

BUSCH GROUP



INDUSTRY MEETING SUSTAINABILITY

HFML-FELIX

Ehider Polanco | 02-09-2026



Ehider Polanco
Account Manager for R&D



36 years old



Venezuela -> NL



R&D / Chemistry

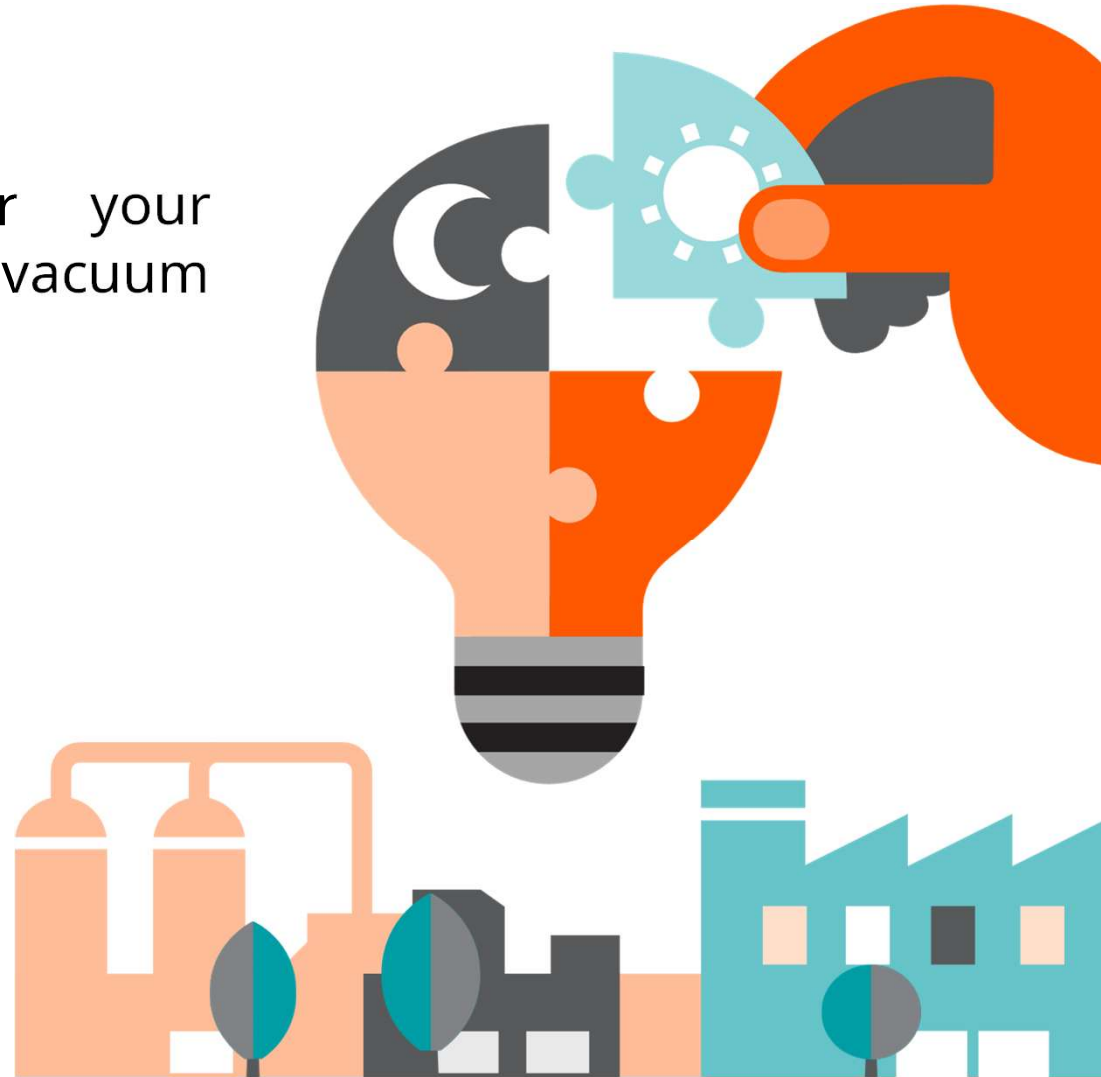


PhD in Chemistry
(Leiden University)

