



Our *passion* is enclosures.

Project 2011.

An entirely new concept.

ROLEC aluDISC. The round enclosure.
Roundly complete.





There are industries in which everything is round. Tanks. Pipes. Lamps. Displays. Instruments.

Only the enclosures are square. Because round ones did not exist. Until now!

Now there's aluDISC from **ROLEC**
Round! Roundly complete!

With aluDISC ROLEC is once again setting entirely new benchmarks. Until now leak proof enclosures made from metal that were round and suitable for harsh environmental conditions did not come "off the shelf". Anyone who required round enclosures had to have these developed and manufactured specially.

The ROLEC idea: Standardised enclosures to meet this demand. Not so simple: Space for fixing channels and lid fixing screws is provided even though totally round bodies have not flat surfaces upon which to mount cable glands and connectors.

The watch as an example

The experienced ROLEC designers found the solution. There were many ideas, which went on to become proto-types before being once again rejected. ROLEC has known for a long time: Concepts follow on from rejects. Only thus can one really get round the matter.

Perspectives of the n



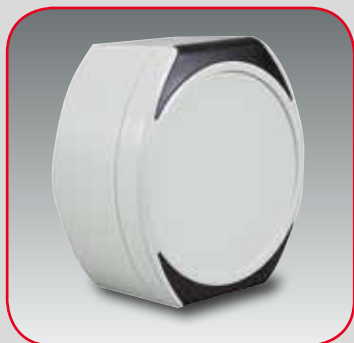
Our *passion* is enclosures.

ROLEC project 2011. Your opinion on aluDISC.

ROLEC does not build enclosures for itself. ROLEC builds them for you, the user. And ROLEC builds them with you, the user. You have the practical experience, you know the requirements and conditions. We want to know what you have to say about aluDISC.

So that the suggestions become more than just theory, ROLEC has fully manufactured one size of enclosure: AR 120. It is available immediately. The production of all tools is planned by the end of 2011.

new enclosure creation



The brilliant ROLEC principle as with aluCAGE: Enclosure attachment with closed lids and design covers.

The perfect symbiosis of form and function.

ROLEC aluDISC. Perfect design.
Perfect technology. Round.

Advantages at a glance



Integrated recesses for membrane keypads.



Enclosure attachment with closed lids.



Design covers for the perfect look.



Economical lid support.



Attachment domes in the enclosures and lids for components.



Covers from transparent polycarbonate as protection for membrane keypads and against manipulation.

The design

The unusual shape of the new enclosure opened up new possibilities with respect to the design. So that a product came into being with an attractive design.

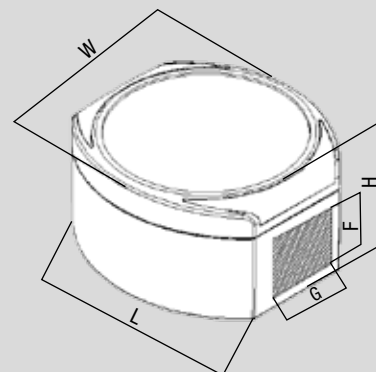
Likewise "round" the technology. With aluDISC all of the technical achievements of the aluCAGE range, introduced a few years previously, came into effect.

Cover for frontal installations

Users often wish to protect the integrated membrane keypad against unauthorised access. Another requirement is the protection of integrated actuation elements against environmental influences. ROLEC developed a cover from transparent polycarbonate.



aluDISC



Installation
dimensions

The delivery program



AR 080



AR 100



AR 120



AR 160

aluDISC range overview

Type	Mat. No	L	W	H	D	E	F	G	g	M	D	EMV	L	SH	DH	Plus
AR 080	280.080.000	110	97	55	89,8	45,2	27,5	12,5	410	●	□	●	●	○	○	●
AR 100	280.100.000	130	119	65	99,4	68,4	40,5	27,5	590	●	□	●	●	○	●	●
AR 120	280.120.000	150	139	80	116,5	80	55,5	40	820	●	□	●	●	●	●	●
AR 160	280.160.000	190	179	90	155,5	99	65,5	57,5	1190	●	□	●	●	○	●	●

AR 120 available immediately; AR 080, AR 100 and AR 160 available 2012.

