





IT'S THE SAME EQUIPMENT:

SAME MASTS SAME PLATFORM SAME DRIVE UNIT SAME CHASSIS SAME OPERATOR SAME REGULATIONS

KEY:

FLEXIBILITY



Mast Climbing Work Platforms SO....WHAT MAKES THEM A SUCCESS ?

SCAFFOLDING	BOOMS/SCISSORS	MAST CLIMBERS	
FOR: AGAINST	FOR: AGAINST	FOR:	
Flexibility	Less Flexible		SOME ASSEMBLY IS REQUIRED
Long Erection Time	Rental Ready		$(\cdot, \cdot)^{\circ} \circ ($
Profiling Ability	Can't Profile		
Fixed Levels	Variable Height		
High Capacity	Low Capacity		ST LI
Large Footprint	Minimal Footprint		

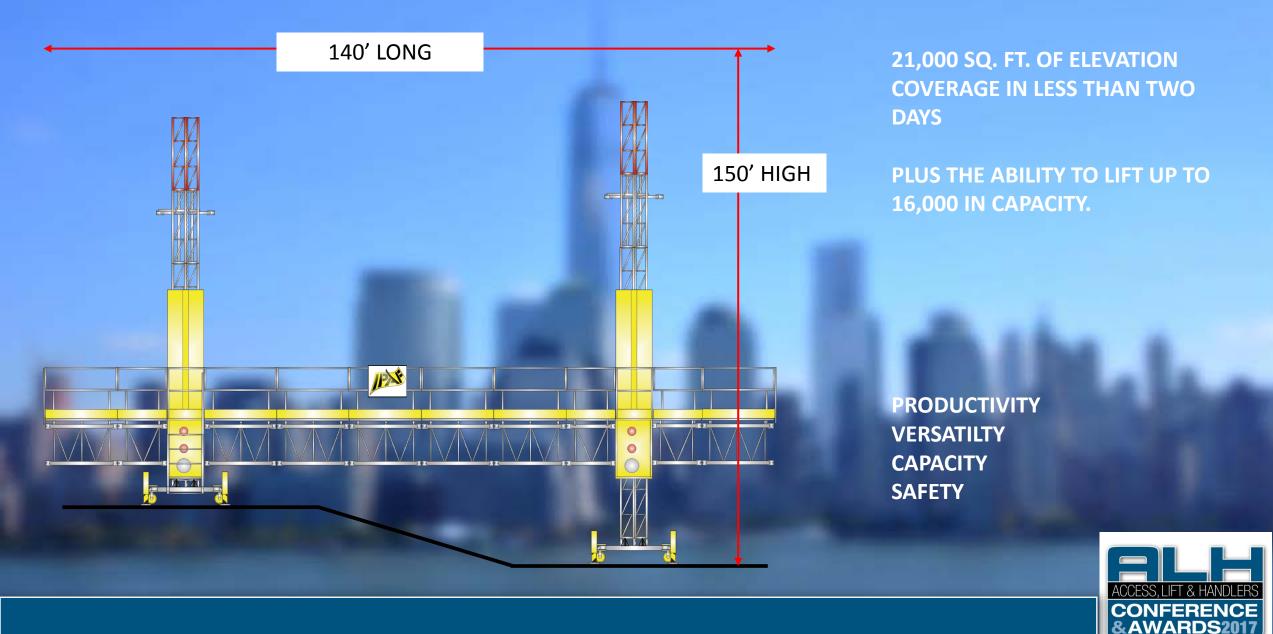
ROBUST AND COMPREHENSIVE INDUSTRY TRAINING



US MARKET ESTIMATES ON POPULATION AND USE

- Est. 15,000 units in US, at average 70% utilization
- Average height 150'
- Average of 4 'users' per unit.
- 40,000 42,000 'users' each day
- Erect/dismantle:
- Each unit averages 4 jobs annually
- Average job duration, 2 months
- Average dismantles/erects/repositions per unit per job is 5
- Each unit is erected or dismantled **20** times each year
- Each move (150' unit) on average takes **30** working hours
- 6.3 million working hours spent annually on erecting/dismantling/repositioning





