InterMeZo Housing

√ Design front
√ Functional front
√ Variable in three dimensions
√ Can be RFI-shielded
√ Mechanical protection up to IP 54
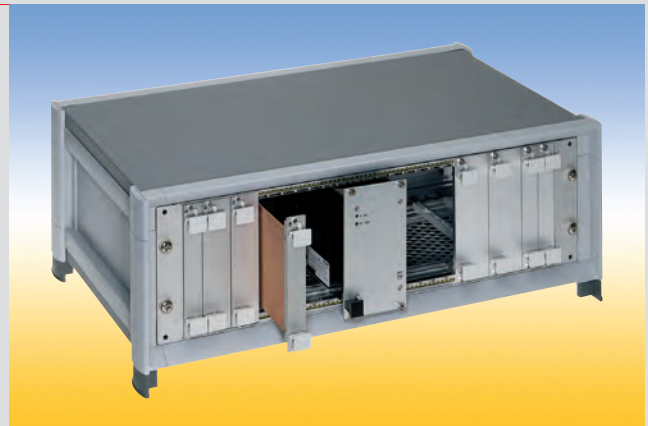
InterCase Desktop Housing

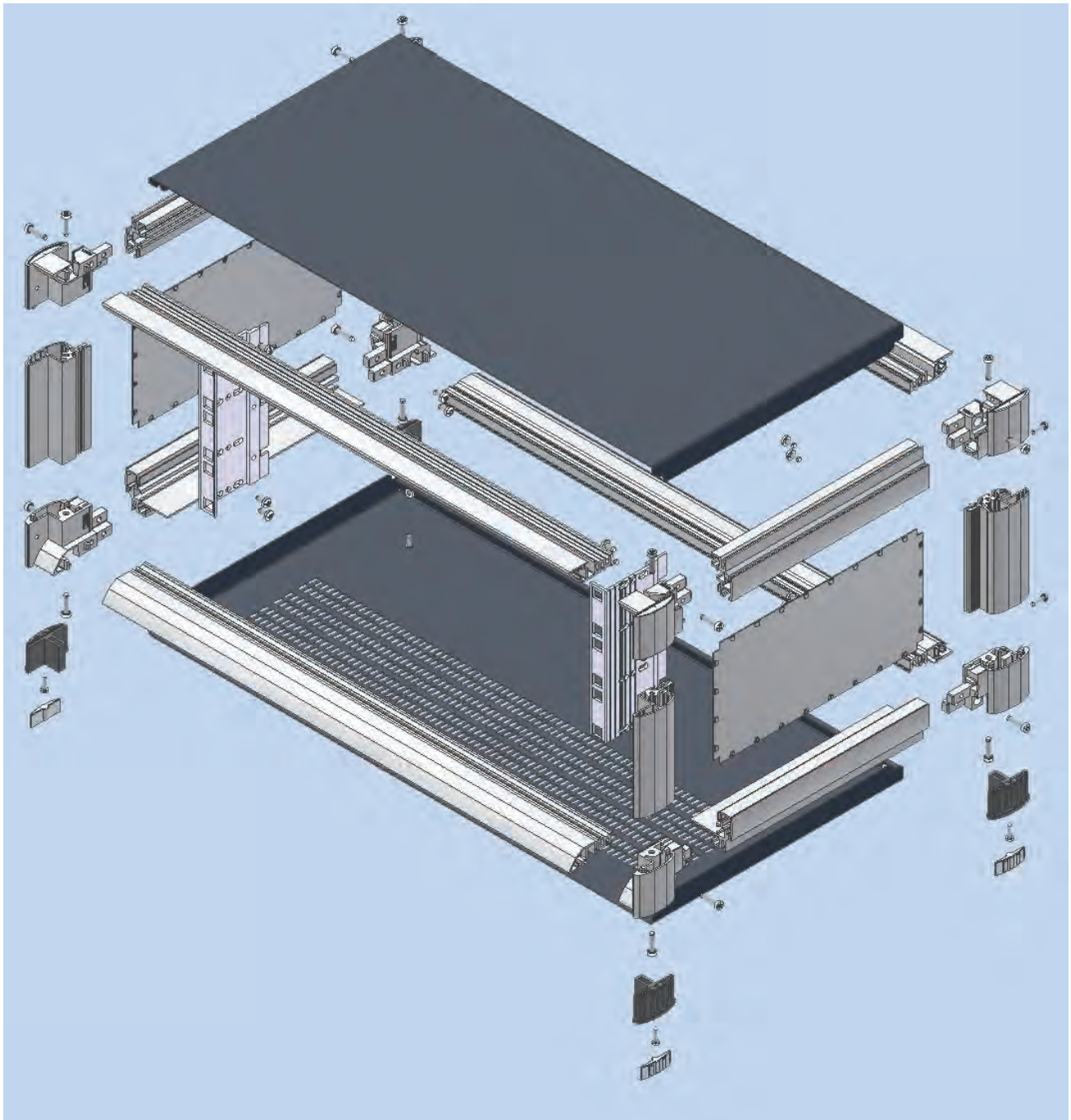√ Easy construction
√ Service friendly
√ Variable dimensions
√ Can be RFI-shielded

InterLock Housing

√ Covering of subracks
√ Easy mounting without screws

InterMeZo Housing

Requirements

A modern housing exible in its applications, with a modular design, can be RFI-shielded and ventilated, in an attractive design and at a reasonable price: InterMeZo

Construction

1. Housing frame

The InterMeZo housing is based on a framework construction consisting of profiles and corner connectors. This flexible design also enables fast and cost-effective assembly of individual housing sizes.

2. Easy to access

For quick access to the installed electronics the cover plates are pressed into profiled grooves and secured with two screws.

3. RFI shielding

The side walls are pressed into profile grooves; contact elements ensure RFI-shielded bonding.
To achieve effective protection of the housing against dust and water the cover panels, the rear wall and the door can all be fitted with seals.

This catalog contains stock and standard parts. Other products and sizes on request.

4. Mechanical sealing
To achieve effective protection of the housing against dust and water the cover panels, the rear wall and the door can all be fitted with seals.

5. Recessed grips
Grips for easy transportation are formed by the recessed mounting of the side walls.

6. Equipment supports
Subracks can be installed variably as the housing depth permits.

7. Chassis panels
The depth profiles are provided with grooves in which chassis panels or similar can be fitted at any depth with the aid of spring nuts.

Summary
The InterMeZo housing from Intermas is a modular and cost-effective housing solution for high-quality industrial electronics in a visually attractive design, developed for the highest possible flexibilty and simplest possible assembly, with expansion capabilities for more demanding needs, compliant with stringent EMI/ESD protection specifications, and with extensice configuration options to fulfil application-specific requirements.

Technical data

| Materials	casing: aluminum profiles corner connectors: die-cast zinc feet: ABS other parts: 0.8 mm galvanized sheet steel

Finish	standard for rear wall and cover panels:
	  painted dark gray (RAL DS 5500)
	standard for casing and side walls:
	  painted light gray (RAL DS 7000)
	feet: dark gray

Versions
The _InterMeZo housings_ are available to assembly 19"- or metric subracks. Alternatively, any dimensions for variable applications are possible.
For all versions the possibility exists to choose between the following types.
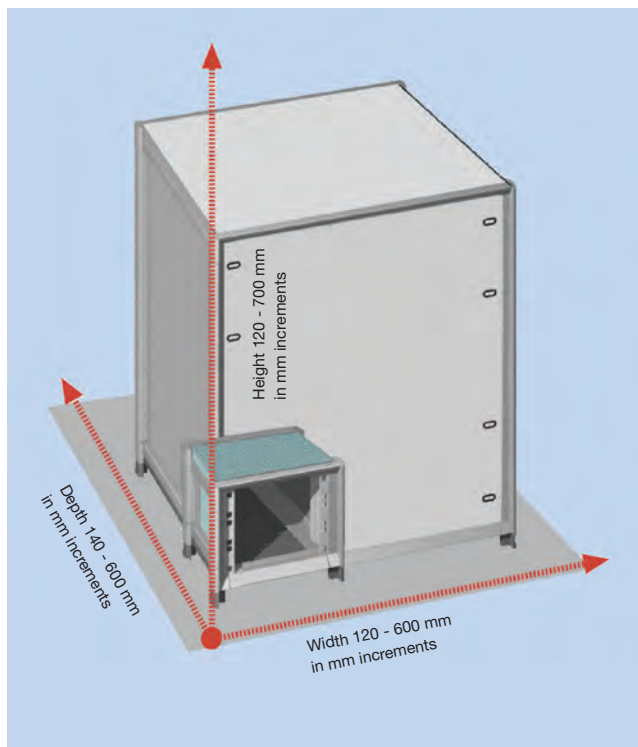

