# EQUIPMENT PERFORMANCE SPECIFICATIONS

**Truck Tipper** raises at 60 degrees maximum; 62 degrees shut-off

**M-3-C Model 836-T Heavy Duty Industrial Triple Pass Dehydration System** to process 24,952 pounds per hour of wood pellet furnish containing 48% moisture, wet basis. Material going into the dryer shall have maximum dimensions of ½" thick. The dehydration system is designed to dry the produce to a moisture of 10% wet basis.

1) One M-E-C model 836-T heavy duty dryer consisting of:

   a) One three-pass dehydration drum, 8' diameter X 36' long, with dual triple-tooth driven sprocket, chain tightener adjustment blocks, and positive engagement chain guides assembled to the shell. The two 3" thick X 5" wide forged steel trunnion tracks are mounted on ¾" thick X 24" wide carbon steel bands and supported by ½" thick carbon steel end plates. Tracks are manufactured of special monolithic forged alloy steel with a minimum tensile strength of 120,000 psi and a minimum Brinell hardness number of 241.

      First pass inner drum is constructed from 3/16" thick carbon steel plate with 12 rows of formed 3/16" thick carbon steel flighting running the entire length of the drum.

      Second pass intermediate drum is constructed from 3/16" thick carbon steel sheet with 16 rows of formed 10-gauge carbon steel flighting.

      Third pass outer drum shell is constructed from 3/16" thick carbon steel plate with 16 rows of formed 10-gauge carbon steel flighting, discharge cone, inner drum brackets, and expansion rings. Both first and second pass drums are supported at one end with fixed anchor plates and at the other with expansion rings. The outer drum shell is insulated with 2" thick mineral fiber blankets and jacketed with 14-gauge carbon steel sheets.

   b) Front and rear trunnion bases of structural steel beams, with each base including two 18" diameter X 6-1/2" face forged steel trunnion wheels having a Brinell hardness number of approximately 320, mounted on 3-11/16" diameter special high tensile steel shafts and supported by 3" special duty roller bearing pillow blocks having a B10 life rating in excess of 30,000 hours.

      The rear trunnion base is equipped with two machined cast steel, spring-loaded thrust wheels 12" in diameter X 3-1/4" face and motion switch.

   c) Two solenoid valve-operated drip type oil lubricators, each with 1.0-gallon capacity reservoir to automatically lubricate both front and rear trunnion wheels and tracks.

   d) One drum drive consisting of dual No. 100 cottered roller chain, drive sprocket, spring-loaded idler sprocket and solenoid valve-operated drip type oil lubricator for automatic lubrication of drive chain. Drive unit is mounted on a structural steel base with geared speed reducer and fluid coupling for high torque drum starts, with 10 hp motor.

   e) One brass/spring steel inlet seal and segmented spring steel plate outlet seal assembly for positive leakage control.

   f) Two track guards for front and rear to protect machined track surfaces from accumulation of plant waste.

2) One M-E-C Model 2418-RT primary collector rotary outlet airlock, with replaceable high temperature flexible rotor tip seals, flange mounted bearings, gear reducer and motion switch, roller chain drive, drive guard, and motor base with 3 hp motor.

3) One M-E-C Model 90 induced draft fan, Arrangement 1, of heavy-duty industrial construction, with rimmed impeller, split housing, hinged access door, housing drain, inlet box, manually operated wafer blade inlet damper, fan inlet vibration joint, fan discharge vibration joint, guard, belt drive components, with 150 hp motor. The operating sound pressure level of the induced draft fan is expected to be 85 dBA or less at one meter, with insulation and cladding supplied and installed by BUYER to SELLER'S specification.

**WSW (West Salem Machinery) Hammermill**, Model 4460. 350 hp.

**La Meccanica Pellet Mills** spec to produce 3.5 to 4.0 tons per hour of unscreened pellets measured at pellet mill discharge.

1) Pellet mill CLM800P
    a) Maximum 400 hp
    b) Die type, Lamec 800. 150/285 (46.5 $dm^2$)
        1) Screw feeder C245 (vari-speed drive excluded)
        2) Conditioner M500 2630 (excluded motor drive)
        3) Bloc press CLM 800 P including 1 die and 2-roll assemblies
        4) Main motor (400 hp 8 poles 900 rpm excluded)

    c) Force feeder

    d) Manual winch (hoist)

    e) Automatic lubrication system for pellet mill
        1) Pump
        2) Distributor
        3) Rotative connection for lubrication system
        4) electrical panel for lubrication pump

    f) Control device for preventing belt slippage type IFM

    g) Reverse motors and slip belt device

**Milpro Current Cooler** 8 tons per hour

**Storage Bin (Silo)** 500 cubic foot capacity

**Nova Bagging Line** with Kawasaki stacker. 12 bags per minute. System must be capable of packaging 480 pounds, 12 (40 pound) bags of wood pellets per minute. System must be capable of supporting multiple bag sizes.