



ORADOC

PERFECT DOCTORING SYSTEMS



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Ropeless tail threading to improve safety and efficiency:
PT Dayasa Aria Prima – PM1 rebuilding project.

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Agenda

- ✓ Oradoc and Wiva group short presentation
- ✓ News MTK company acquisition
- ✓ Dryer section rebuilding on PM1 – PT Dayasa Aria Prima - Indonesia (SCG Group)
 - ✓ **Company profile**
 - ✓ **Project specification/target**
- ✓ Oradoc involvement
 - ✓ **Dryer doctors**
 - ✓ **Ropeless tail threading systems: OraShoot™ and OraThread™: how to impact safety and effectiveness.**
- ✓ Results/conclusion
- ✓ Q&A

ORADOC is member of **WIVA** a network that involves two other companies, **CRC** and **ISE**.



Oradoc - Company Profile

- ✓ Doctoring Solutions
- ✓ Measuring Systems
- ✓ Services
 - Technical Services
 - Doctor overhaul
 - Rebuilding and upgrades
- ✓ 30+ years on the Tissue, Paper and Board markets
- ✓ Headquarters in Tissue Valley - Lucca, Italy (120+ Tissue paper machines)
- ✓ 20.000+ doctoring systems installed worldwide
- ✓ 1.000+ flexible creping doctors worldwide

ORADOC acquires MTK and consolidates its leadership in the paper industry

MTK, located in Lucca, is specialized in the design, construction and supply of **drainage systems** and **vacuum systems** and its products and services are conceived for paper mills and machine and plant manufacturers on the national and international paper markets.

The acquisition operation is inscribed within the development plans of **ORADOC** and it goes along with the strategic programs of the other WIVA Network affiliated companies.



PT Dayasa Aria Prima – Company profile

Fajar Paper is a leading packaging paper manufacturer (PT Fajar Surya Wisesa subsidiary of SCG Group)

- ✓ Location Indonesia
- ✓ # PM: 6
- ✓ Annual production: 1.300.000 t/year
- ✓ Products:
 - Kraft Liner Board (KLB)
 - Corrugated Medium Paper (CMP)
 - Coated Duplex Board (CDB)



PT Dayasa Aria Prima – Company profile

PT Dayasa Aria Prima is one of the plants of Fajar Paper

✓ Location: Gresik, East Java, Indonesia

✓ Area: 400.000 m²

✓ Employees: 1000 people

✓ # PM: 3

- PM1: CMP 730 ton/day
- PM2: CDB 100 ton/day
- PM3: CDB 100 ton/Day



PT Dayasa Aria Prima – Rebuilding project on PM1

Technical Specification/Targets

- ✓ Fine Paper -> Corrugated medium paper
- ✓ Paper width Pope: 5.150 mm
- ✓ Basis weight: 75 – 125 g/m2
- ✓ Operation Speed: 1.100 m/min
- ✓ Scope of supply (dry section):
 - ✓ Drilled vacuum rolls (with stabilizer)
 - ✓ Modification of canvas runs
 - ✓ Extension of after dryer section
 - ✓ New dryer doctors
 - ✓ Ropeless tail Threading systems



PT Dayasa Aria Prima – Oradoc scope of supply

- ✓ Doctoring systems for dry section
 - Nbr. 18 complete doctors with OraClean K35
 - Electromechanical oscillation

- ✓ Ropeless Tail Threading systems
 - Nbr. 49 OraShoot and OraThread

- ✓ Supervision on installation and commissioning



PT Dayasa Aria Prima – Oradoc scope of supply

Layout

Ropeless tail threading systems OraShoot™ and OraThread™: how to impact safety and effectiveness

OraShoot™



OraThread™



Ropeless tail threading systems: OraShoot™

OraShoot™ is a simple and effective stand-alone system to thread the tail from a roll during machine start-up/sheet break