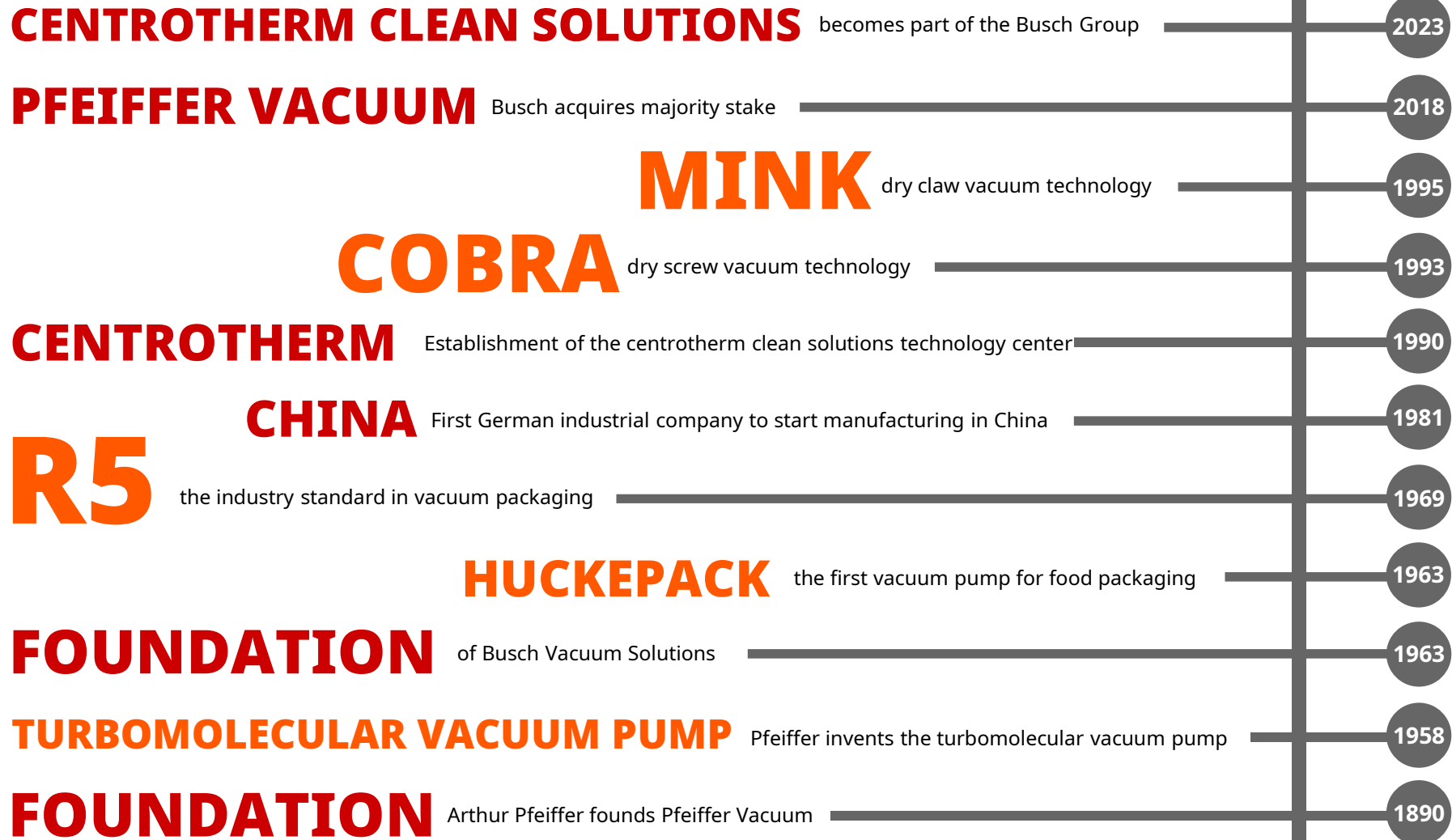
Your One-Stop Supplier

For all vacuum needs

Whatever your process, whatever your requirements, we have the optimum vacuum for you.



