

**SIP**<sup>TM</sup>  
SIMPLEX IDEAL PEERLESS



## THE IDEAL 650<sup>TM</sup>

AN AFFORDABLE AND PRECISE BED KNIFE GRINDER

**ENTRY LEVEL BED KNIFE GRINDER** that outperforms the competitions' top of the line grinders.

**DISTORTION FREE MOUNTING** with our unique v-support which eliminates forces which could distort the bed knife while grinding

**PRECISE GRINDING** automatically aligns the bed knife mounting pivot bolts parallel to the carriage travel so that both faces are ground parallel to the pivot bolts within .002 inches.

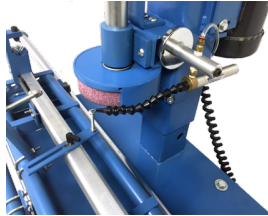
# THE IDEAL 650™

## AN AFFORDABLE AND PRECISE BED KNIFE GRINDER

### OPTIONS



55001-01 The optional carriage drive is powered by a sealed, permanently lubricated rodless pneumatic cylinder with a self draining filter regulator. This makes the carriage drive virtually maintenance free. It can be purchased with the grinder or easily added at a later time.



50200-01 Vortec Cooling. The cooling system uses compressed air forced through a vortex then expanded to chill the air to close to freezing. This results in cleaner and less expensive cooling



77365-01 Calibration Bar is ground flat and parallel to within .001 inches and can be used to check the quality of your grind.



79028-03 Ceramic Stone will grind bed knives in half the time as a standard aluminum oxide stone.



77565-03 Extended 10 Year Warranty

### FEATURES

- The track shafts are induction hardened, turned, ground, polished, and hard chrome plated for maximum durability and precision.
- The front shield easily swings out of the way for easy access to the grinder.
- Pneumatic Counterbalanced Head. An air cylinder inside the column provides perfect counterbalance to the weight of the grinding head to prevent the head from dropping and move smoothly up or down.
- 1/2 horsepower, totally enclosed-fan cooled grinding motor provide all the power you will need and are maintenance free.
- Single point in-feeds eliminate alignment errors caused by dual end in-feed systems.
- Diamond dresser make it fast and easy to keep the grinding wheel dressed.
- Maintenance free pneumatics include a factory lubricated and sealed cylinder and a self draining filter regulator.
- The v-support pallet grinds both the front and top faces parallel to the mounting bolts.
- The optional Vortec coolant system gives optimum cooling without coolant. This eliminates disposal problems, odor and infections.

### SPECIFICATIONS

- 70 in wide x 32 in deep x 60 in high 178 cm x 81 cm x 152 cm)
- 35 in carriage travel 89 cm)
- 500 pound shipping weight 225 kg)
- 6 x 3 x 1-1/4 cup grinding wheels
- 1/2 horsepower, totally enclosed fan cooled grinding motor
- Optional maintenance free pneumatic carriage drive
- Single point grinding wheel in-feeds
- Induction hardened, ground, polished, and hard chrome plated track shafts
- V-pallet support the bed knife without distorting it
- Mechanical clamps
- Front Shield
- Optional Vortec cooling

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