

Unidex Roll Handling Equipment

Unidex Company

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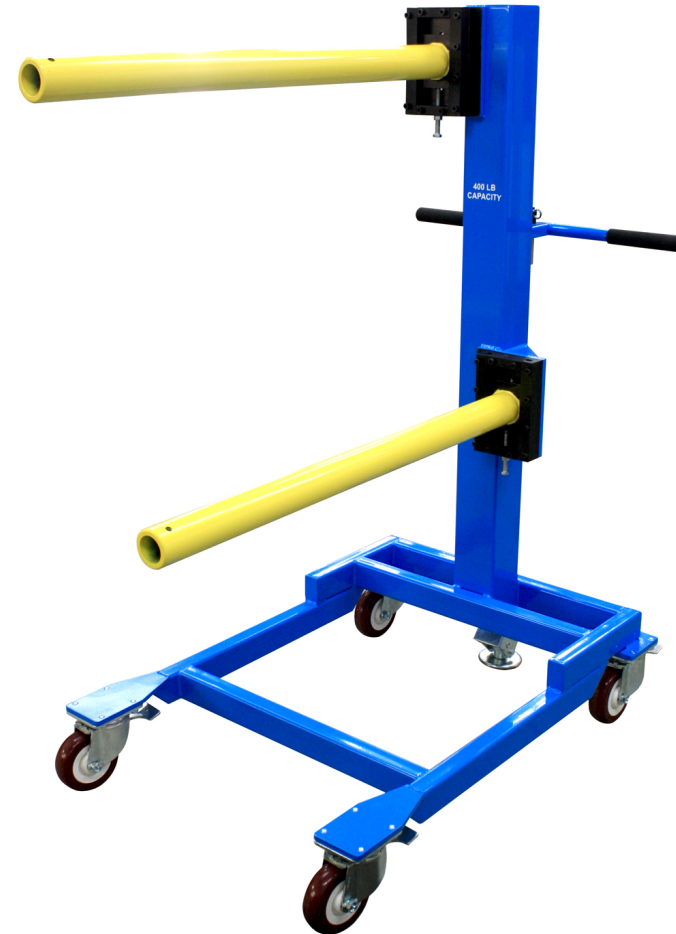
This is an AOL (Air over Oil Lift) Hydraulic Manipulator and is mounted on a portable base with a rigid core to pick and place a roll by the core. The 2 pc arm has manual lock pins to keep it in a fixed position when not in use. This unit only needs an air line to operate the manipulator. It is manually pushed. Max Weight Capacity is 75 lbs.



This cart supports 2 rolls getting loaded from a storage rack by a hoist with a core gripper. They are transported to the machine where the operator manually rotates the rolls 90 degrees (using the black lever) to offload on the spindle. The rotator was designed on the centerline of the rolls to allow an easy rollover with a max 500 lb capacity.



This cart that supports up to two rolls, supported by the core. The rolls are moved directly to the machine at the spindle height where they are manually pushed off. The cart weight capacity is 400 lbs, able to support two rolls 200 lbs each.



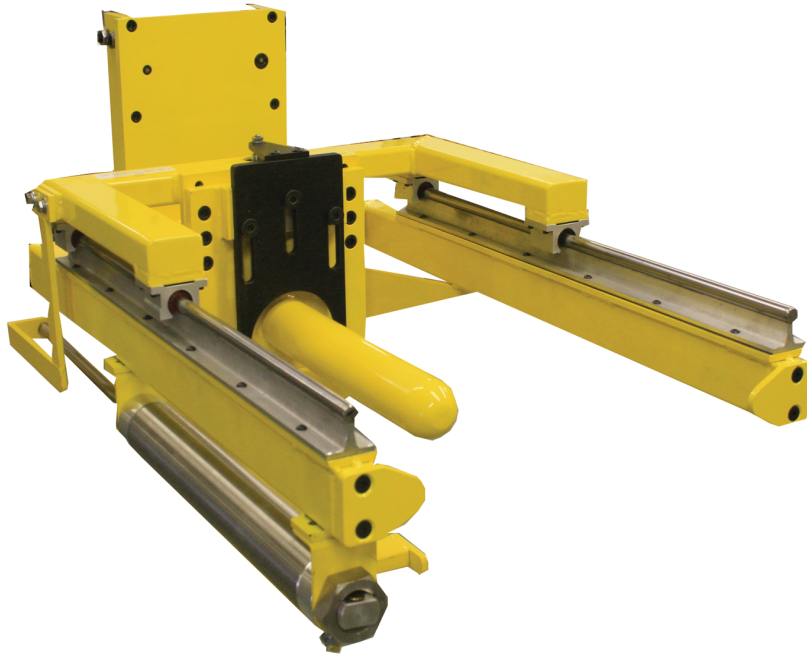
This is a manual push cart with a cradle to support large heavy rolls. The rolls are up to 48" diameter x 84" long with a capacity of up to 1500 lbs .



