



# BUSS MACHINE WORKS

HOLLAND, MICHIGAN, U.S.A.

## SPECIFICATIONS

FOR

### Buss No. 208 — 20" x 8" Double Hoist Screw — Single Surface Planer

#### Capacity:

1/16" x 8" thick.  
20" wide.  
Plane pieces 10 1/2" singly; 4" butted.

#### Frame:

One piece 34" x 36" semi-steel casting of rigid construction. Solid base supports machine. Four long, machined ways with take-up gibs for guiding table.

#### Table:

Table is a one piece heavily ribbed semi-steel box construction, 36" long, 22" wide. The accurately machined table is raised on two large elevating screws 1 1/4" diameter with thrust bearings. A double set of bevel gears through handwheel adjustment at front of machine maintains parallelism of table with cutterhead at all positions of the table. Safety stops limit upper and lower positions of table.

#### Cutterhead:

Cutterhead 4" diameter, cutting circle 4 1/4", carries three or four thin high-speed steel knives, round safety type head mounted in precision ball bearing. Knives are clamped firmly in cutterhead.

#### Rolls:

Four driven rolls 3 7/16" diameter, three of smooth steel, machined, one sectional all steel roll has outer section of corrugated steel, driven by lugs welded to drive shaft. Roll has independent yield of 1/4". Two rubber inserts for each section keep sections centralized.

#### Feed:

Two rates of feed, 20 to 30 feet per minute or 30 to 45 feet per minute are provided. Four rolls are chain driven through 2-speed gear box powered by V belt driven from cutterhead motor. Variable feed which is available provide 15 to 45 feet or 20 to 60 per minute. This Roto-Cone drive through Worm and Gear Reduction Unit driven by 1 1/2 H.P., 1800 RPM motor which is enclosed in base of machine.

#### Gears:

The gears are alloy steel, stub tooth, and turn on anti-friction bearing. They compensate for lower rolls; thus they are in full mesh regardless of depth of cut or position of bed. The gears drive all four rolls through roller bearing chains. The steel gears in gear box run in 600-W lubricant or equal, and are changed for the two rates of feed by means of lever handle at the front of machine.

#### Pressure Bar:

The Pressure Bar or Shoe directly back of cutterhead is steel of heavy cross section, and the bottom of Shoe is machined. This bar has independent end adjustment, under the adjusting screws are coil springs, also adjustable for the right tension to hold stock solid to the bed while passing through machine.

#### Sectional Chipbreaker:

The Sectional Chipbreaker Frame is a one-piece Steel bar 2 5/8" deep and 1" wide, carrying vertical adjusting screws at each end; also coil spring tensioned at each end for vertical movement of the entire Chipbreaker. The sixteen sectional shoes are one-piece steel, 1 1/4" wide, hardened for long wear. Each section has coil spring tension. Each section is adjustable from above and allows 1/4" independent yield. Chipbreaker is prevented from being forced into the knives on extremely heavy cuts by Safety Lift pins above infeed roll.

#### Lubrication:

Cutterhead housing provided with oilers for lubrication. Machine is fitted with demite grease fitting.

#### Cutterhead Motor:

Cutterhead is powered with a 5 H.P. motor, normal torque, low starting, 40° V-belted to the cutterhead and built into the base of the machine, giving cutterhead speeds of 3600 to 6000 RPM. Motor protected by thermal relay switch, overload and under voltage protection, push button operated. Motor and wiring according to N.E.M.A. specifications.

#### Knife Grinding Equipment:

The electric Knife Grinder is built into the Planer and consists of heavy brackets and rail, a one-piece semi-steel casting. The rail is square gibbed and carries a 2 1/8" diameter cup-wheel stone adjustable for depth of cut, controlled by a finger wheel at the top. Knife is locked in position against stop by a counter-weight. The motor is 1/6 H.P., 3450 RPM, and is moved transversely by hand. The motor is lifted from the rail when replacing the shaving hood.

#### Guards:

All moving parts completely enclosed to afford safety to the operator. Shaving hood, tools and necessary wrenches furnished with machine.

#### Shipping Weight:

Floor Space 36" x 40".  
Net Weight 2250 Pounds.  
Crated Weight 2350 Pounds.  
Boxed Weight 3000 Pounds.  
Cu. ft., export boxed—80.

PLANER SPECIALISTS EXCLUSIVELY