

TURBO-SCREEN

TS



ABSOLUTE SEPARATION OF DRY PARTICULATE

THE SWECO® TURBO-SCREEN® AIR
CLASSIFIER PROVIDES CONTINUOUS,
PRECISE SCREENING OF FINE PARTICLE
SIZE DRY MATERIALS.



TURBO-SCREEN
AIR CLASSIFIER

SCREENING TECHNOLOGY WITH A VISIBLE DIFFERENCE

The clear choice for separation of dry particulate.

TOTAL SYSTEMS CAPABILITY

The SWECO® Turbo-Screen® Air Classifier provides continuous, precise screening of dry materials, especially in the finer particle sizes. Designed to handle even the most difficult materials, the Turbo-Screen unit is ideally suited for separating electrostatic materials and particles that tend to agglomerate easily. In certain applications, it is the only machine capable of commercial scale separation.

The Turbo-Screen unit uses a variety of screen sizes, from 60 to 600 mesh, providing efficient separation of particles ranging from 25 to 300 microns. Unlike a standard air classifier, the Turbo-Screen system provides an absolute cut. This has opened new possibilities for fine-particle separation within a wide variety of industries, include food, chemical, powdered metal, plastic, electronics, and ceramic.

The Turbo-Screen can be used independently or can be matched to other SWECO equipment in open or closed circuit material handling systems. SWECO can also provide upstream and downstream equipment to meet the requirements of almost any application.

APPLICATIONS

SWECO Turbo-Screens are currently processing a variety of material with bulk densities that range from 2 lb/ft³ (pollen particles) to over 400 lb/ft³ (metal powders). Our in-depth experience assures accurate processing of particles of all shapes and sizes. Typical applications include plastic materials, ceramic powders, metal powders, pharmaceuticals, tobacco, chemicals and minerals, coal, and more...

