

The "DIAMANT" grinding mills are sold by tens of thousands all over the world, and highest prizes have been awarded at international exhibitions.

**CAST IRON HOPPER;** The cast iron hopper is part of the mill itself and contains approximately 1.2 kilos of grain.

**MILL CASING:** The mill casing and cover are made of cast iron and have long main thrust bearings, and the joint surface of the stationary grinding disc is precision made.

**SHAFT:** The shaft is sturdily designed and includes a feeder worm, which ensures a uniform feeding of the mill and at the same time pre-crushes the product. Therefore, you will always get the mill emptied after use.

**LUBRICATION:** The mill has only two greasing points, namely where parts No. 7 — lubricators — are inserted. No special grease is required. The lubrication should be checked every 2—3 hours when motor -driven and daily when hand-operated.

**REPLACING GRINDING DISCS:** The wing nuts No. 6 -are loosened, and the cover No. 2 turned clockwise. When the cover is removed, the runner disc is loose. The three screws No. 18 are loosened, and the stationary disc is free. It is advisable to clean the internal mill, especially the thrust bearing which should also be greased. The new stationary disc is mounted with three screws No. 18. The runner disc is placed in position in such a way that the two pins of the disc are fitted to the tap-holes of the shaft. The thrust bearing is inserted and greased at the ball end. Finally, cover No. 2 is placed in position, and wing nuts No. 6 are loosely fitted. The regulation screw No. 3 is loosened before the tightening of the wing nuts No. 6.

**MOISTURE AND FAT:** The mill can be used for grinding of products with a high moisture content as it can easily be opened and cleaned without any special tools. Due to the special force-feeding worm the mill is suited for grinding products with a high oil content.

**SHIPPING:** The flywheel is always disconnected when shipping to limit volume and freight expenses and in order to prevent damage of the shaft.

Average output per hour of wheat, maize, rice etc.

Hand power:

When ground to flour, about 15 lbs/hour

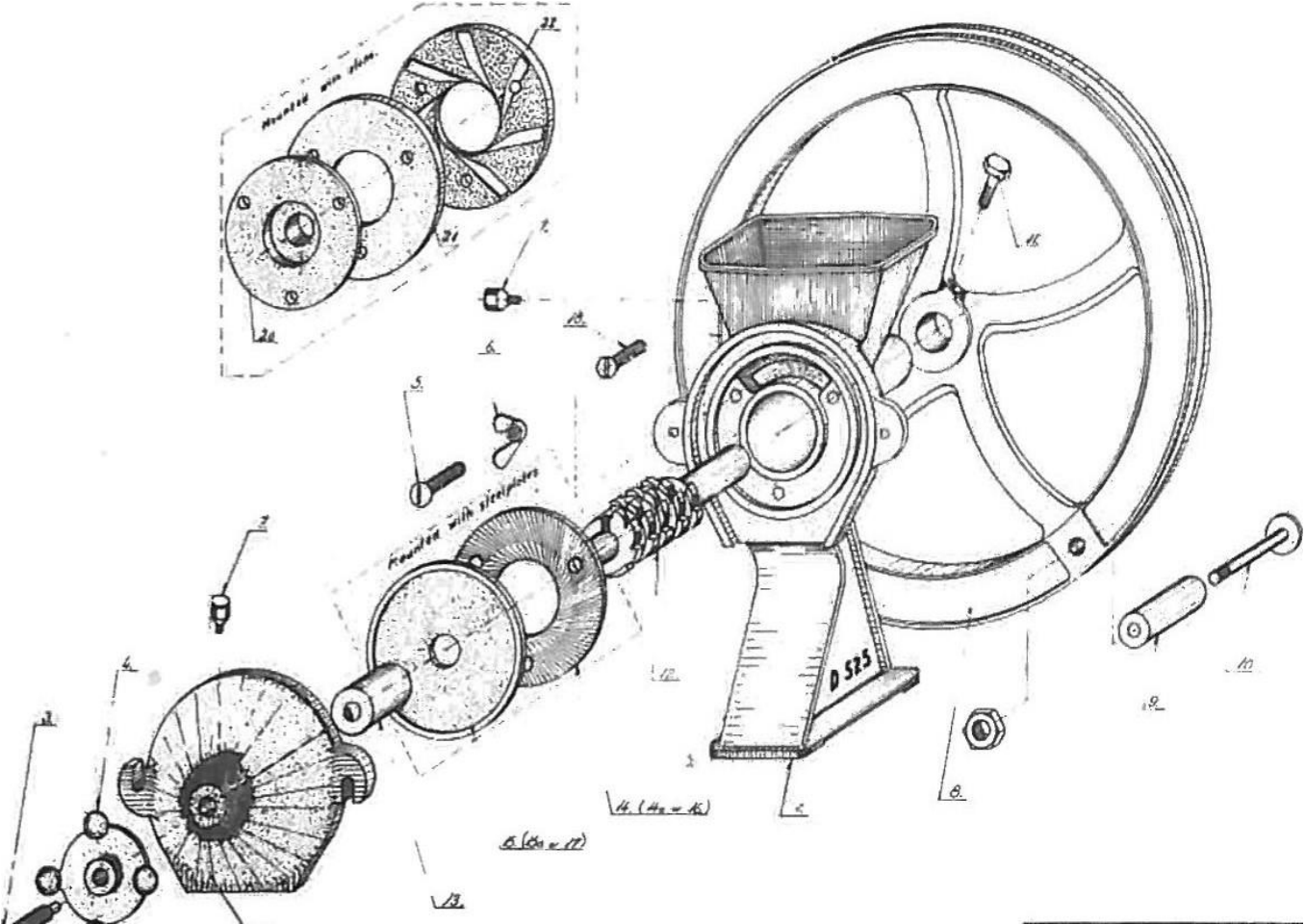
When crushed to kibbles (as for animal feed), about 40 lbs/hour

