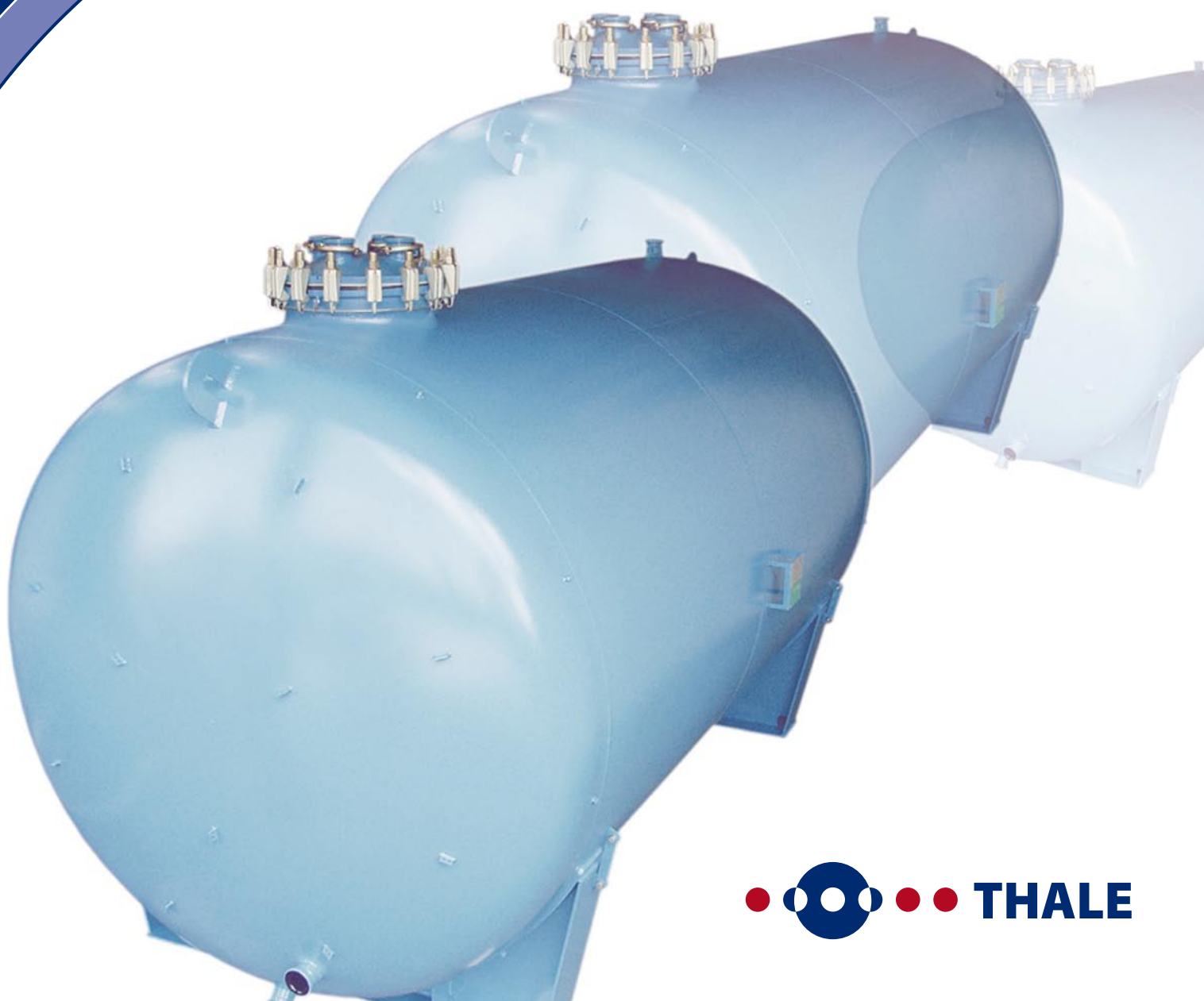


**DIN-vessels BL-LE**  
**Horizontal, capacity from**  
**1 up to 100 m<sup>3</sup>, according**  
**to DIN 28018 and 28019**