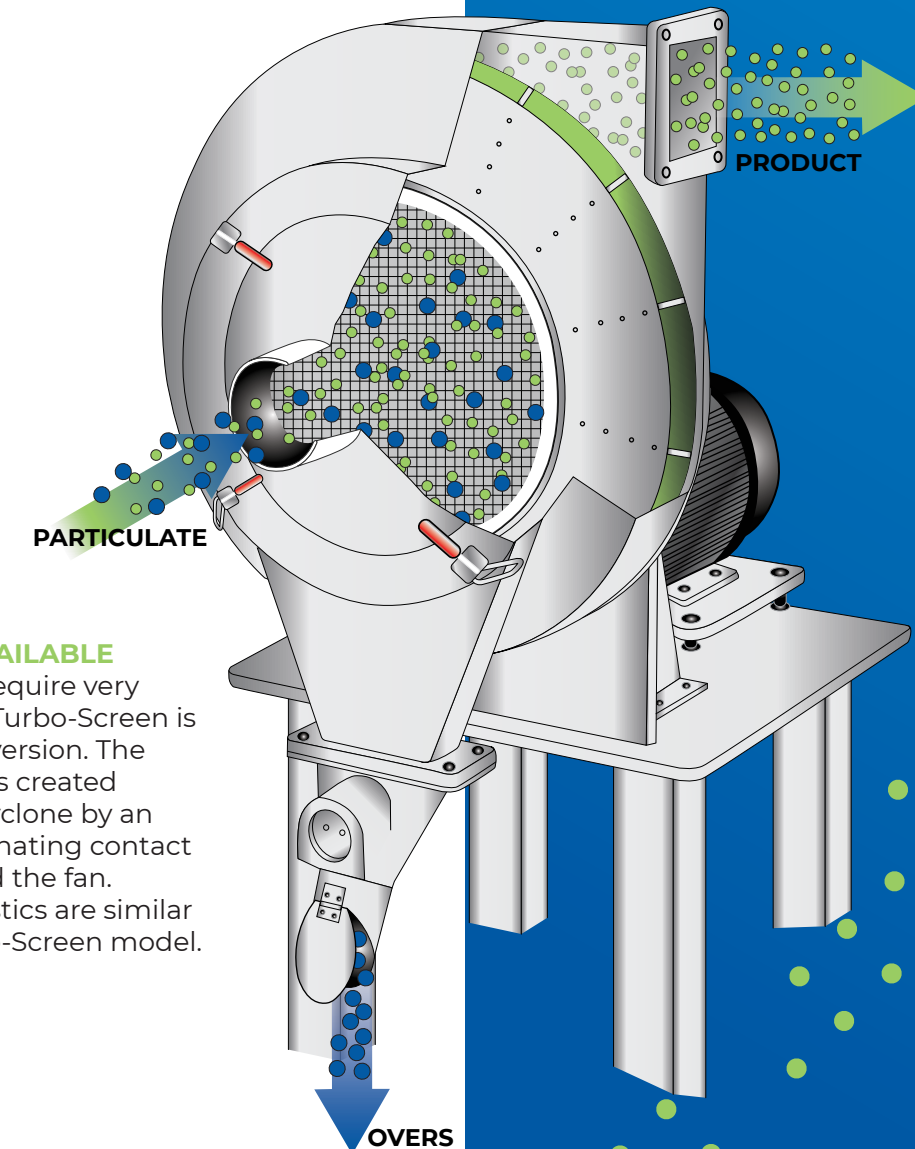


A FULL RANGE OF OPTIONS AND ACCESSORIES

- Adjust-a-Vibe™ Motion Controller for fine-tuning of process parameters
- A variety of control panels are available to detect any inlet, screen, cyclone, or dust collector blockage
- Feeding mechanisms for accurate material flow
- Quick release cyclones (two-piece assembly) with a clamp ring for easy clean-out
- Dust collector for dust-free operation

SIMPLE OPERATION, SUPERIOR RESULTS

Downtime factors have been engineered out of the Turbo-Screen to allow continuous processing. An operator can change screens in just minutes without tools. Quick release clamps and a hinged cover allow easy access to the internal screen chamber. The material to be separated is continuously transported into the system and presented to the screen by a high-velocity air flow, generated through a radial fan located in the housing behind the screen. Oversize particles are either collected or returned for further processing. The screened product is conveyed by the fan to a cyclone and/or dust collector and discharged. Blinding of the screen is prevented by a continuous blow-back system. A rotating air wand blows a knife-edge sheet of compressed air against the back of the screen to effectively prevent oversize and nearsize particles from blocking the screen openings.



FANLESS MODEL AVAILABLE

For materials which require very gentle handling, the Turbo-Screen is available in a fanless version. The airflow in this model is created downstream of the cyclone by an external blower, eliminating contact between material and the fan. Operating characteristics are similar to the standard Turbo-Screen model.



A HERITAGE OF SCREENING EXPERTISE

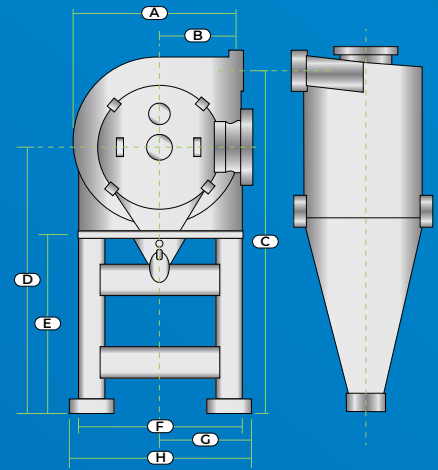
TURBO-SCREEN AIR CLASSIFIER

SPECIFICATIONS	MODEL TS18	MODEL TS30
Screen Diameter (inch / mm)	18 / 450	30 / 760
Motor (HP)	5	7.5
Blower (RPM)	100-2200	100-1400
Air Volume at Max. RPM (scfm)	750	1500
Air Wand Pressure (PSI)	30-75	30-75
Air Required to Operate Air Wand (scfm)	15-35	30-70

MATERIALS OF CONSTRUCTION *

Housing	SS or CS	SS or CS
Impeller	SS	SS
Air Wand	SS	SS
Stand	CS	CS
Cyclone	SS	SS
Shipping Weight (lb / kg)	480 / 218	1080 / 490

* SS = STAINLESS STEEL, CS = CARBON STEEL



DIMENSIONS ^a	TS18	TS30
A	25.6 / 65	41.8 / 106
B	12.1 / 31	20.2 / 51
C	72 / 183	79.3 / 201
D	60 / 152	60 / 152
E	44 / 112	36 / 91
F	23 / 58	40 / 102
G	24 / 61	41 / 104

ALL DIMENSIONS AND WEIGHTS ARE ESTIMATES.
FOR EXACT MEASUREMENTS, REQUEST CERTIFIED DRAWING.

^a DIMENSIONS = INCHES / CENTIMETERS



SWECO has sales agents and/or licensees in most countries.

Manufacturers worldwide rely on SWECO.

We span five continents with 9 manufacturing and support facilities and over 100 sales and service representative offices.

So, wherever you are, be assured that SWECO – the global leader in screening technology – is there when you need us.