

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Quick pricing info for EU-wide Senior Suit® rentals and sales



A SD&C Senior Suit can be rented by any organization in the EU intending to sensitize for the needs of the elderly. The simulation suit will be delivered to any location in the EU and picked up from the same place after rental. Rental time is up to one week. The price is all inclusive, i.e. rental fee, transports, and transport insurance. Tell us when and where you want one, send us an email.

**Senior Suit®  
Alpha**



Rent: € 400 for max 1 week, all over Europe, freights both ways included

Sale: € 1.380,50 [see page 8](#)  
freight EU: € 45, worldwide: € 150

**Senior Suit®  
Beta**



Rent: € 500 for max 1 week, all over Europe, freights both ways included

Sale: € 2.190 [see page 9](#)  
freight EU: € 45, worldwide: € 150

**Senior Suit®  
Delta**



Rent: € 600 for max 1 week, all over Europe, freights both ways included

Sale: € 4.220 [see page 10 and 11](#)  
freight EU: € 45, worldwide: € 150

Worldwide free delivery to next international airport with the purchase of 5 Senior Suits or more.

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Contents

<b>EU-wide rental.....</b>	<b>1+3</b>
<b>Introduction to theoretical and practical Age Simulation .....</b>	<b>4</b>
<b>Accompanied Senior Suits .....</b>	<b>5</b>
<b>Usability workshop with Prof. Dr. Dr. Elena Averboukh .....</b>	<b>6</b>
<b>Sale: SD&amp;C Senior Suit ®Alpha 3 .....</b>	<b>7</b>
<b>Sale: SD&amp;C Senior Suit ® Beta 3.....</b>	<b>8</b>
<b>Sale: SD&amp;C Senior Suit ® Delta 2 ©.....</b>	<b>9</b>
Upgrade from Senior Suit ® Beta 2/3 auf Senior Suit ® Delta 2 © .....	11
Upgrade from Senior Suit ® Alpha 2/3 to Beta 3 .....	11
<b>Accessories .....</b>	<b>12</b>
5-factor, 2-level simulation glasses.....	12
Cataract simulation goggles .....	12
15 degrees optics .....	12
Drunkenness simulation goggles.....	13
Drug consume simulation goggles.....	13
6 eye diseases simulations.....	13
Simulated aged hearing.....	14
Simulated aged hearing and tinnitus .....	14
Headset with 8 different tinnitus sounds .....	14
Elbow brace.....	15
Knee brace .....	15
Hemiparesis simulation set.....	15
Parkinson tremor simulation .....	16
Cervical brace.....	16
2 Pairs of simulation gloves .....	16
<b>References, guarantee and risk free purchase .....</b>	<b>17</b>
<b>About SD&amp;C and the history of Age Simulation .....</b>	<b>18</b>
<b>General Terms and Conditions .....</b>	<b>19</b>
<b>Legal Notice .....</b>	<b>20</b>

## Fields of application

SD&C differentiates three fields of ageing simulation, which require different levels of sophistication: 1. public sensitization, 2. education and training, and 3. product design.

To sensitize the public for the current demographic change towards more senior citizens and for the accompanying problems of reduced seeing, hearing and movability, SD&C recommends model Alpha, a simulation suit that makes the problems clear to everybody instantaneously, nevertheless not traumatizing anyone.

For education and training of students of medicine, and also for personnel in touch with the elderly, the visual sense and the movement restrictions need to be simulated more exactly. Here we recommend age simulation Suit Beta with an ageing simulation optics covering all relevant visual factors over two steps of age and with specialized variable elbow and knee bandages.

Product design and engineering require the highest sophistication of ageing simulation, as here false decisions can easily cost much. Age Suits for consulting and the industry must allow younger designers and engineers a realistic evaluation of the visual areas, of reach, grip and force of the elderly intended to use a product. This field is where SD&C's Senior Suit Delta is setting the international standard, a suit protected by patent law. There is no other tool available to quickly explore the needs of elderly as the SD&C Senior Suit Delta.

Additional components for all Senior Suits can artificially induce diseases like Parkinson Tremor or Hemiparesis.

