

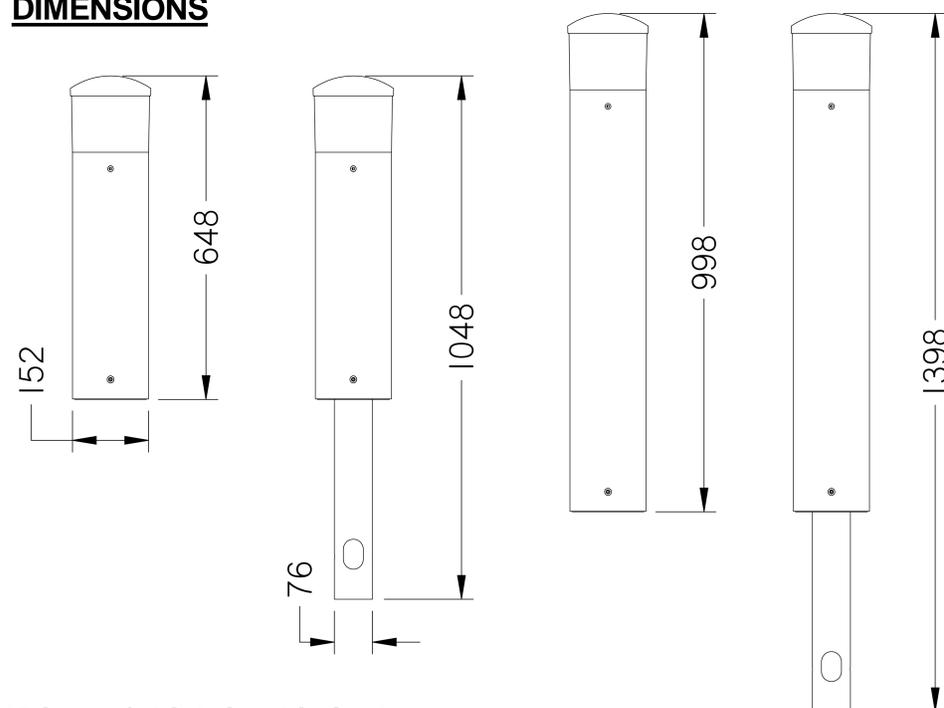
GENERAL INFORMATION

1. A qualified electrician, in accordance with IEE wiring regulations should carry out connection to mains wiring.
2. Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
3. Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
4. The light source contained in the luminaire shall only be replaced by the manufacturer or a designated service agent or a suitably qualified person.
5. Batteries used in emergency version of this luminaire range are replaceable by a qualified electrician.
6. If used, ensure that the DALI control cable has an equivalent insulation rating as the LV supply cable. The DALI control cable must be double insulated.

SPECIFICATION

Lumen outputs & wattages (TBC)	400lm (4W), 750lm (6W), 1500lm (12W)
Finish	RAL9005 Black textured, RAL9006 Silver textured
Materials	Aluminium (Top cover, body), Steel (Base plate, root mount, reflector, geartrays, screws & fixings), Polycarbonate (Diffuser, plastic pins, glands), Acrylic (Diffuser), ABS (IP Box)
Weight (TBC)	0.5m Root (7.5kg), 1.0m Root (9.3kg), 0.5m Flange (5.5kg), 1.0m Flange (7.3kg)
Supply	220-240v ac50-60Hz
Connection (5 core plug)	Cable section: 5 core-0.5mm ² to 1.5mm ² (6mm strip length)
Connection (6 core plug)	Cable section: 6 core-0.2mm ² to 2.5mm ² (8mm strip length) TORX6-KEY REQUIRED FOR PLUG. (TORX T6 SCREW HEAD)
Ingress/Impact protection	IP66, IK10
Temp Range	-5°C to +35°C

