



Tout devient simple

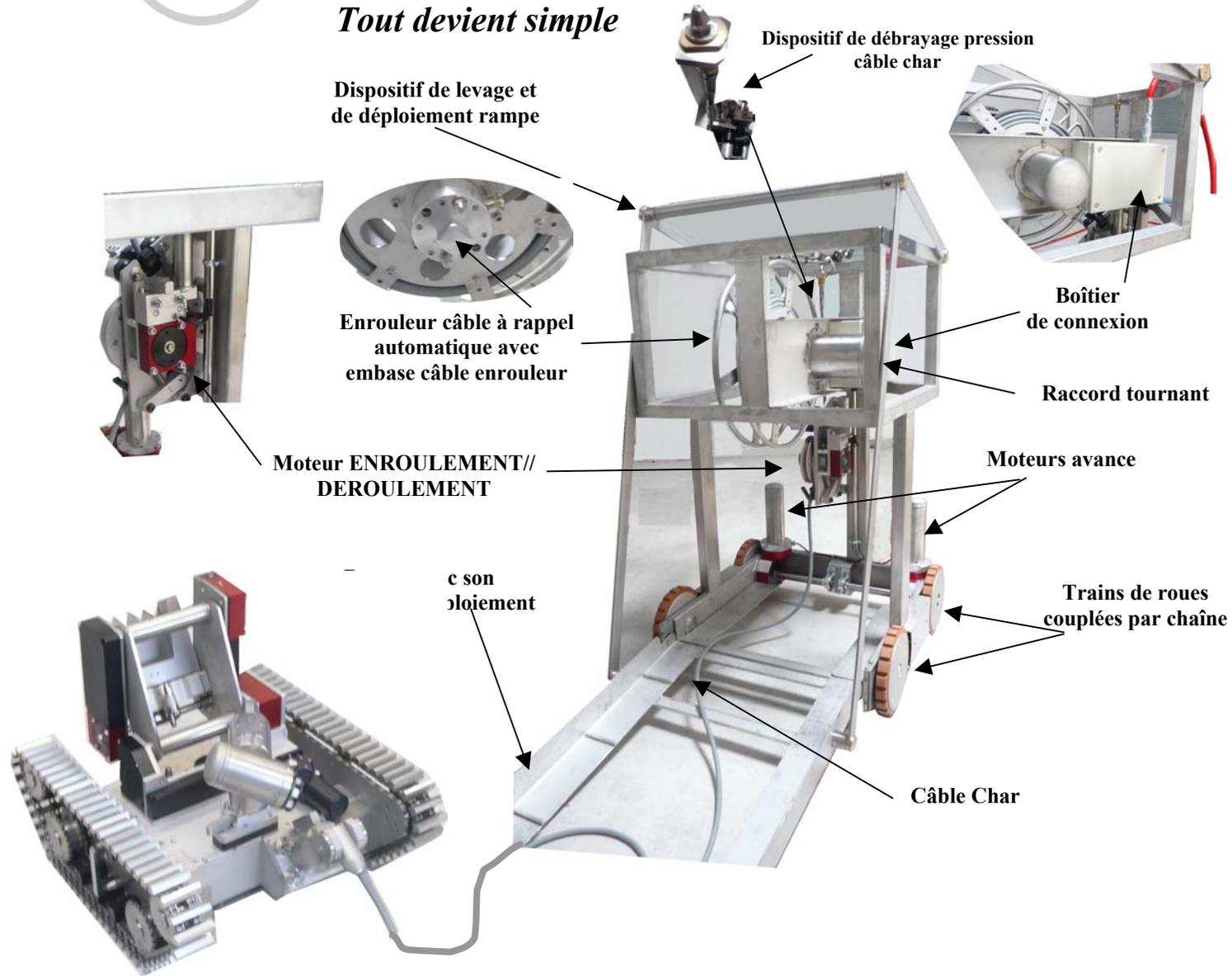
DEMANTELEMENT

GAMME RUSSY

- *Modulable*
- *Télé manipulable*
- *Tenue aux radiations (électronique durcie)*

