

# AUTOMATIC REMOVAL OF MOTOR WINDINGS

## COMPANY

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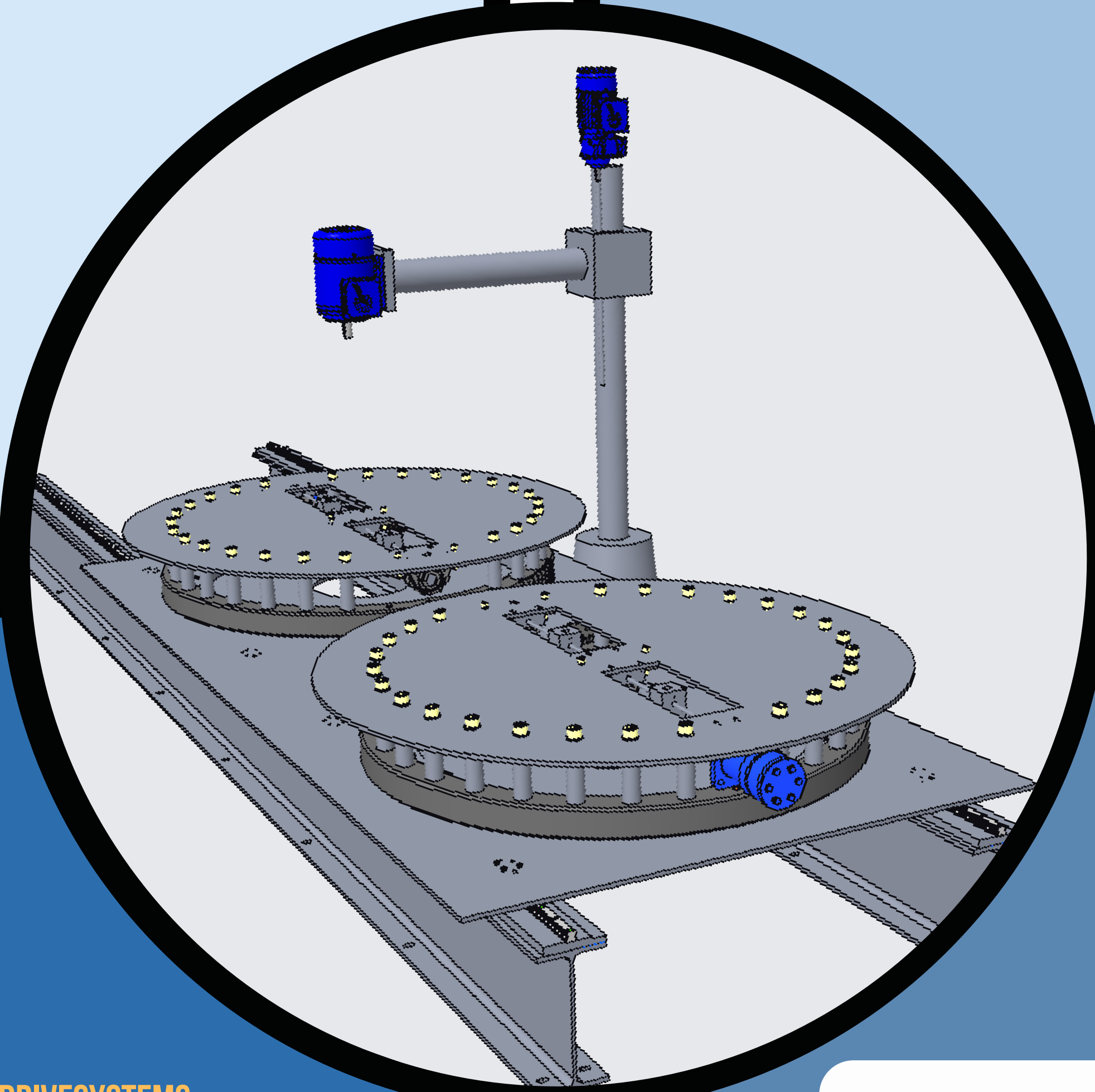
HERTOGS ENGINEERING (BREE BELGIUM) STARTED AS A COMPANY SPECIALIZED IN THE REWINDING PROCESS OF ELECTRICAL MOTORS AND GREW THROUGHOUT THE YEARS TO AN ALL-ROUND SUPPLIER FROM ELECTRICAL MOTORS, DRIVES AND GEARBOXES. THE MAIN FOCUS OF THE COMPANY IS STILL REWINDING OF ELECTRICAL MOTORS.



