



TRIZACT DIAMOND CLOTH BELTS

Trizact Diamond Cloth Belts, manufactured by the 3M Company, represents the “next generation” in abrasive technology. They combine the ability to predictably produce accurate part geometry traditionally associated with bonded wheels with ease of use, speed and finish consistency of 3M abrasive belts. Plus, they typically require no dressing, resulting in less downtime and increased productivity.



Featuring 3M's exclusive microreplicated abrasive technology, Trizact Diamond Cloth Belts are constructed with diamond-filled, three dimensional structures, which are bonded to a durable, waterproof cloth backing. As the Trizact structure wears, fresh abrasive is continually exposed to the workpiece, resulting in a more consistent, predictable cut throughout the life of the belt. In addition to making the grinding process less dependant on operator skill, it also allows the process to be automated more easily, further reducing labor costs and improving productivity.

Trizact Diamond Cloth Belts are designed for use on hard-to-grind materials, including: Thermal Spray Coatings, Ceramics, Carbides, Chilled Iron, and much more. The most common uses for the Trizact Diamond Cloth Belt are:

- Stripping old thermal spray coatings
- Coarse grinding
- Medium grinding
- Fine grinding
- Initial polishing

By continually exposing fresh abrasive material to the workpiece, the Trizact Diamond Cloth Belts effectively “dress themselves,” resulting in consistent and efficient stock removal - without chatter - at low grinding forces throughout the life of the belt.

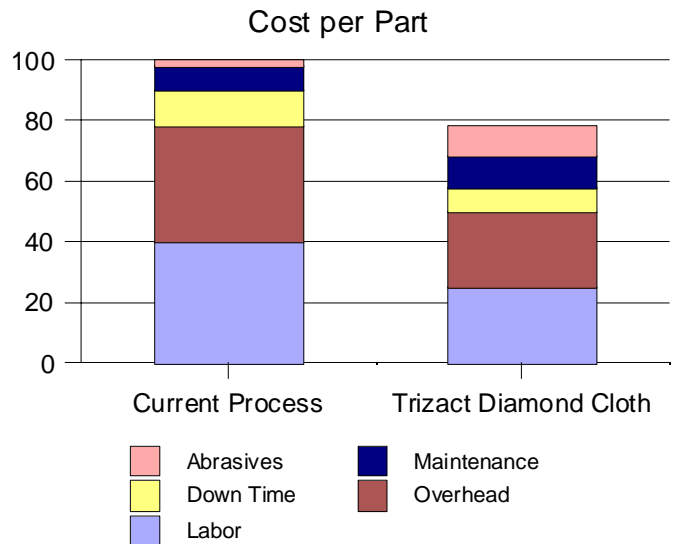
DIAMOND TRIZACT AVAILABLE GRADES	
Micron	Grit
20	600
40	320
70	200

Lower grinding force is also a critical consideration in the production of lightweight/thin-walled components, such as aircraft parts, where high grinding forces can cause deflection during grinding - resulting in parts that are out-of-spec.

By significantly reducing processing time and eliminating downtime for dressing, switching to Trizact Diamond Cloth Belts can result in significant savings - in most cases, at least 20% per part.

Trizact Diamond Cloth Belts can be successfully used in any operation where metal bonded Flexible Diamond belts are currently used. To optimize the capabilities of this product, it is best used on a belt grinder or the conversion of a diamond wheel grinder is suggested. Trizact Diamond Cloth Belts combine the speed, consistency, and ease of use of belts with the predictable dimensioning traditionally associated with bonded wheels.

3M has partnered with a company which can not only prove the process of the grinding wheel to belt conversion, they can also perform the conversion on your grinding wheel machine.



PSI maintains an inventory of the popular Trizact Diamond Cloth belt sizes and grades. Custom sizes are available upon request.

To discuss how the Trizact Diamond Cloth belts can work for you or for information about grinding wheel-to-belt conversions, please contact the PSI Office.