TUCSON CONTROL TOWER

MARCO

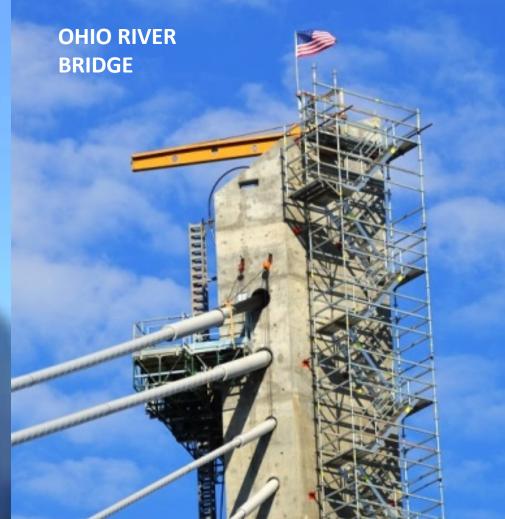


PERCEPTION THAT MAST CLIMBING WORK PLATFORMS ARE TECHNICALLY DEMANDING:

SOME ARE

But

MOST WORK DAY TO DAY IN A MORE MUNDANE ENVIRONMENT.....







MANY APPLICATIONS BETWEEN 50 – 75 '

BRICK BLOCK GLASS STUCCO STONE REFURB

FREE-STANDING:

WALMARET TARGET





TOTAL ENVELOPE COVERAGE





8,000 – 10,000 FOKLIFTS



TECHNOLOGY TRANSFER -COMBINING TECHNOLOGIES/IDEAS/PRODUCTS TO ACHIEVE GREATER PRODUCTIVITY OR SAFETY OR BOTH

EARLY 80's – THE ENTREPRENURIAL YEARS







TODAY'S TECHNOLOGY TRANSFER IS A LITTLE MORE SOPHISTICATED:



ENTREPRENURIAL PHASE OF AN INDUSTRY :

MOST EXCITING

MOST DANGEROUS

A LOT OF GREAT IDEAS COME TO MIND, AND ENTREPRENURES WHO HAVE IDEAS, FAITH AND NO MONEY PUSH THESE IDEAS FORWARD RELENTLESSLY UNTIL THEY SUCCEED OR FAIL

ATTENDED : WASHINGTON DC – TECHNOLOGY TRANSFER CONFERENCE

H&S PROFESSIONALS, GOVERNMENT SCIENTISTS AND REGULATORS LOOKING FOR SAFETY GAINS THROUGH TECHNOLOGY TRANSFER - FASCINATING



ONE EXAMPLE – QR TAGS

SCAN THE QR TAG ON THE BOOM OR SCISSOR OR MAST CLIMBER:

SAFETY AND OPERATIONAL REVIEW OF THE EQUIPMENT AND A VIDEO OF A DAILY INSPECTION.....ON YOUR PHONE.

THE IPAF 'SMART' PAL CARD

IF YOU DON'T HAVE THE REQUISITE LEVEL OF TRAINING TO OPERATE THE EQUIPMENT IT WONT START

SO.....THE IDEAS ARE STILL OUT THERE



GOT ME THINKING......A MORE RUDIMENTRY FORM OF TECHNOLOGY TRANSFER

NOT COMBINING SOPHISTICATED CONTROL SYSTEMS AND SCIENCE BUT,

SAVING LIVES IN A TRADITIONAL INDUSTRY BY COMBINING ACCESS PRODUCTS IN NEW WAYS......



HOW DO WE IMPROVE SAFETY FOR STEEL ERECTORS BY TECHNOLOGY TRANSFER?



2015: 364 DEATHS DUE TO FALLS FROM HEIGHT (38.8% OF THE TOTAL NUMBER OF FATALITIES)



TOO EXPENSIVE TOO SLOW TO ERECT

NOT HIGH ENOUGH

400S



