Westfalia Separator Australia Pty. Ltd.

Centrifuge Options In Wineries

Winery Engineers Association Conference 2007

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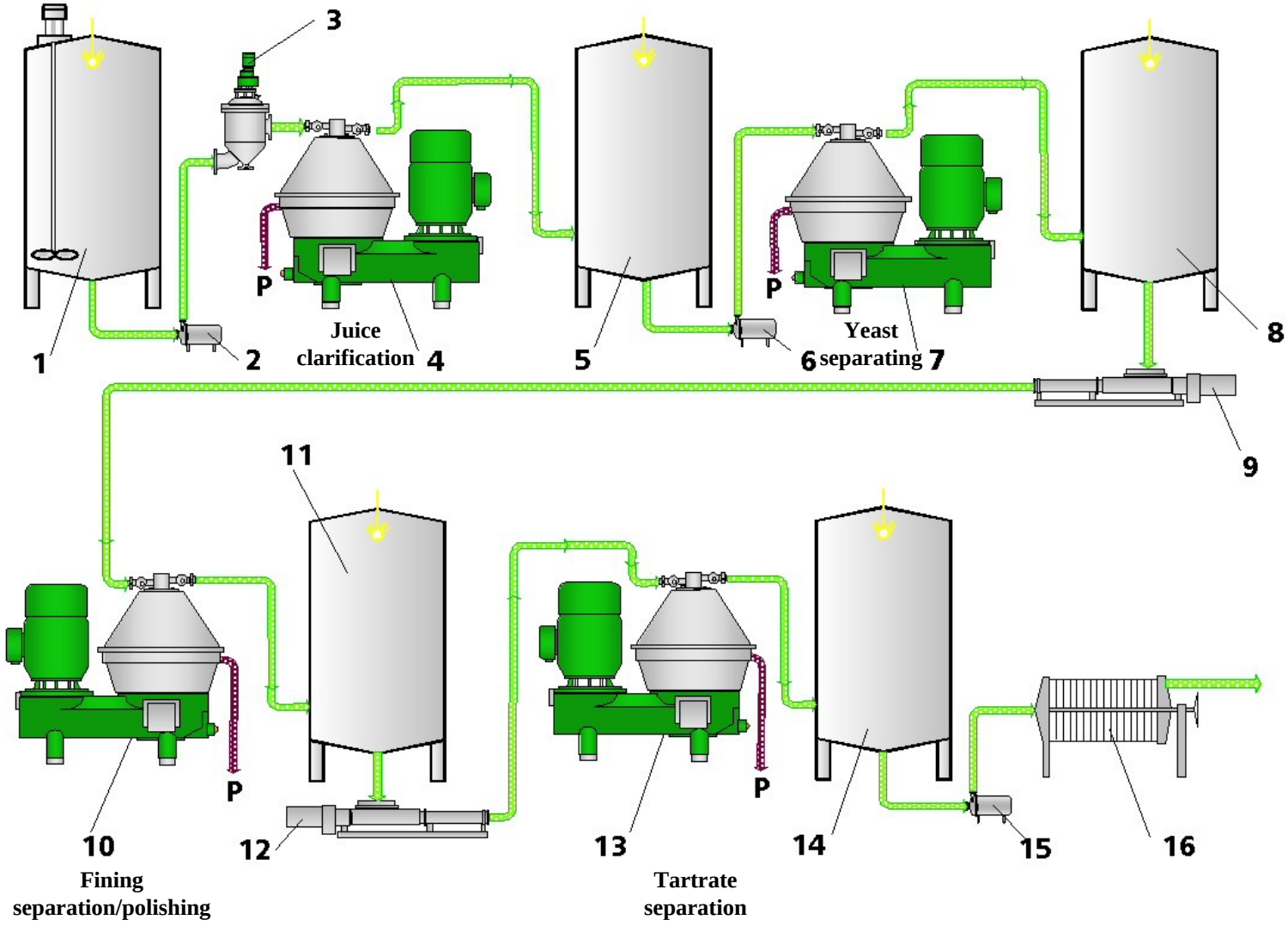
2. Super Clarifiers