Our History



Our Facts and Figures

Solid. Worldwide.

With a network of over 100 companies in more than 40 countries and agencies worldwide, the Busch Group has a global presence. In every country, highly competent local personnel delivers custom-tailored support. Backed by a global network of expertise. Wherever you are. Whatever your business. We are there for you. Reliable since 1963.

>8 000 employees worldwide.

44 countries with own subsidiaries.
To cover the whole world.

23 production sites.

2 leading brands.

~2 bn. Euro consolidated turnover.
Status: 2025



One Family

The Busch Group is more than an ordinary family business. We are one family. We know each other, we work together hand in hand. We live diversity, open culture and cooperation.

We think in generations, not in financial quarters. The founders, their daughter and sons all work in our company. Every day.

For fast decisions, stability and reliability.

BUSCH GROUP

YOUR RELIABLE PARTNER FOR ALL VACUUM NEEDS.
FAST, FLEXIBLE AND ALWAYS NEAR YOU.



The standard in rough and medium vacuum technology for a wide range of industries, like food packaging, chemical, plastics. Since 1963.



More than 130 years of experience for best-in-class high vacuum, leak detection, and gas abatement. For semicon, analytics, research, etc.

Our portfolio

Vacuum Generation



Vacuum Analysis



Solutions + Systems



ROUGH

Vacuum

HIGH

Support That Sets You Up for Success

Setup. Learn. Solve. We're here when it counts.

Calibration Service

of measurement
equipment
according to
international
standards



Field Service & Repair

Optimizing
performance,
efficiency and
availability

Educational Services

Videos, webinars &
Vacuum Days —
practical know-how
at your fingertips.



Application Support

Feasibility or cycle-
time studies,
contract leak
testing, residual gas
analysis

Sustainability At Busch Group

We are committed to reducing environmental impact and tackling climate change through sustainable manufacturing processes and products designed with purpose.



Climate target:
net-zero by 2050



Certified environmental
management



Technology that
enables sustainability



ESRS-aligned Report Published for Fiscal Year 2025

European Sustainability Reporting Standards (ESRS)

Sustainability Report 2025

This PDF is a
convenience
translation and an
extract from the
audited Pfeiffer
Annual Report 2025
(only available in
German)



Our commitments

Driving Sustainable Impact Across Our Business and Value Chain



Our Commitment to the United Nations SDGs

Advancing Global Goals Through Targeted SDG Action

Promoting diversity, equal opportunity, and women in leadership

5 GENDER EQUALITY



Increasing share of renewables in energy mix

7 AFFORDABLE AND CLEAN ENERGY



Sustainable growth while upholding labor standards and supporting employee well-being

8 DECENT WORK AND ECONOMIC GROWTH



Energy-efficient products for innovative industries

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Sustainable, energy-efficient product manufacturing

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Integrity, anti-corruption, and global compliance programs, supply chain due diligence

16 PEACE, JUSTICE AND STRONG INSTITUTIONS



Sustainability goals

SBTi-approved clear reduction goals



CO₂

Net-zero

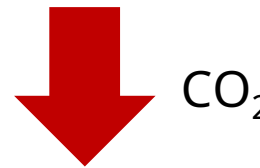
Commitment to reach net-zero emissions for scopes 1 + 2 by **2050**



