

CLEAN, SHOT PEEN, DEBURR, FINISH...  
**TUMBLE CABINETS**  
...AUTOMATICALLY



BNP-164 TUMBLE BARREL



www.clemcoindustries.com  
**ZERO**  
Blast Cabinets

**CAUTION**  
THIS DOOR MUST BE  
KEPT CLOSED WHILE  
MACHINERY IS IN  
OPERATION.

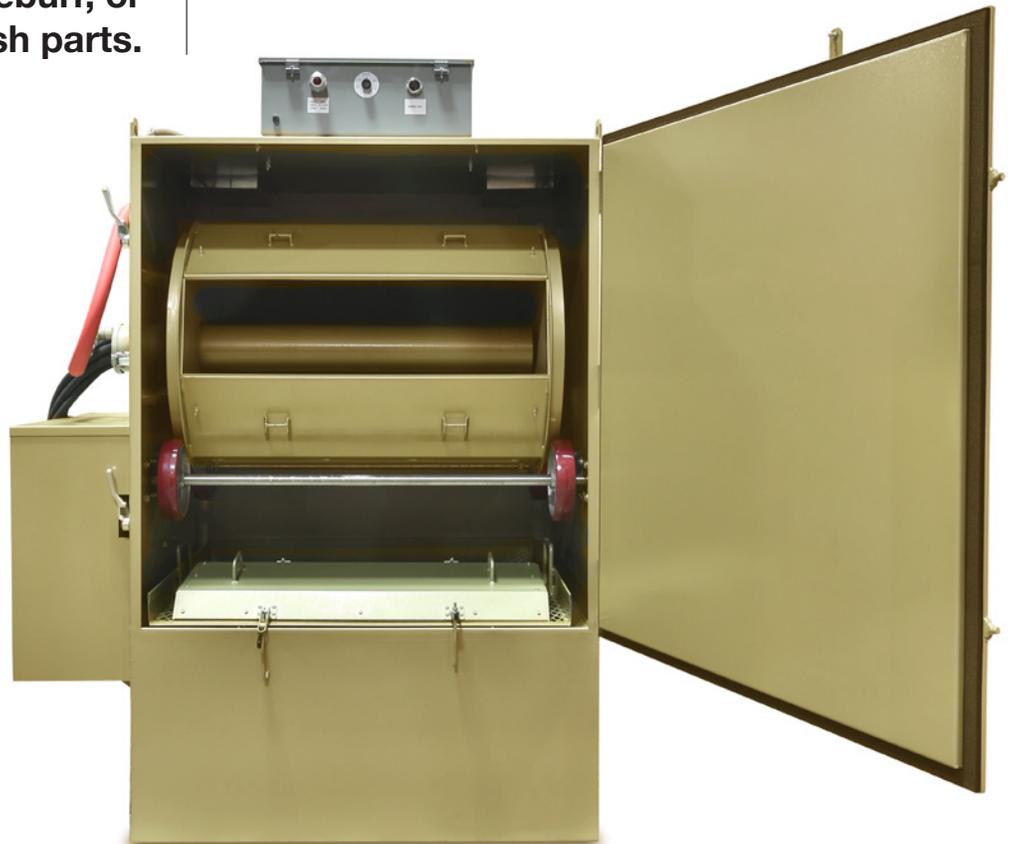
# Set It and Forget It

Save Labor, Save Time

**ZERO tumble blast cabinets deliver efficient, affordable batch processing to clean, shot 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.
- Shot peen springs, journals, bearings, valve stems, tools, and other products to enhance strength and reliability.
- Clean mold release and material buildup from molds.



**BNP-166 Tumble Barrel**

# Industrial Cabinet Systems

## 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 7 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.

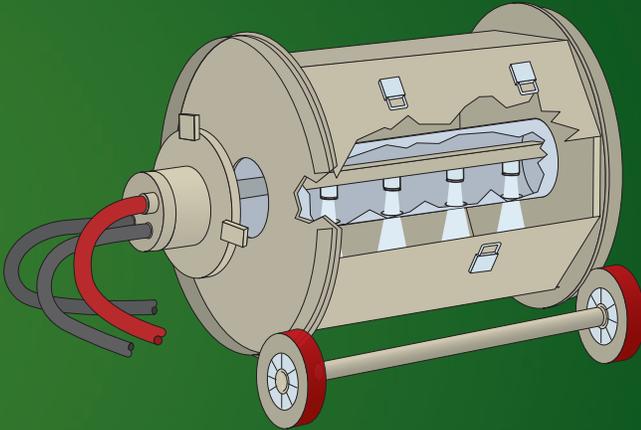


BNP 3.5 Tumble Belt

## Small-Capacity Tumble Baskets

### 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 or shot peen their surfaces. The inside barrel is comprised of replaceable rubber covered metal panels.



