

Wet Processing Introduction

What does the equipment do?

In simple terms

Perform size separation

It may be called different things

Scalping /degritting

Removing coarse fraction

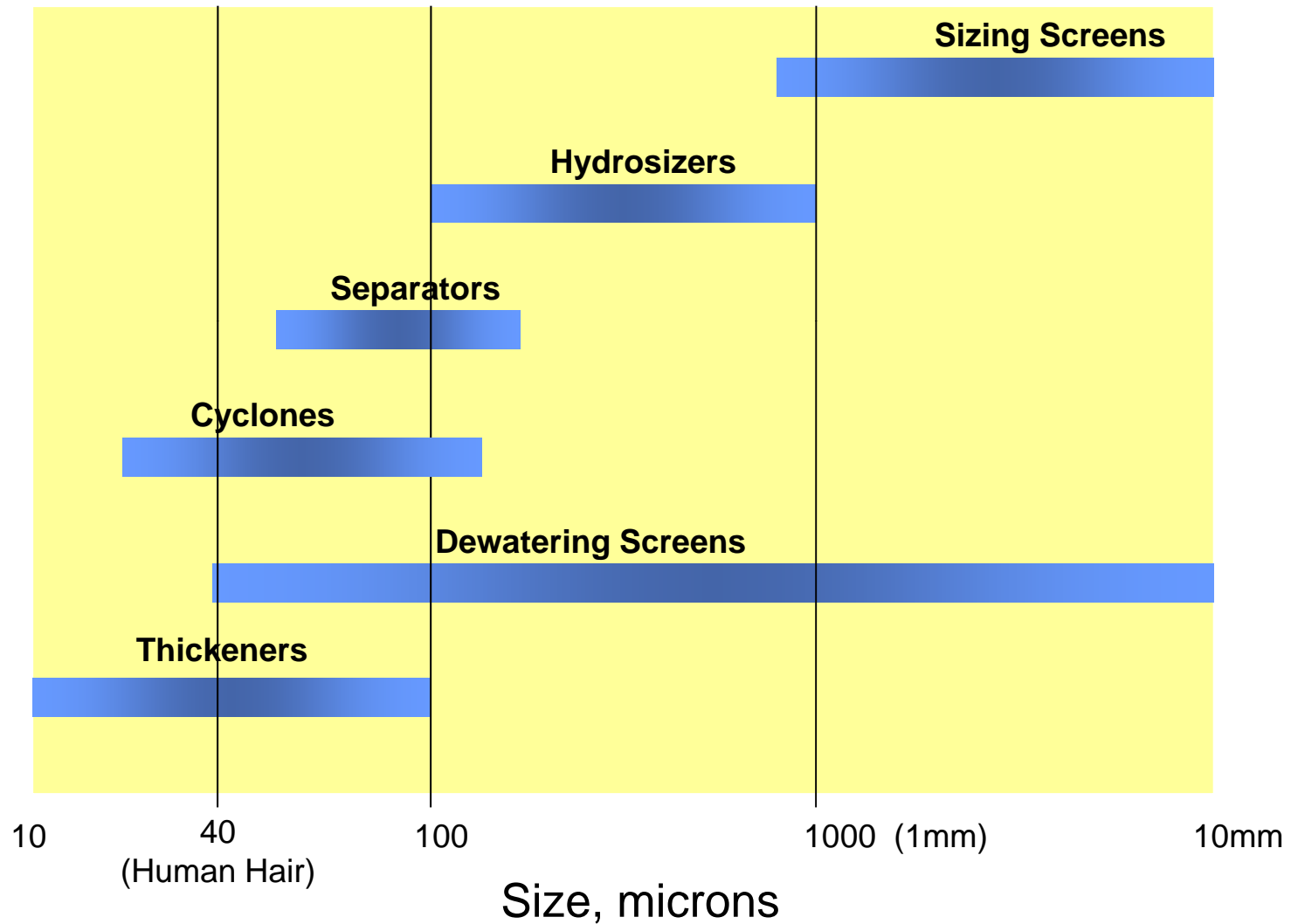
Washing / Desliming

Removing fine fraction

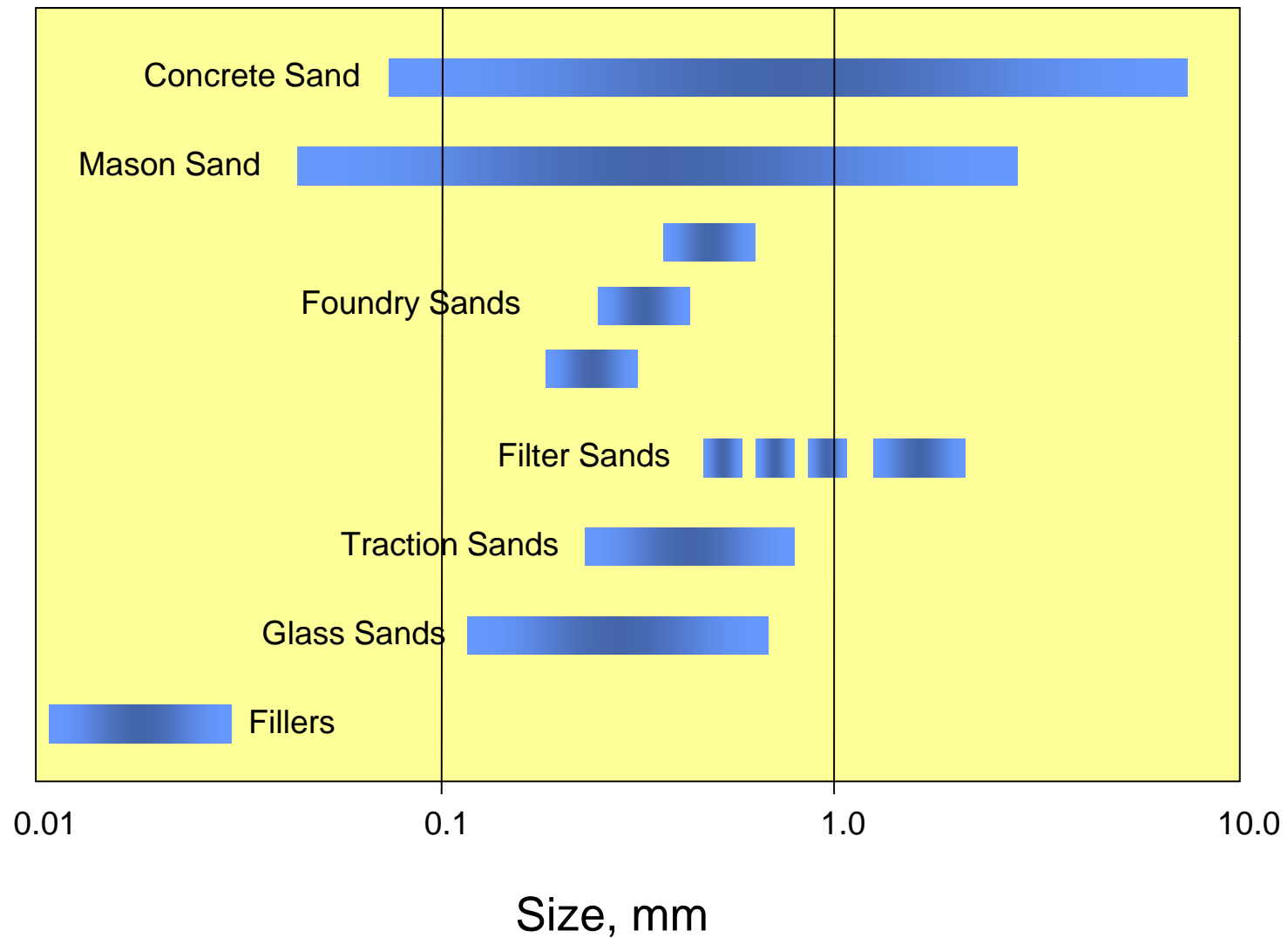
Dewatering

Removing **very fine fraction**

Application Ranges for McL Equipment

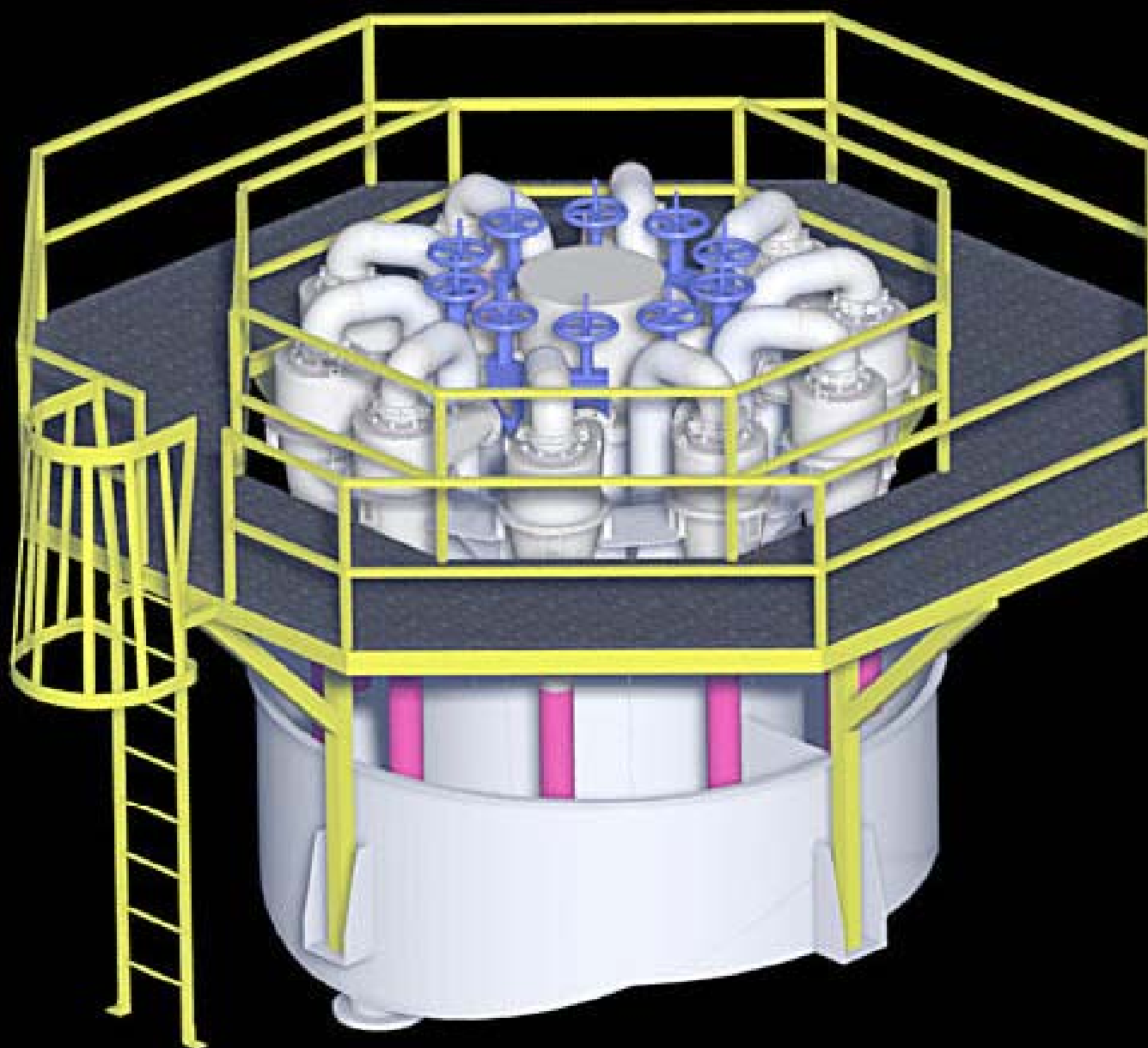


A Sampling of Sand Specifications



Cyclones and Separators®





Dewatering Screens



Thickener/Clarifier



Classifiers



Modular Plant



Modular Plant



Combination Plant



Combination Plant



Combination Plant



Combination Plant



Combination Plant



Wet Processing vs Dry Processing

- **Can underfeed some equipment**
- **Addition of water adds another dimension**
- **Must always consider solids/water mix**

Some equipment is sized based mainly on water flowrate:

- **Pumps**
- **Cyclones**
- **Thickeners**

Some equipment is sized based mainly on solids flowrate:

- **Dewatering Screens**
- **Hydrosizer Classifiers**

Wet Processing

Most equipment has max/min range of % solids in feed

- **Cyclones – max 35%**
- **Dewatering Screens – min 35%**
- **Hydrosizer Classifiers – 50-65%**
- **Thickeners – max 10%**