# SD&C Age Simulation Catalogue - effective from 01.01.2023



Hemiparesis-Set : € 50\*



Drunkeness Simulation : € 25\*



Drug Consume Simulation : € 25\*

## Hemiparesis-Set

The Hemiparesis-Set simulates a typical condition after a stroke, when one side of the body cannot be moved. One part allows to fix one elbow joint in a stiff position, one part allows to fix a knee joint in selectable stiff position.

## Parkinson-Simulation

This electric device allows to stimulate muscles e.g. on the lower arm with the typical frequencies of Parkinson' disease, sending a shiver into the handling of all things.

## Drunkeness Simulation Goggles

For the sensitization for the dangers of alcohol when driving, this drunkenness simulation goggle can be rented.

## 8 different Sounds of Tinnitus

Quite different from the sound of silence those suffering from Tinnitus disease steadily hear a sound in their ears. 8 of these sounds have been rebuilt and can be heard with this device.

## Macula Degeneration Goggle

People having a Macula Degeneration can only see a part of what normal eyes can see. Insurance companies put the limit for payments to 15° of sight along the visual axis. This is what this goggle is simulating.

## Drug Consume Simulation Goggle

For the additional sensitization for the dangers of drug consume when driving, this drug simulation goggles can be rented.

\* Prices are per rental together with an age simulation suit



Parkinson tremor simulation: € 50\*



8 sounds of tinnitus: € 25\*



Severe Macula Degeneration : € 50\*

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Introduction to Theoretical and Practical Age Simulation

A modern age simulation suit is as complex as a diving suit, and the process of simulation has different effects regarding bodily strength, the senses, and movability. The success of presenting, demonstrating or applying an age suit thus depends much on the knowledge of the presenting person. For organizations without any medical, human biology or ergonomic expertise, training sessions are offered. SD&C training sessions include:

- Training on how to work with the individual parts of the simulation suit, correctly putting it on and removing it
- Information on the normal ageing process and the changes that occur to the body that affect its performance
- Information on the method, effectiveness and limits of the simulation
- Information on how to set up an obstacle parcours
- Information on and how to psychologically care for the person wearing the simulation suit
- Information about physical and psychological dangers and how to avoid them
- Information on hygiene and caring for the suit

The training session can be held at the SD&C offices or at the customer's site. Training can also be combined with the first day of scheduled use.

### Prices:

Personal introduction (1/2 day)

€ 400 /day plus travel costs

Zoom- or MS Teams- Conference (1 hour)

€ 100



Components of the SD&C Senior Suit® Delta



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accompanied Senior Suits®

SD&C is pioneer of age simulation in the public and has organized age suit demonstrations for various locations in Europe and worldwide.

SD&C provides age simulation suits for special events and can arrange for a technical support person. The suits give those interested the opportunity to briefly experience what it is like to be old. The SD&C technical support person can explain the bodily changes that occur during the ageing process and how the suit simulates them. The psychological changes that take place as people age are also addressed.

For outdoor events and travel from Munich, SD&C can bring along a pavilion tent with all the equipment and components for an obstacle course. For indoor events, the age simulation presentation can be adapted to the conditions on site and an obstacle course can be set up after consulting with the customer.

An automated power point presentation on the ageing process can be used to support the age simulation suit presentation.

Model Senior Suit® Beta 3 will be used.

### Prices:

For each age simulation suit with one support person per day

€ 800 plus travel costs

Extra simulation suit without assistant and day

€ 400

Travel costs by car are charged with 0,40 € per km.



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Usability Workshop with Prof. Dr. Dr. Elena Averboukh

The workshop can be used to check products, systems and installation with respect to their usability and innovation, including the elderly. The workshop can especially contribute to a company's quality standards introducing the use of statistical six sigma techniques. A larger audience can be addressed, when the workshop begins with a lecture and the age simulation is presented on a stage allowing the audience to follow the experience. To allow all participants the experience of instant ageing, 15 min for the experience and 5 min for changing the simulation suit should be calculated. The lecture content and the age simulation parcours can be geared towards special quality and innovation topics. The presentation can be scheduled in German, English, or Russian. Other languages upon request. Prof. Dr. Averboukh is a well-known capacity in both the scientific and business world, having worked on quality, operational excellence and UX projects with industrial companies in Europe, Asia, and the USA. She is a certified Six Sigma Master Black Belt bei ASQ, Motorola University, Siemens Learning Campus, Shell Learning etc., and has been a lecturer for several universities worldwide. The workshop includes the use of two SD&C Senior Suit Delta.