1.   Design front
This version has been constructed in terms of a harmonic front design for use with a wide range of applications.
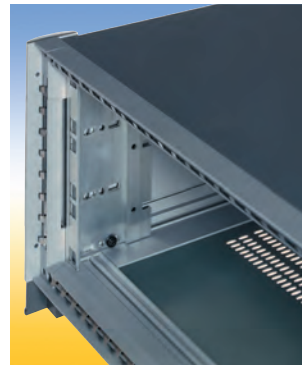
2.   Functional front
For higher protection against dust and water as well as EMC shielding.

InterMeZo Housing

Height 120 - 700 mm in mm increments

Depth 140 - 600 mm in mm increments

Width 120 - 600 mm in mm increments

InterMeZo Housing

Housing	pieces _____

Dimension	height: ❑ 3 U ❑ 6 U width: ❑ 84 HP ❑ 42 HP depth: ❑ 300 mm ❑ 400 mm ❑ 500 mm ❑ other: height: ____ U or _____ mm width: ____ HP or _____ mm depth: _____ mm
Design	❑ design front ❑ front ❑ rear ❑ functional front ❑ front ❑ rear
Color casing, side wall	❑ RAL DS 7000 ❑ RAL_____
Color rear wall, panels	❑ RAL DS 5500 ❑ RAL_____
Louvers in	❑ bottom panel ❑ top panel ❑ rear panel

Front	❑ **Casing door** ❑ **Plexiglass door** ❑ **Front panel**	 ❑ anodized ❑ RAL _____
19" unit support	❑ front ❑ rear	
Protection class	❑ IP _____	
RFI-shielding	❑	
Accessories	❑ **Rear panel** ❑ **Wheels** ❑ **Carry handles** ❑ **Side bars** ❑ **Subplate** ❑ **Mounting material for subrack and front panels** kit_____ pieces	
Notes	_____ _____ _____ _____ _____	

Please ask your local representative for your
individual system configuration
You find your contact person on our homepage:
www.intermas-el.com

This catalog contains stock and standard parts. Other products and sizes on request.
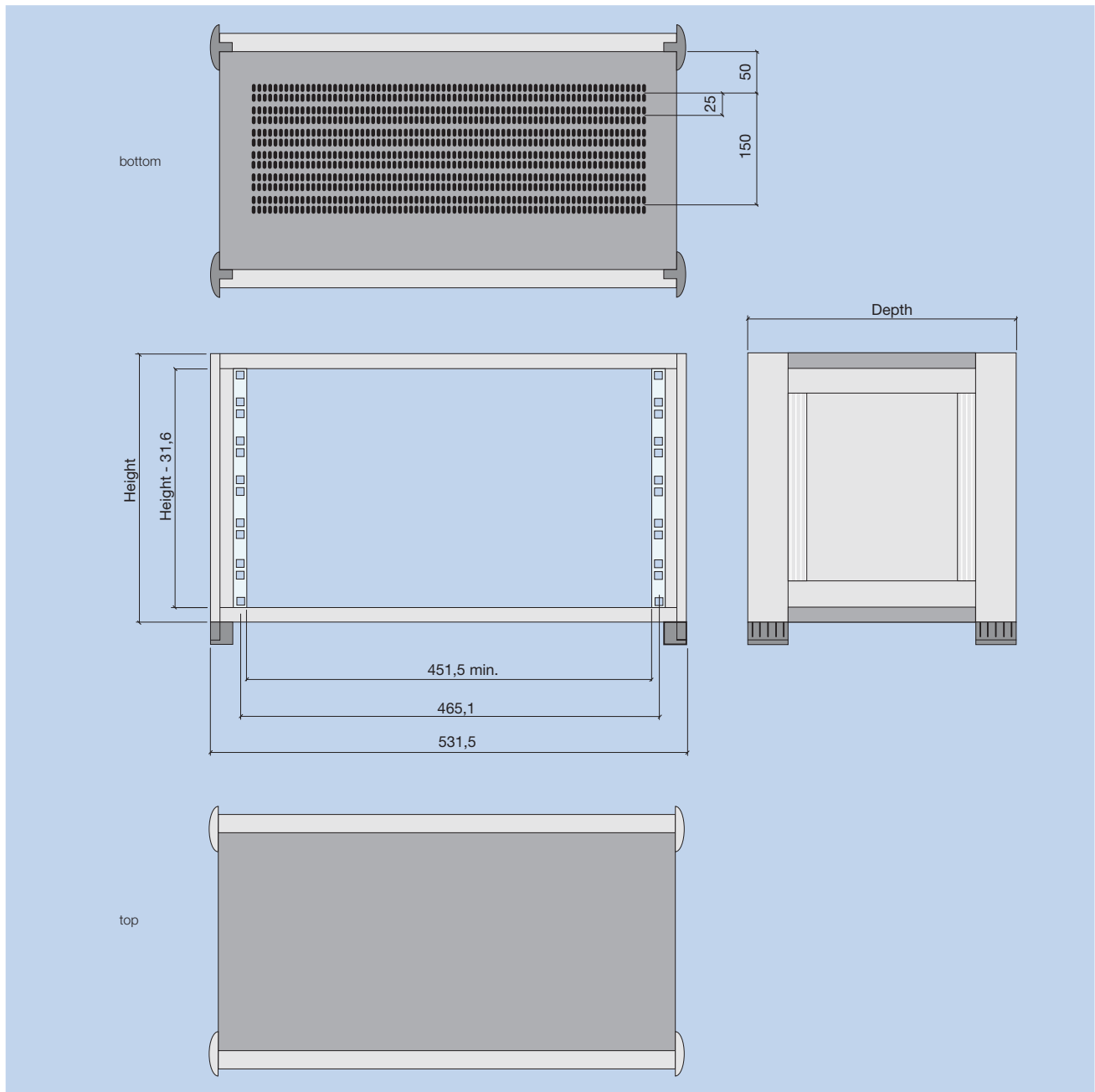
Ordering details for assembled *InterMeZo* housings

| nom. height [U]	height [mm]	width [mm]	depth [mm]	*design-front* order no. **409.**	*functional-front* order no. **409.**
3	165.60	531.50	300	**166 208**	-
3	165.60	531.50	400	**166 209**	**166 217**
4	210.05	531.50	400	**166 210**	-
6	298.95	531.50	400	**166 211**	**166 218**
6	298.95	531.50	500	**166 212**	-
7	343.40	531.50	400	**166 213**	-
9	432.30	531.50	400	**166 214**	**166 219**
9	432.30	531.50	500	**166 215**	-
12	565.65	531.50	500	**166 216**	**166 220**

Delivery:
Housing frame with side panels,
top closed,
bottom panel with louvers
4 feet,
2 unit supports

Delivery:
The housing is delivered assembled and painted.
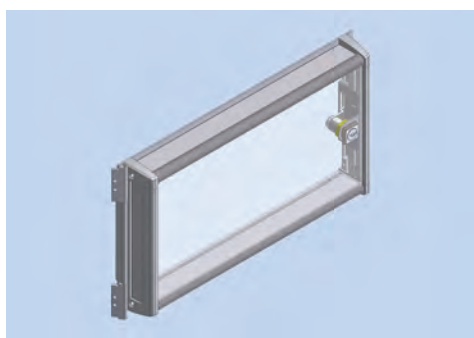
InterMeZo Housing Accessories
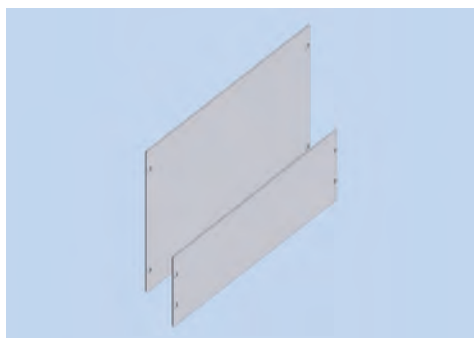
19" Front Panels

Material: aluminum 3 mm thick
Finish: anodized

Ordering details for 19" front panels

nom. height [U]	order no. 409.
3	086 513
4	086 514
6	086 516
7	086 517
9	086 519
12	086 522

19" Casing Door
Kit consists of:
1 casing door with plexiglass pane
1 lock
2 hinges
Installation hardware

Delivery:
As complete assembled casing door.

