

September 2019

Strictly confidential



Thor - POS Solution



Current issues of sequential units

- Calibrations needed
- Purges needed
- Cleaning needed
- Product dripping
- Product drying
- Product with air bubbles
- Pumps wear and tear
- Low accuracy and repeatability
- High maintenance costs



Breakthrough



Innovation



CURRENT ISSUES



- Calibrations needed
- Purges needed
- Cleaning needed
- Product dripping
- Product drying
- Product with air bubbles
- Pumps wear and tear
- Low accuracy and repeatability
- High maintenance costs

ALFA SOLUTION



- No calibrations
- No purges
- No cleaning
- No product dripping
- No product drying
- No product with air bubbles
- No pumps wear and tear
- Perfect accuracy and repeatability
- Low maintenance costs

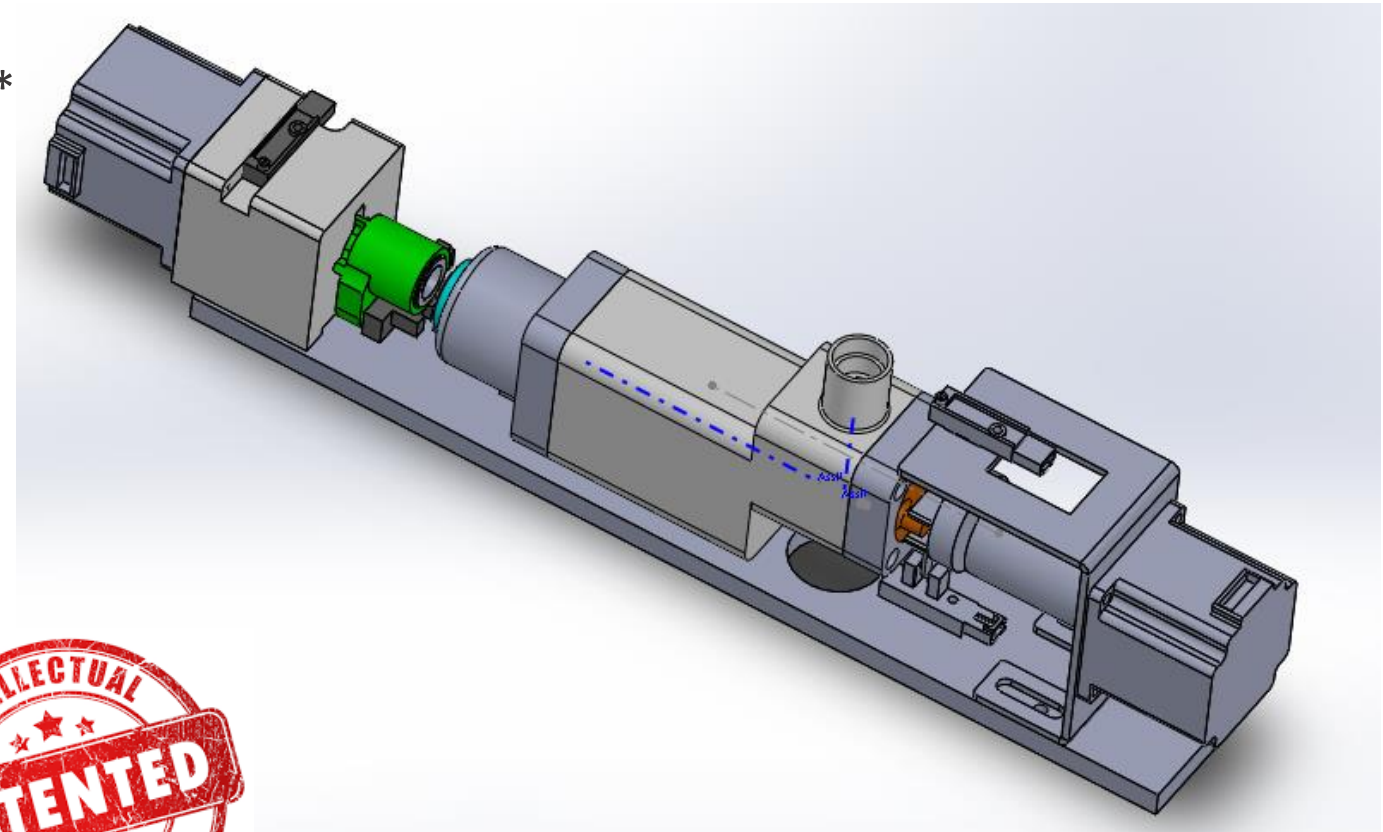
Alfa Integrated Solutions



Patented Colorants Pump

- Variable volumes pump
- Minimum drop up to 0.0077cc *
- Flow rate 0.25 l/min
- Dynamic performance valve
- 100% product recirculation

- No purge needed
- No dripping
- No air bubbles
- No wear and tear
- No calibration
- No cleaning needed



* Values affected by the nature of the colorants and their rheological properties

Patented Semifinished Product Pump

Pump 0.25 lt/min
Minimum drop 0.038cc



Pump 3 lt/min
Minimum drop 0.4cc



- Seal free piston pump
- No physical wear and tear
- No calibration needed
- Purge air before dispensing
- Scalable dispensing technology
- Dispense VOC FREE, water and solvent based
- Dispense semifinished products and bases
- 3 years warranty





THOR

the smallest paint factory in the world: dispense colors from 100 cc samples to 20 lt cans in only 0,5 sqm

Quality and color accuracy and reproducibility

Tradition: *Tinting System*

- Works with traditional bases, dispenses color from 100 cc to 20 l
- Using your formulas you will get the same quality and color from 100 cc to 20l

