

T300 Orbital Machine

Uncompromising Versatility



T300 Family

- **T300 family provides the right product solution for your specific application**
 - Uncompromising versatility
 - Tackles virtually any hard surface condition
 - Improved operating costs



Dual Cylindrical
20 in / 500 mm
Self Propel



Orbital
20 in / 500 mm
Self Propel



Single Disk
17 in / 430 mm
20 in / 500 mm
Pad Assist & Self Propel



Dual Disk
24 in / 600 mm
Self Propel

Addressing Key Customer Needs

Enhance Facility Image

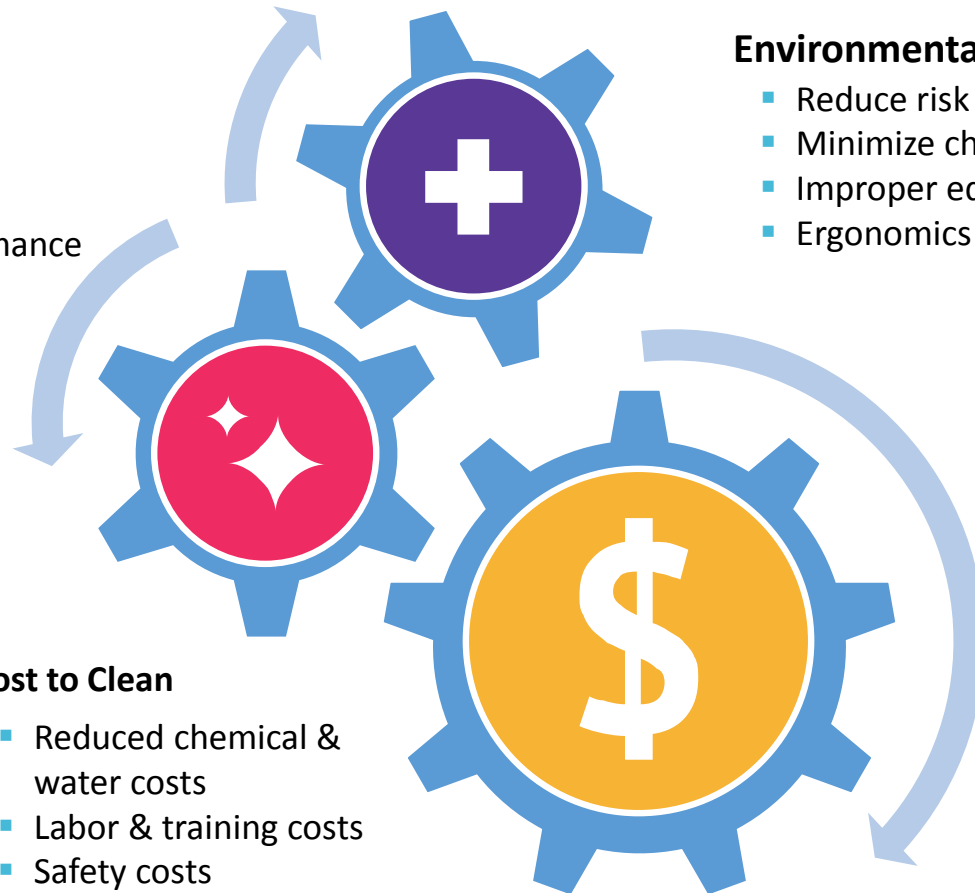
- Cleaning equipment performance
- Pad or brush selection
- Proper use of equipment
- Following proper cleaning processes

Cost to Clean

- Reduced chemical & water costs
- Labor & training costs
- Safety costs
- Service costs

Environmental Health and Safety

- Reduce risk of slip & fall accidents
- Minimize chemical handling & storage
- Improper equipment operation
- Ergonomics