Ordering details for 19" casing door

nom. height [U]	order no. 409.
3	110 452
4	110 453
6	110 454
7	110 455
9	110 456
12	110 457
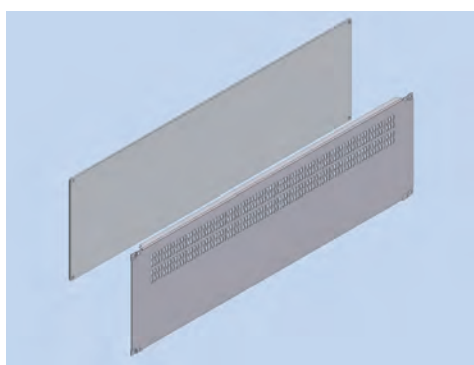
Rear Panel, closed

Material:
aluminum 2.5 mm thick

Finish:
front side anodized,
rear side conductive

Rear Panel with Louvers

Material:
steel 0.8 mm thick
Finish:
front side RAL DS 5500,
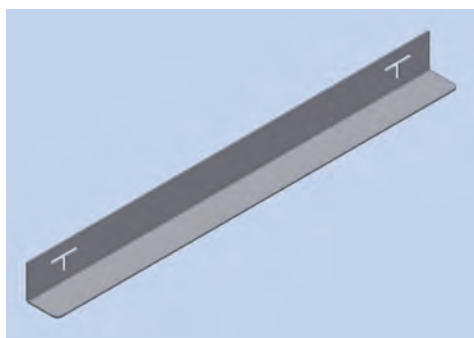rear side conductive

Ordering details rear panel

nom. height [U]	closed order no. 409.	with louvers order no. 409.
3	109 984	111 556
4	109 985	111 557
6	109 986	111 559
7	109 987	111 560
9	109 988	111 561
12	110 392	111 562

Accessories

Taptite screw M4x10

Minimum order quantity 100 pieces

order-no.: **409. 110 395**

Slide Bars
Kit consists of:
2 slide bars
Installation hardware

Material:
1.5 mm galvanized
sheet steel

Finish:
passivated

Ordering details kit

	for housing-depth [mm]	order no. 409.
slide bar	300	111 285
slide bar	400	111 286
slide bar	500	111 287

This catalog contains stock and standard parts. Other products and sizes on request.

RFI-Shielding

Material: stainless steel

Ordering details
RFI-shielding-kit
for rear/front panel

nom. height [U]	order no. 409.
3	110 360
6	110 361
9	110 366
12	110 367

Ordering details
RFI-shielding-kit
for cover plates

depth [mm]	order no. 409.
300	110 368
400	110 370
500	110 372

Unit Support
Kit consists of:
2 unit supports and
Installation hardware

Ordering details for
unit support kit

nom. height [U]	order no. 409.
3	110 375
4	110 376
6	110 378
7	110 379
9	110 381
12	110 382

Mounting material for subracks and front panels in housing

Screw Locking M6
Color: black
Material: POM
Minimum order quantity 10 pieces
order no.: **409. 074 387**

Oval Head Screw
M6 x 16 DIN 7985
steel, nickel plated
Minimum order quantity 10 pieces
order no.: **409. 013 919**

Cage Nut

steel, galvanized
Minimum order quantity 10 pieces
order no.: **409. 131 652**

Castors
Kit consists of:
2 mounting angles
4 castors
Installation hardware

Ordering details for castor kit

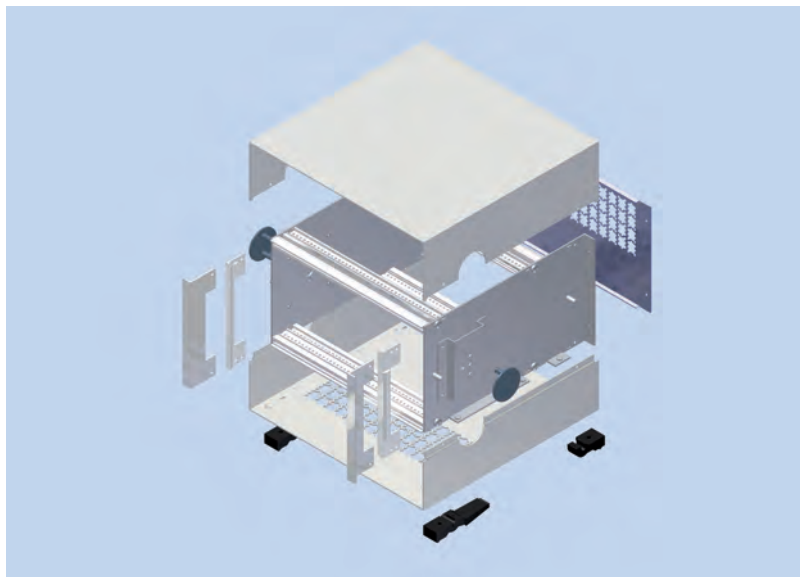|	housing-depth [mm]	order no. 409.
castors 300	300	112 092
castors 400	400	112 093
castors 500	500	112 094

Castors are not retrofit
Please order with housing.

Carry Handles
Kit consists of:
2 handles
Installation hardware

Color: RAL DS 7000

order no.: **409. 112 507**

This catalog contains stock and standard parts. Other products and sizes on request.

InterCase Desktop Housing

Description

The special design features of the *Inter-Case* desktop housing:

√ A desktop housing with a simple design for standardized plug-in units and individual assemblies.

√ The easy to access design allows all covering parts to be removed at any time.

√ The bottom cover and the rear panel are provided with louvers.

√ The side plates include perforations for attaching profile rails at different board depths.

√ The comprehensive range of Intermas subrack accessories allows individual

√ Can be RFI-shielded.

Technical Data

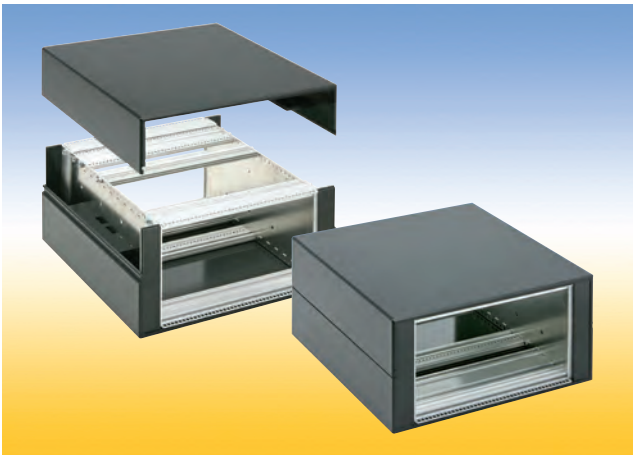| Material	Aluminum feet: plastic
Finish	side plates: blank side panels and rear panel: painted feet: black

Delivery:

2 top/bottom panels
2 side plates
2 side panels
4 pr   ont/rear
1 pr   ear middle
    (only for 6 U)
1 rear panel
2 covers
2 mounting angles
4 threaded strips
    (6 for 6 U)
1 foot kit
    (1 carrying handle)
Installation hardware

Ordering details *InterCase* desktop housing

nom. height [U]	width [HP]	nom. depth [mm]	total depth [mm]	order no. **409.**	with carry-ing handle-order no. **409.**
3	42	160	260	**172 610**	**172 548**
3	42	220	320	**172 620**	**172 621**
3	84	160	260	**172 630**	**172 631**
3	84	220	320	**172 640**	**172 641**
6	84	160	260	**172 650**	**172 651**
6	84	220	320	**172 660**	**172 661**

This catalog contains stock and standard parts. Other products and sizes on request.

