

Small Scale Threshing Equipment

The most basic thresher is a treadle powered machine FT 370. Threshing drum turns when operator uses one foot to pedal the machine just as early sewing machines were powered. Bundle of the crop is held with grain heads over threshing drum while teeth on drum strip grain off and drop onto ground behind machine; Price about \$2,700



Dimensions	31.5" x 21.6" x 34"
Net Weight	60#
Drum	14" diameter x 14.5" width
Capacity	4 bushels / hour
Shipping	25" x 22" x 26"
Gr. Wt.	72#
Cube	8.28 cu ft.

Dimensions	27.5" x 17.3" x 40"
Net Weight	38#
Capacity	25 bushels / hour
Shipping	28" x 17" x 21"
Gr. Wt.	42# carton
Cube	5.8 cu ft.

The grain mixed with hulls and bits of straw is then picked up and winnowed to get clean grain. The winnowing can be done with a hand cranked machine or a motorized version. Price about \$1,200—\$1,600 Fob Portland, Oregon.



A higher capacity and more versatile bundle thresher is the Cicoria Plot 375 that threshes and cleans grain and other seeds. Plexiglas door permits you to observe action and allows a quick clean out between crops threshed. Can be engine powered or by electric motor. Price \$15,000 delivered from Italy to your nearest port.



If you need more production for threshing rice, wheat, and similar cereals as well as small beans then the motorized Trexia unit is for you. Either with its own gas or diesel engine or in a PTO driven version it can put out over a 1,000 lbs. per hour. It is sold in Africa, North Africa and Middle East to cooperatives for entire villages to use. It is

simple and well made and quite compact. It includes a separate seed cleaner attachment. Price about \$12,500 for PTO version, delivered from Italy to your nearest port.

A still higher capacity model is mounted on a trailer and requires 35 HP PTO



input. About 10 ft. long and just under 5 ft. wide and weighing 770 lbs. it is well suited to small farms. Supplied with a variety of sieves it threshes cereal grains as well as garbanzos, lentils and broad beans. It is made in Turkey and costs about \$15,000 delivered to your closest port.

The top of the line pull type thresher is Cicorias ATX 2000L.

This machine uses an axial flow threshing cylinder. This system keeps crop in contact with threshing cylinder and concaves as crop spirals along, this



Mod. ATX 2000 L

longer contact recovers more of the product. This system allows thresher to handle virtually any dry seed crop including very small seeds like clover and those hard to thresh. Conventional threshers have the cylinder at right angles to crop flow

through thresher. The ATX is driven by PTO shaft from the tractor pulling it. Price of the PTO versions is about \$40,000 at closest port.

The smallest combines are head threshers suitable for cereal grains only. As in the bundle threshers shown previously, by threshing only the seed heads it saves power and keeps machine simpler. The operator discards the bulk of the stalks by holding on to it until grain is off. The Mitsubishi 502 walking combine cuts grain at ground level, gathers it by its stalk and carries up to threshing cylinder. Stalks are rotated so only grain end contacts thresh-



ing drum and bulk of stalk is discarded without entering thresher. A six horsepower gas engine powers combine as it crawls on rubber tracks guided by driver walking at rear. Combine cleans grain and puts in a bag at drivers left. Price about \$25,000 Fob Portland,

Oregon.

The same combine now can be ordered with a seat so it can be driven as well as operated from behind. Price about \$28,000. Note bag filling device behind driver.

A new motorized Japanese thresher model KM 450A is powered by 3 HP gas en-



gine and handles about 400 lbs. of grain an hour, can also thresh out soybeans and similar dried beans at lower rate; rather light sheet metal construction but functional; costs about \$6,500 Fob Portland, Oregon. Lead time about 7 weeks for delivery.

One domestic manufacturer makes for research work, the "Small Bundle Thresher". It takes grain heads off

small bundles held in feed chute and threshes about a 100 lbs. of wheat per hour. A 3 HP gas engine drives it, it is simple and solid but custom made costing about \$8,900 with 90 plus days to get one delivered.

The same company makes a trailer mounted thresher powered by 9 HP engine that is capable of processing the entire plant. This unit called a "Low Profile Thresher" is designed to duplicate the threshing process



of conventional full size combines. It uses 8 rasp bar cylinder, adjustable concaves, sieves and shakers to clean grain. These are built to order and cost about \$28,000. Lead time is 90 to 120 days for delivery.