T300/T300e - High Performance Results

- **LCD Pro-Panel™** - Offers on-board/on-demand video instructions*
- **Programmable Zone Settings™** - Standardization of cleaning processes*
- **Quiet-Mode™** - Noise levels as low as 58 dBA for sound sensitive environments*
- **Insta-Click™ Head** - Powerful magnets make cleaning tool on/off quick and easy
- **Low dBA** - A safer cleaning environment
- **Squeegee design** – Efficiently removes soils and helps quickly dry floors
- **Optimal down pressure and RPM** - Improve cleaning performance
- **ec-H2O NanoClean® technology** – Time-saving detergent-free cleaning
- **Severe Environment™ Switch** – Minimizes secondary cleaning operations*



T300e
Control Panel



T300
Membrane™



T300
Pro-Membrane™



T300
Pro-Panel™

* Not available on T300e machines

Addresses Virtually Any Hard Surface Condition

Orbital Applications

■ Markets

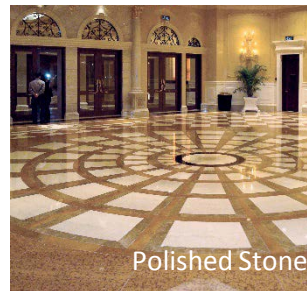
- Education
- Healthcare
- Retail
- Hospitality

■ Applications

- Aisle ways
- Checkout counters
- Classrooms
- Entryways
- Cafeterias
- Kitchens

■ Flooring

- Uneven & textured floors
- Grouted ceramic and porcelain tile
- VCT
- Polished stone
- Marmoleum®
- Teknoflor®





T300 Orbital – Daily Cleaner And Project Work

- **Cleans nearly 15,000 ft² (1,400 m²) per hour**
- **Orbital action uses fewer amps**
 - Improves battery runtime up to 45%* (up to 3.8 hours)
- **Superior edge and corner cleaning with distinctive cut lines**
 - Rectangular head gets into spaces that disk machines can't reach
 - Off-set pad cleans baseboards/cove moldings
- **Specialty cleaning capabilities**
 - Uneven, textured, and grouted floors
- **Improve floor finish removal with aggressive scrubbing**
 - Multiple down pressure settings up to 109 lbs (49 kg)
 - Multiple pad types



*When compared to Tennant 20"/50cm self-propel disk machine

Maximizes cleaning performance

Orbital – T300 / T300e

- Consistent through-pad solution delivery to the floor
- Consistent pad pressure across the entire pad width due to balanced rectangular orbital design
- New isolator warranty - the best in the industry - 2,000 hours / 3 years
- Aggressive scrubbing
 - Oscillations:
 - 2,200 - ¼" (6.4 mm) per minute
 - Three Down Pressure Settings:
 - 63 to 109 lbs. (29 to 49 kg)

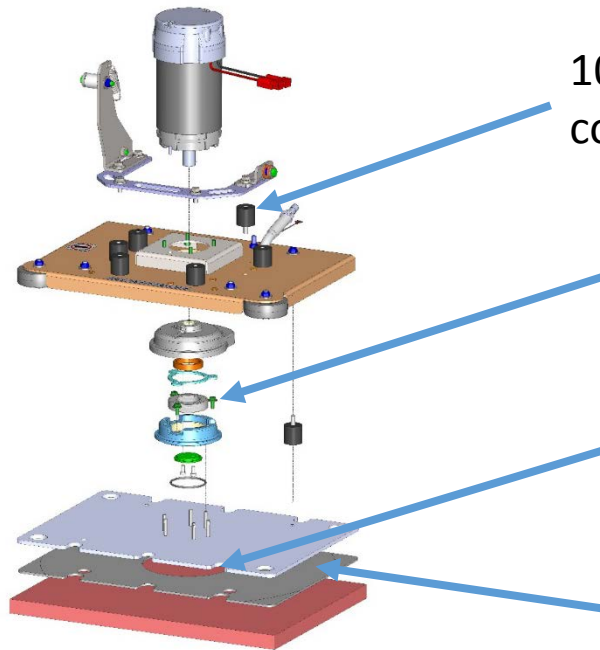


Consistent cleaning across the entire path width



Not All Orbital Machines Are Alike

- The orbital environment can be harsh unless you design for it
- T300 and T300e orbital design ensures machine durability, operator comfort and maximizes performance on the floor