InterLock Desktop Housing

Material: Polystyrene 6 mm thick
Color: black

Delivery:
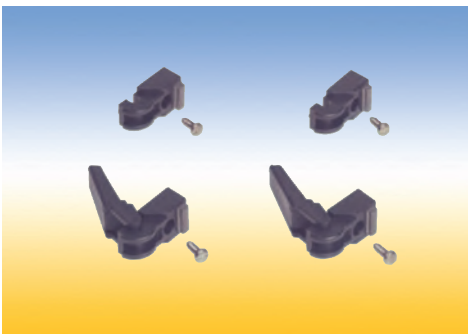The *InterLock* desktop housing is delivered in single parts.

Set consists of:
1 top-shell
1 bottom-shell

Description

The *InterLock* desktop housing has been designed to cover subracks. Also System-Module can be dressed up.

The special design features of the *InterLock* desktop housing:

√ The covering elements are formed from recyclable polystyrene plate-material warmly and the joints are welded together by means of a chlorine carbon solution coldly.

√ Material strength of 4 to 10 mm can be processed according to demand of the device.

√ Easy assembly or disassembly of the case shells. Both case shells are locked by a clamp groove without screws.

√ The case is upgradeable by feet and handles.

√ However, on account of an economic manufacturing technology special dimensions or special colors can be also already realised for small quantities at a reasonable price.

√ Extensive range of accessories is available.

Ordering details kit - *InterLock* desktop housing

nom. height [U]	width [HP]	nom. depth [mm]	order no. 409.
3	42	220	168 935
3	84	220	168 936
6	84	220	168 937

Ordering details for compatible subrack kits

	nom. height [HE]	width [HP]	PCB depth/ nom. depth [mm]	order no. 409.
Subrack *FLEXIBLE Fi-alpha* prepared for RFI	3	42	160/220	133 306
Subrack *FLEXIBLE Fi-alpha* prepared for RFI	3	84	160/220	133 307
Subrack *FLEXIBLE Fi-alpha* prepared for RFI	6	84	160/220	133 308

Accessories *InterLock*
Foot kit:
 2 feet without tip-up
 2 feet with tip-up
 4 lens head screws
 with nut

Material: Ultramid
Color: black

Foot kit

order-no.: **409. 133 305**

Accessories other housings
Foot kit:
 2 feet without tip-up
 2 feet with tip-up
 4 self-tapping screws

Material: Ultramid
Color: black

Foot kit

order-no.: **409. 059 640**

This catalog contains stock and standard parts. Other products and sizes on request.

Housings for small form factors

DiVar Housing

√ 19" rack mounted for customized housing
√ Unrestricted configuration and installation
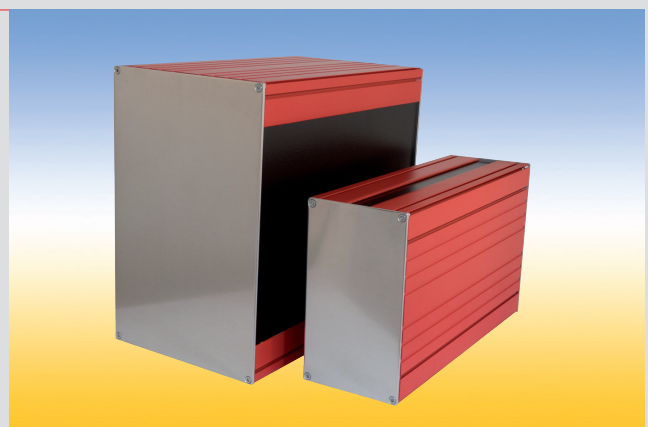√ Cover plates removable
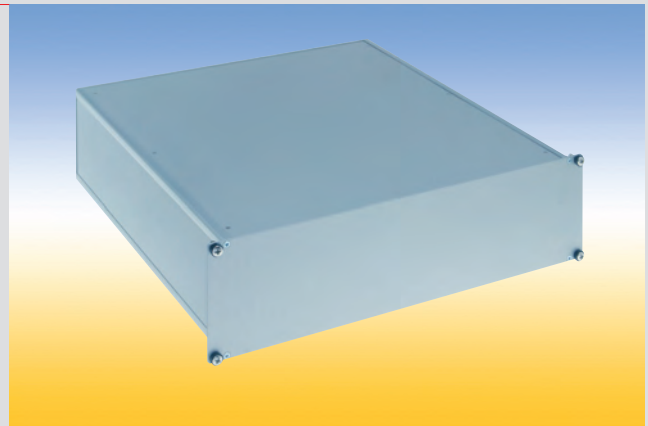
InterShell Housing

√ Customized adjustments
√ Quick and uncomplicated installation
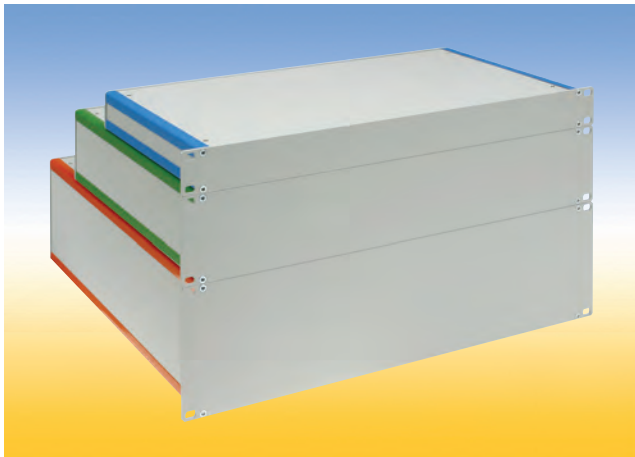√ Individual color design

InterShell IP Housing

√ Custom specific adjustments
√ Quick and uncomplicated installation
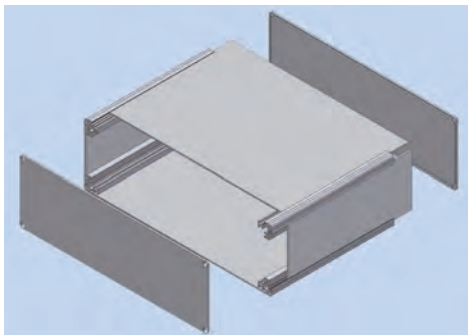√ Protection class up to IP 65

DiVar Housing

Painting examples of the DiVar housing

Technical Data

Material	aluminum
Finish	profiles: blank cover plates, front panel and side plates: front: anodized, rear: conductive

Delivery
The *DiVar* housing is delivered unassembled as individual parts or as a kit


DiVar housing as individual housing

Description
The special design features of the *DiVar* housing:

√   It consists of profiles into which aluminum, sheet steel, stainless steel or plastic panels with a thickness of 1.5 to 2.5 mm are inserted and, if desired, secured with screws. A wall panel at the rear and a panel at the front are screwed to the profiles.

√   The flexible design allows variable configuration of the housing geometry in all three axes, this allowing adaptation of the housing to customer-specific requirements.

√   Different surfaces can be selected for an individual appearance.

√   The proven RFI contact spring concept ensures optimum RFI shielding.

√   Rails with threaded holes can be pressed into the profile grooves, for example to screw in PCBs or mounting plates.

√   The extensive range of Intermas accessories allows unrestricted configuration and installation of both standardized and non-standard components.

