Ori-Collector
Sampler Device for Milking Robot

29 May 2013
Aarhus, Icar 2013
Ori-collector,
Universal sampler device for Roboting Milking developed by FCEL/Sayca
Background
Manufacturer Sayca
Project FCEL/SAYCA
Test Icar
Ori-Collector in France
Level of sales for robot
- on 2011 (950 Box)
- On 2012 (1100 Box)

Issue: Management many samplers?
Shuttle A, VMX, GEA suitcase,...
Reliability: a few questions....
Maintenance: not easy
Price: No stable and expensive
SAYCA, Spanish manufacturer has developed his own sampler. (Dealer for Insentec, 50 robots in Spain)

**Objective:** develop a sampler device for the robot Insentec

**Model:** Rotation system very simple
- Capacity: 60 samples
- Live connection on the receiving vessel
- Suitable for Lely, Packo FullWood, Boumatic, Sac
Test in France on Merlin Robot in August 2011
Test Conclusion:
- Result is fine
- Easy to use
- Few moving parts
- Weight:

<table>
<thead>
<tr>
<th>Modèle</th>
<th>Poids (kg)</th>
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<tbody>
<tr>
<td>SAYCA</td>
<td>17,8</td>
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<tr>
<td>Shuttle B, Lely</td>
<td>19,4</td>
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<td>Shuttle, Lely</td>
<td>22</td>
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<tr>
<td>Valise Mlone, GEA</td>
<td>24</td>
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<tr>
<td>VMX (+ caisse de transport), Delaval</td>
<td>34,6</td>
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</tbody>
</table>
- 90 samplers
- Finish Aluminium (+ light)
- Simple rotary system
- Dosing system (+ precise)
- Manage two types of bottle 30/40 ml
- Washable and Disposable
- Compatible RFID
- Weight = 15kg
Lely: A3, A3 Next et A4
  ✓ Approval by Icar in January 2013

Fullwood Packo: Merlin
ICAR test in waiting (Units < 100)
✓ Approval for France by Idele

Boumatic Robotics: MRS1
ICAR test in waiting (Units < 100)
✓ Approval for France by Idele
DeLaval: VMS
Test in Sweden and France
Current Adaptation in France.
Next step: ICAR Test in few month
GEA: Mlone
Adaptation Kit FCEL/Sayca
Test in Germany
Test in France, current adaptation
Next step: ICAR Test in few months
100 Ori-Collector’s are used

In the field

- Transport and installation OK
- Loading Bottle OK
- Filling and Rotation OK
- Disassembly OK
- Cleaning OK
Thanks for your attention