

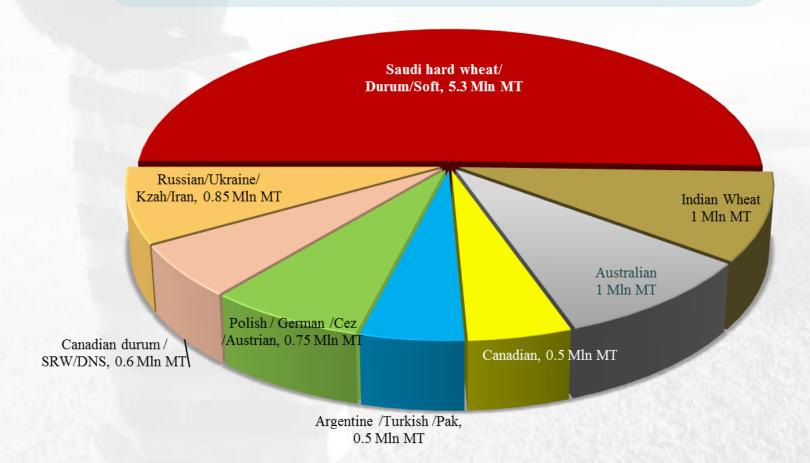
# SMART MILLING-MILLER'S PRISMATIC VIEW

**Matloob Ahmed** 





Prismatic view of a seasoned Flour Milling Engineer with over 17 years of hand on experience in operating world Biggest Buhler Plant Jeddah, KSA and 10.5 MLN MT experience for innovation & improvisation of the milling industry.





#### **SHARP**

Removal of Dockage

Gristing of wheat

Shift the flow sheet

Creation of product

Utilization of plant

Solution Diagnosis of problem

Solution to the problem





#### **MECHANICAL FACTORS**

- Rinsing air
- Pneumatic
- S Air locks
- Compressed air
- Lubrication
- Vibrations
- **S** Bearings
- Rolls Shaft drives

**Yield** 







#### **ART OF MILLING**

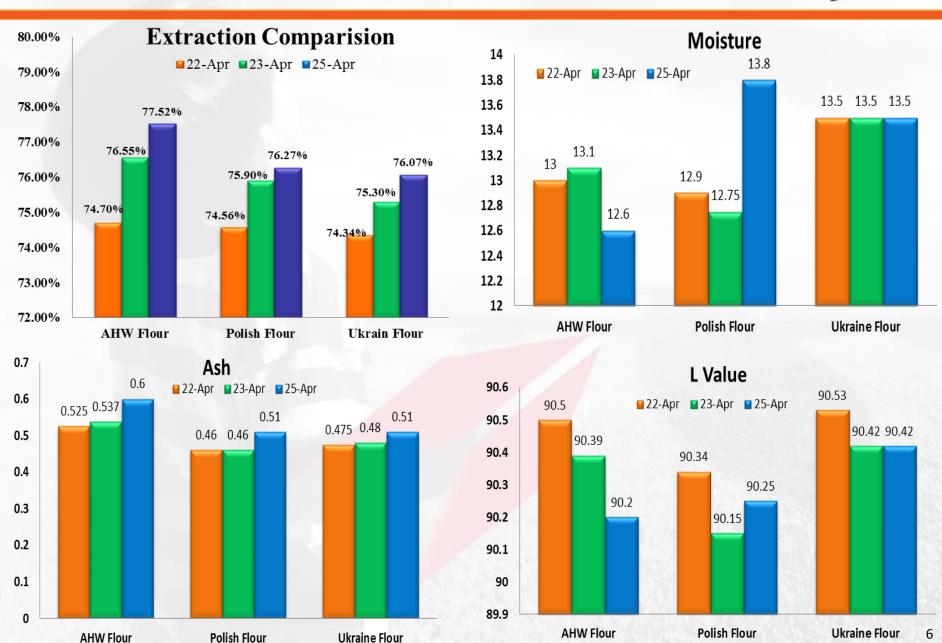
Milling is a science but execution of milling operation is an ART.