The housing can be supplied in 4 versions:

1. Customized housing
2. 19" rack mounted
3. Desktop housing with a keyboard area
4. Desktop housing with a continuous slanting surface
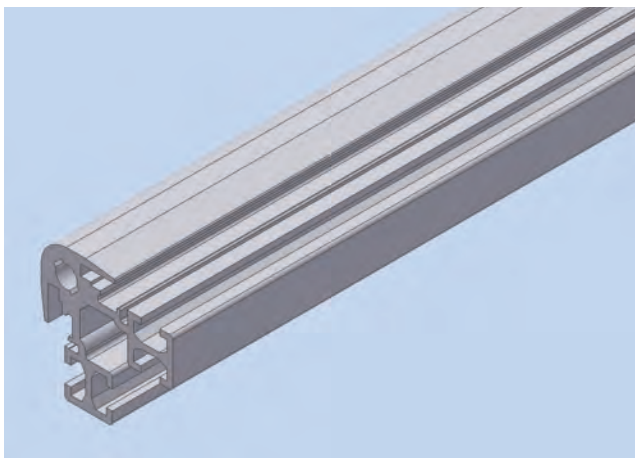
Multifunctional Profile *DiVar*
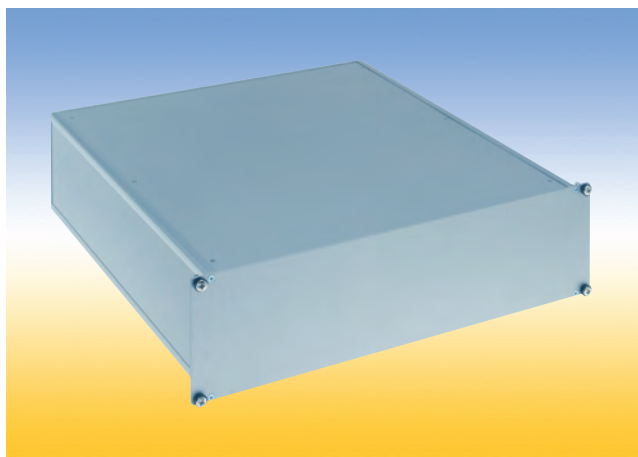
Material: aluminum
Finish: blank

Length: 1000 mm

order no.: **409. 121 808**

Accessories

RFI-spring F3
Length: 399.64 mm

order no.: **409. 111 774**

This catalog contains stock and standard parts. Other products and sizes on request.

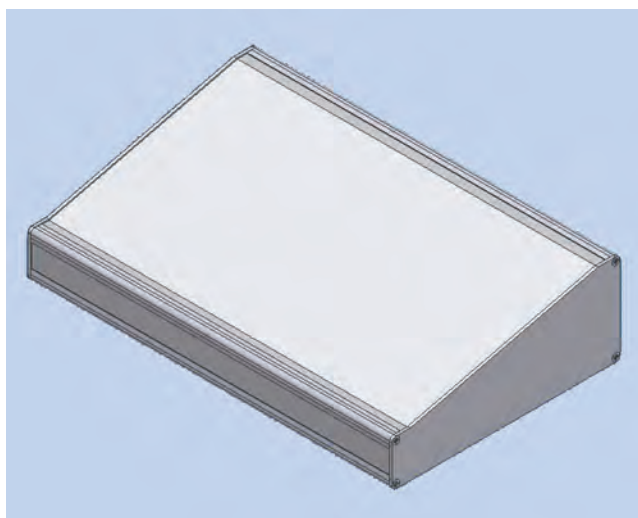## *DiVar* Housing as rack mounted version

Delivery
4 profiles
4 cover plates
1 19" front panel
1 rear panel
Assembly hardware

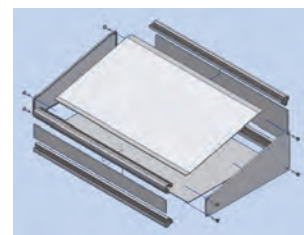**Ordering details**
DiVar housing as rack mounted version

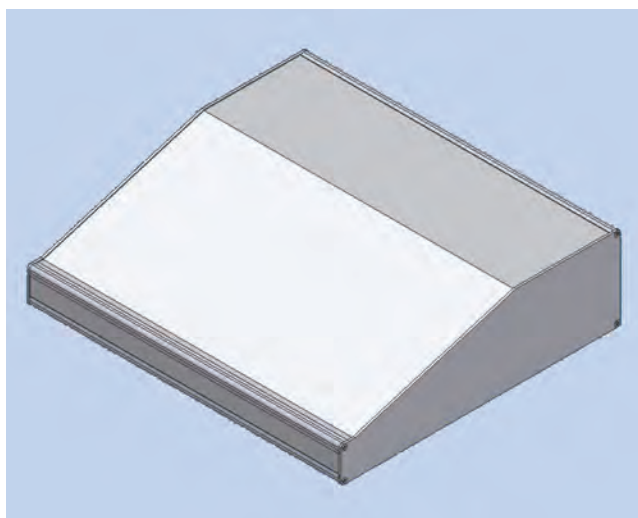| nom. height [U]	width [HP]	depth [mm]	order no. 409.
1	84	250	122 356
2	84	350	122 357
3	84	450	122 358

DiVar Desktop Housing

Delivery
4 profiles
4 cover plates
2 side plates
Assembly hardware

Ordering details
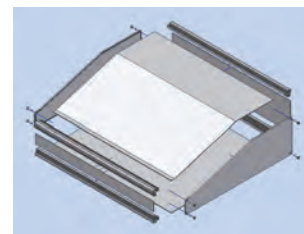**DiVar desktop housing**

height [mm]	width [mm]	depth [mm]	order no. 409.
50/100	400	250	122 359

DiVar Desktop Housing with keyboard area

Delivery
4 profiles
4 cover plates
2 side plates
Assembly hardware

Ordering details
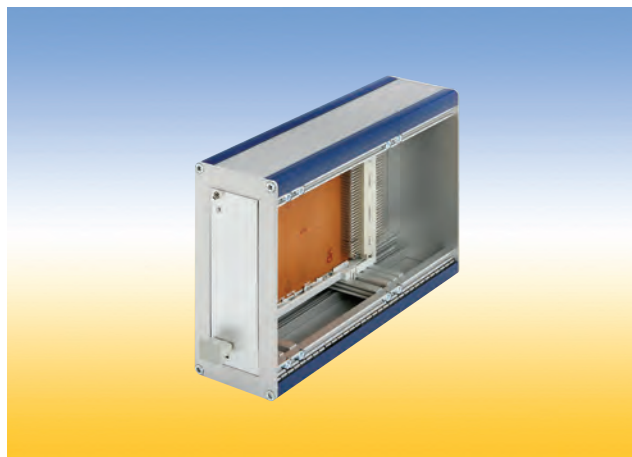**DiVar desktop housing with keyboard area**

height [mm]	width [mm]	depth [mm]	order no. 409.
50/120	450	250/150	122 360

This catalog contains stock and standard parts. Other products and sizes on request.

DiVar Housing Examples

DiVar housing as covered subrack 3 U - 84 HP - 160 mm depth

DiVar housing as covered cassette 3 U - 8 HP - 160 mm depth

DiVar housing for instrumentation

Please ask your local representative for your
individual configuration.
You find your contact person on our homepage:
www.intermas-el.com

2.12   This catalog contains stock and standard parts. Other products and sizes on request.

InterShell Housing

Painting examples of the *InterShell*

Description

The aluminium housing *InterShell* allows individual customer requirements in the context of Small Form Factors and has the following characteristics:
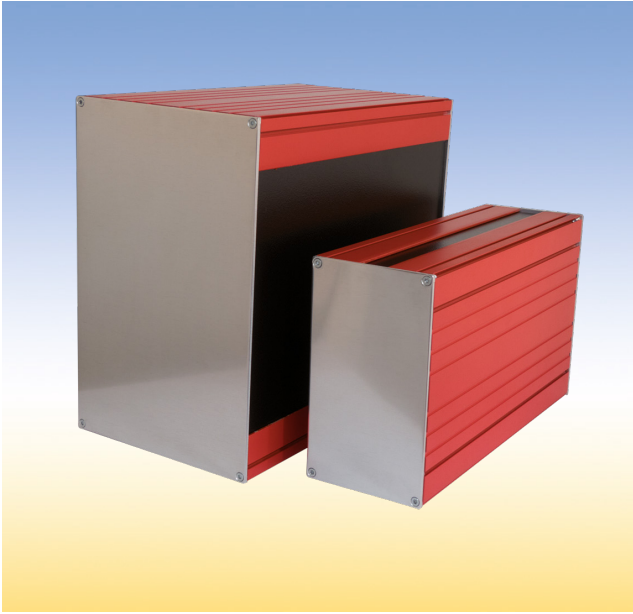
√ Flexible design in all three axes.

