

TYPHOON®-HD

Heavy-Duty Cabinet Turntable Cleaning System

The Typhoon®-HD is ideally suited for manufacturing and maintenance applications involving chip and coolant removal, de-oiling, phosphating, rust proofing, rust stripping, paint stripping, degreasing, dirt and carbon removal, rinsing and drying.

An aqueous-based cabinet-style turntable spray washer designed for single- or multi-stage cleaning processes, its proven design and durable construction make the Typhoon®-HD virtually maintenance free.

Proceco offers you the industry's most complete line of turntable washers with 7290 different configurations and 43 pre-engineered optional features. What's more, we can deliver your tailor-made system with the fastest lead time in the industry.

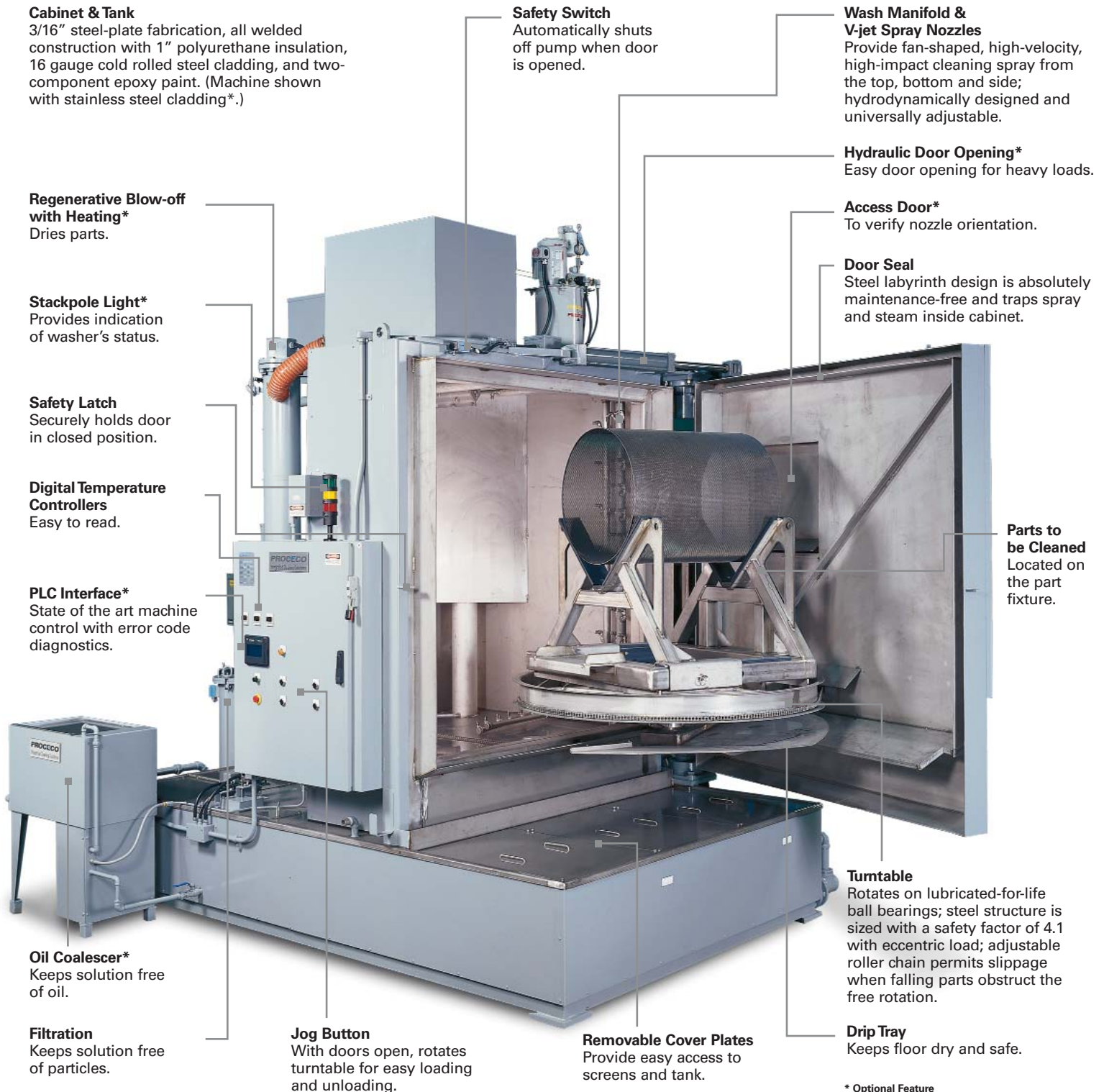
And of course, all Proceco washers are factory tested to provide the greatest advantage of all: peace of mind.



PROCECO®
Integrated Cleaning Solutions

Typhoon®-HD Customized Cleaning System

The vast array of features built into the Typhoon®-HD make it the cleaning system of choice. Proceco's exclusive single- or multi-stage cleaning technology combines pressure, heat and aqueous-based solutions to clean your parts to spec within minutes.



Cabinet & Tank

3/16" steel-plate fabrication, all welded construction with 1" polyurethane insulation, 16 gauge cold rolled steel cladding, and two-component epoxy paint. (Machine shown with stainless steel cladding*.)

Regenerative Blow-off with Heating*
Dries parts.

Stackpole Light*
Provides indication of washer's status.

Safety Latch
Securely holds door in closed position.

Digital Temperature Controllers
Easy to read.

PLC Interface*
State of the art machine control with error code diagnostics.

Oil Coalescer*
Keeps solution free of oil.

Filtration
Keeps solution free of particles.

Jog Button
With doors open, rotates turntable for easy loading and unloading.

Safety Switch
Automatically shuts off pump when door is opened.