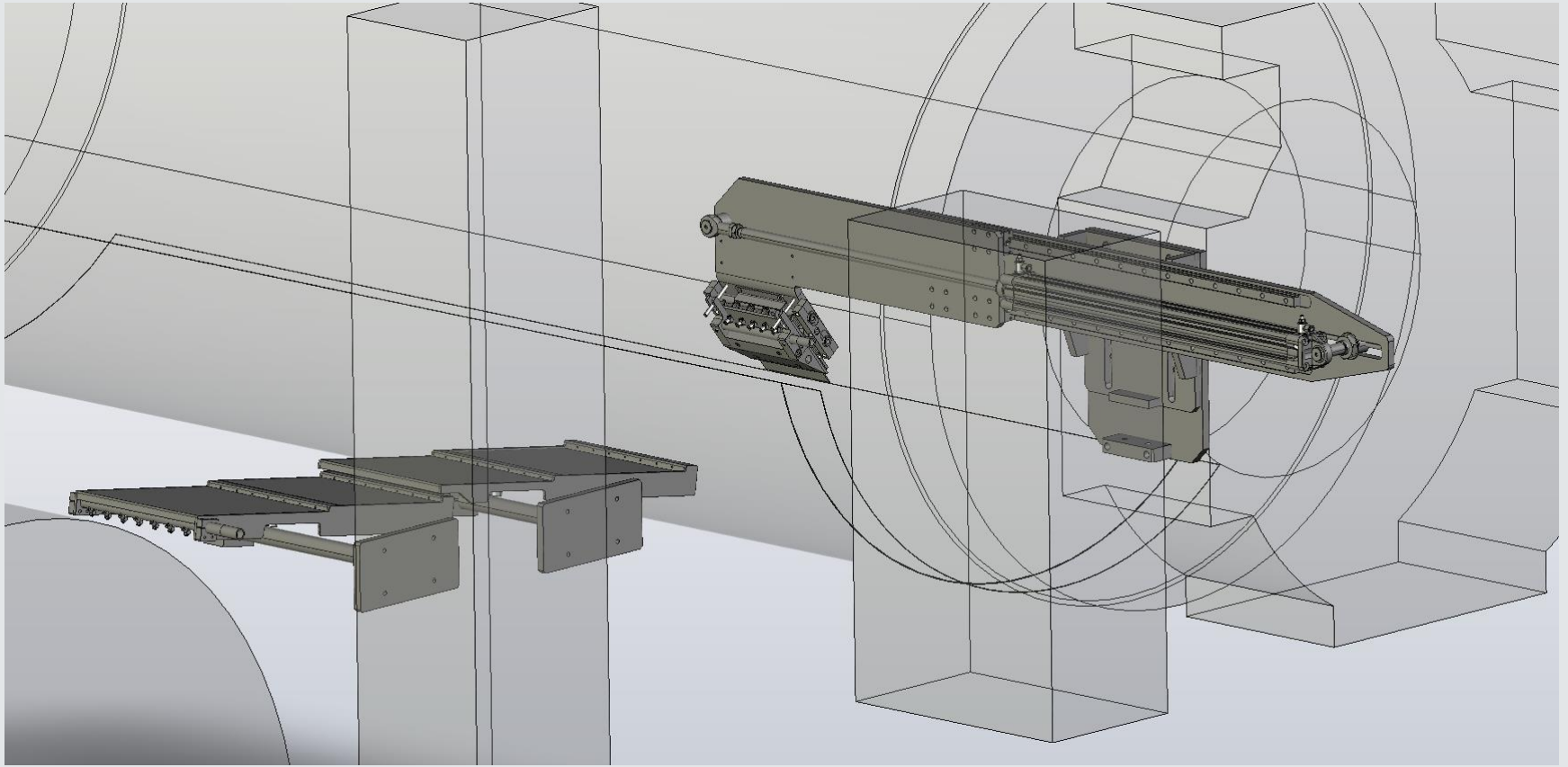
FEATURES

- ✓ Press and/or Dry section
- ✓ No ropes needed
- ✓ Safety increase
- ✓ Reduced downtime
- ✓ Stand alone DST doctor fixed or sliding



