FARIVO

Cleaning Section Selection Guide

Complete wheat and maize mills, 20-500 TPD, single machines and cleaning-section selection.

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Destoner configuration: screening and aspiration work together to remove high-density impurities.

A matched cleaning section for your grain

Farivo brings intake screening, size separation, destoning and aspiration into one equipment-selection discussion. Start with your material and target flow, then compare the machine, air and space requirements together.

YOUR DUTY	SELECTION IN THIS GUIDE
Intake pre-cleaning	TSCY: 15-100 t/h wheat across five sizes
Screen separation	TQLMa: three configurations; HZZD: 120-200 t/h wheat with 8 mm holes
Destoning	TQSFa: seven sizes, 6-30 t/h wheat
Dust and husk separation	TFDZ-G: five wheat aspiration configurations

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Protect the next process

TSCY cylinder pre-cleaners remove oversize material at intake, before the grain reaches downstream equipment.



Enclosed cylinder pre-cleaner configuration shown.

Model	Wheat (t/h)	Paddy (t/h)	Power (kW)	Speed (r/min)	Air (m³/h)	Weight (kg)	L x W x H (mm)
TSCY63	15-20	6-10	0.75	28	600	290	1650 x 790 x 1260
TSCY80	20-30	10-15	1.1	22	720	400	2030 x 1000 x 1560
TSCY100	30-40	15-20	1.5	20	900	910	1750 x 1250 x 2068
TSCY125	50-60	25-40	2.2	20	1100	1200	2000 x 1500 x 2340
TSCY150	70-100	40-60	2.2	20	1200	1300	2400 x 1800 x 2590

What it means for your mill

One series covers 15-100 t/h of wheat. Five size choices let you compare intake flow, aspiration and installation dimensions without changing the basic pre-cleaning approach.

Choose the opening for the incoming grain

Square screen references: 11 x 11, 13 x 13, 14 x 14, 16 x 16, 18 x 18, 20 x 20 and 25 x 25 mm. Select against the grain and oversize impurity sizes; output varies with the opening.

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Match screening to plant scale

Rotary screening options cover both moderate-flow cleaning and high-throughput wheat pre-cleaning.

TQLMa: compact model selection

Model	Capacity (t/h)	Power (kW)	Speed (rpm)	Air (m³/h)	Weight (kg)	L x W x H (mm)
TQLM100a	6-9	1.1	389	4500	630	2070 x 1458 x 1409
TQLM125a	7.5-10	1.1	389	5600	800	2070 x 1708 x 1409
TQLM160a	11-16	1.1	389	7200	925	2070 x 2146 x 1409

What it means for your mill

TQLMa offers 6-16 t/h across three configurations. All three share a 2070 mm length and 1409 mm height; width and aspiration rise with the selected duty, making layout comparison straightforward.

HZZD: high-throughput wheat cleaning

Model	Wheat (t/h), 8 mm round holes	Speed (r/min)	Power (kW)	Air (m³/min)	Weight (kg)	L x W x H (mm)
HZZD150 x 200/8	120-150	300 ±5	3+0.75	200	6100	3462 x 2445 x 3892
HZZD200 x 200/8	160-200	300 ±5	4+0.75	260	7100	3462 x 2945 x 3892

What it means for your mill

HZZD handles 120-200 t/h of wheat in the stated 8 mm screen duty, providing a high-throughput option for larger intake-cleaning systems. Compare its external aspiration demand with the plant air system.

Selection condition: HZZD ratings are for wheat with 8 mm round holes; its air values are in m³/min.

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Scale the destoning duty

TQSFa combines vibration and air flow to separate high-density impurities from grain.



Destoner configuration shown. The a-series ratings are listed below.

Model	Wheat (t/h)	Paddy / maize (t/h)	Power (kW)	Air (m³/h)	Weight (kg)	L x W x H (mm)
TQSF80a	6-9	4.5-6.5	2 x 0.25	6700	540	1660 x 1226 x 2028
TQSF100a	8-11	6-8	2 x 0.55	8400	615	1660 x 1426 x 2028
TQSF125a	12-15	8-11	2 x 0.55	11000	690	1660 x 1676 x 2028
TQSF150a	15-18	11-13	2 x 0.55	13800	760	1660 x 2000 x 2028
TQSF180a	17-22	12-16	2 x 0.55	16800	820	1660 x 2300 x 2028
TQSF200a	16-22	12-16	2 x 0.75	8400 x 2	1120	1660 x 2620 x 2028
TQSF250a	24-30	16-22	2 x 0.75	11000 x 2	1260	1660 x 3120 x 2028

What it means for your mill

Seven sizes cover 6-30 t/h of wheat. Every listed machine is 1660 mm long; the common length helps compare layout options as screen width and air demand change.

Plan access with the machine

Reserve 1400 mm at the screen-replacement end and 700 mm at the opposite end. This provides a defined service route for screen changes and maintenance.

Selection condition: equipment resistance 1800 Pa; screen pitch 5-9°; paired air values remain stated as x 2.

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Match air to the grain stream

TFDZ-G uses a vibrating feeder to spread wheat across the aspiration channel for dust and husk separation.

Model	Wheat dust / husk separation (t/h)	Maximum air (m³/h)	Power (kW)	Resistance (Pa)	Weight (kg)	L x W x H (mm)
TFDZ75G	5.9-8.9	2100	0.12	150	160	850 x 825 x 1445
TFDZ100G	8.9-11.8	2800	0.12	150	190	1205 x 920 x 1445
TFDZ150G	11.5-13.5	4200	0.12	150	260	1650 x 965 x 1445
TFDZ180G	16.2-21.5	5040	0.12	150	300	1950 x 965 x 1445
TFDZ200G	17.8-23.6	5600	0.25	150	350	2150 x 935 x 1445

What it means for your mill

Five configurations cover wheat duties from 5.9 to 23.6 t/h. The table brings feed capacity, maximum air volume, installed feeder power and dimensions together, so the aspiration channel can be compared with the surrounding equipment.

Connect the machine selection to the air system

CHECK	WHY IT MATTERS TO THE SELECTION
Air volume	The selected configuration sets the airflow to be considered with the plant aspiration system.
Resistance	The table gives 150 Pa for the equipment; ductwork, fittings and filtration also contribute to fan duty.
Feed distribution	The vibrating feeder spreads material across the channel for air separation.
Interfaces and space	Channel width, inlet/outlet position and overall dimensions guide the connection layout.

Selection condition: the listed capacity and airflow apply to wheat dust and husk separation.

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Turn your duty into a selection

Send a grain sample description and layout. Farivo can then compare the cleaning machines as a connected section.

What it means for your mill

One enquiry can cover the intake screen, separator, destoner and aspiration channel, together with the space and air requirements shown in this guide.

SEND US	WHAT IT HELPS US SELECT
Grain and condition	Wheat or maize, moisture, bulk density, broken kernels and the impurities to remove.
Required hourly flow	Machine size and the operating duty for each stage.
Existing or planned layout	Machine envelopes, screen-removal routes and upstream/downstream connections.
Aspiration arrangement	Available air system, duct routes and filtration arrangement.
Project location and status	Country, site location and whether this is a new line or an operating mill.

Talk to Farivo

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Selection note: figures apply to the stated configuration and material duty. Final equipment, interfaces, aspiration and installation details are agreed in the technical quotation.