CO₂

-58.8%

Reduce scope 1 + 2 emissions 58.8% by **2034** from 2022 base year



CO₂

-35%

Reduce scope 3 emissions 35% by **2034** from 2022 base year



100%

Increase share of renewable energy used to 100% by **2030**

Product Carbon Footprint

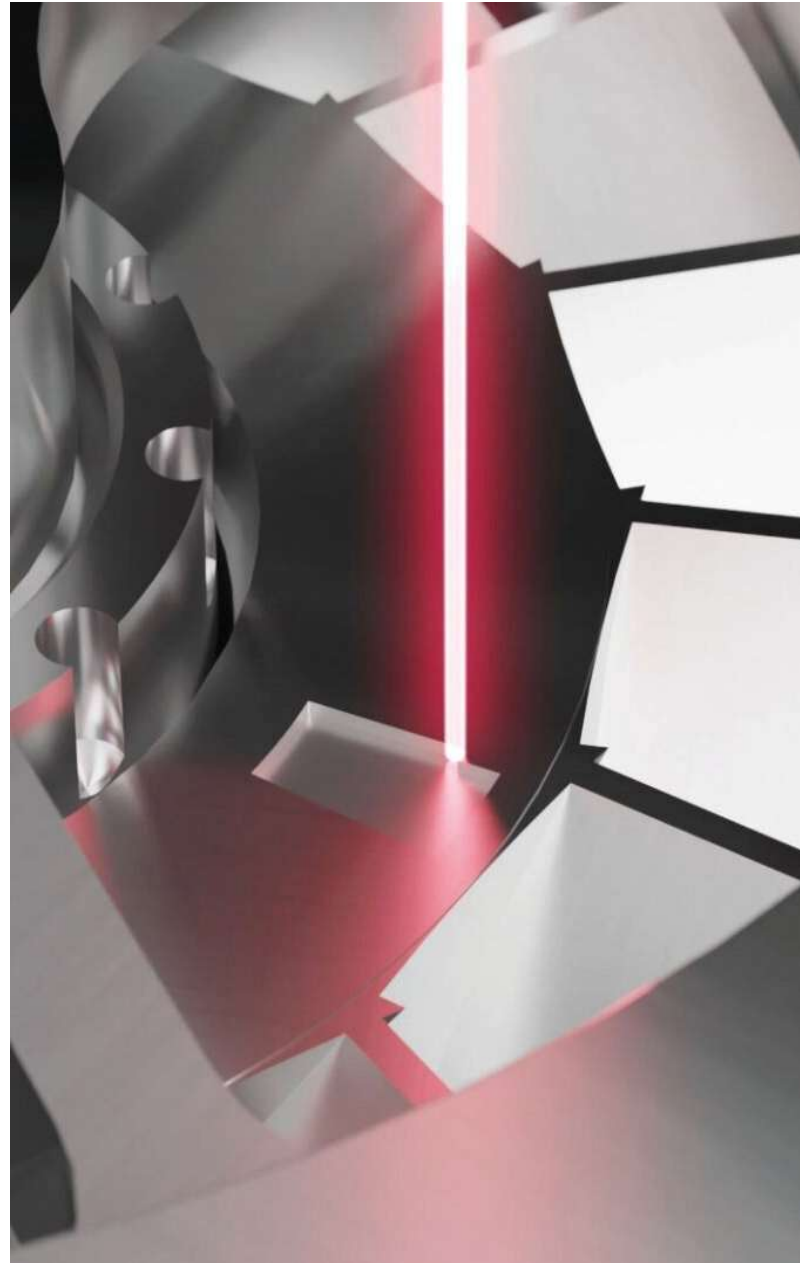
Gaining Insights

- First PCFs aligned with **ISO 14067**
- Four products:
 - HiPace80
 - HiPace300
 - Splitflow80
 - Splitflow300



