

ZERO

Blast Cabinets

Tumble Cabinets



Clean • Peen • Deburr • Finish
Automatically

The Performance System

Set-It & Forget-It: sa

ZERO tumble blast cabinets deliver efficient, affordable batch processing to clean,peen, deburr, or finish parts.

Applications include:

- *Remove residual sand from metal castings*
- *Beautify steel, stainless steel, aluminum, brass and other metals with a uniform matte finish*
- *Remove burrs, parting lines, flashings and other defects from castings and injection molded parts*
- *Shotpeen springs, journals, bearings, valve stems, tools, and other products to enhance strength and reliability*
- *Clean mold release and material buildup from molds*



*BNP- 3.5
being loaded*

Tumble Belt Cabinets

Built for manufacturers who need efficient, reliable, high-production blasting. ZERO offers super-duty tumble belt cabinets for high-production suction or pressure blasting on heavy parts and large batches up to 800 pounds. Available in capacities of 2.5, 3.5, and 7 cubic feet, the standard tumble belt cabinet includes up to six ZERO automatic blast guns that can be positioned to suit the part load. An optional pressure blast system lets you dramatically reduce cleaning times or increase peening intensity.

The seven cubic foot cabinet includes a standard oscillating gun mount to ensure maximum coverage. ZERO's tumble belt cabinets work with most common recyclable blast media — from fine glass beads or ALOX to coarse steel grit and shot. Inside the tumble cabinet, the parts ride on a thick rubber belt that is perforated to allow the blast media to fall through. The plate steel walls and door of the tumble belt cabinet blast enclosure stand up to years of high-intensity shot peening.

Save labor; save time

With a ZERO tumble blast cabinet, you simply load the parts and set the timer, then come back later to unload perfectly cleaned or finished parts. By varying the time, blast pressure, media type, media flow, tumble speed, and blast duration, you can engineer a process that delivers perfect parts, then repeat it for all subsequent batches. As the parts tumble, one or more nozzles uniformly blast all exposed surfaces.

Tumble Barrel Cabinets

Available in capacities of 1, 2, and 3 cubic feet, ZERO tumble barrels handle part loads up to 300 pounds. Tumble barrel systems are perfect for automotive rebuilders and small parts manufacturers.

ZERO offers tumble barrel cabinets with suction blast systems only. Inside the barrel, the parts ride on a cushioning layer of media, while two to six automatic blast guns thoroughly clean, etch orpeen their surfaces. Inside barrel comprised of replaceable rubber covered metal panels.



BNP-164 shown

Two-Gallon Tumble Basket Option



Add tumble barrel processing to your cabinet. The basket mounts on the cabinet door and holds two gallons — up to 25 pounds — and includes tumble basket, motor, stationary gun mount, template and mounting supports. This system uses your cabinet's existing blast gun, media recovery and reclamation system, and dust collector.

Small Capacity Tumble Barrels

BNP 160 Tumble Basket Blast Cabinet

A production suction-type blast cleaning machine with a small footprint, the BNP-160 fits nicely in the work flow stream, helping to eliminate unnecessary handling or worker movement. For small occasional batches or use up to 8 hours per day, the BNP-160 features a 2-gallon tumble basket for processing up to 25 pound loads. It has a reclaimer for media cleaning and reverse-pulse dust collector which pulses with each basket revolution. The unit is equipped with a 60 minute timer and is suitable for use with most fine-mesh blast media.



DCM 161 Mini-Tumble Blast Cabinet

Perfect for automotive shops and other low-production applications — the DCM 161 automatically removes rust and carbon buildup. The barrel holds two gallons — up to 25 pounds of brake parts, engine components or other small hardware. The suction blast system works with most fine mesh media and requires just 17 cfm of air at 60 psi. Includes door-mounted ZERO automatic gun, with #5 ceramic nozzle and #4 orifice, a 100-cfm exhaust fan to draw dust into bag filter and a manual reset 60-minute timer.



Specifications

Specifications, electrical requirements, and air consumption will vary based on options, configuration, and production requirements.

