

# Replaceable-Back Elbow

**Replace just the back for a fraction of Price & Time  
for Low-Abrasion Applications**

## Typical applications:

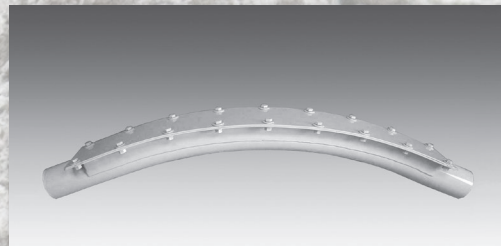
Abrasive dust, industrial vacuum systems, plastics

## Benefits

- Quick targeted changeout vs whole elbow
- Save \$ on maintenance labor, product loss, & downtime
- Can fit any application
- Easily replaces existing elbows
- Doesn't change line flow
- Excellent lead times

## Additional Specs & Info

- Any diameter, degree, and Centerline Radius
- Carbon steel or stainless steel
- Pipe (I.D.) or tube (O.D.)
- Plain ends, flanged, grooved, or other specified ends
- Special orders are welcome
- Not recommended for food applications due to the open voids that can collect material



Made in USA

1-888-235-1732

[www.progressiveproductsinc.com](http://www.progressiveproductsinc.com)

[sales@progressiveproductsinc.com](mailto:sales@progressiveproductsinc.com)

**PROGRESSIVE**  
PRODUCTS INC.  
The Elbow People™



## What Customers Say:

"We have been doing business with Progressive Products for years and have always had quick turn on quotes and great customer service from all departments." - Ryan W.

"The quality of these products are exceptional and have improved our convey reliability and cost. This company is highly recommended!" - Troy Conway

## Our Products:

Since 1979, our extremely durable and highly abrasion resistant products have offered exceptional performance in almost any application. Designed to remain in your system much longer than other elbows, they eliminate unwanted maintenance costs, loss of material, and system downtime.

The Replacable-Back elbow is an excellent choice for lower-abrasion applications. The elbow lowers the installation time and replacement cost for high-change elbows, thus reducing loss of material and system maintenance time, improving system efficiency and raising production.

We fabricate the replacable-back using a tube pipe or elbow, thus eliminating the need for transitions that cause turbulence. Typical construction is 10GA material. Thicker metal and AR plate are available.

## COST SAVING WORKSHEET (typical example)

AVG Time to Replace Initial Elbow (bare or replaceable): Same | MAINTENANCE Labor Cost hr w/ benefits: \$35

AVG Time to Replace ongoing:

- 1 hour for regular elbow x 3 Maintenance personnel = 3 Labor hrs = \$105 Total Labor Cost to replace
- 1/2hr for replaceable back x 2 Maintenance personnel = 1 Labor hr = \$ 35 Total Labor Cost to replace

+ \$1000 Revenue Loss During Production Shutdown (will be reduced by 50% to \$500 with replaceable savings)

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	BARE Elbow	Replaceable-Back
=Non-Elbow Cost for Elbow replacements (Initial #1 + #2-5)	\$ 5,515	\$ 3,245
+Initial Elbow Cost for Replacement #1	\$	\$
Ongoing Cost per replacement	same as initial	\$
+ ELBOW or Replaceable Back Cost ongoing for Replacements #2-5:	\$	\$

= True Cost for each Elbow method (initial + replacements 2-5):	\$ _____	\$ _____
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\*This assumes fully staffed & available Maintenance personnel isn't an issue, if it is an issue then advantages of having less frequent Elbow replacements are even more important and cost effective than this worksheet shows