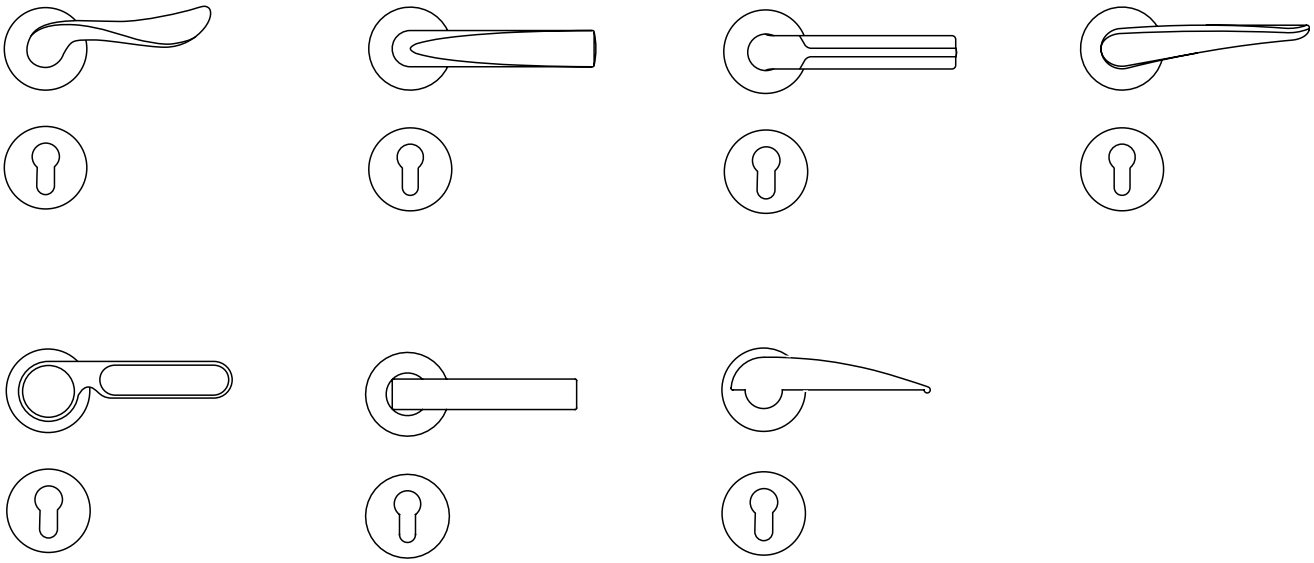
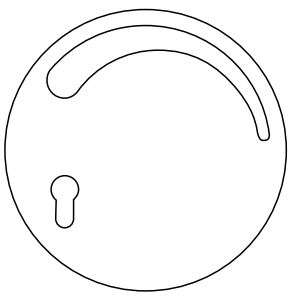
Designer programme

3

Designer programme





Under the heading 'Designer programme', we have bracketed product ranges bearing the hallmark of a given designer. A product range generally consists of one or two lever handles, the attendant window handle plus doorknobs and door stops. Our European 'names' include:

the German Dieter Rams, whose striking handles so fully bear out his dictum that 'less is more';

the Englishman Jasper Morrison with his predilection for the unassuming, tangible and hefty;

the Frenchman Philippe Starck, who proves that, even when designing the most commonplace of products, it is possible to infuse a strong personal touch without sacrificing functionality;

the Dutchman Ton Haas, who feels that, above all, a Dutch handle needs to have bulk;

the German husband-and-wife designer duo rahe + rahe, who wished to gift the Bauhaus town of Dessau a handle of their own;

our colleague Hartmut Weise with his light and breezy stainless steel collection;

the English architect Nicholas Grimshaw, who imparts styling common in the cutlery industry to his door handles;

the Dane Erik Magnussen, who created a handle collection out of folded stainless steel strip that has the lightness of a Scandinavian gull's wing-beat;

the German architect Hans Kollhoff with his clean-lined handles that exude the spirit of the legendary 1930s.

And our designers' hall of fame does not overlook the doyen of unsung industrial design, our very own Johannes Potente, either. You will find his classics both here in this work aid and in the permanent collection at the MoMA in New York.

On the subject of 'unsung in-house designs', the most recent major creation of this sort by FSB was the product not of one but of 650 authors. Together, we have developed a range of fittings over the past few years that accords with the rules of the Golden Section.

Handle Programme
Hartmut Weise

In the spring of 2000, we gave our in-house designer Hartmut Weise a clear brief: 'Please design us some treats for Hand and Eye or else tools for the Hand and treats for the Eye. Both in stainless steel.'. Hartmut Weise promptly set about punching, stamping, lasing, cutting and jointing. Very much in the spirit of the 'new flatness', he fashioned a series of designs with one thing in common - the inherent formal momentum of parts punched out of flat metal and then jointed together.

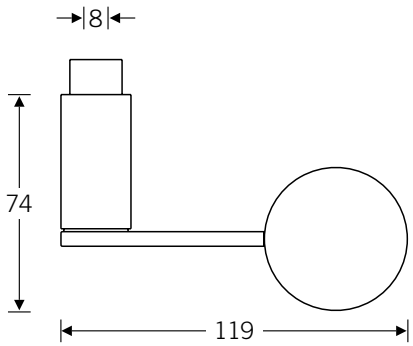
The lever handles were soon joined by designs for door knobs plus handles and fasteners for windows. A novel backplate was also conceived. All items were supplied in a satin finish as standard, and optionally in a mirror polish variant.

Following his globally successful debut with the ecologically focused 'FSB light' handle series in aluminium, Hartmut Weise has thus again made his mark in the design world. Incidentally, the initial 'FSB light' series has been so successful that we have propelled it from the Name Design section to the main body of the Manual, where attention is directed less towards the name of the author than towards the degree of long-term market take-up.

Eye + Hand
Lever handle

1192

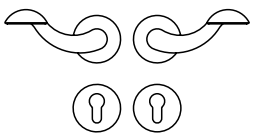
Satin stainless steel
Mirror polished stainless steel



3

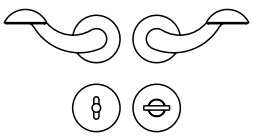
With his first two design efforts in stainless steel, Hartmut Weise adopts and adapts a formal vocabulary for the things we use day in, day out, that has been passed down by several generations. Despite the flatness of the material used, bulkiness and gripping volume are provided for the Hand, whilst curvaceous lightness flatters the Eye – something particularly dear to the designer's heart. We dubbed this the 'Eye + Hand' series as a result.

Order proposal:



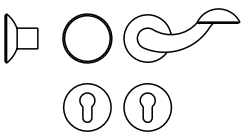
Internal door set

Lever handle	1192
Rose	1707
Escutcheon	1708



Bathroom furniture

Lever handle	1192
Rose	1707
WC set	1708 7754



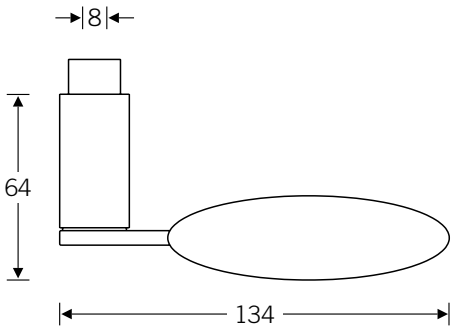
Entrance door set

Lever-female part	1192
Rose	1707
Escutcheon	1708
Door knob	2392 06

Eye + Hand
Lever handle

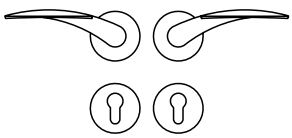
1194

Satin stainless steel
Mirror polished stainless steel



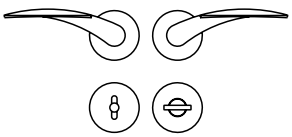
Whereas FSB 1192 constitutes a modern re-design of the famous post-horn lever handle, FSB 1194 takes up the equally famous duck's bill motif in a new guise. Together with Mario Botta, Hartmut Weise is of the view that every generation should be allowed to re-interpret tradition with its own vocabulary and materials. Only in this way can there be progress.

Order proposal:



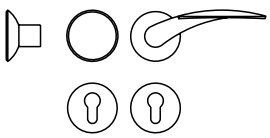
Internal door set

Lever handle	1194
Rose	1707
Escutcheon	1708



Bathroom furniture

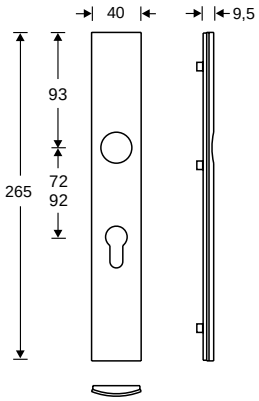
Lever handle	1194
Rose	1707
WC set	1708 7754



Entrance door set

Lever-female part	1194
Rose	1707
Escutcheon	1708
Door knob	2392 06

Eye + Hand Backplate



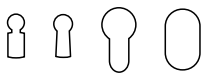
1432 72 + 92 mm

Satin stainless steel
Mirror polished stainless steel

All design efforts at FSB are rooted in the Renaissance concept of 'disegno'. It follows, therefore, that every FSB product is called upon to mirror the company's 120-year-old design tradition. Hartmut Weise is likewise bound by this duty, which as well as covering principal products also extends to accessories. It is now several years since he came up with curved roses that found great favour in the marketplace as an alternative to the angular styling of the flat roses. Now, he has added a curved backplate in stainless steel that appears to hover on its plastic base. This innovative design departure again embodies the 'new flatness'. Airy visuals virtually cancel out the materiality of the stainless steel.

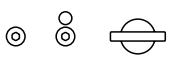
3

Keyholes



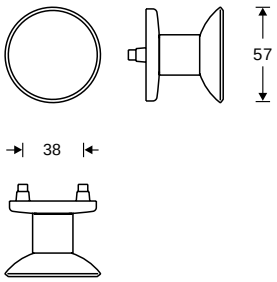
BB CH PZ OZ

Bathroom/WC version



S WC R

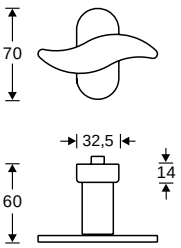
Eye + Hand
Door knob
Window handle



2392 06

Satin stainless steel
Mirror polished stainless steel

concealed through fixing
c:c screw holes 38 mm



3793

Satin stainless steel
Mirror polished stainless steel

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

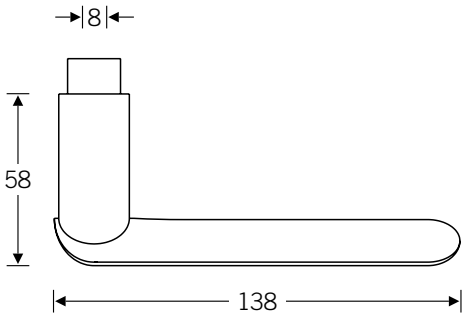
RAL Gütezeichen Rastoliven

Technical information page 134

Hand + Eye
Lever handle

1196

Satin stainless steel
Mirror polished stainless steel

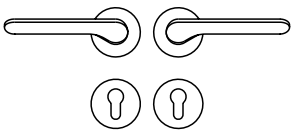


3

Departing from punching, stamping and jointing, Hartmut Weise resorted, in design tests for a second range of hardware, to the latest options afforded by laser technology. As his starting point he selected proprietary tube rounds in stainless steel. Using the laser, he cut sections out of these rounds to produce hollow shapes that are a treat to Hand and Eye alike. Since the emphasis is on the Hand in this range, we are calling it 'Hand + Eye'.

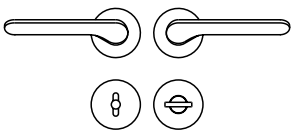
FSB 1196 tidily lets the laser beam run either inline or along precisely defined curves in compliance with the rules of classical modernism, with the result that the hefty tubular section nestles snugly in the hand and even suggests a certain symmetry to the eye.