DIMENSIONS



Whitecroft Lighting Limited

Burlington Street, Ashton-under-Lyne, Lancashire OL7 0AX

Telephone: +44 (0)161 330 6811

Registered No: 3848973 England

Technical Support

Telephone: 0161 331 5700

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KOLO BOLLARD



Installation Instruction

PK/ASHTONBL/IL

JAN 2023 - Rev 8



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KOLO BOLLARD

High Voltage LED's



Electrostatic Sensitive Device

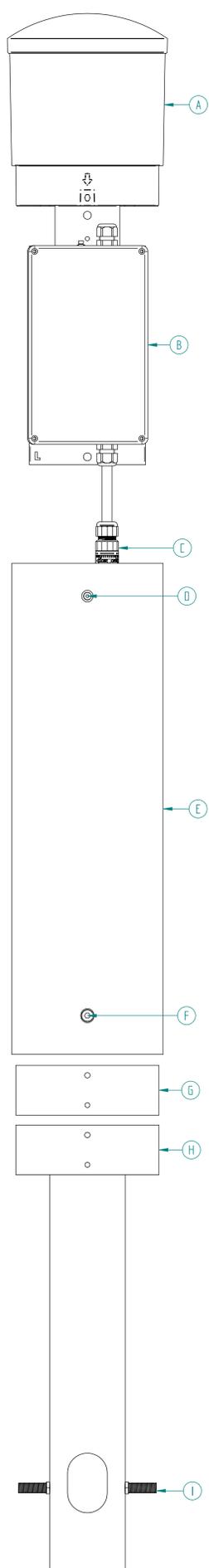
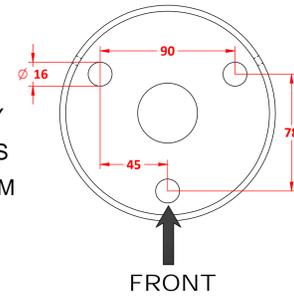


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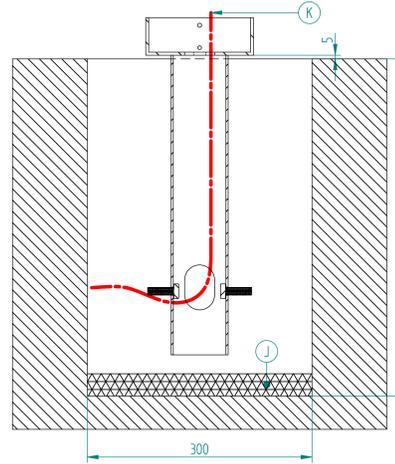
REMOVE ALL PACKAGING AND ENSURE THERE IS NO DAMAGE TO THE PRODUCT. REPLACE PACKAGING WHILST INSTALLING TO PREVENT CAUSING DAMAGE.

IMPORTANT ORIENTATION INFORMATION.

IT IS IMPORTANT THAT THE ROOT/FLANGE MOUNT ARE CORRECTLY POSITIONED WHEN INSTALLED. POSITION 1 OF THE 3 FIXING POINTS TO WHERE THE FRONT OF THE PRODUCT SHOULD BE. SEE DIAGRAM TO THE RIGHT.

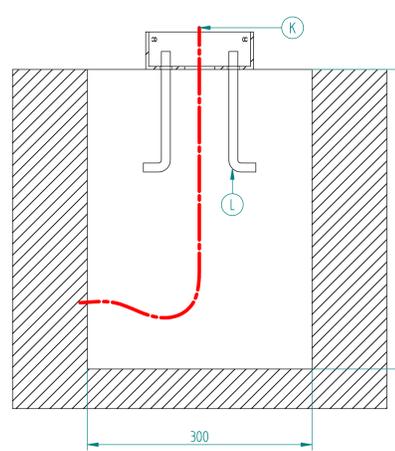


ROOT MOUNT INSTALLATION.



- o Dig a hole at least 300 X 300 X 450mm deep. A gravel layer (J) at the bottom is recommended for better drainage.
- o Remove root mount (H) from body (E), via 3 x M6 screws (F).
- o Attach provided nut and bolt (I) to root mount (H). (Stored inside body (E))
- o Feed armoured cable (K) through cut out in root mount (H). Ensure there is enough cable for wiring to the bollard. (Approx. 100mm above ground level.)
- o Support the root mount so a 5mm gap can be achieved from ground level as shown. This will ensure the bollard will connect properly when the concrete has set.
- o Fill the hole with concrete. DO NOT USE QUICK SETTING CONCRETE. Make sure the root mount (H) tube fills with concrete.
- o Check the bollard can be attached to the root mount, before allowing the concrete to set.

FLANGE MOUNT INSTALLATION.

