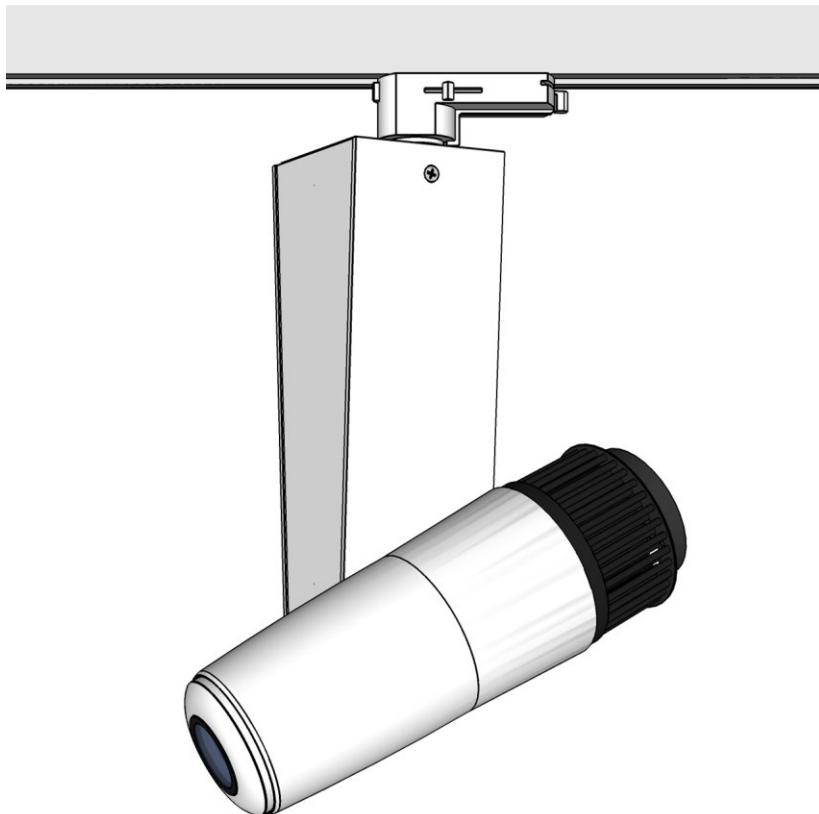


PHOS 40 LT

OPERATING INSTRUCTIONS



derksen®
lichttechnik

TABLE OF CONTENTS

Safety Instructions.....	4
Electrical Safety.....	4
Burns and Fire Safety.....	5
Safe Use of Lighting Tracks.....	5
Safety during installation and operation.....	6
Lamp Safety.....	6
Technical Overview of the projector and its components.....	7
Setting Up.....	8
Inserting the Gobo.....	8
Adjusting the Projected Image.....	9
Cleaning, Repair and Service.....	11
Installation.....	12
Dismounting.....	13
Technical Specifications.....	14
Configuration.....	14
Dimensions.....	15
Projection Size Chart.....	15

OPERATING INSTRUCTIONS

Thank you for deciding to purchase this high quality product. The PHOS 40 LT projector is produced exclusively in Germany and meets the highest standards of quality and safety. We hope you enjoy many fascinating hours with your new LED projector! To use the device effectively and safely, please read this operating instruction carefully first!



Package Contents:

- LED Projector PHOS 40 LT
- 4 mm Allen key for locking the projector
- Operating instructions

These optional accessories are available:

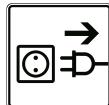
- Glass gobos, custom made according to your specifications

WARNING!

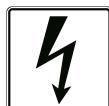
**Read the safety instructions
before operating the appliance or performing maintenance.**

SAFETY INSTRUCTIONS

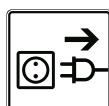
ELECTRICAL SAFETY



- Disconnect the lighting track system from the mains before you install or remove the LED projector or make modifications to the system.



- Verify that the voltage of the electricity supply system and the voltage of the device are compatible. To this end take note of the type label on the projector.
- Operate the unit only when completely assembled.
- The device may only be used in dry, closed rooms. Do not operate the device in a humid environment or near dripping or splashing water.
- Do not place any containers with liquids next to the device, such as flower vases or drinks. If the device comes into contact with any liquids it may result in electric shock or fire.
- If, despite all precautions, liquid is spilled into the unit, it must immediately be disconnected from the mains. Do not touch the housing - ingress of liquids may cause an electric shock! Turn on the power again, if you are sure that the device is thoroughly dried.
- If you hear unusual noises, see smoke or strong odor strikes, disconnect the track from the mains immediately and contact your technical service. Continued use could result in electric shock or fire.



