Rapid Gasket

LaserQC®

Hi-Tech Gaskets employs a Virtek LaserQC® 1200 machine. The LaserQC® assists in reverse engineering, quality inspection/control and statistical process control. It captures over 500 data points a second, while maintaining a tolerance within ± 0.05mm (0.002”). Our drafting department can manipulate the scanned data to remove flaws and optimize the tolerances for production. The file can then be exported directly to our flashcutter or water jet for rapid gasket production.

Materials:

**Rubber and Plastic Sheet**

Red Rubber (SBR), Chloroprene, Silicone, White Nitrile, Nitrile, Highly Saturated Nitrile, Cork/Nitrile, Fluorocarbon, EPDM, Neo-Nylon, PTFE, expanded PTFE, UHMW-PE, Vegetable fibre/plant fibre, Gum Rubber

**Thickness:** 1/64", 1/32", 1/16", 1/8", 3/16", 1/4"  
**Sheet Size:** 5' x 66'

**Composite Non-Asbestos**

BA-U, BA-50, BA-CF, BACF-4000

**Thickness:** 1/64", 1/32", 1/16", 1/8"  
**Sheet Size:** 3' x 3', 5' x 5', 5' x 15'

**Composite Flexible Graphite**

Grafilit® SF, Grafilit® SL, Grafilit® SP

**Thickness:** 1/64", 1/32", 1/16", 1/8"  
**Sheet Size:** 5' x 5'

**Metal**

Mild Steel, Stainless Steel 304, Stainless Steel 316L, Aluminum, Copper

**Sheet Size:** 4' x 8', 5' x 10'
Equipment

Flashcutter
Hi-Tech Gaskets’ flashcutter is capable of utilizing CAD renderings to quickly produce gaskets in rubber, plastic and composite materials. The flashcutter’s surface area can accommodate material up to 5’ x 10’ (1550 mm x 3050 mm).

Gaskets are cut through a rapid vertical reciprocating motion. The cutting motion produces a cleaner finished part, avoiding compression marks found on die-cut gaskets. The flashcutter’s vacuum surface holds the sheet material in place preventing the movement of parts during production. This enables the flashcutter to maintain exceptional tolerances during production.

Waterjet
The Omax waterjet further expands our manufacturing capabilities. The waterjet cuts the standard composite and rubber materials, but also allows us to manufacture metal gaskets up to 12” thick. The waterjet working surface area is 60” x 135”. Gaskets that require a larger work surface area can be produced in a dovetail style.

Die Cut
Hi-Tech Gaskets utilizes clicker press to produce die cut gaskets. Dies are manufactured locally and stored in house.

Die Cut - Round Gaskets - up to 13”
Die Cut - Oblong Gaskets - up to 13” x 20”

Hand Cut
For cost effective small runs, Hi-Tech Gasket produces hand cut gaskets. Dimensional capabilities include:

Hand Cut:
- Round Gaskets - up to 36”
- Oblong Rubber Gaskets - up to 48” x virtually endless
- Oblong Non-asbestos Gaskets - up to 60” x 180”