### Potential example:

10:00 Start of the event  
10:30 Presentation  
11:30 Discussion on the topics addressed  
12:00 Lunch break  
13:00 Participants take turns to experience the ageing process in the suit  
and on the parcours.  
16:00 Closing discussion on the participants' experiences, details and ideas  
17:00 Open end

### Prices:

Per workshop day

€ 2,950 plus travel costs

For each additional simulation suit with SD&C person

€ 800 /day plus travel costs

Preliminary meeting on site concerning scheduling and preparations

€ 400/day plus travel costs

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Sale: SD&C Senior Suit® Alpha 3



**SD&C Senior Suit® Alpha: € 1.380,50**  
Delivery EU: € 45, worldwide: € 150

### Description

The SD&C Senior Suit® was developed to sensitize the public for the problems of ageing. The age suit simulates the following effects:

- High frequency hearing impairment
- Vision deterioration
- Change of color vision
- Limit of peripheral vision
- Limitation of head movement
- Reduction of muscular body strength
- Stiffness in the back
- Shortness of breath
- Shoulder stiffness
- Loss of strength in the arms
- Loss in elbow movability
- Deterioration in sensitivity of the fingertips
- Contracture of the wrist joints
- Stiffening in the knee joints
- Loss of strength in leg muscles

The simulation results in combined effects such as impaired coordination, less balance, less overall control, deteriorated grip and handling of objects, uncertainty and communication problems so that so that everyday tasks like counting money or operating a vending machine directly reveal the typical problems of getting older.

Several hundred companies, universities, hospitals and retirement homes, assisted-living centers, government facilities and schools all over Europe have used the age simulation suits from SD&C to educate people on the problems of the elderly.

### Delivery Content

- 1 Special simulation vest with 4 frontal and 5 dorsal pockets for fast change of simulation weights, integrated stiffening elements for shoulders and back, strip elements at both sides to optionally deteriorate breathing, easy to put on by frontal zipper, wide entry for big persons, military quality, machine washable
- 1 set of frontal and dorsal simulation weights
- 1 set of ear muffs to simulate high frequency hearing impairment
- 1 pair of goggles with simulation film to simulate 3 ageing effects
- 1 neck brace to simulate difficulty in moving one's head
- 1 set of white gloves to reduce tactile sensitivity
- 1 jumpsuit to protect clothing and improve hygiene
- 2 wrist weights to simulate reduced arm strength
- 2 ankle weights to simulate reduced leg strength
- 2 special elbow bandages with stiffing elements to restrict arm movement, variable for different degrees of ageing
- 2 special knee bandages with stiffing elements to restrict leg movement, variable for different degrees of ageing
- 2 wrist protectors as wrist contracture
- 1 instructions of use
- 1 Guarantee
- 1 trolley carrying case with combination lock

The overall is available in either blue, red or black color.



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Sale: SD&C Senior Suit® Beta 3

### Description

The SD&C Senior Suit® Beta is especially intended for education and training. The age suit simulates the following effects:

- High frequency hearing impairment
- Special optics simulating 5 aging factors
- Loss of visual acuity over 20 and 40 years of age
- Change of color vision
- Limited peripheral vision
- Slight macular degeneration
- Greater visual need for light
- Limitation of head movement
- Reduction of muscular body strength
- Stiffness in the back
- Shortness of breath
- Loss of strength in the arms
- Reduced elbow movability
- Deterioration in sensitivity of the fingertips
- Contracture of wrist joints
- Reduced knee joints movability
- Loss of strength in leg muscles

The simulation results in combined effects such as impaired coordination, less balance, less overall control, deteriorated grip and handling of objects, uncertainty and communication problems, so that so that everyday tasks like counting money or operating a vending machine directly reveal the typical problems of getting older.

