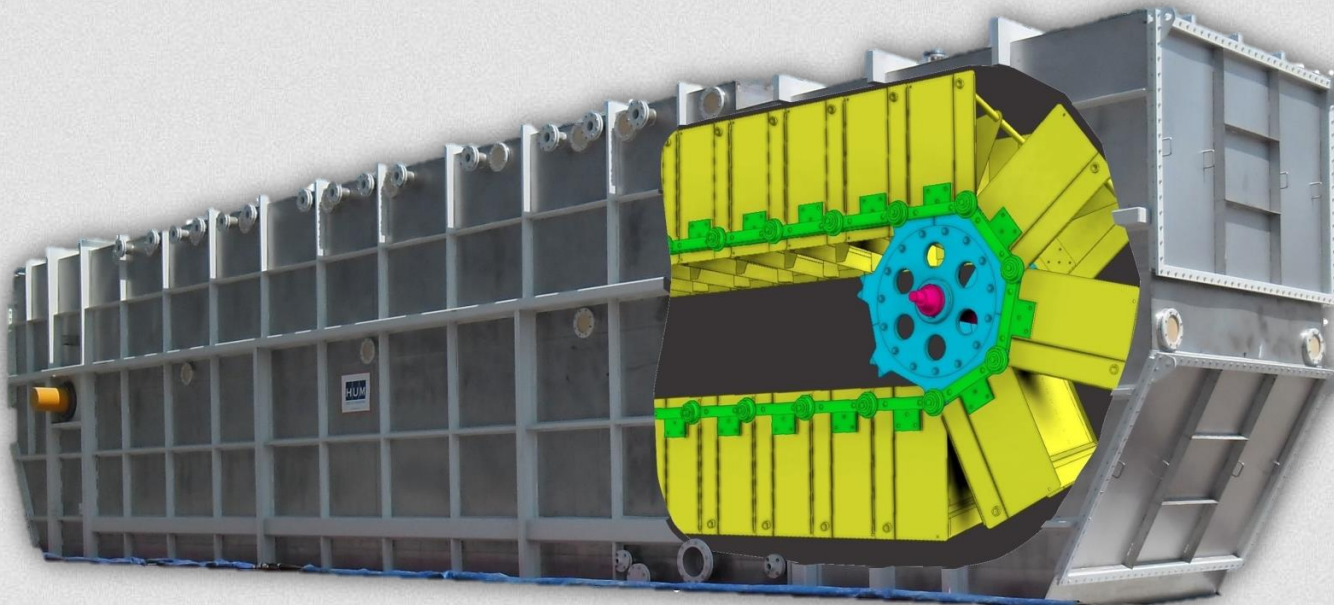
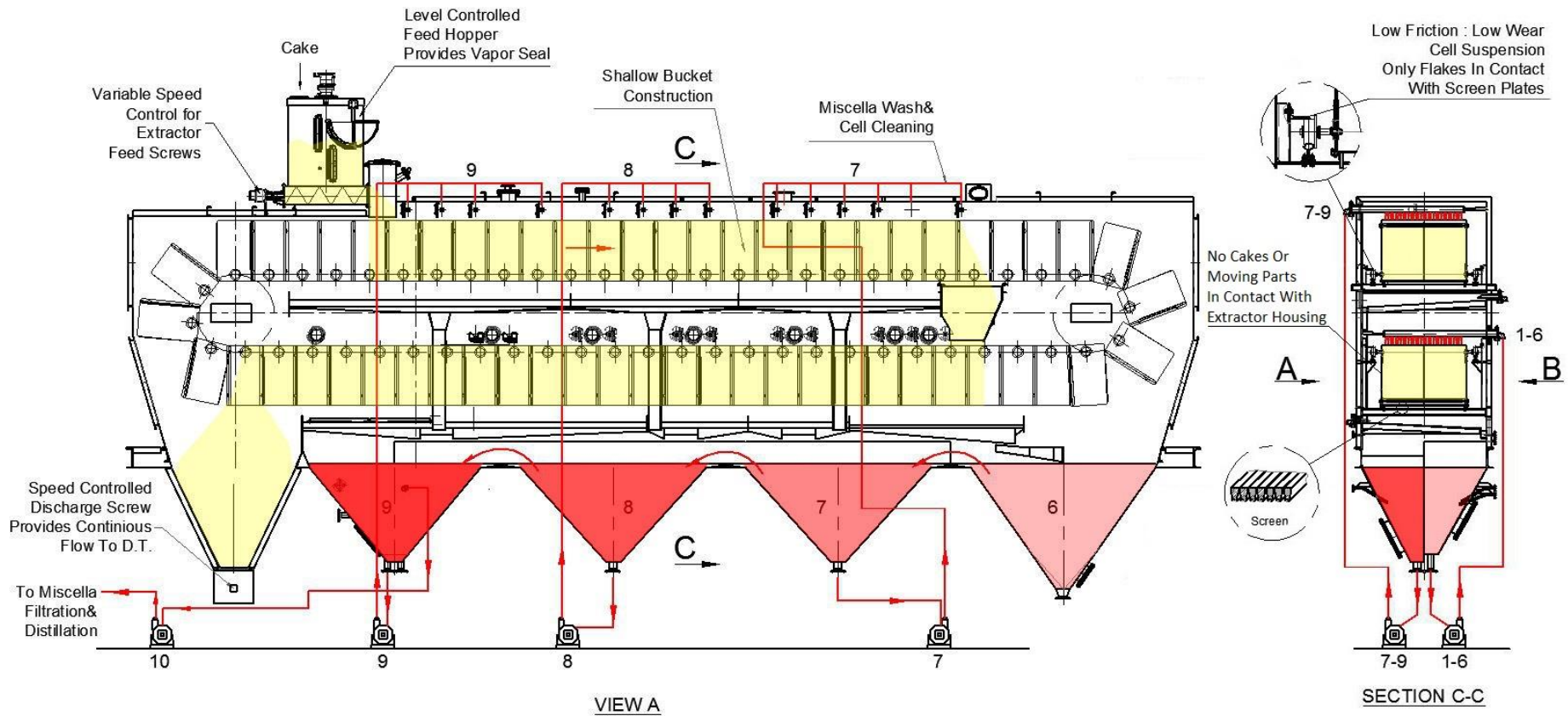