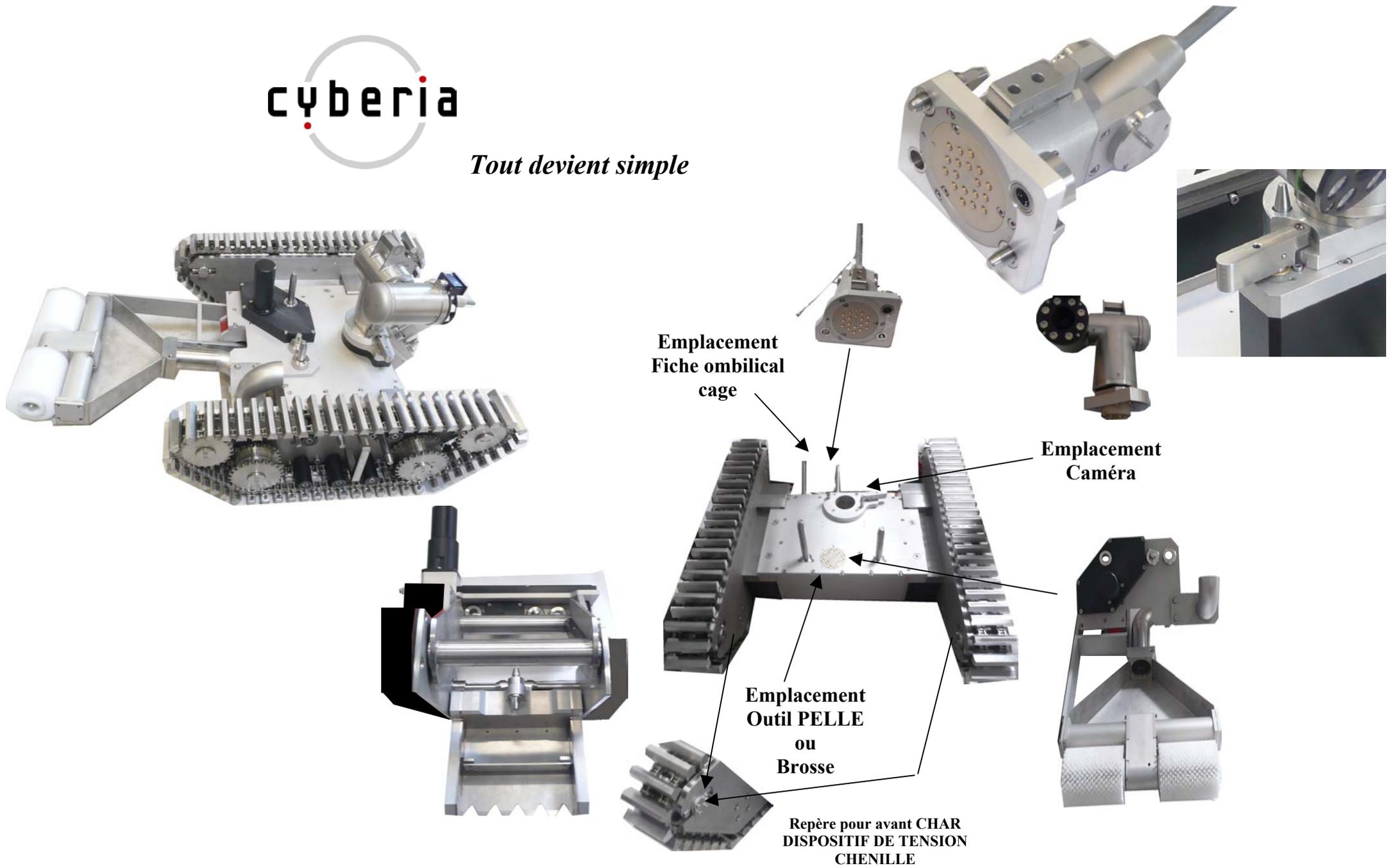


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**Emplacement
Fiche ombilical
cage**

**Emplacement
Caméra**

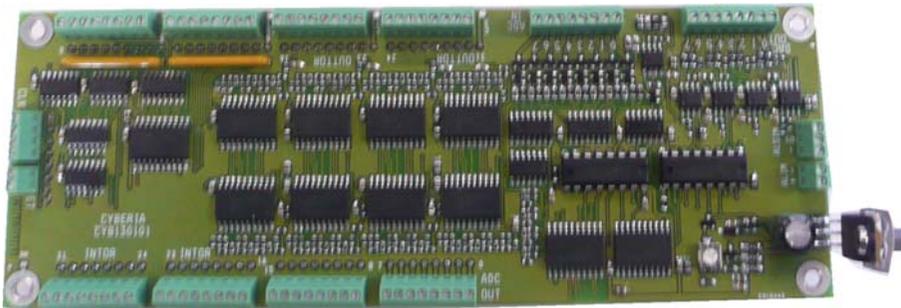
**Emplacement
Outil PELLE
ou
Brosse**

**Repère pour avant CHAR
DISPOSITIF DE TENSION
CHENILLE**

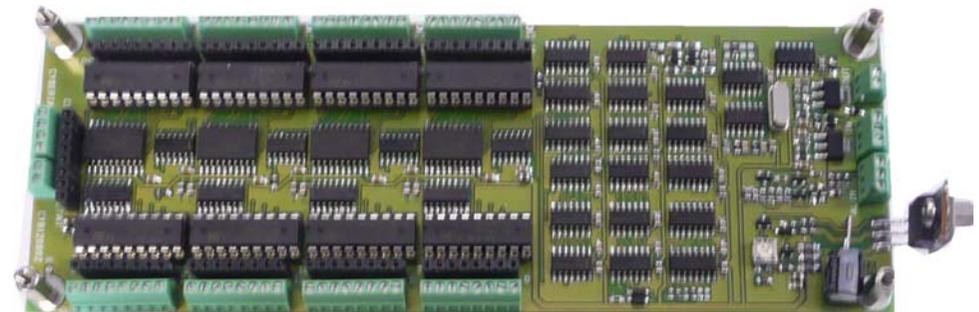


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TENUE AUX RADIATIONS
Electronique TTL >1 Mrads
2 Paires remplacent 76 fils