Detail on OraShoot

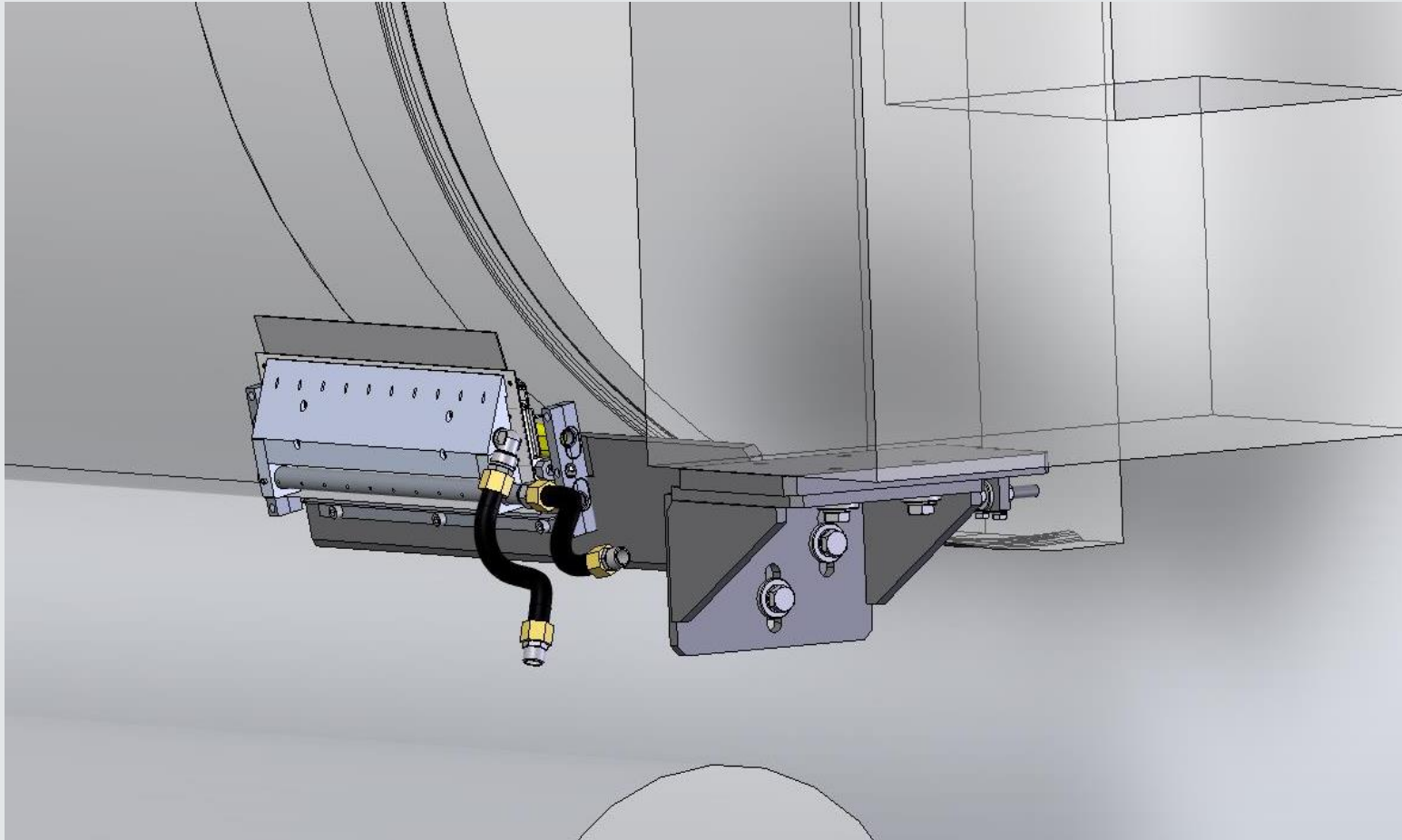
OraShoot™ - Drawing - Sliding



OraShoot™ - Video



OraShoot™ - Drawing - Fixed



Ropeless tail threading systems: OraThread™

OraThread™ allows threading the tail from one position to another, during machine start-up/sheet break