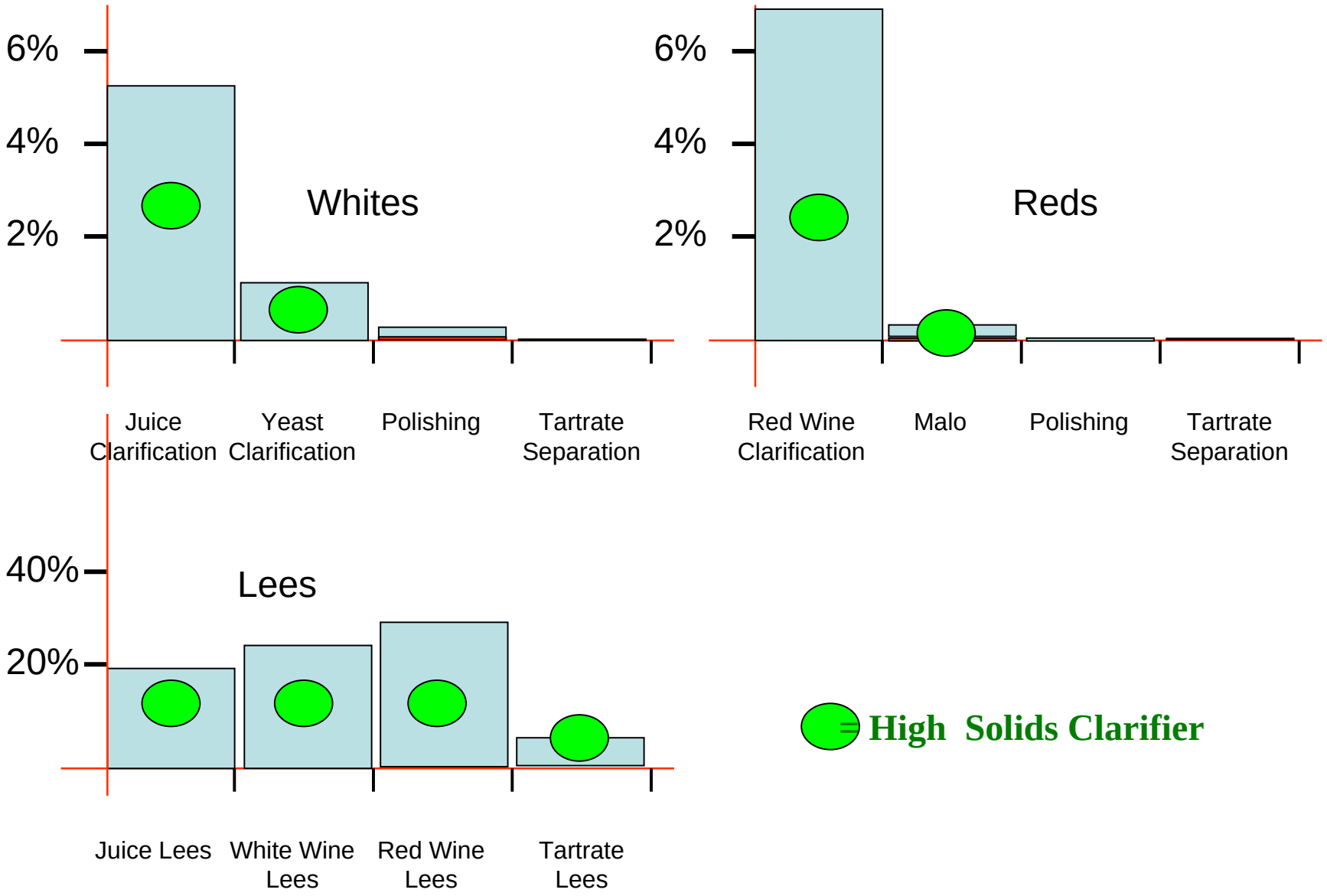
Multi –Functional Centrifuge

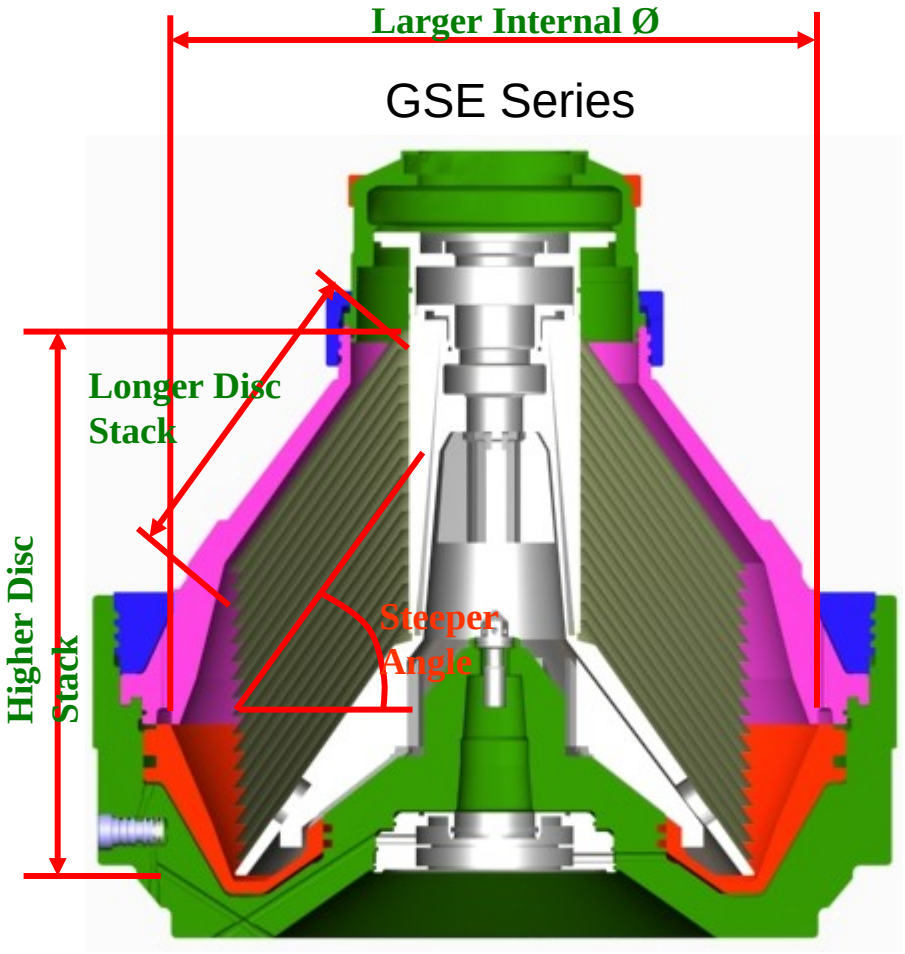