□ Standard ● Available ○ Not available

Technical information

Enclosure

Die-cast aluminium
EN AN-44300 DIN EN 1706
(GD AL SI 12 / DIN 1725)
1° mould slope for casting
ejection, internal measures
diminishing circulatory towards
enclosure bottom by 1°.

Lid screws

Stainless steel 1.4567, captive.

Integrated recess

1.7 mm recess in the lid for
membrane keypad or front
plates, membrane dimension-
al data for standard powder
coating.

Optional cover

Cover with hinge mechanism
from transparent polycarbonate
(PC) UV-stabilised, sealable.
UL 94 V-2 – 0.36 ~ 1.9 mm,
HB > 1.9 mm.

Optional lid support

Screw hinge, lid screw with
plastic element from stainless
steel 1.4567 and polyamide
(PA6).

Clip-on design cover

Plastic polyoxymethylene
(POM) in RAL 7016,
anthracite grey.

Fixtures

Attachment domes in the top
and bottom section ensure
secure fastening of installed
components.

Ingress protection

IP 66 / EN 60529
IP 67 / EN 60529
IP 69K DIN 40050 (optional)

Gasket

Silicone gasket
(-50°C bis +140°C)
Optional: Chloroprene gasket
(-30°C bis +90°C)

Surface

Powder coated in RAL 7035,
light grey,
optional: Special colours



M

Mounting plates



D

Silicone gasket



EMV

Shielding



L

Corrosion
proof coating



SH

Cover



DH

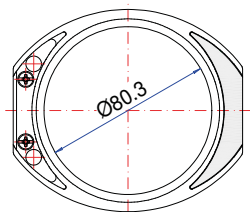
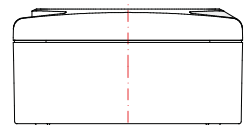
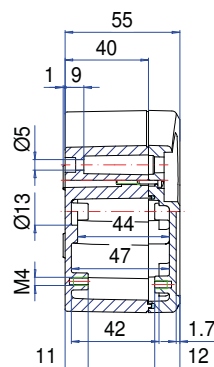
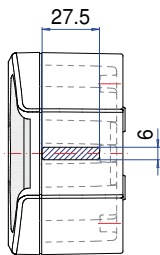
Lid support



PLUS

Protection class
IP 69K

aluDISC



Folie/ Keypad
Ø79.7 $^{+0}_{-0.2}$

* Bitte beachten: Gehäusewand mit Entformungsschräge, Maßangaben in Höhe des Gehäusebodens!

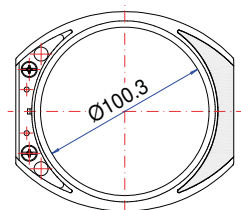
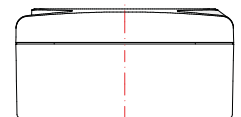
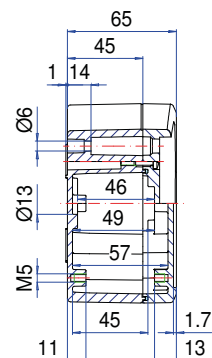
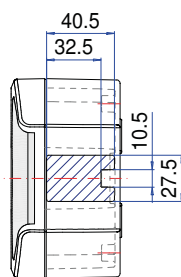
The image displays two technical drawings of a circular mechanical component, likely a flange or mounting plate, showing two different variants. Both variants feature a central hole and eight mounting holes arranged in a circular pattern.

