

I cat (can't) wait to start.



#### **Vertical/Short Takeoff and Landing**





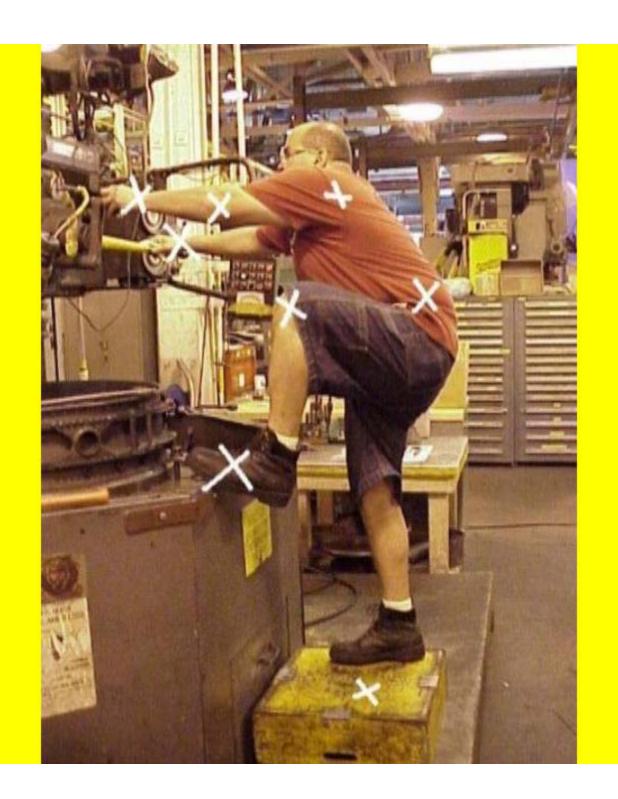


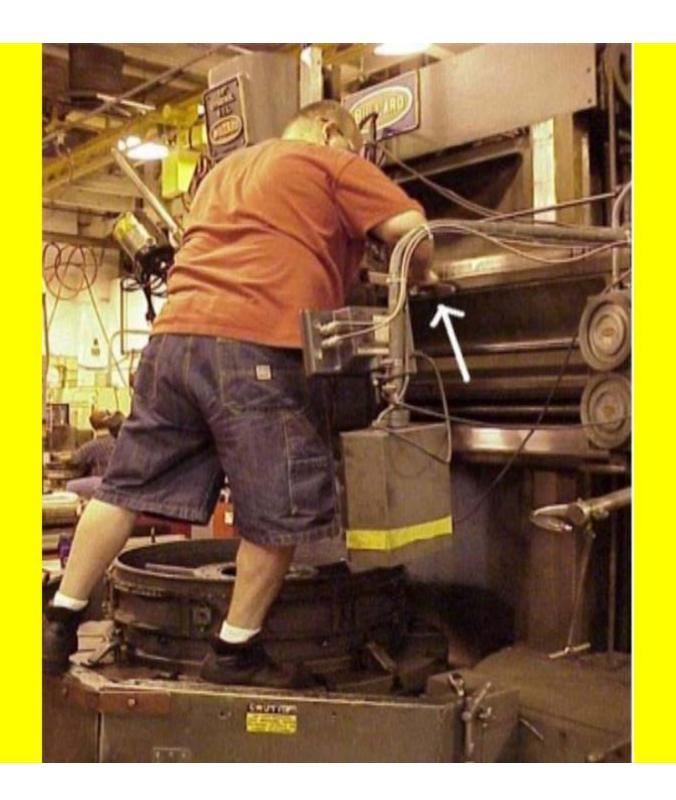


#### Elements For Funding

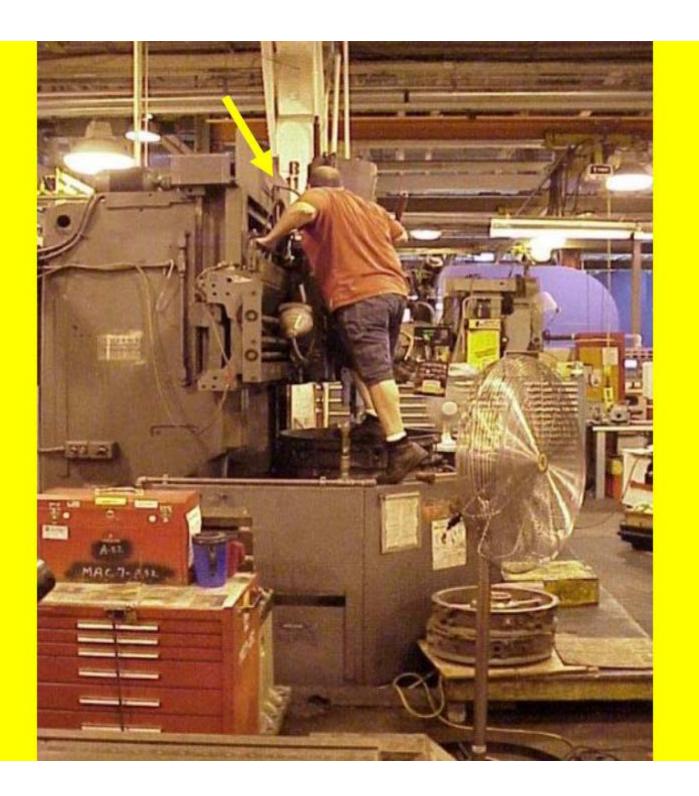
- 1.) Know your job functions. "Ergonomics"

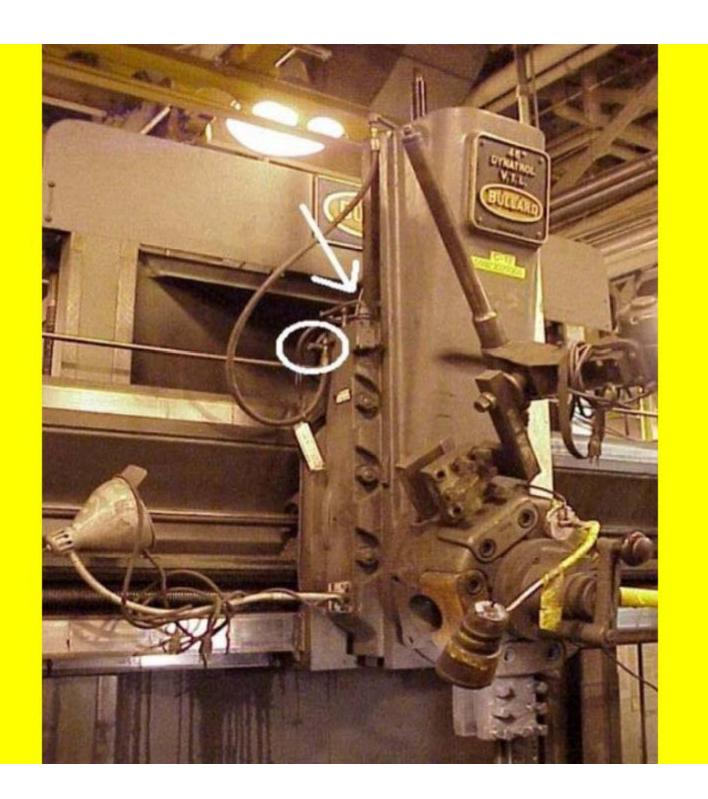
  Don't guess- have the right training- make the right decisions!
- 2.) Pick your target for an ergonomic survey. (You may only have one opening to demonstrate your abilities.)
- 3.) It's best to pick a person that stands out front of the number one spot to showcase your ergonomic abilities: i. e. administration person outside the plant Managers office, CO office, etc.
- 4.) It also helps to pick someone you know, ▶ a person that needs your ergonomic assistance and would be willing to work with you to make improvements happen.
- 5.) Lets show an example of part of a PowerPoint I gave to our command.