BURNS AND FIRE SAFETY

- Do not operate the unit near easily flammable substances such as alcohol or benzine.
- Keep a safe distance of at least 0.3 m between the light emission at the front lens and combustible materials and surfaces.
- Avoid touching the hot device during operation. Turn the unit off and let it cool at least 10 minutes before servicing the unit or changing the gobo.
- The device is designed for normal room temperature. High ambient temperatures or direct sunlight may damage the unit.
- Make sure that the device is adequately supplied with fresh air, so that it does not overheat. Never cover the projector with objects.
- When the device is installed in a closed wall, ceiling or cabinet, ensure a sufficient supply of fresh air.



SAFE USE OF LIGHTING TRACKS

- Lighting tracks must be installed by a qualified electrician in accordance with the local safety regulations. Always follow the installation instructions that came with your lighting track system!
- Never install lighting tracks in a damp or wet location.
- Disconnect the track system from the mains before you install or remove the LED projector or make modifications to the system.
- The adapter is made from highly durable polycarbonate. Avoid contact with lubricants, solvents or cleaning solutions, because these may decrease the durability of the plastic.
- Cleaning: Unplug the lighting track system from the mains and use only a damp cloth.

SAFETY DURING INSTALLATION AND OPERATION



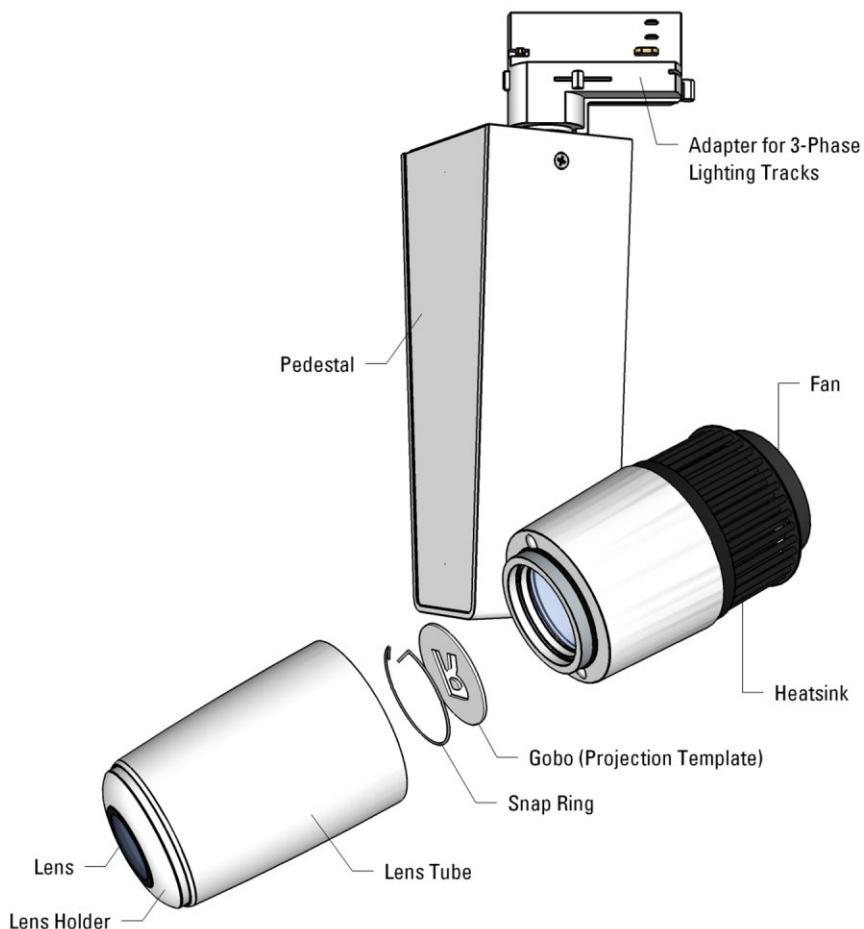
- Ensure that the supporting structure, such as ceiling, curtain wall or truss system, can carry at least four times the weight of the device, so at least 11.6 kg (safety factor 4). Observe the local safety regulations!
- Always use the appropriate mounting accessories according to the local conditions, such as anchors, screws, etc.
- Make sure that the lens tube and lens are attached firmly so that they can not fall down.
- Use only genuine accessories and spare parts from Derksen Lichttechnik, which have been specially developed for use with the device. Use only glass gobos, metal gobos or special color slides as projection templates.
- Do not alter, disassemble, or otherwise damage the projector, since otherwise it will no longer meet the safety requirements.

