



NIGHT HAWK MFG. & REPAIR, INC.

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## Mill Heads only: for the do-it-yourselfer

Mill heads are just that, the pellet making part of the machine. The mill head does not include the diesel or electric motor; the framework that the mill would normally come mounted on, or any of the electrical controls. We currently offer mill heads in a couple of styles, and many sizes. This gives you several options to choose the mill head that best fits your needs, based on your mechanical knowledge and budget.

Some mill heads have a pulley on the input of the gear box, whereas some are just a shaft so they can be direct coupled to your own motor or jackshaft. We are expecting the arrival of the #PP-PTO mill heads by the end of March if all goes as planned. This model is able to run directly off from 540rpm PTO power - using a PTO shaft directly coupled to the input of the gearbox. With some of the mill heads, you would supply your own gear box or other drive idea. This flyer contains detailed description of the different types of mill heads that we currently carry, as well as their recommended horsepower input. Prices subject to change base on availability.

### FIXED ROLLER SHAFT MILL HEADS

One of the two primary styles of the flat-plate pellet mill is where the roller shaft or axle stays stationary in the mill head and the die plate rotates. The mill heads we sell in this style range in horsepower. Here is a TT 75 an example of the fixed roller axle design. It has an 8in die and the recommended horsepower for this head is 7.5hp. This mill head doesn't come with a gear box, that part is up to you. The recommended running speed, along with the roller/die geometry of this mill make it an excellent candidate for wood pellet making.



Price.....\$3,500

Here is another example of a fixed axle mill head. This is a PP600. It has an 8in die and 10 hp is recommended. These mill heads have the gear box and pellet making head in one casting. They use a ring and pinion style gear reduction. They work really well making pellets out of softer biomass. They will also make wood pellets but do require a binder mixed with the wood. We have found it takes a minimum of 5% by weight of Pellet Bond to make a good wood pellet with these units. However wood blended with another product works just as well as does using DDG or other grains. To make pellets out of all other agricultural residue along with paper waste, etc, is no problem.



Price.....\$3,200

### OTHER FIXED AXLE MILL HEADS ONLY

~ #TTG-3	5"Die, input power 3hp (gearbox w/straight shaft for direct couple of motor to mill head)	\$1,000
~ #TTG-5	6"Die, input power 5hp (gearbox w/straight shaft for direct couple of motor to mill head)	\$1,200
~ #PP600	8"Die, input power 10hp (gearbox w/straight shaft for direct couple of motor to mill head)	\$3200
~ #TT-75	8" Die, input power 7.5hp (mill head only w/vertical shaft-no gearbox)*see above photo	\$3500
~ #TTG-8D	5"Die, input power 8hp diesel (gearbox come with pulley for v-belt drive)	\$1,000
~ #TTG-22D	9"Die, input power 22hp diesel (gearbox comes with pulley for v-belt drive)	\$3,500
~ #PP650 D	8"Die, input power 15hp diesel (gearbox comes with pulley for v-belt drive)	\$3,200
~ #PP-PTO	8"Die, requires about 20hp min. 540 rpm tractor (gear box only, no frame work, couple or pto shaft)	\$3,600

# Mill Heads only for the do-it-yourselfer

## ROTATING ROLLER CARRIAGE MILL HEADS



The second of the two primary styles of the flat-plate pellet mill is where the plate stays stationary in the mill head and the carriage the rollers are on rotates. This

makes this style of mill head very versatile. The rotating carriage acts as an agitator keeping any light fluffy biomass flowing under the rollers. Here is a picture of our TT300 at our facility. It has a 16in die plate and recommended horse power for this mill is 30hp. It's "little brother", the TT200, is styled the same. The recommended speed of this mill head along with the die geometry, and quality construction, make it an excellent candidate for all biomass. High quality wood pellets can be made with little or no binder.

**Price.....\$9,995**

Here is another example of a rotating roller carriage mill head. This is on a PP650D-W. It has an 8in die and 10 to 15hp is recommended. These mill heads have the gear box and pellet making head in one casting. They use a ring and pinion style gear reduction. They have also added another gearbox on the input of the mill head to slow it down even more and give it more torque. These work well making wood pellets out of much less of a binder, about 1% by weight. They work equally as well with other biomass and the rotating roller carriage acts like an agitator keeping any lighter fluffy biomass flowing through the machine under the rolls.



**Price.....\$3,800**

## OTHER HEADS WITH ROTATING ROLLER CARRIAGES

~ #TT200	12"Die, input power 20hp (mill head only with shaft, no gear box).....	\$7,750
~ #TT300	16"Die, input power 30hp (mill head only with shaft, no gear box).....	\$9995
~ #PP600-W	8"Die, input power 10hp (mill head with second gear box, straight shaft for direct couple).....	\$3,800
~ #PP650D-W	8" Die, input power 15hp (mill head with second gear box, pulley on input shaft) .....	\$3,800

**NEW!**



New to our product list are small to medium sized mills. They are available as a complete setup as shown, or as mill heads only (without motor, controls, framework, and feeder auger). The heads only are available with 2 different configurations. One option is with a straight shaft to couple to an electric motor. Another option would be with a pulley that could be driven with a diesel motor; or adapted to your PTO jack shaft drive to be run with your equipment. The TTC2250 shown here, a fixed axle style, is their most popular model with capacities from 350 to 575 lbs per hour. These mills are a great option for the customer wanting higher capacities than the small personal machines have, but not ready to purchase a high production machine. There are currently a limited number of this type of mill on order that can be put on hold with a 20% down payment, with balance due prior to pick up or shipment. We expect arrival in late May or early June. Call for details and reserve one today as we are expecting these to move quickly.

### Special introductory prices!

**TTC2250 mill head only 10in die plate\*350 to 575lbs per hr**  
 .....(no motor, controls, frame work or feeder auger)  
 \*\$3,800 shaft drive      \*\$4,100 with pulley on input shaft  
**TTC2300 mill head only 12in die plate\*660 to 1100lbs per hr**  
 .....(no motor, controls, frame work or feeder auger)  
 \*\$9150 shaft drive      \*\$9450 with pulley on input shaft