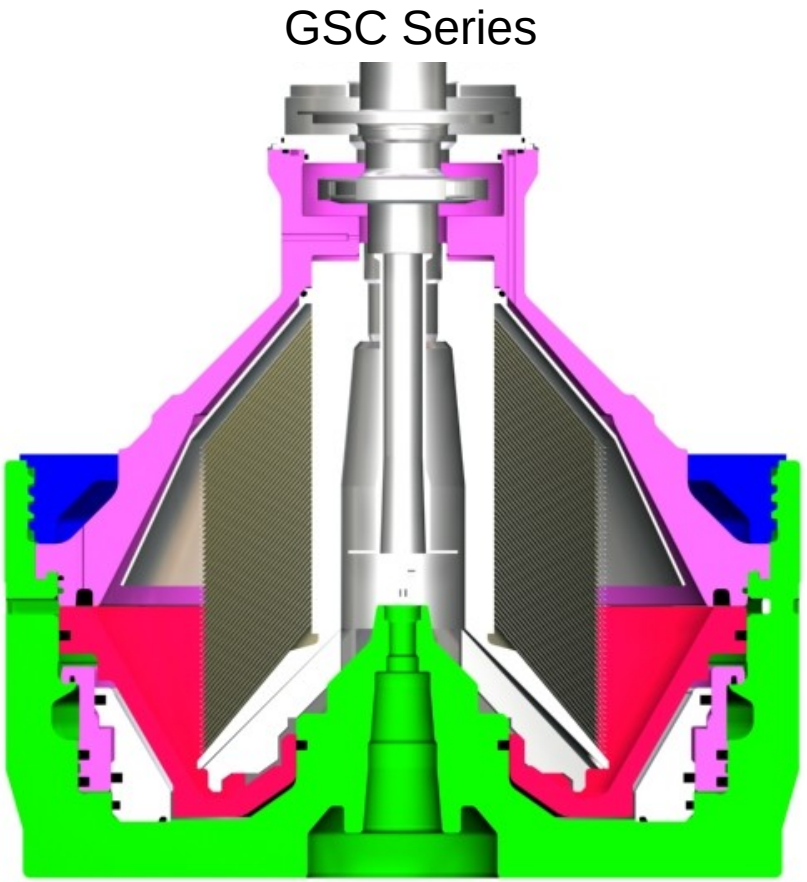
Two Types of Centrifuges Exist for Normal Winery Processing

