In contrast to commercially available injection systems the size of connecting tube and pump of the IBMT chip is adapted to the volume to be injected. Once filled, the chip can be used to perform several hundreds of injections. The injection volume can be adjusted and controlled very precisely.

The injection chip can be easily used in combination with a micro robot. When using such a combination performing micro-injections requires much less dexterity than with state of the art injection systems.

Semiconductor technology is used for chip fabrication. This allows batch fabrication which leads to low prices per chip which are in the range of several Euros.