EUROTRANS GEAR TRAINING 2026
"GEOMETRY AND DESIGN"
7 – 11 December 2026

A COMPLETE GEAR TRAINING PROGRAM ON MASTER LEVEL (English spoken)

EUROTRANS, the European platform for the Gears and Transmissions sector, has developed an extensive and all-encompassing modular Gear Training Program. This program is organized in three European countries: Belgium, Germany and the UK. Meanwhile 21 trainings have been organized with over 320 participants. Provided with top gear trainers, the training covers every possible aspect in their domain – from geometry and design, through production, to quality control and failure analysis.

In December of this year, it is time for another edition of **the module on Geometry and Design**. This module is organized in Munich in close collaboration with FVA GmbH and the University of Munich FZG, Germany.

GEOMETRY & DESIGN 7 DECEMBER – 11 DECEMBER 2026

Please find the detailed program for this week below. If you wish to subscribe, please use the registration form at the end of this folder.

Venue?	Business Campus, Parkring 4, 85748 Garching, Germany
Accommodation?	Room reservations should be made **directly** with the hotel. Accommodation is **not** included in the price of the training.
Social program?	The training package **includes** evening **diners** and **social activities** such as a guided walk through the city centre of Munich and a visit of the laboratories of the Gear Research Centre (FZG) at the Technical University of Munich. The social program can be subject to changes.

AGENDA

PROGRAM Eurotrans Gear Training – Geometry & Design – December 7 to 11, 2026

MONDAY 07/12 AM – travel and start of the training			
Monday 07/12	13:00 – 14:30	Dr. Wirth	**GEAR GEOMETRY** Geometry of involute gearing Spur and helical gears, basic definitions of single gear, gear pairs, mesh
	14:30 – 14:45 Break		
	14:45 – 17:30	Dr. Wirth	Spur and helical gears, basic definitions of single gear, gear pairs, mesh
	No joint diner		
Tuesday 08/12	08:30 – 10:40	Dr. Wirth	Variant gear systems 'Special gears': bevel gears, conical gears, worm gears, general kinematics, basic definitions Plenatary gears: kinematics, powerflow, efficiency
	10:40 – 11:00 Break		
	11:00 – 12:15	Dr. Wirth	'Special gears': bevel gears, conical gears, worm gears, general kinematics, basic definitions Plenatary gears: kinematics, powerflow, efficiency
	12:15 – 13:15 Lunch		
	13:15 – 14:30	Dr. Thomas Tobie & Michael Geitner	**MATERIAL & HEAT TREATMENT** Gear materials Selection of gear materials, heat treatment, SN-curve, damage line, strength values

	14:30 – 14:45 Break		
	14:45 – 17:00	Dr. Thomas Tobie & Michael Geitner	Selection of gear materials, heat treatment, SN-curve, damage line, strength values
	18:00 – 19:00 Visit of the laboratories of the Gear Research Centre (FZG) at the Technical University of Munich		
	20:00 – Joint diner		
Wednesday 09/12	08:30 – 9:10	Dr. Thomas Tobie & Michael Geitner	**GEAR RATING** Basic rating practice Introduction of gear rating, relevant stress parameters, rating of bending, pitting, scuffing, slow speed wear, micro pitting and flank breakage
	09:10 – 9:55		
	10:00 – 10:40		
	10:40 – 11:00 Break		
	11:00 – 11:35	Dr. Thomas Tobie & Michael Geitner	Introduction of gear rating, relevant stress parameters, rating of bending, pitting, scuffing, slow speed wear, micro pitting and flank breakage
	11:40 – 12:15		
	12:15 – 13:15 Lunch		
	13:15 – 14:00	Dr. Thomas Tobie & Michael Geitner	**TEST METHODS** Oil tests Influence of lubricants on gear load capacity, test methods and test results, introduction of test results in gear rating practice
	14:00 – 14:30		
	14:30 – 14:45 Break		

	14:45 – 15:30	Dr. Thomas Tobie & Michael Geitner	Influence of lubricants on gear load capacity, test methods and test results, introduction of test results in gear rating practice
	15:30 – 16:00		
	16:00 – 16:15 Break		
	16:15 – 17:00		
	18:00 – 19:00 Guided tour Munich		
	20:00 – Joint diner		
Thursday 10/12	09:00 – 10:00	Dr. Ferdinand Wikidal	**GEAR GEOMETRY** Gear corrections Profile and lead corrections, load distribution, vibration excitation
	10:00 – 11:15		
	11:15 – 11:30 Break		
	11:30 – 12:15		
	12:15 – 13:15 Lunch		
	13:15 – 13:45	Dr. Ferdinand Wikidal	**GEAR RATING** Standard gear rating Standardized gear methods in ISO, bending, pitting, scuffing, micropitting - examples
	13:45 – 14:15		
	14:15 – 14:45		
	14:45 – 15:00 Break		

	15:00 – 15:45	Dr. Ferdinand Wikidal	Standardized gear methods in ISO, bending, pitting, scuffing, micropitting - examples
	15:45 – 16:30		
	16:30 – 16:45		
	20:00 – Joint diner		
Friday 11/12	**08:00** – 10:40	Dr. Ferdinand Wikidal	**GEAR RATING** Program codes Application of standard gear rating methods - examples
	10:40 – 11:00 Break		
	11:00 – 11:30		End of lectures

PARTICIPATION FEE

- 2300 € (vat excl.) per person for early bookings at least **30 days before** the start of the training
- 2500 € (vat excl.) per person for late bookings at least **7 days before** the start of the training
- **2900 € (vat excl.) per person for organisations non-member of EUROTRANS associations disregarding date of registration**

From the 2nd and consequent inscription from the same company, a 150€ reduction will automatically be granted.

CANCELLATION CONDITIONS

> No charge if cancelled at least 30 days before the start of the course

> For cancellations at least 7 days before the start of the course, 50% of the inscription fee will be refunded

> No refund will be made for cancellations received after 7 days before the start of the course, however replacement of a registered person is possible

> **In case of insufficient inscriptions the course will be cancelled and refunded**

HOTEL INFORMATION

>> Please confirm your room reservation directly to the hotel preferably one month before the start of the course. Accommodation is NOT included in the price of the training!

We recommend the following hotel:

Motel One
Daimler Strasse 5a
85748 Garching near Munich

REGISTRATION FORM

>> Please register by using following link

.AGORIA

EURO TRANS