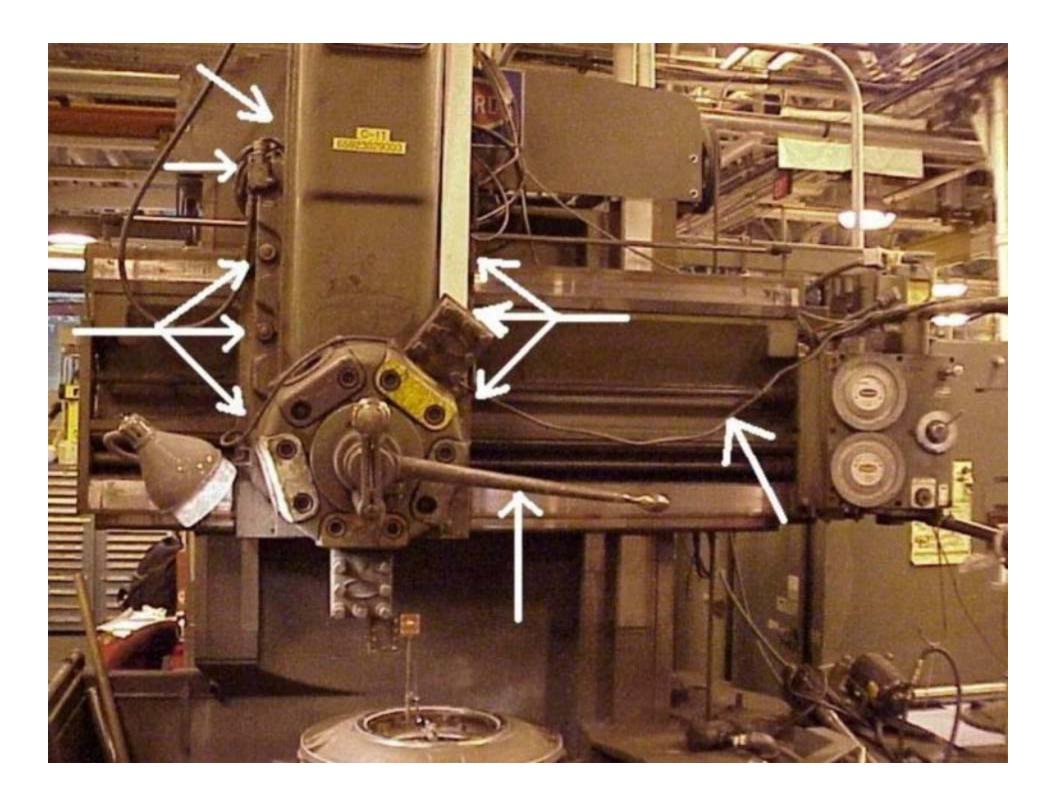




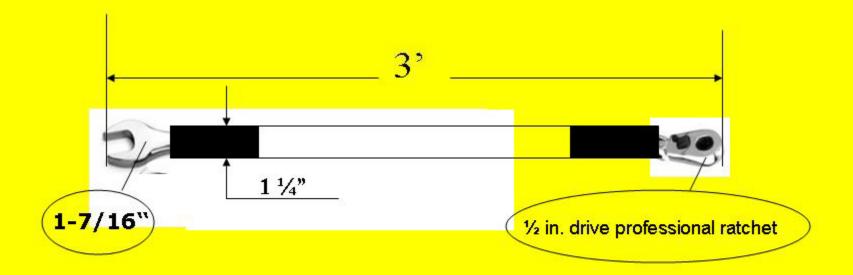




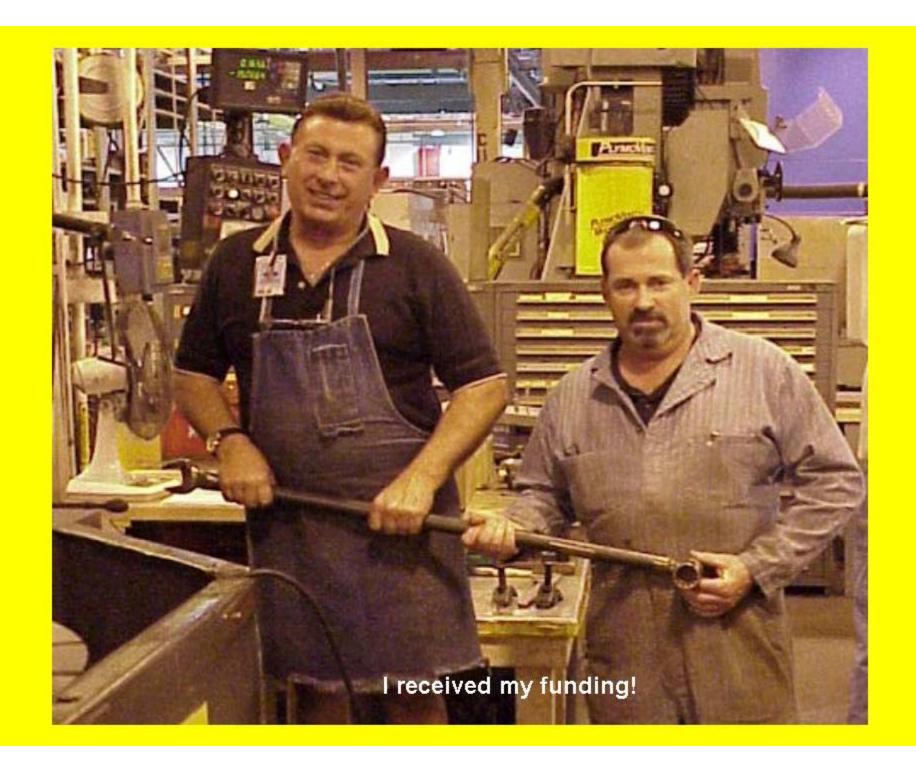


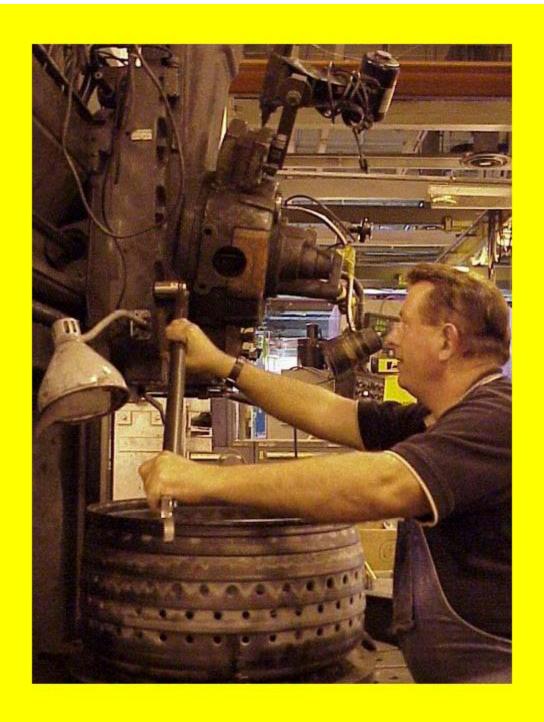


## What would you do to fix the problem?



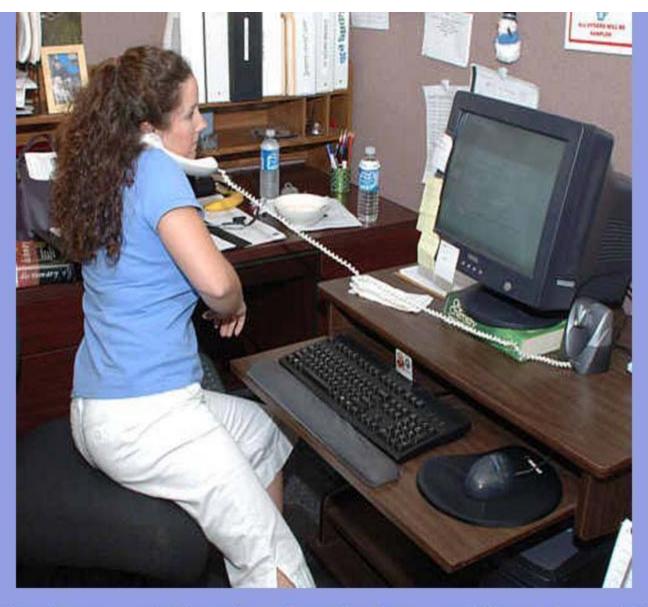
I don't have funds to make this tool for testing.







# Thinking Outside the BOX (Fun time)



Do you find yourself having headaches, stiff neck and backache due to PNFR "Phone Neck File Reach"?









After Using the wireless headsets



### Data

#### Data can be

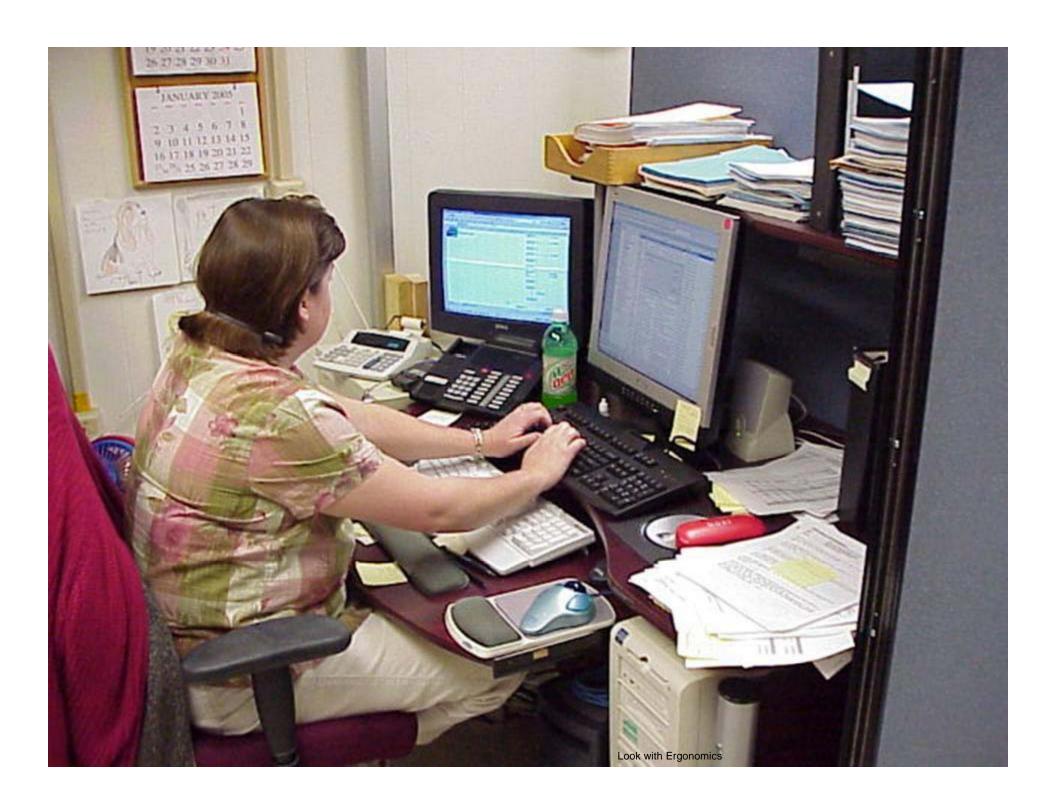
## Pictures

Scenario: A small lady that is sitting in a chair with poor back support.

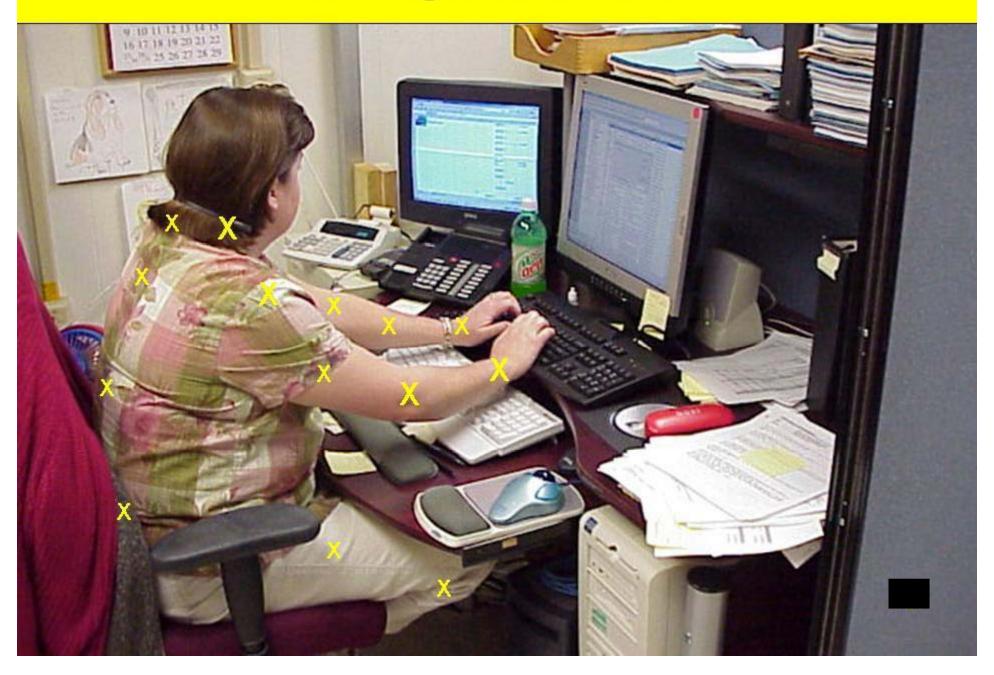
Do you have that picture in your mind? Lets see if your picture matches reality!