Order proposal:



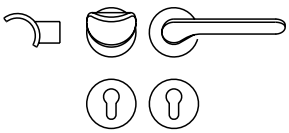
Internal door set

Lever handle	1196
Rose	1707
Escutcheon	1708



Bathroom furniture

Lever handle	1196
Rose	1707
WC set	1708 7754



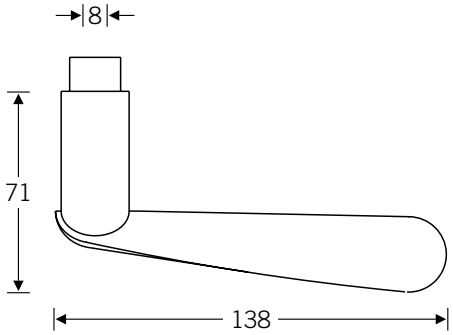
Entrance door set

Lever-female part	1196
Rose	1707
Escutcheon	1708
Door knob	2396 06

Hand + Eye
Lever handle

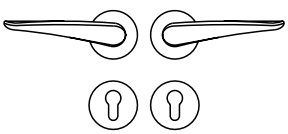
1197

Satin stainless steel
Mirror polished stainless steel

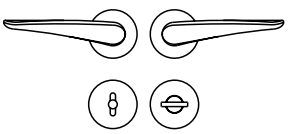


FSB 1197 makes quite different demands of the laser beam. The profile is cut out of the tube in a dynamic turning motion. The styling points the way. This handle does not in the first instance seek to be ogled but rather to be operated by the hand.

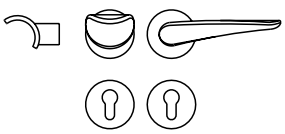
Order proposal:



Internal door set	
Lever handle	1197
Rose	1707
Escutcheon	1708

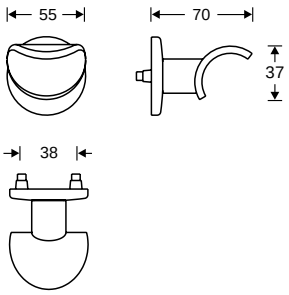


Bathroom furniture	
Lever handle	1197
Rose	1707
WC set	1708 7754



Entrance door set	
Lever-female part	1197
Rose	1707
Escutcheon	1708
Door knob	2396 06

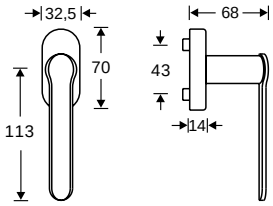
Hand + Eye
Door knob
Window handle



2396 06

Satin stainless steel
Mirror polished stainless steel

concealed through fixing
c:c screw holes 38 mm



3796

Satin stainless steel
Mirror polished stainless steel

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

RAL Gütezeichen Rastolíven

Technical information page 134

Hartmut Weise was likewise intent on adding a distinctive touch to accessories for the 'Hand + Eye' range. His door knob and window handle represent the world of hardware in a youthfully effervescent manner.

Handle Programme
Ton Haas

For over a decade now, FSB has been looking into a succession of European neighbours' visions of the definitive door handle. At the beginning of the new millennium we knocked at Holland's door.

Ton Haas, an experienced and committed industrial designer, heeded our pleas and plunged head-first into the adventure that is the door handle. He describes his attempts to close in on the subject better than any outside party could:

'Some things look more straightforward than they actually are, a fact that led me to underestimate the door handle. What, for God's sake, is a Dutch door handle after all? We live here in a multicultural society. Wherever we look, we see water. We can build dikes and are experienced traders. Being Calvinists, we have a clear will and we proceed self-confidently. But door handles? I think a Dutch door handle ought to be substantial and to give the hand something to get hold of. Clear ideas need strong handles.'

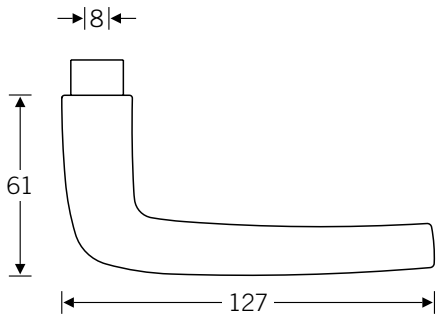
Having put in some hard work, Ton Haas presented us with half a dozen door-handle designs. We jointly opted for one of them, around which he modelled an entire family of Dutch fittings. The watchword now is:

'Oranje Boven'.

Lever handle

1179

Aluminium natural colour anodised

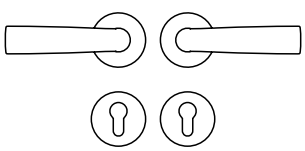


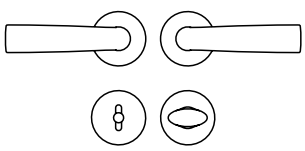
No matter how much we enjoy setting lever handles to words, some designs present us with well-nigh insurmountable obstacles. Had Ton Haas taken a standard tubular handle and simply flattened it into an upright oval shape on his anvil? Or had he got two geometric shapes to merge seamlessly together?

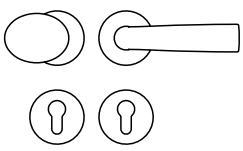
The simplicity of the various means used to lend new form to a tool for operating doors never ceases to amaze. FSB 1179 enters the world of hardware as inconspicuously as if it were an old hand.

Thank you, Ton Haas.

Order proposal:

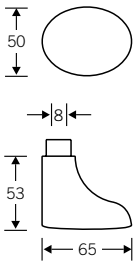






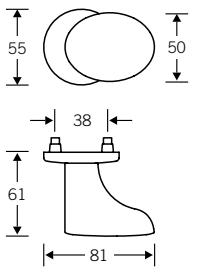
Standard fittings	1179 I 1707 I 1708	1179 I 1707 I 1708 7854	1179 I 1707 I 1708 I 2379 06
Project fittings	7279 63	7279 65	7279 62
Fire door fittings	7679 63		7679 62
acc. to German DIN standard			

Knob handle
Door knob



0879 8 mm □

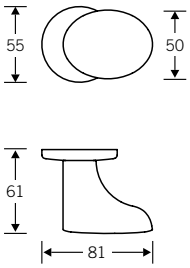
Aluminium natural colour anodised



2379 06

Aluminium natural colour anodised

concealed through fixing
c:c screw holes 38 mm



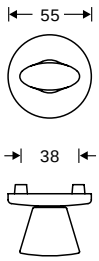
2379 05

Aluminium natural colour anodised

concealed face fixing

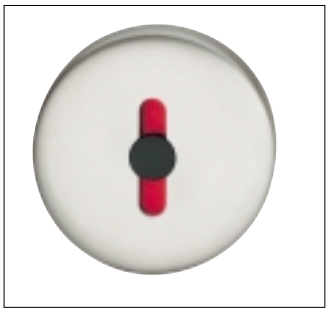
Ton Haas really hit the mark with his doorknob design. He expertly varies the transition from circular styling to oval gripping area. The substantial knob can be deployed either as a dead knob or, with spindle attachment, instead of a lever handle.

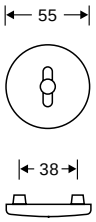
WC set
Cabinet knobs

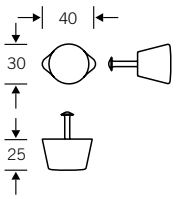


1708 7854

Aluminium natural colour anodised



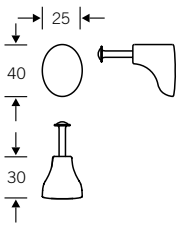




3681

Aluminium natural colour anodised

Screws M4 x 30 mm



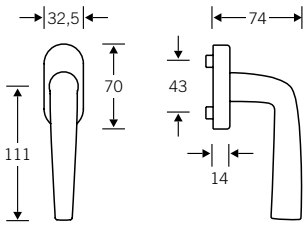
3682

Aluminium natural colour anodised

Screws M4 x 30 mm

Ton Haas rounded off our new Dutch handle collection with cabinet knobs and thumbturns.

Window handle
Lever handles for framed doors



3779

Aluminium natural colour anodised

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

RAL Gütezeichen Rastoliven

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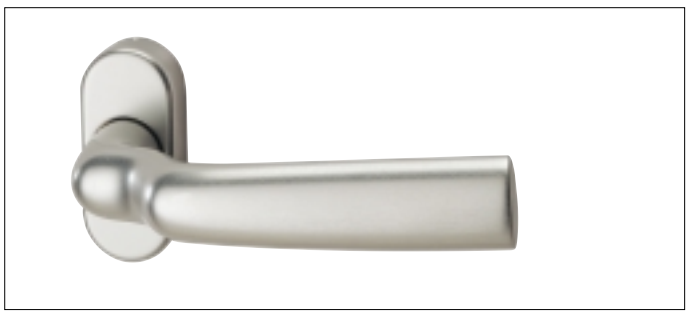
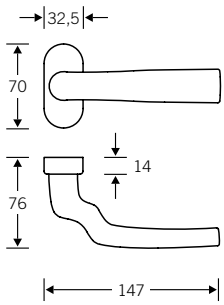


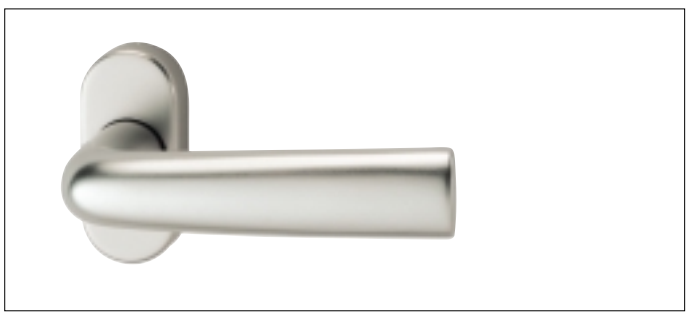


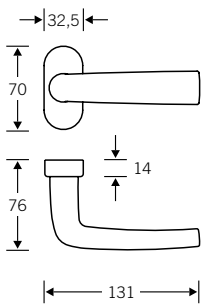
0679 21

Aluminium natural colour anodised

0679 22 F

Aluminium natural colour anodised





7279 25

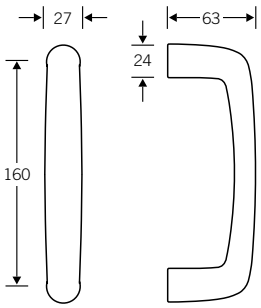
Aluminium natural colour anodised

7679 25 F

Aluminium natural colour anodised

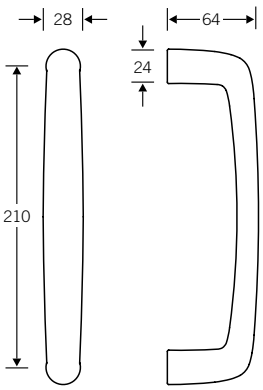
The window and narrow-frame door handles echo the styling of the lever handle, with circular giving way to oval.

Pulls



3683

Aluminium natural colour anodised



3684

Aluminium natural colour anodised

Special circumstances gave rise to two pull handles with different 'A' dimensions. On a tour of Rotterdam with Ton Haas, we discovered that large numbers of Dutch doors are fitted with pulls instead of dead knobs. Ton Haas was immediately tempted to submit a proposal of his own to his compatriots. We subsequently patronised a recently re-opened concert hall at the same location and noticed that here, too, a not insignificant number of obsolescent pulls from the 1950s had been installed. Since Ton Haas is personally acquainted with the building's designer, this was a fitting opportunity for him to demonstrate to this friend too that, in the new millennium, one ought to have the courage to embrace new forms. We were glad to put Ton Haas's design stimuli to effect, indeed they can be found both in the Designer programme and in the main body of the Manual.

Handle Programme
rahe + rahe

When the young architect Walter Gropius was given the opportunity in the convulsive 1920s to build a shoe-last factory at Aalfeld, he commissioned Loevy of Berlin to produce the door handles. This angular machine handle with round grip (FSB 1102) came, along with Wittgenstein's handle (FSB 1147) and the model by the Frenchman Mallet-Stevens (FSB 1076), to epitomise early modernism. The Gropius handle followed in the traces of its creator. It was fitted at the Bauhaus premises at Weimar and later at Dessau. It has wrongly been referred to since as the Bauhaus handle or the handle from Dessau.

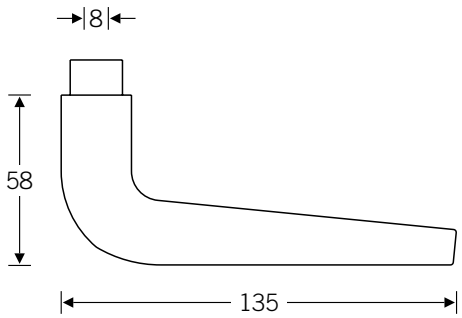
A genuine door handle for and from Dessau was produced in the design workshop of the Rahe husband-and-wife business. rahe + rahe designed a handle collection for the new Dessau college campus sited right next to the Bauhaus building and containing seminar rooms, student ateliers, professors' and staff offices, lecture halls, an admin wing, dining hall and cafe, and chose FSB to be their development associates.

