



EMPIRE
ABRASIVE EQUIPMENT

Pro-Finish® Blast Cabinets

• Rugged • Versatile • Designed to Meet Your Surface-Finishing Needs



Rigid Double-Panel Door with Self-Adjusting Latch

extends service life and reduces leakage; flush construction eliminates media spills.

If your operations involve cleaning with chemicals, acid etching or dipping, liquid honing, wire brushing, sanding, deburring, grinding or peening, moving up to a Pro-Finish® cabinet will normally expedite work, improve quality and eliminate the environmental problems associated with chemical finishing.

Built for production blasting, these rugged cabinets enable you to perform a long list of tasks ranging from blending surface flaws to removing foreign matter, such as carbon from pistons, without affecting tolerances. By simply varying air pressure and blast media, you can perform almost any surface-finishing job more quickly and precisely than with alternative methods.

Pro-Finish cabinets can be specified with either suction or pressure blast systems—a pressure system

being the preferred choice for faster production and more precise control of media at both high and low operating pressures. In addition, they are available in seven sizes and loaded with standard features that reduce operating and maintenance costs.

Modular design, plus an extensive range of factory options, lets you select a system that's just right for your applications.

For additional information about our extensive line of Pro-Finish blast cabinets, go to the next page, contact Empire or your local Empire distributor, and visit our web site at www.empire-airblast.com

Pro-Finish® Options

- **Turntables** facilitate handling of heavy parts. (*Manual turntable with dolly and outside platform shown to right.*)
- **Additional nozzles or guns** (up to a total of two nozzles with pressure and up to four guns with suction) automate the blasting process when synchronized with powered oscillators and turntables.
- **Rotating basket** with timer speeds processing of smaller parts.
- **Fixed-gun holder** with adjustable arm frees both operator hands for parts blasting.
- **Extended-wear options** prolong equipment life while minimizing maintenance and downtime. Options include: rubber curtains in black or white; window protectors; heavy-duty, media-conveying duct; and DiCarb® or boron nozzles. Reclaimers can be upgraded with replaceable wear plates and urethane or Ultrawear linings.
- **Automatic bag shaker** frees operator for other tasks with bag-house dust collectors.
- **Fully automatic photohelic controls** purge dust from cartridge-type collectors without operator assistance.
- **Rubber safety mats**, placed around Pro-Finish cabinets, keep the immediate work area clean and reduce operator fatigue.



Standard Features

- Rubber, cloth-lined gloves
- Ergonomic glove rings with operator armrests
- 90-watt spotlights
- Dust-off gun
- Pneumatic foot-treadle control
- 14" x 22" safety-glass window
- General purpose filter
- Leveling bolts
- OSHA door switch
- 14-gauge construction
- 3/16" perforated floor with 1000-lb capacity
- Sure-Flo® media regulator (pressure systems)
- One-cubic-foot ASME pressure vessel (pressure systems)

General Specifications

Cabinet Model	2636	3648	3660	3674	4848	6060	7272
Interior Dimensions (DxWxH)*	26x36x30	36x48x36	36x60x36	36x74x36	48x48x36	60x60x44	72x72x62
Overall Dimensions, Cabinet Only (DxWxH)*	28x42x70	38x54x72	38x66x72	38x80x72	50x54x72	62x66x78	74x78x89
Door Opening (HxW)*	22x20	32x29	32x29	32x29	32x41	40x50	58x64
Standard Number of Doors	1	2	2	2	2	2	1
Ceramic Pressure Nozzle, Diameter	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Ceramic Suction Nozzle – Air Jet, Diameters	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"
Pressure – Suction Piping, Diameters	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"
Reclaimer Ventilation Rate (CFM)	400 or 600	400 or 600	600 or 900	900	600 or 900	900	900 or 1200
Exhaust Fan Motor, Horsepower	1	1 or 1 1/2	1 1/2 or 2	2	1 1/2 or 2	2	2 or 5

*Dimensions are nominal (inches).