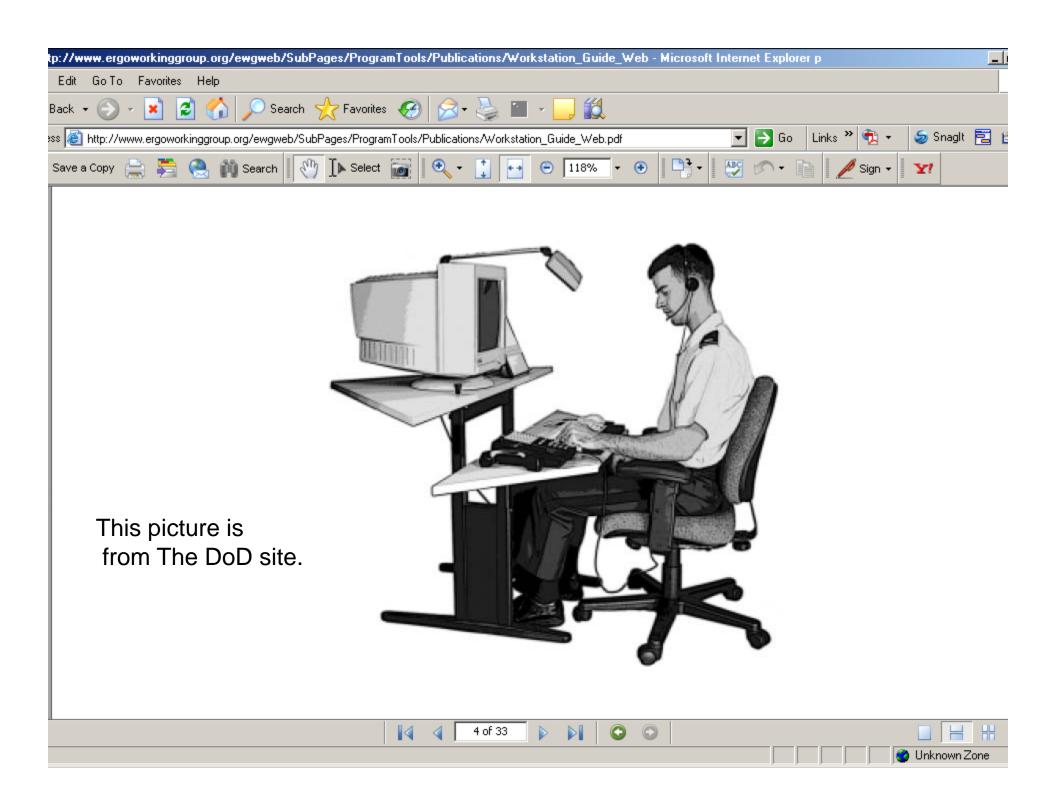






#### X = Ergonomic issue

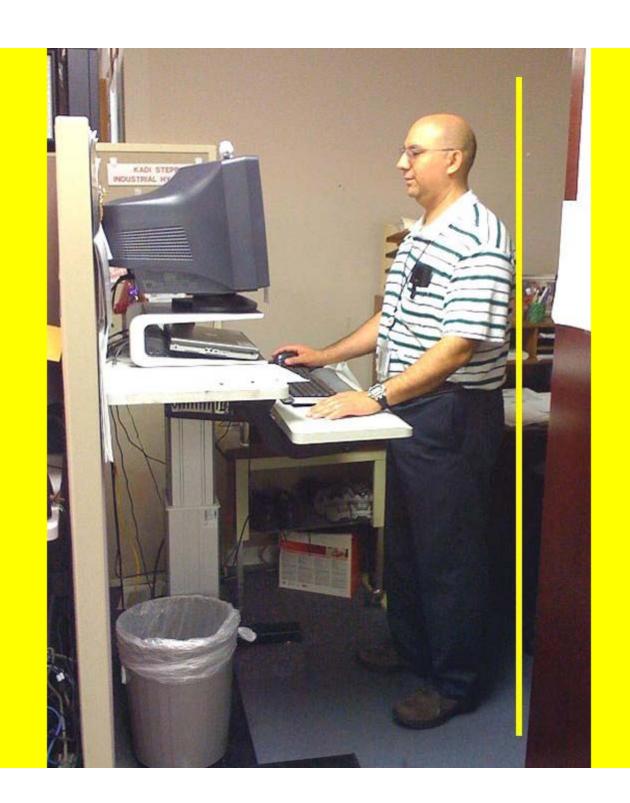




New adjustable computer desk takes away ergonomic issues

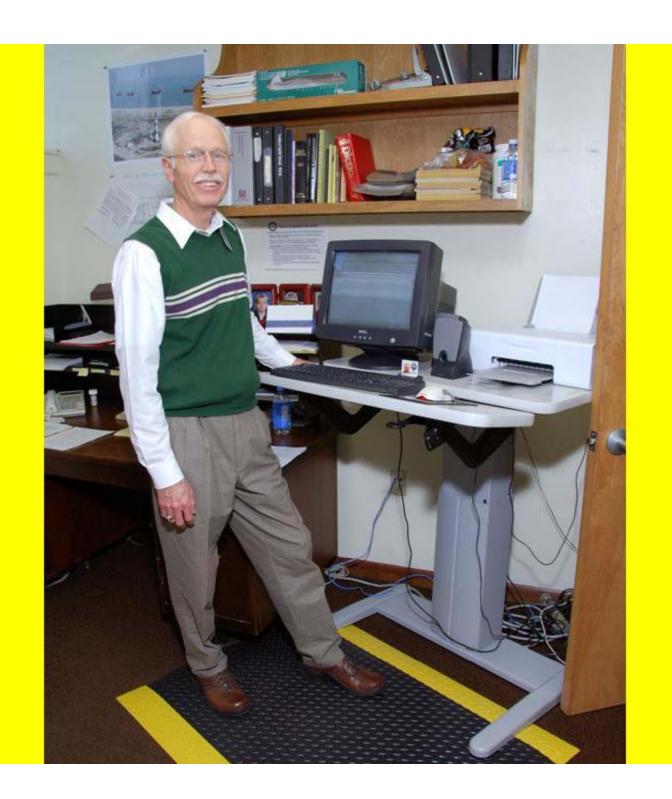


Ergonomic chair gives proper seating.



When one has to be on the run, an adjustable workstation allows for faster and easier computer access.





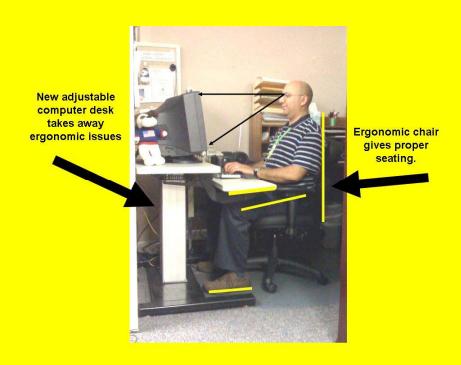






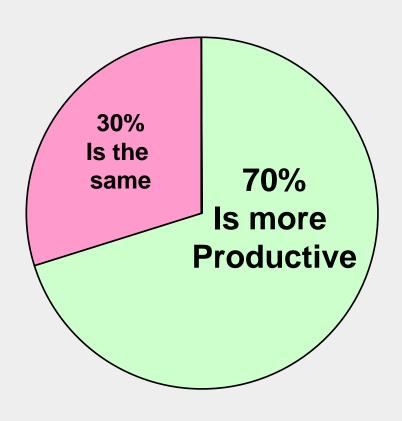
### Electrical Adjustable Computer Desk Survey. <u>July 2009</u>

80 Surveys given out. 76 Surveys returned back





If you adjust your workstation daily, weekly or monthly, has this feature affected your performance?

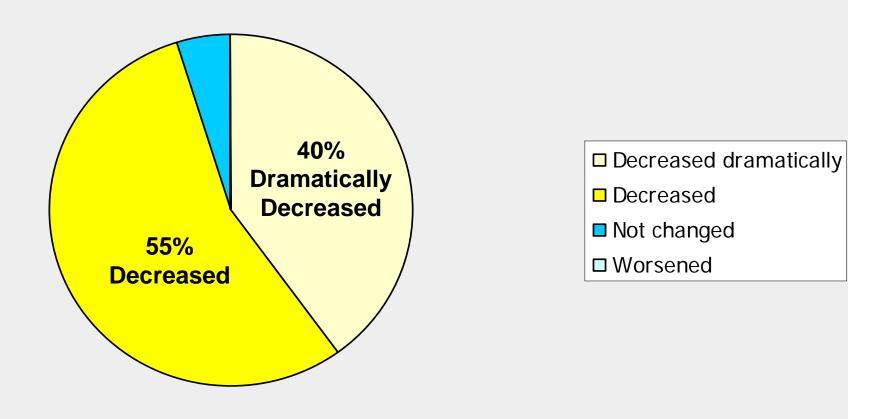


- □ I am more productive
- I have the same productivity
- □ I am slightly less productive
- □ I am far less productive

#### Feed back on how it effects our productivity

- I have the same productivity but I feel better
- Allows for more controlled movements
- More productive because I can work sitting or standing up...
- No pain, all gain
- It makes work easy
- I am more relaxed so I can work better
- Makes my job easier on me. I have more energy when I go home.

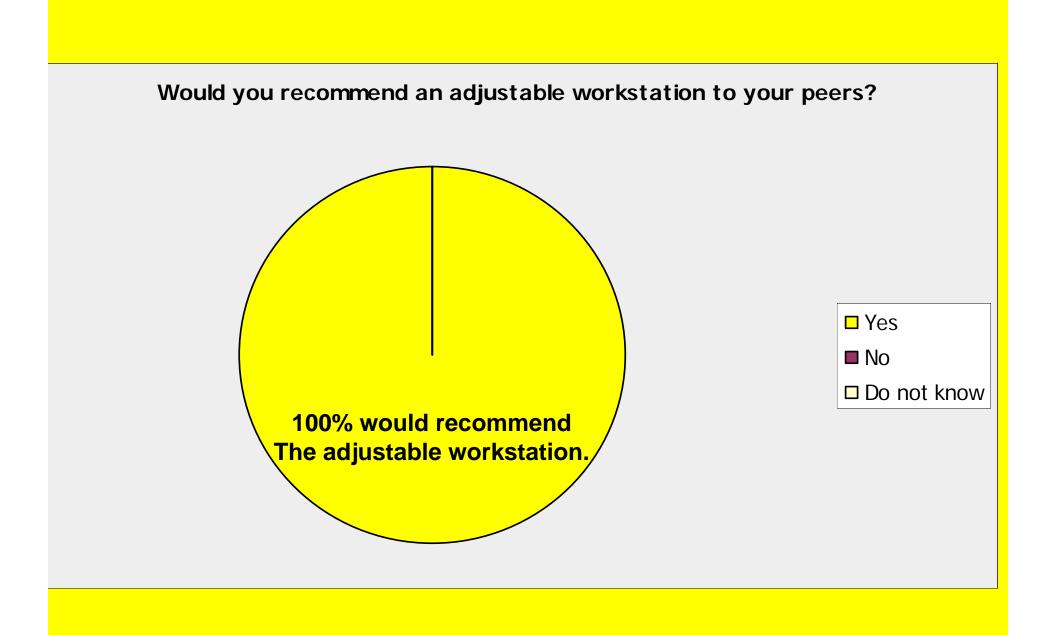
If you had pain or discomfort associated with your job previous to using the adjustable workstation, has the pain / discomfort?



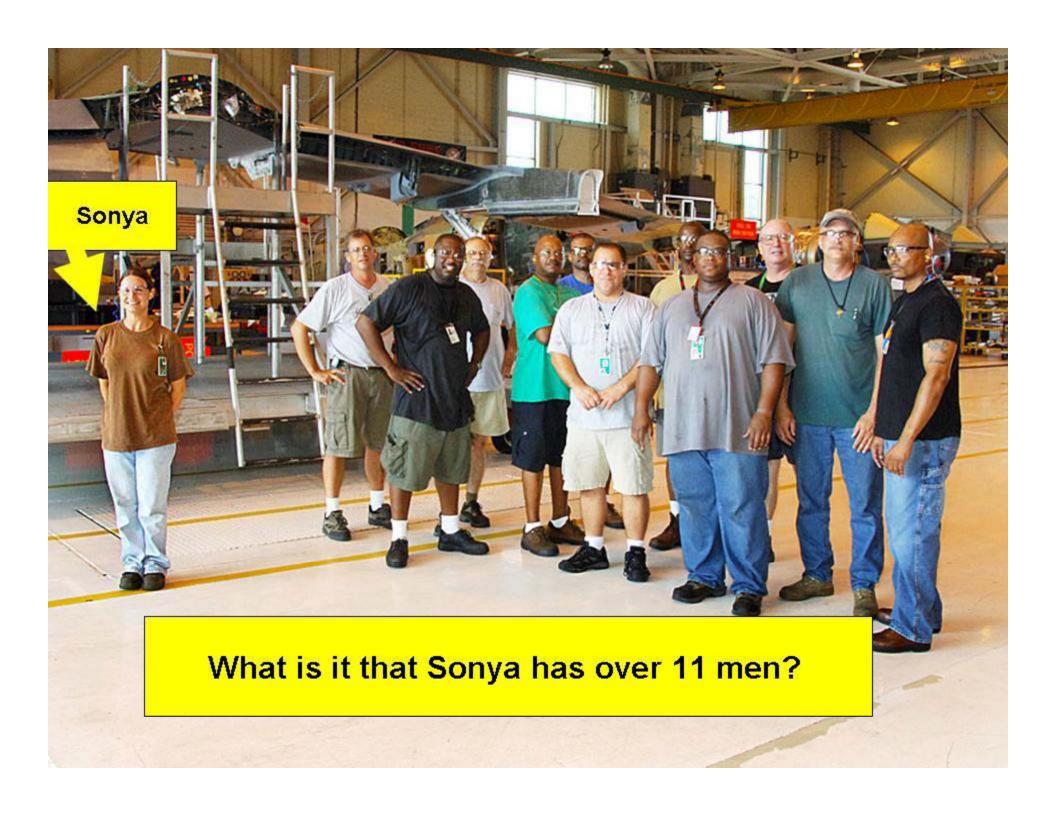
Note: That's 95% of the people has shown a decrease in pain!

## Feed back on how our employees feel using the desk

- "Neck pain Eliminated/Headaches decreased Arm/Wrist pain numbness decreased"
- I used to get really bad neck pain that ran into my shoulders & now I don't have any pain at ALL.
- Pain is totally gone.
- Because you don't have to stay in one spot you can move around and work and don't have to worry about getting stiff.
- I was going to have surgery but now with the use of the desk I don't need it.
- My pain went away
- I have a back injury and this desk is very helpful.
- Had lumps on my wrist and pain. All is now normal
- The workstation was a key element in my recovery.
- Pain in arm and shoulder/hand & neck has decreased









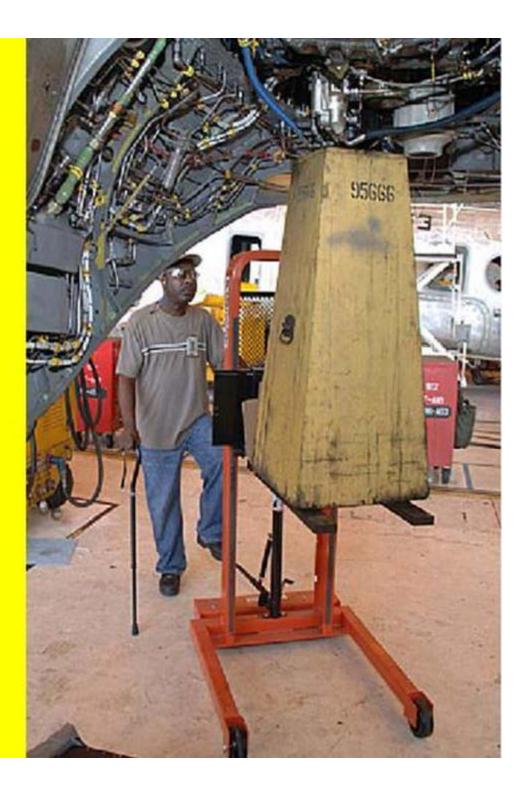
## 80 lb Generator

Room for only one person to install the generator in the H-46.