### Delivery Content

- 1 Special simulation vest with 4 frontal and 5 dorsal pockets for fast change of simulation weights, integrated stiffening elements for shoulders and back, strip elements at both sides to optionally deteriorate breathing, easy to put on by frontal zipper, wide entry for big persons, military quality, machine washable
- 1 set of frontal and dorsal simulation weights
- 1 set of ear muffs to simulate high frequency hearing impairment including an electronic tinnitus sound with adjustable loudness
- 1 special age simulation optics for 5 effects with fold-up visor to simulate either 20 or 40 years of ageing, limited peripheral vision, deterioration of color vision, greater need for light, and a light macular degeneration (when visor is down)
- 1 transportation bag for simulation optics and ear muffs
- 1 neck brace to simulate difficulty in moving one's head
- 1 set of white gloves to reduce tactile sensitivity
- 1 jumpsuit to protect clothing and improve hygiene
- 2 wrist weights to simulate reduced arm strength
- 2 ankle weights to simulate reduced leg strength
- 2 special elbow bandages with stiffing elements to restrict arm movement, variable for different degrees of ageing
- 2 special knee bandages with stiffing elements to restrict leg movement, variable for different degrees of ageing
- 2 wrist protectors as wrist contracture
- 1 instructions of use
- 1 guarantee
- 1 trolley carrying case with combination lock



**SD&C Senior Suit Beta: € 2.190,00**  
Delivery EU: € 45, worldwide: € 150



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Sale: SD&C Senior Suit® Delta 3 ©

### Description

The Senior Suit Delta is the top model from SD&C and sets the standards when compared to other age simulators around the world. The Senior Suit Delta is especially designed for use in industrial product and workplace design as well as for medical training. Through a great deal of experience and many applications, the Senior Suit Delta has evolved from a simulation set into an integrated simulation suit with many advantages:

- The simulated dimensions are selected with their ergonomic relevance and the ability to be simulated, and the components take into account functional ageing based on the most recent scientific findings (ISO 20282).
- The suit does not simulate diseases, rather the healthy process of ageing. This enables personal weaknesses to be located and the possibility to generalize the results from wearing the suit.
- A special two-level pair of simulation optics simulates the 5 most important effects of ageing on vision, with two levels, each over 20 years: reduced vision sharpness, reduced brightness, peripheral vision limits, color vision deterioration, and slight macular degeneration.
- The ear muffs electronically simulate tinnitus with white noise, whose loudness can be changed or switched off.
- The intensity of the elbow bandages can also be adjusted. The weight sleeves have removable cartridges and their three attachments ensure a firm hold.
- Its special adjustment procedure allows the suit to be worn by anyone of almost any size (150-200 cm). A special additional adjustment also allows big people to take part in the experience.
- The suit protects the test person and his/her clothing: It is robust and takes only 5 minutes to put on and take off.
- The suit as a special attachment system for accessories and measurement devices.
- Hygiene is also an issue taken care of. The simulation sleeves are not placed directly on the body. After use, they can be removed from the suit and the overalls part of the suit can be machine washed.

Content of delivery see next page

Pictures showing [dress up procedure](#) and [views from 8 sides](#)



# SD&C Age Simulation Catalogue - effective from 01.01.2023



## Sale: SD&C Senior Suit® Delta 3 ©

### Delivery Content

- I Suit special developed for age simulation and protected by patent law. Universally usable for body sizes between 150-200 cm of height with snap button adjustment system. Easy and fast to put on by a frontal zipper and double sided zippers on sleeves and legs, wide entry for big persons. Side lines of snap buttons allowing components and measurement equipment to be plugged against, thus exactly fixing their position. 4 integrated frontal and 5 dorsal pockets for fast change of simulation weights. Integrated stiffening elements for shoulders and back, strip elements at both sides to optionally deteriorate breathing, on shoulder openings for electric cables, air ventilation openings in the pit area. The suit is of military quality and machine washable.
- I set of frontal and dorsal simulation weights
- I set of ear muffs simulating hearing impairment of high frequencies including an electronic tinnitus sound with adjustable loudness
- I special age simulation optics for 5 ageing effects with fold-up visor to simulate either 20 or 40 years of ageing, limited peripheral vision, deterioration of color vision, greater need for light, and a light macular degeneration (when visor is down)
- I transportation bag for simulation optics and ear muffs
- I neck brace to simulate difficulty in moving one's head
- 2 pairs of white gloves to reduce tactile sensitivity
- I pair of wrist weights bandages to simulate reduced arm strength with exchangeable and adjustable pockets with 10 small weight cartridges, trifold fixation by snap button system, Velcro and snap fasteners
- I pair of ankle weights bandages to simulate reduced leg strength with exchangeable and adjustable pockets with 12 small weight cartridges, trifold fixation by snap button system, Velcro and snap fasteners
- I pair of special age simulation elbow bandages with stiffing elements to restrict arm movement, variable for different degrees of ageing, snap button fixation system
- I pair of special age simulation knee bandages with stiffing elements to restrict leg movement, variable for different degrees of ageing, snap button fixation system
- I pair of wrist contractures
- I instructions of use
- I guarantee
- I trolley carrying case with combination lock
- I optional introduction to age simulation at SD&C location

