

navailles



CHAIRS WELLTHOUGHTOUT

CHAIRS WELL THOUGHT OUT...



We trust that art purists will forgive our creative adaptation of Rodin's 'Thinker', intended to mark the resurrection of this slogan, invented a decade ago but more relevant than ever.

Consider the message conveyed by Rodin. The statue's muscular appearance shows outward physical strength, set against the greater force of inner power.

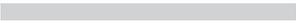
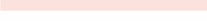
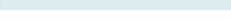
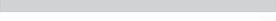
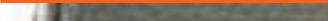
Now let us transpose this analysis to Navailles seats. Behind their technical strengths, robust materials and intricate manufacturing processes, we discover the brainchild of an entire team: Navailles's inner force.



Looking closer, these seats really are well thought out... First and foremost, well thought out for patients, who find them comfortable, safe and welcoming. This in turn makes life easier for healthcare staff, who also find the performance of our products convincing. We work closely with them, always present in the field and available for training or to demonstrate our products.

This catalogue sets out our range of medicalised seats, and also presents our company, Navailles. The story of the company dates back over 40 years. When I took over from the original family owners in November 2007, I discovered an efficient, motivated team of men and women, a range of high technology products, a renowned brand name and a host of satisfied customers. With this rich heritage and strong values, we are working confidently towards a highly promising future...

C. J. Richard

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COMBINING TRADITION AND MODERNITY, THE GROUP IS A VEHICLE FOR CHANGE YET KEEPS EACH STRUCTURE ON THE SAME TRACK. IT AIMS TO RETAIN THE STRENGTHS OF ITS COMPANIES, EACH OF WHICH IS WELL KNOWN IN ITS MARKET, AND ADD FRESH IMPETUS WITH THE AID OF THE TEAMS IN PLACE.

The group's fundamental values, shared by all, are at the heart of the teams' day-to-day activities:

Team spirit: Individual ambitions are aligned with collective goals, putting the success of the HMD Group first.

Quality: Quality is a consideration in all activities, from design through to shipping. It is also at the core of service rendered to customers.

Thoroughness: Beyond the thorough organisational principles required to attain ISO certifications, the thorough approach by all members of staff is fundamental to the Group and its success.

Innovation: As well as innovative technologies, the Group implements commercial, managerial and organisational innovations to create a powerful dynamic driving force.

Environment: Sustainable development is a central tenet of the group's identity (sorting and recycling, reduced VOC emissions, NF Environment certification of products, and so on).

BECOME
A GROUP
LEADER
IN THE
HEALTHCARE
FURNITURE
WORLD

FACTS AND FIGURES**NAVAILLES****DATE ESTABLISHED:**

23 March 1966

WORKFORCE:

110 staff

2007 TURNOVER:

€14,500,000

2008 TURNOVER:

€15,000,000

2009 TARGET:

€16,000,000

FACTORY FLOOR AREA:

14,000 m²

ANNUAL PRODUCTION CAPACITY:

200,000 seats

CREATE,
INNOVATE,
IMPROVE!





This is the leitmotif of Navailles' in-house design office. While we take a highly technical, ergonomic approach to our range of products, we also pay particular attention to visual aspects of seat design. New products and technical enhancements to our range of products are always fully in tune with the market's expectations.

Our design office also guarantees that our products fully comply with all applicable standards.

We focus our efforts on defining products that are totally suited to medical environments, in order to meet the needs of healthcare staff and ensure patient comfort.

Product design and analysis takes into account the specific aspects of healthcare environments, from patient wards to treatment rooms, as well as full compliance with medical device regulations. Our ergonomic, multi-role seats perfectly respect patient positions and morphology.

We have also chosen to qualify our products under the NF Santé standard, a guarantee of quality in terms of both design and manufacturing.

Last but not least, we listen to our customers and the users of our products to ensure optimal service that meets their individual day-to-day concerns and difficulties.

QUALITY & ENVIRONMENT

Buoyed by its dynamic leadership, Navailles believes in its management system. All company activities are broken down into processes with targeted indicators used by the directors to oversee the business. The documentation system contains written procedures for all management, production and support processes.

An active steering committee ensures that actions on processes proceed smoothly and takes part in strategic decisions to guarantee the company's expansion and sustainability.