X= Ergonomic issues



With a use of a lift even a man walking with the use of a cane can do it.



Ergonomic issues
Posture, Compression,
Duration

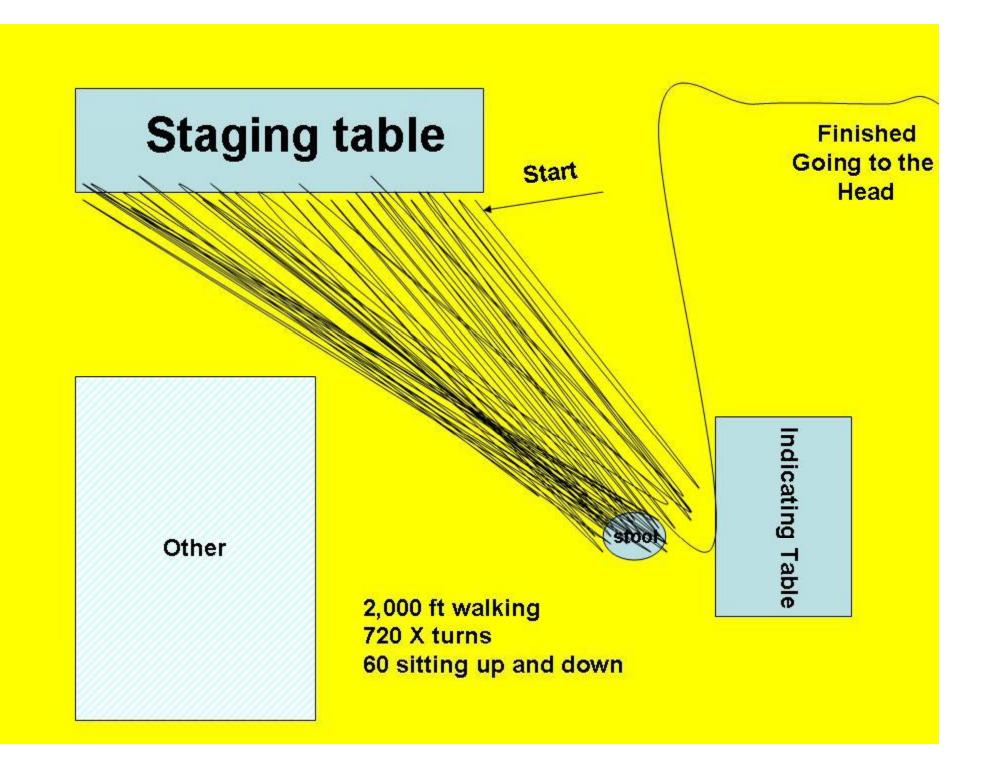








Laying out two rows of blades is not only back breaking but can be damaging if the parts hit one another.







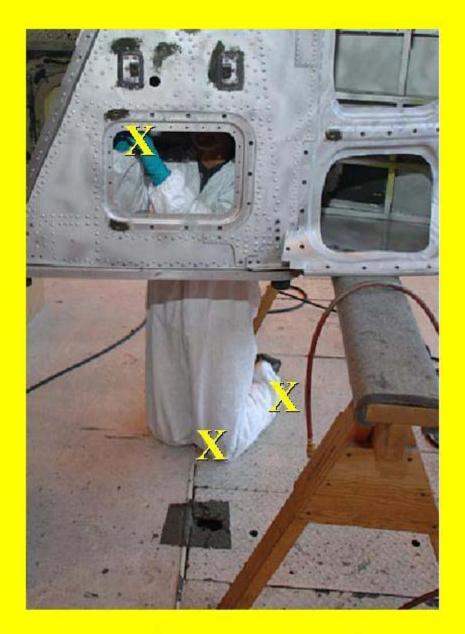


O ft. Walking 0 Turn round's 1 Sitting up and down



Zero Ergonomic issues and Greater Productivity





Ergonomic issues = Posture, Repetition, Compression, Duration



## From Design

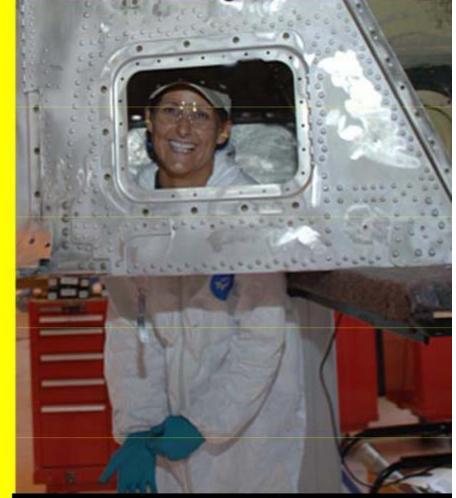
1

to Reality





The adjustment takes away the Posture and Compression.
At the same time reduces
Repetition and Duration



Makes for a much happier and productive day at work.

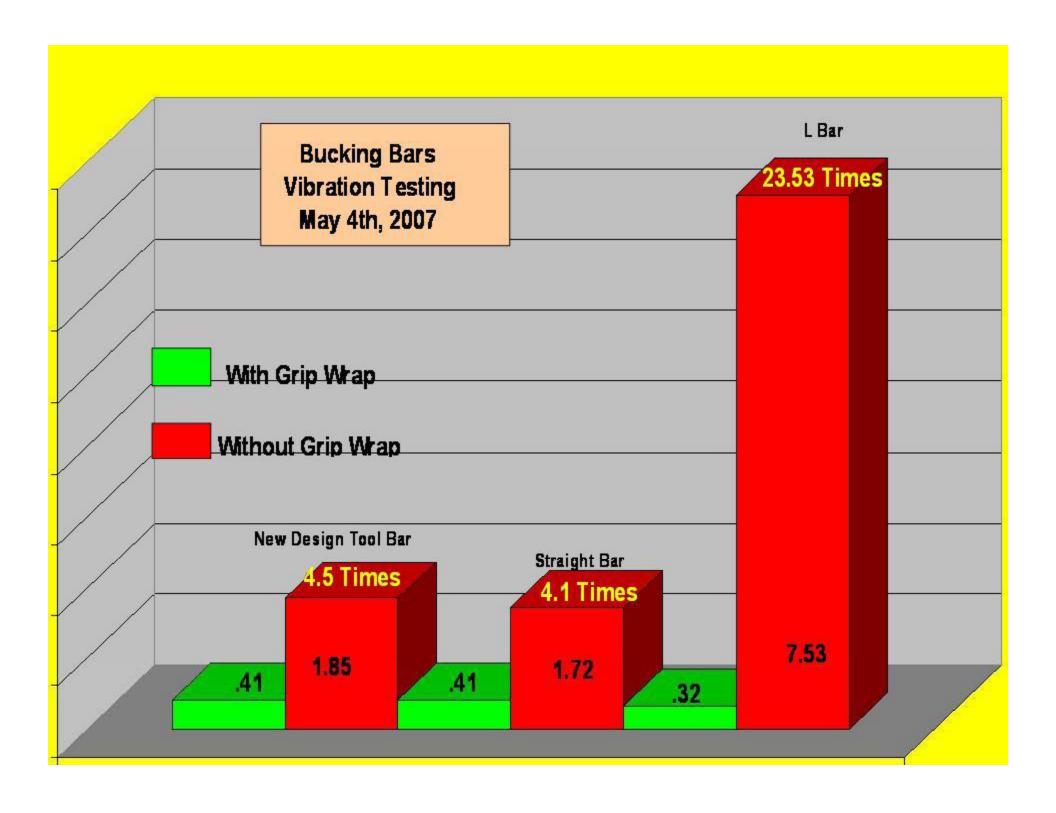


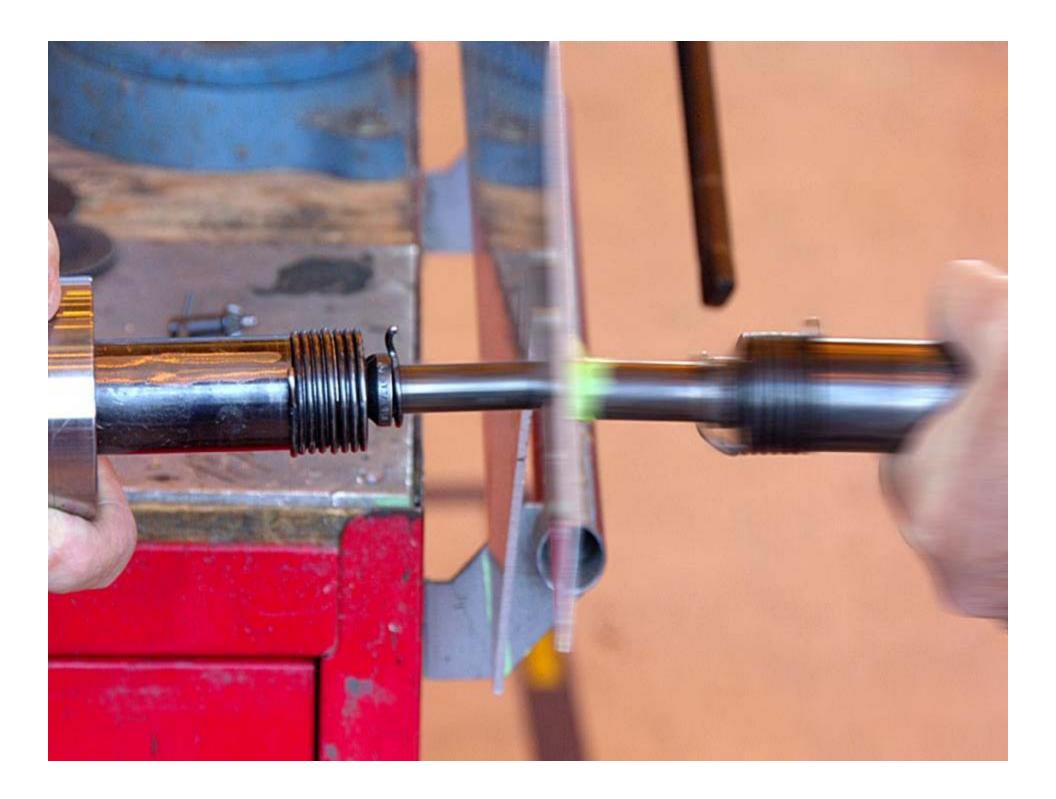








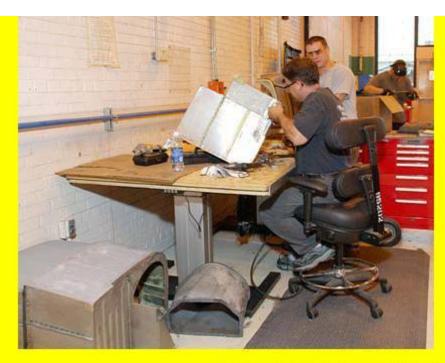




Ergonomic issues
Posture, Repetition,
Compression and Duration.

















Reality



From this

To this

In 3 seconds





Mobile handling scissor lift table with battery lift operation that enables the operator to place the load at a convenient working height.



Mobile handling scissor lift table with battery lift operation that enables the operator to place the load at a convenient working height. When completed the generator can be lifted into the paint booth using the scissor lift.