Their design follows seamlessly on from the great masterpieces of modernism.
A circular handle element that gently arcs back towards the door has had its front surface flattened off in such a way that, front on, the door and handle run parallel, though the back of the handle does retreat a little from the leaf of the door. This elemental, innovative design feature defines the entire collection, an unobtrusive, functional range of handles that offer themselves up for use by the hand.

Lever handle

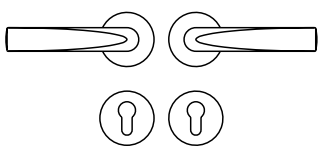
1149

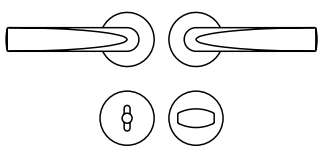
Aluminium natural colour anodised

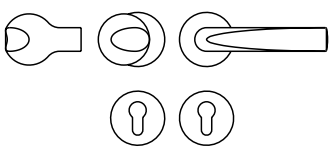


Three design constituents go to make up the grace of the rahe+rahe door handle. First, there is the conical, flat styling visible front-on that emerges from the tubular material. This bisects the end face, giving rise there to a striking semi-circle as the second constituent. The third constituent is heftiness deriving from the slight angle of extension of the back of the door handle. It is the harmonious interplay of these three constituents that gives the rounded tube its striking and innovative identity.

Order proposal:

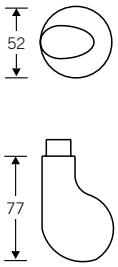






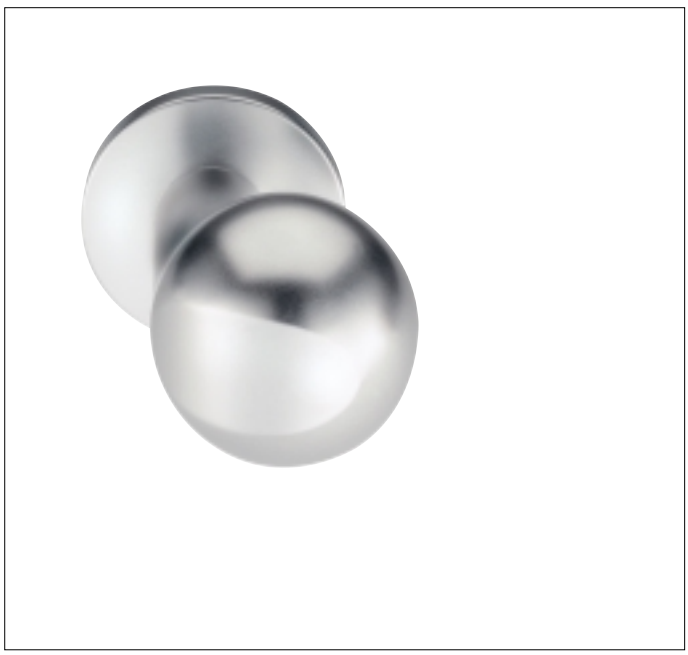
Standard fittings	1149 I 1731 I 1735	1149 I 1731 I 1735 0054	1149 I 1731 I 1735 I 2318 06
Project fittings	7249 13	7249 15	7249 12
Fire door fittings	7649 13		7649 12
acc. to German DIN standard			

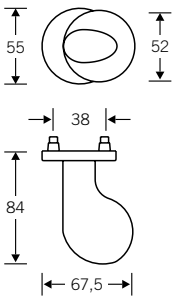
Knob handle
Door knob



0818 8 mm □

Aluminium natural colour anodised



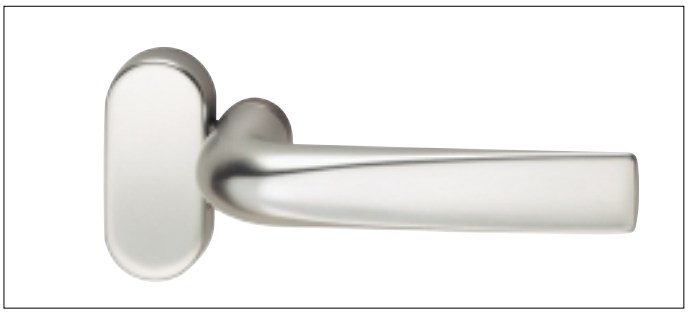


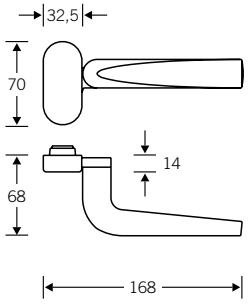
2318 06

Aluminium natural colour anodised

concealed through fixing
c:c screw holes 38 mm

Lever handles
for framed doors
Window handle



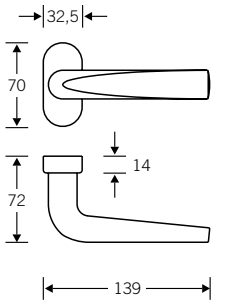


0649 17..

44 r.h. I 45 l.h.
Aluminium natural colour anodised

0649 18.. F

44 r.h. I 45 l.h.
Aluminium natural colour anodised



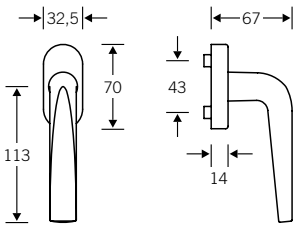
7249 25

Aluminium natural colour anodised

7649 25 F

Aluminium natural colour anodised

3



3448

Aluminium natural colour anodised

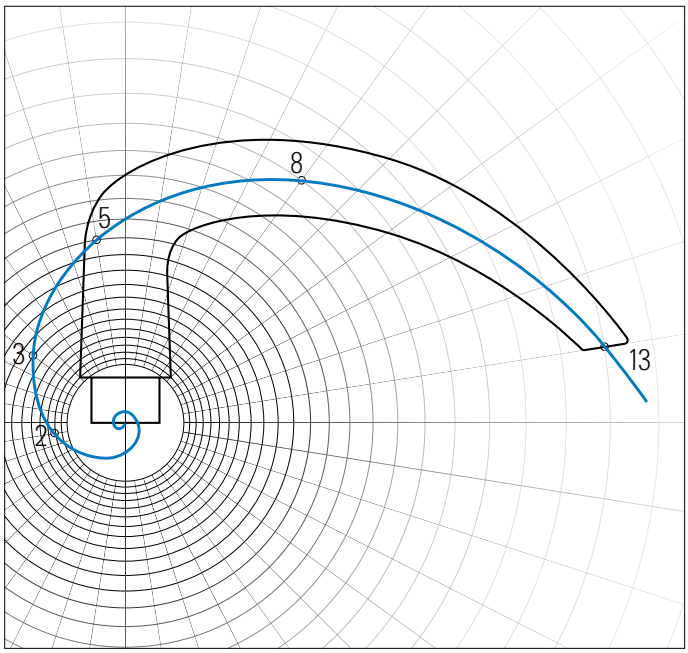
Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

RAL Gütezeichen Rastolivenn

Technical information page 134

Although the styling for door and window handle is essentially the same, the window model makes a completely different visual impact. Its flattened front surface clearly mirrors the glass plane of the window.

Works Design



Three door handles in search of the irrational measure of beauty or the golden spiral as the soul of handle culture:

Having read a book on the 'Nature of Beauty' by Friedrich Cramer and Wolfgang Kämpfer, we at FSB hit upon the idea of fathoming the mystery of beauty in the world of door handles with the aid of the Golden Section.

The mystery of beauty, we had read, is closely bound up with the history of an irrational number whose mysterious power man had been attempting to interpret since Vitruvius (first century B.C.). We learnt about multifarious endeavours by leading minds to visualise this mystery-enshrouded number, we read about proportioned sketches by Leonardo da Vinci and the series of numbers discovered by Leonardo of Pisa (1170 to 1220), read about flying squares and less flightworthy rectangles. We discovered that this 'ineffable number' (Johannes Kepler, 1571 to 1630) is a symbol for the dynamics of the life process that is generally regarded as being beautiful if it adheres to the principle of self-similitude. One merely needs to observe the natural growth spiral of a sea-shell, a daisy or a sunflower's infructescence.

Fascinated by these mathematical interpretations of beauty in nature, we immediately harnessed the dynamics of the Golden Section for our own purposes and came up with a pleasing door-handle style.

In our Design Engineering dept. we generated a radial grid system in our CAD system, entered the technical specifications for a door handle and, with the aid of right angles and Fibonacci's numbers (0, 1, 1, 2, 3, 5, 8, 13, ...), constructed a line through swirling rectagles.

Before our eyes, the aesthetic soul of a handle form gently reclining towards the door materialised – an irrational measure so compelling we were a little dumbfounded.

The rest was plain sailing. Drawing on our ergonomic know-how, we arrived at three handle cross-sections, one traditionally circular, one ergonomically triangular, and one elegantly square.

We, the 650-strong FSB workforce, are proud of our new co-operatively produced lever-handle collection. The market had been getting on at us for years to provide an alternative to the classic lever-handle style rooted in the Pythagorean laws and incapable of more than 'harmonia et symmetria'. It was not until we shot a glance at Nature and familiarised ourselves with the laws of the Golden Section and the mystery of the irrational proportional number that we hit upon the innovative alternative the market was anticipating by way of the dynamic golden growth curve.

Design Center Stuttgart

Ausgezeichnet!

FSB 7010, 7011, 7012

1999

Industrie Forum Design Hannover

Product Design Award + Ecology Design Award

FSB 7010, 7011, 7012

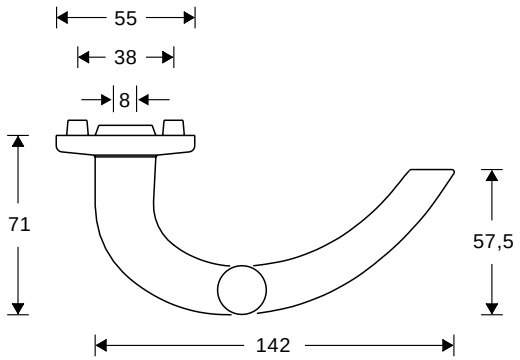
2000

Lever handle

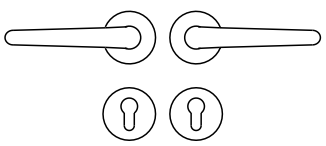
7010

Aluminium natural colour anodised
Stainless steel

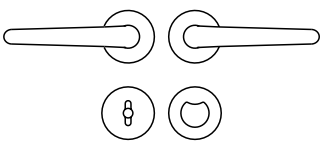
In works design FSB 7010, the 'dynamic golden growth spiral' was recreated with a round cross-section, the lever tapering progressively towards the tip. This effect enhances the momentum of the natural curvature. With its restrained looks and direction-of-motion styling, FSB 7010 is a joy to hold and use.



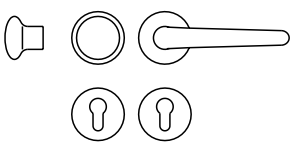
Order proposal:



Internal door set
Standard fittings 7010 63
Project fittings 7210 63
Fire door fittings 7610 63
acc. to German DIN standard



Bathroom furniture
7010 65
7210 65



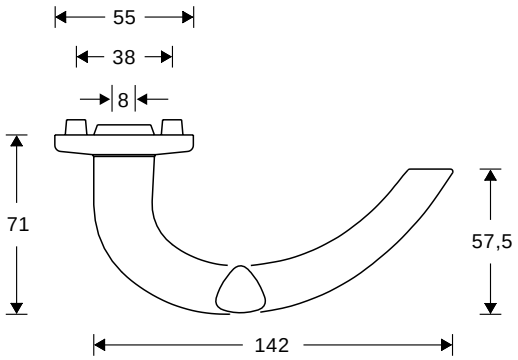
Entrance door set
7010 66
7210 66
7610 66

Lever handle

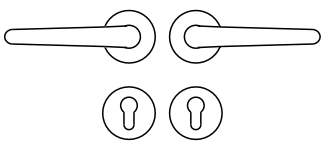
7011

Aluminium natural colour anodised
Stainless steel

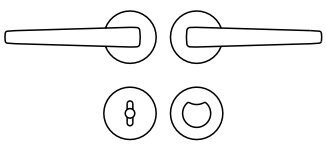
In the case of works design FSB 7011, the round cross-section of the FSB 7010 model makes way for an ergonomic triangular form. Very striking here is the organic ease with which the shank of the handle initiates the 'dynamic golden growth spiral' and oversees a tapering of the grip's cross-section from 24 mm to 18 mm at the tip. This is an unobtrusive, non-slip design that reflects the direction of motion.