- High Solids GSC Series Centrifuge
- High Volume GSE Series Centrifuge

Centrifuge Options







The GSE Series has approx. 2 – 2.5 times the clarification area of a similar sized GSC Series

Yields	% Feed Solids	High Solids Centrifuge		High Volume Centrifuge
Juice Clarification	4 – 6%	>99.5%		>97.3%
Yeast Clarification	1 – 2%	>99.5%		>97.3%
Polishing	100-200 NTU	>99.86%	Average Yield Difference 1.4%	>99.85%
Tartrate Separation	100 – 200 NTU	>99.86%		>99.85%
Red Wine Clarification	6 – 8%	>99.80%		>97.60%
Malo	0.25 - 0.5%	>99.70%		>99.70%
Polishing	100 – 200 NTU	>99.70%		>99.70%
Tartrate Separation	100 – 200 NTU	>99.86%		>99.86%
Juice Lees	10 – 20%	>99.80%		>97.60%
White Wine Lees	15 – 25%	>99.90%		>97.60%
Red Wine Lees	15 - 30%	>99.90%		>97.60%
Tartrate Lees	5 – 10%	>99.80%		>97.60%
Bentonite Lees	20 – 25%	>99.80%		>97.10%

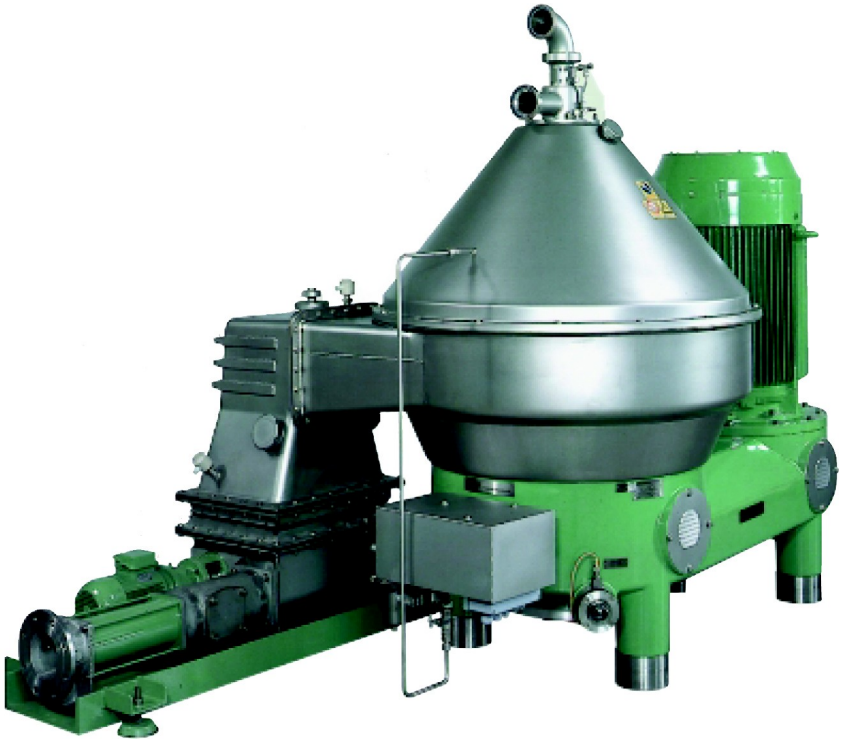
Model Types

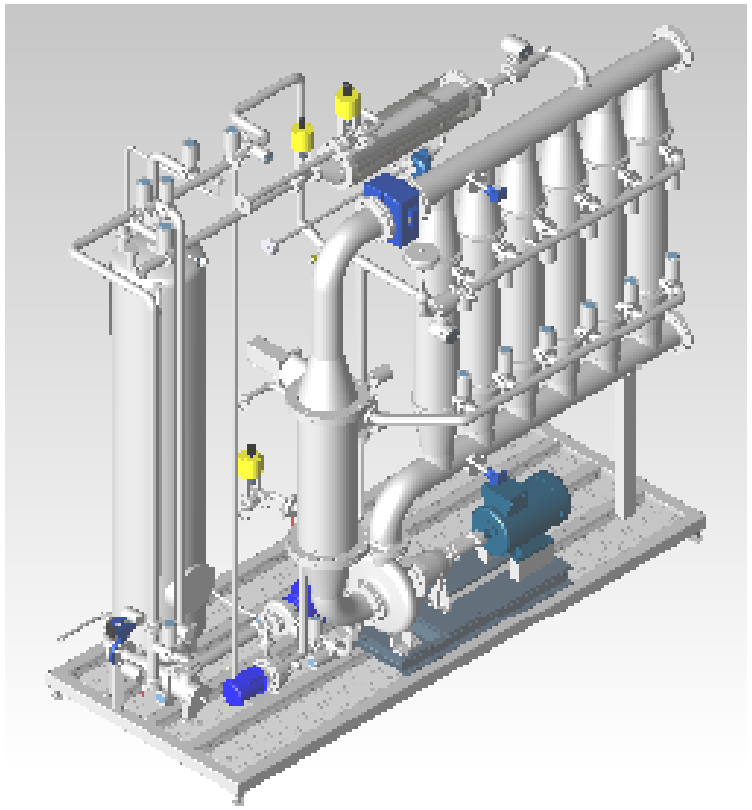
GSC Series	GSE Series	Bowl Dia
GSC 15	GSE 30	Ø260
GSC 25	GSE 65	Ø300
GSC 45	GSE 75	Ø440
GSC 95	GSE 135	Ø660
GSC 150	GSE 200	Ø780
GSC 200	GSE 300	Ø810
	GSE 450	Ø1,000
	GSE 550	Ø1,000

