

HMA Materials Handling and On-Trak Engineering work in partnership to design and manufacture our Heavy-Duty Reclaim/Chain/Apron Feeders which are constructed to suit the heaviest of conditions covering the majority of product types. The final size of each unit can be modified to suit the end users' requirements. The HMA/On-Trak Reclaim Feeders has right angle shaft-mounted gear reducers, electrical control panel complete with a feed system/discharge hopper capable of feeding material onto a belt at a variable rate from 500 to 2,500TPH with options for electric or hydraulic drive.

CONSTRUCTION MATERIALS

The deck materials range from 250 Grade mild steel up to Chromium Laminate, with the thickness determined by the application and potential wear rates from the material being conveyed.

DRIVE SYSTEMS

Our conveyor drive system is an electro-mechanical conveyor, designed with a single electric or hydraulic motor that is suitably sized to meet the arduous conditions.

A separate hydraulic power unit (HPU) may be required if hydraulically driven as opposed to electric drive, which includes a suitably sized motor mounted on a separate dedicated frame assembly.

SOME DESIGN ATTRIBUTES-

- Manually adjustable flow control gate
- Variable frequency drive (VFD) to allow the required flow rate to be varied through the control system if the electric drive option is used.
- A hydraulic system that can vary the drive speed through a PWM controller if a hydraulic drive option is used.
- We use the Round Link Mining Chain or Engineered Chain
- Flight bars can be fabricated or cast, depending on the method of attachment chosen at the design review stage with all stake holders.

- Our bearing housings are typically billet steel, instead of cast iron which provides added security to prevent failures.
- Our flight bars are larger than standard which provides longer lasting performance
- The system can also include auto tensioning of the chain via the local hydraulic power pack if required, meaning less maintenance and improved operational performance.
- The conveyor shafts and sprockets are designed to suit the final machine with the aim to putting less stress through each sprocket that in turn allows for a longer expected design life.
- The system includes numerous devices for monitoring the performance which includes feedback into the local control system for alarming and operational purposes.