10 isolators minimize vibration, enhancing operator comfort and machine durability

No water entrapment in bearings mitigates corrosion

Unique solution disbursement system fully saturates pad and provides consistent cleaning performance

Rectangular head allows for edge and baseboard cleaning

Pad Selection – Standard Pads

Pad color/type is important - The darker the color the more aggressive the pad

ORBITAL PAD BACKER WITH HOOK AND LOOP TAPE

The pad backer allows for compression of the working pad to the floor for optimal scrubbing or removal of floor finish. Uniquely designed to prevent the working pad from falling off during use or transportation.

3M™ WHITE POLISHING PAD

Use the white polishing pad for light cleaning to help remove soil and soft scuff marks with minimal dulling of finish.

3M™ RED CLEANING PAD

Red pads are designed for everyday cleaning and light scrubbing to remove light soil, scuff marks and black heel marks.

3M™ BLUE SCRUBBING PAD

The blue pad is used in heavy-duty scrubbing. It removes dirt, spills, and scuffs while leaving a clean, prepared surface.



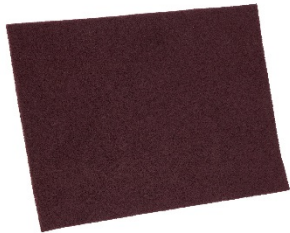
Pads are a critical part of the system

Pad Selection – Specialty Pads



GREEN TURF PAD

The green turf pad is designed to clean grouted tile floors, such as restrooms, and is capable of cleaning deep into grout lines. It is also effective on terrazzo, non-slip surfaces, concrete, Teknoflor®, Marmoleum® and other uneven floors.



3M™ MAROON SURFACE PREP PAD

The surface prep pad is designed for heavy-duty scrubbing for floor finish removal prior to recoating. It prepares wood, vinyl tile, sheet vinyl, marble, terrazzo and concrete floors for finish applications.



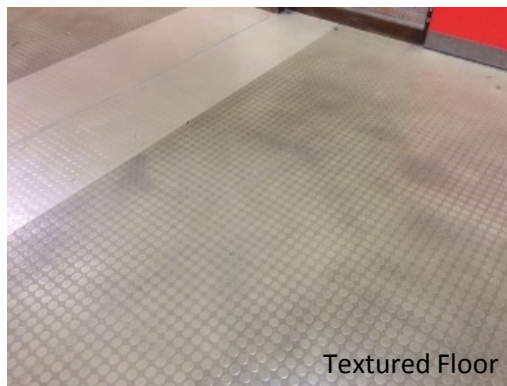
MELAMINE PAD

The Melamine pad is made of an open-cell polymeric foam that produces outstanding results when cleaning VCT, Terrazzo, Tile, Concrete and Epoxy floors. Effective at removing black marks and restores tile and grout without using harsh chemicals. This pad is an excellent choice for Teknoflor® and Marmoleum® floors.

Specialty pads expand the utility of the orbital machine

T300 Orbital With Green Turf Pad

- Excellent cleaner of raised, textured and grouted surfaces
- Pad compresses into grout lines and/or textured flooring
- Heavy duty turf material provides exceptional cleaning performance
- Ideal for a variety of floors, including:
 - Deep grouted tile
 - Concrete
 - Pirelli flooring
 - etc.