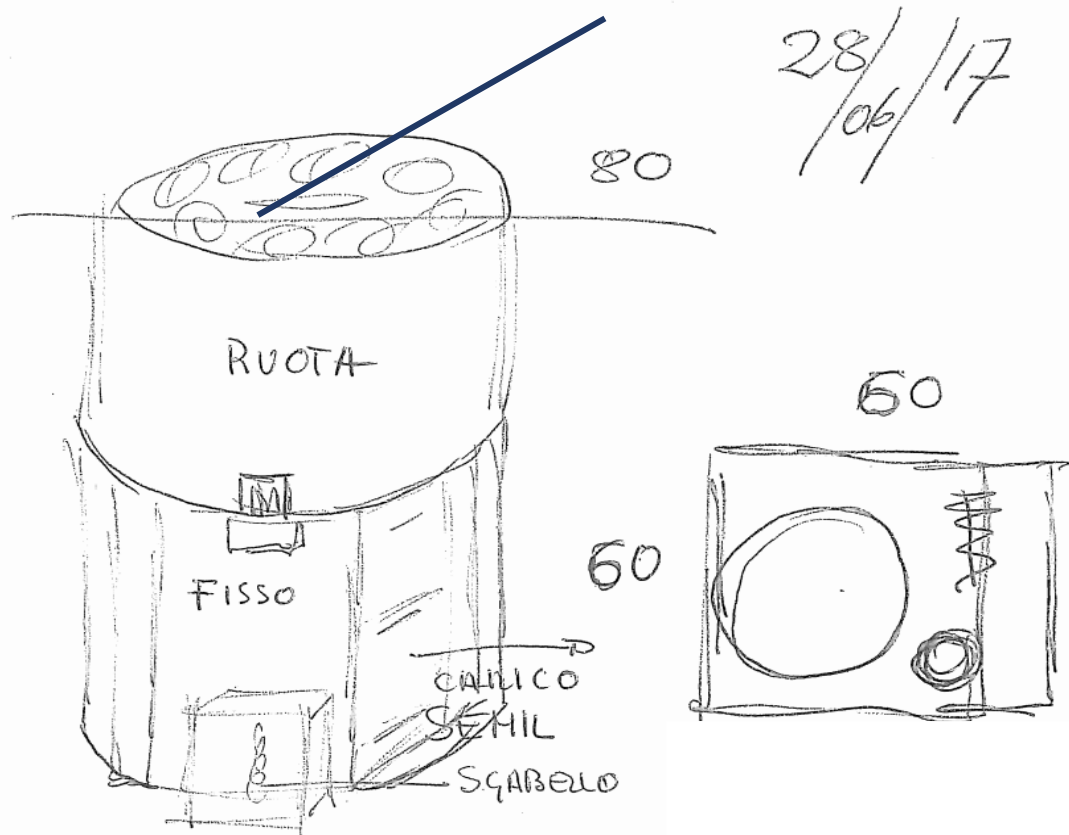


Innovation : *Master System*

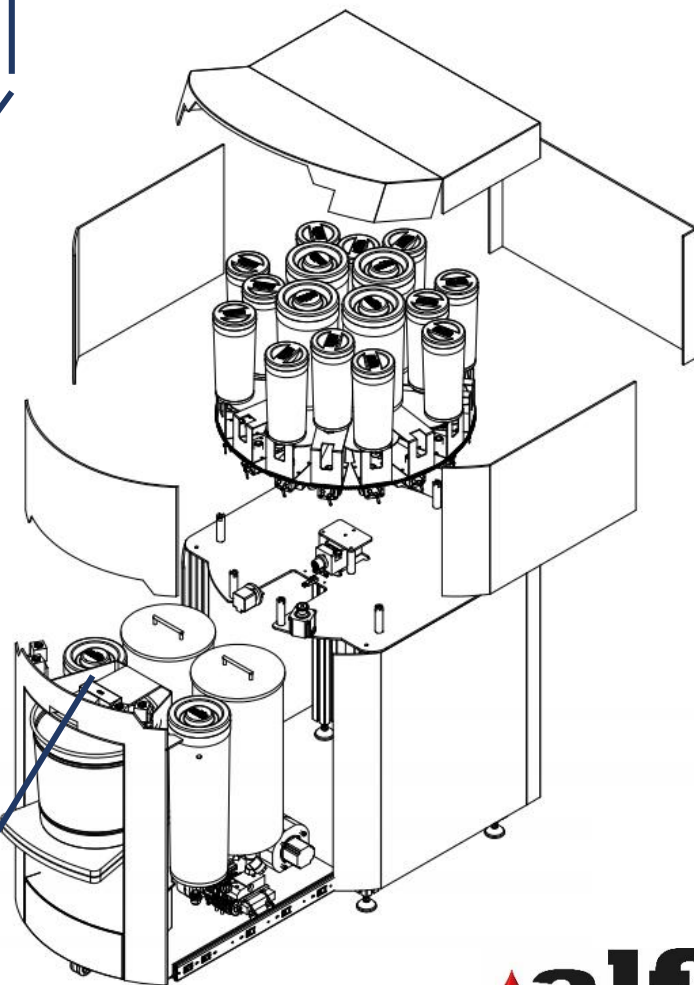
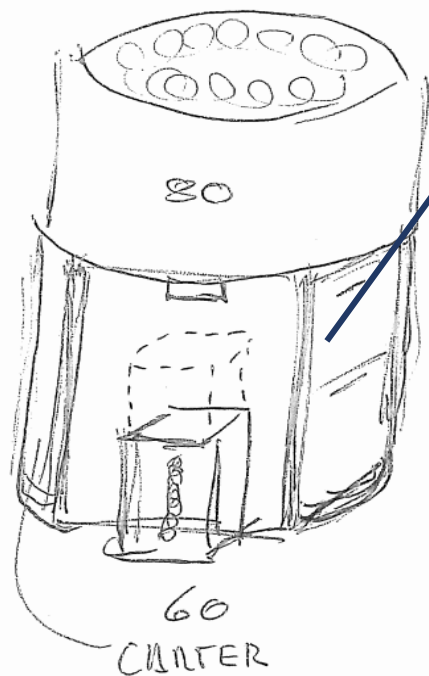
- Using the master system and its components you will get the same quality and color from 100 cc to 20 l