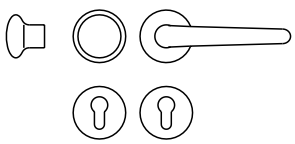
Order proposal:



Internal door set
7011 63
7211 63
7611 63 only Stainless steel



Bathroom furniture
7011 65
7211 65



Entrance door set
7011 66 r.h. | 7011 76 l.h.
7211 66 r.h. | 7211 76 l.h.
7611 66 r.h. only Stainless steel
7611 76 l.h. only Stainless steel

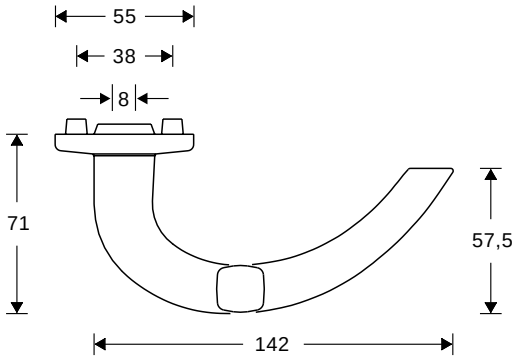
Standard fittings
Project fittings
Fire door fittings
acc. to German DIN standard

Lever handle

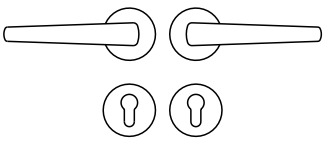
7012

Aluminium natural colour anodised
Stainless steel

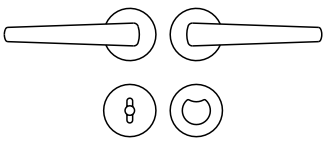
Works design FSB 7012 yokes the 'dynamic golden growth spiral' to an elegant square cross-section. In this series, we quite deliberately adopted three classical Euclidean forms – circle, triangle and square. We wanted to demonstrate that the 'dynamic golden growth spiral' applies for all forms. In this model, too, the grip tapers as the spiral expands. This tough handle is conducive to gripping and features direction-of-motion styling.



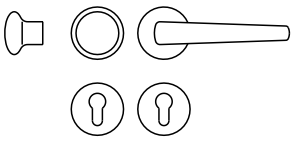
Order proposal:



Internal door set
7012 63
7212 63
7612 63 only Stainless steel



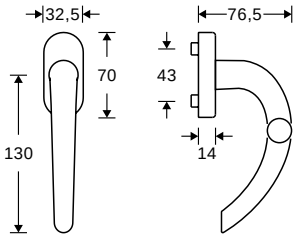
Bathroom furniture
7012 65
7212 65



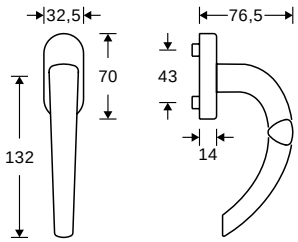
Entrance door set
7012 66
7212 66
7612 66 only Stainless steel

Standard fittings
Project fittings
Fire door fittings
acc. to German DIN standard

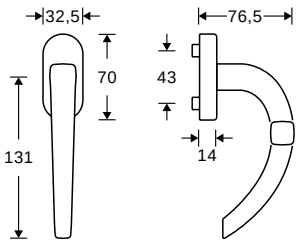
Window handles



3410



3411



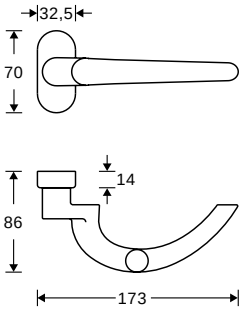
3412

Aluminium natural colour anodised
Stainless steel

Window handles with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

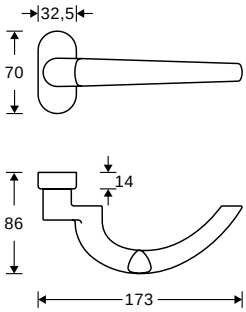
Technical information page 134

Cranked lever handles for framed doors on oval rose
with concealed fixing and support mechanism
8 mm ☐-hole
9 mm ☐-hole for fire- and smoke stop doors* Ⓕ



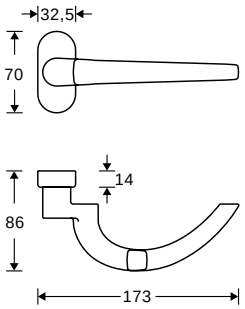
0680 21
Aluminium natural colour anodised
Stainless steel

0680 22 Ⓕ
Stainless steel



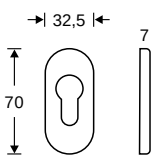
0681 21
Aluminium natural colour anodised
Stainless steel

0681 22 Ⓕ
Stainless steel

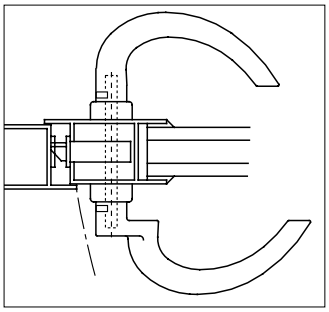


0682 21
Aluminium natural colour anodised
Stainless steel

0682 22 Ⓕ
Stainless steel



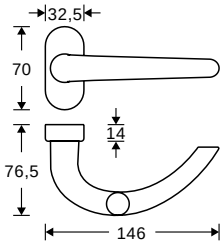
1757
Aluminium natural colour anodised
Stainless steel



The cranked lever handles shown on these pages are the proven precursors of the system set out on page 423. They are explained in detail on pages 422 and 423.

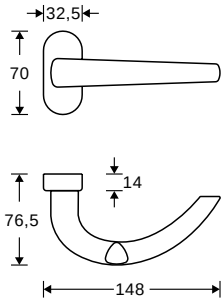
c:c screw holes 50 mm, for countersunk screws M5
Fixing accessories cf. page 486.

Cranked lever handles for framed doors on oval rose
with concealed fixing and support mechanism
8 mm ☐-hole
9 mm ☐-hole for fire- and smoke stop doors* Ⓕ



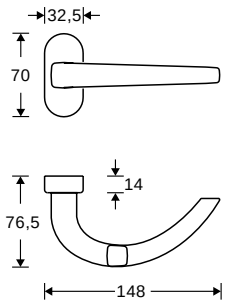
7210 25
Aluminium natural colour anodised
Stainless steel

7610 25 Ⓕ
Stainless steel



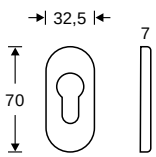
7211 25
Aluminium natural colour anodised
Stainless steel

7611 25 Ⓕ
Stainless steel



7212 25
Aluminium natural colour anodised
Stainless steel

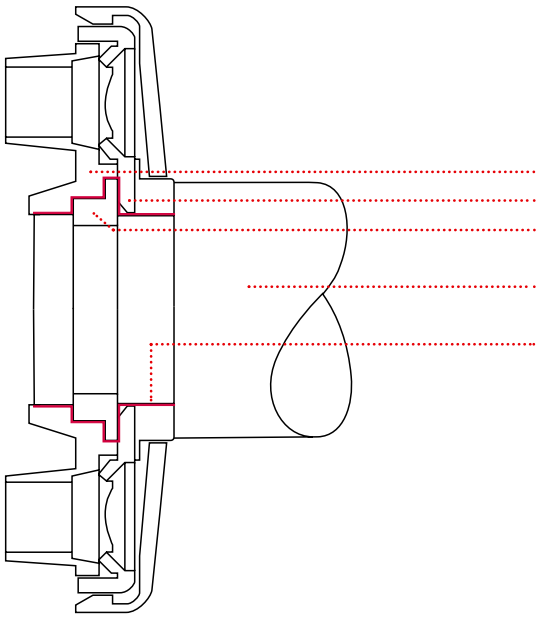
7612 25 Ⓕ
Stainless steel



1757
Aluminium natural colour anodised
Stainless steel

* acc. to German DIN standard

Bearing Specifications



Rose baseplate
Lever bearing
Retaining ring

Neck of lever

Length of bearing in mm: 12 + 2

For the bearing in its new lever handle series incorporating the principles of the 'dynamic golden growth spiral', FSB makes use of a copyrighted system that encloses the shank in a broad-wall bushing for its entire length, preventing it from slipping and delivering two-way support at the sides. Lever handles are supplied turnably fixed in a rose.

FSB lever handle set designed to the rules of the 'dynamic golden growth spiral'

- circular cross-section
  FSB 7010 and FSB 7210,
- triangular cross-section
  FSB 7011 and FSB 7211,
- square cross-section
  FSB 7012 and FSB 7212,

each tapering from 24 to 18 mm,

with 8mm FSB Stabil-spindles for door thickness . . . . mm, with all-over FSB broad-wall bushing, with non-slip rose fixing, roses with 8.5 mm lugs,

Aluminium natural colour anodised

Stainless steel,
with a satin nap or mirror polish

As fire door furniture Ⓕ FSB 7610, (FSB 7611, FSB 7612), in Stainless steel, prepared for fire doors and smoke-stop doors acc. DIN 18 273, supplied with 9 mm FSB Stabil-spindle for door thickness . . . . mm.

Paper template for FSB-roses
Item no. 8429 0096

Paper template for roses WC
Item no. 8429 0104

Handle Programme
Hans Kollhoff

The architect Hans Kollhoff has added contributions to our company's 'Design for Berlin' project. In the process, he has joined Josef Paul Kleihues, Richard Rogers and Nicholas Grimshaw with some panache.

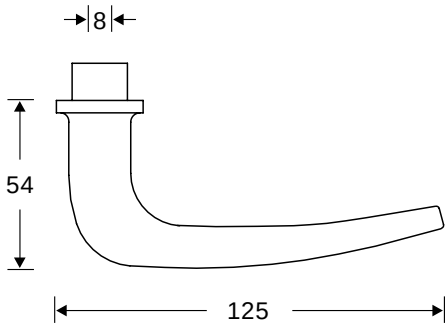
Born at Lobenstein in 1946, Hans Kollhoff studied architecture in Karlsruhe and New York. Having learnt the ropes with Oswald Matthias Unger, he set up his own architect's business in Berlin in 1978. The architectural scene in what was then West Berlin soon pricked up its ears. The housing he built on Luisenplatz received international acclaim. And the way Hans Kollhoff took off in the 'new' Berlin could have come as a surprise to no one: Malchower Weg estate, Potsdamer Platz, government buildings, Alexanderplatz project etc.

Hans Kollhoff advocates building that is thought through: re-addressing the essence of architecture, putting ideas found to effect in urban spaces, execution to the highest of standards – these are what inform his thoughts and deeds.

Lever handle

1163

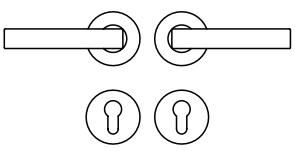
Aluminium natural colour anodised
Stainless steel



Hans Kollhoff's lever handle echoes the design vocabulary from the 30s of the last century, when Mies van der Rohe produced handle 3690 for Loevy. A circular shank mutates into a square-section lever.

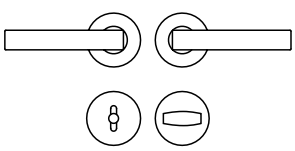
Hans Kollhoff re-interprets both elements with reference to the laws of the obvious and the unassuming. The emphasis is no longer on 'Softline' but on 'New Edge', or unfussy gripability. You can see and feel what you're taking hold of.