Going beyond mandatory standards, Navailles incorporates eco-design and recycling in all its new products.

The company continually strives for the best, combining Quality, Safety, Environment and Corporate Social Responsibility aspects, with the aim of leading the market.

Requirements of customers and interested parties



Marketing



Commercial



Purchasing



Design



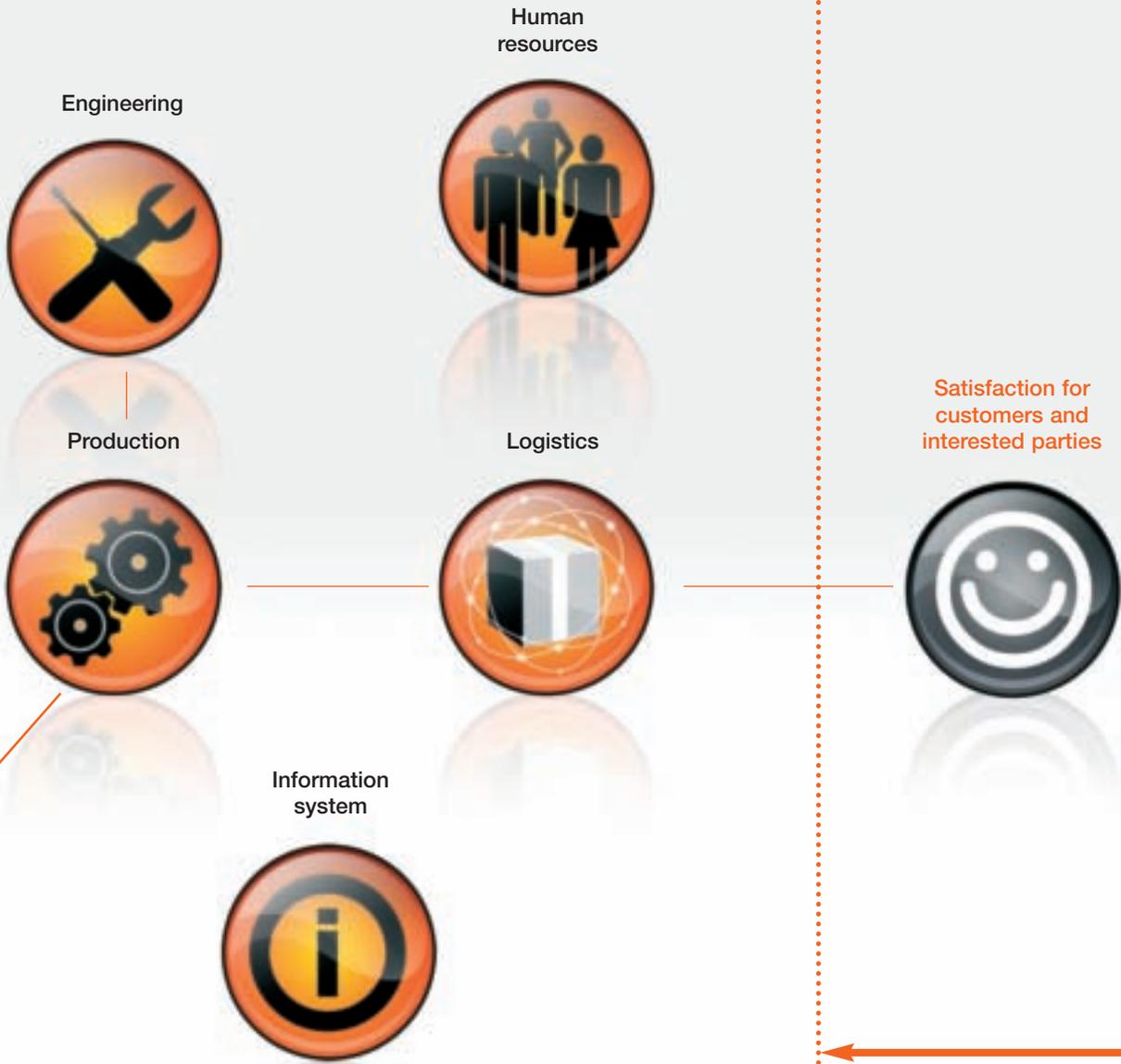
Finance



Sales



In an ISO world



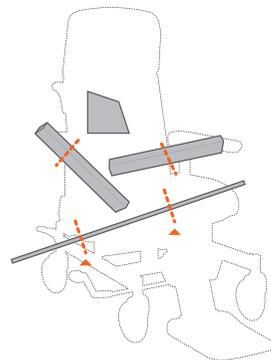
INCORPORATING ENVIRONMENTAL CRITERIA

ISO 14001 CERTIFICATION (MARCH 2009)