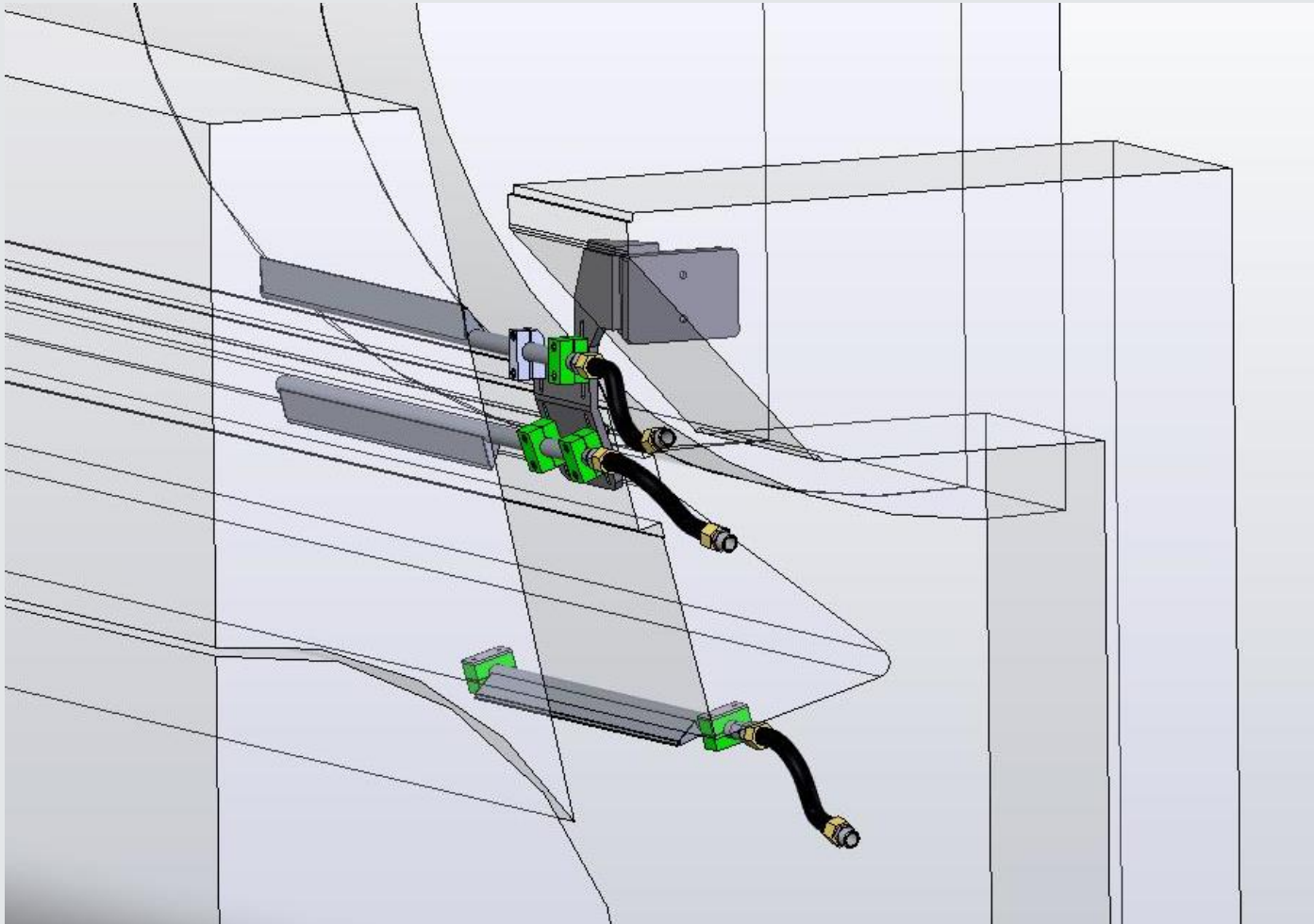
FEATURES

- ✓ Dry section (top/Bottom position)
- ✓ No ropes needed
- ✓ Safety increase
- ✓ Reduced downtime
- ✓ Can be installed on flexible or rigid doctor holders

