

I .Functions

The improved newly sunflower seeds processing line TFKH1500 can clean out all kinds of impurities in sunflower seeds (such as big and small impurities, heavy and light impurities, and empty seeds), dehull sunflower seeds, remove shells, separate and re-separate un-hulled seeds.

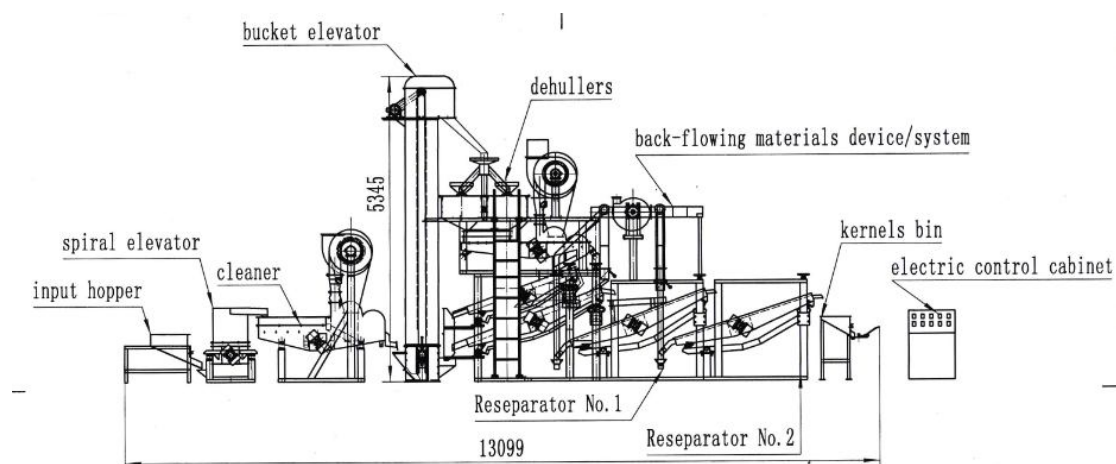
It features low-cost, low electricity consumption, compact structure, small area occupation, low damage of seeds and kernels, simple maintenance.

II . Structure and principle

1. Overall structure

The whole line is as the layout (See Fig.1), it consists:

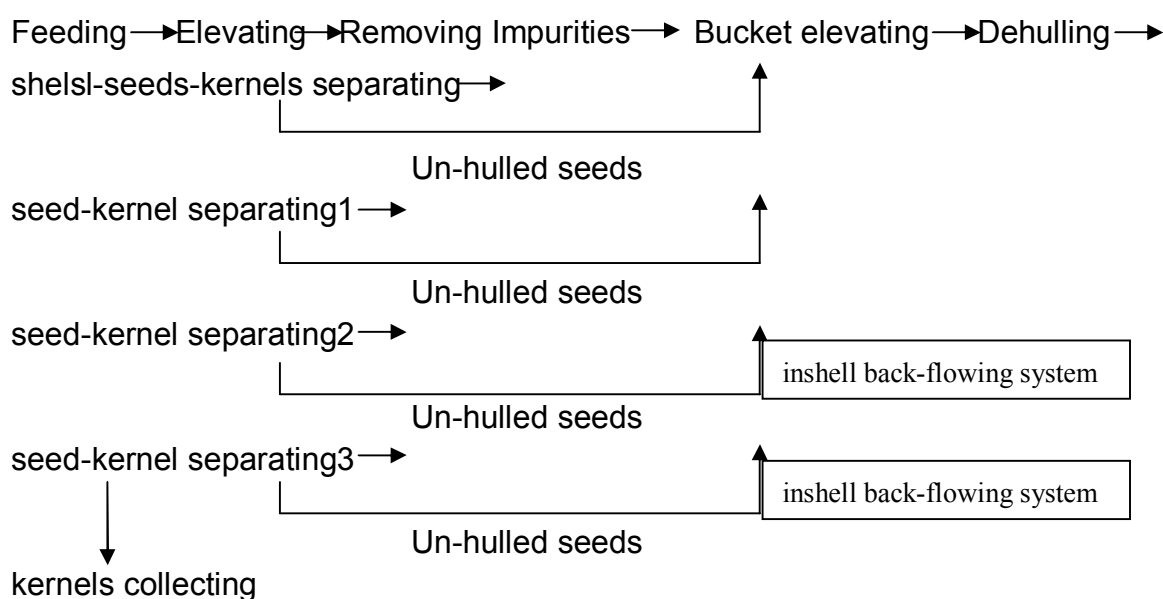
- ①Input hopper
- ②Spiral elevator
- ③Cleaner
- ④Bucket elevator
- ⑤Main part of the machine (including: dehullers 4sets, shell-seed-kernel separator, seed-kernels separator 2 sets, cyclone and air lock).
- ⑥Re-separator (2sets)
- ⑦Kernels collector
- ⑧Device for back-flowing materials 2 sets
- ⑨Electric control cabinet



2. Principle

See (Fig.1) Put sunflower seeds from input hopper①, then elevated by spiral elevator ②to the cleaner③, the small size of sunflower seeds will be sorted out, and remove big and small impurities, light and heavy impurities, dust etc., the cleaned sunflower seeds will go the bucket elevator④, then go to dehullers ⑤after dehulling, the shell, seed and kernels will go the shell-seed-kernel separator, the shells will collected by discharger. The seed and kernel will go to the shell-seed-kernel separator, and the seed and kernel will be separated, the kernels will go the re-separator No.1⑥, unhulled seeds will go back to the bucket elevator④, and elevated to the dehullers⑤, for rehulling. The materials in re-separator No.1⑥will go re-separation again, kernels will go to resparator No.2 for separation. The unhulled seeds will go back to the bucket elevator④ and elevated to the dehullers⑤, for rehulling. Mixture go to re-separator No.2 for re-separation, kernels will be sorted out to the kernels collector ⑦, and the unhulled seeds together with few kernels will go back to the d device for back-flowing materials⑧ through the device they will go to the shell-seed-kernel separator.

3.Flow diagram



(Fig. Process flowchart)

III. Technical specifications

Power	20.24kw (380v)
Input capacity	1.0-1.2mt/hour
% of whole kernels	90% minimum(broken kernel is less than 1/2 of the whole one)
% of inshell in kernels	4% maximum
Space occupied:	13.1m*2.92m*5.4m
Weight	7.3tons
Operator	2 persons

Remark: The above specs are reference results of oily sunflower seeds oversized in 3.0mm sieve and the moisture of 10~12%. Otherwise, the result will be slightly floating.