SD&C Senior Suit® Delta 2 ©: € 4.220,00      Delivery EU: € 45, worldwide: € 150

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Upgrades



### Upgrade from Senior Suit ® Alpha 2 to Beta 2

Five factor simulation glasses with two adjustment levels;  
1 headset with 8 different tinnitus sounds, AA batteries included, 1 neck brace to simulate difficulty in moving one's head, 2 pairs of simulation gloves.

€ 900 Delivery EU: € 45, worldwide: € 150

### Upgrade from Senior Suit ® Beta 2 auf Senior Suit ® Delta 2 ®

1 pair of adjustable overalls for body sizes between 150 and 200 cm with integrated attachments for simulation accessories and weight pockets for 9 weights; including associated weights, 1 pair of wrist weights bandages to simulate reduced arm strength with exchangeable and adjustable pockets with 10 small weight cartridges, trifold fixation by snap button system, Velcro and snap fasteners, 1 pair of ankle weights bandages to simulate reduced leg strength with exchangeable and adjustable pockets with 12 small weight cartridges, trifold fixation by snap button system, Velcro and snap fasteners, 2 pairs of simulation gloves; instructions for age suit 2011.

€ 1,800 Delivery EU: € 45, worldwide: € 150

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accessories I

This set of accessories simulates illnesses, impairments and other conditions that occur throughout the ageing process. The components are available as a supplement for the SD&C age simulation suit.



### 5-factor, 2-level age simulation optics

The special optics with a fold-up visor simulate a vision loss of 40 years throughout 2 levels each of 20 years. The simulation includes a light macula degeneration (AMD), brightness loss, tunnel vision (retinal pigmentosa) and a color vision change. The optics are already included with the SD&C Senior Suit Beta and Delta.

#### Included in the delivery:

1 pair of simulation glasses with bag

#### Price and conditions:

€ 495



### "Cataract" simulation goggle

The cataract is simulated using a special film that is built into the goggles and that makes everything look cloudy. The simulation glasses also simulate a limited peripheral vision and a color change into the red. These classic goggles are included with the Senior Suit Alpha.

#### Included in the delivery:

1 simulation goggle with simulation film and storage bag

#### Price and conditions:

€ 145



### 15 degrees optics

Human peripheral vision normally covers over 180°. The above optics show what it means to have the vision limited to 15° only, as in some countries only then an insurance will accept a limitation of vision. Flapping down the visor adds normal aged vision.

#### Included in the delivery:

1 pair of simulation glasses with bag

#### Price and conditions:

595 € zzgl MwSt



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accessories II

This set of accessories simulates illnesses, impairments and other conditions that occur throughout the ageing process. The components are available as a supplement for the SD&C age simulation suit.



### Drunkenness simulation goggles

The drunkenness simulation goggles simulate the vision when having a strong alcohol level. In comparison to the ageing optics, the view is not sharp but rather blurred. The results are difficulties in balance and in the estimation of distances.

#### Included in the delivery:

1 simulation goggles with bag

#### Price and conditions:

€ 150



### Drug consume simulation goggles

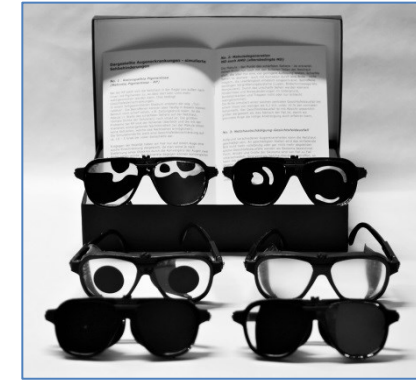
The drug consume simulation goggles simulate vision like after the consume of LSD or Ecstasy. The view appears kaleidoscopic colorful and blurred. The results are difficulties in the estimation of distances and with the coordination of reach and grip.

