

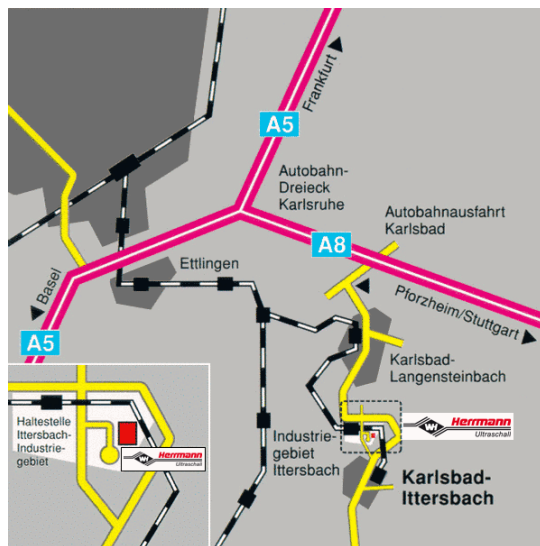


**Seminar rates:**

Basic seminar: 515 € per participant, including training manual, lunch and refreshments.

Expert seminar: 585 € per participant, including training manual, lunch and refreshments.

**The way to Herrmann Ultraschalltechnik:**



Herrmann Ultraschalltechnik GmbH & Co. KG  
Descostrasse 3-9 • 76307 Karlsbad, Germany  
Tel. +49 7248 79-0 • Fax +49 7248 79-39  
E-mail: [NW-seminar@herrmannultraschall.com](mailto:NW-seminar@herrmannultraschall.com)  
Internet: [www.herrmannultraschall.com](http://www.herrmannultraschall.com)

Place  
postage  
here

Herrmann Ultraschalltechnik GmbH & Co. KG  
Descostr. 3-9  
76307 Karlsbad  
GERMANY

**ULTRASONICS**

**MASTERED BY ONLY  
A FEW SPECIALISTS**



**BASIC SEMINAR 2010  
EXPERT SEMINAR 2010**

**ULTRASONIC BONDING SYSTEMS  
FOR NONWOVENS**



### Who Should Attend:

- Machine operators and setters
- Maintenance personnel
- Production engineers
- Project-related personnel
- R & D personnel

Seminars provide an overview of the latest research and development in continuous ultrasonic bonding. Attendees will learn how to apply state-of-the-art ultrasonic technology to continuous lamination and bonding. A major focus will be on maximizing bond quality and consistency with inherently variable materials. All attendees are encouraged to bring their materials and/or drawings for consultation and discussion

# MICROGAP control

### BASIC SEMINAR

#### Outline:

8.30 a.m. to 9.45 a.m.

- Presentation Herrmann Ultraschalltechnik
- Fundamentals of ultrasonics

9.45 a.m. to 10.00 a.m. coffee break

10.00 a.m. to 12.00 a.m.

- Ultrasonic bonding
- Machine technology
- Analysis of welding structure

12.00 a.m. to 1.00 p.m. lunch break

1.00 p.m. to 2.00 p.m.

- Discussion and questions

2.00 p.m. to 5.00 p.m.

- Lab tests

### Basic seminars 2010:

Thursday, March 25, 2010

Thursday, May 20, 2010

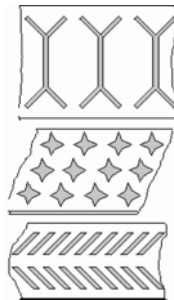
Thursday, July 8, 2010

Thursday, September 23, 2010

Thursday, October 11, 2010

Other dates available upon inquiry.

We also offer in-house trainings.



### EXPERT SEMINAR

Expert seminar requires participation in basic seminar.

#### Outline:

8.30 a.m. to 9.45 a.m.

- Digital control
- Generator parameters

9.45 a.m. to 10.00 a.m. coffee break

10.00 a.m. to 12.00 a.m.

- Parameter definition
- Software-Updates for digital control and generator
- Ultrasonic acoustics

12.00 a.m. to 1.00 p.m. lunchbreak

1.00 p.m. to 3.00 p.m.

- Error detection and systematic malfunction search
- Component change
- External influence on the welding process

3.00 p.m. to 5.00 p.m.

- Open discussion

### Expert seminars 2010:

Thursday, June 24, 2010

Thursday, October 7, 2010

Other dates available upon inquiry.

We also offer in-house trainings.

### NON-CONTACT/NON-WEAR

For further information please send in attached inquiry card or check our website:

[www.herrmannultraschall.com/trainings.html](http://www.herrmannultraschall.com/trainings.html)



### Ultrasonic Bonding Systems for NONWOVENS

Registration for the basic-/expert seminar on \_\_\_\_\_ in Karlsbad-Ittersbach.  
basic-/expert-seminar fee: 515 € / 585 €.

I cannot take part in the seminar, however, am interested in further information and/ or Workshops.

Please send me more information on Ultrasonic Bonding Systems for NONWOVENS.

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Professional function: \_\_\_\_\_  
 Project-related personnel  R & D personnel  
 Production engineers  Maintenance personnel  
 Machine operators and setters  others: \_\_\_\_\_  
Street/ Nr.: \_\_\_\_\_ ZIP/ City: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Please send or fax your registration for the basic / expert seminar or your inquiry to:



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