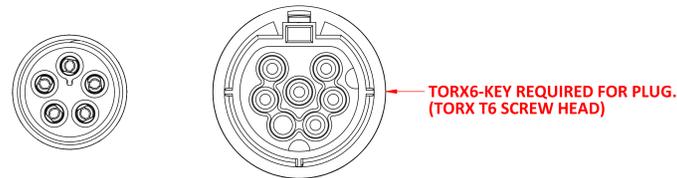


- o Dig a hole so that the bollard is adequately supported. (Suggested 300 X 300 X 400mm minimum.)
- o Ensure there is enough armoured cable (K) for wiring to the bollard. (Approx. 100mm above ground level.)
- o Fill the hole with concrete. DO NOT USE QUICK SETTING CONCRETE.
- o Fit J-bolts into concrete, use flange mount plate (G) as a guide. (Recommended size M12 x 150mm)
- o Remove flange mount plate (G) from the body (E), via 3 x M6 screws (D)
- o Feed armoured cable through central hole on flange mount plate (G).
- o Flange mount plate (G) should be attached using 'J-bolts' (L), Rawl bolts can also be used. Recommended size is M12 x 150mm. (Not Supplied)

WIRING INFORMATION.

o Bollard supplied with male and female IP plug. Male end is wired to the product. Female end is to be wired to the armoured cable.

Connection (5 core plug)	Cable section: 5 core-0.5mm ² to 1.5mm ² (6mm strip length)
Terminals (5 core plug)	1,2 (DALI) 3 (LIVE) 4 (EARTH) 5 (NEUTRAL)
Connection (6 core plug)	Cable section: 6 core-0.2mm ² to 2.5mm ² (8mm strip length)
Terminals (6 core plug)	1,2 (DALI) L (LIVE) N (NEUTRAL) Ls (SWITCHED LIVE)