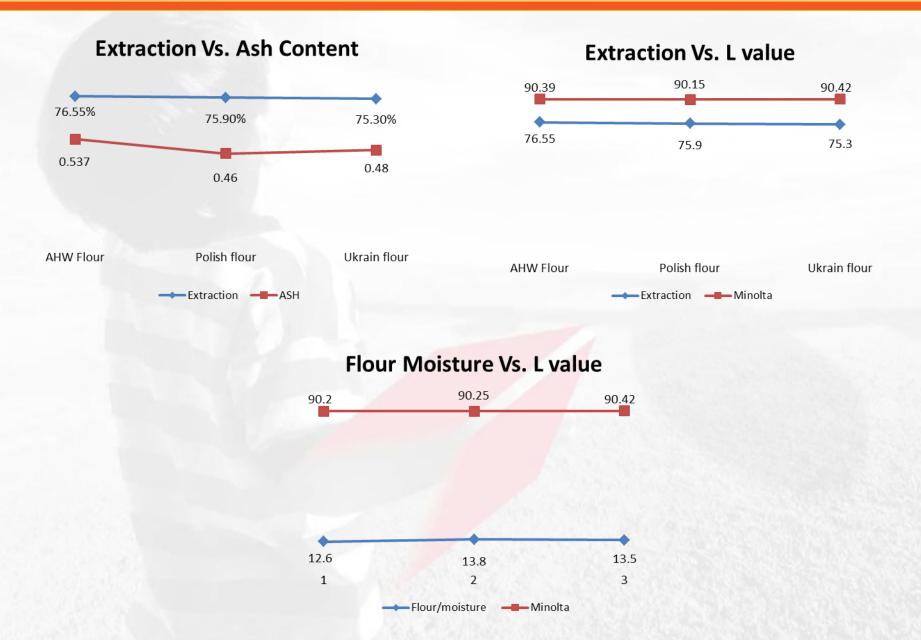
- Moisture
- **Extraction**
- Through put
- Breakdowns
- Flexibility of plant













#### Resources

Optimization of resources intelligently.







