

Rice Milling Line Datasheet

Model tables for the paddy route: cleaning, destoning, husking, separation, whitening, polishing, grading and packing.



Hefei Titan Machinery Co., Ltd. has supplied grain and food processing equipment since 2010, with a market network covering more than 40 countries and regions. Scope of supply includes design, fabrication, installation supervision, commissioning and after sales service.

All figures in this document are taken from TITAN model sheets. Capacities that depend on the crop or the contamination level are stated that way rather than averaged into a single number.

Rotary Paddy Pre-cleaner

The TTLM100, 125, 160 and 200 series rotary paddy cleaning machines remove big, small and light impurities from grain in rice mills, feed plants, food factories and wheat flour mills. Rotary speed and balance weights are adjustable, which gives the sieve body three different running tracks.

Model	Capacity	Power	Air volume	Dimension L x W x H (mm)
TTLM100x2	4 to 7 t/h	0.75 kW	40+20 m ³ /min	2140 x 1400 x 1470
TTLM125x2	6 to 9 t/h	0.75 kW	55+25 m ³ /min	2150 x 1650 x 1470
TTLM160x2	8 to 12 t/h	1.1 kW	70+32 m ³ /min	2150 x 2010 x 1470
TTLM200x2	10 to 15 t/h	1.1 kW	90+40 m ³ /min	2150 x 2460 x 1470

ZDQL Vibrating Cleaning Sieve

ZDQL is used in rice mills and in grain plants handling wheat, corn, soy, oat, buckwheat, spelt and sorghum, either as a cleaning stage in the process or as a pre-cleaner in front of silo storage. It is built to seal well, which is what keeps dust inside the machine rather than in the building.

Model	Capacity (TPH)	Air volume (m ³ /h)	Power (kW)	Weight (kg)
ZDQL100	8 to 10	4000 to 4400	0.37 x 2	700
ZDQL125	10 to 15	5000 to 5500	0.37 x 2	800
ZDQL150	12 to 20	6000 to 7000	0.45 x 2	1000
ZDQL180	15 to 25	7200 to 8100	0.55 x 2	1100
ZDQL200	20 to 30	7000 to 8500	0.55 x 2	1200
ZDQL250	25 to 40	10000 to 11200	0.75 x 2	1400

Gravity Destoner

The suction type gravity destoner removes stones and heavy impurities the same size as the grain, in grain processing plants and rice mills. It is the machine that protects the rubber rollers and the emery in everything downstream of it.

Model	Capacity	Power	Air volume	Weight
TTDS 85B	3.5 to 4.5 t/h	0.75 kW	3200 to 3400 m ³ /h	340 kg
TTDS 100B	5 to 6.5 t/h	0.75 kW	3800 to 4100 m ³ /h	380 kg
TTDS 125A	7 to 8.5 t/h	1.1 kW	4800 to 5200 m ³ /h	400 kg
TTDS 168	10 to 12 t/h	1.5 kW	7500 to 7800 m ³ /h	510 kg
TTDS 170	10 to 12 t/h	13 kW	9000 to 10800 m ³ /h	850 kg
TTDS 200	13 to 15 t/h	15 kW	9000 to 10800 m ³ /h	890 kg

Pneumatic Rubber Roller Husker

The TITAN intelligent pneumatic husker measures roller diameter online with laser ranging and switches roller speed automatically to hold the best linear velocity as the rubber wears. Low speed and high speed rollers are driven by two frequency conversion motors that change automatically during operation.

Model	Input long grain	Input short grain	Power	Roller size	Weight
TRIH-25C	4 to 5 T/H	5 to 7 T/H	7.5 kW	254 x 254 mm	700 kg
TRIH-36	5 to 6 T/H	6 to 8 T/H	11 kW	225 x 356 mm	1000 kg
TRIH-51	6 to 7 T/H	7 to 8 T/H	15 kW	254 x 508 mm	1300 kg

Gravity Paddy Separator

MGCZ and TIPS paddy separators separate pure brown rice from the paddy mixture using differences in specific gravity, granularity and friction coefficient. The double body MGCZ machine handles the high capacity duty, and the machine adapts well to seriously mixed material.

Model	Output of brown rice	Power	Weight	Dimension L x W x H (mm)
MGCZ 60x16x2	4.5 to 6.5 t/h	4 kW	1350 kg	1980 x 1780 x 2100
MGCZ 60x20x2	6.0 to 8.0 t/h	4 kW	1450 kg	1980 x 1780 x 2250
MGCZ 60Bx20x2	9.0 to 11 t/h	5.5 kW	2050 kg	2420 x 2130 x 2500
MGCZ 80Bx20x2	10 to 15 t/h	7.5 kW	2850 kg	2800 x 2130 x 2400
TIPS100*8	1.5 to 2 t/h paddy	1.1 kW	450 kg	1680 x 1280 x 1550
TIPS60*20	6 to 8 t/h paddy	3 kW	1500 kg	2270 x 1670 x 2160
TIPS70*20	10 to 15 t/h paddy	4 kW	1800 kg	2550 x 2030 x 2400

TTSM Horizontal Emery Roller Whitener

The TTSM horizontal emery roller whitener is developed for milling and whitening in large and medium sized rice milling plants. It uses suction rice milling, which brings rice temperature down, keeps bran content in the chamber lower and reduces the broken increment compared with milling without suction.

