Abrasive Disc Computer Die Cutting, Knockout & Stacking System (ABR-40)

Fully automated computerized traveling head press for cutting and stacking abrasive discs.
Features

- The unique stainless steel grid plate feeding device and stacking system can achieve perfect feeding and stacking for pressure sensitive adhesive (PSA) release paper backing of abrasive sandpaper material.
- The auto knock out and stacking system will stack cut parts to user preset quantities ready for packing.
- Two axis computer numerical control traveling head die units cutting machines with three sets of servo motor positioning.
- Motorized four post mechanical stops for accurate bottom position control.
- P.P. cutting pad with pad shifter.
- Punch slug box under head to automatically collect scrap material.
- Pneumatic die rails under head for quick and easy die mounting.
- Dual rack and gear drive for inboard and outboard clamping beam feeding system.
- Gravity roller on inboard and outboard conveyor.
- Stainless steel grid plate feeding device to help feed flimsy abrasive material across the cutting pad.
- Separate sealed hydraulic unit and external line filter.
- Seal protected against abrasive damage.
- Synchronized pneumatic knockout system.
- Auto stacking system and delivery conveyor.
- Inboard and outboard safety fence guarding.
- Two roll tension adjustable heavy duty material stand.
- Air cooled oil cooler.
- High speed hydraulic system.

Advantages

- Three sets of servo motor positioning systems with position accuracy of ± 0.2 mm.
- Working capacity of up to 57,600 pieces of abrasive discs per eight hours with two cavity cutting dies to cut two plies of roll material.
- User friendly computer control and 100 cutting program memory provides easy operation.
- Punch-slugs go through punch tube to slug box under head. You can uses a vacuum cleaner to clear out the slugs.
- Cut part auto knock out & stacking system will stack cut parts to preset quantity ready to be packed. This function can save labor.
- Auto cutting directly from jumbo rolls can not only simplify the manufacturing process, but can also achieve material savings of up to 15%.
- Unique stainless steel grid plate feeding device and stacking system can achieve perfect feeding and stacking results for all kinds of non-woven felt, Velcro backing, and pressure sensitive adhesive (PSA) release paper backing of abrasive sandpaper material.
- Separate sealed hydraulic unit with external line filter and seal protected moving parts protects against abrasive entry and can provide excellent machine durability.
- Unique function cuts deeper automatically to compensate for worn-out die blade edges and obtains excellent clean cut parts.
- Motorized four post mechanical stops stroke control device allows the cutting die to just touch the cutting surface and therefore can provide excellent die and pad life.
- P.P. pad shifter device can save cutting pad cost and provides clean cut parts.

Range of Application

- Auto cutting and stacking of jumbo roll abrasive sandpaper material.
Options

Machine Options

- Polypropylene Cutting Pad and Oscillating Pad Shifter on the Bed of the Press – The oscillating pad shifter greatly improves the cutting pad life by rotating the cutting pad on a circular path after each cut.
- Material Unwind Stand – Four roll material unwind stand with adjustable mechanical brake for 19.7” (500mm) diameter material.
- High Speed Hydraulic Unit with Air Cooled Oil Cooler – This is a special hydraulic system so the press can make more cuts per minute than it would make with a normal hydraulic system. The oil cooler is to keep the hydraulic fluid at proper operating temperature.
- Separate Sealed Hydraulic Unit With External Line Filter – Is used to keep contamination out of the hydraulic fluid. Chipboard creates a lot of dust which is not good for the hydraulic system.
- Industrial PC Based Operator Interface – A PC that is designed to be on the shop floor. It operates on Windows. It can be replaced by any desktop or portable PC.

Specifications

55.1” (1400 mm)