

## crmSeries™ Undercarriage Tools

There are several methods to determine the life remaining of a heavy equipment undercarriage. Some of the methods are, simple visual inspection of the components, use an ultrasonic meter to determine wear (**crmSeries™ offers a handheld ultrasonic meter that enters the measurement results directly into crmSeries™**), and or manually measure wear using a caliper (**crmSeries™ offers complete undercarriage toolkits**). However some of the undercarriage components are difficult if not impossible to accurately measure the amount of wear. One such set of components that have been neglected are the lower track rollers when protected by track roller guards, or sometimes referred to as rock guards.



The machine shown to the left (Komatsu D39PX-22) is a perfect example of a set of lower track rollers that are protected by track roller guards. **However, notice the crmSeries™ Track Roller Measurement**

**Tool that is connected to the lower track roller.** The crmSeries™ Track Roller Measurement Tool automatically centers itself on the lower track roller.

### What are the steps to use the crmSeries™ Measurement Tools?

1. Place the Measurement Pin into the crmSeries™ Track Roller Measurement Tool. The crmSeries™ Track Roller Measurement Tool comes in multiple sizes. Select the proper size that will fit over the lower track roller bold head. If the track roller does not have an exposed bold head, simply use the flat side of the tool. The magnetic core holds the crmSeries™ Track Roller Measurement Tool snugly against the track roller.
2. Using a metric steel ruler or metric tape measure, measure the distance from the tip of the Measurement Pin to the top of the

track shoe. This measurement will be entered into the crmSeries™ undercarriage form.



3. Using the crmSeries™ Measurement Bar, measure the track link height. This measurement will be entered into the crmSeries™ undercarriage form.



4. Next, log into crmSeries™ and search for the machine just measured. Select Action, Undercarriage, Record Inspection.

Rail Height:	Left:	Right:
TR 01:	0.0	94.0
TR 02:	0.0	0.0
TR 03:	0.0	179.0
TR 04:	0.0	0.0
TR 05:	0.0	0.0
TR 06:	0.0	0.0
TR 07:	0.0	0.0
TR 08:	0.0	0.0
TR 09:	0.0	0.0
TR 10:	0.0	0.0

Save Cancel

5. If the equipment has Full Rock Guards, select this option. Then select the TR Tool Button. This will open the crmSeries™ window to enter the measurements from step 2 and step 3. Select the Save Button.
6. On the Undercarriage Form, select the Calculate Wear Button or select Save. This will automatically calculate the life remaining of the lower track rollers and schedule the next visit on the PSSRs crmSeries™ task list.