Textured Floor



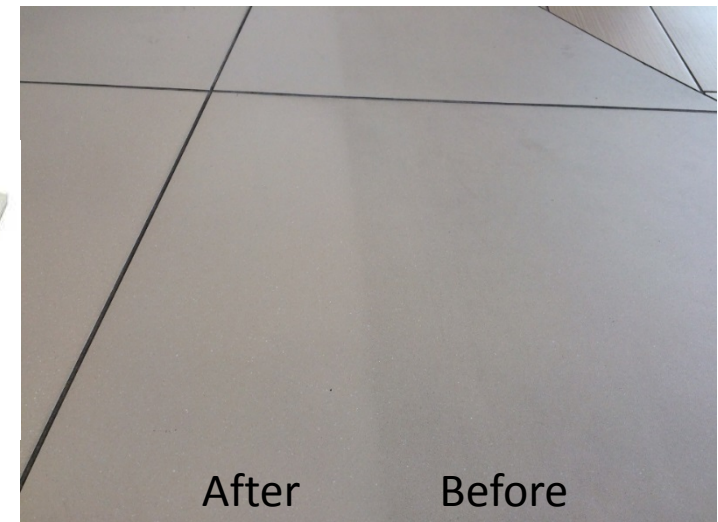
Grouted Tile

Cleaned with T300 orbital machine with green turf pad

Cleans textured and grouted floors

T300 Orbital – Melamine Pad

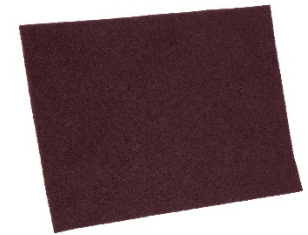
- Works without detergents or harsh chemicals
- Remove marks and stains from most porous surfaces
- They may be safely used to pull out dirt from all hard surfaces.
- Effective on:
 - Vinyl
 - Marmoleum® / Teknoflor® flooring (No wax vinyl flooring)
 - Porcelain
 - Terrazzo
 - Concrete
 - Ceramic tiles



Work on a variety of surfaces and scuff marks

T300 – Surface Prep Pad – Floor finish removal

- **Remove floor finish**
 - Re-coat without the cost and time of total floor finish removal
- **Finish removal without expensive stripping chemicals**
 - No chemicals and reduced labor time = lower costs
 - Quicker facility accessibility
 - Stripper with floor finish dust may thicken and clog floor drain
- **Safe environment**
 - Stripping chemicals can create slippery floor conditions increasing chance of slip and fall accidents
 - Reduction in potentially harmful VOCs
- **Environmentally friendly**
 - No introduction of chemicals into the waste stream



T300 with Surface Prep Pad

Minimizes the need, cost and time of full floor finish removal

T300 Orbital – Sonic Scrub Brush

■ Red Sonic Scrub Brush

- Designed to clean deep grout lines and uneven floor surfaces
- Bi-level filament reaches deep into grout lines
- Also fits a F14
- Effective on:
 - Red quarry tile
 - Grouted flooring



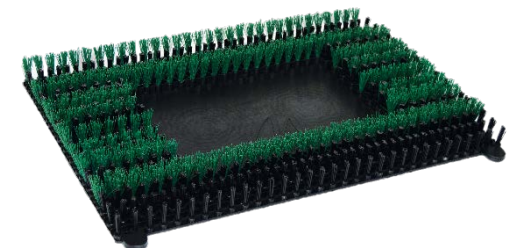
After using the
Red Sonic Scrub

Pre Sonic Scrub



■ Green Sonic Scrub Brush

- Designed to clean even floor surfaces
- Designed for heavy duty scrubbing or light stripping
- Also fit a F14
- Effective on:
 - VCT
 - Terrazzo
 - Grouted flooring



Chemical-Free Floor Finish Removal Process

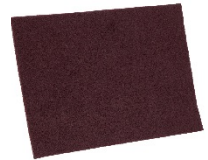
Process

1. Dry mop or sweep floors prior to scrubbing
2. Use hook and loop strips on red backer pad to attach Surface Prep pad
3. Attach red backer pad with the Surface Prep pad to machine
4. Scrub floor with water until floor has a dull appearance
5. Scrub floor with red pad and ec-H2O NanoClean® technology to remove any remaining dust on the floor. Allow floor to dry.
6. Dry mop floor with microfiber cloth or 3M™ Easy Trap
7. Apply two coats of floor finish as directed by finish manufacturer

