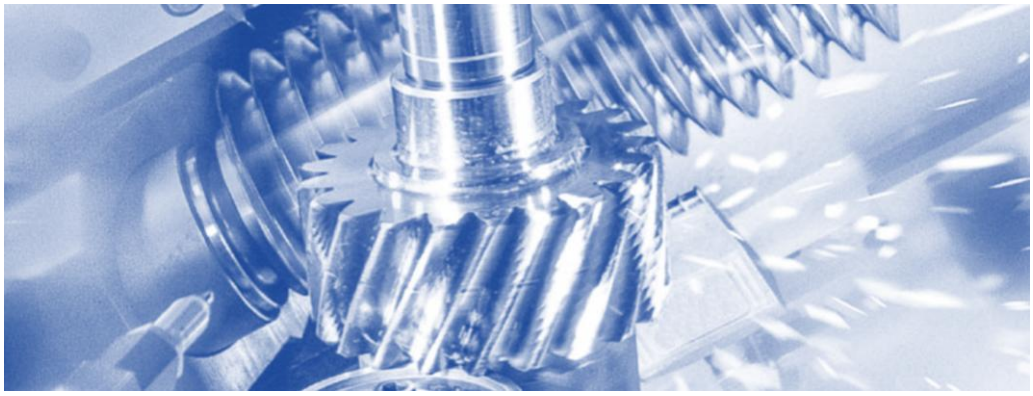


Eurotrans Training «Design meets Production»

Modern Design-to-Production Process
Practical Insights from the Gear Industry - Live Manufacturing Experience

Date	February 26-27, 2026, 2 days.
Locations	HWZ University, Lagerstrasse 5, 8004 Zurich, Switzerland. Grob AG, Staempfelfeld 3, 6244 Nebikon, Switzerland.
Who should attend	Design and development, production and quality management. Basic gear knowledge is an advantage but not a requirement.
Language	English.
Certificate	Each participant receives an **Eurotrans Training Certificate**.

Why attend

- ✓ Education provided by industry - from practice for practice
- ✓ Cutting-edge insights - how to minimize time and costs
- ✓ Upgrade your expertise for your professional advancement
- ✓ Bring your specific topics with you for round table discussions
- ✓ Networking - meet your peers and build valuable relationships

Discuss with inspiring lecturers from 8 European companies:

GROB Nebikon · REISHAUER Gear Grinding Technology · Sauter Bachmann Swiss precision gears · KISSsoft Drivetrain Design Solutions · rimon · BALANCE DRIVE SWISS MOTION · Mechmine predictive maintenance · NOVAGEAR

Thursday 26/02/2026 — Room No. 406, HWZ University, Lagerstrasse 5, 8004 Zurich

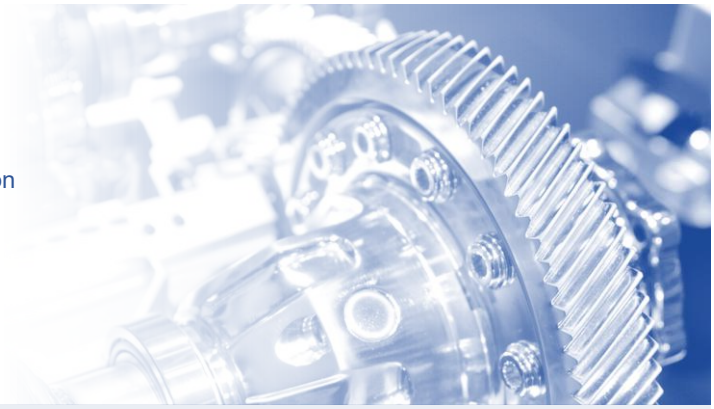
Time	Topic	Content	Lecturer
09:00-09:10	Opening	Welcome, introduction, information.	André Thuswaldner President Eurotrans
09:10-10:50	Gear Design Process	From the gearbox specification to the technical requirements for gears. Terms and geometric definitions of gears. Relevant Standards. Gear rating methods. Determination of gear types and gear parameters with their optimization goals, basic rack tooth profiles, tooth width, module, tooth numbers, helix angle, profile shift coefficients, profile and lead modifications. Types of gear materials, heat treatment and surface hardening methods, strength values, S-N fatigue properties, impact on design and costs. Quality requirements. Gear tolerances: definitions, classifications, standards.	Ing. Juerg Langhart KISSsoft AG
10:50-11:20	Break		
11:20-12:20	Bridging the Gap between Gear Design and Manufacturing Reality	Successful transmission design relies not only on analytical strength and kinematic calculations but also on a clear understanding of gear manufacturing. This presentation connects gear design with hard-finishing technology to help designers make informed, manufacturable decisions early in the development process. The talk – divided into two sections – provides a structured overview regarding the scope and inherent limitations of key hard-finishing processes, including continuous generating gear grinding, profile grinding, and hard-skiving. The session explains how process selection affects flank geometry, surface integrity, and production robustness, emphasizing that early design choices can significantly lower manufacturing costs and risks.	Ing. Walter Graf Reishauer AG
Lunch			
13:20-14:20	Bridging the Gap between Gear Design and Manufacturing Reality	By exploring advanced capabilities like polish grinding and NVH reduction, the presentation shows how a manufacturing-aware design approach can enhance gear quality, boost transmission performance, and cut unnecessary costs.	Ing. Walter Graf Reishauer AG
14:20-14:45	Break		
14:45-15:45	Bevel Gears and Crown Gears	Basic principles, key properties, and common design types. Gear design and sizing, as well as the advantages and disadvantages of each gear type. Comparison between bevel and crown gears and presents practical application and implementation examples.	Ing. Juerg Fuerst Balance Drive AG
15:45-16:00	Data Exchange	How to optimize communication between design and production, data formats and data flow, software solutions (REXS, CAD/CAM, GDE), relevant standards.	Ing. Juerg Langhart KISSsoft AG
18:30	Evening Program (optional)	Zurich at Night + Networking Dinner Meeting Point: Zurich Main Station (Zurich HB)	