- Water
- Air
- Waste
- Chemical substances
- Energy

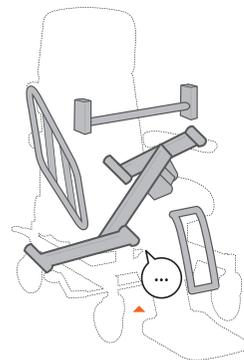
NAVAILLES WORKSHOPS UNRIVALLED KNOW-HOW

Navailles has become a key name in office and healthcare furniture. It has successfully developed integrated services for a fully autonomous production environment. To illustrate this process and take a closer look at our workshops, let us look at how a P832 medicalised seat is produced.



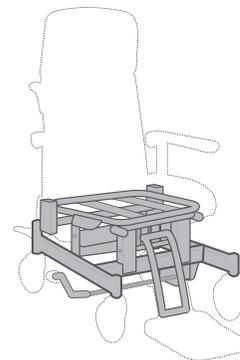
Tube cutting

We handle several tonnes of tubes, iron plate, sheet steel, and other materials each month.



Tube transformation

The tubes are formed on numerically controlled variable-radius bending machines. Notching is performed on presses operating at 20 to 120 tonnes.



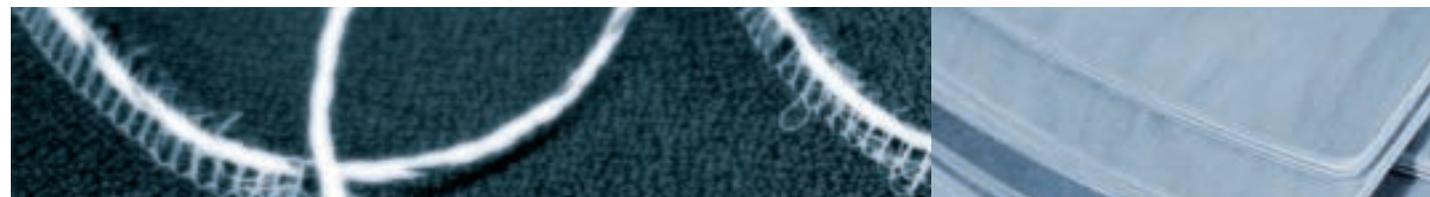
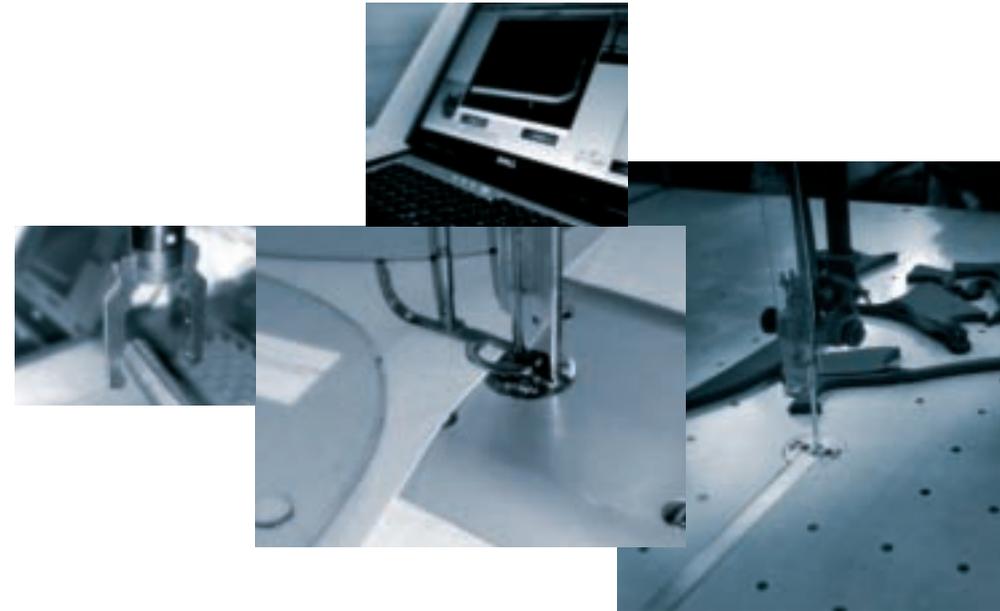
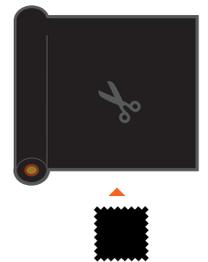
Welding