Concept

Sequential dispensing flow for colorants

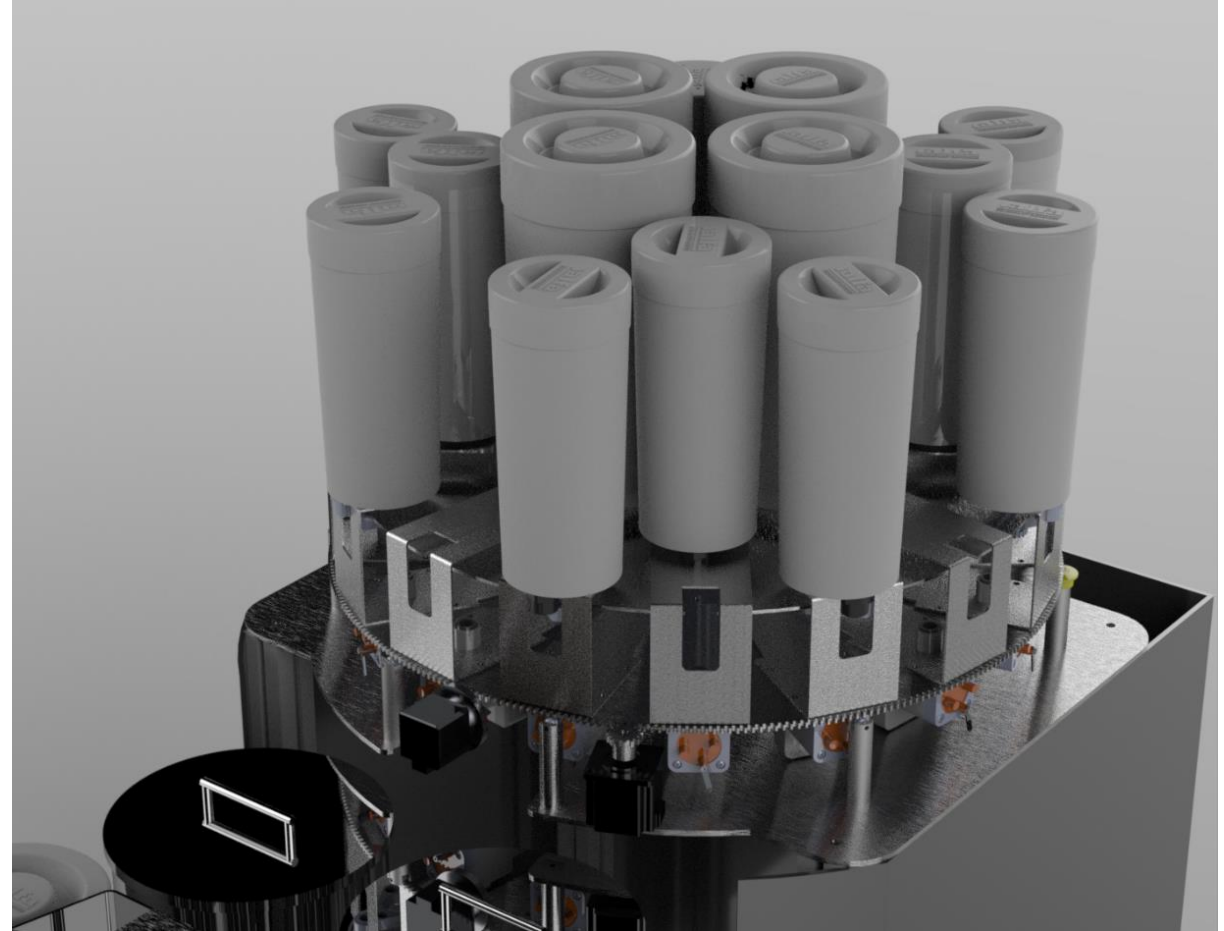
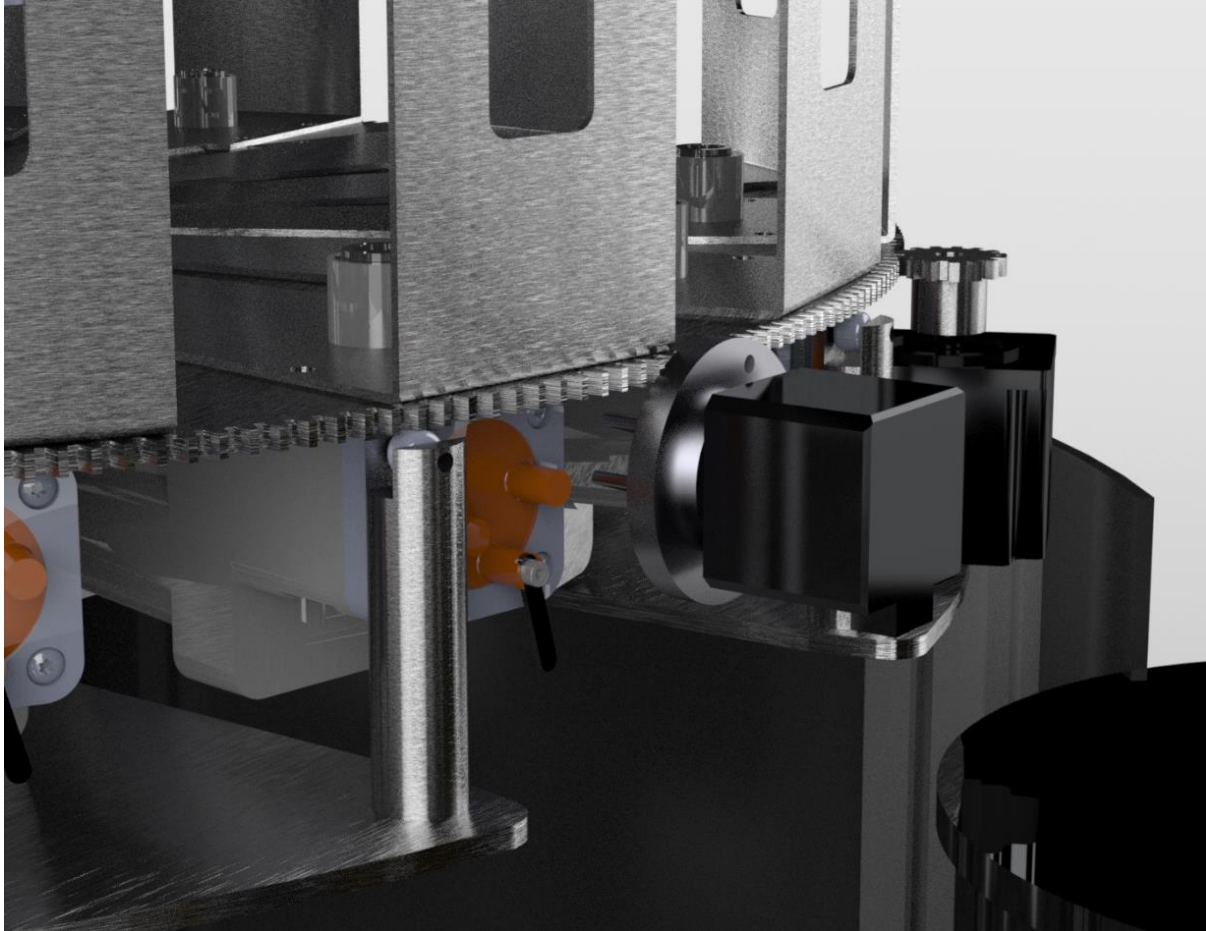


