
PREFILLED SYRINGE IN INTERNATIONAL MARKET

Parenteral administration of pharmaceutical products is one of the most popular methods used to produce quick onset of action, and it being the second most applied route of drug delivery after oral drug administration, at the same time approximately 50.4 % of medication errors in the operating room are the result of drug syringes and preparation errors, according to American Association of Nurse Anesthetists.

All that led to a demand for advanced parenteral drug-delivery systems that offer convenience and ease of administration which can be accomplished with prefilled syringe.

Prefilled syringes are disposable syringes that are already loaded with the substance that needs to be injected. A prefilled syringe contains a single dose of medication to which a needle has been fixed by the manufacturer.

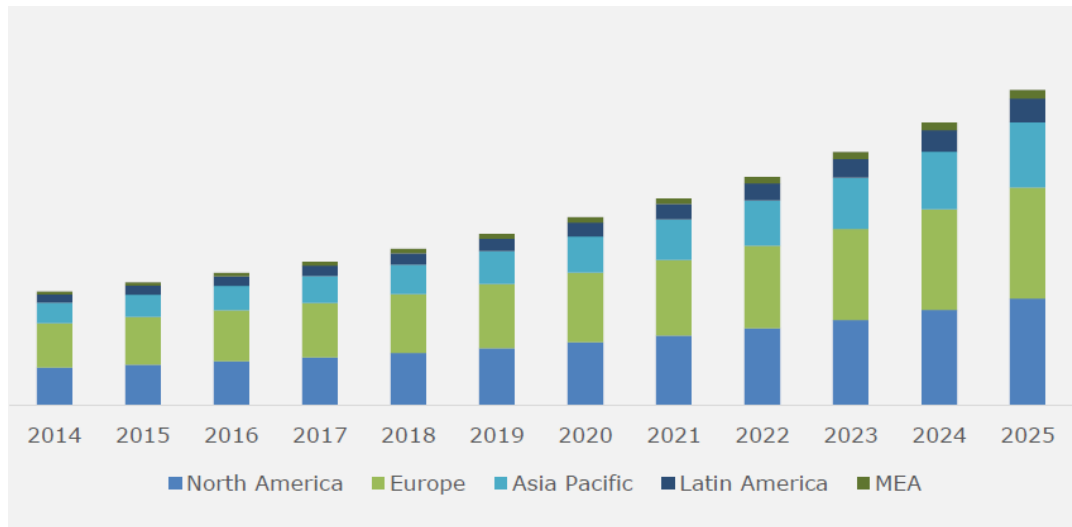


Prefilled syringe market:

The use of prefilled syringes for parenteral administration of medications has grown substantially, The global prefilled syringes market size was valued at USD 8.6 billion in 2016 and is projected to expand at a CAGR¹ of 11.2% in 2025 ^(1, 2018)

Prefilled syringes region market is bifurcated into North America, Europe, Asia Pacific, Latin America, and MEA, and it is expected to increase in a different rate at the next few years, according to the chart below ^(2, 2019):

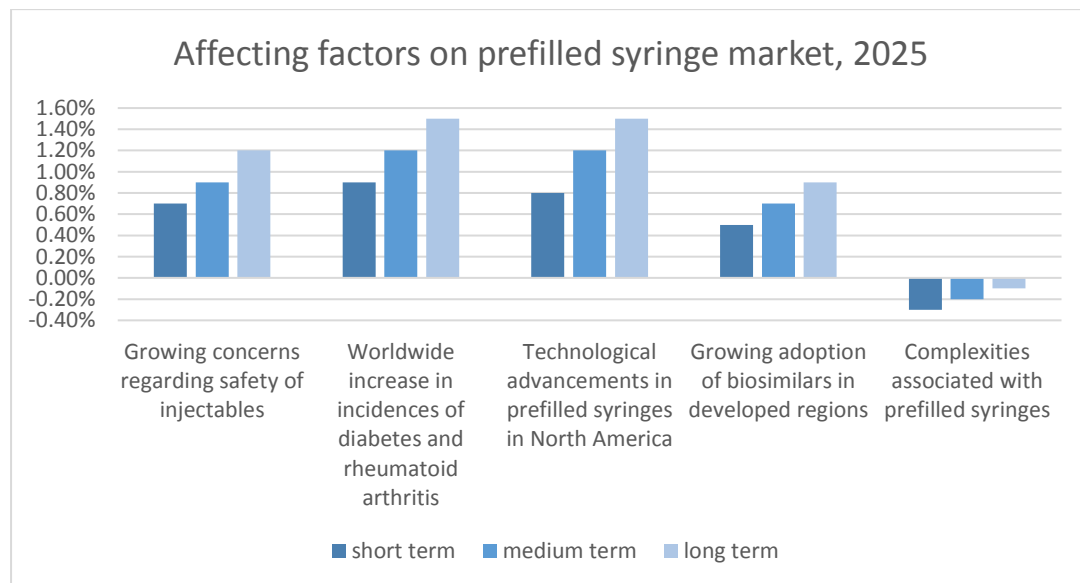
1 Compound annual growth rate



Global Prefilled Market Variables:

Growing demand for safety and easy-to-use drug delivery devices are the key growth-driving factors for the market, but the growth of the market is also negatively affected by restraints factor.

This chart shows the factors affecting the prefilled syringe market ^(2, 2019):



1. (2018). *Prefilled syringes market analysis and segment forecast to 2025*. USA: Grand view research.

2. (2019). *Prefilled syringes market report,2025*. USA: Global market insights



Figure 2 Aseptic preparation line

According to the previous data, AFAQ encourages its customers to enter the prefilled syringe market, and they will receive all assistance and support from AFAQ, considering that AFAQ portfolio is offering integrated production lines for aseptic products, which needs specific purity requirements that can only be achieved with great technical skills and experience.



Figure 1 Prefilled syringes Filling machine

There are many features with AFAQ aseptic production line:

- Optimum segregation.
- Effective SIP\CIP system.
- SCADA system.
- Validation protocols (DQ, IQ, OQ)
- Acceptance Tests (FAT, SAT)



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