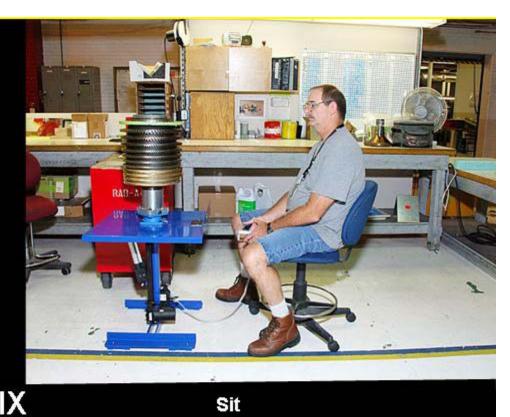
(Note: ergonomic stool)



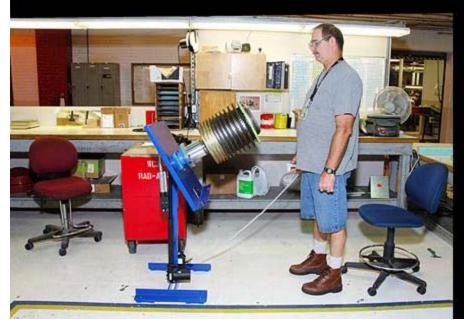








Stand FIX







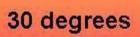
## **Newly Designed**

3-Wheel Creepers

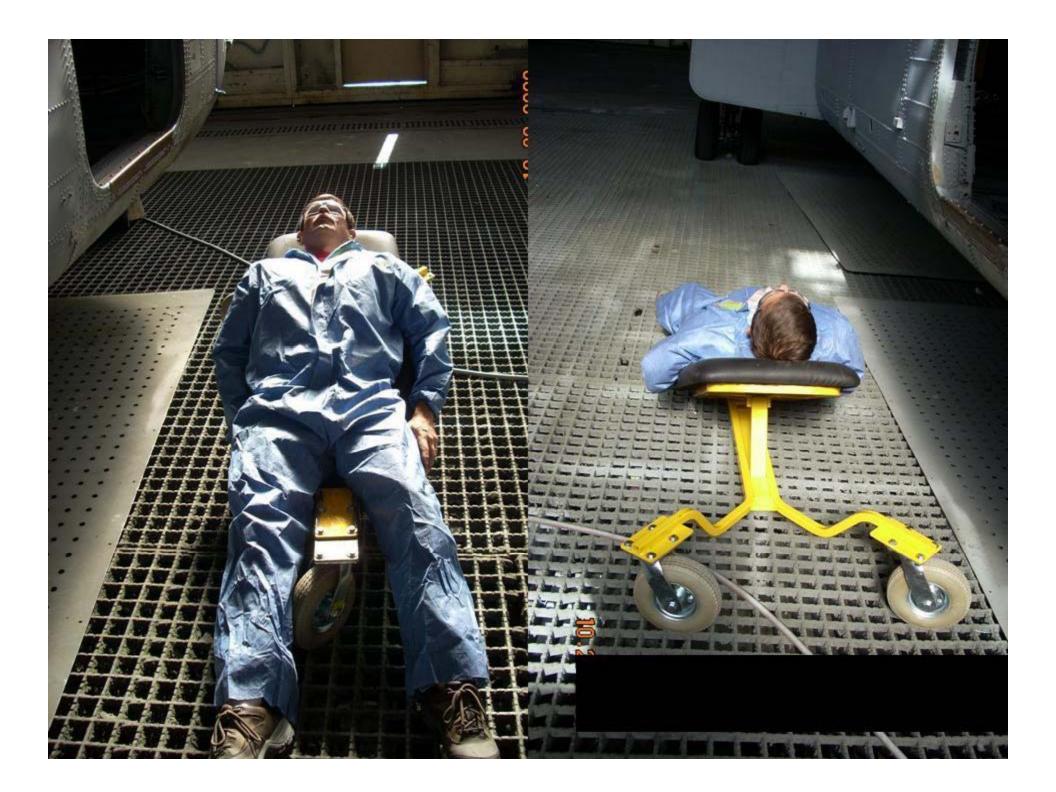
"Great" addition to FRC-East



15 degrees

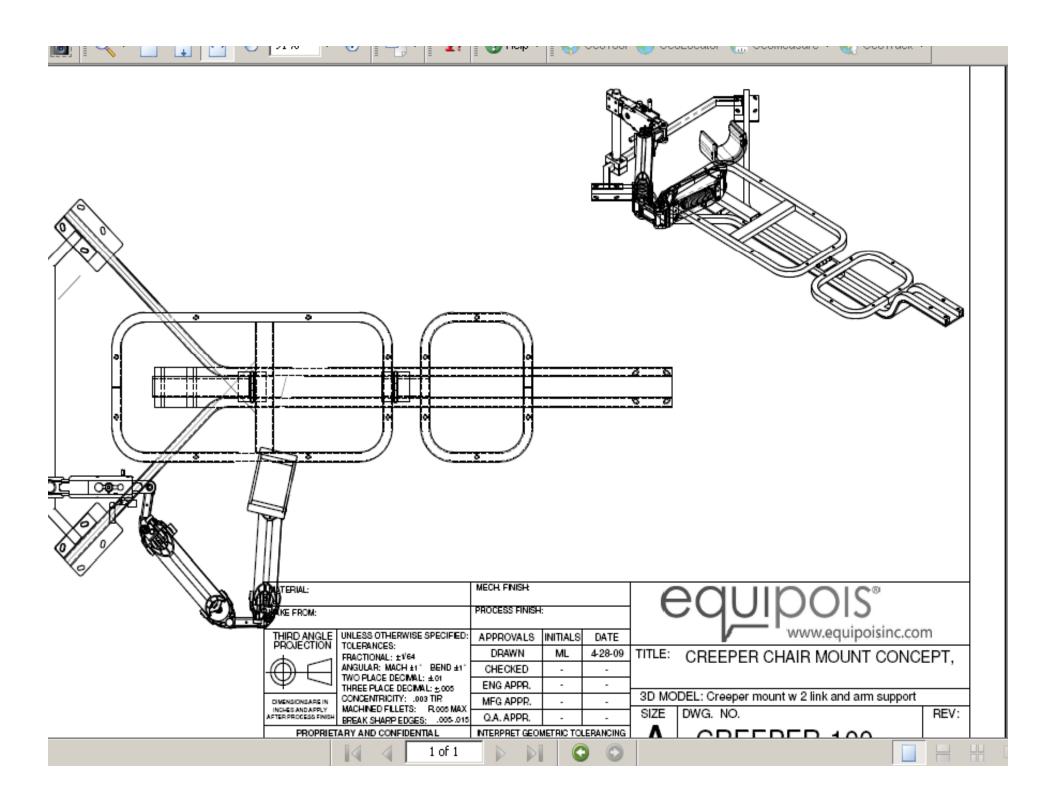






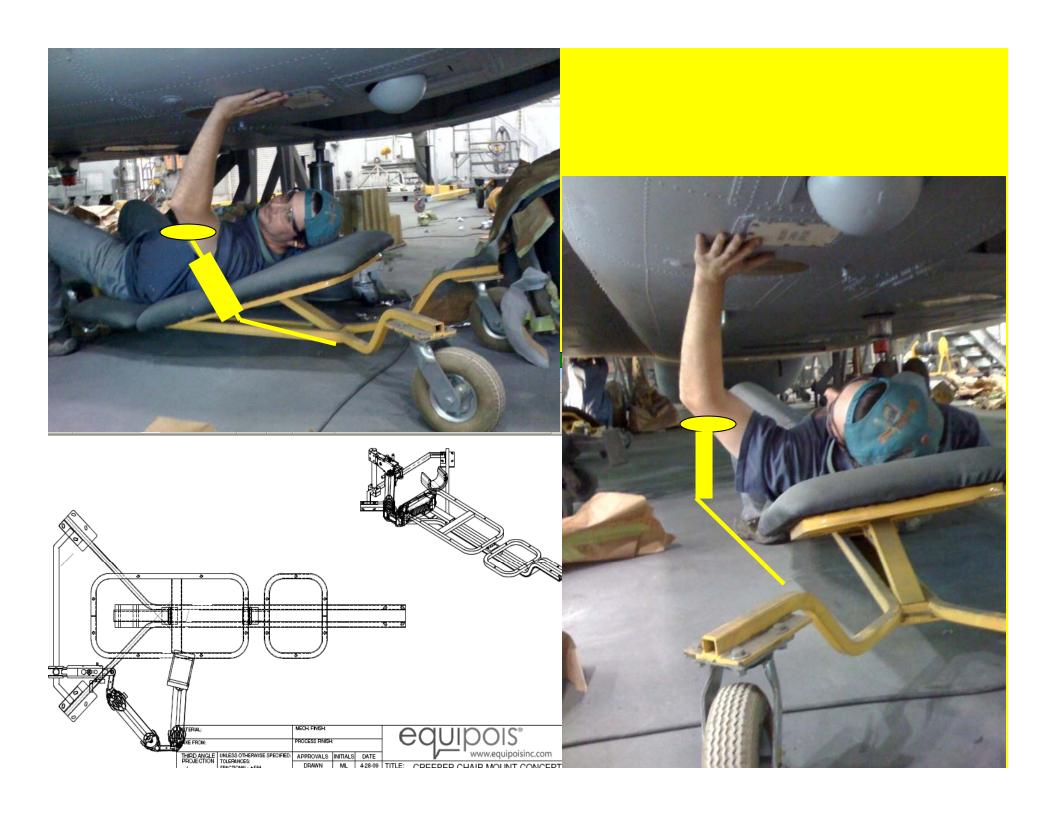








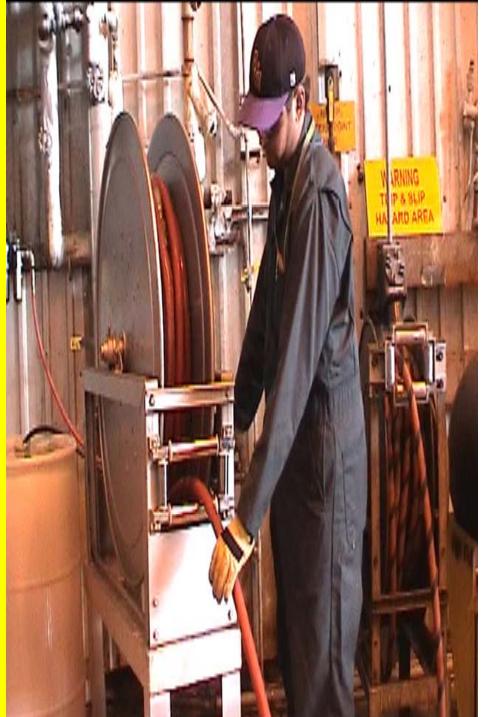






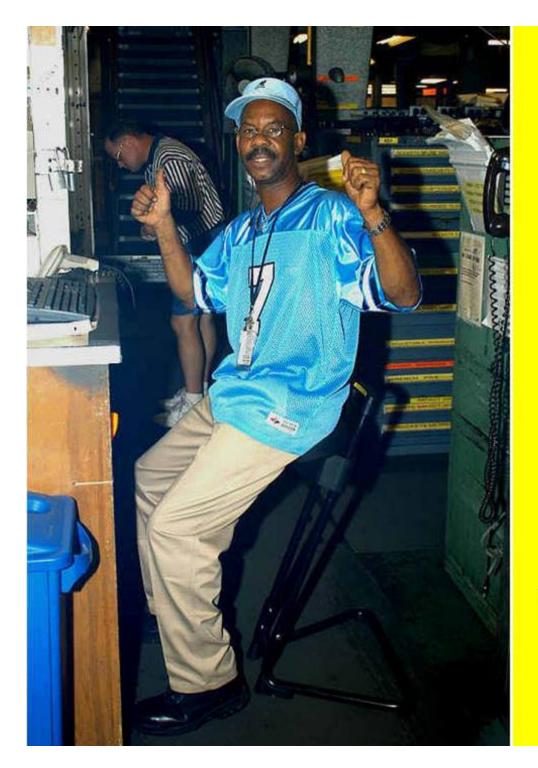










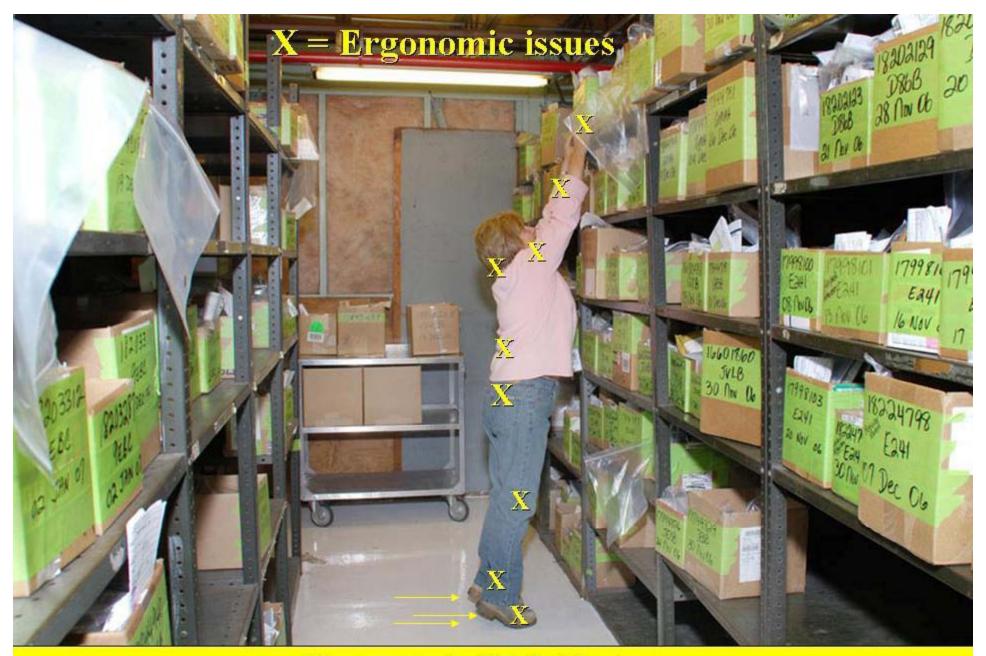




We have 42 sit/stand stools throughout FRC East.