#### Included in the delivery:

1 simulation goggles with bag

#### Price and conditions:

€ 150



### 6 eye diseases simulations

The box includes 6 goggles simulating eye diseases common in old age: 1) Retinitis pigmentosa, 2) old age macular degeneration, 3) retinopathy, 4) retinal detachment, 5) optic nerve atrophy 6) cataract.

#### Included in the delivery:

6 goggles

1 box

#### Price and conditions:

€ 220

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accessories III

A pair of simulation gloves size 10 is included with each SD&C Senior Suit, with the SD&C Senior Suit Delta also one of size 9. The goggles depicted here allow the sensitization towards more traffic safety aside from the simulation of ageing.



### Simulating aged hearing and tinnitus

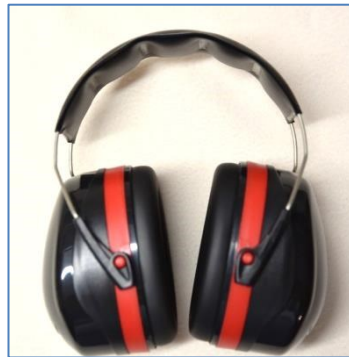
The ear pieces electronically simulate bilateral tinnitus with white noise. Its volume can be adjusted or switched off. When the tinnitus feature is switched off, the ear pieces simulate high-frequency hearing impairment..

#### Included in the delivery:

1 set of ear pieces with integrated tinnitus noise, volume adjustment button, batteries and bag.

#### Price and conditions:

€ 345



### Ear pieces simulating aged hearing

The ear pieces limit especially the hearing of the higher frequencies, as these cannot be heard by many elderly persons. Over all frequencies the medium loss is 31 db and it reaches 39,3 db at 8000 Hz.

#### Included in the delivery:

1 set of ear pieces

#### Price and conditions:

€ 40



### Headset with 8 different tinnitus sounds

The device simulates eight different types of tinnitus: Any of the different types of tinnitus can be chosen and the volume adjusted. A linear simulation of hearing loss can be simulated via the white noise type.

#### Included in the delivery:

1 set of ear pieces with eight tinnitus sounds, volume adjustment button, batteries and bag.

#### Price and conditions:

€ 110

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accessories IV

These accessories help to simulate movability limitations.



### Elbow brace

A nerve dysfunction or the need to fixate an elbow due to an acquired epicondylitis may result in total immobility of the elbow joint, severely reducing movability. To simulate this case, this elbow brace can be used. The bandage can be easily wrapped around the arm.

#### Included in the delivery:

1 elbow bandage

#### Price and conditions:

150 €



### Knee brace

An accident may require knee immobility, and for the simulation of the resulting movement limitations this brace can be used, working with metal elements on both sides. A mechanical hinge allows the setting of angles between 0° and 90°.

#### Included in the delivery:

1 knee bandage

#### Price and conditions:

250 €



### Hemiparesis simulation set

Knee and elbow braces together allow the simulation of hemiparesis, i.e. half side paralysis as after a stroke. The picture shows the opened elbow stiffening bandage and below the knee stiffening bandage with opened mechanical hinge.

#### Included in the delivery:

1 elbow bandage

1 knee bandage

#### Price and conditions:

€ 390

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Accessories V

This set of accessories simulates illnesses, impairments and other conditions that occur throughout the ageing process. The components are available as a supplement for the SD&C age simulation suit.



### Parkinson tremor simulation

Using a special program, the device simulates the tremor experienced by people with Parkinson's disease. By placing electrodes on the body, the underarm muscles can be stimulated using a weak current which then simulates Parkinson tremors. The intensity is adjustable. The simulation can be performed on both underarms at the same time.

#### Included in the delivery:

1 control device, 20 l bag, electrodes, cables and batteries.

#### Price and conditions:

€ 175

Glove: € 20



### Cervical brace

The cervical brace limits the movability of the head. The brace is hand washable, and normally is used without tricot. On request, there are different sizes available.

The cervical brace can be used with an additional tricot. The 4m long piece allows for 8 bandages.

#### Included in the delivery:

1 cervical bandage  
Optional: tricot, 4m

#### Price and conditions:

€ 45

Tricot: € 20



### 2 Pairs of simulation gloves

The white cotton gloves simulate the reduced tactile behavior when the aged finger tips have less sensitivity. The gloves have a button on the inside and are machine washable.