LAMP SAFETY

- As with any bright light source, do not look directly into the light beam of the LED! The projector complies with the European standard EN62471-5 and is classified as RG-2 (Risk Group 2) device.



TECHNICAL OVERVIEW

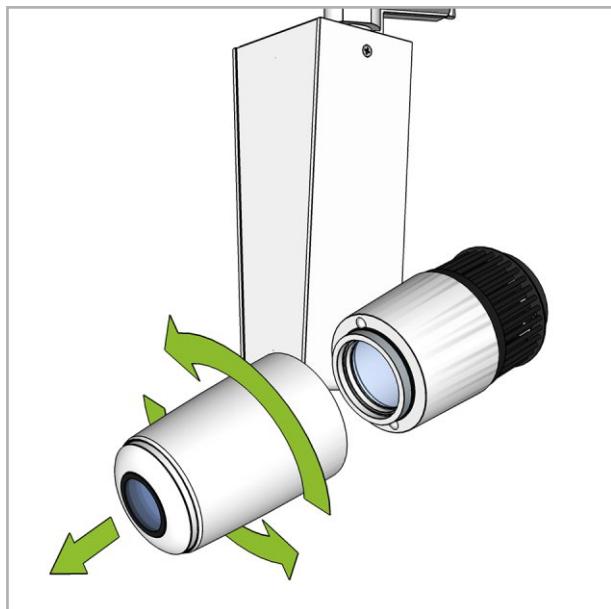


Technical overview of the projector and its components

SETTING UP

Step 1:

*Turn the lens tube
counterclockwise and
remove it from the
projector.*

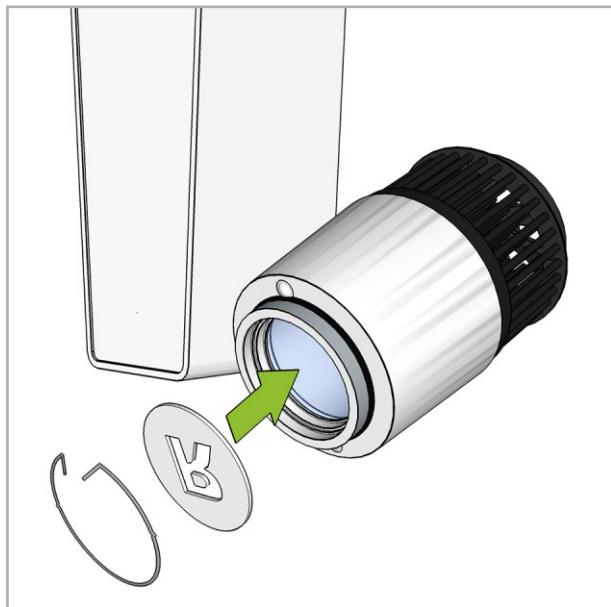


Step 2:

*Insert the gobo in the
light output of the
device.*

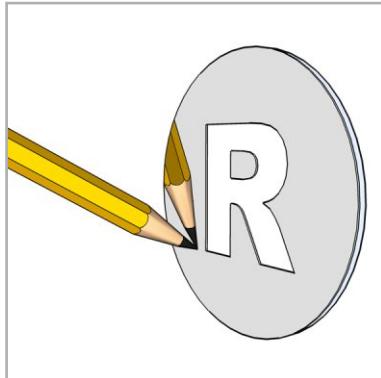
*Insert the snap ring in
the light output, while
squeezing it slightly.*

*Push the snap ring
inside until it fixes the
gobo.*

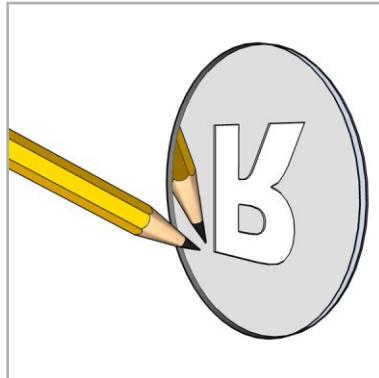


How to place a gobo correctly:

The coated side should face to the light source, the motif should be upside down.



