

# 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***

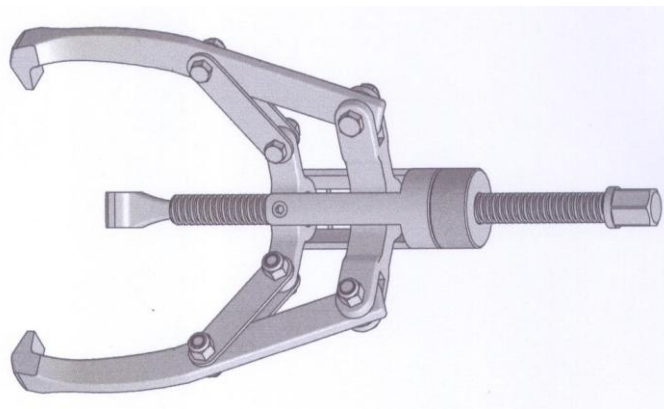
- Select the proper size and capacity of puller for the job. This is determined by measuring “reach” and “spread” of the part to be pulled.
- Align the puller on the same centerline as the part being removed. Failure to align parts correctly can result in a dangerous operating situation.
- Wrap the work 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.

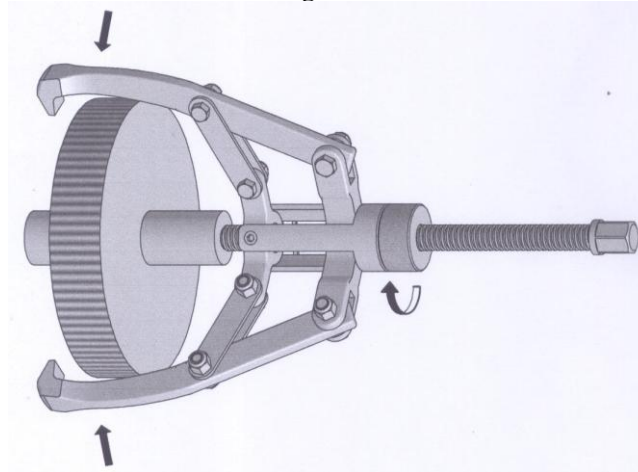
- Inspect pullers on arrival. Notify NTN-SNR if shipment is not in good order.
- Select the proper size and capacity of puller needed for the job. This is determined by measuring “reach” and “spread” of the part to be pulled.

**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.

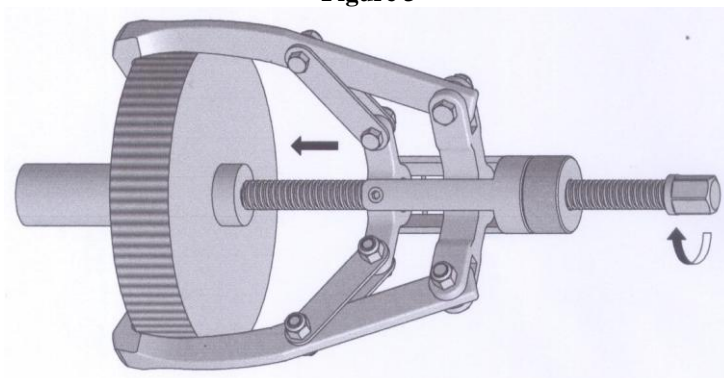
**Figure 2:**



**! 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

Ref. No.	Description
01	Threaded Spindle Shaft
02	Spindle Shaft
03	Guide Socket
04	Main 2/3 way Cross head
05	Puller Jaw
06	Jaw Upper Bolt & Nut
07	Jaw Strap
08	2/3 way Sliding Cross Head
09	Head Bolt & Nut
10	Jaw Bolt & Nut
11	Retaining Screw