Red backer pad
with hook and
loop strips



Surface
Preparation
Pad



Benefits

- No use of potentially caustic, slippery stripping chemicals
- Regain floor shine quickly
- Floor closed off for a short period of time
- Postpone costly and timely stripping process

Traditional Floor Stripping Vs. Floor Finish Removal

■ Traditional Floor Stripping

- Flood floor with stripping chemical, then wait 15 minutes
- Double scrub twice - recover water and chemical with squeegee blade and wet vac chemical slurry
- Mop down neutralizer to negate possible chemical reaction
- Use clean water in scrubber to rinse floor
- Apply 4 to 8 layers of floor finish - 30 minutes of dry time per layer



■ Process Involves

- Harsh chemicals to dissolve floor finish
- Slippery stripping chemicals can increase risk of slip and falls
- May require protective gear (boots, safety glasses, gloves, etc.)
- Slurry can splash on baseboards causing a secondary cleaning process
- Requires a variety of tools and equipment to complete job
- Floor is closed off for an extended period of time
- Stripping chemicals can be harmful to the environment



Baseboard Cleaning

T300 orbital machine provides a quick and easy way to clean baseboards

■ Process:

- Apply red backer pad to the machine
- Using the hook and loop strips, attach a wet cleaning pad to the red backer pad. Make sure to off-set the wet cleaning pad as shown in the picture to the right.
- Pad type dependent on baseboard material and soil load
- Scrub with the water turned on



Quick and easy edge cleaning



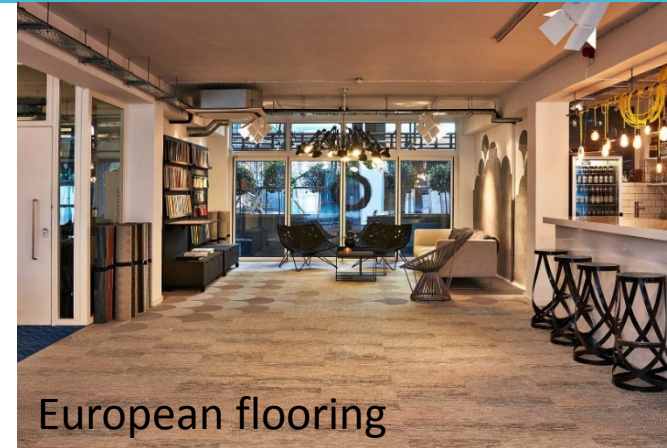
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Case Studies



Marsden Case Study - Challenge

- New 35,000 square-foot office Building
 - 6 different floor types
- New European flooring that current machines were not getting clean
- Needed a solution that
 - Addressed multiple floor types
 - Effectively cleaned the new European flooring
 - Left no chemical residue
 - Lowered costs to clean



European flooring

Complex cleaning environment required different solution



Marsden Case Study - Solution



- **Utilized orbital scrubber**
 - Reduced chemical usage
 - No chemical residue left behind
 - Reduced Cost
 - Eliminated need for multiple pass cleaning processes
 - One machine for multiple floor types
 - Reduced cleaning complexity
 - Reduced risk of slip and fall accidents



"We have the right equipment for the job. The previous cleaning process wasn't giving us the results we wanted, so Tennant allowed us to test their Orbital Scrubber — and the results were fantastic."