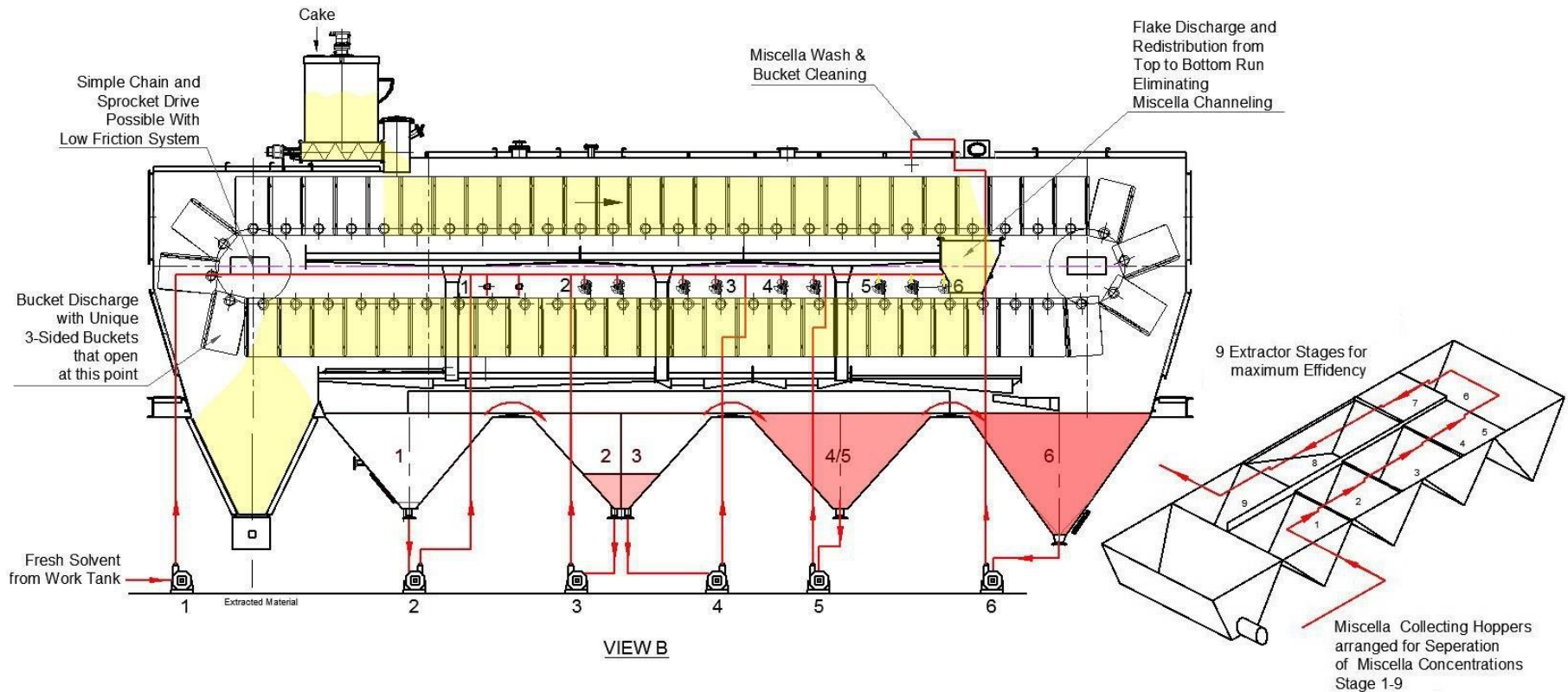
Advantages 'Sliding Bucket Solvent Extractor'