Coated side: *the object is reflected directly and without a gap. The coated side should face the light source.*

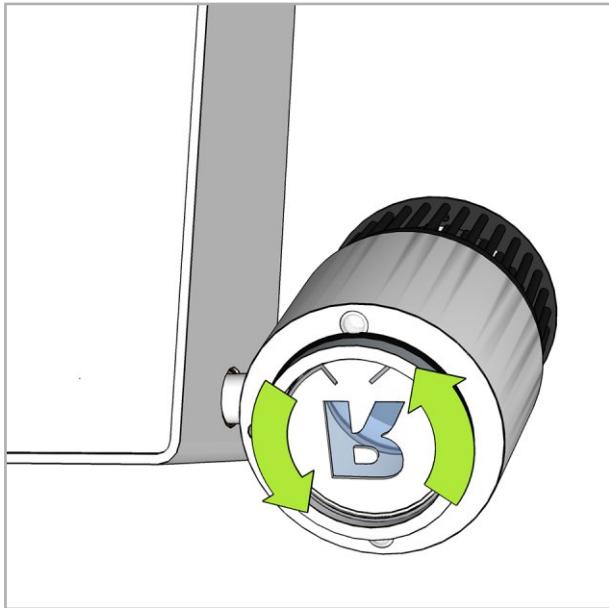


Glass side: *there is a small gap between the object and its reflection. The glass side should face the lens.*

- Put the lens tube on the projector and turn it clockwise until it is firmly attached.
- Switch the device on and align the projected image.
- Focus the projected image by turning the lens in the lens tube forward or backward (step 4).
- Eventually you need to align the projected image by rotating the gobo (step 3). Therefore, the lens tube must be removed again.

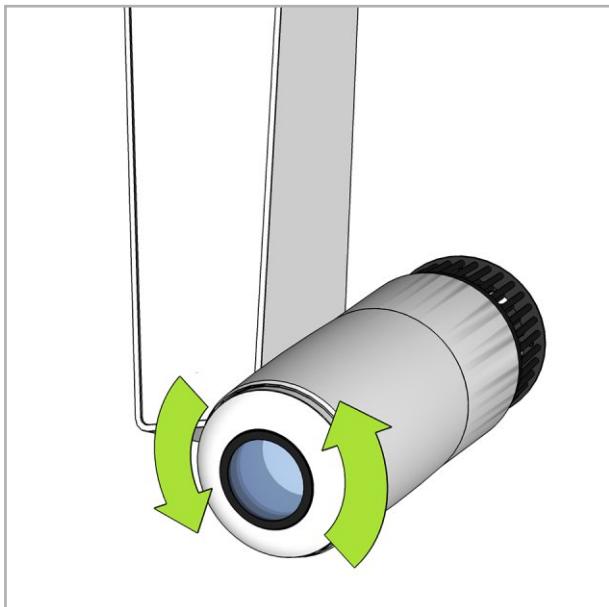
Step 3:

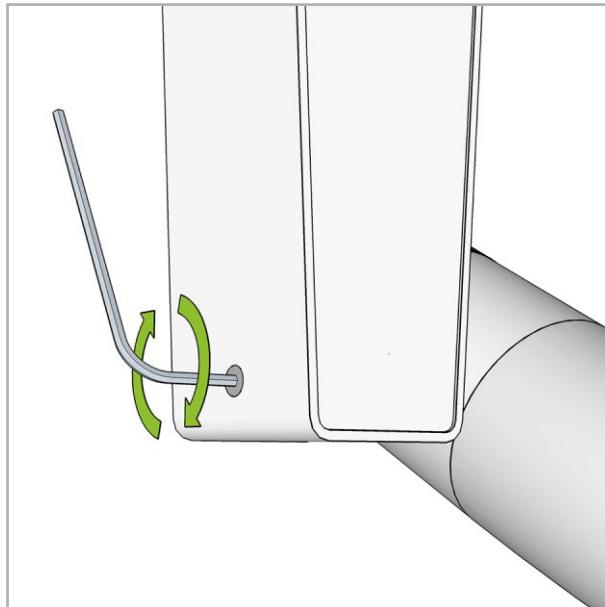
Rotate the gobo to align the projected image.