Unless a winery has a specific need for a dedicated machine for polishing it is Westfalia's recommendation to choose the multifunctional GSC Series Centrifuge

2. Super Clarifiers

Super Clarifiers Before Membrane Systems





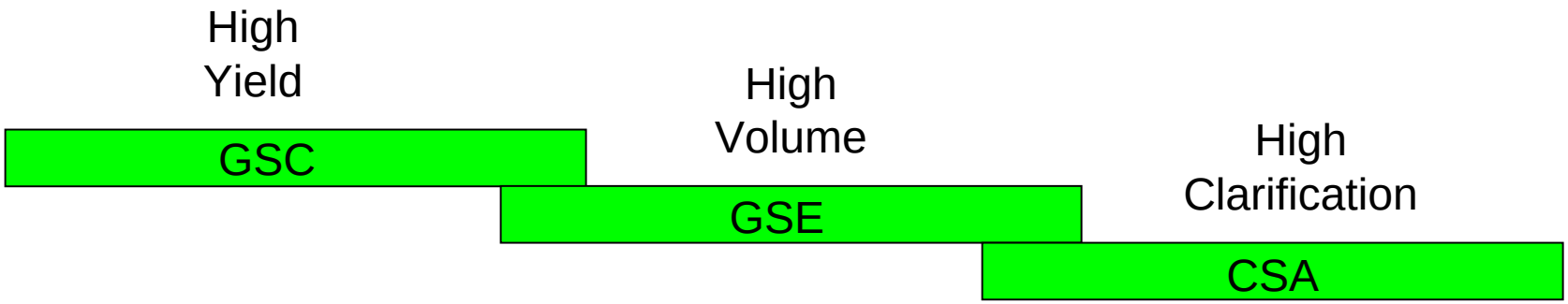
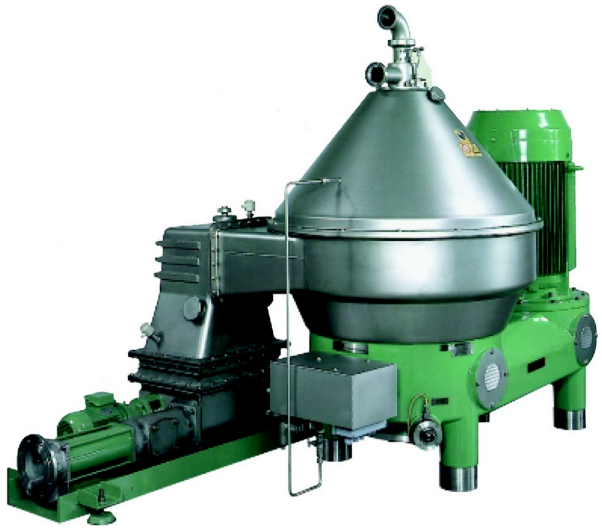
Models Available: CSA 160, CSA 500

Advantages

- High g-forces
- Super clarification
- Remove particles >0.5 – 1 micron

Disadvantages

- Small solids holding space
- Because of the high g-forces these machines can not take product with bentonite
- Tartrates can cause serious wear
- Because the solids holding space is small the machine has to eject more often
- High losses through sloppy discharges
- Relative low capacities to achieve clarity


High
Yield
GSC
High
Volume
GSE
High
Clarification
CSA

Thank you for your attention: