

Custom Designed Material Handling Solutions



BELOW-THE-HOOK EQUIPMENT

ROTATING AXIS GRABS

GEAR MANUFACTURING



This 7 1/2 ton rotating axis grab lifts and rotates welded gear blanks before and after machining. Several sets of (orange) end effectors were provided to handle a variety of diameters and thicknesses. The end effectors are designed for quick changeover. A rotation motor is on each leg. The motors operate in tandem from a single VFD controller. When not in use the lifter rests on a storage stand.

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Model 2038 rotating axis grabs grip the load and rotate it about its horizontal axis. The unit can be operated manually or powered by electric or air motors.

Gripping force is generated by the gripping pad being pulled down an inclined plane, thereby wedging the load in a tight grip as it is lifted.



MACHINING APPLICATIONS



Whether machining gears, rollers, wheels or shafts, the part needs to be flipped over to machine all surfaces.



Solving Material Handling Problems

Below-The-Hook ♦ Floor Based
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ROTATING AXIS GRAB APPLICATIONS



Grab with fixed-position legs picks up solar reflectors



Lifting refractory blocks required grip pads made from conveyor belt material and four satellite pads to spread out the gripping force to prevent the block from crumbling.



A clamp assembly attaches to a mixing cylinder. Each leg uses two pins to mate with the clamp assembly, allowing a safe lift and rotation.



Inner and outer mold halves can be lifted and rotated during the molding process. Leg movement and rotation are by an air powered wrench.

ROTATING AXIS GRAB APPLICATIONS



Grab uses end effectors with retaining lips for added security when lifting repetitive parts.



Lifter legs are operated with a hand chain wheel. Rotation is by a hand lever with locking detents.



(Above) All motions are motorized. The bail adjusts to maintain level as the load CG changes while the gearbox is assembled.

(Right) Liquid is poured from a vat with this rotating axis grab that is powered by air motors. The rotation gearbox is self locking, meaning that a partially full, bottom-heavy vat can be held steady and will not drift back to vertical.