Laser Balancing™

Developed, patented
and industrialized by
Busch Group



Less vibration

Roughly 20% lower
vibration* compared to
standard balanced rotors



Increased reliability

Due to more precise
ablation balancing process



More robust

Due to improved rotor
design

*in average

HiScroll

Dry scroll vacuum pump with powerful pumping speed— independent of gas type



Ultra-quiet & low vibration
Perfect for labs and noise-sensitive areas



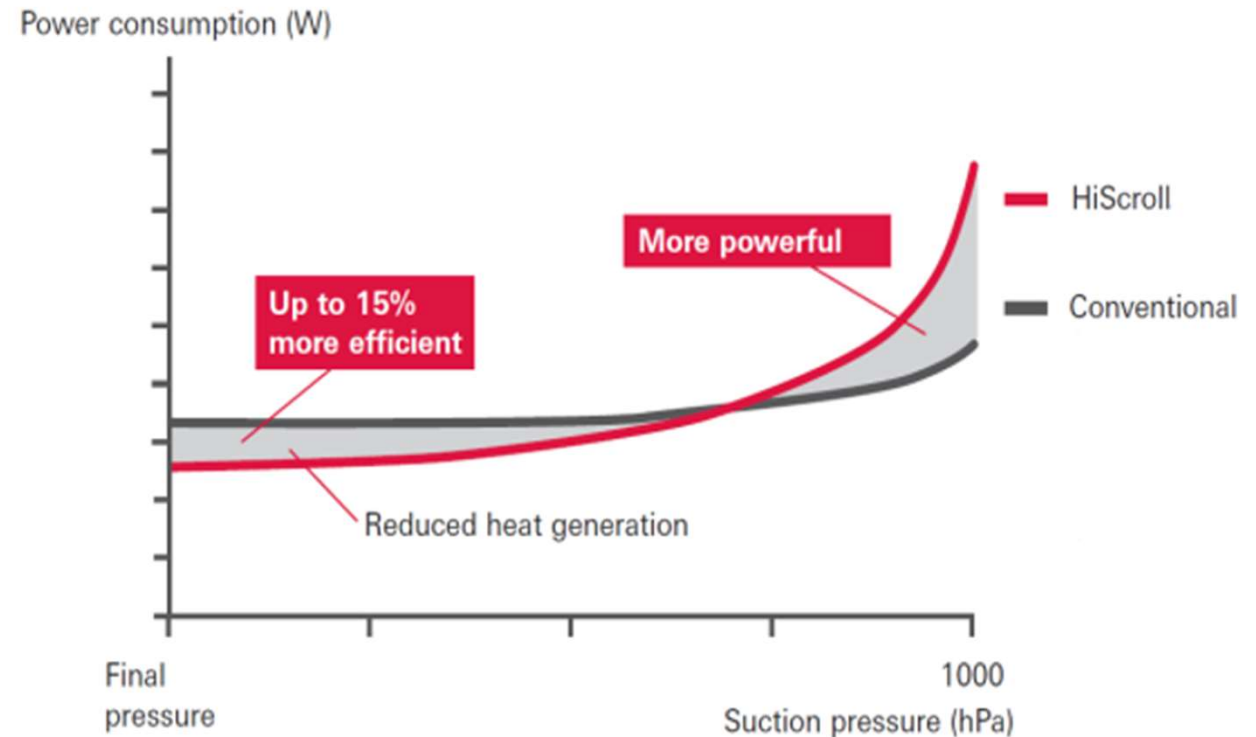
Seamless integration
Compact, easy to install, and flexible



Maximum efficiency
Fastest pump-down time with lowest energy consumption

High Efficiency Motor – Example: HiScroll

- 15% more efficient than standard motors
- Benefits
 - Saves energy
 - Low heat generation
 - Reduces carbon footprint



Empowering sustainable operations

Gas treatment solutions

Gas treatment solutions are essential in semiconductor fabs to safely remove hazardous process gases, ensure regulatory compliance, and reduce the environmental impact of chip manufacturing.



SAFETY

Safety standards:

- NFPA (National Fire Protection Association)
- SEMI

Eliminate fire and explosion hazards



EMISSION CONTROL

Regulations:

- TA-Luft
- NESHAP (USA)

Capture toxic process exhausts



AIR QUALITY

Regulations:

- TA-Luft
- NESHAP (USA)

Reduce secondary emissions, like particles, NOX



**Our vacuum solutions create
space for innovations.**

Whatever your process, whatever your requirements,
we have the optimal vacuum solution for you.

Thank you for your attention!

Ehider Polanco, PhD
Account Manager R&D

M +31 (0)644 135490

P +31 (0)348 462344

Ehider.polanco@buschgroup.com

**Big Science
Business
Forum
2026**

We are exhibiting

MECC MAASTRICHT

27 - 30 OCTOBER 2026