KOLO BOLLARD

High Voltage LED's



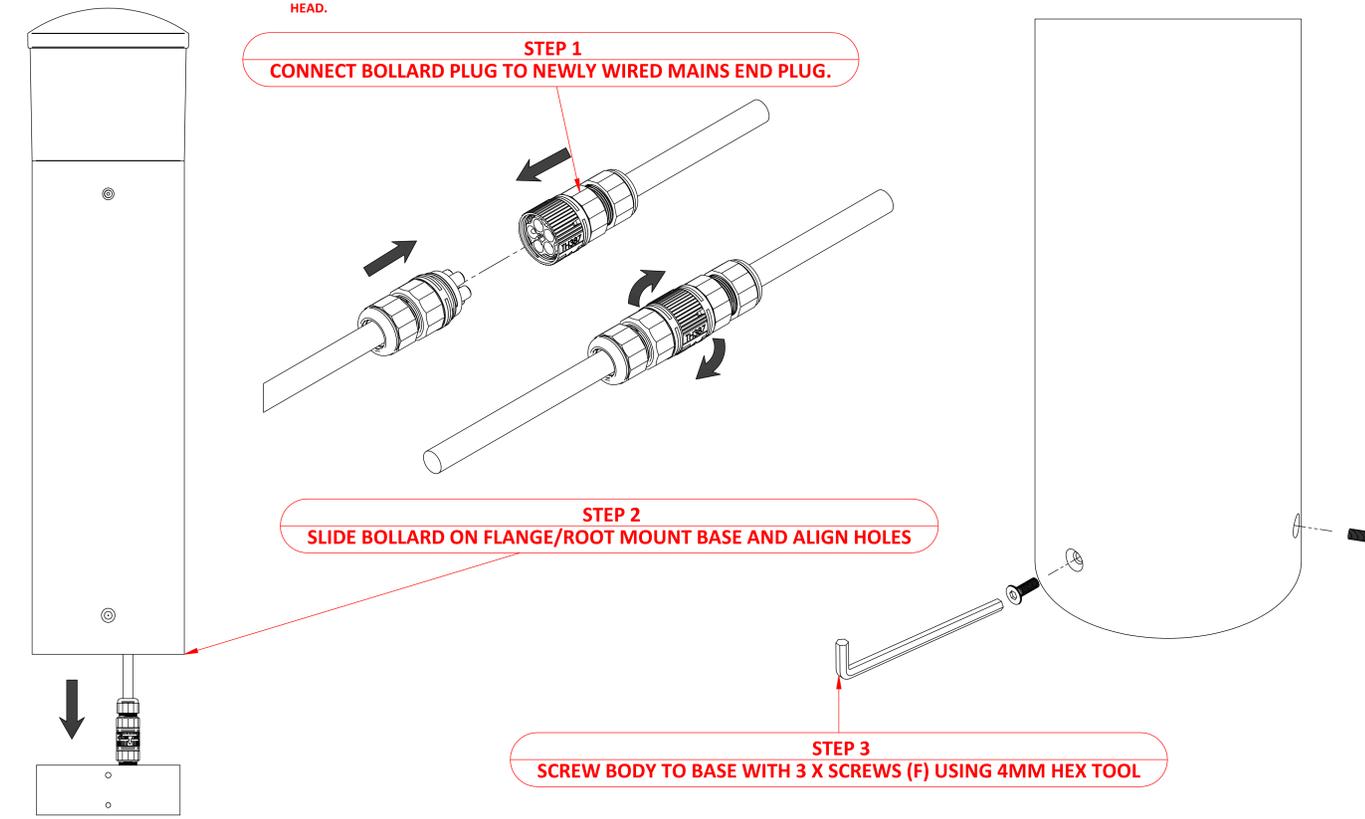
Electrostatic Sensitive Device



Whitecroft Lighting Limited

BOLLARD ASSEMBLY.

DO NOT APPLY EXCESSIVE TWISTING FORCE TO BOLLARD HEAD.



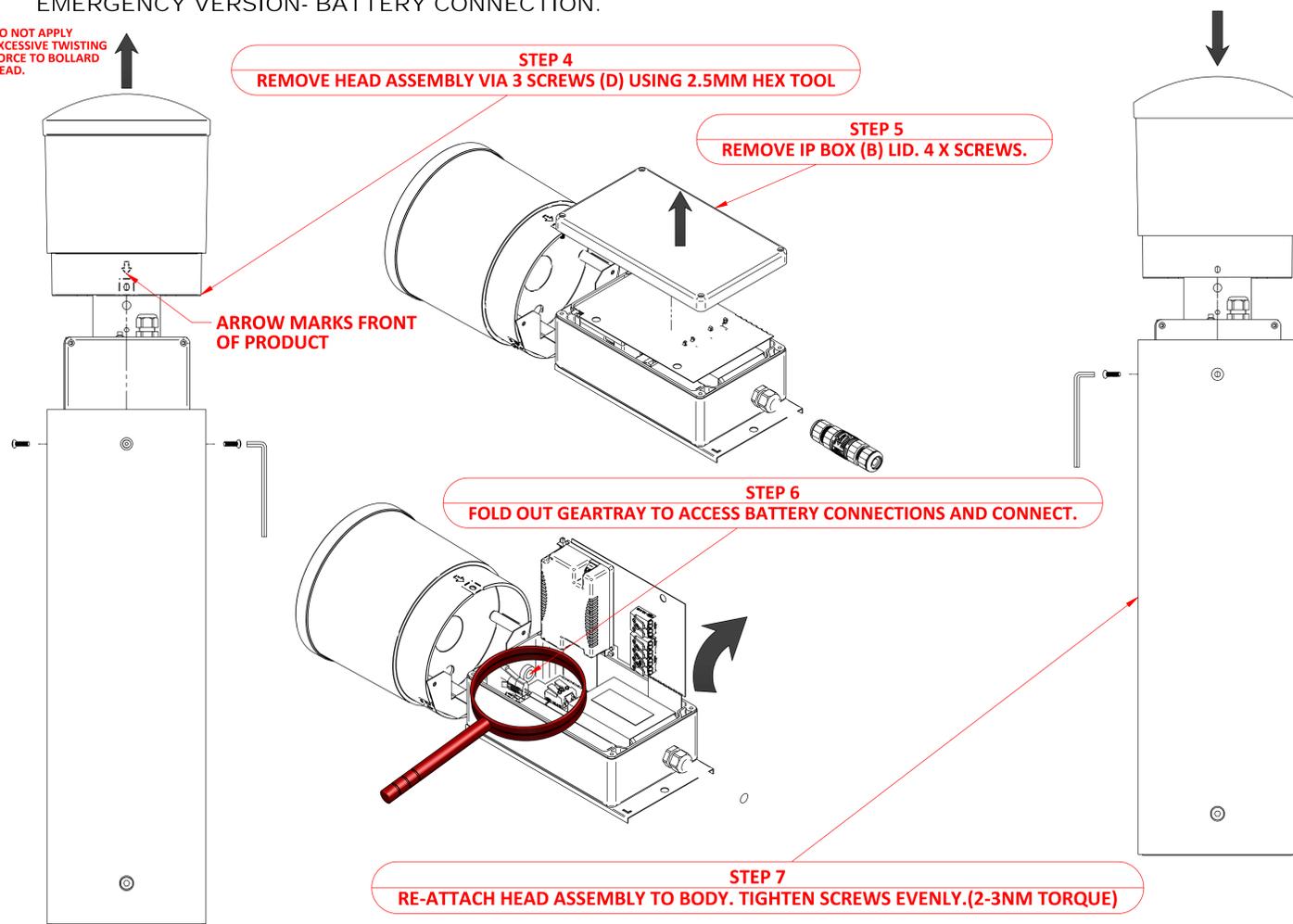
STEP 1
CONNECT BOLLARD PLUG TO NEWLY WIRED MAINS END PLUG.