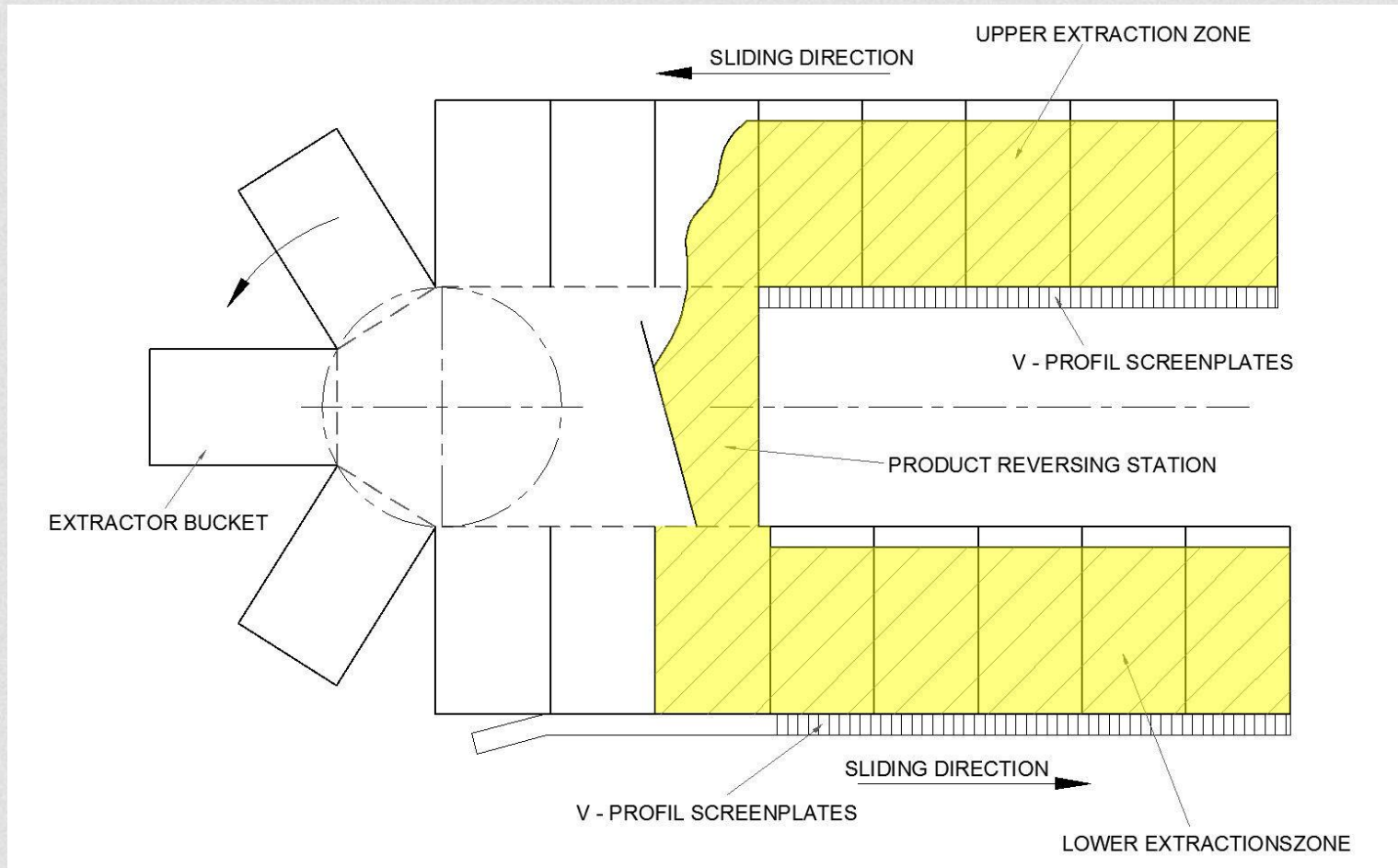
Principle Sketch



Principle Sketch

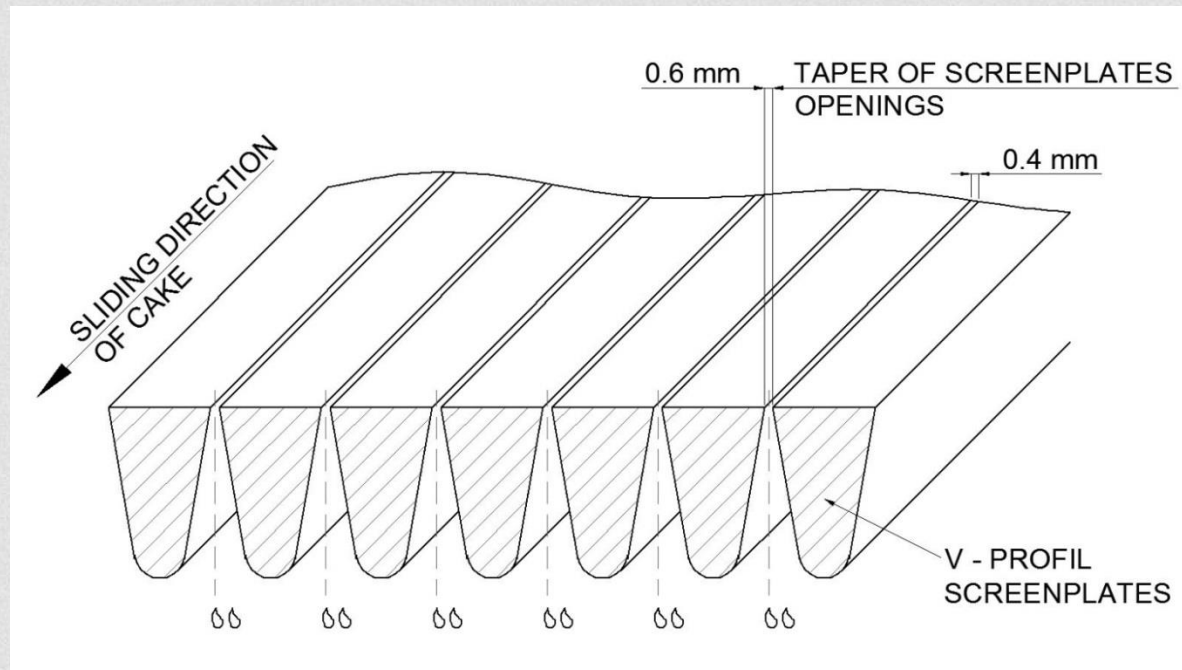


Reversing Stage for Loosening of the Material



Self-Cleaning Screen Plates

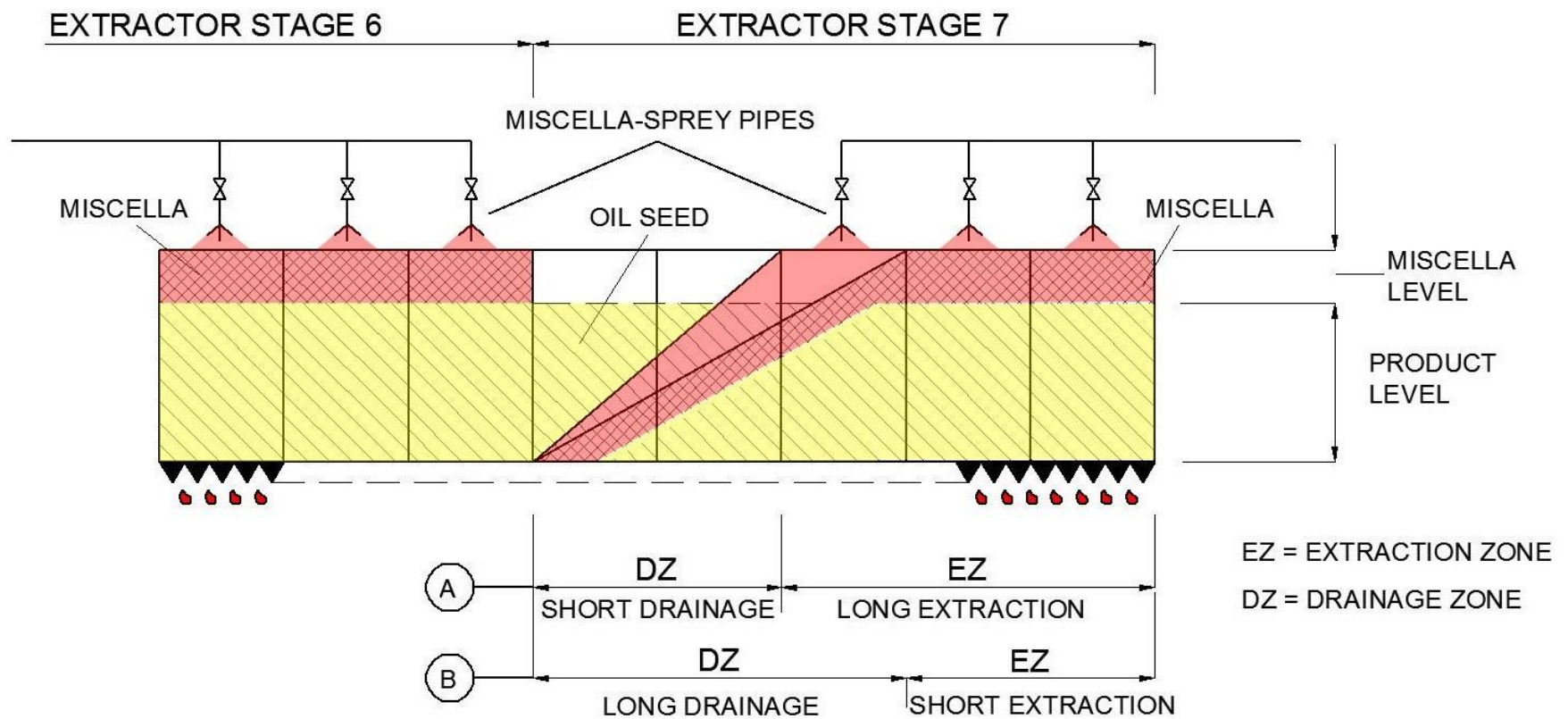
The screen plates are made of sturdy V-Profiled screen wires with a large wedge type opening at the bottom face and some suppliers use an additional taper of the screen opening in the conveying sliding direction; this will safely avoid any clogging of the screen plates.



