

**FLSMIDTH  
CEMENT**



# B3000™ V2 COMPRESSOR BLADES

Carbon graphite composite blades for Ful-Vane™ Compressors  
– lighter, stronger, lasts longer

## KEY BENEFITS

- Lasts up to 4x longer than alternate blades
- Reduced operating costs, oil consumption and wear
- Extends the life of the internal compressor components
- Maximum continuous operating temperature up to 350°F
- Reduced blade breakage
- Prevents compressor damage in the unlikely event of blade breakage
- 4-year protection warranty against blade defects

# LOW MAINTENANCE, HIGH PERFORMANCE

Compressor blades work hard. ‘Strong’ isn’t strong enough. At best, blade breakage is a costly maintenance item – at worst, it leads to catastrophic cylinder failure. To achieve true reliability, you need to think stronger.

That’s why we use carbon graphite composite to make the B3000 V2 compressor blades. With significantly greater strength and reduced weight, the B3000 V2 blades have up to four times the wear life of alternative blade materials under optimal compressor operating conditions. And, in the unlikely event of blade breakage, we guarantee the blades will not damage the cylinder bore. If they do, we’ll replace the cylinder free of charge.

We don’t just think B3000 ‘Black Velvet’ compressor blades are better than alternate blade types – their superiority has been proven in the field:

- Our blades reduce cylinder bore corrugation by up to 50% compared to other blade materials – dramatically lowering maintenance time and costs.
- The carbon graphite composition is highly abrasion-resistant and allows for a maximum continuous operating temperature of up to 350°F (177°C).
- Deformation and failure are unlikely due to the strong material properties.
- The B3000 blades do not absorb moisture, so they avoid “swelling”, and have been engineered to withstand optimal storage conditions guaranteeing an extended shelf life

B3000 V2 carbon graphite blades are available for all Ful-Vane™ compressors, exchange compressors, and cylinder assemblies.

*“We were astonished at the extraordinarily low wear results on the B3000 V2 blades, which were tested in one of our compressors over a period of 2 years, 9 months.*

*We now use the B3000 V2 blades in all of our compressors. Like all cement plants we can’t afford unexpected downtime. With results like these we are absolutely convinced of the reliability of these blades.”*

**- Robert Jones III, Maintenance Manager,  
Buzzi Unicem, Stockertown Pennsylvania  
Cement Plant**

## TEST RESULTS

We wanted to test the resistance to wear of our B3000 compressor blades under real-world conditions over an extended time period. The blades were installed in a local cement plant and tested quarterly under normal site operating conditions. The results were impressive:

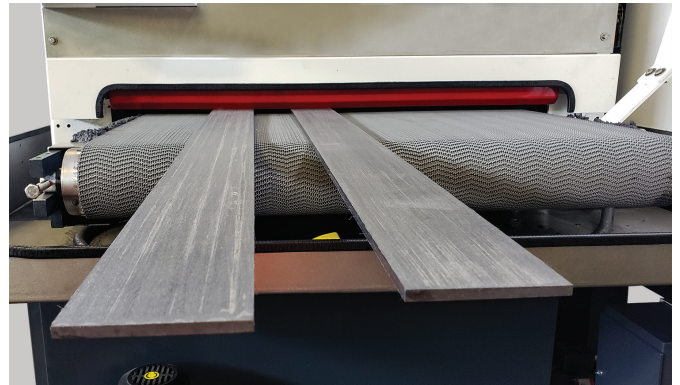
**June 21, 2016:**

Factory/New measurements of the blades = 3.750 in.

**March 27, 2019:**

Final measurement of the most worn blade = 3.725 in.

Just 0.025 in. of wear was presented after over 16,000 hours of operation and following the recommended lubrication rates. There was plenty of life left before the blades reached the recommended replacement level.



B3000™ blades are machine-finished to uniform thickness.



Ful-Vane™ Air Compressor cutaway showing rotor with B3000™ blades