√ Quick and simple assembly due to its simple setting.

√ Adapted for packing small electronic units like
- euroboards in 100 x 160 (mm)
- customer-specific requirements
- mITX boards.

√ Protection classes up to IP 40.

√ EMC-compatible.

√ A wide range of surfaces allows individual colour design.

√ Additional imprints according to customers requirements are available.

√ Expandable with adhesive mounting feet.

Material: Aluminium

Surface : top-shell and bottom-shell
RAL 9006 white aluminum
front panel RAL 9005 - black

Set consists of:
1 top-shell
1 bottom-shell
2 front panels
4 countersunk screw

Delivery:
The *InterShell* housing will be delivered fully assembled and painted.

Order details *InterShell* housing

Usage	height [mm]	width [mm]	depth [mm]	order no. 409.
Euroboard 100 x 160 [mm]	40	106,6	168,2	138 020
Universal	60	150	170	138 021
mITX board, fastening points included	50	190	190	138 022

Accessories	order no. 409.
housing foot 12,7 x 12,7 x 3,1[mm] PU, black	137 981
housing foot 12,7 x 12,7 x 5,8[mm] PU, black	137 982

Housing *InterShell IP*

Painting examples of the InterShell IP

Position of the notches and sealings

Delivery :
The housings are delivered unassembled as kits. They are packed - depending on quantity - either as kits or same parts packed together.

Upon request, the housings can also be delivered completely assembled and wired according to your requirements.

Description

The *InterShell IP* - perfect heavy duty housing.
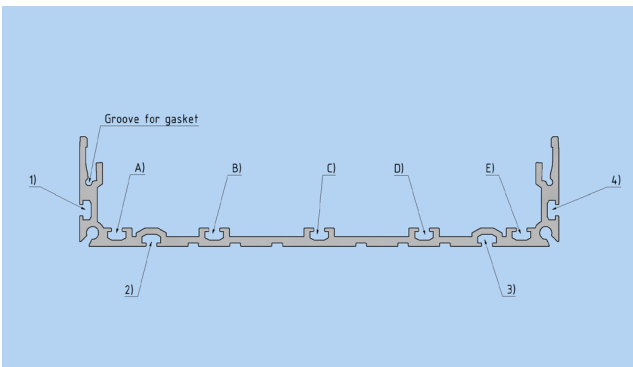For euroboard cards and customised electronic applications.
Due to its robustness and tightness up to IP65 it is particularly suitable for mobile applications in the outdoor area as well as desk housing for for measuring and test equipment. It is also possible to use the interior for subrack 3HE 42TE.

The small housing *InterShell IP* stands out due to its particular constructive features:

√   The notches outside of the profile can be used for threaded strips (pos. 1-4) or for fittings like clip-angle or stock mounting.

√   The notches internal the profile (5x, pos. A-E) are used for threaded strips and for additional parts like card guides.

√   Alternative surface treatments, e.g. colorless passivation or varnishing of all visible surfaces are possible.

√   Front panel and rear panel are made of 3mm metal sheed. On request, cut-outs for connectors as well as individual printing are possible.

√   Sidewall, front and back panel are made of bright sea water resistant aluminum. Surface treatments are also possible.

√   Front and rear panel are each fitted with 4 countersunk screws.

√   A sealing (ø2mm) can be inserted between the profile and the plugged-in side panel to protect against extraneous particles and splashed water.

√   The use of high-quality silicone sealings provides an optimal protection against foreign particles and moisture.

√   Optionally, two conductive variants of sealings are available in order to obtain an optimal EMC-shielding

•   Silicone filled with particles of nickel-plated graphite

•   Fluorosilicone filled with conductive particles of silver-plated aluminum

√   Feet-kit is available as an option and can be ordered separately.

This catalog contains stock and standard parts. Other products and sizes on request.

Technical Data

Dimensions	Small housing W 145 mm, H 81,8 mm basic Small housing for subrack 3 U-42 HP, W 234,3 mm, H 145 mm
Usable depth	150, 200, 250 mm (inner dimensions)
Materials	Screws: stainless steel, Assembled and threaded strips: steel or stainless steel profile and side panel: aluminium
Surface	Aluminium parts: blank or colorless passivated Steel parts: galvanized and colourless chromated
Protection class	IP 65 with sealing, otherwise IP43
Temprature range	-35 °C to +80 °C with sealing, otherwise -55 °C to +160 °C
Protective earthing	After assembly all metal parts have an electrically conductive interconnection acc. to VDE 100/12.65, § 6 Nb.

Dimension
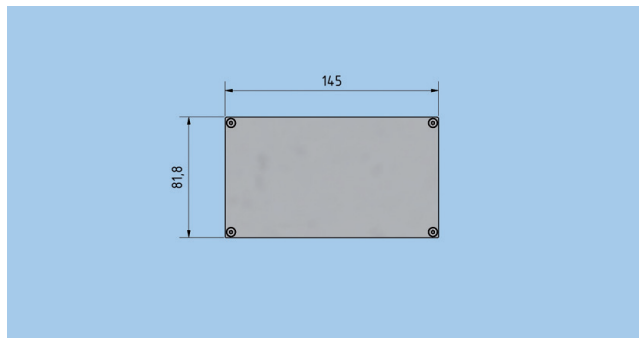
Housing InterShell IP basic
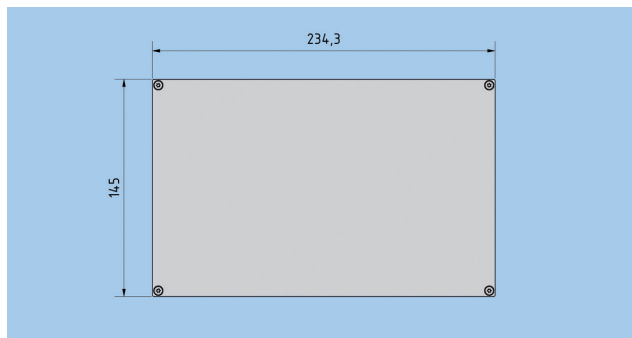
Housing InterShell IP for subrack 3 U 42 HP

Version 1
Housing *InterShell IP* basic

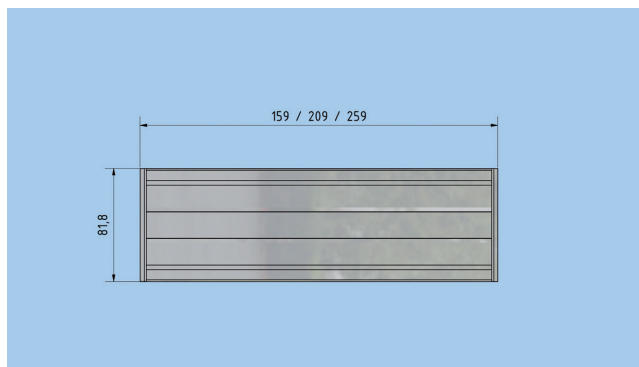Dimension front panel/rear panel
Width   145 mm
Height   81,8 mm