# VESSEL TYPE BE / LEA

**1 to 10 m<sup>3</sup> – DIN 28018**  
**12.5 to 100 m<sup>3</sup> – DIN 28019**

## Standard Design

Pressure: inner vessel -1/6 bar  
Jacket -1/6 bar  
Temperature: -25/+200 °C  
Code: AD specifications, ASME IFBT test mark  
(according to media list BAM)  
Version: DGRL 97/23/EG  
Module G

## Materials

Vessel: P 275 NH (1.0487)  
Glass-lining: RAS GLASS®  
Clamp bolts: 24CrMo5, surface-treated  
Gaskets: PTFE-enveloped flat seal  
according to DIN 28148

## Inspection

Water pressure test according to AD specification  
Glass-lining test according to DIN 28063  
High-voltage test 20 kV/12 kV

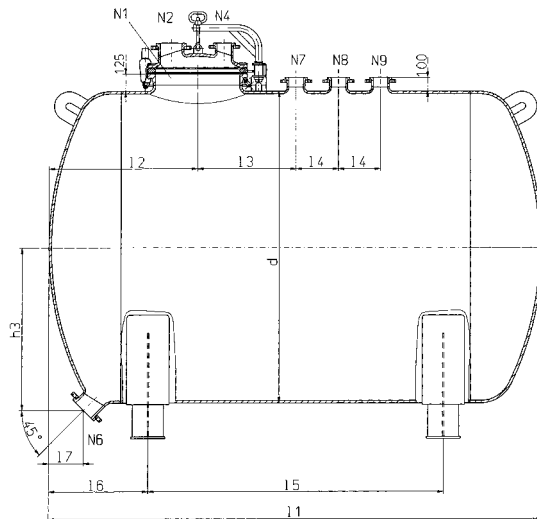
## Construction

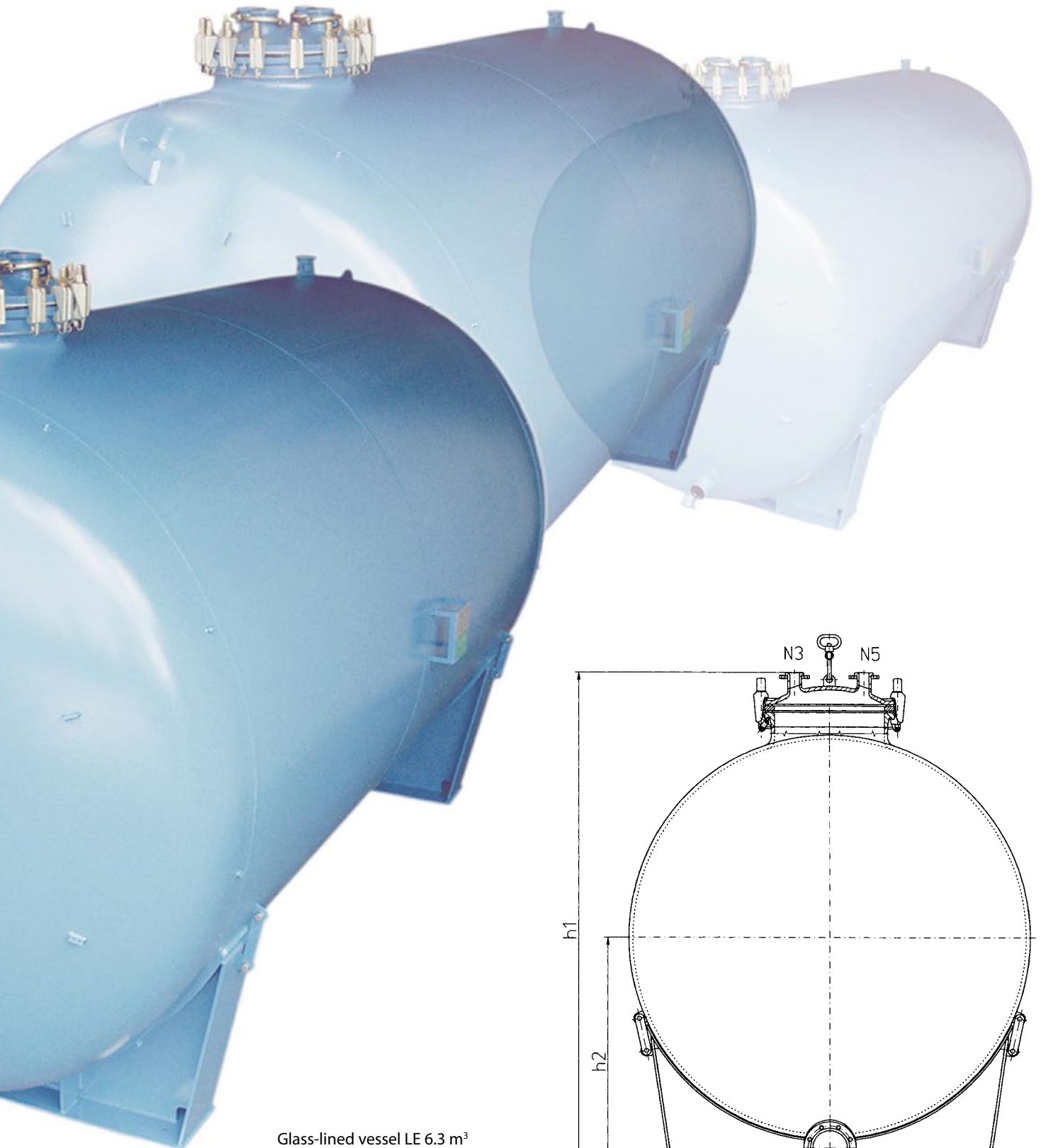
Saddle according to DIN 28080  
Working hole with protective ring  
and opening device

