

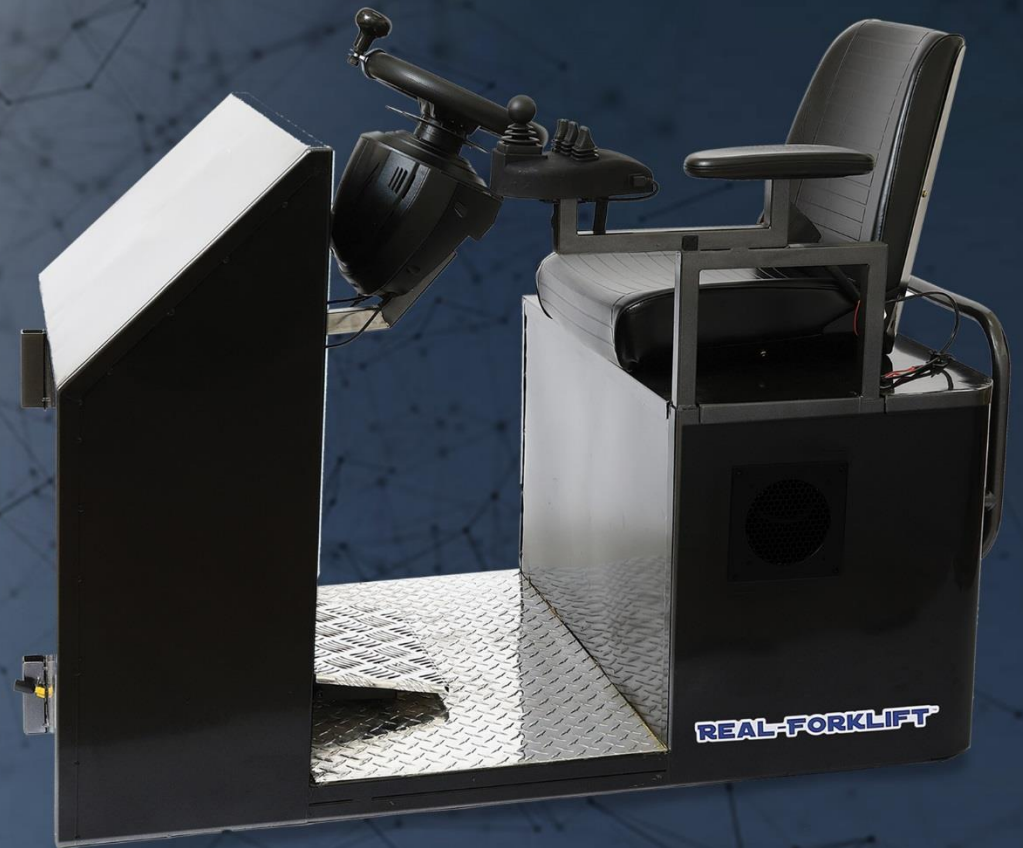
VIRTUAL REALITY

Brings Your Industrial Workplace to Life



WOLTERGROUP LLC®

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MEET YOUR SPEAKER



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Manager for Wolter
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19 years in material
handling experience as
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Manager and Trainer.

LET'S TALK ***FORKLIFT SAFETY***

- Seatbelts
- Awareness of Surroundings
- Load Handling and Procedures
- Pedestrian Safety

FORKLIFT INJURIES & FATALITIES

- Roughly 85 forklift fatalities & 34,000 serious injuries each year
- 42 percent of fatalities due to being crushed by a tipping vehicle

How is this possible, and where does it start?

FORKLIFT CITATIONS

- 2,294 OSHA citations under 1910.178 in 2018.
 - #1 reason for citations was related to training, retraining and certifying.

SEATBELTS: Pretty simple...right?

THE *PROBLEM*

- **What we see:**
 - People not wearing their seatbelts

HOW WE *TRAIN SEATBELTS*

- Simply tell the operator “put it on”!
- Educate them on the importance of center of gravity & cautious driving
- Center of Gravity best understood when wire forklift model is used!!!