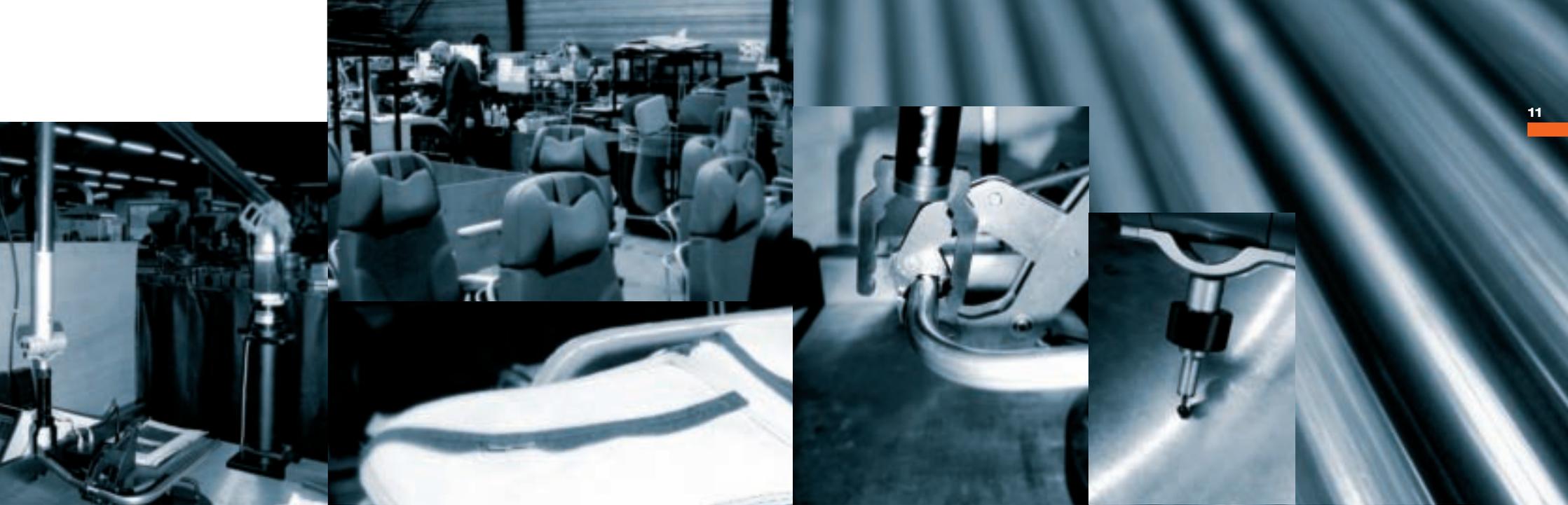
The tubes are welded using semi-automatic processes (MIG, TIG) or braze welding. The assembled parts are profiled, inspected and packed for shipment to subcontractors who apply epoxy paint or zinc chromate plating.



Fabric cutting

Over 200 types of fabric are used, of different colours and materials, including cloth, synthetic fibres, coated fabrics, leather and so on, and unreel as needed for orders. Certain materials are cut using numerically controlled machines.





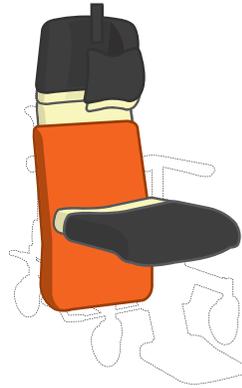
Pre-bonding of foam

Reactivatable hot-melt adhesives are applied to foams and fabrics.