BEST WARRANTY IN THE INDUSTRY

Three-years limited on parts

Empire Air-Blast Products

- A complete range of cabinets
- Robotic, turntable and in-line automation
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories

**NEVER USE SILICA SAND IN ANY
EMPIRE EQUIPMENT**

Information subject to change without notice.

Empire Abrasive Equipment

2101 W. Cabot Boulevard, Langhorne, PA 19047-1893

Call: 215.752.8800 • Fax: 215.752.9373

Email: Airblast@empire-airblast.com • Search: www.empire-airblast.com

ProFormer™ Blast Cabinets

- Consolidate all Systems in One Enclosure
- Move Easily between Work Areas
- Hook Up with Only Two Connections

Easily Transportable Enclosure contains all systems (see back), including blast, media reclamation and dust collection.

4652 Model Shown



Minihelic Gauge shows the pressure differential across filtration surfaces, prompting the operator to pulse-clean dust-collector cartridges.

Kleensweep™ directs airflow across window for improved visibility.

Ergonomic Glove Rings include armrests for operator comfort.

Safety Switch prevents accidental blasting when doors are open; complies with OSHA.

Media-Load Station inside cabinet door (see back) simplifies replenishment of abrasives.

Movable, Foot-Treadle Control permits easy access for forklift transport.

Empire ProFormer™ cabinets put it all together in a single assembly that's easy to move and simple to hook up. These cabinets require only two connections, air and electrical, and include features offered in our high-production Pro-Finish® line. Plus, they come in two sizes: the 3642 with interior working dimensions of 36 inches deep by 42 inches wide by 48 inches high and its bigger brother, the 4652, with working space of 46 inches by 52 inches by 48 inches.

Both include a tunable media reclaimer, capable of recycling a variety of abrasives, and a cartridge-type dust collector, monitored by a minihelic gauge, contained in the same enclosure as the cabinet, along with all electrical and pneumatic interconnections between components. Forklift slots are also provided, making these units easy to move between work stations.

The dust-collector filtration system is designed for easy maintenance. Filters can be pulse-cleaned with the

press of a button. When filters need replacement, they can be changed quickly and cleanly with a twist of two nuts. The filters slide into the cabinet where any loose dust falls into the cabinet, not onto the work floor.

Designed for production blasting, these versatile cabinets enable you to perform multiple tasks. You can clean orpeen and perform almost any finishing job in between by simply varying air pressure and blast media.

These rugged cabinets can be specified with either suction- or pressure-blast systems and a wide range of standard factory options.

For additional information about our ProFormer cabinets, go to the next page, contact Empire or your local Empire distributor, and visit our web site at www.empire-airblast.com

Standard Specifications

Cabinet Model	3642	4652
Overall dimensions (DxWxH), inches	72 x 44 x 82	82 x 54 x 82
Inside dimensions, cabinet (DxWxH), inches	36 x 42 x 48	46 x 52 x 48
Door sizes, left and right (DxH), inches	29 x 32	39 x 32
Ceramic nozzle (pressure), inches	3/16	3/16
Ceramic nozzle (suction-airjet), inches	5/16-5/32	5/16-5/32
Pipe string (pressure), inches	1	1
Pipe string (suction), inches	1/2	1/2
Pressure vessel (ASME certified), cubic feet	1	1

Other Features

- Ergonomic glove rings with operator armrests
- Rubber, cloth-lined gloves
- Two, 90-watt flood lights
- Dust-off gun
- Pneumatic foot-treadle control
- 14" x 22" safety-glass window with quick-change frame
- Air-pressure regulator and gauge
- Media regulator
- Leveling bolts
- 14-gauge construction on cabinet enclosure
- 3/16" perforated floor with 1,000- pound capacity
- 600 CFM ventilation

Standard Factory Options

- Three-phase and other electrical hookups
- Manual turntables
- Fixed-gun holders
- Rotating door-attached baskets
- Extended-wear components, including rubber curtains, window protectors, heavy-duty ducting, wear-resistant nozzles and reclaimer linings
- Automatic Sure-Flo® media regulator
- MG-78 CR exhaust valve
- Vibrating reclaimer screen
- Magnetic ferrous-particle extractor
- Photohelic gauge/activator for automatic pulse cleaning of dust-collector cartridges
- Rubber safety mats



Rolling turntables, designed to expedite loading and processing, are just one of many standard factory options available with ProFormer™ cabinets.