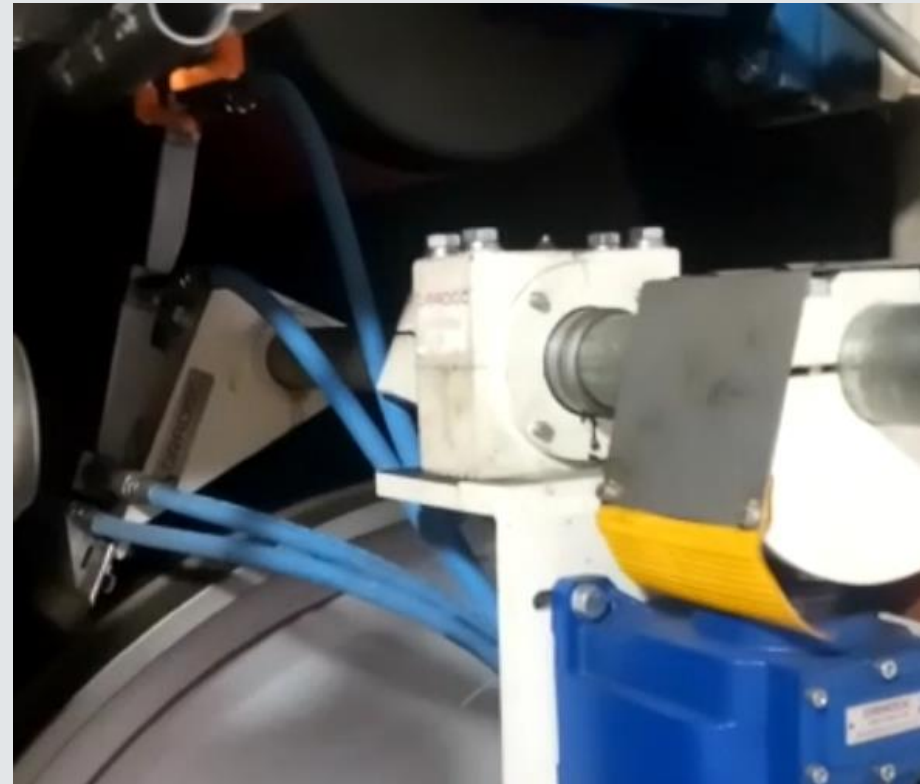
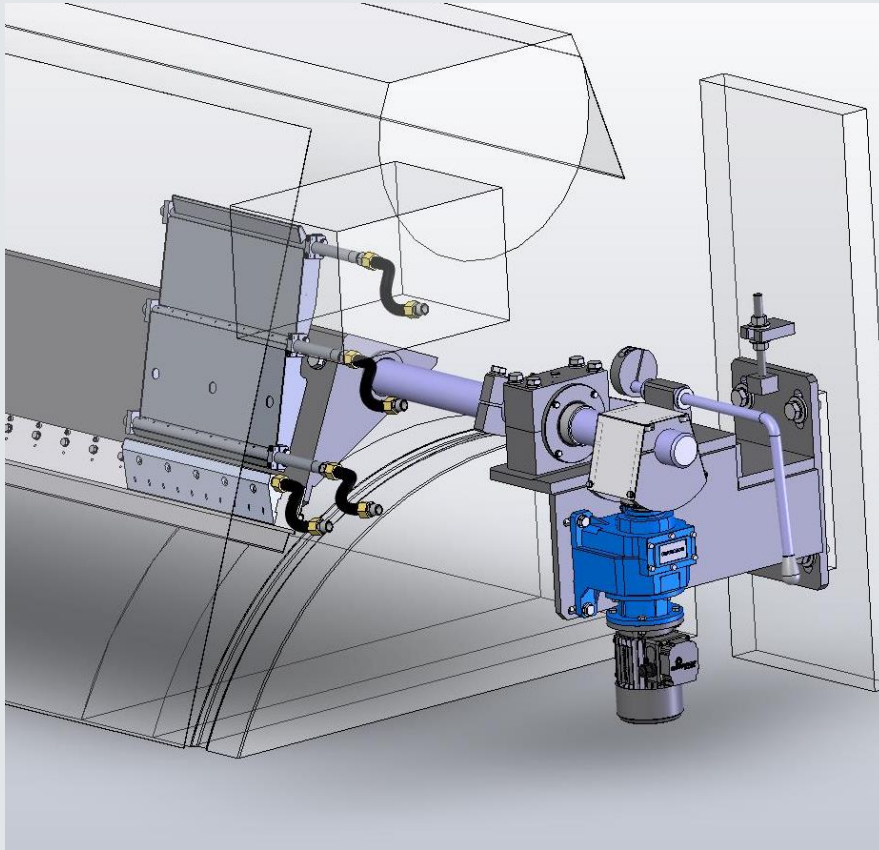