Order proposal:



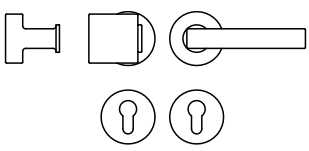
Internal door set

Lever handle	1163
Rose	1731
Escutcheon	1735



Bathroom furniture

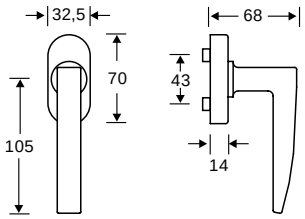
Lever handle	1163
Rose	1731
WC set	1735 0054



Entrance door set

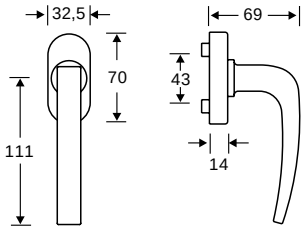
Lever-female part	1163
Rose	1731
Escutcheon	1735
Door knob	2333 06

Window handles

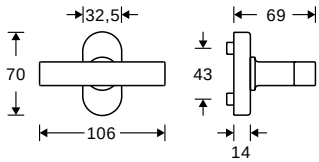


3433

Aluminium natural colour anodised



Stainless steel



3453

Aluminium natural colour anodised

Window handles with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

Together, the two window handles by Hans Kollhoff just about sum up what 'functional realism' is all about. The L-shaped model mimics the angular styling of the window and hence clearly sets itself apart from the lever handle, their underlying affinities notwithstanding.

The alternative twist handle features a rounded front to soften the hardness of the T design.

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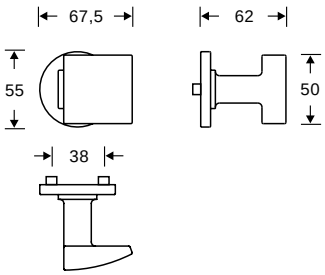
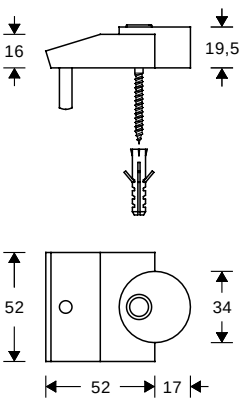
Door knob
Door stop



2333 06

Aluminium natural colour anodised
Stainless steel

concealed through fixing
c:c screw holes 38 mm



3820

Aluminium natural colour anodised
black plastics

The door knob and door stop adapt the lever handle styling to their own functional requirements.

Handle Programme
Josef Paul Kleihues

There are three things linking the architect Josef Paul Kleihues and FSB: firstly, he was born in Rheine (in 1933) and is thus a Westphalian compatriot; secondly, he urged us to follow in the footsteps of the legendary Loevy company in our 'Design for Berlin' project; and thirdly, he ensured in exemplary manner that our design can even be 'grasped' by the banks of Lake Michigan.

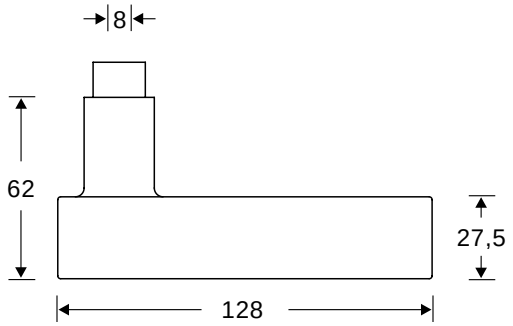
Josef Paul Kleihues studied architecture in Berlin, Stuttgart and Paris. At the age of 32, he started up his own architect's firm in Berlin. He soon established his architectural credentials in a building (main cleaning service depot in Berlin), planning (IBA) and lecturing (Dortmund, Düsseldorf) capacity. Critics interpret his distinctive architectural language as a mixture of functional rationalism and borrowings from the history of Prussian classicism. Josef Paul Kleihues prefers the term 'poetic rationalism'.

Projects completed while we were working with Josef Paul Kleihues include the Kant Triangle in Berlin, the Museum of Contemporary Art in Chicago and Hamburger Bahnhof railway station in Berlin.

Lever handle

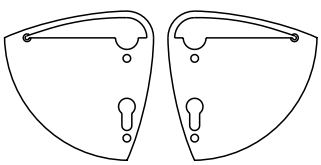
1048

Aluminium natural colour anodised



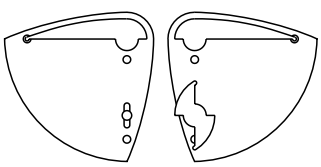
The door handle by Josef Paul Kleihues is the epitome of 'poetic rationalism'. Rational design engineering, poetic form. And that's equally true of the backplate. The handle's lyrical lines soften the consciously practical nature of the piece.

Order proposal:



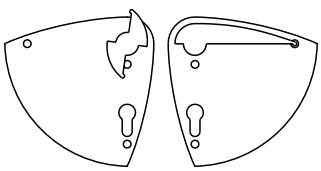
Internal door set

Lever handle	1048
Backplate	1448



Bathroom furniture

Lever handle	1048
WC set, r.h.	1448 4254
l.h.	1448 5254



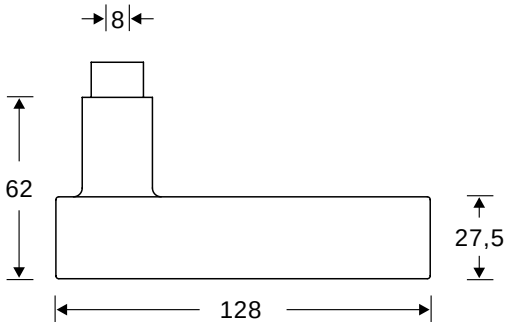
Entrance door set

Lever-female part		1048
Backplate		1448
Fixed knob	r.h.	1948 4210
backplate	l.h.	1948 5210

Lever handle

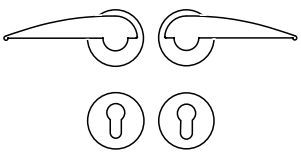
1048

Aluminium natural colour anodised



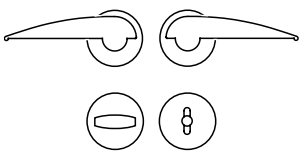
The door handle by Josef Paul Kleihues can also be fitted with roses. The unity of handle and backplate sought by the architect is admittedly lost, but the handle makes a more forceful impact as a result.

Order proposal:



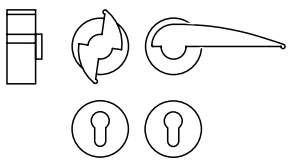
Internal door set

Lever handle	1048
Rose	1731
Escutcheon	1735



Bathroom furniture

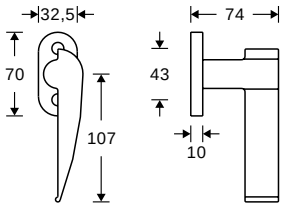
Lever handle	1048
Rose	1731
WC set	1735 0054



Entrance door set

Lever-female part	1048
Rose	1731
Escutcheon	1735
Door knob, r.h.	2373 0406
l.h.	2373 0506

Window handle
Door stop



3434

Aluminium natural colour anodised

3434 6400 r.h.
3434 6500 l.h.

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

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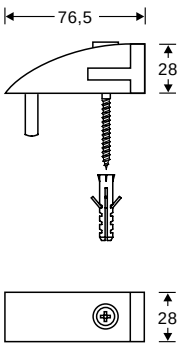
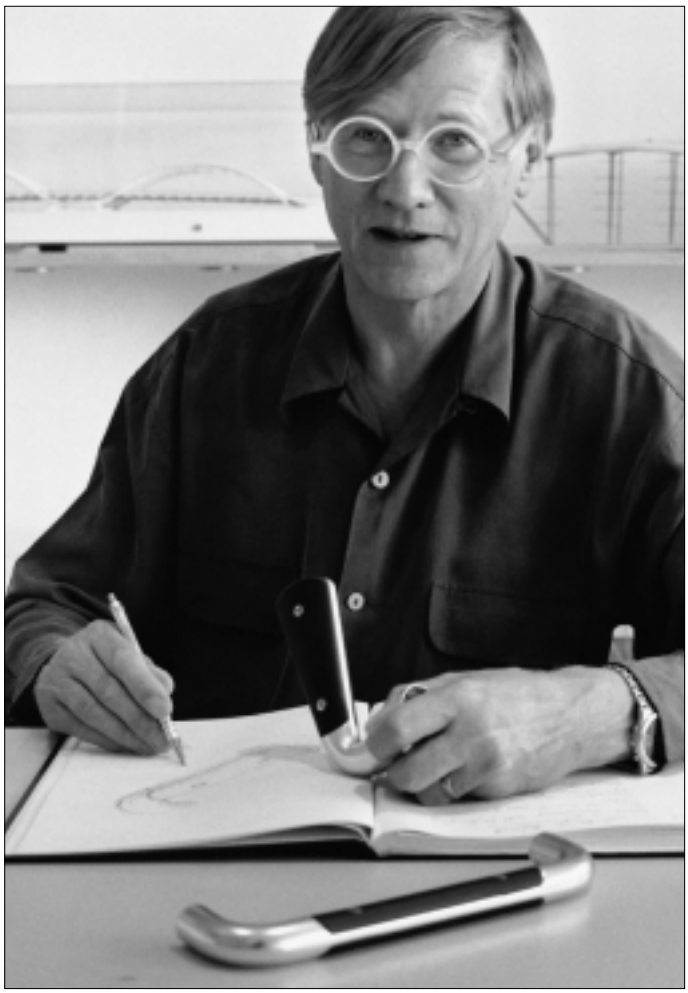
3



3819

Aluminium natural colour anodised

Handle Programme
Nicholas Grimshaw



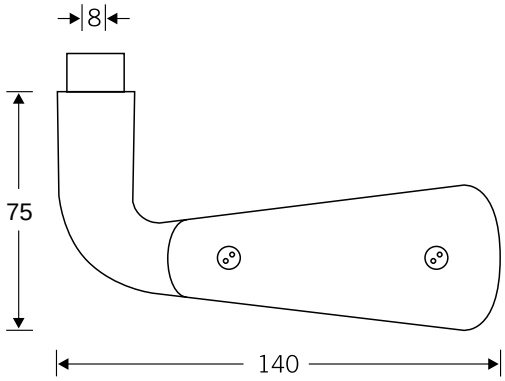
As had already been the case towards the end of the 19th century, Berlin is now once again one of the most engaging sites for new architecture anywhere in the world. The elite of the architectural and design scene are breaking new moulds here – and that goes for door handle design too – and we are proud to be in on the process. Take, for example, the handle by the famous British architect Nicholas Grimshaw, which he designed for his Berlin Chamber of Trade and Commerce project in 1996.

Grimshaw's handle range has been well-received by the market. Its design constituents are readily recognised and appreciated. Some (generally Europeans) instantly recall Scandinavian cutlery design, others (predominantly North Americans) are more readily reminded of the butt of a Colt. Which only goes to show that Nicholas Grimshaw and his team headed by Matt Keeler have managed to highlight the heftiness of the design. The designers made great demands of the FSB workforce's craft expertise. The production process calls for the coupling of very differing materials. Aluminium mouldings and composite injection mouldings are held together by stainless steel bolts.

Lever handle

1069

Aluminium natural colour
anodised
black plastics

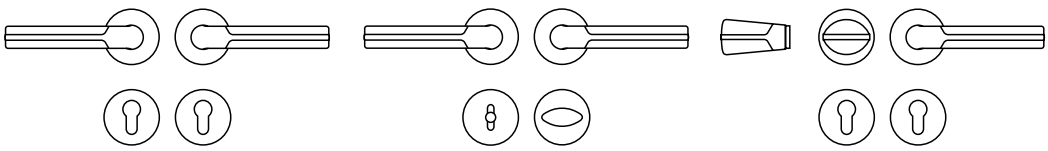


3

Nicholas Grimshaw's door handle design is notable for its easy readability. The grip appears to be saying 'to open please press'. The flattened bulk is clearly inviting the hand to envelop and operate it. The grip is as slender from the front as it is broad across the top.

The silver aluminium layer that separates the top of the grip from the bottom lends the design a sense of great lightness.