Version 2
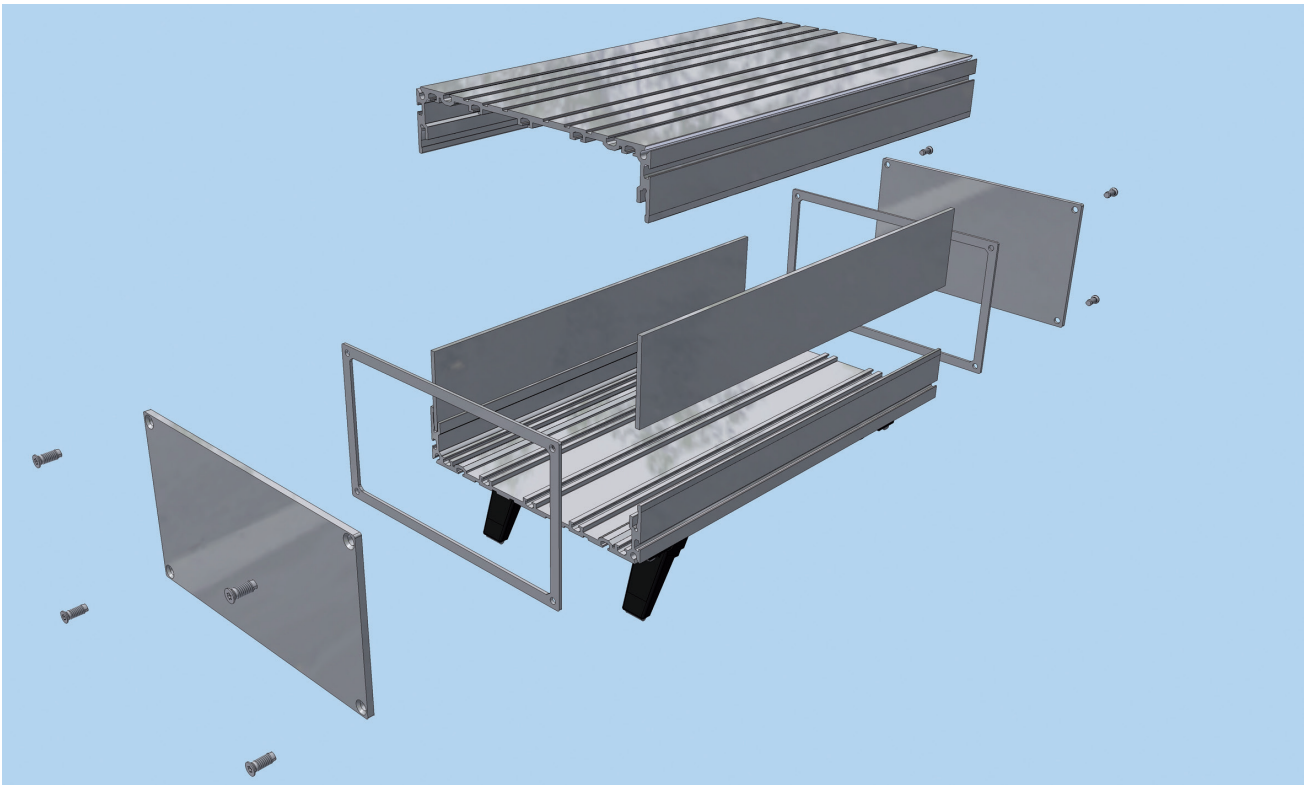### Housing *InterShell IP* for subrack 3 U-42 HP

Dimension front panel/rear panel
Width   234,3 mm
Height   145 mm

Housing InterShell IP basic

Housing *InterShell IP*

Version 1
Small housing *InterShell IP* basic

Ordering details

	Order-no. 409.
Depth dimensions 250 mm	180 910
Depth dimensions 200 mm	180 965
Depth dimensions 150 mm	180 967

Scope of delivery

	pieces per kit 250 mm	pieces per kit 200 mm	pieces per kit 150 mm
Half-shell l = 250 mm	2	-	-
Half-shell l = 200 mm	-	2	-
Half-shell l = 150 mm	-	-	2
Countersunk screw M 4 x 10	8	8	8
Cellular rubber Ø 2 mm	1 m	0,8 m	0,6 m
Side panel l = 250 mm	2	-	-
Side panel l = 200 mm	-	2	-
Side panel l = 150 mm	-	-	2
Front panel / back panel	2	2	2
Sealing for housing	2	2	2

This catalog contains stock and standard parts. Other products and sizes on request.

Version 2
Housing *InterShell IP* subrack 3 HE-42 TE

Ordering details for kits

	Order-no. **409.**
Depth dimensions 250 mm	**180 911**
Depth dimensions 200 mm	**180 966**
Depth dimensions 150 mm	**180 968**

Scope of delivery

	quantity in kit 250 mm	quantity in kit 200 mm	quantity in kit 150 mm
Half-shell l = 250 mm	2	-	-
Half-shell l = 200 mm	-	2	-
Half-shell l = 150 mm	-	-	2
Countersunk screw M 4 x 10	8	8	8
Cellular rubber Ø 2 mm	1 m	0,8 m	0,6 m
Roof panel/floor panel l = 250 mm	2	-	-
Roof panel/floor panel l = 200 mm	-	2	
Roof panel/floor panel l = 150 mm	-	-	2
Front panel/back panel 3 U 19"	2	2	2
Sealing for housing 3 U 42 HP	2	2	2

The silicon sealings are included in the basic kit.
Sealings made of conductive material must be ordered separately.

Sealings
Ordering details conductive sealing

	Fluorosilicone filled with conductive particles of silver-plated aluminum. order-no. **409.**	Silicone filled with particles of nickel-plated graphite. order-no. **409.**
Version 1 Housing *InterShell IP* basic	**180 913***	**180 914***
Version 2 Housing *InterShell IP* subrack 3 HE-42 TE	**180 918***	**180 919***

*Remark! Two seals are required per enclosure!
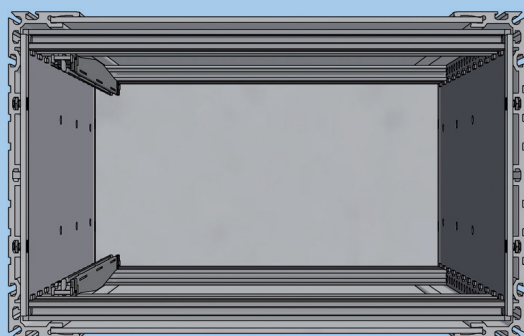
Housing *InterShell IP*
Kit to install 19 inch standard parts
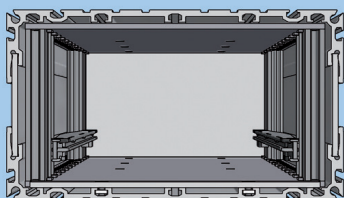
Housing InterShell IP basic

Assembly kit 19 inch standard parts
Housing *InterShell IP*

Scope of delivery

	quantity in kit
side panel 3 U - 220	2
profile rail U 2 13 HP	4
countersunk screw M 4 x 10	8
stop bar	2
threaded strip M 2,5 x 12 HP	4
countersunk screw M 2,5 x 6	4
square nuts M 2,5	4

Housing InterShell IP for subrack 3 U 42 HP

Assembly kit 19 inch standard parts
Housing *InterShell IP for* subrack 3 U-42 HP
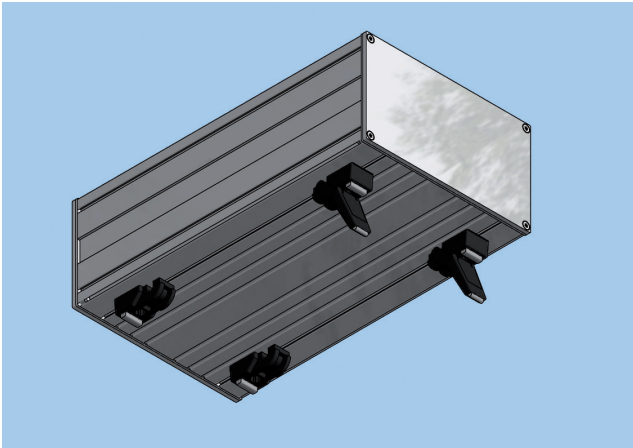
Scope of delivery

	quantity in kit
side panel 3 U - 220	2
profile rail U 2 13 HP	4
countersunk screw M 4 x 10	8
stop bar	2
threaded strip M 2,5 x 42 HP	4
countersunk screw M 2,5 x 6	4
square nuts M 2,5	4

Ordering details kits

	order-no. **409.**
Assembly kit 19 inch standard parts basic *InterShell IP*	**180 978**
Assembly kit 19 inch standard parts *InterShell IP for subrack* 3 U-42 HP	**180 979**

Both kits are only suitable for housing depths of 250 mm.

