





Soft Tissue Injury Prevention Tool

Soft Tissue injury Prevention Tool	
Tip Sheets Trade: Demolition	
Job Task: Power Tool Demolition	
General Tasks	Common Tools
Breaking and removing excess concrete from	Jack Hammer
footings, walls and slabs.	Chipping Hammer/Bush Hammer/Rivet
Potential Risk Factors	Possible Solutions
Risk Factors can lead to increased risk for Work Related Musculoskeletal Disorders (WMSD's)	Awkward Posture Solutions:
Continuous Moderate Forward Back Bending	 Minimize sustained awkward postures by rotating to other tasks at least avery 2 hours
 Moderate Risk, May be a Higher Risk job if 	other tasks at least every 2 hours.Stretch frequently, particularly performing back
using a chipping hammer at or near ground	extension stretches to increase blood flow and reduce
level or using a jack hammer for extended periods.	muscle tension.
Continuous Squatting	High Grip Force & Vibration Solutions:
 Moderate Risk with frequent and sustained 	Vibration exposure may be minimized by: *tack ratetion at least every 2 hours:
periods of squatting. May be a Higher Risk job	*task rotation at least every 2 hours; *using lighter weight tools to reduce grip force
if using a chipping hammer at or near ground	requirements;
level for extended periods of time when removing excess concrete on footings, lower	*using low vibratory tools;
wall sections or columns.	*using anti-vibration gloves or vibration dampening
Continuous Kneeling with Knee Contact	materials limiting the use of heavy vibrating tools to 2- 4 hours a day;
 Moderate Risk with frequent and sustained 	*using pocket hand warmers to increase blood flow
periods of kneeling. May be a Higher Risk job if	and keep the hands warm during cold weather,
using a chipping hammer at or near ground level for extended periods of time. When	particularly when using vibrating equipment.
removing excess concrete on footings, lower	Potential Benefits
wall sections or columns.	 ✓ Increases productivity. ✓ Increases blood flow and reduce muscle tension.
High Hand Grip Force with Awkward Wrist	 ✓ Increases blood now and reduce muscle tension. ✓ Reduces strain on hand and arm muscles.
Postures	✓ Reduces exertion of lower back.
 Higher Risk when sustained high grip force often including awkward wrist postures when 	
holding chipping hammer.	
High Hand/Arm Vibrations and Whole Body	
Vibrations	
 Higher Risk when sustained vibration exposure when operating chipping hammer and lack 	
when operating chipping hammer and jack hammer for extended periods.	
Feasibility	
Engineer Control	
Anti-vibrator Gloves	
Engineer Control Knoo Bada with Valera Cleaver	
 Knee Pads with Velcro Closure Administrative Control 	
Work Place Practice	Sent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Estimated Cost of Intervention	
\$42.00 for Anti-vibrator Gloves	
 \$19.95 for pair of Knee Pads with Velcro 	and the second sec
closure	