- Tim Rupard, President and COO of Marsden South

Floor Finish Removal - Challenge

- Multinational retail corporation
 - 4,000+ Stores
- Stripping and waxing floors nightly
- Needed a solution that:
 - Reduces cost
 - Improves productivity
 - Reduces chemical usage
 - Reduces mess (Store open 24/7)



Needed to maintain facility image and reduce costs

Floor Finish Removal - Solution



■ Utilized Orbital Scrubber

- Reduced chemical usage
- Improved productivity
 - 3-5 times more floor space per night
- Reduce Costs:
 - Eliminate chemical costs and labor hours
- No mess



Facility image and cost reduction achieved



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Summary

T300 Orbital Addressing Key Customer Needs

Enhance Facility Image

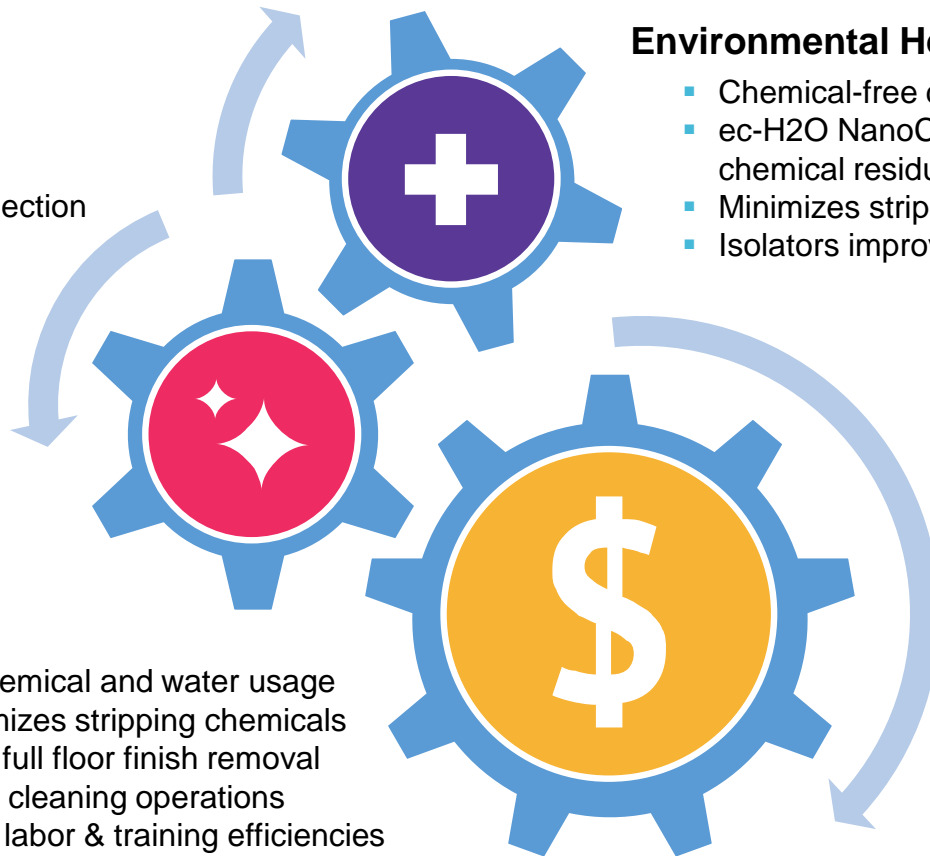
- High down force, RPMs and pad selection provide solid cleaning performance
 - Daily cleaning
 - Uneven floors
 - Variety of floor materials
 - Finish removal
 - Baseboard cleaning

Reduce Cost to Clean

- ec-H2O NanoClean® minimizes chemical and water usage
- Chemical-free finish removal minimizes stripping chemicals
- Delays costly and time consuming full floor finish removal
- Reduces the number of secondary cleaning operations
- Standardized equipment improves labor & training efficiencies

Environmental Health and Safety

- Chemical-free detergent removal
- ec-H2O NanoClean® leaves no chemical residue on the floor
- Minimizes stripping chemical VOCs
- Isolators improve operator comfort



T300 orbital system addresses a host of key needs



T300/T300e Orbital Machines

- Great daily cleaning machine
- Tackles a variety of specialty cleaning needs
- Maximizes results on the floor
- Saves money
 - Multi-functional machine
 - Minimize labor costs for floor finish removal
 - Edge and baseboard cleaning
 - Chemical-free finish removal



Great all-purpose machine

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T300/T300e Orbital Machines

Thank You!