HOW WE *FOLLOW UP*

We yell at them!

HOW *VR* CAN BE USED

- Alarm sounds when forklift is driving if a seat belt is not connected.
- Instant feedback!
- 5% point deduction

AWARENESS: *People, Places & Things*

THE *PROBLEM*

- **What we see:**
 - A lack of head movement to check surroundings
 - No “beep, beep” to let others know a forklift is coming around the corner or before backing up

HOW WE *TEACH* *AWARENESS*

- Instruct on importance of looking over **both** shoulders and using horn **before** backing up

HOW WE *FOLLOW UP*

- Stay away from those drivers that back up without looking and yell as we run away!
- Write them up *after* they hit the second sprinkler...

SIMULATOR VIEWS



LIFT	TILT	SHIFT	SPREAD
0	-0.4°	0	6
Operator		<div style="text-align: center;"> 105% Score </div>	
00:03:37.91		Damage \$\$\$	

LIFT	TILT	SHIFT	SPREAD
0	-0.4°	0	6
Operator		<div style="text-align: center;"> 105% Score </div>	
00:03:37.91		Damage \$\$\$	

HOW *VR* CAN BE USED

- Required actions before backing up-
 - Reverse Look, and beep beep!
 - -3% for each if not done
- +5% if both are done correctly

FORKLIFT MANUEVERS: *Fork Height, Tilt, Shift*

THE *PROBLEM*

- Forks and load carried improperly
 - Too high or low, improper tilt or side shifter not centered
- Loads are damaged
- Products fall off forks
- Pallets are damaged

HOW WE *TRAIN*

- Keep forks 2 to 4 inches off the ground
- Lift first, then tilt back
- Tilt forward until level then lower
- Re-center side shifter after using

HOW WE *FOLLOW UP*

- Buy more pallets and build more product!
- Promote them to a lead position that does not drive!

HOW *VR* CAN BE USED

1% reduction per second and voice notification if-

- Forks not at specified height over 2mph
 - Set by user
- Forks tilted forward beyond level
- Forks not centered

SCENARIOS



PEDESTRIAN SAFETY: *PROTECT YOUR PEOPLE*

THE *PROBLEM*

- Pedestrians may not understand what the driver is going through.
- Complacency
- Distractions

WHAT WE *SEE*

- People walking without looking where they are going
- Frustrated forklift drivers
- Lack of cooperation between employees

HOW WE *FOLLOW UP*

- Yell at each other
- Fire them *after* they almost hit their boss!

HOW VR SOLVES THE PROBLEM

- Allowable speed and distance from Pedestrians is set by user
 - Example- must be under 4mph when within 10 feet of a pedestrian.
 - 12% when too fast and close
- Hitting pedestrian
 - 100%

HOW VR SOLVES THE PROBLEM

- Pedestrians can operate the simulator in flat screen mode or VR
- While operating VR, pedestrians learn the blind spots, stopping distance and difficulty of driving a forklift that the driver goes through daily

LIFT	TILT	SHIFT	SPREAD
20	0.0°	0	7
Operator		100% Score	
00:00:00.00	Damage \$\$\$		

**Basic Training
Forklift**



**Advanced Training
Basiloid**



**Advanced Training
Box Clamp**



Lift Truck Training Modules

Use Gear Shift to Navigate Through Menu
Press Horn to Select

LIFT	TILT	SHIFT	SPREAD
20	0.0°	0	7
Operator		100% Score	
00:00:00.00	Damage \$\$\$		

TRAINING WITH VIRTUAL REALITY

6 Lessons –

1. Main components, driving & lifting controls
2. Pre-inspection, start up & post operation checks
3. Basic driving & lifting
4. Load & weight distribution
5. Lift, shift & tilt
6. Workplace operation & safety

THANK YOU!

FOR OPERATOR TRAINING, TRAIN-THE-TRAINER & VIRTUAL REALITY INQUIRIES, CONTACT US IN ONE OF THE FOLLOW WAYS:

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