

PRECISION DIVIDER (GAMET TYPE) Instruction Manual

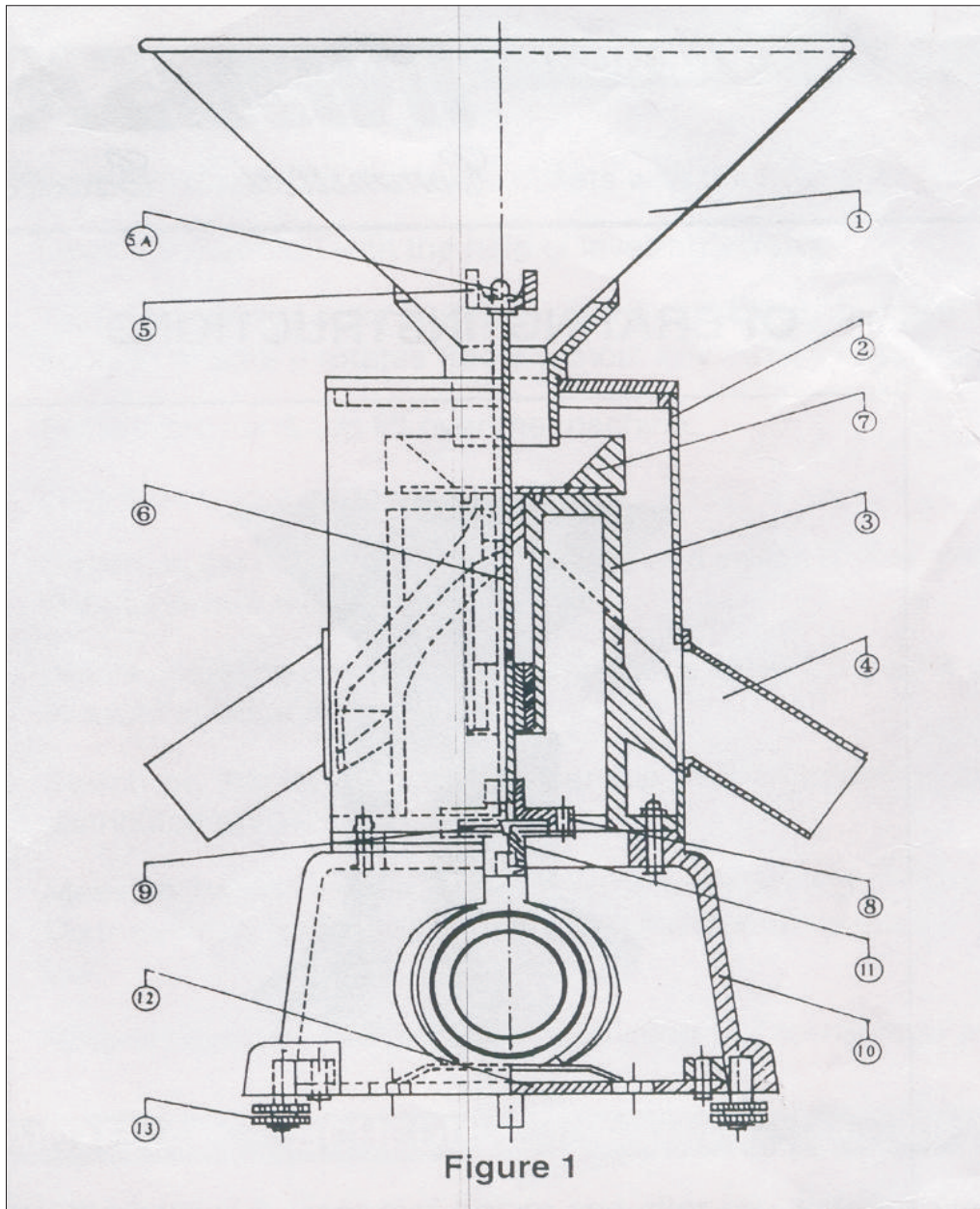


Manufacturer :

OSAW INDUSTRIAL PRODUCTS PVT. LTD.



**An ISO 9001 :2008
Certified Company**



NOMENCLATURE:

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| 1. Feed hopper (Brass) with cone & plate (Steel) | 7. Rubber Disk |
| 2. outer casing (Steel) | 8. Stopper |
| 3. Grain/Seed reflector (S.S.) | 9. Aluminium cap with spring |
| 4. Discharge outlet (Brass) | 10. Stainless Steel base |
| 5. Rubber Stirrer | 11. Stopper (M.S.) |
| 5.1. Steel Nut (2 BA) | 12. Motor base plate |
| 6. Spindle | 13. Leveling screw |

INTRODUCTION

INDOSAW Precision Divider is used for dividing a mixture of grain samples into two equal parts. It performs accurately on all grains, seeds, feeds and other free flowing granular material etc. This divider can also be used for slow flowing samples.

CONSTRUCTIONAL FEATURES

The grain divider has mainly three parts.

1. HOPPER & TOP LIFT

Hopper is made of copper & is nickle plated, cap acity is 2000 gms (based on wheat). It is designed in such a way that the walls do not create any resistance in motion of grains. The hopper top lift is made detachable for access to interior parts for cleaning and adjustments.

2. DISCHARGE OUTLETS & OUTER BODY

Outer body has cylindrical shape and is made of stainless steel which does not allow the samples to stick on the inner surface. Discharge outlets are detachable type & made of brass. Inside the cylindrical body is a motor with neoprene disc. The disc is mounted on the shaft of the motor under hopper. The motor used in the divider is of single phase, 80 watt, 8000 rpm, AC supply.

3. BASE

It is heavy & wide, made of cast iron structure which gives no chance of tilting & displacement during operation. The base is provided with 4 No. levelling screws for proper levelling & setting of the divide. On-Off switch is provided for motor on the top side of the base for operating the divider

PRINCIPLE OF OPERATION

When grain sample falls from the hopper over the neoprene disc revolving at a speed of 8000 rpm, these grains are thrown away by the disc due to centrifugal force towards finished inner walls of the cylindrical body which allows the grains to fall in the spout. Samples are thus divided into two equal parts.

PROCEDURE FOR INSTALLATION & OPERATION

1. Fix the undetachable discharge outlets with the help of screws.
2. Level the machine with the help of levelling screws.
3. Take out the hopper & top lift from divider and rotate the disc with so as to ensure it rotates freely without any noise or resistance.
4. Put the hopper & top lift over the machine.
5. Give supply to the motor
6. Switch on the machine for few seconds and switch it off immediately check the free motion of the motor.
7. Before operating on sample, place two pans below the discharge outlets to avoid spillage of samples.
8. Switch on the motor and pour sample in the hopper to get evenly distributed sample.
9. Measure the total samples if there is difference in weight of two samples. Do the setting from levelling screws till the difference comes nil or very low.
10. Repeat the same procedure while shifting it to some other place.

MAINTENANCE SCHEDULE

Clean the hopper & inner disc before and after used with soft cloth or brush.