

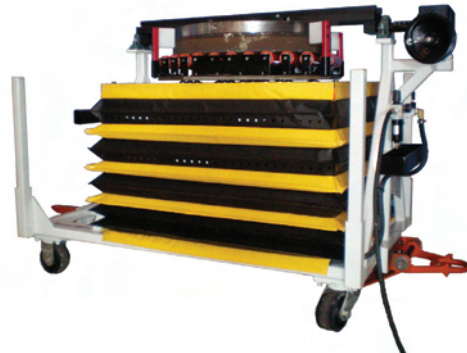
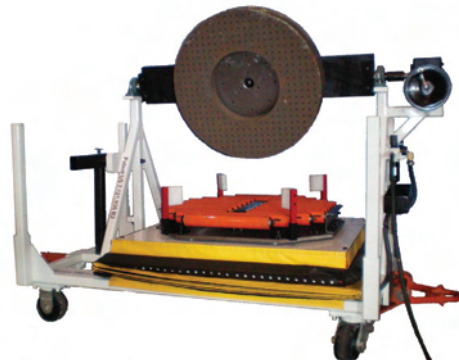
DISC GRINDER WHEEL CHANGE ASSIST FIXTURE CART AND TRANSFER CART

This Patented design is specifically engineered to safely handle Nut Inserted Disc Grinding Wheels and addresses the Safety and Ergonomics issues that have been around for years.

The "Wheel Change Assist Fixture and Transfer Cart" has a pneumatic air bag system for raising and lowering of the assembly. The rotation axis is a manual crank. The system can hold four grinding wheels and backing plates. One wheel and backing plate would be mounted to the change mechanism, one wheel and backing plate could be lying face down on the table and two wheels and their backing plates on the outer support cradle. U.S Patent # 7,121,936 B2

DISC GRINDER WHEEL CHANGE ASSIST FIXTURE CART AND TRANSFER CART Equipment Data

- Models can be built to accommodate 23" to 42" diameter disc grinding wheels.
- All models can be towed behind in-plant vehicles.
- Addresses safety and ergonomic issues.
- Functions with Besly, Gardner, Mattison, Giustina and C & B Disc Grinding Wheels.



DISC GRINDER WHEEL CHANGE ASSIST FIXTURE CART AND TRANSFER CART

Wheel Change Procedure

- ✓ The operator will remove the wheels and backing plate from the machine, this is done with eyebolts to the backing plate. Once the wheel has been removed, it only needs to be handled with the crane. The backing plate will be moved to the cart. Once there, the operator only needs to position the backing plate onto the pilot. This is the same pilot used on the spindle fange and will automatically line up the bolt pattern. Once the backing plate is on the pilot, two bolts are used to hold the backing plate in place. The bolts used are the same size as the ones that hold the backing plate to the spindles (The tools required are also the same.)
- ✓ One backing plate can be mounted directly to the change fange. The other can be hung on outer support cradle storage fange. This makes the sets mobile.
- ✓ Rotate the hand crank to set the horizontal position.
- ✓ Then using the pneumatic control lever raise the table up to contact the face of the worn wheel.
- ✓ The operator then removes the socket screws from the backing plate.
- ✓ Once the bolts are removed, the table is lowered to the desired height and the old wheel removed. (The wheels will easily move in and out on several rubber-coated rollers built into the table.)
- ✓ A new wheel is set in place and raised to the backing plate. The movement is easily controlled to allow for alignment of the dowel pins. There is a tray that can hold a sufficient amount of new bolts.
- ✓ Once the wheel is mounted to the backing plate, it is disconnected from the change fange.
- ✓ The table is then lowered completely.
- ✓ The change fange is then rotated to the change position.
- ✓ The table with the first set is raised up to perform the wheel change on top of the first set, reversing the procedure to place the wheels back in the upright position, either in the crib or after transport to the machine.

This process allows the operator to do everything with a crane. No setting it down on a floor, a table and then picking it up again. Also not trying to lay the set over on blocks and pushing with a foot possibly breaking eyebolts or damaging the wheel.

DISC GRINDER WHEEL STORAGE AND TRANSFER CART

The cart is designed to hold two sets of grinding wheels and backing plates. The cart allows for clear loading and unloading as the corner protection tubes are removable. Each grinding wheel set is independently mounted; wheels and backing plates do not touch each other. This prevents nicks and chips from the edges or faces of the grinding wheels.

The cart comes with the necessary hitch to match your tow motor. The hitch also flips up out of the way while not in use.