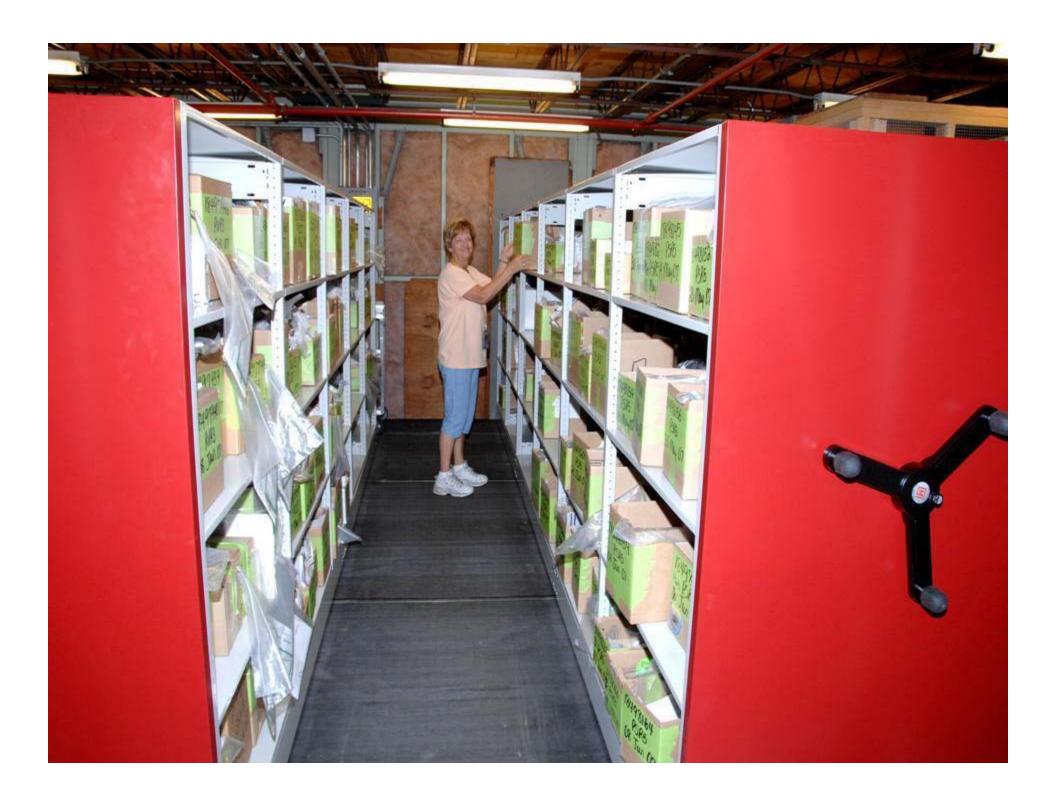


Know how to use your resources!



Ergonomic Risk Factors:

Force, Posture, Compression and Duration.

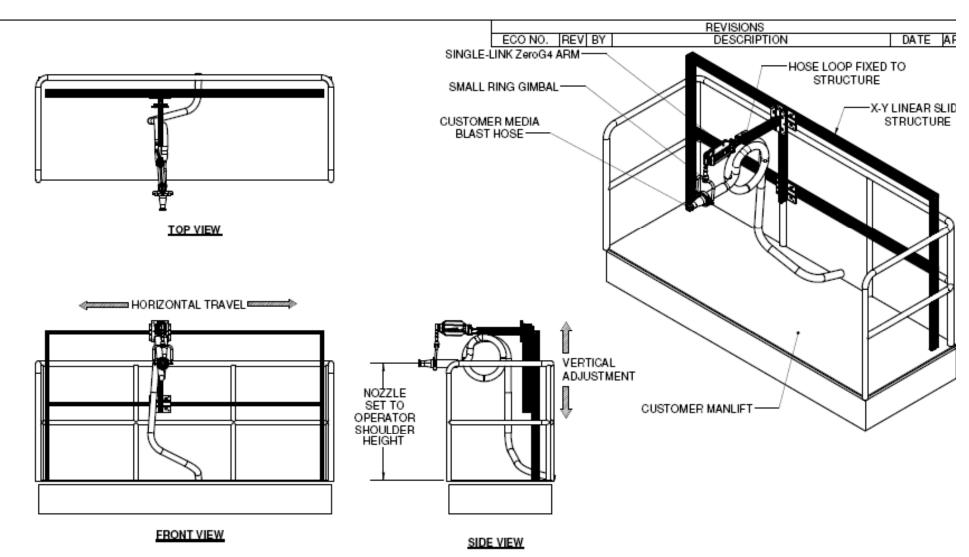








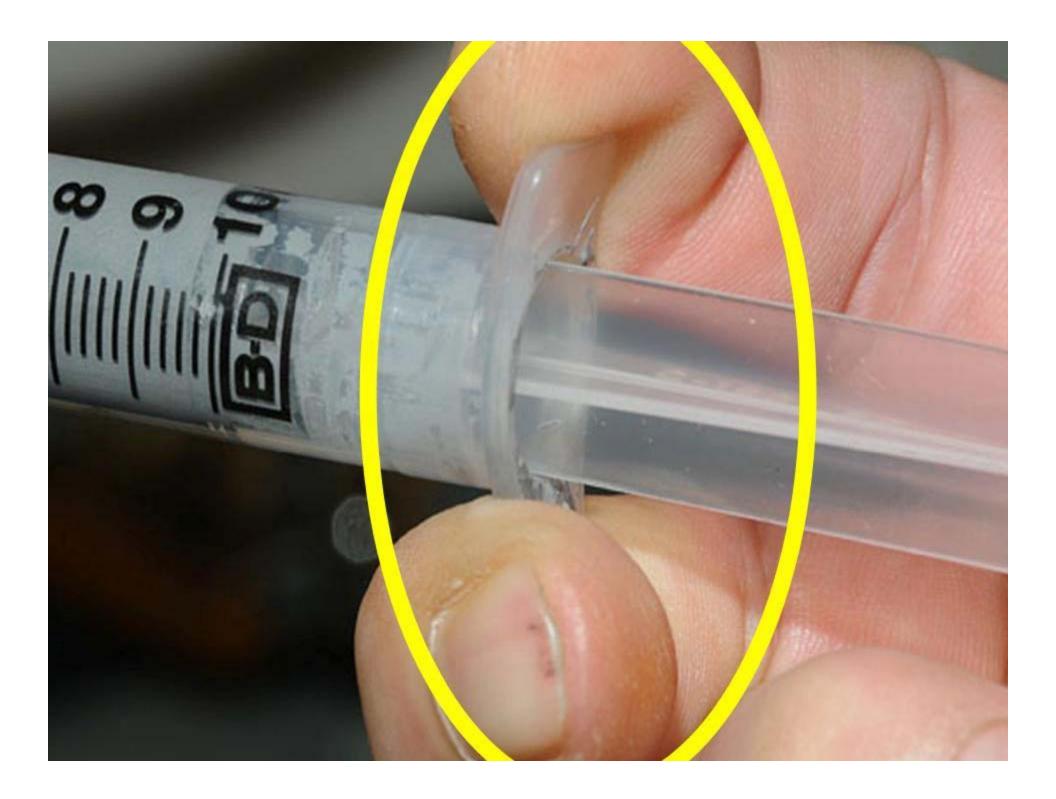


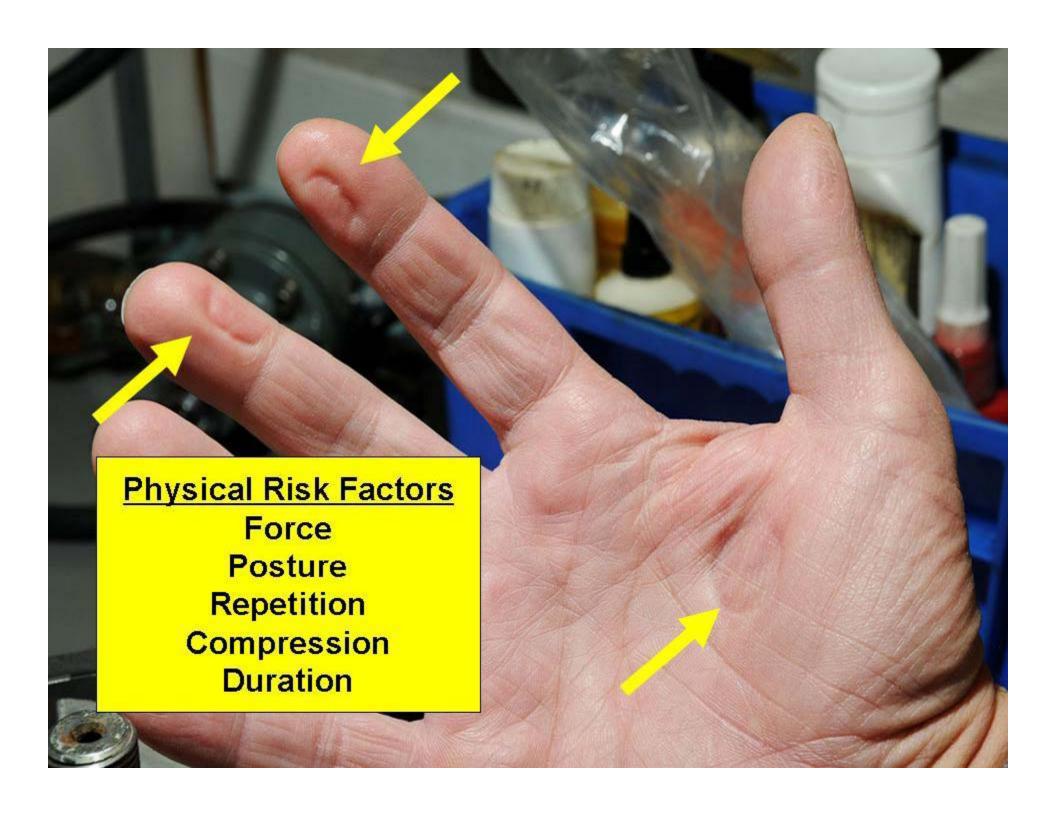


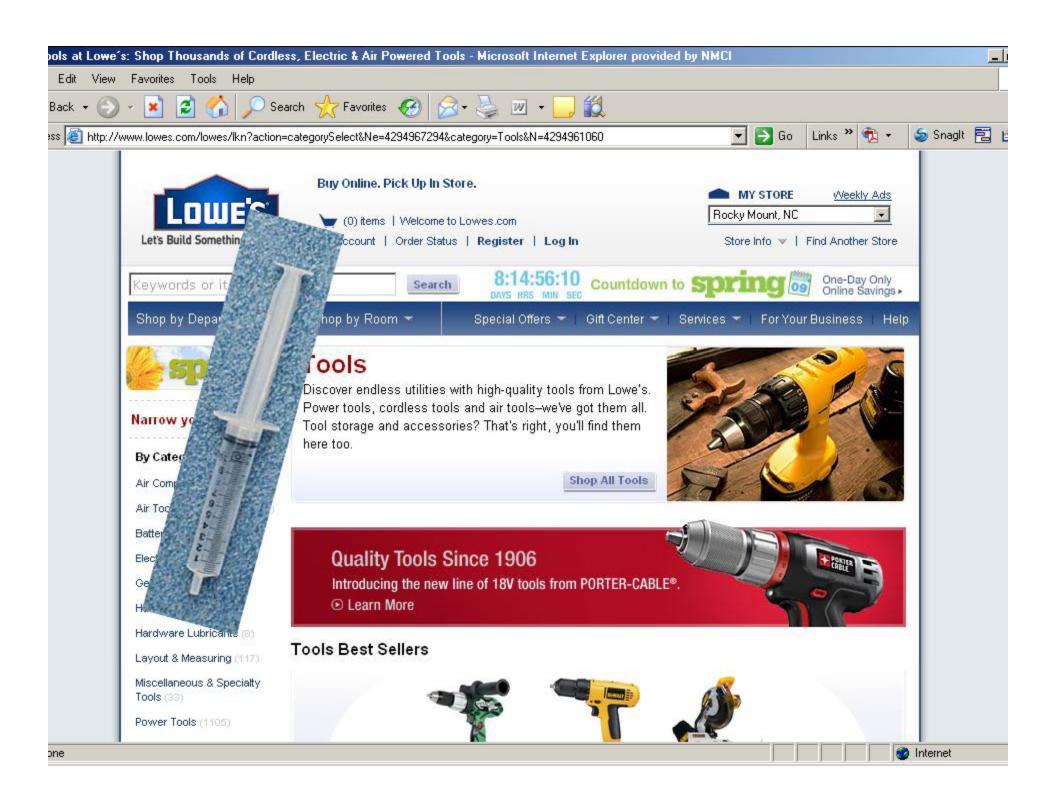
## [FOR CONCEPTUAL PURPOSES ONLY]