#### Included in the delivery:

1 pair size 9  
1 pair size 10

#### Price and conditions:

€ 40

Other sizes are available on request.



# SD&C Age Simulation Catalogue - effective from 01.01.2023

## References

Several hundred companies, hospitals, assisted-living homes and retirement centres, government organisations, schools and universities have ordered an SD&C age simulation suit, e.g. :

Akustika Schweiz, Airbus Industries, AL-KO Österreich, Alterszentrum im Wisli Schweiz, APTAR, Arbeiter-Samariter-Bund Wien, Arbeiterwohlfahrt AWO, Arena Melk Österreich, AOK, ARGE Nürnberg, AUDI AG, Augustinum Roth, AZW Innsbruck, Barmer GEK, Basler Versicherungs AG, Bauhaus Luftfahrt, Bayerisches Rotes Kreuz, Berufsfachschule Nürnberg, BBS Biberach, BBS Nordhorn u.a. BBS mehr, Beiersdorf, , Berlin Chemie AG, Bildungswerk der Wirtschaft, Birkhäuser Verlag, BMW AG, bpa, Braun AG, Bernafon AG Schweiz, Börsenverein des Deutschen Buchhandels, Bundeskanzlerinitiative D21, Bundesministerium der Familie, Caritas, DRK, Eriksholm Research Center Dänemark, Essilor France Paris, Fachhochschule Nordwestschweiz, Fraport AG, GAMBRO, Gesundheitsamt Görlitz, GEWOFAG München, Handwerkskammer Stuttgart, Helios-Kliniken, Hessisches Ministerium für Soziales, Hilfswerk Österreich, Hochschule der Medien Stuttgart, Landesinstitut für Arbeitsgestaltung NRW in Düsseldorf, Landesamt für Umwelt Rheinland-Pfalz, Malteser Hilfsdienst, Ludwigsburger Verkehrslinien, Medical Valley, Neuroth AG Österreich, Nordenham Touristik und Marketing, Paritätischer Wohlfahrtsverband, Pflegezentrum Wittikofen Schweiz, Provinzial Versicherung, Schäfer KG, Seniocare Schweiz, RECARO, Ritter-Sport, SANKYO, SCANIA Schweden, Senioreneinrichtung Würzburg, Siemens AG, R+V-Versicherungen, Sparkassen, Tiroler Zukunftsstiftung, TOTAL Bitumen Deutschland, TÜV Nord, Unfallkasse NRW, TU München, Uni Aachen, Uni Augsburg, Uni Bern Schweiz, Uni Düsseldorf, Uni Karlsruhe, Uni Kiel, Uni Kassel, Uni Stuttgart, Uni Wien Österreich, Volksbanken, VOLKSWAGEN AG, Wincor-Nixdorf, Swiss Re Zürich, London und New York, sowie über 100 weitere Firmen, Universitäten, Krankenhäuser und Organisationen in Deutschland, Europa und weltweit.

## Guarantee and risk-free test purchase

SD&C guarantees impeccable quality. The unused simulation suit with unbroken seals may be returned if you are not completely happy with it at delivery, no reasons necessary. We guarantee three years for all electronic devices and textile parts (except batteries, electrodes, and gloves) and will replace broken components including free replacement delivery worldwide. For the long life of our Senior Suits, a repair and spare parts service is available thereafter. If you want to try out the suit, SD&C will be happy to organise a test purchase, which means that a purchase can be changed to a rental or a rental can be changed to a purchase.

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## About SD&C and the History of Age Simulation

The first simulations on ageing took place around 1970 as "instant aging" and consisted of rubbing Vaseline on a pair of glasses, applying weights to the feet and rubber bands between the foot joints. This is how young medical students formed a good picture of the possible suffering experienced by their geriatric patients.

Then a new idea came along. The founder of SD&C, Dr. Roland Schoeffel, worked for Siemens between 1992 and 2002 and his job was to research, by means of usability testing, the psychomotor performance limits of the elderly in order to develop user interfaces that could be operated just as easily by young and old alike. A suit to help researchers reproduce functional deterioration as one grows older and that could save on expensive tests would have been useful in this kind of work. In 1999, he therefore expanded on the idea of simply simulating geriatric illnesses into precisely simulating the ageing process from an ergonomics perspective. As a result, he sponsored a bio-mechanic dissertation in which the components of a first age simulation suit were scientifically validated.