Carte 30 TOR



Carte 8 ADC & + 8 DAC



Carte 30 TOR +8 ADC & + 8 DAC



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VISION AVEC TENUE AUX RADIATIONS

Dose cumulée 10^7 rads





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- *Spectrométrie GAMMA*
- *Imagerie GAMMA*
- *Mesures de radiation*
- *Téléométrie Laser*
- *Images Vidéo*

ROBOT DE CARTOGRAPHIE



Marcoule Pilot Facility



RICA 3: Blind Cell Inspection Robot

CEA DEN/DEIM/SEIA (MARCOULE centre - France) has developed a new inspection robot in collaboration with the company CYBERIA (France). The carrier « RICA 3 » (an acronym which translates as BCIR Blind Cell Inspection Robot n°3) allows physical and radiological inspection of nuclear cells by using classic and nuclear measurement equipment in order to prepare the dismantling of the cells.
CEA Patent n° FR 07/60252 - 21/12/2007.

RICA 3: A nuclear measurement instrument portable package
Weight: 90 kg. Speed: 0 to 5 m.min⁻¹ (0 to 30 ft.min⁻¹)

Ambient dose rate measurement

Front video camera

Rear video camera

Gamma spectrometric probe

Caterpillar carrier
Forwards/Backwards
Left/Right



Laser telemetry

Colour video camera

Gamma imaging

Lighting

2 laser "lines"

CEA Patent n° FR 06/0582 10/12/06 et FR 06/057 03
 CEA Patent n° FR 06/0588 10/02/06 et FR 06/0589 05
 CEA Patent n° FR 06/0592 20/02/07
 CEA Patent n° FR 06/0594 20/02/07 et FR 06/0595 05
 CEA Patent n° FR 06/0596 10/02/06 et FR 06/0597 05

Remote control case

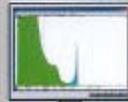




Video camera



Gamma Imaging



Gamma Spectrometry



Telemetry, Ambient dose rate

Data Multiplying cabinet



Logical and analogical multiplexed data on a 1M m long coaxial cable

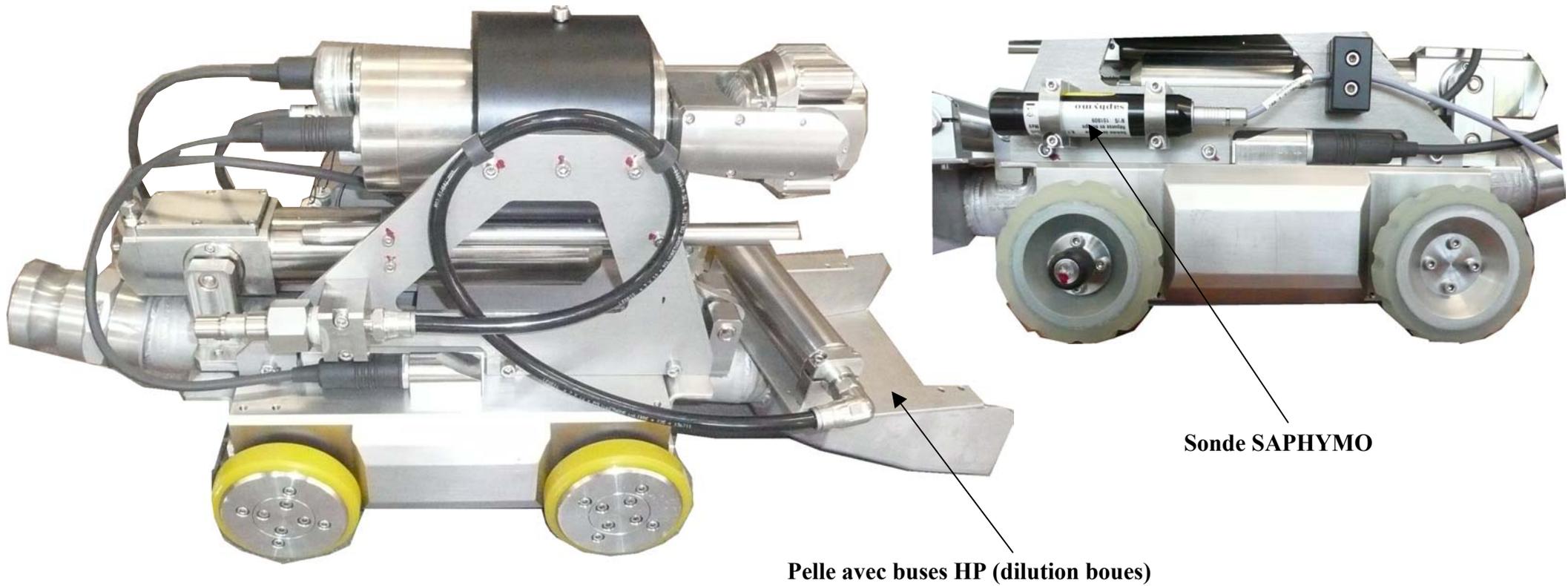






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QUELQUES REALISATIONS



Pelle avec buses HP (dilution boues)

Sonde SAPHYMO

RETOUR