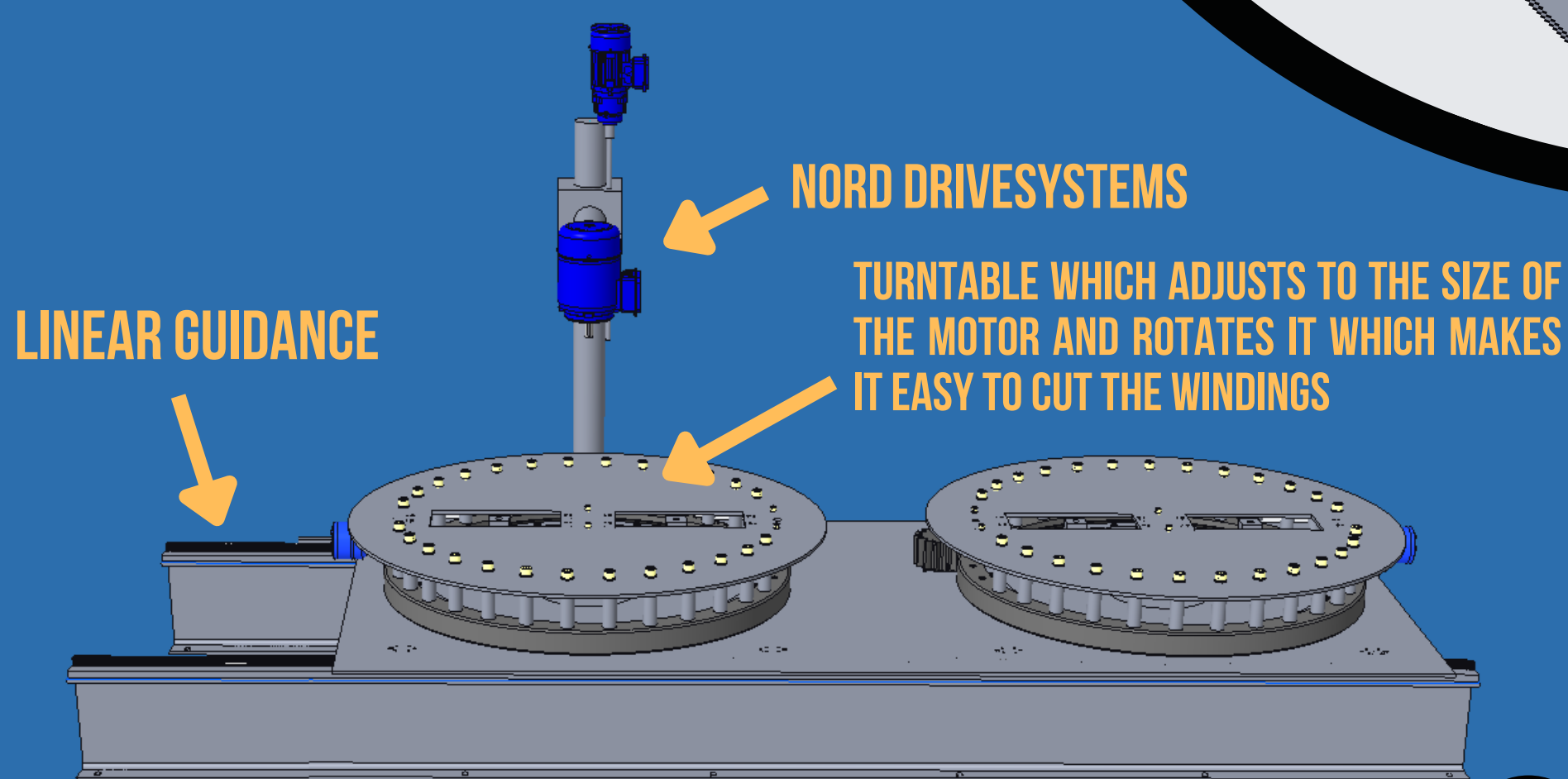
## SITUATION

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CURRENTLY, REWINDING IS DONE BY HAND. THEY REMOVE THE OLD WINDINGS BY CUTTING THEM WITH AN ANGLE GRINDER, THE WINDINGS ARE HEATED WITH A TORCH SO THEY CAN EASILY BE REMOVED BY HAND. OBVIOUSLY, THIS IS A **DANGEROUS** JOB. TO **SPEED UP** THE REMOVING PROCESS AND MAKE IT SAFER, THEY WANT TO AUTOMATE THIS PROCESS.



THE MOTORS ARE PLACED ON A TURNTABLE WHICH IS MOUNTED ON A LINEAR GUIDE. THE ASSEMBLY IS AUTOMATICALLY DRIVEN UNDER THE SAW. THE SAW IS MANUALLY ADJUSTED TO THE CORRECT HEIGHT. AFTER THIS, THE WINDINGS ARE CUT WHILE THE MOTOR ROTATES AROUND ITS OWN AXIS.



## SOLUTION

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### VARIABLE

- OUTER DIMENSIONS MAX 4M BY 2M BY 4M
- MAX WEIGHT OF 10 TONS

### FIXED

- MOTORS UP TO A MAXIMUM DIAMETER OF 1 METER
- POSSIBLE TO BE OPERATED BY 1 PERSON
- SAW CAN'T BE ACCESSED WHILE THE MACHINE IS OPERATING
- ONLY NORD DRIVESYSTEMS



## SPECIFICATION

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SPECIALISATION: ELECTROMECHANICAL ENGINEERING TECHNOLOGY

WESLEY DOUMEN, ARTUUR DEHAESE

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