Top Variant (Left):

- Overall diameter: 130
- Inner diameter (mounting holes): 118.5
- Outer diameter (flange): 105.5
- Mounting hole diameter: 10
- Central hole diameter: 10
- Mounting hole pitch circle diameter: 76.5
- Flange thickness: 20
- Overall height: 89
- Inner radius: 32.5
- Outer radius: 107
- Inner angle: 119
- Outer angle: 108

Bottom Variant (Right):

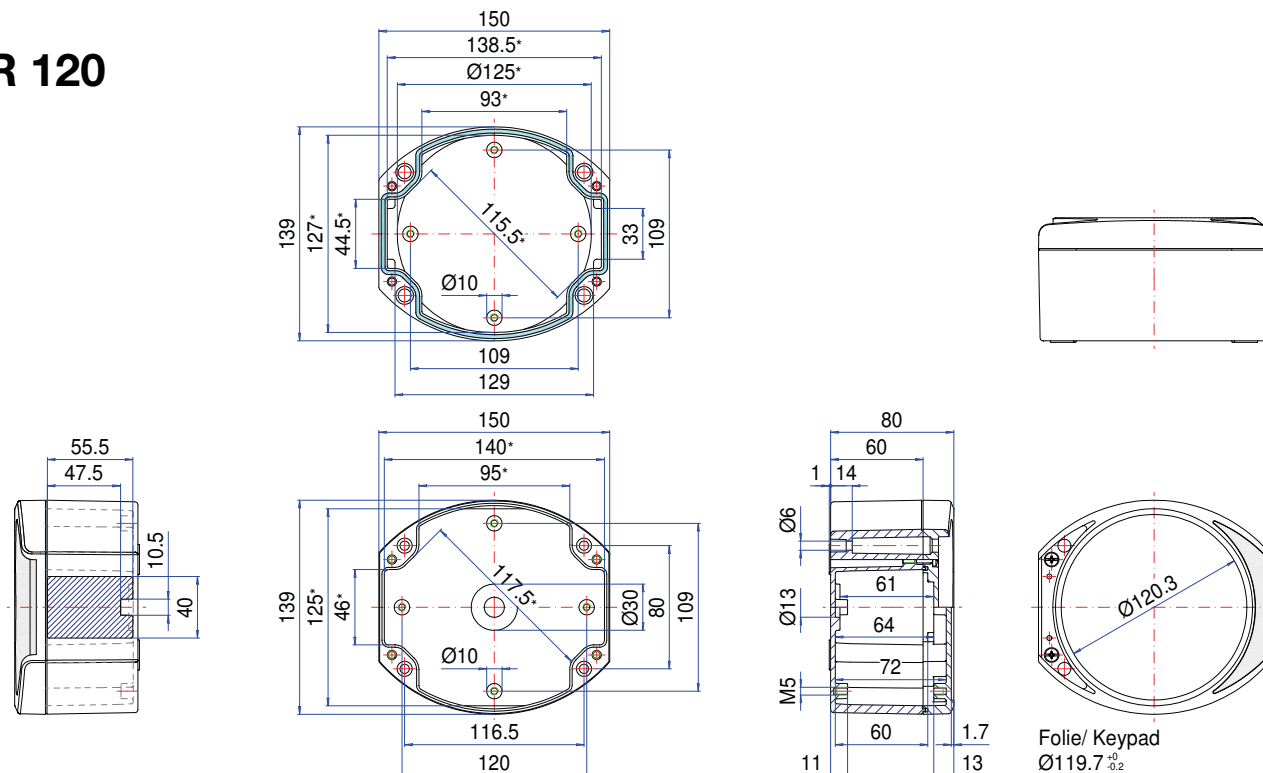
- Overall diameter: 130
- Inner diameter (mounting holes): 120.5
- Outer diameter (flange): 105.5
- Mounting hole diameter: 10
- Central hole diameter: 10
- Mounting hole pitch circle diameter: 79
- Flange thickness: 30
- Overall height: 89
- Inner radius: 34.5
- Outer radius: 105.5
- Inner angle: 119
- Outer angle: 100



