shaft until the part is removed.
4. PARTS LIST

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Threaded Spindle Shaft</td>
</tr>
<tr>
<td>02</td>
<td>Spindle Shaft</td>
</tr>
<tr>
<td>03</td>
<td>Guide Socket</td>
</tr>
<tr>
<td>04</td>
<td>Main 2/3 way Cross head</td>
</tr>
<tr>
<td>05</td>
<td>Puller Jaw</td>
</tr>
<tr>
<td>06</td>
<td>Jaw Upper Bolt &amp; Nut</td>
</tr>
<tr>
<td>07</td>
<td>Jaw Strap</td>
</tr>
<tr>
<td>08</td>
<td>2/3 way Sliding Cross Head</td>
</tr>
<tr>
<td>09</td>
<td>Head Bolt &amp; Nut</td>
</tr>
<tr>
<td>10</td>
<td>Jaw Bolt &amp; Nut</td>
</tr>
<tr>
<td>11</td>
<td>Retaining Screw</td>
</tr>
</tbody>
</table>