Dust Collection & Media Loading



ProFormer™ cabinets are equipped with cartridge dust collectors to facilitate a quick change of filtration surfaces. These two cartridges have a filtration area of 103 square feet each, providing a total of 206 square feet, and can be replaced in minutes through the cabinet door. As a result, loose dust falls into the cabinet rather than onto the work floor.

The standard minihelic gauge shows pressure differential across the filters, prompting the operator to activate the pulse-cleaning mechanism. With the photohelic upgrade, pulse cleaning is initiated automatically when the system detects a pre-set pressure differential.

Replenishing media is essentially fool-proof with ProFormer cabinets. They are specially designed to prevent clogging when abrasives are loaded through the cabinet floor.

Pressure (*middle*) and suction (*bottom*) configurations appear on the left.

BEST WARRANTY IN THE INDUSTRY

Three-years limited on parts

Empire Air-Blast Products

- A complete range of cabinets
- Robotic, turntable and in-line automation
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories

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Ergo-Blast Cabinets

- Reduce Operator Fatigue
- Extend Productive Working Hours



Tunable Reclaimer reduces media loss, cuts operating costs and improves finishing results.

Sound Dampener quiets incoming air flow used to clean viewing window.

Kleensweep™ improves visibility by creating an air stream across the viewing window that reduces dust buildup.

Pilot-Operated Pressure Regulator permits air-pressure control from the front of the cabinet.

Adjustable, Padded Armrest reduces operator fatigue and facilitates handling of parts.

Safety Sills prevent blast media from spilling into the working environment.

Recessed Lower Panel allows operator to blast from a seated position.

Foot-Treadle Rest adjusts for operator comfort.



Ergo-Blast cabinets accent the scope of Empire's Pro-Finish® line, the world's most rugged, reliable and versatile blast-cabinet system. By focusing on operator performance, Ergo-Blast cabinets give manufacturers an edge in many hands-on processes.

Designed for sit-down blasting, these ergonomic cabinets include a padded armrest, an elevated foot rest for treadle control, top-entry piping for less arm stress, a sound dampener to reduce noise and a front mounted pressure regulator — all aimed at improving operator comfort and performance during long, repetitive blast cycles.

In addition to supporting operators, Ergo-Blast cabinets include all Pro-Finish® features, such as a tunable media reclaimer which adjusts to recover a wide range of abrasives. You also have the choice of a pressure or suction blast system, three methods of dust collection, and many options to fit your specific application.

For more information about our Ergo-Blast cabinets, go to the next page, contact Empire or your local Empire distributor, and visit our web site at www.empire-airblast.com



General Specifications

Cabinet Model	ERGO 2636	ERGO 3648	ERGO 3660	ERGO 4848	ERGO 6060
Interior Dimensions (DxWxH)*	26 x 36 x 30	36 x 48 x 36	36 x 60 x 36	48 x 48 x 36	60 x 60 x 44
Overall Dimensions, Cabinet Only (DxWxH)*	28 x 42 x 70	38 x 54 x 72	38 x 66 x 72	50 x 54 x 72	62 x 66 x 78
Door Opening (HxW)*	22 x 20	32 x 29	32 x 29	32 x 41	40 x 50
Standard Number of Doors	1	2	2	2	2
Ceramic Pressure Nozzle, Diameter	3/16"	3/16"	3/16"	3/16"	3/16"
Silicon Carbide Pressure Nozzle, Diameter†	5/16"	5/16"	5/16"	5/16"	5/16"
Ceramic Suction Nozzle – Air Jet, Diameters	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"	5/16" – 5/32"
Pressure-Suction Piping, Diameter	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"	1" – 1/2"
Reclaimer Ventilation Rate (CFM)	400 or 600	400 or 600	600 or 900	600 or 900	900
Exhaust Fan Motor, Horsepower	1	1 or 1 1/2	1 1/2 or 2	1 1/2 or 2	2