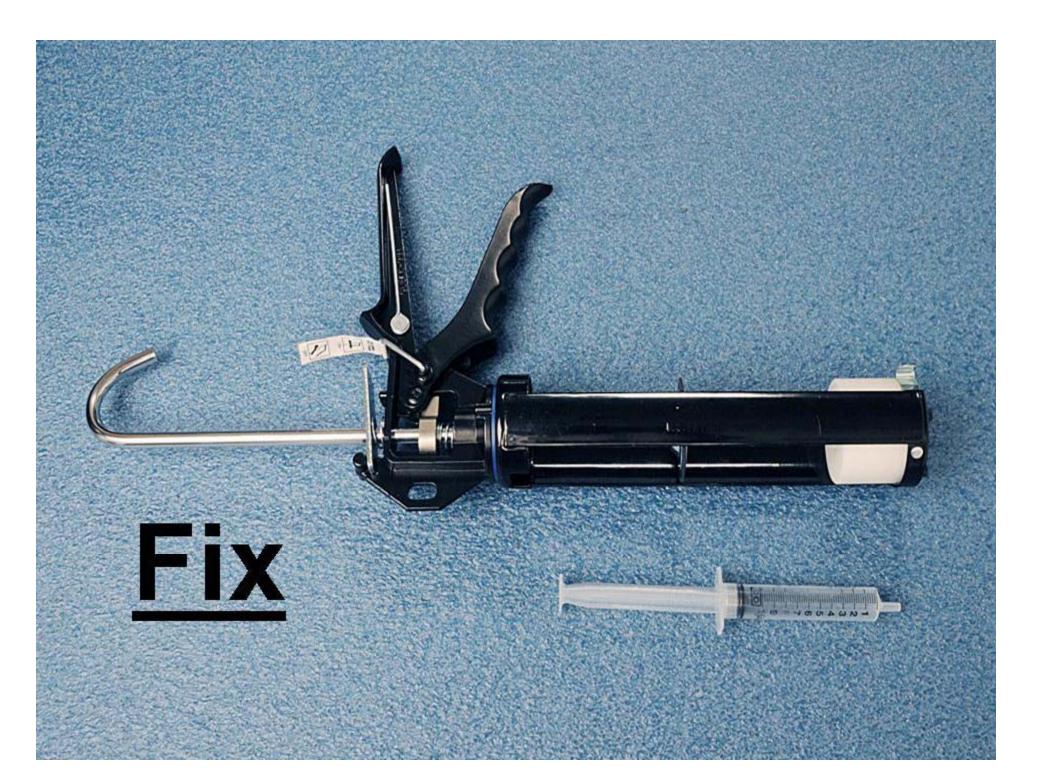
MATERIAL:	MECH FINISH	eallinois <sup>®</sup>
MAKE FROM:	PROCESS FINISH:	