#### **Technique**

Power of Drives

Capacity

Resulting

Flutes Profile

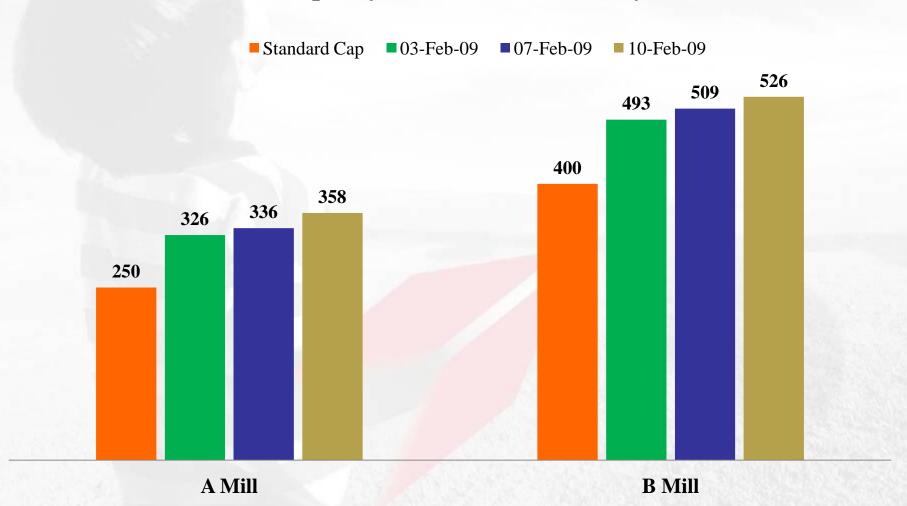
Rolls Diameters

Terminal Velocity

**Enhanced** 



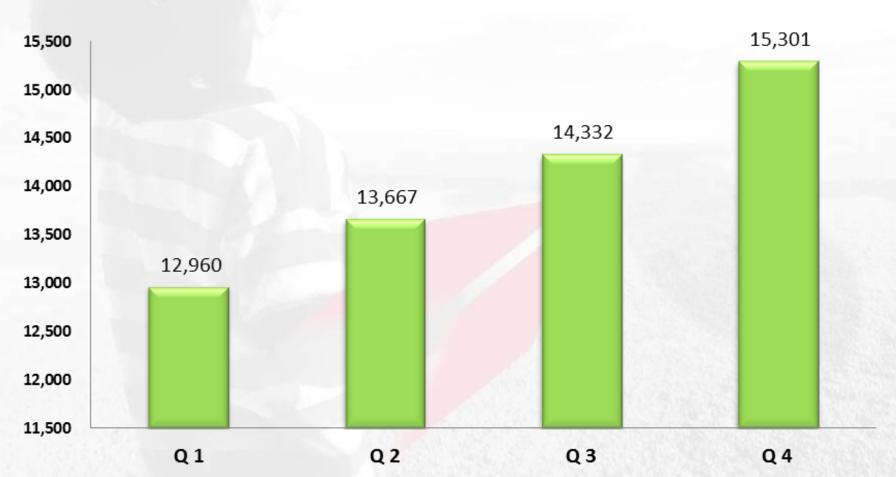




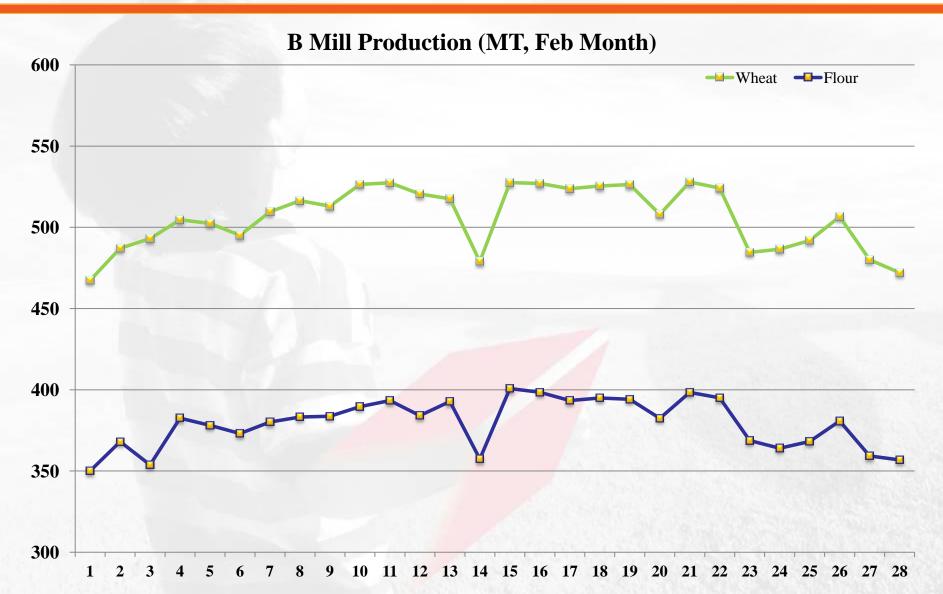


#### **Technique**

#### 400 TPD Mill transformed in to 500 TPD





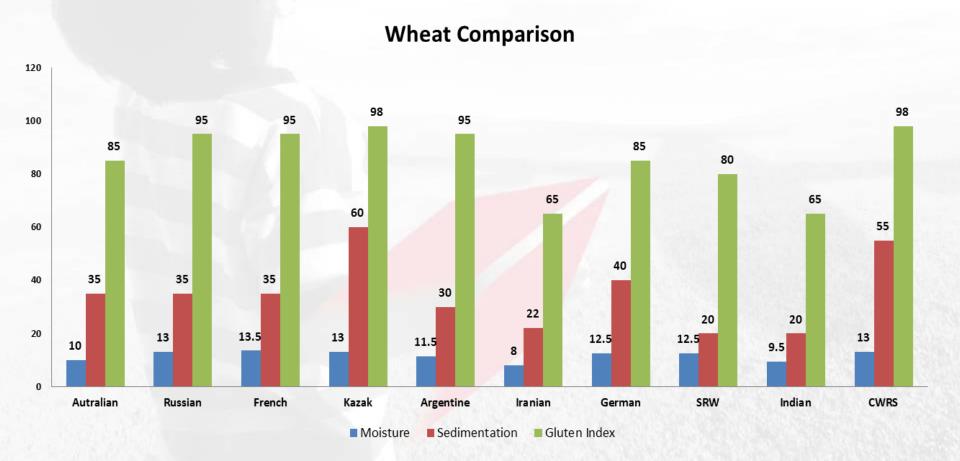


#### **MILLING Concept**



#### Wheat:

1. Selection of right type of wheat at the right time.



#### **MILLING Concept**



- 2. Smart miller focus on:
  - a. Initial moisture of wheat
  - b. Test weight
  - c. Dockage percentage

All three factor makes a commercial value:

- a. Lower the initial moisture- Higher the Milling gain
- b. Increase in test weight Higher the extraction
- c. Higher the Dockage-Lower the capacity.

Manpower - Enriching Manpower in techniques

Mechanism - Invest in technology & automation.



### **Thank You**