*Dimensions are nominal (inches). †Standard on FaStrip® models

Popular Options

- Cartridge & bag-house dust collectors capture 99% of all particles one micron or larger, normally permitting recirculation of air to the workplace
- Extended-wear options prolong equipment life while minimizing maintenance and downtime. Options include: rubber curtains in black or white; window protectors; heavy-duty, media-conveying duct; and DiCarb® or boron nozzles. Reclaimers can be upgraded with replaceable wear plates and urethane or Ultrawear linings.
- Automatic bag shaker frees operator for other tasks with bag-house dust collectors.
- Fully automatic photohelic controls purge dust from cartridge-type collectors without operator assistance.
- Rubber safety mats, placed around Ergo-Blast cabinets, keep the immediate work area clean and reduce operator fatigue.
- Turntables facilitate handling of heavy parts. (Manual turntable with dolly and outside platform shown below.)



Standard Features

- Sit-down configuration
- Padded exterior armrest with swivel control
- Glove rings with interior armrests
- Elevated foot rest for control treadle
- Top-entry blast hose
- Front-mounted pressure regulator
- Media-catch trays underneath doors
- Kleensweep™ for improved visibility
- Sound attenuator
- Rubber, cloth-lined gloves
- 90-watt spotlights
- Dust-off gun
- Pneumatic foot-treadle control
- 14" x 22" safety-glass window
- General purpose filter
- Leveling bolts
- OSHA door switch
- 14-gauge construction
- 3/16" perforated floor with 1000-lb capacity
- Sure-Flo® media regulator (pressure systems)
- One-cubic-foot ASME pressure vessel (pressure systems)

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Three-years limited on parts

Empire Air-Blast Products

- A complete range of cabinets
- Robotic, turntable and in-line automation
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories

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FaStrip® Blast Cabinets

- Strip Delicate Surfaces Fast
- Eliminate Hazardous Chemicals

Dust Collector contributes to a clean working environment by capturing fines and other unwanted debris.

Kleensweep™ improves visibility by creating an air stream across the viewing window that reduces dust buildup.

Tunable Media Reclaimer reduces media costs by recovering good abrasives for reuse. Vibrating screen keeps lightweight media moving through reclaim system. Magnetic separator filters out damaging ferrous debris.

Automatic Sure-Flo® Media Regulator, combined with **MG-78 CR Exhaust Valve**, assures smooth, consistent abrasive flow.

Empire's FaStrip® cabinets provide a safe, efficient alternative to chemical stripping and cleaning of parts. Designed specifically for use with plastic media, FaStrip cabinets strip coatings from metallic and composite materials quickly and thoroughly without adverse effects on substrates. Materials on which these plastic-media cabinets create the necessary etch for superior bonding of new coatings include Alclad and anodized aluminum, titanium, steel, Kelvar, fiberglass, carbon graphite and magnesium.

Built for non-stop production, our rugged FaStrip cabinets combine a tunable reclaimer with a highly efficient dust collector to improve finishing results and reduce media costs. These units also incorporate Empire's patented Sure-Flo® Media Regulator to assure smooth, consistent flow of plastic abrasives. All FaStrip cabinets can be ordered with a variety of factory options designed to meet your particular application requirements.

For additional information about our full line of FaStrip blast cabinets, go to the next page, contact Empire or your local Empire distributor, and visit our web site at www.empire-airblast.com



High-intensity lighting, a venturi blast nozzle with lightweight blast hose, and abrasion-resistant operator gloves boost productivity.



Our patented automatic Sure-Flo media regulator works in concert with an MG-78 CR exhaust valve and vibrating screen to assure smooth, consistent flow of plastic media.

