This bulletin is provided for technical reference and service related updates. If you have any questions, comments or do not wish to receive these e-mails, please reply to this e-mail or call the Service Technical Support Group 800 478-1244.

BLADE PITCH DRIFT TEST

Problem: HTX/STX trowel is experiencing the pitch of the blades bleeding off or drifting down during use (dynamic bleed off) or while not in use (static bleed off).

Action: Use the guidelines below to determine if the problem exists in the following components:

1. The spool type solenoid operated pitch control cartridge valves.
2. The load holding check valves.

NOTE: Make sure the blades are in good condition and do not have any flex that could lead to inaccurate measurements.

Dynamic Test: The following procedure should be used to determine if the dynamic blade pitch bleed off is in an acceptable range.

1. Bring oil temperature up to 140 degrees F Min.
2. Choose one blade from each spider and mark with small X to identify.
3. The marked blades should be the measured blades.
4. Then synchronize both blades to full pitch, then measure the distance from the floor to the pitched blade near the end of the arm and record.
5. Using the Twin pitch button, cycle the blades from flat to full pitch 8 times leaving the blades in the full pitch position on the eighth cycle.
6. Measure and record. Compare the measurement from step 4.
7. Drift of 3/16” or less is acceptable, proceed to static test below.

Static Test: The following procedure should be used to determine if the static blade pitch bleed off is in acceptable range.

1. Synchronize both blades to full pitch then measure and record.
2. Turn the engine off, leave for a 3 hour test period, then measure and record.
3. Compare the two measurements; drift exceeding 3/16” in three hours is unacceptable.