Motor power:

When ground to flour, about 40 lbs/hour

When crushed to kibbles (as for animal feed), about 105 lbs/hour

# Parts



- 1. Mill casing
- 2. Mill casing cover
- 3. Regulating screw
- 4. Locking wheel
- 5. Mill casing screw
- 6. Wing nut
- 7. Lubricator
- 8. Flywheel
- 9. Handle
- 10. Bolt with nut for handle
- 11. Screw for flywheel

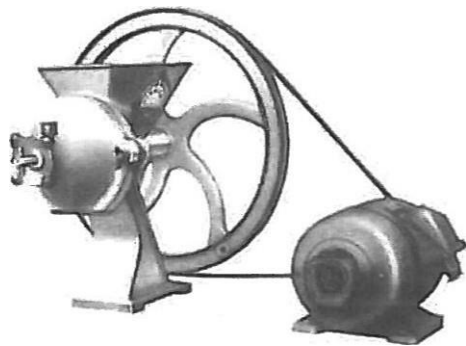
- 12. Shaft with worm
- 13. Thrust bearing with steel ball
- 14. Stationary grinding disc, normal
- 14a. Stationary grinding disc. fine
- 15. Rotating grinding disc. normal
- 15a. Rotating grinding disc, fine
- 16. Stationary disc, coarse
- 17. Rotating disc, coarse
- 18. Screw for stationary disc
- 19. Screwdriver
- 19a. Wrench

# To disassemble for cleaning or parts replacement:

1. Remove the two wingnuts #6.
- 2.
3. Remove the mill casing cover #2, which slips off after the wingnuts are removed.
4. The flywheel can be removed by loosening the flywheel screw #11. When the mill is shipped to you, the flywheel is off. Be sure to properly tighten #11 when installing.
5. Once the flywheel is off, the shaft #12 to which the flywheel was connected can be removed from the mill.



## Motorizing



The mill can also be operated by an electric motor. The flywheel has a groove for V-belt drive.

We recommend a ½ to one horsepower motor at 1400 rpm. Motor pulley should be 3 ½". Mill should have approx. 300 rpm in use.

**CAUTION:** Make sure to cover (shield) the belt and keep hair, clothes and loose objects away.