Order proposal:



Internal door set	
Lever handle	1069
Rose	1731
Escutcheon	1735

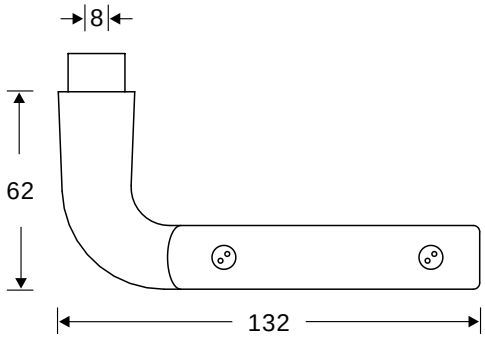
Bathroom furniture	
Lever handle	1069
Rose	1731
WC set	1735 6754

Entrance door set	
Lever-female part	1069
Rose	1731
Escutcheon	1735
Door knob	2369 06

Lever handle

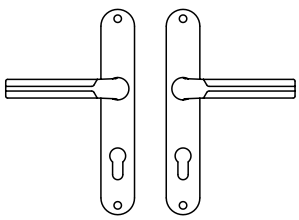
1064

Aluminium natural colour
anodised
black plastics



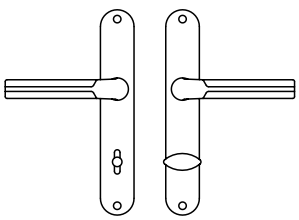
The design behind FSB 1064 is very much market-driven. An admirer of Nicholas Grimshaw's handle collection tentatively enquired whether his window handle design coupled with a narrow backplate could be re-interpreted as door furniture. It transpired that this was indeed possible without too much bother. Nicholas Grimshaw had no option but to go along with what was being done to his design work.

Order proposal:



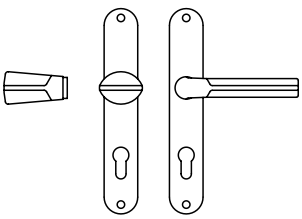
Internal door set

Lever handle	1064
Backplate	1417



Bathroom furniture

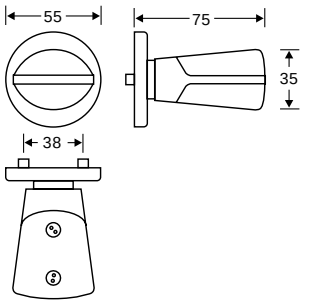
Lever handle	1064
WC Set	1417 6754



Entrance door set

Lever handle	1064
Backplate	1417
Knob backplate	1929

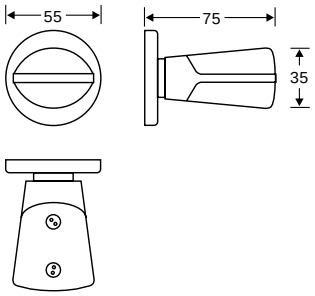
Door knob
Cabinet knob



2369 06

Aluminium natural colour
anodised
black plastics

concealed through fixing
c:c screw holes 38 mm

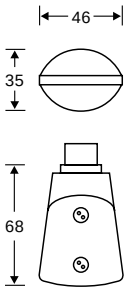


2369 05

Aluminium natural colour
anodised
black plastics

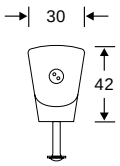
concealed face fixing

3



0869 8 mm □

Knob handle
Aluminium natural colour
anodised
black plastics



3669

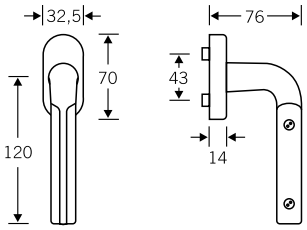
Aluminium natural colour
anodised
black plastics

Screws M4 x 30 mm

A third design element was incorporated into the doorknob and cabinet knob, one rooted firmly in function. With the emphasis in such hardware very much on the act of pulling, it is crucial that the hand be discouraged from simply slipping off. Nicholas Grimshaw and colleagues achieved this by having the knob emphatically taper in from the end.

Window handle
Coat hook
Roses WC

Where leverage was the key-note in the case of the door handle, the window handle has been designed very much with turning and pulling in mind. Round tubing has been bent and cut away in such a fashion that the silvery central strip and the gripping cheeks to either side immediately indicate to the eye whether the window is closed, open, or tilted.

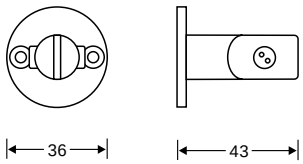


3469

Aluminium natural colour anodised
black plastics

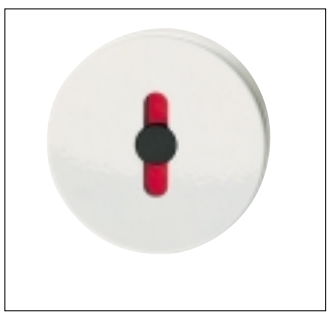
Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

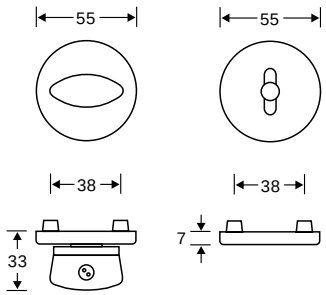
Technical information page 134



3668 01

Aluminium natural colour anodised
black plastics

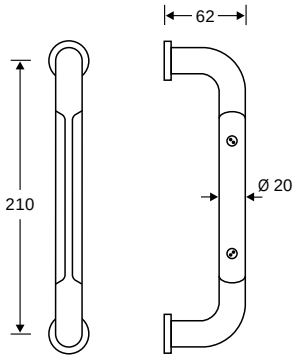




1735 6754

Aluminium natural colour anodised
black plastics

Door pull

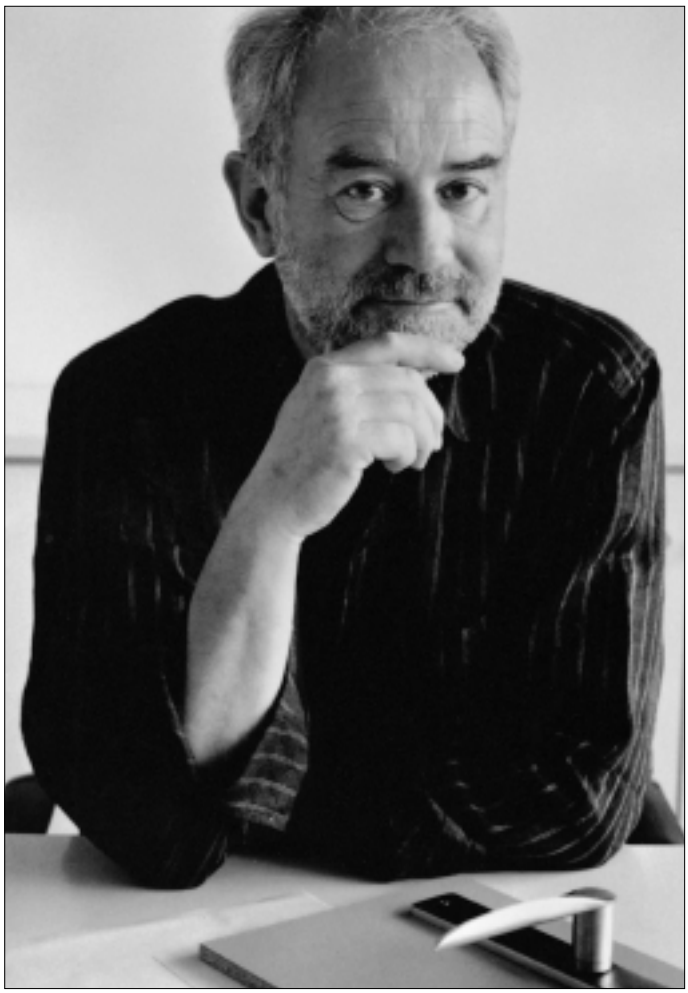


6619 21

Aluminium natural colour anodised
black plastics

In the Anglo-Saxon hardware market, short pulls with an A dimension of 210 mm figure in every collection. Nicholas Grimshaw was of the opinion that we shouldn't confine this item to the British market.

Handle Programme
Erik Magnussen



In early 1994, the Name Design series went Scandinavian and Erik Magnussen entered the Brakel scene. Born in Copenhagen in 1940, the Dane achieved fame when he followed in the footsteps of Arne Jacobsen at Stelton. Magnussen's jugs, butter dishes, side-forks, lanterns and cutlery ranges in stainless steel became a Danish trademark, his crisp formal vocabulary the symbol of what is often referred to as frosty Nordic design. His policy is to work on designs until their functioning can be taken as read.

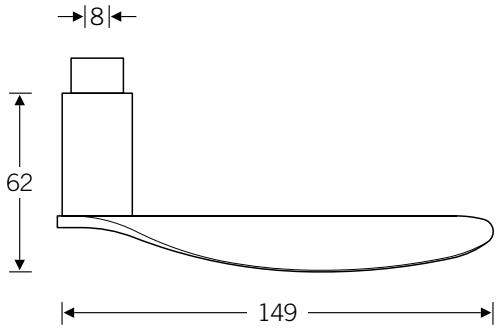
Our collaboration with Erik Magnussen began late in the summer of 1994 when Erik and his four-legged friend Kaktus stopped over at Brakel for the first time. Kaktus, a splendid wiry-haired terrier, was part of the design team from the start. Erik inspected our production, discussed the concept of the product family with us, and promised to mull over our scheme in sunny France and to turn up again at some point once the long Danish winter was over. We got together half a dozen times, either at ours or in greater Copenhagen, over the next twelve months.

Naturally enough, our remit was largely about taking Kaktus for long walks through the Weser valley woodlands and around the Royal Hunting Lodge, though we did also touch on the subject of design. After such a long and intensive period of incubation, it is hardly surprising that Erik Magnussen won the hearts of Brakel's door handle makers with his very first sketches. He set his initial ideas to paper with broad pencil strokes. We thought we could discern the wing-beat of Scandinavian gulls in these first drafts. Which is how the entire product family acquired its semiotic identity. The materials we were required to use by Erik Magnussen were stainless steel and black plastic, his favourites. He also had clear ideas concerning the production process. We were not to engage in any bending, welding or widening, we were simply to fold. Once again, we were being led into virgin engineering territory by a designer.

Lever handle

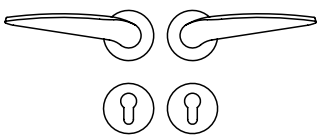
1127

Stainless steel



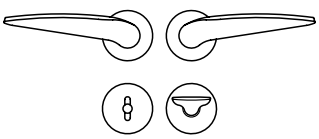
The styling of FSB 1127 from the design workshop of the Dane Erik Magnussen evokes the wingbeat of a gull. The slender contours of the folded stainless steel sheeting give the hand plenty to grip on, and quite as if by chance the thumb also slips nicely into place. This is an unassuming design offering its services as a hand tool for the opening and closing of doors.

Order proposal:



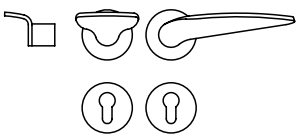
Internal door set

Lever handle	1127
Rose	1707
Escutcheon	1708



Bathroom furniture

Lever handle	1127
Rose	1707
WC set	1708 7054



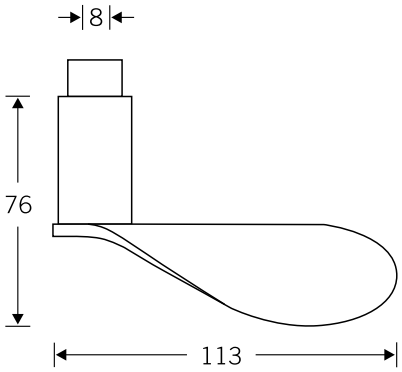
Entrance door set

Lever-female part	1127
Rose	1707
Escutcheon	1708
Door knob	2357 06

Lever handle

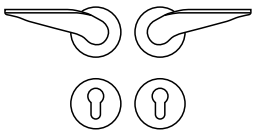
1128

Stainless steel



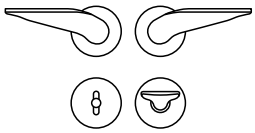
The 'large wing-beat' design of the first door handle was joined by a smaller version, FSB 1128, after Erik Magnussen's wife Jonna had argued that a more petite model would also be in order. The grip is shorter and fuller, though the term 'grip' scarcely does it justice; this is a tactile delight which will have hands caressing it longingly.

