Technical Service Information Bulletin

Slump Indicator Calibration Instructions

Date: 06-30-15
Bulletin Name: MXR-TSIB-026
Model: Standard Mixer and Bridgemaster V Mixer

Purpose:

McNeilus offers information on the calibration settings and use of the concrete slump indicator.

Notice:

- This bulletin should be read and understood in its entirety before performing this procedure.
- All procedures outlined in the bulletin must be performed by trained personnel. Refer to the product service manual for descriptions of maintenance procedures.

The concrete slump meter indicates the slump of the concrete by reading the hydraulic pressure required to turn the drum. This pressure remains reasonably constant for a wide range of load sizes; the only requirement being that the mixing blades be fully covered. The pressure required to turn a drum at a given slump will be different for each mixer because of differences in brand, size, age and drive ratios. This requires the slump indicator to be calibrated for each mixer it is installed on.

The slump indicator is calibrated by positioning pointers that are marked in inches of slump around the circumference of a hydraulic gauge. The pointers locate the pressure on the gauge that is required to turn the drum at a given slump.

When calibrating the indicator, the drum is loaded with the normal full load of concrete, at a slump that is less than the driest point that you wish to read on your indicator, for example, 3”. Water is then added to the concrete until a slump reading of 3” is obtained when the concrete is fully mixed. (This slump check may be obtained by using a standard slump cone test.) The mixer is then put in the full charge position with the truck engine at idle RPM. (Drum must be mixing to read indicator). The 3” slump pointer is now positioned in line with the gauge needle and secured, thereby calibrating the indicator for a 3” slump concrete mix. Add water and test for 4”, 5”, and 6” slump in the same manner. In order to accurately set the slump indicator, the concrete should mix for at least 40 revolutions before setting the pointer. The concrete should be thoroughly mixed before a slump reading is taken from the slump indicator.

Continuous Improvement:

The change included in this bulletin is part of the McNeilus® Continuous Improvement Process.

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