## Order example

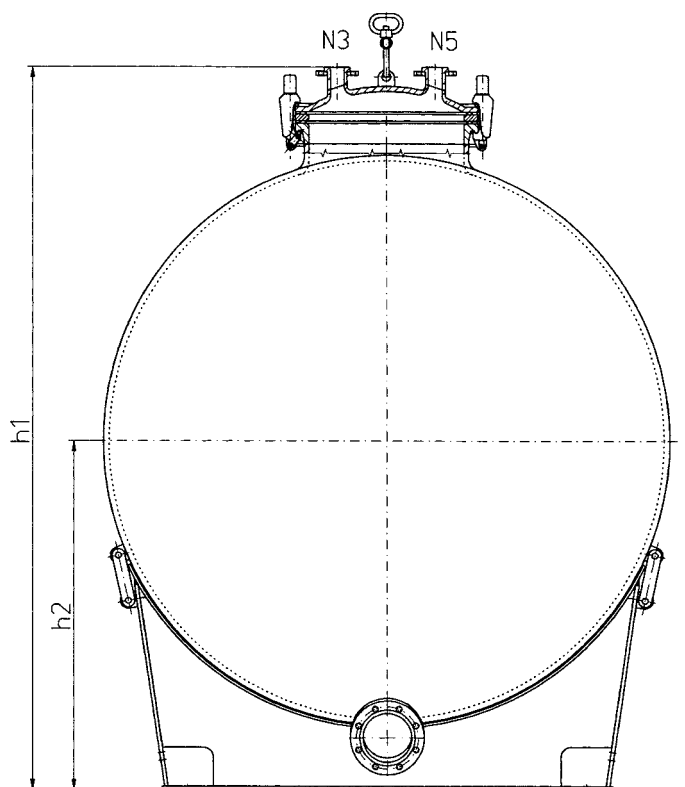
### Vessel LE – 1.6 – 1200

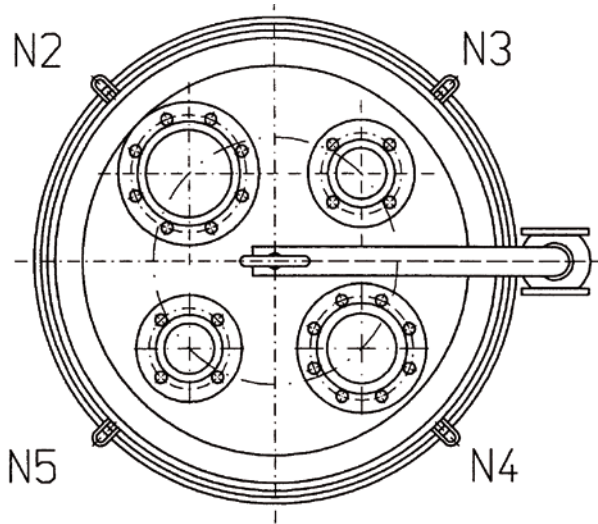
Horizontal vessel type LE  
Nominal capacity 1.6 m<sup>3</sup>  
Nominal diameter 1200 mm





Glass-lined vessel LE 6.3 m<sup>3</sup>  
with saddle arrangement





*Plan view of working cover with protective ring and swivelling device*



*Computer-controlled flame-cutting robots guarantee high-precision synchronous cutting resulting in neck and nozzles that fit with absolute precision*



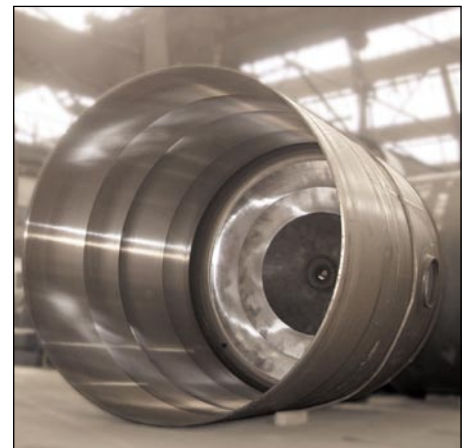
*Our inside grinding machine for bodies, dished ends and nozzles works entirely automatically. Perfectly ground steel surfaces form the ideal base for the glass-lining*



*Our submerged-arc automatic welding machine does material-friendly welding based on minimal heat effect for up to 100 m of weld seams per unit*



*Perfect combinations of vessels and pipe fittings from Thale*



*Thale Email supplies glass-lined vessels worldwide in even the very largest sizes*

# DIMENSIONS

Nominal capacity	Total capacity	Nominal diameter	l1	l2	l3	l4	l5	l6	l7	h1	h2	h3	weight
m <sup>3</sup>	l	d											= kg
1	1260	1000	1800	750	-	-	1000	400	50	1525	700	550	900
1,6	1800		2500				1700						1100
	1770	1200	1800	800	500	250	900	450	85	1725	800	655	1200
2,5	2870		2800				1900						1500
	2650	1400	2000	850	550	250	1000	500	120	1925	90	755	1700