Order proposal:



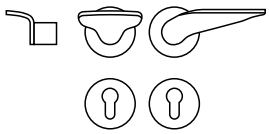
Internal door set

Lever handle	1128
Rose	1707
Escutcheon	1708



Bathroom furniture

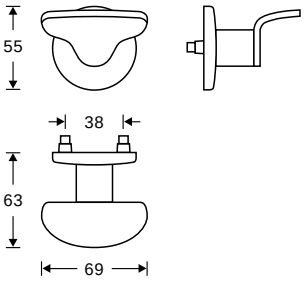
Lever handle	1128
Rose	1707
WC set	1708 7054



Entrance door set

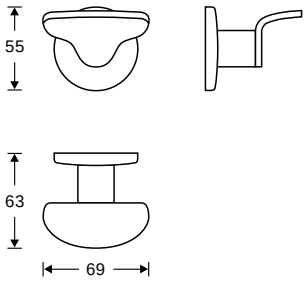
Lever-female part	1128
Rose	1707
Escutcheon	1708
Door knob	2357 06

Door knob
WC Roses



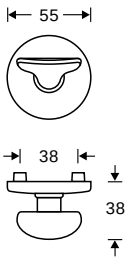
2357 06
Stainless steel

concealed through fixing
c:c screw holes 38 mm

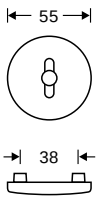


2357 05
Stainless steel

concealed face fixing

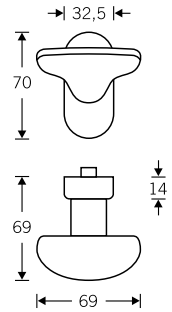


1708 7054
Stainless steel

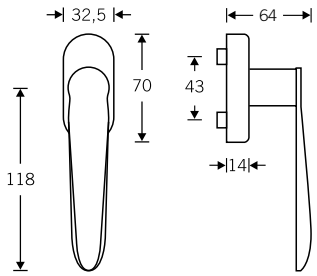


Erik Magnussen shows with this design that a knob need be neither round, cylindrical, square nor triangular. Instead, he again makes do with folded stainless steel strip. The WC thumbturn is a miniaturised version of the knob.

Window handles
Cabinet knob



3406



3458

Stainless steel

Window handles with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

RAL Gütezeichen Rastoliven

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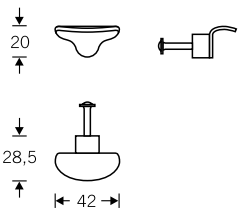


3627

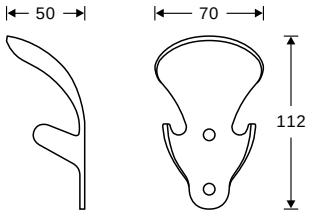
Stainless steel

The cabinet knob is a smaller version of the doorknob design.

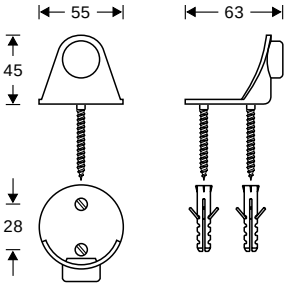
Screws M4 x 30 mm

Coat hook
Door stop
Door pull

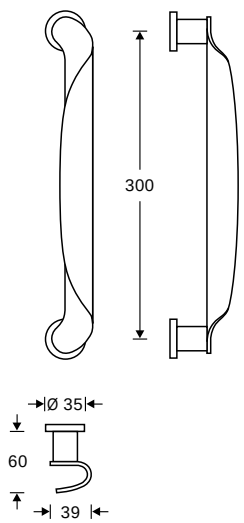
Erik Magnussen has taken the exterior styling of an eggshell and reproduced it in cutaway form as a coat hook. This marvellously uncluttered design is just crying out to have your hat, coat, jacket and scarf slung over it.



3647
Stainless steel



3887
Stainless steel



6647 37
Stainless steel

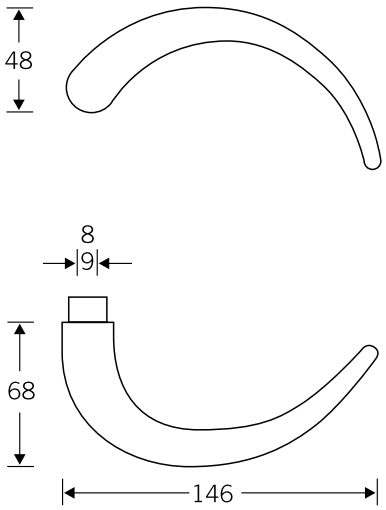
Handle Programme
Philippe Starck

Philippe Starck, the mega-star of the 1990s, has never contented himself with simply submitting plans for interior designs. From the outset he has also created furniture for them. A typical example is the famous chair for Café Costes, which has since outlived the site of its deployment. Fascinating industrial products followed: office articles, bottles, cutlery, luggage, knives, household gadgets, vases, carpets, toothbrushes. FSB was very keen indeed on asking this uncommonly productive and also extraordinarily multifaceted designer to try his hand at something as commonplace as a door handle. Philippe Starck did just that and gifted us some of his gritty French charm.

Lever handle

1191

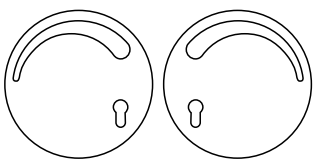
Aluminium natural colour anodised



Contemplating this lever design divorced from its backplate, one might be forgiven for thinking Monsieur Starck had gone raving mad. In their assembled state, though, these horn-shaped devices are as practical as anything one could wish for.The lever can be grasped at various points; thumb, forefinger, and palm nestle securely; the hand is given the necessary purchase.

This furniture represents an alternative to symmetrical designs incorporating circles, triangles, and rectangles. The set as a whole provides a visual contrast to the leaf of the door without seeking to rise above its station. Backplate satin silver, lever mirror-polish. Both in prime aluminium.

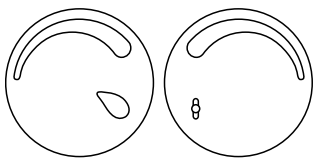
Order proposal:



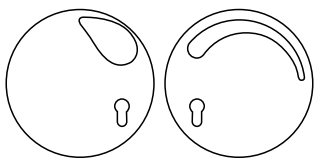
Internal door furniture

Standard fittings
1191 | 1491

Fire door fittings
acc. to German DIN standard
7691 16 r.h.
7691 19 l.h.

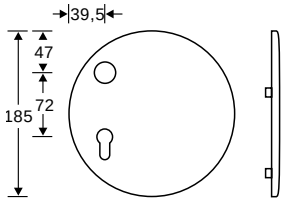


Bathroom furniture
1191 | 1491 4354 r.h.
1191 | 1491 5354 l.h.



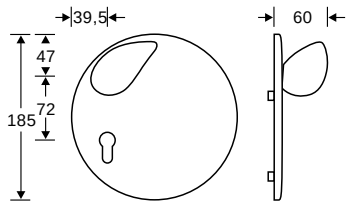
Entrance door furniture
1191 | 1491 | 1991 43 r.h.
1191 | 1491 | 1991 53 l.h.
7691 17 r.h.
7691 20 l.h.

Backplate
Knob backplate



1491 72 mm

Aluminium natural colour anodised

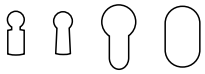


1991 72 mm

Aluminium natural colour anodised

In the case of the door knob, Philippe Starck reverted to the drop motif, a design concept of which he has made frequent and varied use. But his drop-shaped door knob does not descend earthwards but instead, in line with its function, gently curves upwards in unison with the backplate. It rests snugly in the hand and matches the handle design.

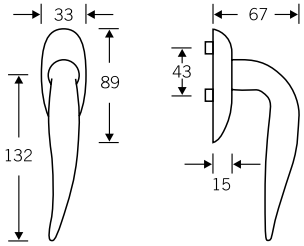
Keyholes



BB CH PZ OZ

Window handle
Cabinet knob

Philippe Starck was taken aback at first when we pointed out to him during our working discussions that individual doors are almost invariably accompanied by a plethora of windows and that, hence, designing a window handle to match that on the door was imperative if only to avoid clashes of style. He applied himself to this as to any other task. With rapid, masterful strokes, he drafted a window handle and, while he was at it, a matching rose on a sweeping Gothic S-shape.



3439

Aluminium natural colour anodised

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

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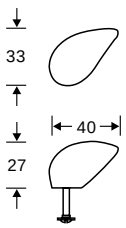
3



3632

04 r.h. I 05 l.h.
Aluminium natural colour anodised
Stainless steel

Illustration r.h.

Screws M4 x 30 mm

The cabinet knob draws on the design of the doorknob. It could well become a 'cult object', being the smallest Philippe Starck ever. The marketplace is now veritably awash with plagiarised versions.
Don't be taken in!

Handle Programme
Jasper Morrison

In May 1988, the Italian design journal "domus" published an article on the young English designer Jasper Morrison. A dozen of his works from 1985-88 were presented including a door handle. A rhetorical question posed in the piece was whether the creativity of this London-based designer would survive long enough for his designs to be mass-produced. The "domus" question has now been answered: Morrison's door handle design FSB 1166 was presented to the market in 1990 in stainless steel. A little later, we asked Jasper Morrison to design a second door handle for FSB. The issue of materials was soon resolved, since Jasper loves aluminium. He likes it most of all in its natural silvery-coloured form. Jasper Morrison emphasizes the aura of the utensil in his work, opting for chaste looks. No wonder, then, that he furnished us with a very unassuming product range.

Should you find yourself exclaiming 'I've seen that before' when you view products by Jasper Morrison, you will have grasped the English designer's philosophy. Morrison's wish is that anyone looking at or using his products should feel at once that the object is trustworthy. That, after all, is what design is about: fashioning usable objects.

Industrie
Forum
Design
Hannover

Auszeichnung für excellente Designlösungen

Die 10 Besten des Jahres

1990

Design Zentrum Essen

Designpreis des Landes Nordrhein-Westfalen

Hohe Designqualität

1991

Rat für Formgebung
Frankfurt

bundespreis produktdesign

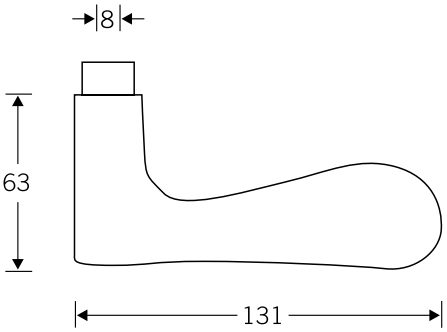
für hervorragende Produktgestaltung

1992

Lever handle

1144

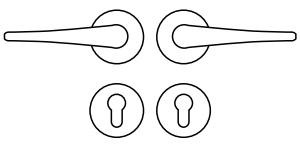
Aluminium natural colour anodised



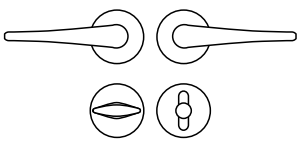
FSB 1144 is a lever handle styled to appeal to eye and hand in equal measure. The message the eye receives from Jasper Morrison's design is that this handle is a hand-operated device for opening doors.

Reassured, the hand reaches out. The thumb comes to rest; the index settles in its recess; the hand clenches to give a firm grip. All the good-grip criteria identified by Otl Aicher and ourselves have been met.

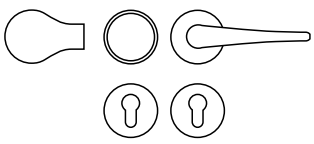
Order proposal:



Internal door furniture
1144 | 1731 | 1735
7644 13



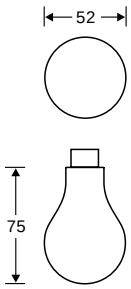
Bathroom furniture
1144 | 1731 | 1735 6054



Entrance door furniture
1144 | 1731 | 1735 | 2374 06
7644 14

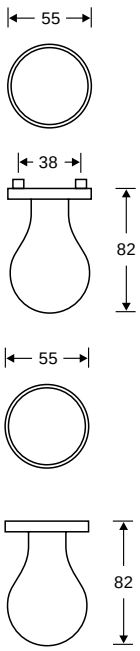
Standard fittings
Fire door fittings
acc. to German DIN standard

Knob handle
Door knob



0844 8 mm □

Aluminium natural colour anodised



2374 06

Aluminium natural colour anodised

concealed through fixing
c:c screw holes 38 mm

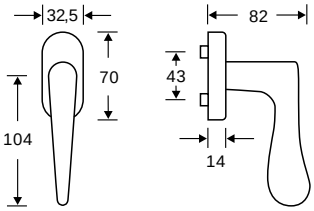
2374 05

Aluminium natural colour anodised

concealed face fixing

The FSB 0844 and FSB 2374 door knobs add a fresh dimension to design in this field. As Jasper Morrison was hatching them, he must have looked up at the ceiling in his design studio. Hanging there was a conventional light bulb. Jasper took this form so familiar to us all and transferred it to the door knob. The outcome is a worthy alternative to the more usual round or flattened disc styles. The fixed version gives the hand plenty of scope to grip and pull, while the rotating knob can be turned the requisite amount without unduly extending the hand. Their style, moreover, harmonises well with the FSB 1144 handle design.

