

# Beamex Case Story

**Abdi İbrahim Pharma  
Turkey**



Paperless calibration system – the choice of an environmentally conscious pharmaceutical company.

**beamex**

# WITH 2700 QUALIFIED, PROFESSIONAL AND EXPERT PERSONNEL, ABDI İBRAHİM IS THE LARGEST EMPLOYER IN THE TURKISH PHARMACEUTICAL SECTOR.

Over the course of its history, which dates back to 1912, Abdi İbrahim has always been a company which carries the strength of its past into the future. Abdi İbrahim, which deploys progressive and innovative approaches in medicines and products aimed at human health, for the benefit of the medical world and society, is nowadays a more quickly growing, preferred and reputable global player in the market for medicines in Turkey.

From 2003 to 2007, Abdi İbrahim was market leader in the Turkish pharmaceutical sector in terms of both turnover and total packaging sales. In 2007, annual production was 179 million packages, and turnover 805 million USD. The 212 various products of the company that has a production capacity of 250 million packages per year, are distributed in 23 countries. With 2700 qualified, professional and expert personnel, Abdi İbrahim is the largest employer in the Turkish pharmaceutical sector, while also having the broadest sales and commercial team in this sector.

R&D at Abdi İbrahim: more than 100 qualified employees work at the Abdi İbrahim R&D department, which has a technological quality level in its sector comparable with that in more developed countries. The international Good Manufacturing Practices (GMP) and Good Laboratory Practices (GLP) established by the World Health Organisation, are applied in this work carried out with state-of-the-art technology.

The calibration department is located at the production facilities in Bahçeşehir.

## The situation

The task of the calibration department lies in calibration of the instruments and equipment used at the production facilities, compilation of the necessary certificates, and archiving these certificates. The production facilities are an integrated location in the true sense of the word, where incoming raw materials are converted into end products ready for use. Due to the great diversity of our products, our production plant is divided into a number of departments. These are Raw Materials storage, Weighing, Solids Production, Solids Packaging, Liquids Production, Liquids Packaging, Ointment Production, Syrup Production, Drops Production, Quality Control Laboratory and R&D. Tablets, powders and capsules are produced at a permanent production location, while alcohol and sorbitol storage locations work exclusively with Ex-proof materials.

The basis for the company's environmental policy lies in the initial recovery at source, rendering suitable for recycling and processing of all kinds of residual products formed in the production plant, using efficient technology and means and deploying natural sources with attention for high yield and low energy consumption. Environmental consciousness is upheld at the highest level, together with the personnel, at each stage of the production process. The modern wastewater purification plant at the Abdi İbrahim production site is automated to constantly operate at the highest possible yield. At plants where natural gas is used, special filters are fitted in the air conditioning systems to capture 99.99% of pollutants. Abdi İbrahim has become the pride of Turkish Industry by winning two prizes in the Energy Effectiveness in Industry Project competition organised by the Ministry of Energy and Natural Sources.

# The company foresees great advantages in terms of time saving, thanks to the orderly data grouping offered by the CMX Calibration Software, along with many other features of the software.

## The solution and main benefits

The calibration work is essential to Abdi İbrahim. The production facilities make use of the GMP rules at all times. The fact that the medicines directly affect people's health serves to increase the responsibility of the work even further. Each phase of the production process is therefore controlled by means of an electronic monitoring system, which tracks and registers the ambient temperature and the humidity and pressure values. It is therefore essential that the instruments measuring the accuracy of the production conditions are extremely accurate. This is the reason why calibration is so relevant. The data acquired by the calibration department serves as a reference for the question of whether or not the production work can be continued. Experienced technicians who have successfully completed professional training for that purpose carry out the calibration work. All reference instruments used in the calibration procedures are part of the international calibration chain. The calibration department has been highly successful in passing the inspections by both the Turkish Ministry of Health and the licensing enterprises. This is a sign that the calibration work is carried out according to international standards.

Approximately 4000 calibrations are carried out annually by 4 calibration technicians, who fall under the responsibility of the Director of Energy and Auxiliary Services.

With calibration, the main target is to ensure that production takes place within the framework of the set conditions. That is only possible using certified calibrations carried out by authorised and professional calibration personnel. In the production facilities for medicines, calibration is essential rather than just necessary. The calibration department is capable of meeting all the calibration needs that are apparent in the

factory, which in turn saves time and money for the company. Most of the instruments requiring calibration are temperature, humidity, pressure, force, conductivity, losses, weighing, transmission and level instruments.

Calibrations are tracked by using Beamex® CMX Calibration Software, and it goes without saying how important this calibration software is for a healthy calibration process. The planning covers both systems and machines, and it is essential that production department is first consulted prior to calibration, in order to make an effective planning schedule. Any large-scale work is scheduled to be performed during shut-downs, which the factory considers necessary each year. The documentation work is carried out by calibration technicians, and has always involved the use of large volumes of paper. By switching to the CMX, great paper savings have been realised, the first great advantage being the possibility of e-mailing copies of the certification to users. The company's final target is to stop using paper where possible. This is also another aspect that demonstrates the environmental consciousness of Abdi İbrahim.

Abdi İbrahim acquired the CMX Calibration Software in 2007 and validated in 2008 before taking it into use. The training and software validation was provided by Beamex, after which the users were able to make much more effective use of the program and all its options.

Important aspects in Abdi İbrahim's choice for CMX were the fact that the company has enjoyed a good business relationship with Beamex for many years, not to forget the after-sales technical support offered by the company, the fact that CMX is used by globally active companies, that it adheres to FDA requirements and, last but not least, that fact that it is a validated program. The CMX was purchased with the Pocket PC and Report Design options. The CMX's Pocket PC user-interface is ideal for manual calibration work, and transfer of certificates to the Pocket PCs ensures a very practical and efficient way of working. The grouping and extensive filter feature offered by CMX allows easy access to the data. Thanks to the Report Design Option, the company has been able to adapt the program to their needs. Abdi İbrahim has established and designed the format of their certificate, and determined various report formats for all kinds of different work. The company foresees great advantages in terms of time saving, thanks to the orderly data grouping offered by the CMX Calibration Software, along with many other features of the software.

# Case Story in Brief

## Customer profile

Abdi İbrahim Pharma

Turkey

### The situation

Abdi İbrahim, which deploys progressive and innovative approaches in medicines and products aimed at human health, for the benefit of the medical world and society, is nowadays a more quickly growing, preferred and reputable global player in the market for medicines in Turkey. With 2700 qualified, professional and expert personnel, Abdi İbrahim is the largest employer in the Turkish pharmaceutical sector, while also having the broadest sales and commercial team in this sector. With calibration, the main target is to ensure that production takes place within the framework of the set conditions. In the production facilities for medicines, calibration is essential rather than just necessary. Having a paperless calibration system is also an important aspect for this environmentally conscious company.

### Solution

- Beamex® CMX Calibration Software (with Pocket PC Option)
- Beamex® Professional Services: Training
- Beamex® Professional Services: Validation

### Main benefits

- Paperless calibration system
- Safe and certified calibration process that meets regulatory requirements
- Time-savings due to streamlined calibration procedures
- Possibility to adapt calibration certificate and report templates to meet specific needs

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