Dr. Schoeffel has published papers and given many lectures worldwide on his experience and findings related to product design for the elderly. He has filed several patents on the topic and he has written guidelines on product design for the elderly. Between 2000 and 2005, his guidelines were used as the basis for an ISO standard, which is nowadays the uniform standard worldwide for easy to operate devices for the elderly. The demand for "ease of operation" for seniors has now expanded to "freedom from barriers" for blind people and people in wheelchairs. SD&C further developed the guidelines in the standard and created checklists with over 200 points which are now used as the basis for SD&C "Suitable for Senior" certification.

In 2003, SD&C began to present age simulation suits to the public and at companies to sensitise people to the special problems of the elderly and to help companies design products suitable for the elderly to use. The experiences gained from the suit demonstrations were applied to enhancing the suits over the years. Currently, SD&C is involved in getting legislators to adapt laws and regulations for true age-based equality, because there are major deficits in this area.

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## General Terms and Conditions

### 1. Prices

Unless otherwise indicated, all prices stated are the net price per unit not including VAT. VAT will not be charged on deliveries within Europe, if a EUID can be presented. Worldwide customers are responsible for their country's import customs expenses and all local taxes. Should prices differ in currencies, Euro is the correct one.

### 2. Delivery

Sale deliveries of age suits within Germany are free of charge. For accessories and when shipping to other countries, shipping costs are charged.

### 3. Transport route

SD&C insures deliveries along the transport route. If goods arrive damaged, they can be sent back. However, SD&C is not liable for damages as a result of a late shipment.

### 4. Changes

SD&C reserves the right to make product changes without prior notice. Should SD&C be unable to deliver certain individual components, we reserve the right to deliver a spare part item of the same value or we may turn down the order.

### 5. Use of the goods and liability

The goods are intended for commercial and institutional customers. When placing an order, the customer thus confirms that the goods will be used for commercial or institutional use. The user is responsible for using the goods properly. Commercial rental of the goods are prohibited, while lending within a company without compensation is free. SD&C does not assume responsibility for any damage caused by the use of the suit.

### 6. Payment conditions / retention of title

SD&C requests complete or partial payment prior to delivery. All goods remain the property of SD&C until completely paid. Invoices are immediately payable without deduction. In case of deviating agreements, the payment agreement printed on the invoice is valid. If there is a delay in payment, we may charge a late fee of 4% above the currently valid bank rate from the Deutsche Bundesbank.

### 7. Testing, return and right to exchange

An age suit that is still sealed and was not used can be returned within 14 days and payments will be refunded after the age suit has returned. A suit with a similar design can be rented for a test run. The costs of the rental are then credited on the purchase price. Except from return are multiple orders and specialized suits along with all components that have been especially altered or procured for a customer. Returns are only accepted in sufficient condition for resale.

### 8. Cancellation

If a rental is cancelled one month or shorter before the agreed date, a cancellation fee of 50% will apply. If a rental is cancelled one week or shorter before the agreed date, only the costs of freight can be reimbursed.

### 9. Court of jurisdiction

Court of jurisdiction is Ingolstadt in Bavaria, Germany

### 10. Effectiveness

The terms and conditions (T&Cs) of business shall become effective once an order is placed. Should one or more conditions be invalid, this shall not affect the overall validity. We cannot accept deviating conditions from the customer, even if we do not expressly object to them. Incidentally, the regulations from the Commercial Code and the Civil Code shall apply in their respective versions for all terms and conditions of business not covered in the T&Cs. If in doubt of the translation, the German language version is valid.

# SD&C Age Simulation Catalogue - effective from 01.01.2023

## Legal Notice

### **SD&C GmbH**

Swidmutstr. 5  
D-85301 Schweitenkirchen near München, Germany

Tel. +49-8444-915554  
Fax +49-8444-915556

[www.senior-suit.com](http://www.senior-suit.com)

E-mail: [info@sdxc.de](mailto:info@sdxc.de)

HRB 91240 Court of Jurisdiction Ingolstadt  
VAT: DE226878772  
CEO: M.Sc. Rene C. Schoeffel