This catalog contains stock and standard parts. Other products and sizes on request.
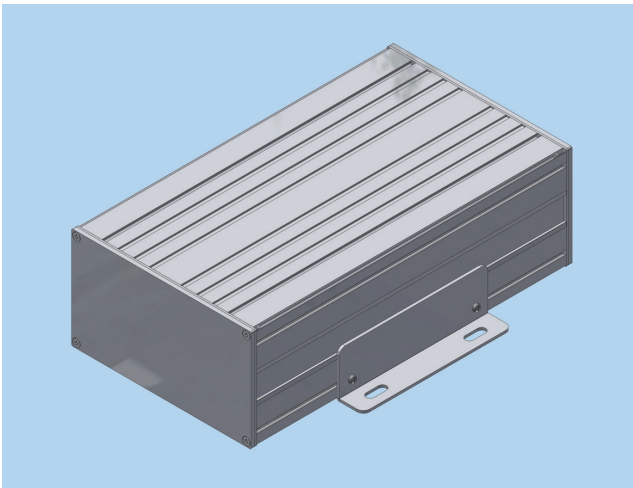
Housing feet

Foot kit
4 Feet without put-up hinge
2 put-up hinge with rubber
4 head screw M 3 x 8
4 washer A 3,2
4 square nut M 3

Material: ultramid
Color: black

Ordering details for kit

	order no. 409.	Alternative: a kit with 4 adhesive feet is available.
Foot kit	180 982	

Ground mounting

Version 1: Kit for basic housing
2 mounting angle
4 head screw M 3 x 5
4 square nuts M 3

Version 2: Kit for 3U-42HP
1 mounting angle right 3 U
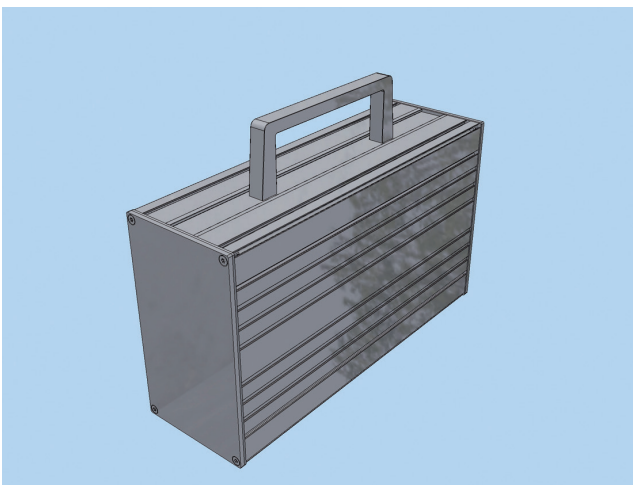1 mounting angle left 3 U
4 head screw M 3 x 5
4 square nut M 3

Material: aluminium
Surface: blank

Ordering details for kit

	order no. 409.
ground mounting	180 969
ground mounting 3 U 42 HP	180 970

Both kits are suitable for housing depths of 250/200/150 mm

Handle

Scope of delivery
2 countersunk screw M 4 x 12
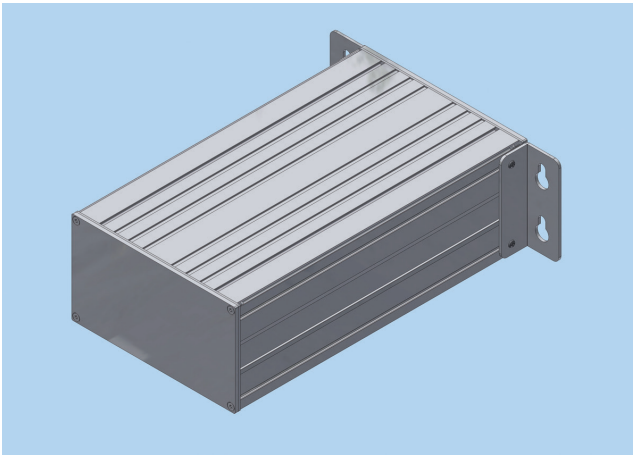1 handle 3 U

Material: aluminium
Surface: anodized

Ordering details for kit

	order-no. 409.
handle kit	180 974

Kit only for *InterShell IP* basic version available.
Other handles on request.

Housing *InterShell IP*
Accessories

Wall mounting

Version 1: Kit for basic housing
1 mounting angle right
1 mounting angle left
4 head screw M 3 x 5
4 square nut M 3

Version 2: Kit for 3 U-42 HP
1 mounting angle right 3 U
1 mounting angle left 3 U
4 head screw M 3 x 4
4 square nut M 3

Material: aluminium
Surface: blank

Ordering details for kit

	order no. 409.
wall mounting kit	180 972
wall mounting kit for 3 U 42 HP	180 973

Stock mounting and stock mounting heavy version

scope of delivery for kit
2 mounting plate
8 head screw M 3 x 5
8 square nut M 3

scope of delivery for kit heavy version
2 mounting plate heavy version
8 head screw M 3 x 5
8 square nut M 3

Material: aluminium
**Surface:**   blank

Angle for stacking

Angle for stacking - heavy version

Ordering details for kit

	order no. 409.
mounting angle	180 975
mounting angle heavy	180 976

Both kits are suitable for housing depths of
250/200/150 mm
Both kits are only available for InterShell IP basic
structure.

This catalog contains stock and standard parts. Other products and sizes on request.
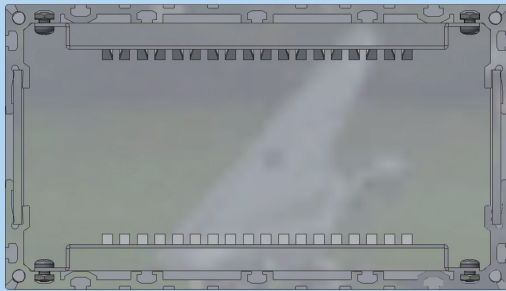
Card guide 2 U vertikal

Scope of delivery - depth 250/200 mm
2 card guide vertikal 2 U für depth 250/200 mm
12 head screw M 3 x 4
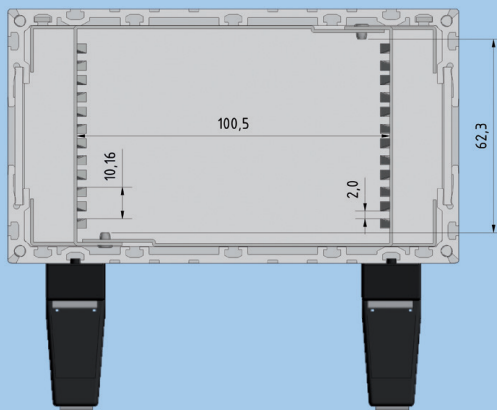12 square nut M 3

Scope of delivery - depth 150 mm
2 card guide vertikal 2 U für depth 150 mm
12 head screw M 3 x 4
12 square nut M 3

Material: steel
Surface :   galvanised

Ordering details for kit

	order no. 409.
Kit card guide 2 U 250/200 mm	180 971
Kit card guide 2 U 150 mm	180 981

card cage (horizontal framing for circuit boards as Euro-card format)

Scope of delivery horizontal
1 card cage komplett
6 head screw M 2,5 x 4
2 threaded strip M 2,5 x 39 TE anreihbar

Material: steel
Surface :   galvanized

Ordering details for kit

	order no. 409.
Kit card cage	180 977

Kit only suitable for housing depths of 250 mm.
Kit only available for *InterShell IP* basic construction.

Technical changes and errors reserved.