Detail on OraThread

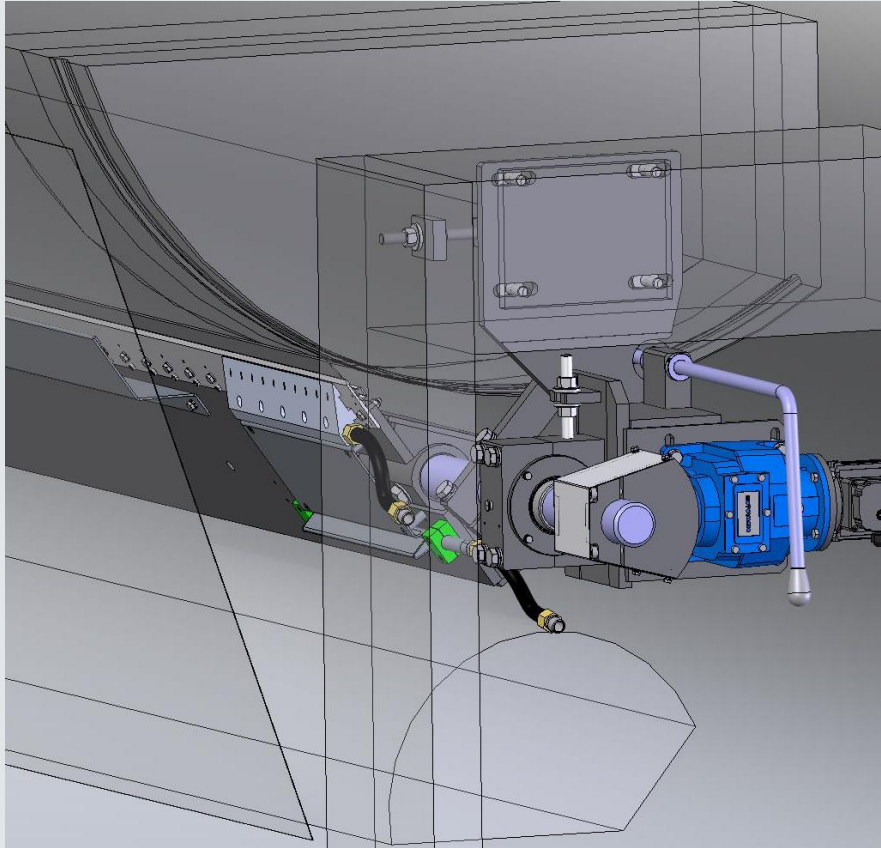
OraThread™ - Drawing on Vacuum rolls



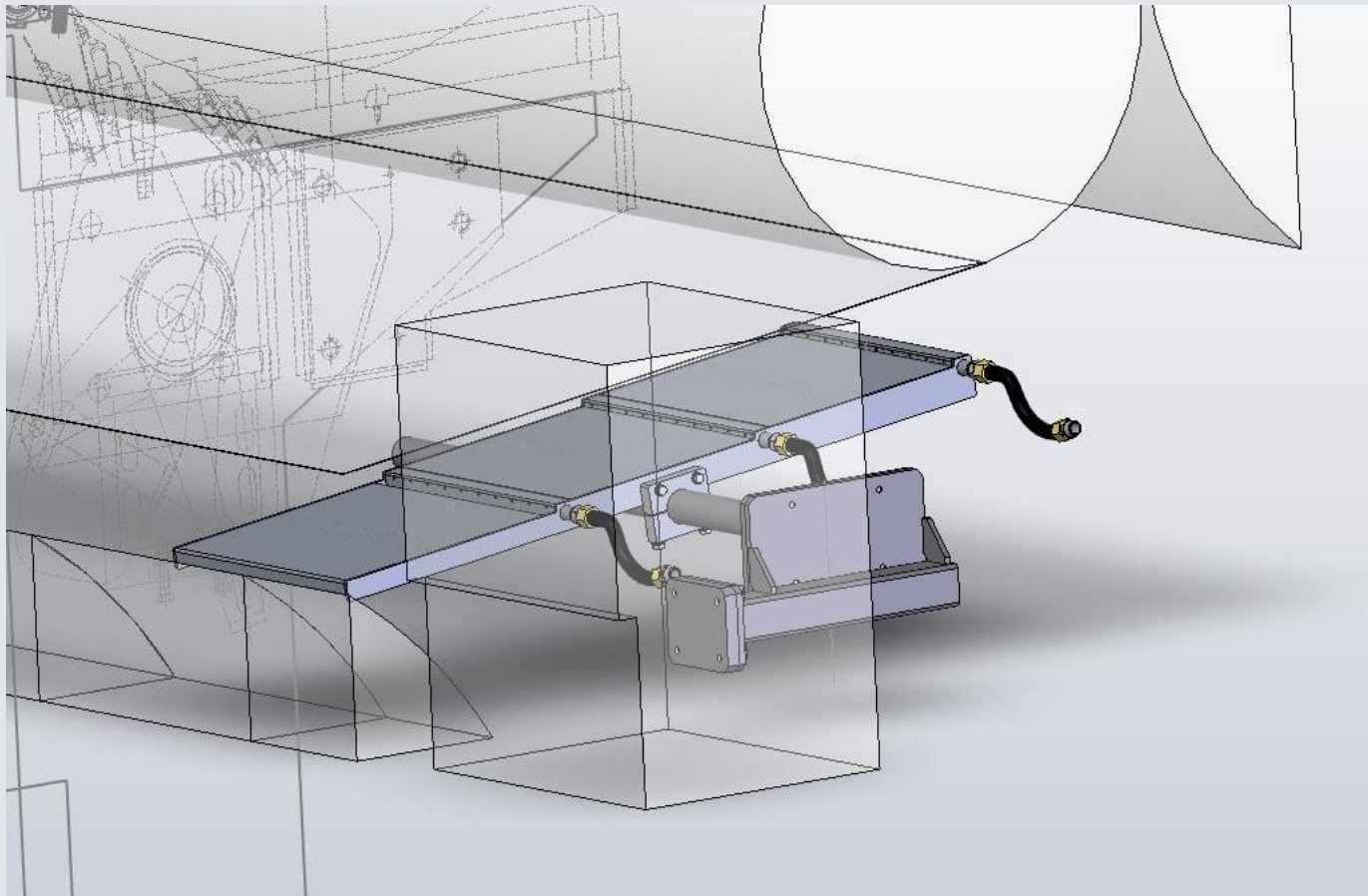
OraThread™ - Drawing on Dryer cylinder - Bottom



OraThread™ - Drawing on Dryer cylinder - Top



OraThread™ - Drawing on Dryer cylinder - Deflector



PT Dayasa Aria Prima – Video dryer section



PT Dayasa Aria Prima – Video to Size Press



PT Dayasa Aria Prima – Video to Pope reel



PT Dayasa Aria Prima – Oradoc Tail Threading systems

✓ Goals achieved

- Customer satisfaction
- Quick and fast installation (doctors+OraShoot/OraThread)
- Quick setup and regulation
- Improve safety of the operator
- Increase Tail threading process during start up/paper break



Thank you for your attention!



PERFECT DOCTORING SYSTEMS

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Q&A