4	4460		3200				2200						2400
	4400	1600	2500	900	600	300	1300	600	160	2175	1050	860	2300
6,3	7300		4000				2800		135				845
	7240	1800	3200	950	600	700	1800	700	170	2400	1150	945	3300
8	9240		4000				2600						2600
	8870	2000	3200	1000	500	750	1700	750	210	2600	1250	1045	3700
10	10420	1800	4500	950			3000		170				2400
	11310	2000	4000	1000	600	350	2500	650	210	2600	1250	1045	4300
12,5	14410		5000	3700			210						2600
	13620	2200	4000	1050	600	350	2700	650	245	2800	1350	1150	5800
16	17315		5000	3700			245						2800
	18330	2400	4500	1300	600	350	3100	700	280	3000	1450	1250	6300
20	23180		5600				4200						280
	21330	2600	4500	1100	600	350	2900	800	320	3200	1550	1350	7700
25	27020		5600				4000						320
	27535	2800	5000	1200	600	350	3300	850	360	3400	1650	1450	9900
32	28050	3000	4500	1250			2700	900	395	3600	1750	1550	10200
	35915	2800	6400	1200	4700	850	360	3400	1650	1450	12000		
35625	3000	5600	1250	600	350	3800	900	395	3600	1750	1550	12300	
40	45495	2800	8000			1200	6300	850	360	3400	1650	1450	12900
	46645	3000	7200	1250	600	350	5400	900	395	3600	1750	1550	13200
50	52150		8000				6200						900
	52785	3200	7200	1400	600	350	5200	1000	435	3800	1850	1645	16000
63	65925	3000	10000	1250			8200	900	395	3600	1750	1550	1550
	66875	3200	9000	1400	600	350	7000	1000	435	3800	1850	1650	17500
80	93815	3600	10000				7600	1200	510	4200	2050	1850	26000
	115250	4000	1500	590	4600	2250	2050	29500					