Simultaneous dispensing flow for semifinished products



Modular concept

Colorants module technology



Modularity

Thor Tinting



Thor Master



Thor Tinting configuration



- Colorants module:
 - Up to 12 x 1,5lt
 - Up to 4 x 3lt

Thor Master configuration



- Colorants module:
 - Up to 12 x 1,5lt
 - Up to 4 x 3lt
- Master module:
 - Up to 3 x 12lt
 - Up to 2 x 6lt

Option to produce 100cc samples



Colorants module:

- Up to 16 colorants

Bases module:

- Up to 5 bases

Tester holder device



Towards Industry 4.0

INTERNET OF THINGS



All our products are intelligent units capable of collecting, sending and receiving information in a bidirectional way.

CLOUD PLATFORMS



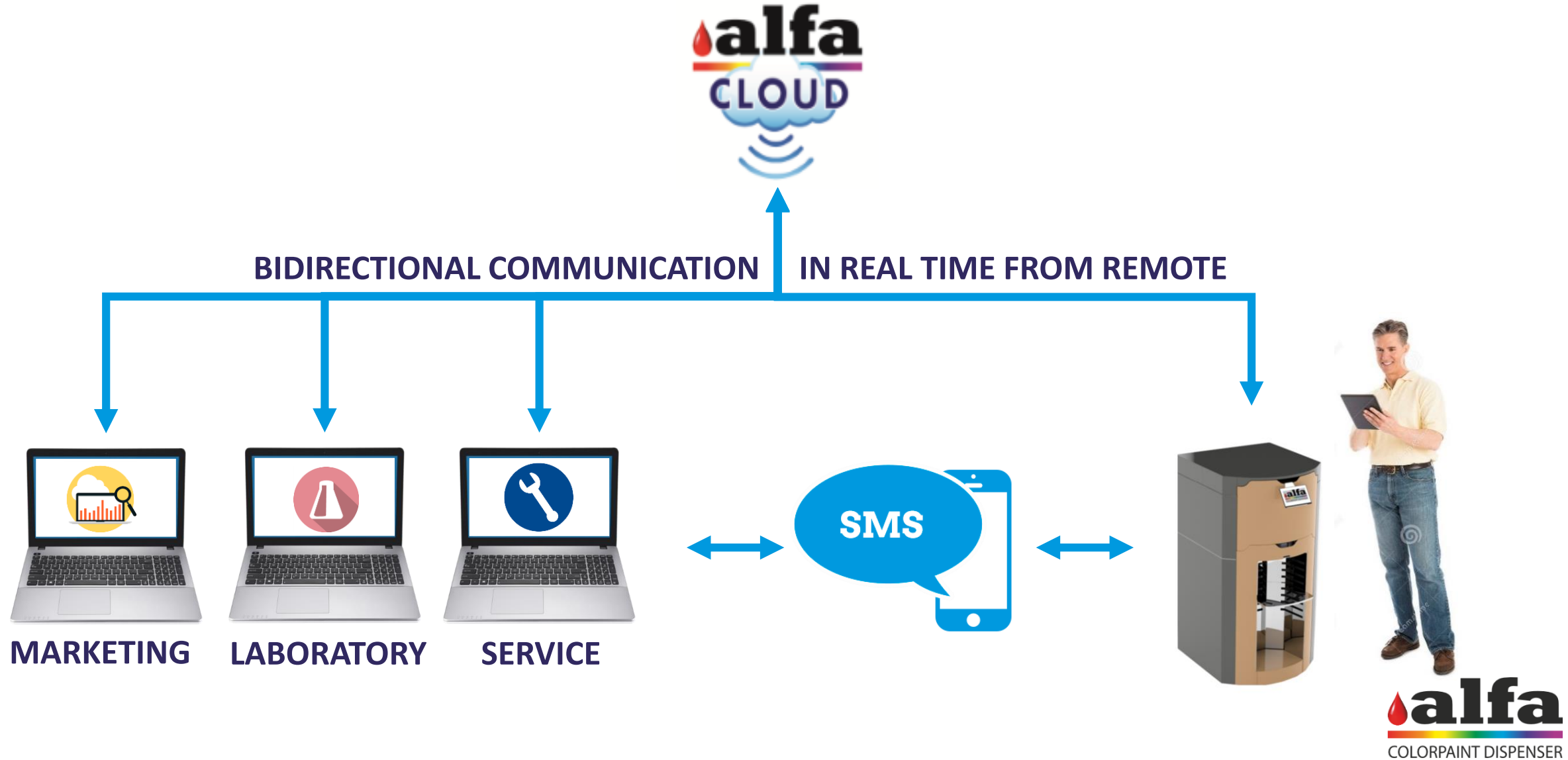
Information is gathered and made available to all authorized users from remote in real time.

BIG DATA



To have far more intelligence at your disposal to improve decision-making and minimise risks.

Full control of your business



Why THOR?



- No calibrations
- No purges
- No cleaning
- No product dripping
- No product drying
- No product with air bubbles
- No pumps wear and tear
- Perfect accuracy and repeatability
- Low maintenance costs
- Produce from 100 cc sample to 20 lt cans
- Upgrade to Master System anytime
- Can operate by means of a tablet



THINK
DIFFERENT
INNOVATIVE
SIMPLE