The taper of the screen plate is selected as a function of the oilseed; being normally 0,4 – 0,6 mm, to avoid sticking of material at the screen plates.

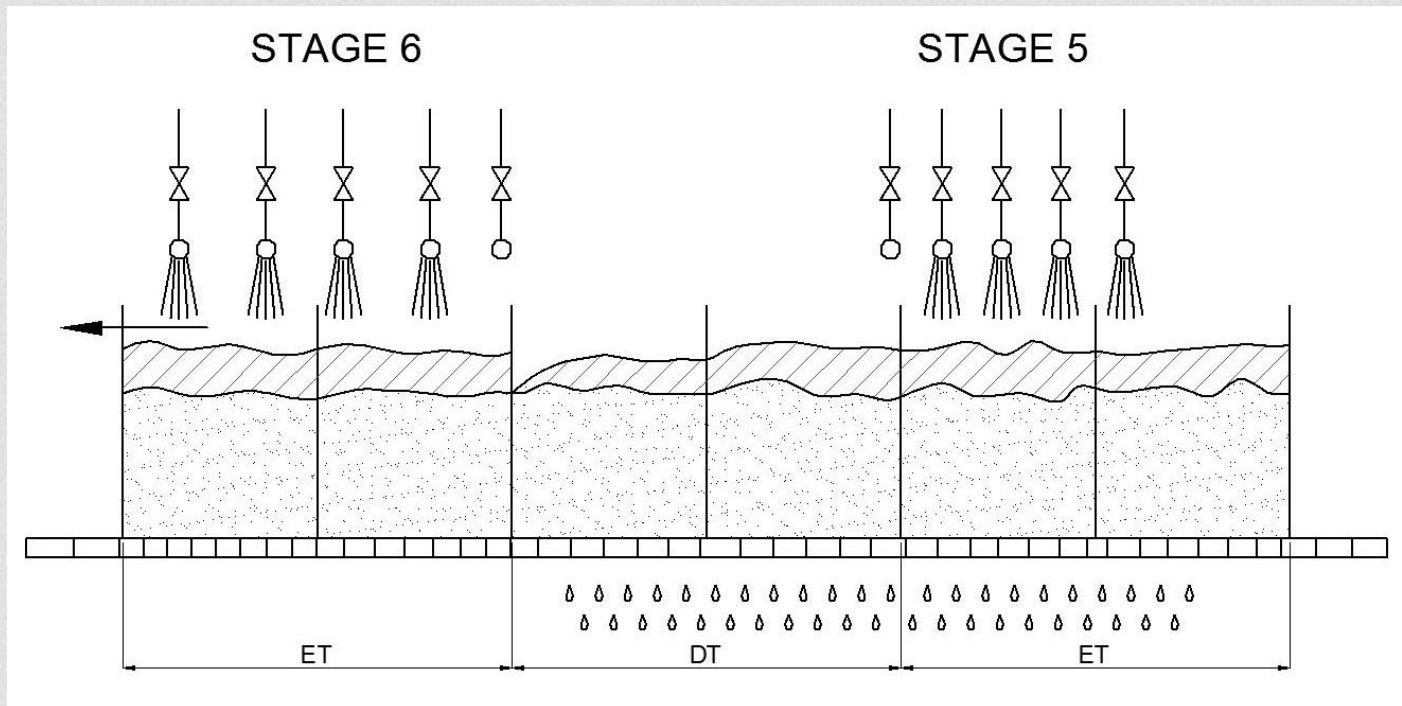
Miscella Feeding to Extractor Stages

Extraction Time / Drainage Time



Miscella Feeding to Extractor Stages

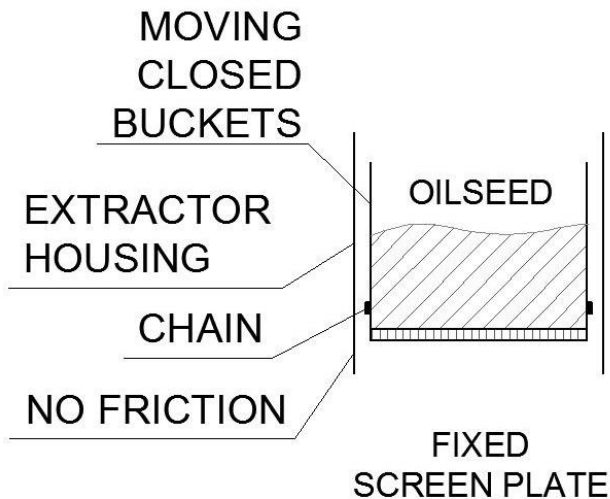
Several solvent and miscella feed tubes gives a better flexibility for the different type of oil seeds. Oilseeds or cakes with high fine content need longer dropping time than oil seeds with low fine content.