**BNP-164  
Tumble Barrel**

### 4-Gallon Tumble-Basket Blast Cabinet

Blast batches of parts up to 35 pounds with this high-production suction cabinet that provides consistent parts coverage and easily switches between media. The cabinet's detached 300-cfm power module with a reclaimer and a reverse-pulse dust collector, combined with the cabinet's compact footprint, allows versatile configurations for tight work areas. The machine's front-facing basket opening creates a cascading, as opposed to an up-down, tumbling movement of parts, which reduces part-on-part impingement. Fourteen-gauge steel construction and numerous other features make this a versatile, rugged, and efficient automated blast cabinet.



# Small-Capacity Tumble Baskets

## BNP-160 Tumble-Basket Blast Cabinet

A production suction-type blast cleaning machine with a small footprint, the BNP-160 fits nicely in the workflow 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 a reverse-pulse dust collector that 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 basket holds 2 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 a #5 ceramic nozzle and a #4 orifice, a 100-cfm exhaust fan to draw dust into the bag filter, and a manual reset 60-minute timer.



## 2-Gallon Tumble-Basket Option

Stop blasting holes in your gloves trying to clean screws and other small parts. Use this add-on kit to attach a perforated tumble basket to your cabinet's door. The kit's tumble basket holds up to 2 gallons (up to 25 pounds) and also includes the tumble-basket motor and a stationary gun mount, template, and mounting supports. This system uses a cabinet's existing blast gun, media recovery and reclamation system, and dust collector. For suction cabinets only.



### SPECIFICATIONS

**Chamber Capacity:** 2 gallons

**Chamber Dimen:**  
9" Dia., 8"L, 5.5" x 8" Door Opening

**Basket Load Limit:** 25 lbs

**Chamber Door Size:** n/a

**Tumble Drive Motor:** 2 rpm

**Blast Gun:** max. #5 ZERO gun

**Air Consumption:**  
max. 33 cfm @ 80 psi

**Minimum Air Supply:** 1/2 in. NPT

**Reclaimer:** n/a

**Dust Bag/Collector:** n/a

**Electric Needed:** 115v/1ph/60hz

**Full Load Amperage:** 1.3

# 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 cuft	3.5 cuft	7.0 cuft
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	4 - #5 ZERO Auto Guns	6 - #5 ZERO Auto Guns	6 - #6 ZERO Auto Guns
Air Consumption	132 scfm @ 80 psi	198 scfm @ 80 psi	288 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 CDC	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 cuft	2.0 cuft	3.0 cuft
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	66 scfm @ 80 psi	132 scfm @ 80 psi	198 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
CDC Collector	300 or 600 cfm	600 or 900 cfm)	900 cfm
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

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

**Variable-Speed-Drive Electrical Package 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.

Cabinet Model	4-Gallon Tumble-Basket	BNP-160 Tumble-Basket	DCM-161 Mini Tumble-Basket
Cabinet Dimensions	28" W x 41" D x 73" H	29" W x 27" D x 60" H	12" W x 18" D x 24" H
Door Size	20" W x 30.875" H	12" W x 12" H	12" W x 12" H
Chamber Capacity	4 gallons	2 gallons	2 gallons
Chamber Dimen.	13" Long x 16" Diameter	8" Long x 9" Diameter	8" Long x 9" Diameter
Basket Load Limit	35 lbs	25 lbs	25 lbs
Chamber Door Size	N/A	3/16" std.; 1/16" opt	5-1/2" x 6"
Tumble Drive Motor	1/4 hp	1 hp	1/2 hp
Blast Gun	2 - #5 BNP Guns	1 - #5 ZERO gun	1 - #4 ZERO gun
Air Consumption	64 cfm @ 80 psi	33 cfm @ 80 psi	17 cfm @ 60 psi
Minimum Air Supply	1 in. NPT	1/2 in. NPT	1/2 in. NPT
Reclaimer	300 cfm	100 cfm	n/a
Dust Bag/Colletor	300 cfm Reverse Pulse	100 cfm reverse-pulse	150 cfm Dust Bag
Electric Needed	115v/1ph/60hz	115v/1ph/60hz	115v/1ph/60hz
Full Load Amperage	9.5	13	14.8



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One Cable Car Drive • Washington, MO 63090 • Phone: 636.239.4300 • Fax: 800.726.7559  
info@clemcoindustries.com • www.clemcoindustries.com