

### Life Sciences/Pharma

#### ALTEN ADDED VALUE

Creation of referential cycle timesheet, and also for each iteration in order to provide the client a graphical view of the performance

An updated package for the client

Documentation of the upgrade

#### KEY TOOLS & TECHNOLOGIES

Refrigerated automatic storage machine for blood samples

TwinCAT 2/TwinCAT 3

SAFETY Beckhoff

User application developed in C#  
Microsoft Office

#### KEY DATA

Team Size: 2 FTE

Time: Since April 2018

Location: Europe

Time & Material

## CYCLE TIME OPTIMIZATION

#### OVERVIEW

IMA Group is a world leader in the design and manufacture of automatic machines for the processing and packaging pharmaceuticals, cosmetics, food, tea, and coffee. After IMA Group acquired Komax Systems, IMA Medtech became the constructor and distributor of the SRA Machine initially developed by Komax for the Medical analysis laboratory (ROCHE). In this context, ALTEN had to understand and control the initial program to allow optimizations and future upgrades for blood typing activities.

#### PROJECT DETAILS

- Study and realization of a new machine version allowing SLS mode
- Cycle time optimization
  - > Optimization of the trajectories
  - > Synchronization of the operations
  - > Optimization of the waste monitoring
  - > New barcode reader (configuration and software)
- Upgrade the hardware to allow SLS mode
  - > Replacement of the CPU, drives, and motors
  - > Hardware configuration of the new material
  - > Program translation from TwinCAT 2 to TwinCAT 3
  - > Integration of the safety mode with SLS
  - > Debug and commissioning
  - > Writing the user documentation
- Upgrade user application