Folie/ Keypad
Ø99.7 $^{+0}_{-0.2}$

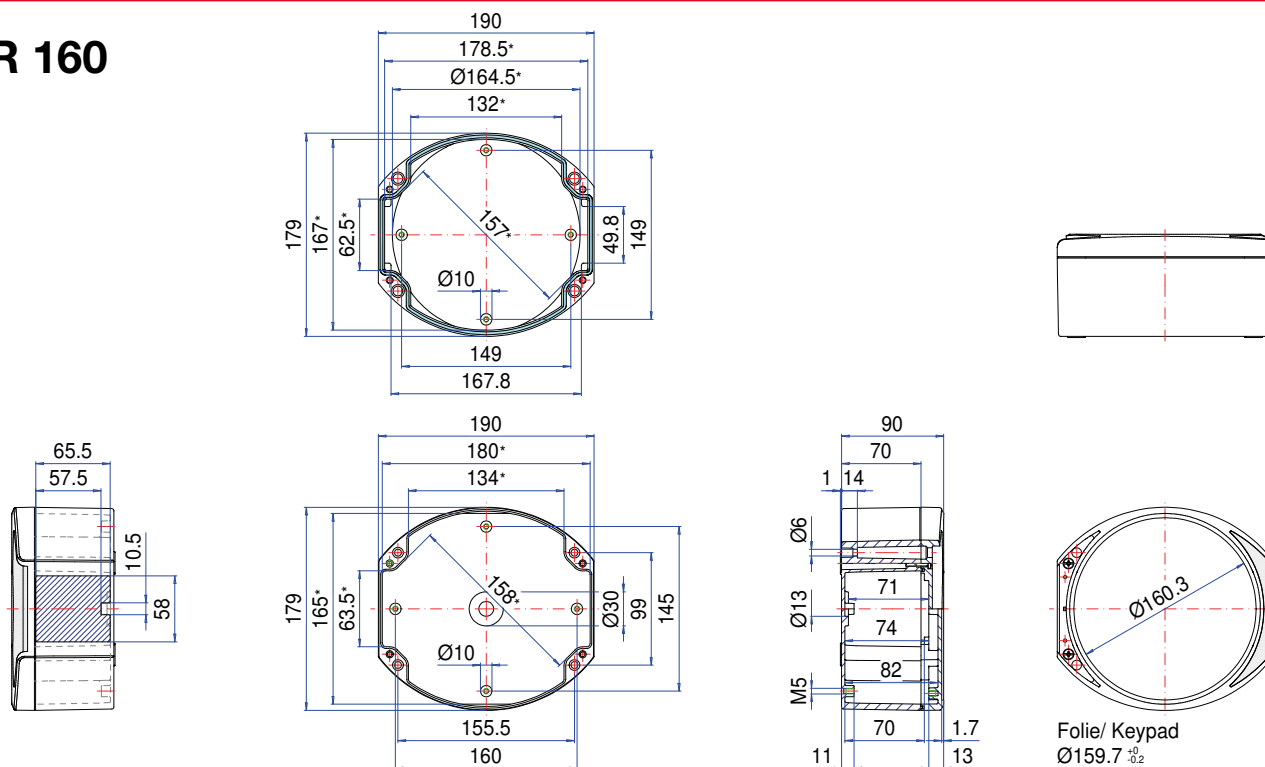
* Bitte beachten: Gehäusewand mit Entformungsschräge, Maßangaben in Höhe des Gehäusebodens!

AR 120



* Bitte beachten: Gehäusewand mit Entformungsschräge, Maßangaben in Höhe des Gehäusebodens!

AR 160



* Bitte beachten: Gehäusewand mit Entformungsschräge, Maßangaben in Höhe des Gehäusebodens!



Our *passion* is enclosures.

Just-in-time. Ready for installation.

- Drilled.
- Milled.
- Engraved.
- Printed.
- Powder coated.
- Wet painted.
- Equipped.
- Assembled.
- Delivered.

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