Model	Output	Power	Air volume	Weight
TTSM 18F	2 to 3 t/h	18.5 to 30 kW	1500 to 2500 m ³ /h	510 kg
TTSM 21.5F	3 to 4 t/h	30 to 37 kW	2000 m ³ /h	660 kg
TTSM 30DF	4.5 to 8.5 t/h	37 to 55 kW	2500 to 3000 m ³ /h	980 kg
TTSM 18F x2	2 x (2 to 3) t/h	18.5 to 30 kW	2000 to 3000 m ³ /h	1140 kg
TTSM 21.5F x2	2 x (3 to 4) t/h	30 to 37 kW	3000 to 4000 m ³ /h	1240 kg
TTSM 30DF x2	2 x (4.5 to 8.5) t/h	37 to 55 kW	4000 to 5000 m ³ /h	1670 kg

TTG And TIWP Rice Polisher

TTG and TIWP rice polishing machines finish the surface of milled rice. With a blade shaped polish screen, bran powder is fully polished off, so the rice is cleaner, brighter and smoother to the touch. Polishing also improves resistance to oxidation, which extends the period the rice stays fresh.

Model	Output	Power	Air volume	Weight
TTG7B	4 to 8 t/h	2 x (37 to 45) kW	3500 to 4000 m ³ /h	2400 kg
TTG12A	6 to 10 t/h	2 x (45 to 55) kW	4000 to 5000 m ³ /h	2750 kg
TMPG 158x2	5 to 8 t/h	2 x (45 to 55) kW	4000 to 5000 m ³ /h	3100 kg
TIWP50	2.5 to 4 t/h paddy	37 to 45 kW	Wind power 7.5 kW	1500 kg
TIWP100	4 to 5 t/h paddy	45 to 75 kW	Wind power 7.5 kW	2000 kg

MMJM Rotary Rice Grader

The MMJM(X) rotary rice grader shifts milled rice accurately into head rice, large broken, medium broken and small broken, and it separates other similar grains as well. It uses a cardan joint connecting rack with a suspender and a non eccentricity transmission device, and the sieve parameters increase the grading area.

Model	Capacity	Power	Air volume	Weight
MMJM(X)160 x 4	5 to 6.5 t/h	1.5 kW	800 m ³ /h	1560 kg
MMJM(X)160 x (4+1)	5 to 6.5 t/h	1.5 kW	800 m ³ /h	1660 kg
MMJM(X)160 x (5+1)	8 to 10 t/h	2.2 kW	900 m ³ /h	2000 kg
MMJM(X)200 x (5+1)	10 to 13 t/h	3.0 kW	900 m ³ /h	2340 kg

Super Eye AI Color Sorter

The Super Eye series is TITAN's intelligent sorter for rice, grains and beans. On rice it detects and removes mildewy, white and broken kernels and foreign matter such as glass, and classifies material by colour, shape and other differences, including extremely light yellow rice, back line rice, needle tip, diseased rice, small broken rice and japonica and indica separation.

Model	Channels	Power (kW)	Output (t/h)	Power input
TT1	64	0.9	0.8 to 1.8	220 V 50/60 Hz
TT2	128	1.2	1.0 to 3.0	220 V 50/60 Hz
TT3	192	2	2.0 to 5.0	220 V 50/60 Hz
TT5	320	3	4.0 to 7.0	220 V 50/60 Hz
TT7	448	4	6.0 to 10.0	220 V 50/60 Hz
TT8	512	4.5	7.0 to 12.0	220 V 50/60 Hz
TT10	640	5	7.0 to 20.0	220 V 50/60 Hz

Sorting performance is quoted using about 2 percent contaminated wheat or rice as the reference sample. The figures change with the material and the impurities in it.

DCS Quantitative Rationed Packing Scale

The DCS series is a high speed quantitative packing machine for granules in food, grain, fodder, sugar making and chemical industries. The double hopper models run fast because one hopper doses while the other discharges, and the accuracy class is stated per model rather than promised in general.

Model	Packing range	Packing error	Division value	Accuracy class
DCS-5SC1	1 to 5 kg	0.2 % F.S	2 g	X(0.2)
DCS-15SC1	5 to 30 kg	0.2 % F.S	5 g	X(0.2)
DCS-25SC1	5 to 50 kg	0.1 % F.S	10 g	X(0.1)
DCS-5S	1 to 5 kg	0.2 % F.S	2 g	X(0.2)
DCS-15S	2 to 15 kg	0.2 % F.S	5 g	X(0.2)
DCS-25S	5 to 50 kg	0.1 % F.S	10 g	X(0.1)

Double hopper SC1 machines reach 800 bags per hour at 5 to 25 kg and 700 bags per hour or more at 50 to 100 kg. Single hopper S machines reach 600 and 400 bags per hour respectively. Power and air supply AC 220 V 50 Hz at 0.4 to 0.8 MPa.

TT 5H Low Temperature Grain Dryer

The TT 5H dryer handles paddy, corn, wheat, rice, soybean, sorghum, rapeseed, cashew, barley and other agricultural products. It uses maximum air volume with low temperature drying at around 40 to 60 C, heating the grain briefly and then circulating it, which keeps the broken rate down while improving dehydration efficiency.

Model	Capacity (t)	Power (kW)	Air intake (m ³ /h)	Net weight (t)
TT 5H-10	5 to 10	8.5	10000 to 14000	2.3

Model	Capacity (t)	Power (kW)	Air intake (m3/h)	Net weight (t)
TT 5H-12	5 to 10	8.5	10000 to 14000	2.5
TT 5H-15	5 to 15	9.2	10000 to 14000	3.0
TT 5H-20	7 to 20	13.15	12500 to 14000	3.7
TT 5H-25	10 to 25	20.35	20000 to 25000	4.5
TT 5H-30	10 to 30	20.35	20000 to 25000	5.0