Cabinet Model	ZERO BNP 2.5 Tumble Belt	ZERO BNP 3.5 Tumble Belt	ZERO BNP 7.0 Tumble Belt
Cabinet Dimensions	33" W x 36" D x 64" H	43" W x 36" D x 64" H	56" W x 48" D x 77" H
Door Size	19.5" W x 26" H	30" W x 26" H	42" W x 34" H
Load Capacity	2.5 cu ft	3.5 cu ft	7.0 cu ft
Load Limit	250 lbs (25 lb max part wt.)	500 lbs (25 lb max part wt.)	800 lbs (25 lb max part wt.)
Belt Width	21" W	30" W	42" W
Drive Motor	3/4 hp	3/4 hp	1 hp
Blast Gun	2 - #6 ZERO Auto Guns	6 - #6 ZERO Auto Guns	6 - #6 ZERO Auto Guns
Air Consumption	94 scfm @ 80 psi	282 scfm @ 80 psi	282 scfm @ 80 psi
Minimum Air Supply	1-1/2 in. NPT	1-1/2 in. NPT	1-1/2 in. NPT
Reclaimer	600 cfm	900 cfm	1800 cfm
Dust Collector	600 cfm DF	900 cfm RPH-2	1800 cfm RPH-4
Electric Needed	230 or 460/3/60 (please specify)	230 or 460/3/60 (please specify)	230 or 460/3/60 (please specify)
Full Load Amperage	***	***	***

Standard Electrical Package includes: Blower on/off, 60-minute. Auto Reset Timer, Jog Switch, Variable Speed Belt Drive, NEMA-12 Enclosure. Optional pressure blast system available. *** Available upon request.

Cabinet Model	ZERO BNP 162 Tumble Barrel	ZERO BNP 164 Tumble Barrel	ZERO BNP 166 Tumble Barrel
Cabinet Dimensions	24" W x 36" D x 65" H	36" W x 36" D x 65" H	44" W x 36" D x 65" H
Door Size	24" W x 44" H	36" W x 44" H	44" W x 44" H
Barrel Capacity	1.0 cu ft	2.0 cu ft	3.0 cu ft
Barrel Dimensions	24" Diameter x 12" W	24" Diameter x 24" W	24" Diameter x 36" W
Barrel Load Limit	100 lbs	200 lbs	300 lbs
Barrel Door	12" W x 10" H	24" W x 10" H	36" W x 10" H
Tumble Drive Motor	1/2 hp	3/4 hp	3/4 hp
Blast Gun	2 - #5 ZERO Auto Guns	4 - #5 ZERO Auto Guns	6 - #5 ZERO Auto Guns
Air Consumption	64 scfm @ 80 psi	128 scfm @ 80 psi	192 scfm @ 80 psi
Minimum Air Supply	1 inch NPT	1-1/2 in. NPT	1-1/2 in. NPT
Reclaimer	300 or 600 cfm	600 or 900 cfm	900 cfm
Dry Filter	300 or 600 cfm	600 or 900 cfm	900 cfm
RPC/RPH Collector	600 cfm	600 or 900 cfm	900 cfm
Electric Needed	230 or 460/3/60 (please specify)	230 or 460/3/60 (please specify)	230 or 460/3/60 (please specify)
Full Load Amperage	8.05	8.85 (600), 13.65 (900)	13.65

Standard Electrical Package includes: Blower on/off, 60-minute Manual Reset Timer, Barrel Jog Switch, Constant Speed Barrel Drive, NEMA-12 Enclosure.

Optional Electrical Package for Tumble Barrel Cabinets includes: Blower on/off, 60 minute Auto Reset Timer, Blast Gun on/off, Sequence on/off, Barrel Jog Switch, Variable Speed Drive, NEMA-12 enclosure. Call for amperage requirements.

Cabinet Model	DCM-161 Mini Tumble Blast	BNP 160 Tumble Basket	2-Gal. Tumble Basket Option for Blast Cabinets
Cabinet Dimensions	12" W x 18" D x 24" H	29" W x 27" D x 60" H	
Door Size	12" W x 12" H	12" W x 12" H	
Chamber Capacity	2 gallons	2 gallons	2 gallons
Chamber Dimensions	8" Long x 9" Diameter	8" Long x 9" Diameter	8" Long x 9" Diameter
Basket Load Limit	25 lbs	25 lbs	25 lbs
Chamber Door Size	5-1/2" x 6"		n/a
Tumble Drive Motor	1/2 hp		2 rpm
Blast Gun	1 - #4 ZERO gun	1 - #5 ZERO gun	max. #5 gun
Air Consumption	17 cfm @ 60 psi	33 cfm @ 80 psi	max. 32 cfm @ 80 psi
Minimum Air Supply	1/2" NPT	1/2" NPT	1/2" NPT
Reclaimer	n/a	100 cfm	n/a
Dust Bag/Collector	150 cfm	100 cfm reverse-pulse	n/a
Electric Needed	115v/1ph/60hz	115v/1ph/60hz	115/1/60
Full Load Amperage	14.8		1.3

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