STEP 2
SLIDE BOLLARD ON FLANGE/ROOT MOUNT BASE AND ALIGN HOLES

STEP 3
SCREW BODY TO BASE WITH 3 X SCREWS (F) USING 4MM HEX TOOL

EMERGENCY VERSION- BATTERY CONNECTION.

DO NOT APPLY EXCESSIVE TWISTING FORCE TO BOLLARD HEAD.



STEP 4
REMOVE HEAD ASSEMBLY VIA 3 SCREWS (D) USING 2.5MM HEX TOOL

STEP 5
REMOVE IP BOX (B) LID. 4 X SCREWS.

STEP 6
FOLD OUT GEARTRAY TO ACCESS BATTERY CONNECTIONS AND CONNECT.

STEP 7
RE-ATTACH HEAD ASSEMBLY TO BODY. TIGHTEN SCREWS EVENLY. (2-3NM TORQUE)

Kolo Bollard- Product Information

High Voltage
LED's



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Whitecroft Lighting Limited- REV 5 08/07/21

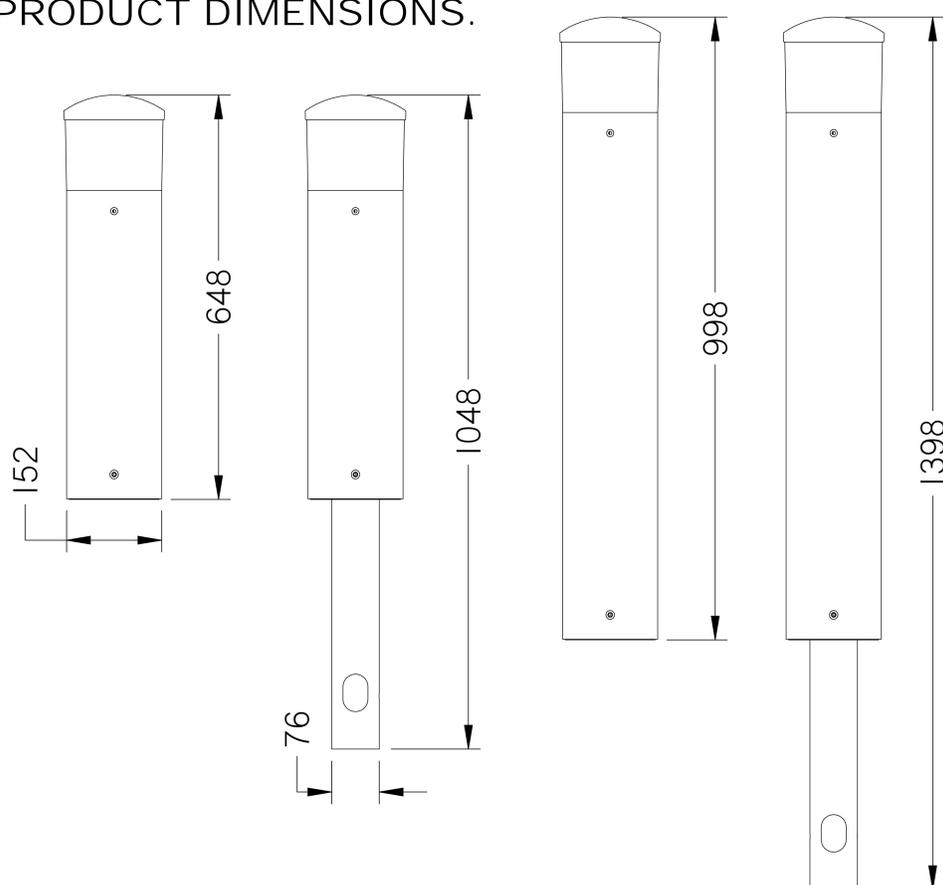
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PRODUCT DIMENSIONS.



