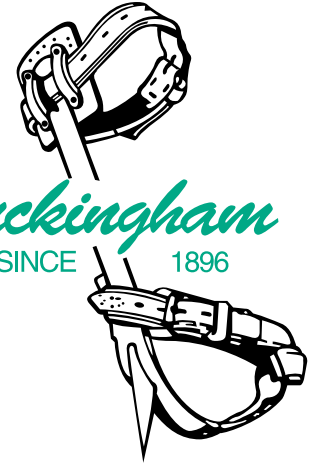


Quality + *Reliability* + *Flexibility* + *Innovation* = *Buckingham*
SINCE 1896



Fitness for Duty: Safety Implications Dealing with Today's Employee

Presented by Andy Batty
President, Buckingham Manufacturing Co. Inc.



Quality + Reliability + Flexibility + Innovation =



Challenges for a Heavier Employee

- Exceeding the weight limit of fall arrest equipment is dangerous.
- If workers cannot fit comfortably in PPE they may not wear it or work improperly.
- Rescue gear has capacity limits and in an accident rescue becomes more difficult and potentially deadly.
- Similar considerations required for weight limits on ladders, aerial lifts and bucket trucks.



Quality + Reliability + Flexibility + Innovation =



Challenges & Solutions for Heavier Workers

Revisions to Buckingham Products to Accommodate Heavier Workers

CHALLENGE

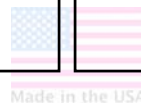
1. Weight Limit of 310 lbs:

- a) Climber Fatigue
- b) Climber Deformation
- c) Retractable Lifelines
- d) Body Belts
- e) Positioning Straps
- f) Harnesses
- g) Lanyards
- h) Shock Absorbing Lanyards

SOLUTION

1. Modify Test Equipment to Test to 350 lbs & Change Product Design as Required

- a) Fatigue Cycle Testing
- b) Deformation Test
- c) Retractable Lifelines
- d) Body Belts
- e) Positioning Straps
- f) Harnesses
- g) Lanyards
- h) Shock Absorbing Lanyards



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Challenges & Solutions for Heavier Workers

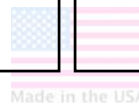
Revisions to Buckingham Products to Accommodate Heavier Workers

CHALLENGE

2. Climbers Flex
3. Climber Pad Inserts Bend
4. Users Over 350 lbs.
5. Wood Pole Fall Protection

SOLUTION

2. Increase Thickness from .188 to .250
3. Double Thick Insert
4. Custom Equipment with Waiver/Acceptance Letter for Oversize Product Request*
5. BuckSqueeze:
 - a) Harden CAM Frame
 - b) Grade 8 Bolt for CAM Buckle Assembly



*E.g. - Double Buck Stop pack for use with individuals up to 450 lbs.

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Future Considerations

Regulatory & Consensus Standards Need to Reflect the Realities of the Work Environment.

- Short Term:
 - Modify Test Criteria for Higher Body Weight
 - Continual Evaluation of Product Performance
 - Testing for Field Risks
- Long Term:
 - Implement Company Programs Promoting Healthy Lifestyle and Body Weight.