Can change extraction time (ET) and dropping time (DT) when closing some tubes resp. open tubes.

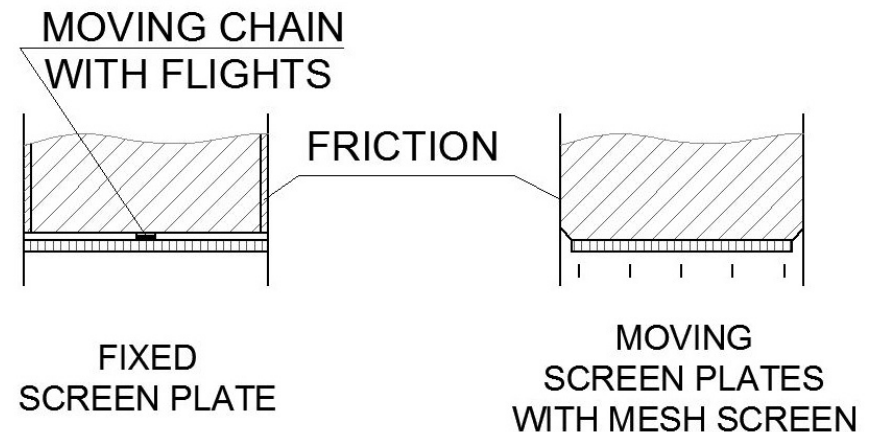
Design Advantages

HUM Extractor



This design gives no friction between extractor housing and the oilseed. Less wear and tear longer life time.

Competitors

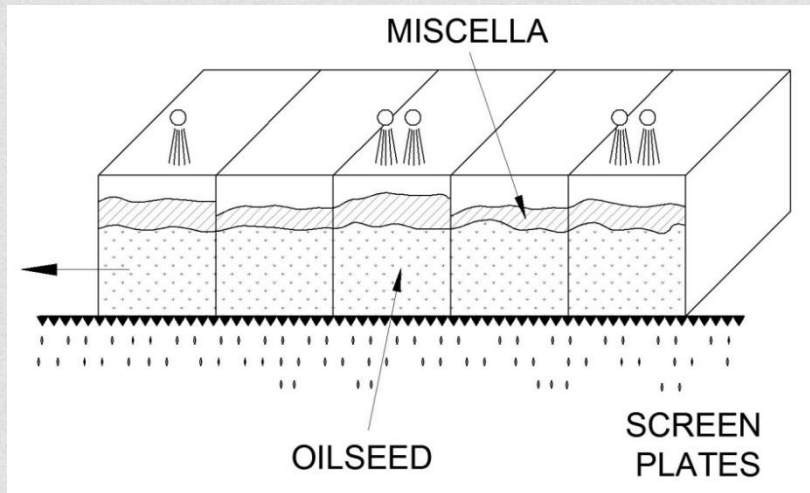


These design give friction between extractor housing and the oilseed. Much wear and tear, which cause shorter life time.

Design Advantages

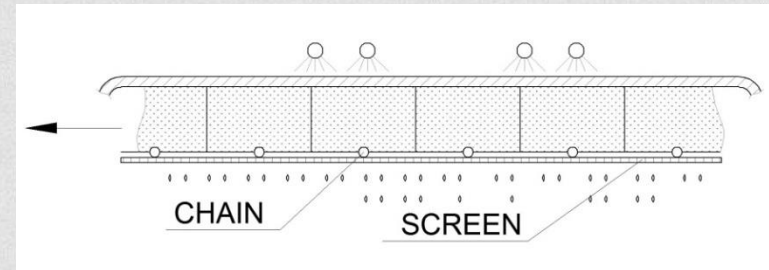
HUM Extractor

Maintenance of miscella bath is possible and better extraction efficiency.