Step 4:

Focus the projected image by turning the lens.





Step 5:

Align the projector head and fasten the locking screw using the 4 mm Allen key.

Attention! Loosen the locking screw before turning the projection head!



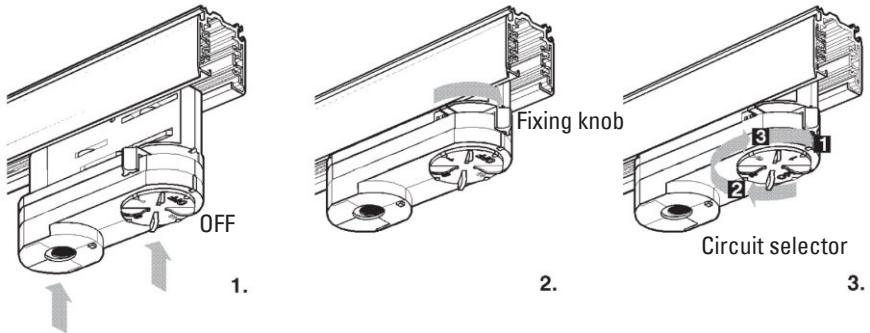
CLEANING, REPAIR AND SERVICE

- Clean the device only from the outside with a soft cloth. Do not use strong detergents or solvents such as alcohol or benzine.
- Use only optical cleaning cloths to clean the front lens.
- Repairs and cleaning of the inside may only be performed by a qualified service technician.
- Devices can be returned for service or repair directly to Derksen Lichttechnik GmbH. Transport and ship the device in its original packaging. If this is not available anymore, you can use a cardboard box with adequate padding on the inside.
- Only use genuine spare parts from Derksen Lichttechnik.

INSTALLATION



- Do not shift the adapter in the track! To change the position of the LED projector, remove the adapter from the track and insert it in the new position.



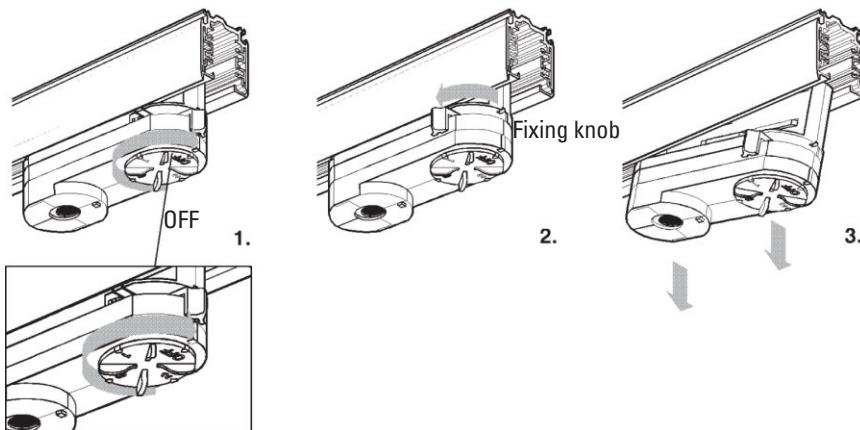
1. Push the adapter into the lighting track until it snaps into place.

2. Turn the fixing knob clockwise to lock the adapter firmly into the track.

3. Set the selector to the desired circuit (1 - 2 - 3).

DISMOUNTING

- Do not shift the adapter in the track! To change the position of the LED projector, remove the adapter from the track and insert it in the new position.



1. Turn the circuit selector to the "OFF" position.
2. Turn the fixing knob counterclockwise to unlock the adapter. Note: The adapter can only be unlocked when the circuit selector is set to the "OFF" position.
3. Pull the adapter with the end of the locking lever first out of the track.