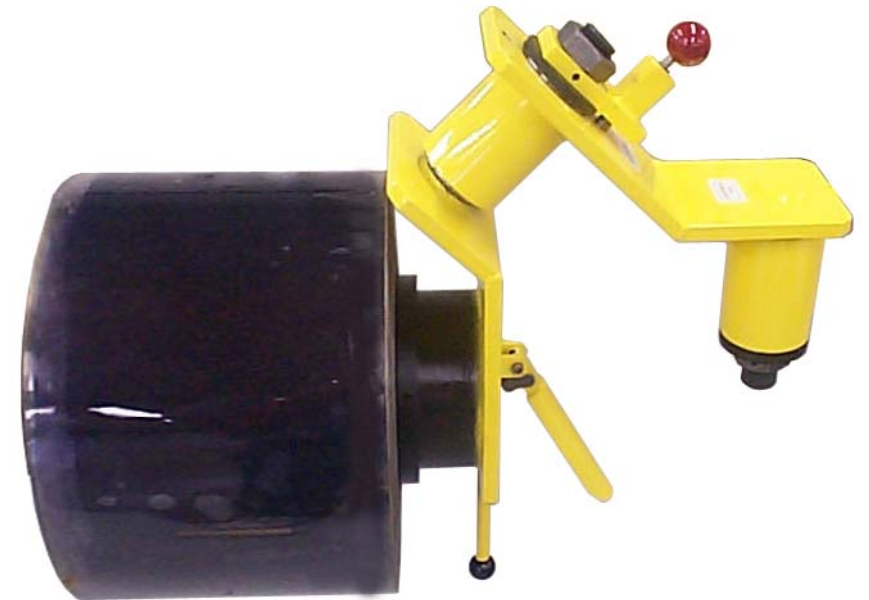
A customer came to Unidex with a unique problem. They needed help putting the cardboard sleeves on the long heavy shafts before storing on the rack. This device has straps to secure the sleeve and using an onboard winch, it pulls the shaft through the sleeve. Slots on the cradle allowed for access to lift the protected shaft.



This end tool supports a roll by the core and has an air powered pusher plate for unloading. The roll weight is 300 lbs and this tooling attaches to our PE Model Lift that has a power lift and manual push.



Shown below are two manual operated core grippers that offer manual 90 degree rotation. A handle is depressed that retracts steel “teeth” that bite into a cardboard core. Manual rotation is achieved by pulling on the knob to release from a locked position and using the handle, turn the roll 90 degrees. A positive lock is also included at 45 degrees.