FaStrip® Cabinet Specifications

MODEL DESCRIPTION	PART NUMBER	NUMBER OF DOORS	DUST COLLECTION	BLOWER MOTOR	SHIPPING WEIGHT
FaStrip 2636 PRC-6	102130	1 standard	DCM-200	1½ hp	1380 lbs
FaStrip 2636 PRC-6, CDC	102159	1 standard	CDC-6	1½ hp	1495 lbs
FaStrip 2636 PR-6	140959	1 standard	—	—	660 lbs
ERGO FaStrip 3648 PRC-6	121921	2 standard	DCM-200	1½ hp	1600 lbs
ERGO FaStrip 3648 PRC-6, CDC	121951	2 standard	CDC-6	1½ hp	1900 lbs
FaStrip 3648 PR-6	140950	2 standard	—	—	775 lbs
FaStrip 3648 PRC-6	103129	2 standard	DCM-200	1½ hp	1500 lbs
FaStrip 3648 PRC-6, CDC	103159	2 standard	CDC-6	1½ hp	1800 lbs
ERGO FaStrip 3660 PRC-9	123921	2 standard	DCM-200A	2 hp	2075 lbs
ERGO FaStrip 3660 PRC-9, CDC	123951	2 standard	CDC-9	2 hp	2195 lbs
FaStrip 3660 PR-9	126951	2 standard	—	—	1245 lbs
FaStrip 3660 PRC-9	126129	2 standard	DCM-200A	2 hp	1975 lbs
FaStrip 3660 PRC-9, CDC	126159	2 standard	CDC-9	2 hp	2095 lbs
FaStrip 3674 PRC-9	128129	2 standard	DCM-200A	2 hp	1970 lbs
FaStrip 3674 PRC-9, CDC	128159	2 standard	CDC-9	2 hp	2290 lbs
ERGO FaStrip 4848 PRC-9	122921	2 standard	DCM-200A	2 hp	1800 lbs
ERGO FaStrip 4848 PRC-9, CDC	122951	2 standard	CDC-9	2 hp	2050 lbs
FaStrip 4848 PR-9	140951	2 standard	—	—	965 lbs
FaStrip 4848 PRC-9	104129	2 standard	DCM-200	1½ hp	1696 lbs
FaStrip 4848 PRC-9, CDC	104159	2 standard	CDC-9	1½ hp	1816 lbs
ERGO FaStrip 6060 PRC-9	125921	2 standard	DCM-200A	2 hp	2074 lbs
ERGO FaStrip 6060 PRC-9, CDC	125951	2 standard	CDC-9	2 hp	2193 lbs
FaStrip 6060 PR-9	140952	2 standard	—	—	1249 lbs
FaStrip 6060 PRC-9	105129	2 standard	DCM-200A	2 hp	1975 lbs
FaStrip 6060 PRC-9, CDC	105159	2 standard	CDC-9	2 hp	2094 lbs
FaStrip 7272 PRC-9	127901	1 standard	DCM-200A	2 hp	3000 lbs
FaStrip 7272 PRC-12	127923	1 standard	DCM-200B	5 hp	3100 lbs

Standard Cabinet Features

- Industrial magnetic particle separator
- Grounding wire on blast hose
- Automatic Sure-Flo® Media Regulator
- MG-78 CR exhaust valve
- Vibrating screen within cyclonic reclaimers
- ¾" venturi blast nozzle with lightweight blast hose
- Rubber, cloth-lined gloves
- 90-watt spotlights
- Dust-off gun
- Pneumatic foot-treadle control
- 14" x 22" safety-glass window
- General purpose filter
- Leveling bolts
- OSHA door switch
- 14-gauge construction
- ¾" perforated floor with 1000-lb capacity
- One-cubic-foot ASME pressure vessel

Factory Options

- Sight glass for checking media level
- Manual and powered turntables
- Pneumatically powered vertical doors
- Manometer
- Automatic bag shaker for dust collector
- Sound attenuator/damper dust collector
- Sound attenuator/damper for cabinet
- Three-cubic-foot ASME pressure vessel for extended blast cycles
- Rotating basket attachment for automated parts processing
- Operator static strap
- Conductive safety matting
- White rubber curtains for improved, long-lasting visibility

BEST WARRANTY IN THE INDUSTRY

Three-years limited on parts and labor

Empire Air-Blast Products

- A complete range of cabinets
- Robotic, turntable and in-line automation
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories

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Econo-Finish® Blast Cabinets

• Economical Systems for Light-Duty Stripping, Cleaning and Finishing



Empire's inexpensive Econo-Finish® blast cabinets feature a unique front-access door to simplify loading of parts, save floor space and speed finishing operations.

