



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

Although the power transmission engineering industry is an important industry branch, universities fail to develop appropriate courses. In Europe, a mechanical engineer gets on average 5 hours of gear training. This is far too less to be effective in industry. Moreover, gear trainers are becoming rare due to retirement and non replacement. Therefore, EUROTRANS identified the remaining top gear trainers and developed an extensive modular Gear Training covering all aspects from geometry and design over production to quality control and failure analysis. Addressing a European audience, this residential training is organised in several locations in close connection with famous laboratory. This training on **PRODUCTION** is also organised with Sirris and the University of Leuven.

PRODUCTION TECHNOLOGY 25 FEBRUARY – 1 MARCH 2019

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? Novotel Ghent Centrum
Hoogpoort 52 – 9000 Gent (Belgium)
- 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 Ghent and a visit of Sirris Ghent and the 'Materials Research Cluster Ghent' (date to be determined).
The social program can be subject to changes.

AGENDA

MONDAY 25/2 AM – travel and start of the training			
Monday 25/2	12:00 – 13:00 Welcome lunch		
	13:00 – 14:30	Bernard Vandewiele (BVDW)	Basic of hardening - Thermal Surface hardening Hardening principles - Introduction-flame-laser Basic of hardening: physical metallurgy, microstructure
	14:30 – 14:45 Break		
	14:45 – 17:00	Bernard Vandewiele	Basic of hardening - Thermal Surface hardening
	18:30 – Joint diner		
Tuesday 26/2	09:00 – 10:40	Bernard Vandewiele	Thermochemical case hardening processes Case hardening (detail)
	10:40 – 11:00 Break		
	11:00 – 12:15	Bernard Vandewiele	Thermochemical case hardening processes
	12:15 – 13:15 Lunch		
	13:15 – 14:30	Bernard Vandewiele	Thermochemical case hardening processes)
	14:30 – 14:45 Break		
	14:45 – 17:00	Bernard Vandewiele	Thermochemical case hardening processes
	18:30 – Joint diner		
Wednesday 27/2	09:00 – 9:10	Yvo Quintiens (Blancquaert <i>tools</i>)	Basics to know
	09:10 – 9:55	Dr. Türich (Gleason)	Gear Basics
	10:00 – 10:40	Mr. Klein (Gleason)	Gear Hobbing – Part 1
	10:40 – 11:00 Break		
	11:00 – 11:35	Mr. Klein	Gear Hobbing – Part 2
	11:40 – 12:15	Mr. Kreschel (Gleason)	Gear Shaping
	12:15 – 13:15 Lunch		
	13:15 – 14:00	Mr. Kreschel	Power Skiving

	14:00 – 14:30	Dr. Momper (Gleason)	Gear Cutting Tools
	14:30 – 14:45 Break		
	14:45 – 15:30	Dr. Momper	Gear cutting tools
	15:30 – 16:00	Dr. Momper	Workholding for Gear Production
	16:00 – 16:15 Break		
	16:15 – 16:45	Mr. Klein	Chamfering & Deburring of gears
	16:45 – 17:00	Discussion	
	18:00 – 19:00 Guided tour Ghent		
	19:00 – Joint diner		
Thursday 28/2	09:00 – 10:00	Dr. Türich	Grinding Technology
	10:00 – 11:15	Mr. Klein	Gear Shaving
	11:15 – 11:30 Break		
	11:30 – 12:15	Dr. Türich	Gear Honing
	12:15 – 13:15 Lunch		
	13:15 – 13:45	Dr. Türich	Important Aspects of Premachining for hard finishing
	13:45 – 14:15	Dr. Klein	Decision criterias for hard finishing processes
	14:15 – 14:45	Yvo Quintiens	Gear inspection
	14:45 – 15:00 Break		
	15:00 – 15:45	Yvo Quintiens	Gear Hobbing of Large Module Gears
	15:45 – 16:30	Dr. Türich	Profile Grinding of Large Module Gears
	16:30 – 16:45	Discussion	
	18:30 – Joint diner		
Friday 1/3	09:00 – 10:40	Bert Lauwers (KU Leuven)	5 axe production of gears and new ways of production
	10:40 – 11:00 Break		
	11:00 – 12:15	Bert Lauwers	5 axe production of gears and new ways of production
	12:15 – 13:30 Closure lunch		
FRIDAY 1/3 PM – end of the training and travel			

REGISTRATION FORM

>> Form to be returned at least 7 days before the start of the course (or 30 days for early bookings) to Agoria, by e-mail to: comm-training@agoria.be, Bluepoint Brussels, bd A.Reyers ln 80, 1030 Brussels,

Surname, First Name

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Function

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Company

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Address

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E-mail

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Tel.

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VAT Nr

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PARTICIPATION FEE

2100 € (vat excl.) per person for early bookings at least **30 days before** the start of the training

2300 € (vat excl.) per person for late bookings at least **7 days before** the start of the training

2800 € (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 100€ reduction will automatically be granted.

The invoice will be sent to you upon receipt of your registration from Agoria.

Please mention if a purchase order number (PO number) is needed on your invoice.

Contact Agoria

comm-training@agoria.be, Marleen Poelmans, tel +32 495 50 11 84

jean-marc.timmermans@agoria.be, Jean-Marc Timmermans, tel +32 477 89 49 83

Invoice address if different from the above:

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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**

Date and Signature:

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:

▣ **Hotel Novotel Centrum Ghent**

Hoogpoort 52
B – 9000 GHENT
Tel: +32 9 224 22 30

Contact person: Sabine Callens
Direct tel: +32 9 265 97 11
E-mail: sabine.callens@accor.com

Block booking code: Agoria/Eurotrans

BOOKING BEFORE 31/1/2019

Single room: € 109 per person breakfast included (Sunday)
Single room: € 125 per person breakfast included (Monday-Friday)
City tax: € 3 per person/per night

Limited parking available under the hotel - entrance Hoogpoort 52
Only with reservation, please contact the hotel
Alternative parking Vrijdagmarkt (5 min walk to the hotel)