

simatec medical drive system – deliver drugs via microneedle



Microneedles have the potential to revolutionize drug delivery, diagnostics, and cosmetic procedures, as they are painless, non-invasive, and can significantly improve patient compliance.

They also minimize damage and injury, leading to fewer infections and needlestick injuries. Furthermore, self-administration by patients can reduce costs compared to in-clinic administration by healthcare professionals.

Hollow microneedles are a type of microneedle that have a hollow center, which allows for the delivery of drugs or other substances through the needle into the skin or other biological membranes. The hollow center of the microneedle can be used to transport substances that would not be possible with solid microneedles, such as larger molecules or particles, or to deliver substances to a specific layer of the skin or tissue.

The small simatec drive system is therefore perfect for producing the required pressure. This is because the simatec drive system has a high level of precision and can generate consistent and precise pressure, which is crucial for delivering drugs or other substances through microneedles. Additionally, the simatec drive system is compact and can easily be integrated into microneedle-based systems, making it a practical choice for use in medical and research applications.

In summary, the small size, silent, precision, and customization capabilities of the simatec drive system make it an ideal choice for hollow microneedles, providing a reliable and efficient solution for delivering drugs and other substances through microneedles.