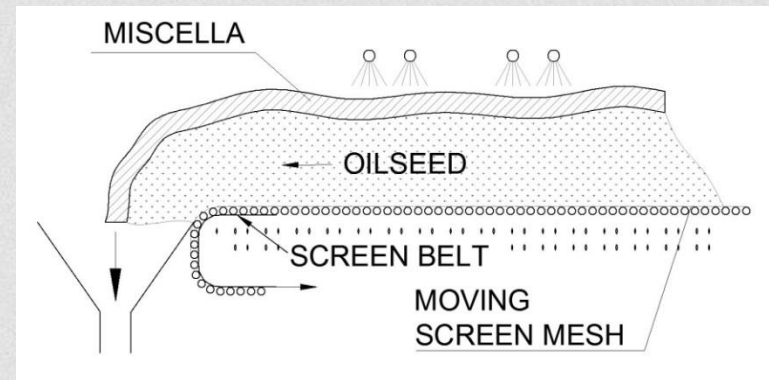


Competitors

Design A) No buckets only flight with chain.



Design B) No buckets moving screen belt.

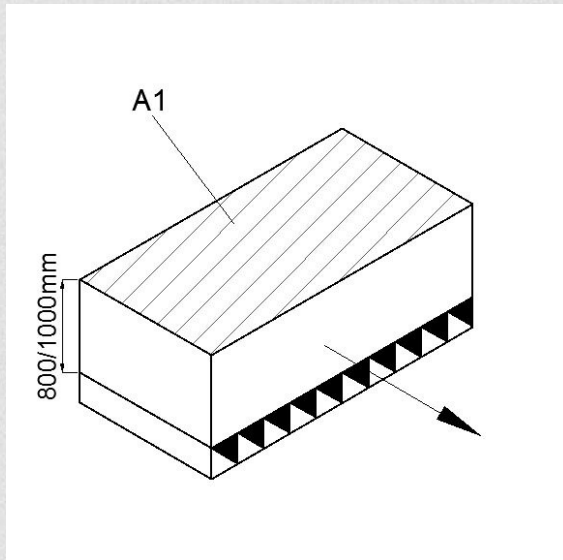


No maintenance of miscella bath; miscella can flow directly to the next stage and to the meal discharge. Less extraction efficiency and dangerous of overcarrying to much solvent to the toaster.

