

## It's All About Service Life

- Last up to 4 times as long as traditional Nitralloy barrels
- More resistance to abrasive fillers
- More resistance to corrosive volatiles

X-800® bimetallic barrels have proven that they far outlast nitrided barrels in processing rigid PVC, other vinyl materials and plastic-wood composites. X-800® barrels are lined with a composite consisting of superhard tungsten carbide particles uniformly dispersed in a nickel alloy matrix.



## High quality

X-800® barrels meet or surpass OEM specifications for dimensions, straightness and parallelism. A skilled production team works exclusively on twin barrels. Our twin barrel manufacturing operation is certified as meeting ISO 9001:2008 requirements.

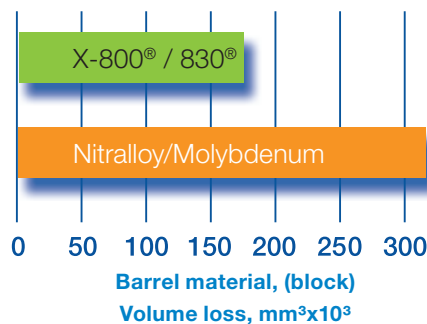
## Screw compatibility

Screw-barrel compatibility is especially critical in counter-rotating twin-screw extrusion because of very high screw-to-barrel loading and the potential for adhesive and abrasive wear at the interface.

X-830® screw surfacing is the ideal companion to X-800® barrels. It too is a hard, durable tungsten carbide composite specially formulated for maximum compatibility with X-800® barrels.

We work closely with leading extruder manufacturers and processors on testing various screw coatings to insure compatibility between our barrels and their screws.

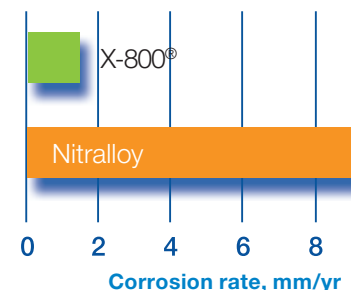
## Fights Abrasive Wear



**Abrasive test equipment: Falex Block on Ring Tester. Test Method: ASTM G 77.**

Blocks made of barrel alloys were tested against rings made of screw hardfacing materials. The Nitralloy barrel/molybdenum hardfacing combination showed nearly double the wear of the X-800®/X-830® pair, but the difference would be even greater if the test had been continued beyond the standard 20,000 cycles. The wear resistance of X-800® tungsten carbide composite is consistent throughout its depth. In Nitralloy, by contrast, hardness and wear resistance progressively decrease with depth into the

## Combats Corrosive Wear



**Corrosive medium is 20% HCl.**

X-800® barrels provide far more resistance to corrosion by HCl. That's a clear indication of its resistance to aggressive by-products of the thermal degradation of PVC or halogen-containing additives.

### Relining or new

BMS can serve your needs for longer-lasting X-800® bimetallic twin barrels two ways: by relining your worn barrel or by supplying a completely new barrel. In relining a worn nitrided barrel, the first step is to bore out the nitrided lining. Using our spin-casting process and proprietary joining methods, we produce a new twin liner with a bimetallic tungsten carbide composite inlay and fit it into the bored out casing. Each job gets a perfect custom fit. This is critical to insure proper heating and cooling of the plastic during processing.

Relining is highly cost-effective because the casing usually does not require replacement. Second-time and subsequent relining jobs cost less than first-time relines because there is no need to bore out the worn liner. We simply press out the old unit and replace it with a new X-800® liner.

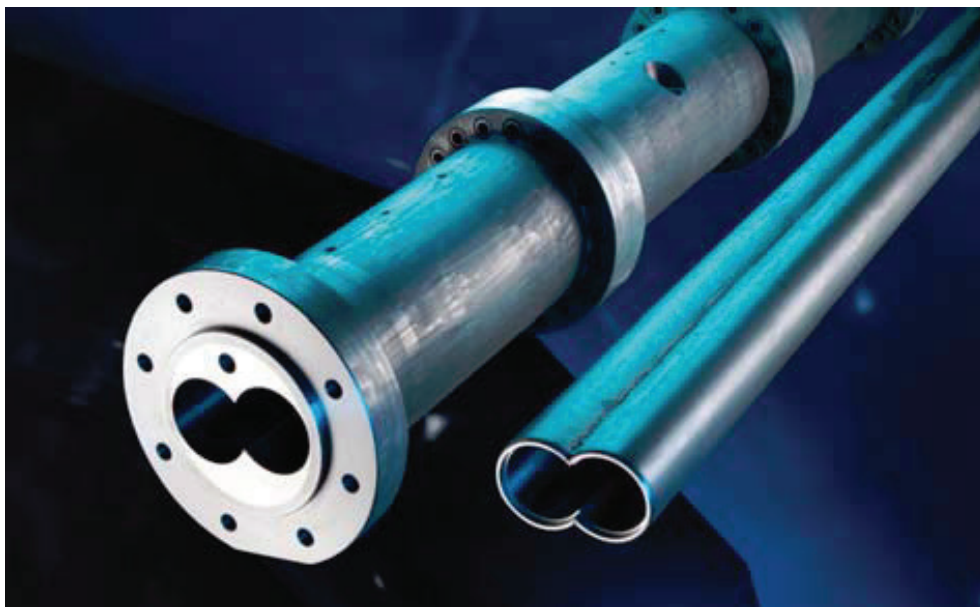
### Let's get started

Now is the time to reduce your ownership costs for twin-screw extruders. For more information or a quotation, contact your BMS representative today.

Please also contact BMS to meet your requirements for other high-quality extrusion processing components including single-screw barrels, high-performance single screws, screen changers and gear pumps.



*Made right. Our highly skilled production and quality team makes sure that every X-800® barrel meets or surpasses OEM specifications for dimensions and straightness.*



*Relining job uses new liner at right as an insert for an existing bored-out casing.*

Retrouvez toutes nos références sur notre catalogue en ligne et toutes les fiches techniques sur [www.bmsfrance.eu](http://www.bmsfrance.eu)



Découvrez nos vidéos explicatives sur notre chaîne Youtube

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