Wash Manifold & V-jet Spray Nozzles
Provide fan-shaped, high-velocity, high-impact cleaning spray from the top, bottom and side; hydrodynamically designed and universally adjustable.

Hydraulic Door Opening*
Easy door opening for heavy loads.

Access Door*
To verify nozzle orientation.

Door Seal
Steel labyrinth design is absolutely maintenance-free and traps spray and steam inside cabinet.

Parts to be Cleaned
Located on the part fixture.

Turntable
Rotates on lubricated-for-life ball bearings; steel structure is sized with a safety factor of 4.1 with eccentric load; adjustable roller chain permits slippage when falling parts obstruct the free rotation.

Drip Tray
Keeps floor dry and safe.

* Optional Feature
Design subject to change without notice.

Pre-Engineered Optional Features

Recirculating 2nd Stage



Wash Pump

Rinse Pump

Recirculating Second Stage
Comes complete with separate tank, circulation pump, spray manifold, heating elements, cycle timer and pneumatic diverter. Can be used for rinsing, rust inhibiting or multi-stage chemical processes.

Optional Environmental Features



Automatic Sludge Removal & Grease Skim Conveyor
Automatically scrapes sludge from the tank bottom and skims floating grease from the solution surface on its return loop.

Fixed Turntables



Fixed Turntables
With 2 Guillotine Doors
Fixed turntable washer equipped with vertically sliding doors at either end for flow-through operations.



Pit Installation
Turntable is located at floor level for roll-in and roll-out of parts racks.

Spray Manifolds

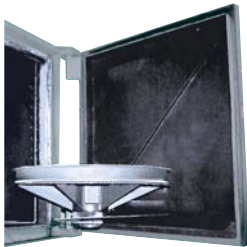


Spray Manifolds
Oscillating Center Nozzle Pipe
Cleans the inside of cylindrical surfaces. The safety plate retracts the nozzle pipe in case of collision with parts.



Fixed Center Nozzle Pipe
Cleans the inside of pots, totes and drums placed upside down on the turntable.

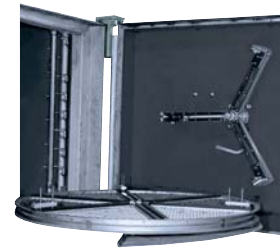
Turntable Configurations



Extra Heavy-Duty Turntable
For loads of 10,000 to 20,000 lbs.

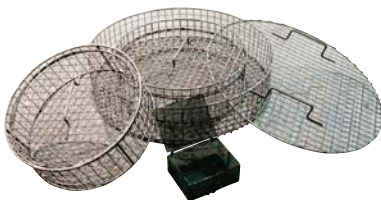


3-Tier Turntable
Simultaneously cleans 3 layers of parts.



Horizontal & Vertical Turntables
Rotate parts around vertical and horizontal axes.

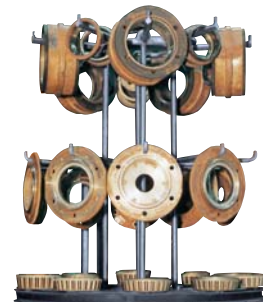
Other Popular Features



Parts Baskets
Ensure easy loading and proper positioning of parts on the turntable. Made of steel wire mesh; available in various sizes.



Special Fixture
Optimally positions tubular parts for cleaning and phosphating of inside diameters.



Special Fixture
Supports bearing components for best spray exposure.

Heavy-Duty Cabinet Turntable Cleaning System

OPTIONAL FEATURES	BENEFITS
Additional recirculating rinse stages	Enhanced process quality and flexibility
Freshwater rinse/rust inhibitor	Low-budget rinse and rust protection
Chemical concentration maintenance	Uniform cleaning results
Increased pump capacity	Enhanced cleaning power, shorter cleaning cycles
Pressure/flow control valve & gauge	Reduced spray impact for lightweight/delicate parts
Full-flow bag or cartridge-type filters	Higher precision cleaning & extended solution life
Sludge removal conveyor	Reduced chemical use & extended solution life
Oil coalescing unit or oil skimmer	Reduced chemical use & extended solution life
Center nozzle pipes, fixed or oscillating	Effective inside cleaning of hollow shapes
Swing-down nozzle pipe	Effective cleaning of high & low parts loads
Blow-off, plant air or regenerative, ambient or heated	Faster parts drying
Exhaust blower	No emissions into work environment
Tank pump-out package	Reduces downtime during solution change
Gas or steam heating	To suit customer's energy source
7-day timer to program heating cycles	Saves energy during off-shifts and weekends
Automatic solution level control	Maintains machine in optimal operating condition
High-level alarm package	Prevents solution spillage
Programmable logic controller	Facilitates process programming and diagnostics
Power operated swing-out door	Prevents back injury to operators (swing-out turntable only)
Side access door	Facilitates inspection of nozzle orientation
Double doors, hinged or sliding	Permits through-feed parts handling (fixed turntable only)
Loading boom	Machine loading independent of building crane
Parts racks, baskets, fixtures	Optimal spray exposure and fast loading
Sound enclosure	Maintains healthy work environment
Stainless steel construction	For long life, chemical resistance and appearance

Sizes and Configurations

STANDARD DIMENSIONS		TURNTABLE CAPACITY	PROCESS STAGES	HEATING METHODS
TURNTABLE DIAMETER	WORK HEIGHT			
28"	36"	1,000 lbs	First recirculated stage (wash or pre-wash)	Electric
42"	48"	2,500 lbs	Second recirculated stage (wash or rinse)	Steam
50"	60"	6,000 lbs	Third recirculated stage (rinse)	Gas
62"	72"	10,000 lbs	Fresh water rinse	
75"	84"	20,000 lbs	Blow-off	
88"	96"		Dryer	
100"	108"			
124"	120"			
148"	144"			