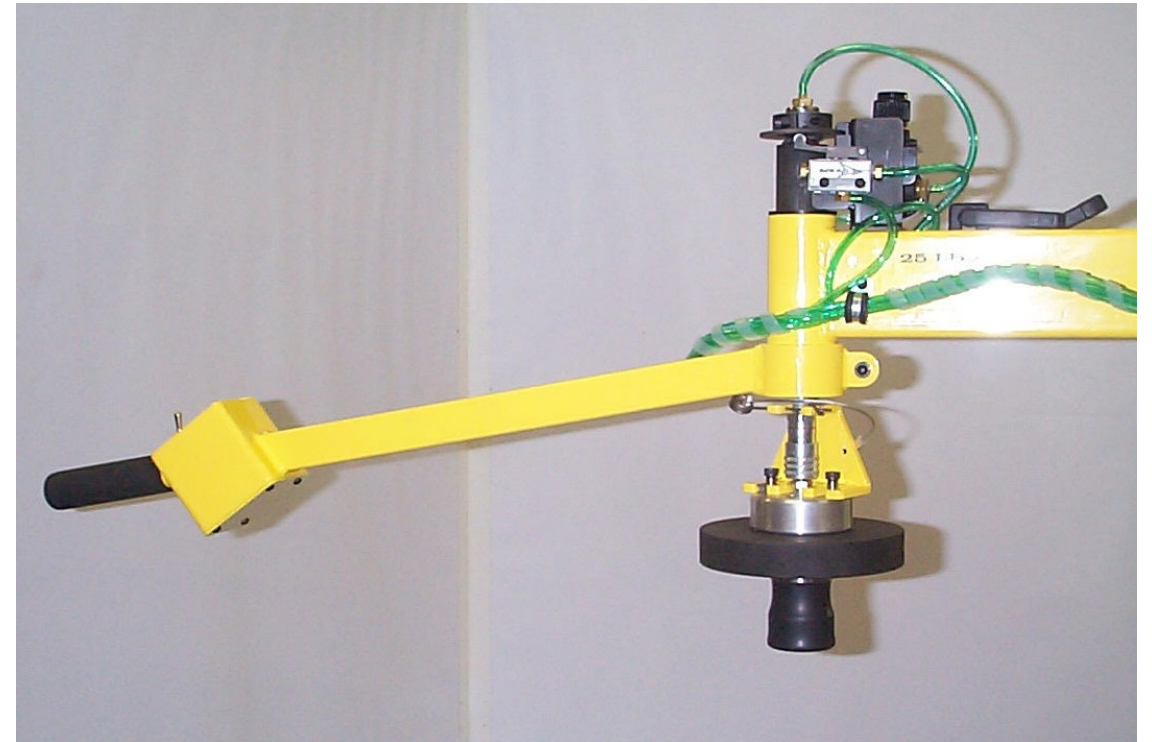
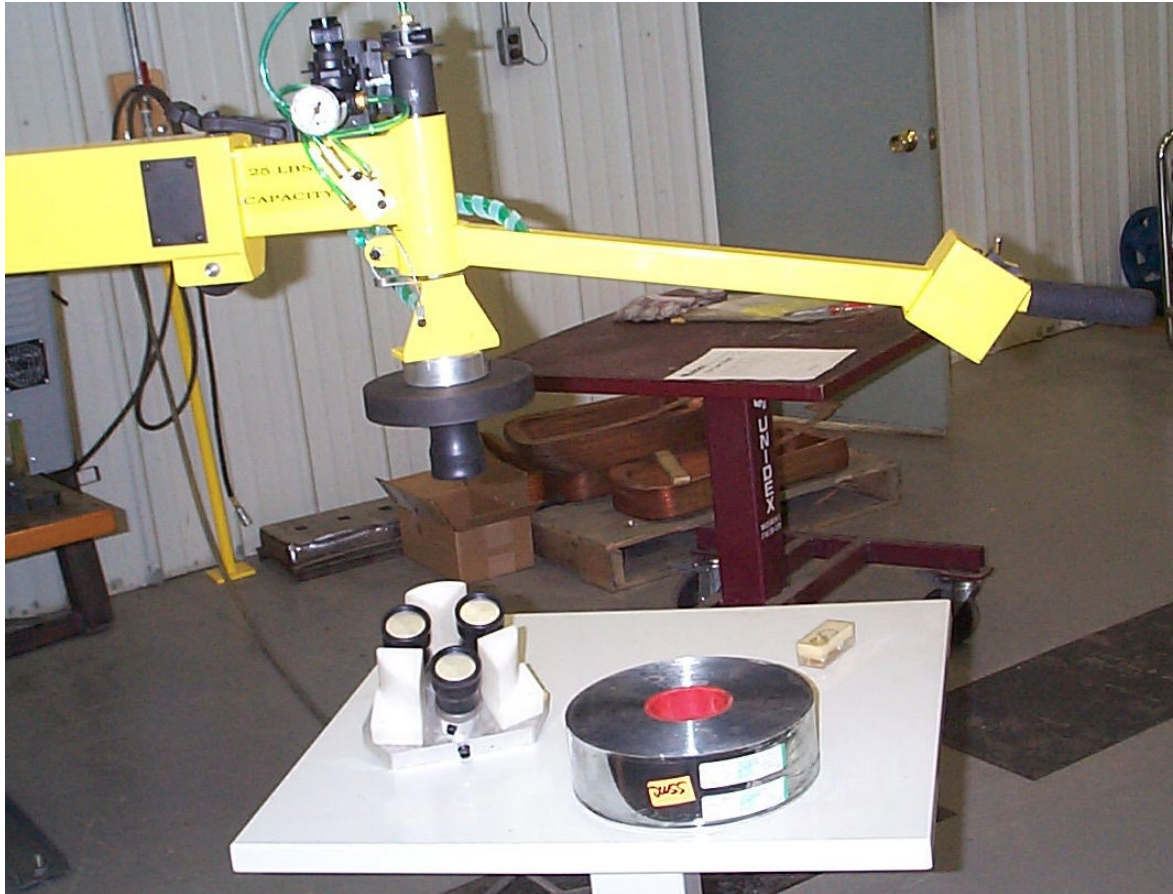
Below is shown two styles of core grippers for vertical pick and place. The left picture shows an end tool that can attach to a standard hoist hook. On the right is an end tool that incorporates an old style G Force handle.