SCAN BELOW FOR FULL PRODUCT
INSTALLATION INSTRUCTIONS.



SCROLL DOWN TO PRODUCT
DOWNLOADS FOR FULL INSTALLATION
INSTRUCTIONS.

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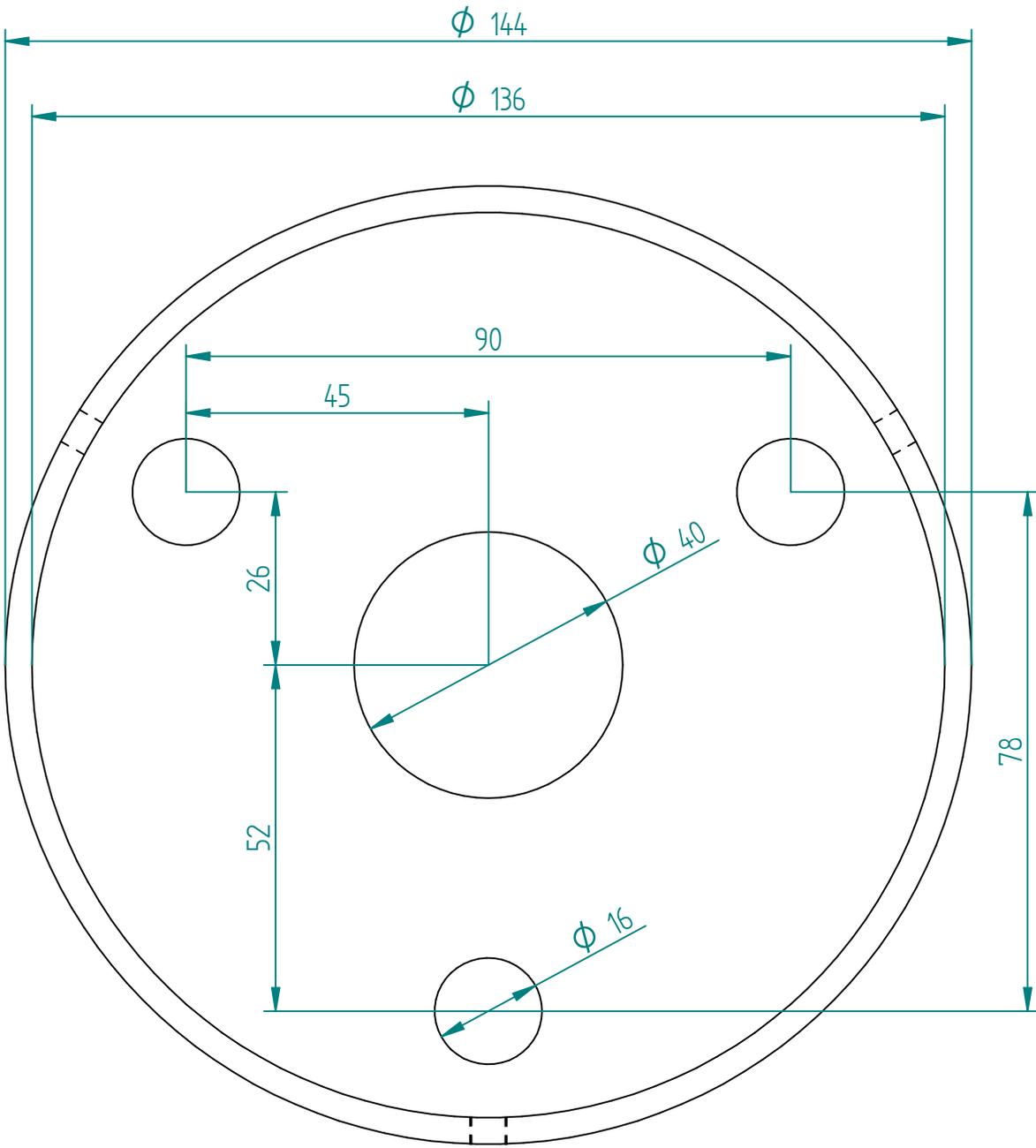
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BASE PLATE DIMS & 1:1 TEMPLATE



FRONT OF PRODUCT