Nominal capacity	Nominal diameter	Nozzle (DN)						
		N1	N2	N3, N5	N4	N6	N7, N8	N9
1	1000	500	100	50	80	100	80	-
1,6	1200							
2,5	1400							
4	1600							
6,3	1800	600	150	80	100	150	100	-
8	2000							
10	1800							
12,5	2000							
16	2200							
20	2400							
25	2600							
32	2800							
	3000							
40	2800							
	3000							
50	3000							
	3200							
63	3000							
	3200							
80	3600							
100	4000							

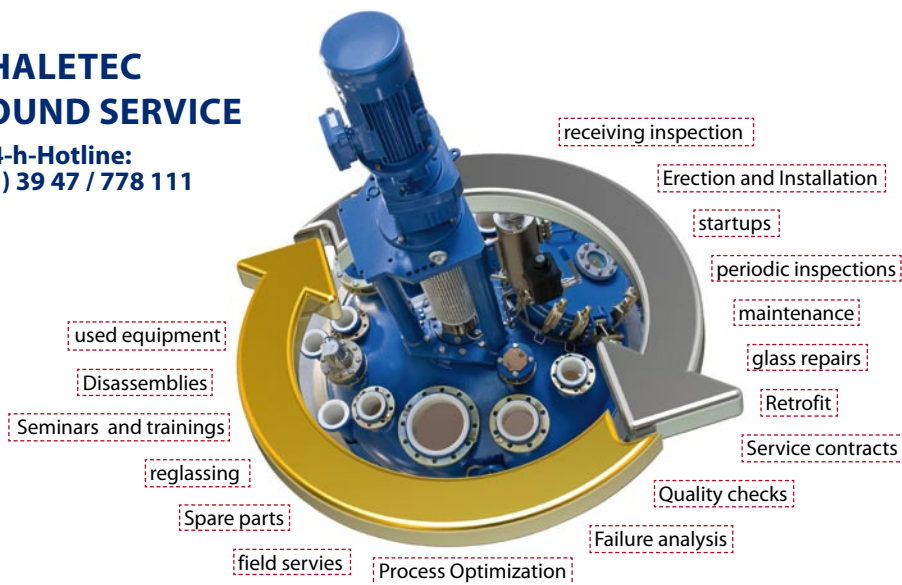
We would like to advise you regarding the advantages of glass lined equipment like:

- Glass lined reactors acc. to DIN 28136
- Glass lined Pharma Reactors
- Components for pharmaceutical and high purity applications
- Mixing technology for pharmaceutical and chemical industry
- Reactors for Polymerization
- Storage Tanks and Receivers
- Columns
- Heat Exchangers
- Sensor technology
- Accessories

[www.thaletec.com](http://www.thaletec.com)

## THALETEC ALL AROUND SERVICE

24-h-Hotline:  
+ 49 (0) 39 47 / 778 111



**THALETEC GmbH**

Steinbachstraße 3  
D - 06502 Thale

Telephone:

+ 49 (0) 3947-778 0

Facsimile:

+ 49 (0) 3947 778 110

[service@thaletec.com](mailto:service@thaletec.com)

[www.thaletec.com](http://www.thaletec.com)