This powered core gripper that we developed is mounted on our ECL Manipulator. It offers a power grip and a power upend. Typically it is used to pick rolls with the core horizontal, lift and rotate down to put on a pallet. This gripper can easily handle rolls up to 350 lbs.



Sometimes rolls are not heavy but they are a sensitive material. This is a lightweight core gripper and the operators are not able to touch the roll material. The rolls were 20 lbs. and this is mounted on a light duty manipulator with an articulating arm.



Shown is two manually adjusted support arms that pick a variety of sizes of rolls from the bottom. This application is designed for textile rolls that do not have a core. A hand wheel operated a left and right hand screw that allows the arms to adjust to the roll sizes. It is shown on our PE Model.



Another feature we can add to a simple probe is a small wheel at the end that offers a wheel to give the operator some leverage when manually loading or unloading the roll. The task of moving the roll is much easier with this feature.



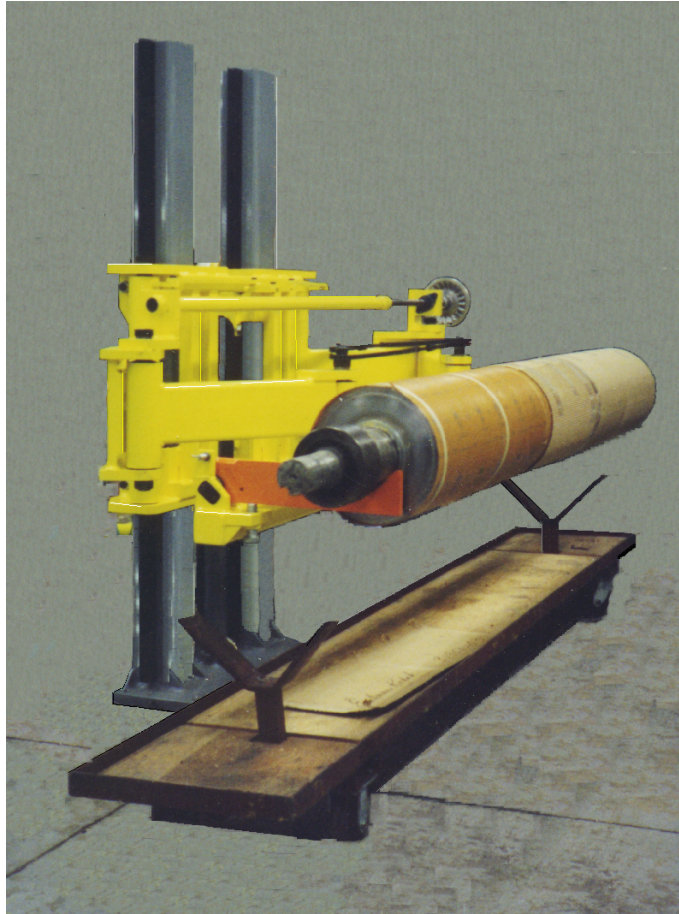
Unidex offers a stainless steel option for food grade, clean room or pharmaceutical environments.



Congested areas require a manipulator supported from an overhead bridge crane, we have designed multiple devices that can handle your exact needs. We offer turnkey projects that include the crane, manipulator and tooling.



Unidex has a wide range of solutions for Shaft and Roll Handling and we look forward to the chance to help with your needs. Please stop in, call or email with your specific needs to help your company reduce injuries and back strain and product damage.





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