Designed for light-to-medium cleaning and surface-finishing jobs, these economical cabinets combine sturdy, 14-gauge steel construction with the features you need to perform a wide range of finishing tasks. All Econo-Finish cabinets are equipped with a foot-treadle blast control for ease of operation, an external media-regulation device, quick-change safety glass and a dust-collection system.

In addition, you can select from upgraded features such as production-quality blast guns, a pressure regulator with gauge, long-life blast nozzles and a high-capacity dust collector that extends operating intervals between clean-outs. Our DC-16 and DC-30 dust collectors feature a cartridge filter with 16-gallon and 30-gallon dust capacities and built-in silencers.

Econo-Finish cabinets are available in two basic configurations: models with two-piece, swing-down and flip-up doors for maximum interior access (shown above) and an even more economical unit with a swing-down door only. Models with two-piece doors can be specified with a standard upgrade package designed to extend usage and maximize production.

To find out more about the best bargain in abrasive blast cabinets, go to the next page, contact Empire or your Empire distributor, and visit our web site at www.empire-airblast.com

Starter Systems

Empire's model EF-2430B blast cabinet provides an great opportunity for first-time blast-finishers to appreciate the capabilities of abrasive blasting.

The basic design of this cabinet is the same as other Econo-Finish models, but to further reduce costs, a single drop-down door is used.



EF-2430B shown

Compressed Air Requirements (SCFM)

Operating Pressure	40 psi	60 psi	80 psi	100 psi
MH-4 (1/4" nozzle, 3/32" air jet)	7	10	12	15
MH-2A (1/4" nozzle, 1/8" air jet)	12	17	21	26

To determine the SCFM your compressor can produce, use the following guideline: 1 horsepower = approximately 4 SCFM of air.

Different nozzles and air-jet sizes are available to broaden blast patterns, increase finishing rates or conserve compressed air. Consult your distributor and the air-requirement chart for appropriate nozzle and compressor sizes.

Before ordering, consult your local Distributor for application considerations that may affect the performance of your system.

Specifications by Model Number

(Dimensions in inches)	EF-2430B	EF-2436A	EF-2448A
Model Number	EF-2430B	EF-2436B	EF-2448B
Part Number	114013	115011	116011
Overall Dimensions (DxWxH)	24 x 30 x 65	24 x 36 x 65	24 x 48 x 65
Interior Dimensions (DxWxH)	24 x 30 x 23	24 x 36 x 23	24 x 48 x 23
Door Opening (WxH)	29 x 14	35 x 23	47 x 23
Door Type	Single	Double	Double
Weight (B Series)	215 lbs.	235 lbs.	275 lbs.
Weight (A Series)	—	285 lbs.	325 lbs.

Specifications by Series

(Dimensions in inches)	"B" Series (basic unit)	"A" Series (upgrade)
Cabinet construction	Heavy, 14-gauge steel	
Floor capacity	200 lbs.	
Gloves	Rubber, cloth lined, 8" diameter	
Blasting system	Suction, foot treadle	
Piping string	3/8"	
Nozzle material	Ceramic	
Media regulator	SAR-3	
Blast gun	MH-4	MH-2A
Pressure regulation/gauge	Option	Standard
Window safety glass	14 x 22 with quick-change frame	
Lighting	Floodlight, 90 watts	
Dust collector	DC-16 (16 gal.)	DC-30 (30 gal.)
Filter area	22 square feet	55 square feet
Collector dimensions (Diameter x Height)	16 x 22	16 x 39
Fan silencer/dBA	Standard/85	
Motor/Fan	0.98 hp/133 CFM	
Electrical system	115V, 50-60 Hz, Single Phase	

Partial listing of options available for all models: OSHA Safety door switch, Safety matting, Special electricals, Pressure regulator, Air gauge, Di-Carb™ and Boron nozzles.

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