Window handle
Lever handle
for framed doors



3444

Aluminium natural colour anodised

Window handle with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

RAL Gütezeichen Rastoliven

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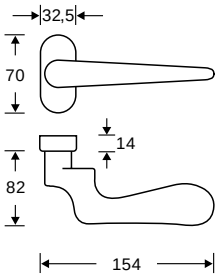
3

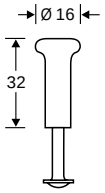


0642 21
0642 22 F

Aluminium natural colour anodised

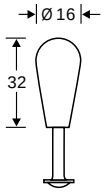
c:c screw holes 50 mm,
for countersunk screws M5

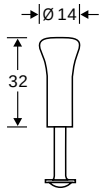
Cabinet Knobs



3641

Aluminium natural colour anodised
Stainless steel



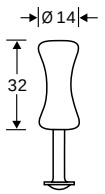


3642

Aluminium natural colour anodised
Stainless steel

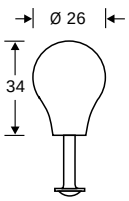
3643

Aluminium natural colour anodised
Stainless steel



3644

Aluminium natural colour anodised
Stainless steel

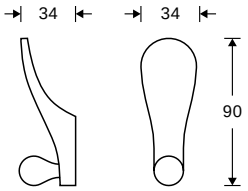


3654

Aluminium natural colour anodised
Stainless steel

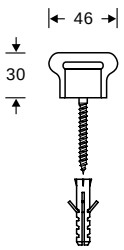
Jasper Morrison has designed a handful of unfussy cabinet knobs for FSB.
All cabinet knobs are supplied with M4 x 30 mm screws.

Coat hook
Door stop

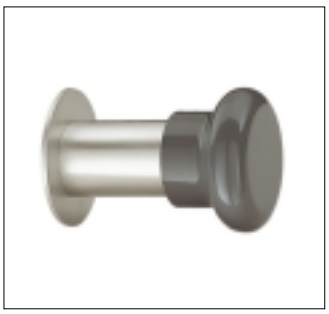


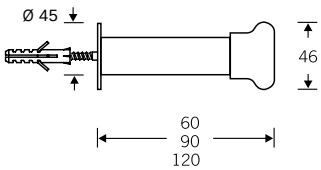
3650

Aluminium natural colour anodised



3896 00



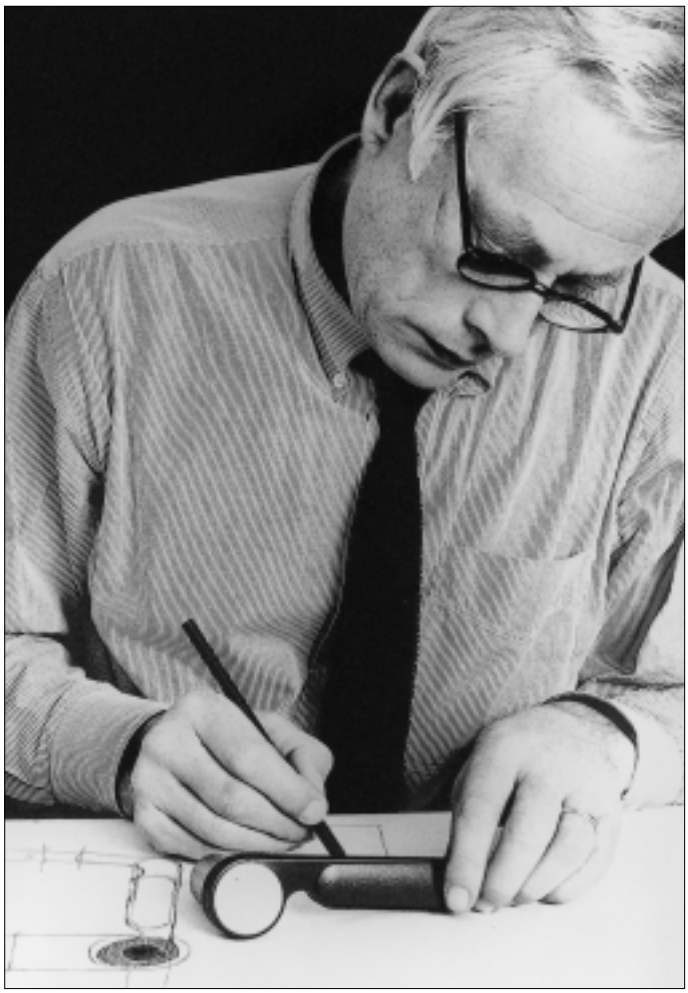


3896

Aluminium natural colour anodised

02 length 120 mm
03 length 90 mm
04 length 60 mm

Handle Programme
Dieter Rams



The FSB product range comprised 70 different designs. Not to mention all the other market offerings. Wasn't that enough? Hadn't the scope for novelty been exhausted? We wanted to know and asked Dieter Rams, probably the most noted German designer, to contemplate a new design for door handles. Rams accepted the challenge – and won.

The hardware series by Dieter Rams is formally engaging, technically innovative, suits doors and windows in all styles and finishes, and sports a simplicity that is surprisingly new, yet somehow familiar. It consciously bucks the trend evident in so much else on the market.

Design Zentrum Essen

Staatspreis des Landes Nordrhein-Westfalen

Design Innovationen

1989

Industrie Forum Design Hannover

Auszeichnung für excellente Designlösungen

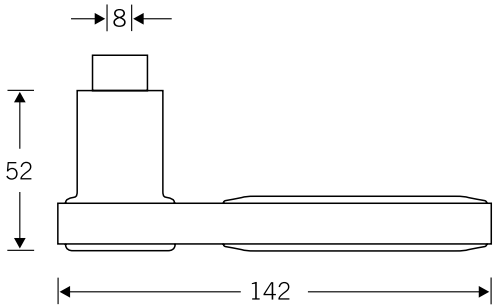
Die 10 Besten des Jahres

1990

Lever handle

1138

Aluminium grey
Thermoplastics black

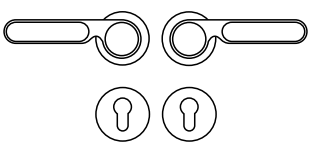


3

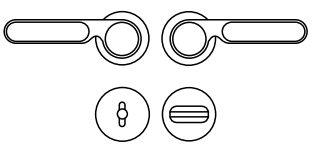
In his design work, Dieter Rams tends to prioritise simplicity, lightness, and the close-at-hand. FSB 1138 is a classic embodiment of his belief that form follows function.

FSB 1138 is endowed with a sturdy round aluminium neck that is effectively the lynchpin of the piece. The black grip section in thermoplastics features a clearly discernible index finger recess. The lateral heftiness of the grip components provides plenty to grasp hold of. All in all, this design meets the Good Grip criteria in exemplary fashion.

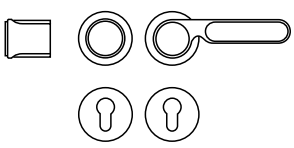
Order proposal:



Internal door furniture
1138 | 1740 | 1741
7638 13



Bathroom furniture
1138 | 1740 | 1741 0054



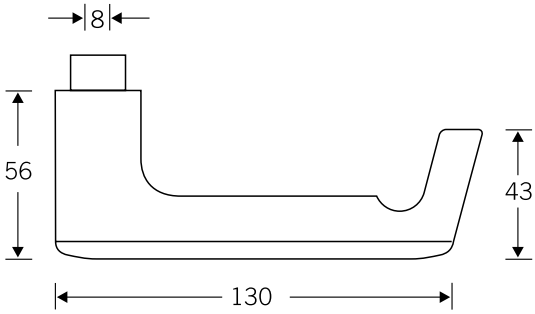
Entrance door furniture
1138 | 1740 | 1741 | 2376 06
7638 44 r.h.
7638 54 l.h.

Standard fittings
Fire door fittings
acc. to German DIN standard

Lever handle

1137

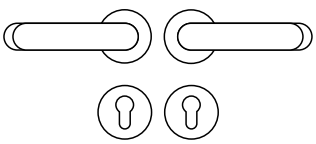
Aluminium grey
Thermoplastics black



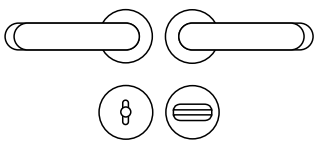
In FSB 1137, the working parts and the front section are in grey aluminium whereas the grip is in black thermoplastics. What really sets this unpretentious safety handle apart (a handle that won't slip up your sleeve!) is its 'little finger recess', which provides the hand with sufficient purchase despite extreme economies of space. Less tends to be more as designer Dieter Rams sees it.

Order proposal:

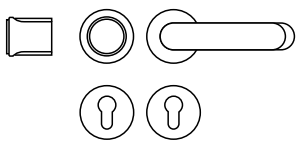
Standard fittings
Fire door fittings
acc. to German DIN standard



Internal door furniture
1137 | 1740 | 1741
7637 13

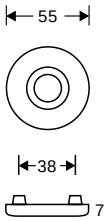


Bathroom furniture
1137 | 1740 | 1741 0054



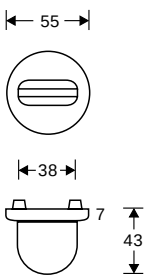
Entrance door furniture
1137 | 1740 | 1741 | 2376 06
7637 14

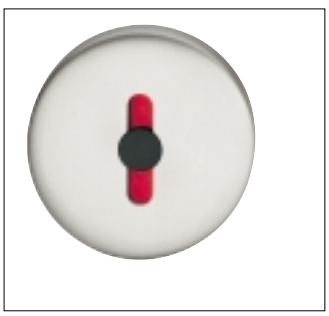
Roses



1740
Aluminium grey

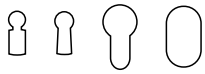
1741
Aluminium grey





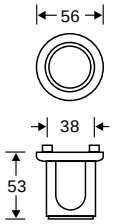
1741 0054
Aluminium grey
Thermoplastics black

Keyholes



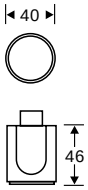
BB CH PZ OZ

Door knob
Door stop
Cabinet knob

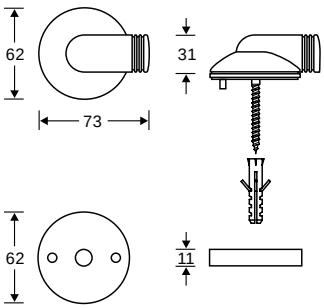


2376 06
Aluminium grey
Thermoplastics black

concealed through fixing
c:c screw holes 38 mm

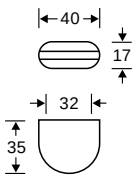


0838 8 mm □
Knob handle
Aluminium grey
Thermoplastics black



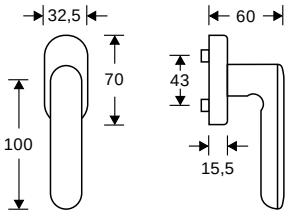
3891 00
Aluminium grey
Thermoplastics black

3891 10
Baseplate black

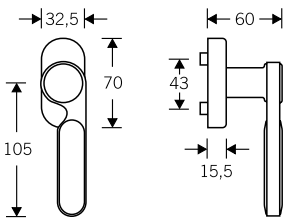


3631
Aluminium grey
Thermoplastics black

Window handles



3436



3438

48 r.h. I 58 l.h.

Illustration r.h.

Aluminium grey
Thermoplastics black

Window handles with
click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □
spindle projecting 30 mm

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