TECHNICAL SPECIFICATIONS

item:	PHOS 40 LT
housing:	Aluminium
available colours:	silver, black, white
weight:	2.95 kg
on / off switch:	not available
environmental conditions:	for dry indoor environments only
pivot range:	ca. 300° vertical, ca. 335° horizontal
cooling:	active cooling, fan
light source:	40 W High Power LED
recommended projection distance in normal room light:	4 m
recommended projection distance in darkness:	10 m
average lifetime of the LED:	35,000 operating hours
colour temperature:	6,500 - 8,000° Kelvin
luminous flux of the LED:	2,700 lumens
gobo size / image size:	50 mm Ø / 42 mm Ø
voltage:	100 - 240 V AC, 50 / 60 Hz
active power (power consumption):	48 W
apparent power:	96 VA
efficiency:	0.5 cos. φ
electrical protection:	protection class I
ingress protection rating:	IP 20
photobiological safety according to ICE62471:2006 EN62471:2008:	RG-2
item number:	
silver	20002430
black	20002420
white	20002410

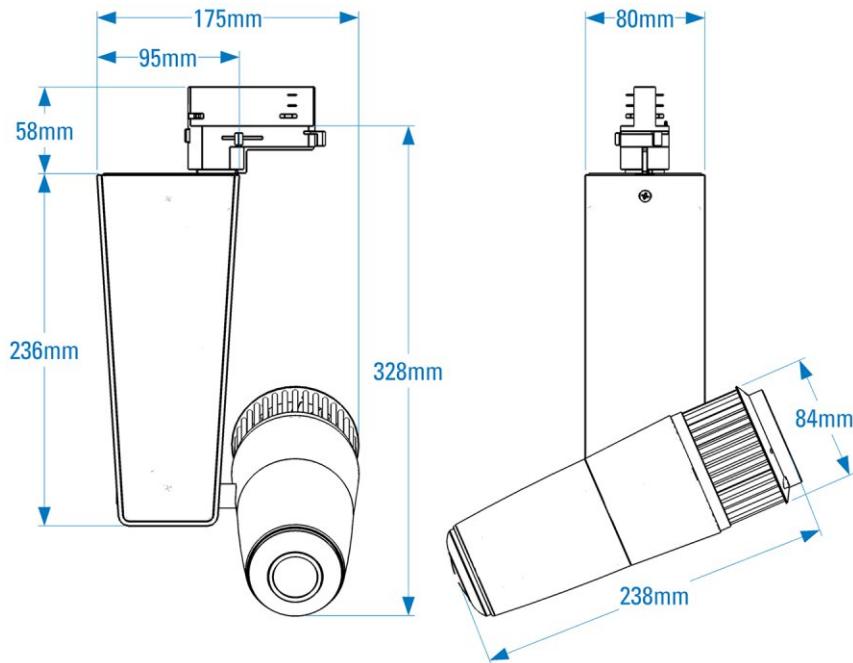
Configuration

Standard series with high power LED, 85 mm standard lens, adapter to mount the projector on a 3-phase lighting track. The machine is ready to run. Required accessories: glass gobo with individually designed motif.

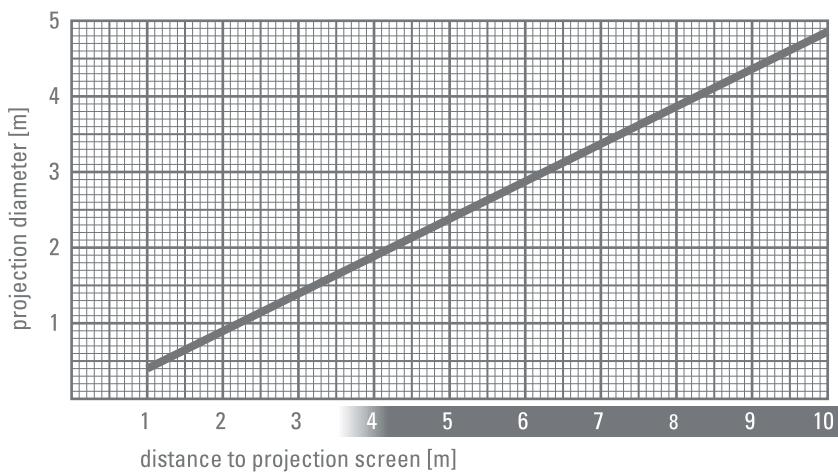
CE IP 20



Dimensions



Projection diameter with increasing distance



We reserve the right to make technical and optical modifications.
Our general terms and conditions apply.

derksen®

lichttechnik

Derksen Lichttechnik GmbH

Sauerlandstraße 5

45889 Gelsenkirchen

Germany

Telefon: +49 (0) 2 09 / 9 80 70-0

Telefax: +49 (0) 2 09 / 9 80 70-60

info@derksen.de

www.derksen.de