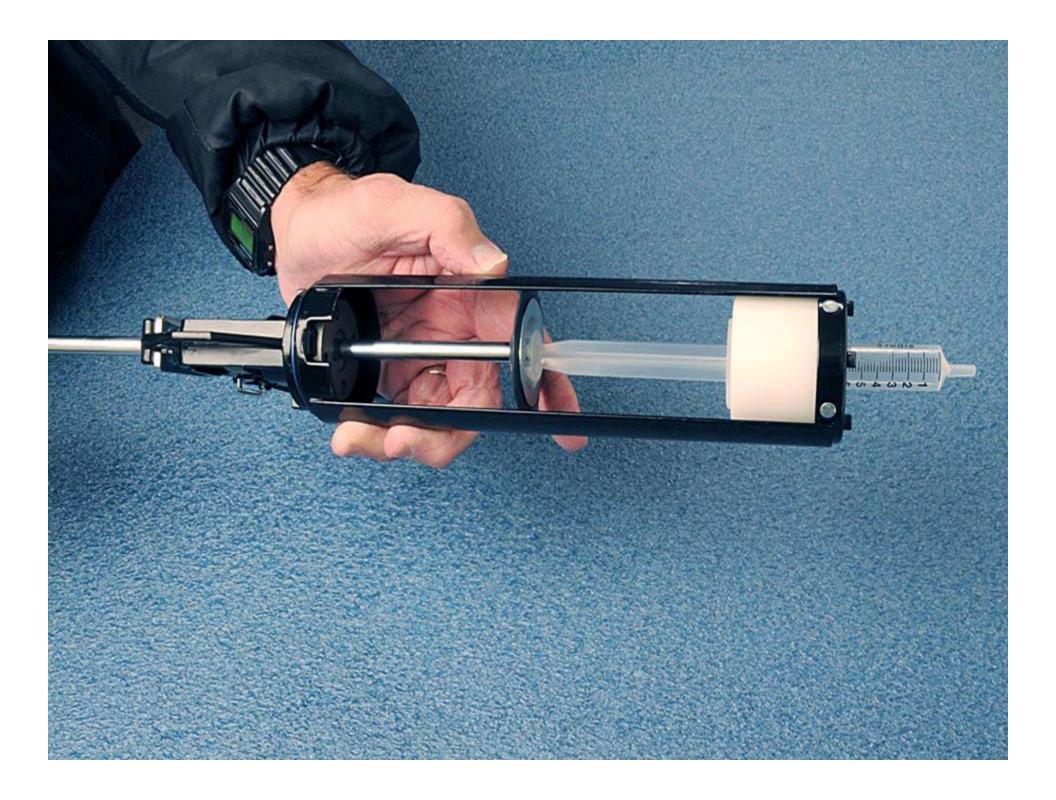






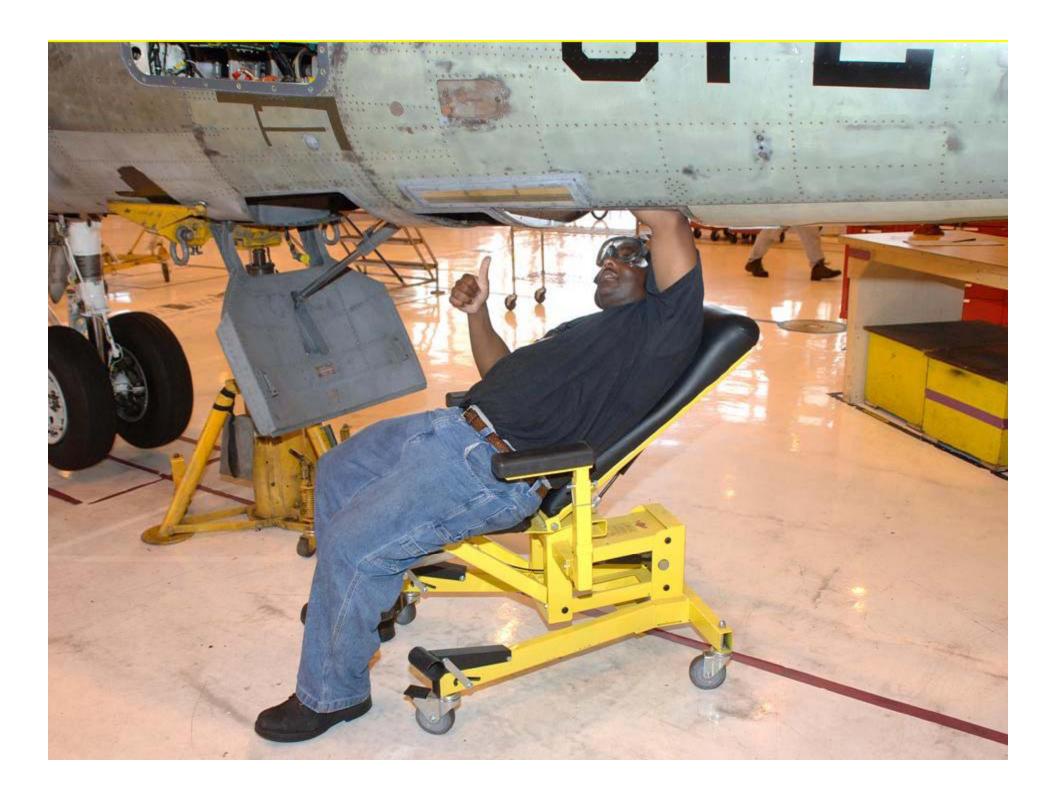


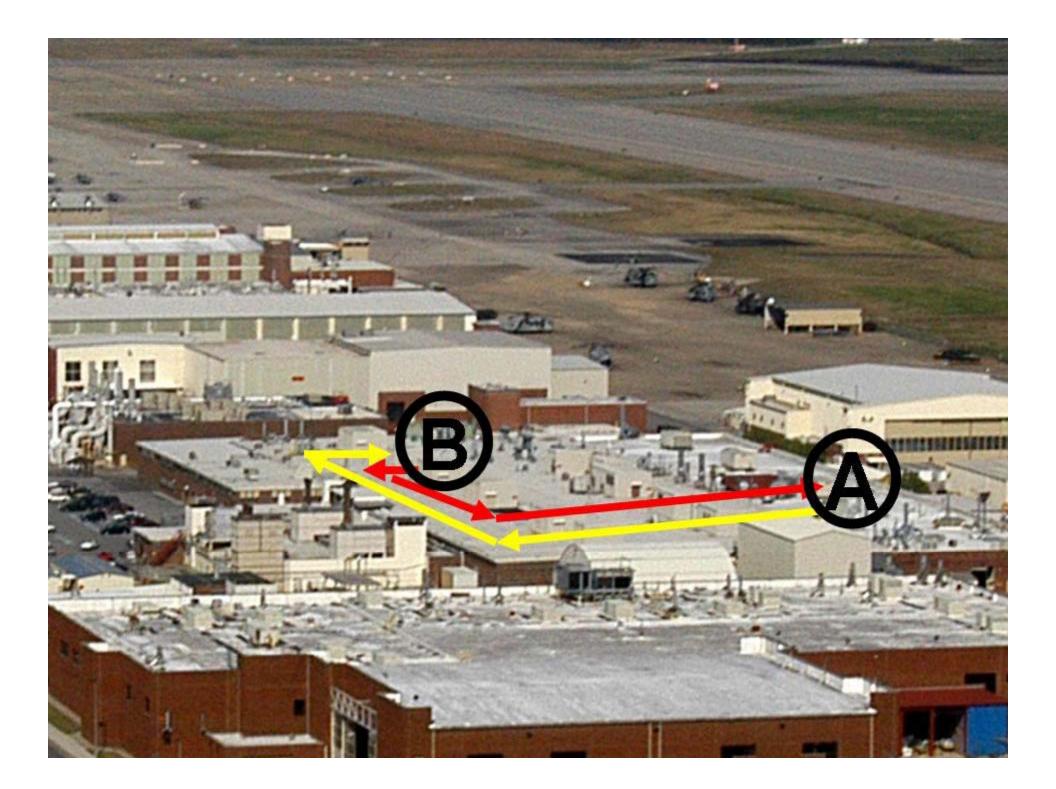


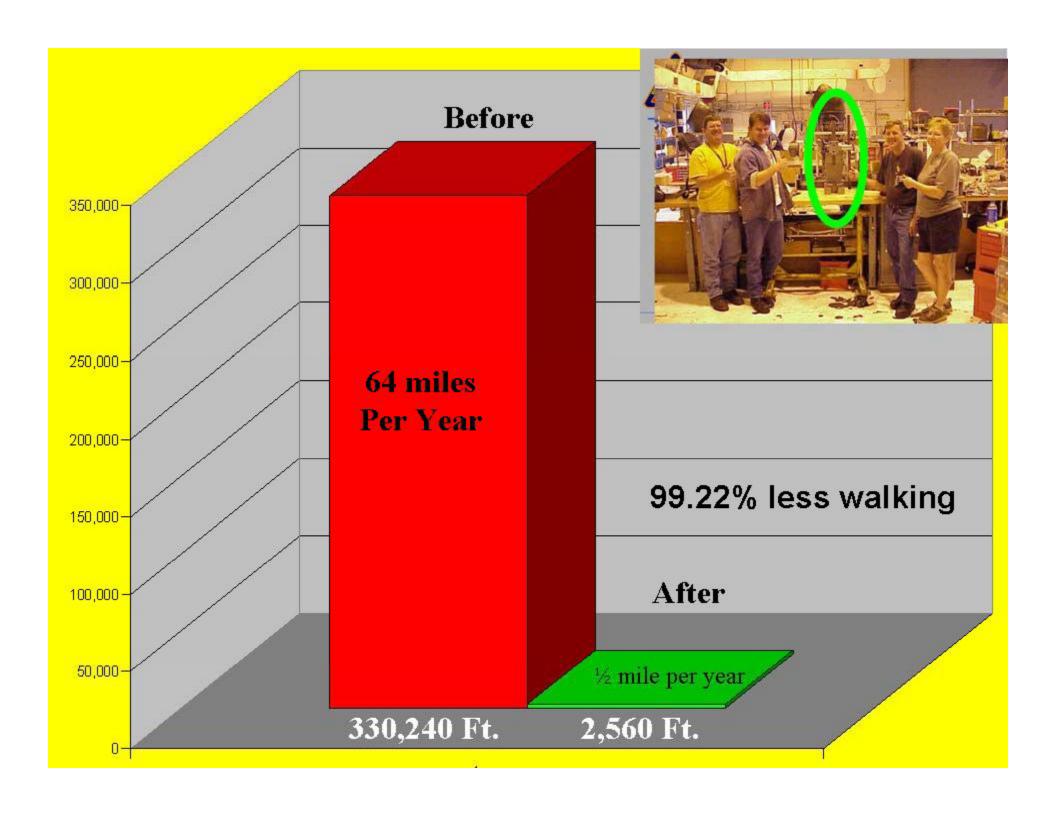








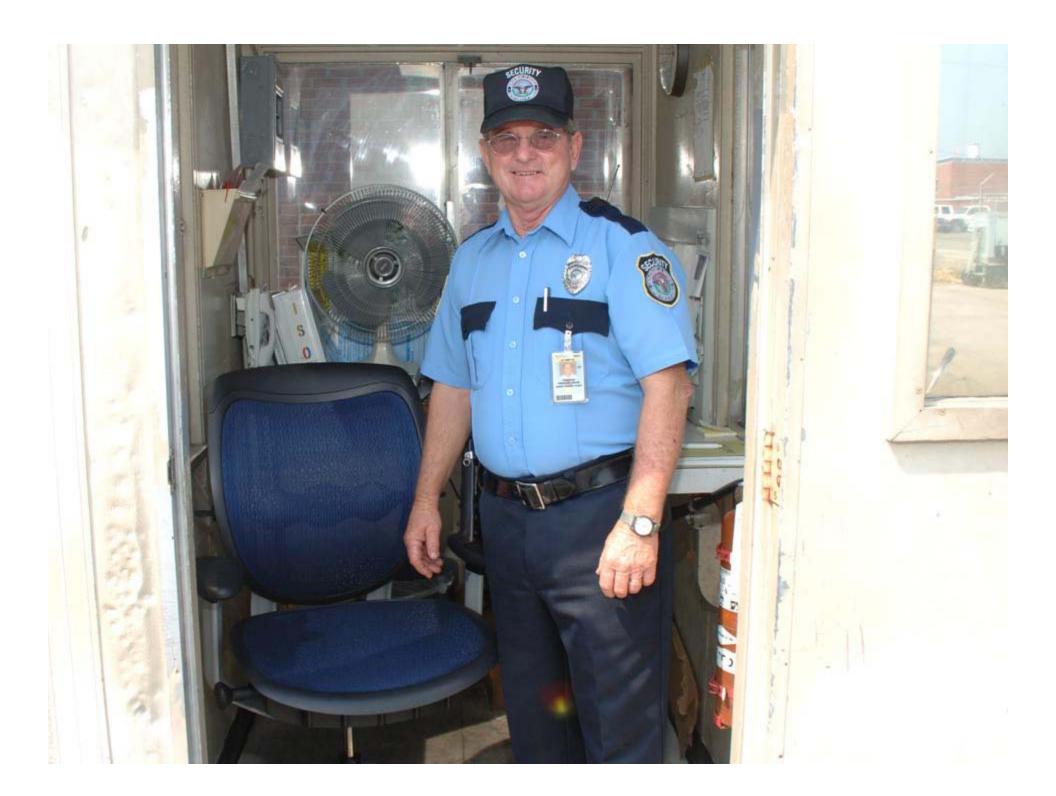






We had to walk 330,240 ft. a year to use a press located in building 133.

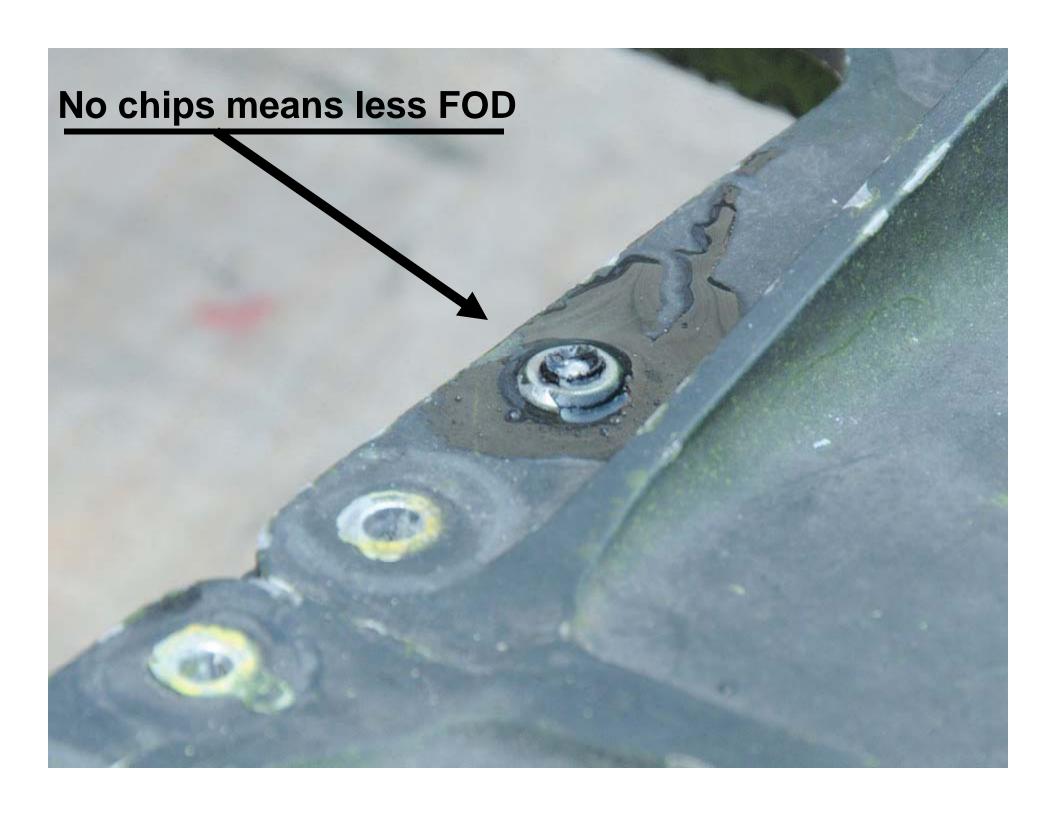
Now it's less than 2,560 ft. a year.











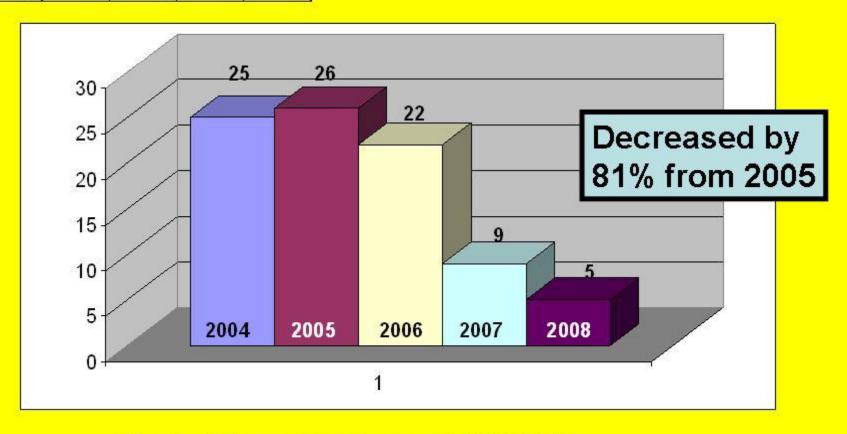


# And now for the real

# Data

#### Carpal Tunnel Syndrome Cases at FRC-East over 5 years

2004	2005	2006	2007	2008
25	26	22	9	5

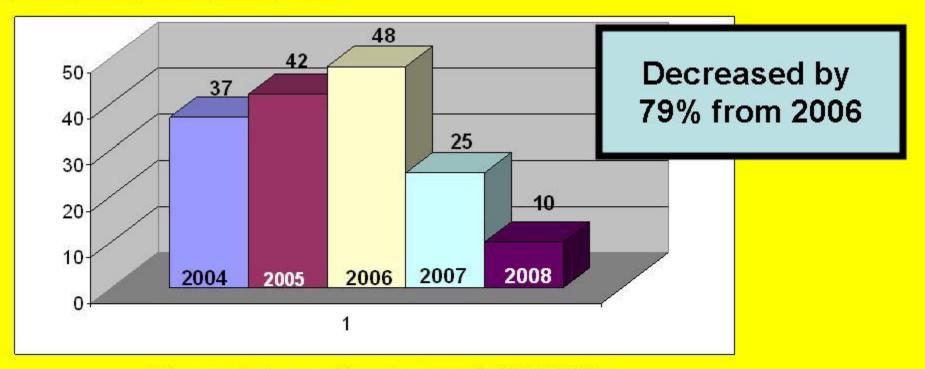


#### Above information is as of 12/5/2008

By Richard Borcicky Ergonomic/Engineer FRC-East, Cherry Point

#### Back Pain / Hurt Back Cases at FRC-East over 5 years

	- 0			
2004	2005	2006	2007	2008
37	42	48	25	10



#### Above information is as of 12/5/2008

By Richard Borcicky Ergonomic/Engineer FRC-East, Cherry Point









## We receive the thumbs up because:

- Ergonomic study of the area.
- Ergo Equipment purchase is based on team decisions.
- Ergo decision was signed off by the employees and management.











With Ergonomics
"you" can lift your
Company to a new
level in safety, quality
and productivity.



### **PUBLICATIONS**

The DoD Publications called: "The DoD Ergonomic Working Group News"

- Issue 63 "Ergonomic Interventions at FRC-East"
- Issue 78 "Applied Ergonomics Conference & Expo"
- Issue 90 "The Right Tool Can Make the Difference"

The Navy Publication called: "The Navy Success Stories"

 "Fleet Readiness Center (FRC) East Uses Lazy Susan Design to Prevent Work Related Musculoskeletal Disorders"

## Seven Videos to view of: Improvements here at FRC-East

- 1.) Cart Caddy
- 2.) Creepers
- 3.) Movers
- 4.) Sawhorse
- 5.) Clean Shop Hose Reel vs. Drums
- 6.) Hazardous Waste
- 7.) E-BORE















I'm sad, because its time for me to go





## Feel free to contact me for any other information:

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