Friday 27/02/2026 — Room No. 208, HWZ University, Lagerstrasse 5, 8004 Zurich

Time	Topic	Content	Lecturer
09:00-09:50	Retaining Expert Knowledge	When experienced employees retire, companies risk losing critical know-how. This is where Digital Walter comes into action. He is the assistant that makes expert knowledge searchable - finding the right spot in videos and documents, instantly, AI-powered and in any language. We demonstrate how gear experts record their work hands-free with bodycams, and how the system instantly turns it into multilingual instructions.	Ing. Michael Blickensdorfer Rimon Technologies AG Ing. Marcel Hautle Sauter, Bachmann AG
09:50-10:10	Break		
10:10-10:50	Predictive Maintenance	Standards - references for the gear industry. Evaluation and interpretation of measuring data. Acceptance code for gears. AI in practice, today & tomorrow.	Dr. Rudolf Tanner Mechmine LLC
10:50-11:30	Gear Drawings	The drawing - a complete definition. Relevant standards. Drawing structure, basic geometry data, macro and micro geometry data. Tolerancing. Specification of material, heat treatment, surface condition, coatings, quality requirements.	Ing. André Thuswaldner Novagear AG
Lunch			
12:20-13:20	Bus transfer from Zurich to Grob AG, Staempfelfeld 3, 6244 Nebikon		
13:30-15:15	Manufacturing Live	Demonstration of various manufacturing methods. Discussion with gear manufacturing experts.	Ing. Rafael Fellmann CEO Grob AG
15:15-15:45		Summary, conclusion, survey.	Ing. André Thuswaldner Novagear AG
15:50-17:00	Bus transfer from Nebikon to Zurich Main Station		

EUROTRANS

European Committee of Association of Manufacturers of Gears and Transmission Parts



Costs

EUR 1’050.- (CHF 950.- plus VAT) for members of Eurotrans partner associations.
EUR 1’350.- (CHF 1’200.- plus VAT) for non-members.
EUR 300.- (CHF 280.- plus VAT) for students.

Eurotrans partner associations are AGORIA (Belgium), ARTEMA (France), ASSIOT/FEDERTEC (Italy), BGA (United Kingdom), MIB (Türkiye), SWISSMEM (Switzerland), TIF (Finland) and VDMA (Germany).

The costs cover the complete training package, including 2 x lunch, refreshments throughout the days, 1x evening program with 1 x dinner and bus transfer between Zurich and Nebikon.
Hotel and travel expenses are **not** included.

Accommodation

Each participant is responsible for arranging and booking his own accommodation.
We recommend the following hotels close to the HWZ University:

- Hotel Olympia Zurich***, Badenerstrasse 324, 8004 Zurich
- Hotel Montana Zurich***, Konradstrasse 39, 8005 Zurich
- Hotel California Zurich***, Schifflande 18, 8001 Zurich
- easyHotel Zurich Main Station**, Klingenstrasse 33, 8005 Zurich
- ibis budget Zurich City West*, Technoparkstrasse 2, 8005 Zurich

Registration

Please send an email to training@novagear.ch with following information: Your first and second name, occupation/function, company name, postal address, participation in evening program yes/no.
You will receive a confirmation with the training program and invoice.

Registration closes February 18, 2026.
Number of participants is limited. Registrations will be considered in the order in which they are received.

Cancellation

No charge, if cancelled at least 7 days before the start of the training.
No refund will be made for cancellations received less than 7 days before the start of the training, however replacement of a registered person is possible.

Contact

This EUROTRANS Gear Training is organized in cooperation with Novagear AG.
For information and support email to: training@novagear.ch
(Mr. André Thuswaldner)