Design Advantages

HUM Extractor

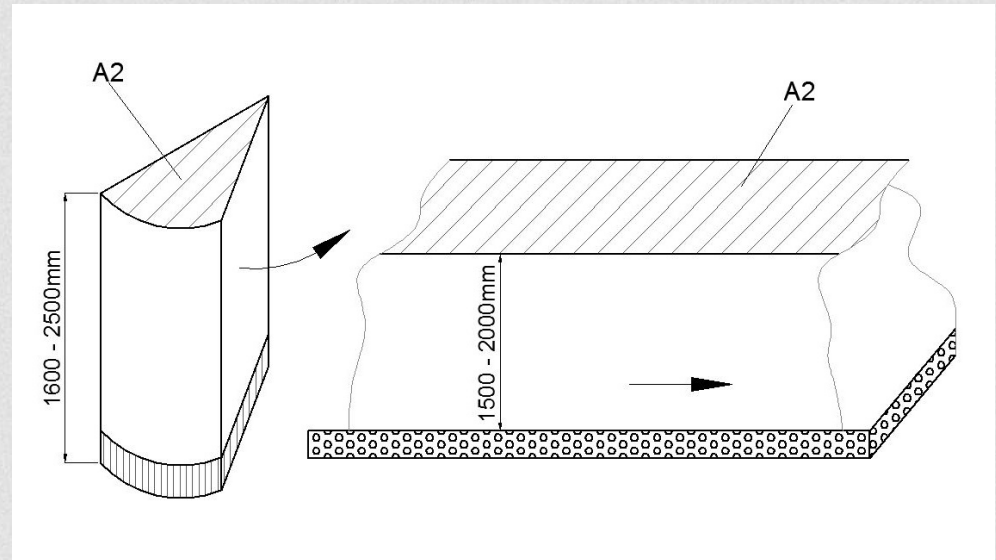
LOW MATERIAL BED



LARGE
EXTRACTION SURFACE

Competitors

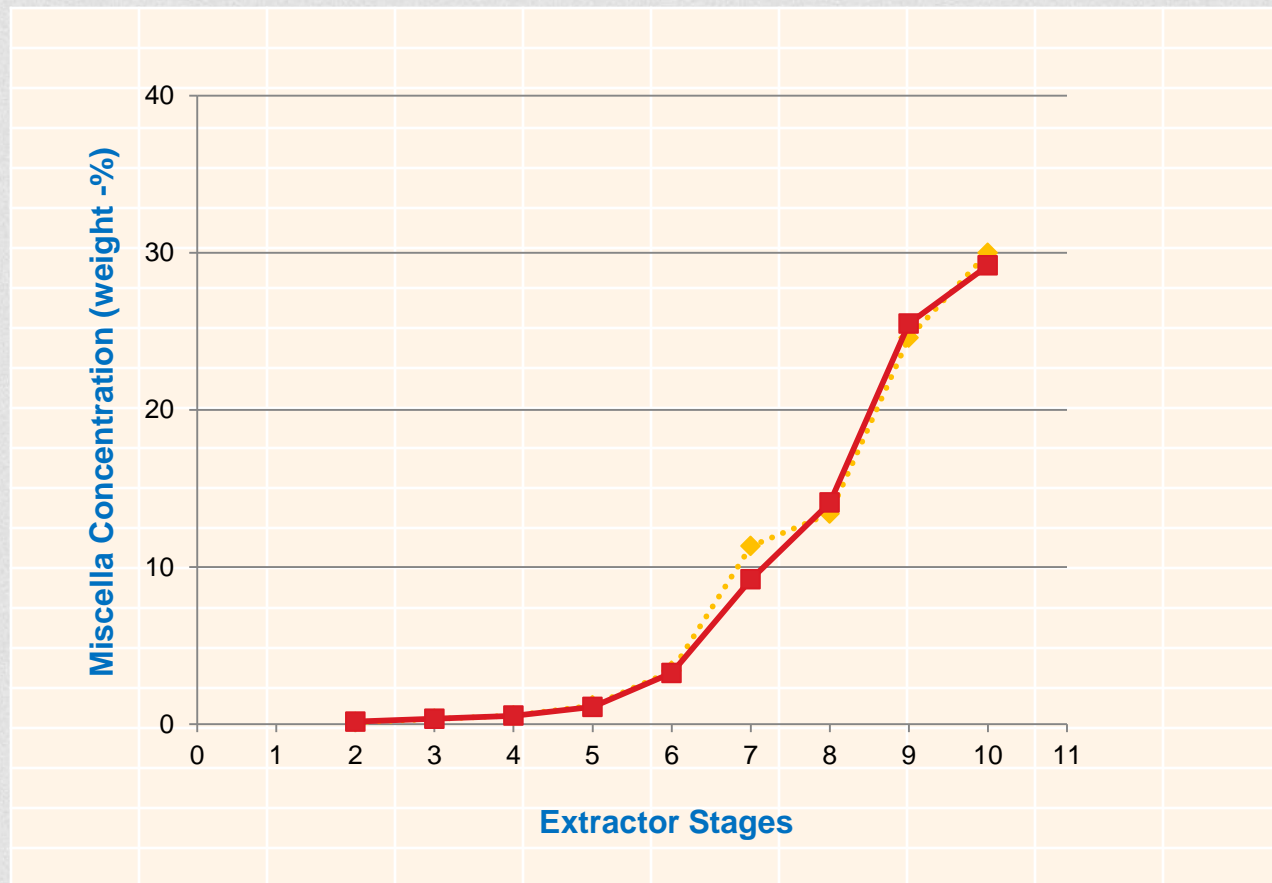
HIGH MATERIAL BED



$$A1 = 2 \times A2$$

Extraction area is 2-times bigger in case of
low material bed.

Miscella Concentration in Extractor Stages



Stage	1	2	3	Average
2	0,17	0,12	0,15	0,15
3	0,43	0,33	0,27	0,34
4	0,51	0,54	0,55	0,53
5	1,11	1,18	0,99	1,09
6	1,2	3,38	5,16	3,25
7	8,54	11,33	7,77	9,21
8	13,4	13,4	15,4	14,1
9	24,7	24,6	27,7	25,5
10	29,4	30	28,2	29,2

Other Advantages

- ▶ **Very easy operation and no interruptions in operation because of chain breaking**
- ▶ **Long drainage zone assures low solvent carry over to DTDC**
- ▶ **Double bed construction allows for shop assembly and easy transportation**
- ▶ **Only the bearing for main motor of extractor outside. The other bearings are inside of extractor, therefore minimum leakage**
- ▶ **Automatic miscella filter assures always clean full miscella**
- ▶ **High grade material and high manufacturing quality for DTDC**
- ▶ **There is no miscella back flow to hexan storage tanks**
- ▶ **Very efficient mineral oil absorption system quaranties very low hexan in air**
- ▶ **Fully automatic system; the operation parameters can be set or checked wherever you want**
- ▶ **PLC circuits can be changed easily via internet**

Contact

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