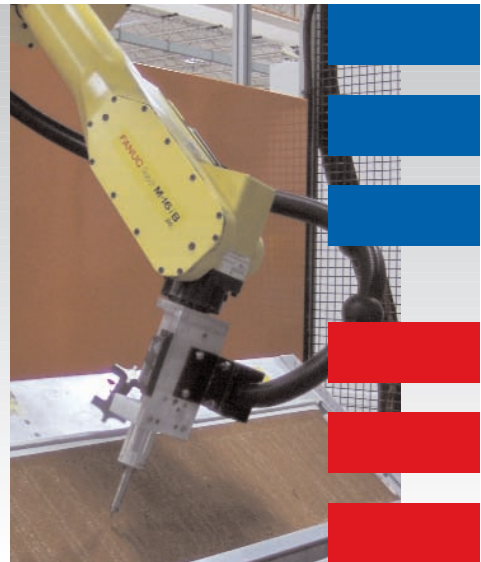


KMT Robotic Solutions FREQUENTLY ASKED QUESTIONS

KMT's Ultrasonic Knife Trimming Technology is worth asking about!



What type of products are suitable for ultrasonic knife trimming?

Ultrasonic Knife Trimming is an ideal process for trimming shoe soles, carpets, headliners, automotive HVAC and instrument panel skins, among others.

What materials can be trimmed on an ultrasonic knife trimming system?

According to Branson Ultrasonics, KMT's partner in automated ultrasonic knife trimming, any product that can be cut by hand using a razor knife is a good candidate for ultrasonic knife trimming. Materials that are typically cut with an ultrasonic knife include: polyurethane foams (both open and closed cell), leathers, woven and non-woven fabrics, carpets, cured and uncured rubber, thermoplastic films, clothing, kevlar, fiberglass prepregs, neoprene, Nomex and phenolic honeycomb cores, among others.

Why chose ultrasonic knife trimming over traditional "cold" knife trimming?

An ultrasonic knife will produce clean cuts more quickly and with less friction than a cold knife, which can cause soft materials to wrinkle.

How do varying knife frequencies relate to the trimming process?

For trimming purposes, ultrasonic knives vibrate at frequencies ranging from 20 - 40 kHz. The lower frequencies are suitable for thicker, harder materials, whereas higher frequencies are best for foil and thin films.

KMT Robotic Solutions.
Creating Value Through Automation.



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