Stitching of fabrics

The various pieces of fabric are sewn on triple-drive machines. Dual needle machines are used for saddle stitch finishing. Bed sore prevention seat materials are inserted at this stage of manufacturing.



Covering

Cover materials are applied over the pre-glued foam then the adhesives are reactivated at temperatures of up to 65°C.



Mounting the back and seat

The back and seat pads are mounted after the gas cylinders are fitted.



Mounting of components

Ancillary parts such as adjustable armrests, footrests, built-in brakes, and so on, are mounted on the chassis.





Rest and transfer armchairs,
height adjustable from 510
to 800 mm above floor level.
They reach the right height to make
everyday movements easier.

RHEA RANGE



F4R
Brake applied
simultaneously
to all 4 wheels



P 822 Variable-height armchair with 45°
tilting backrest.



A handle under the armrests lowers them to the same level as the seat for easier transfers. The height of the armrests can be adjusted on a 6-position rack mechanism with 240 mm of travel for perfect two-handed transfer.

The height and angle of the footrest can be adjusted to suit each patient. The non-slip, topple-resistant footrest can be set flat on the floor for easier access to the armchair and rises with the seat when the height is adjusted.



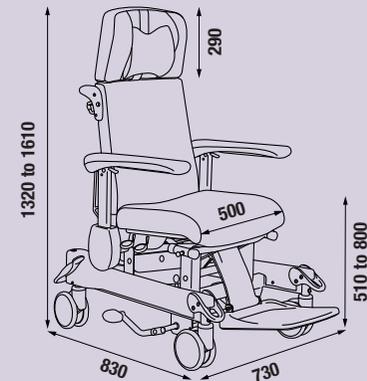
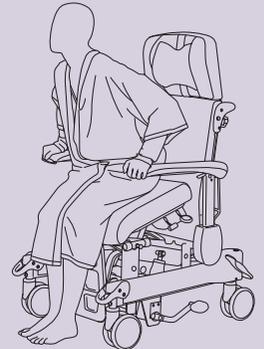
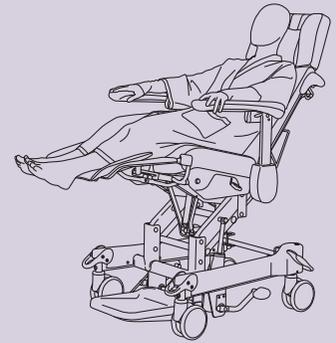
P 822 SY
SYNCHRONISED SEAT AND BACKREST

The synchronised seat and backrest easily adapt to the weight of the patient and ensure that it is evenly distributed, avoiding any slippage. Backrest tiltable to 45°.



P 832
SYNCHRONISED SEAT AND BACKREST, ASSISTED SEAT TILT

The seat lifts to an angle of 15° for total user safety. This ensures easier rehabilitation of lower limbs and relieves tension at waist level.



P 832 - Weight of seat: 58 kg
Maximum load: 135 kg
Dimensions in mm



Rest and transfer armchairs,
height adjustable from 510
to 800 mm above floor level.
They reach the right height to make
everyday movements easier.

IRIS RANGE



P 802 — Variable height medicalised and transfer armchairs. Backrest tiltable to 45°.



Retractable, topple-resistant, non-slip footrest. A handle under the armrests lowers them to the same level as the seat for easier transfers. The height of the armrests can be adjusted on a 6-position rack mechanism with 240 mm of travel for perfect two-handed transfer.



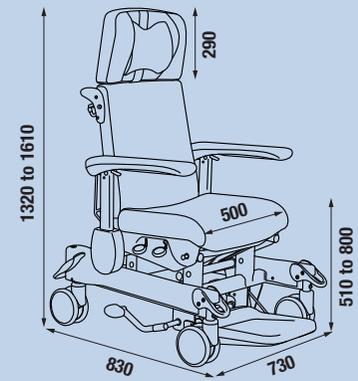
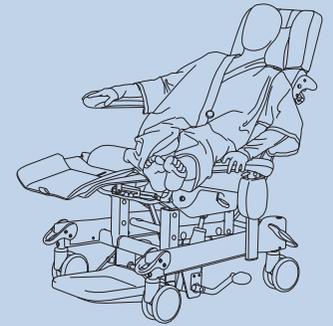
P 802 SY
SYNCHRONISED SEAT
AND BACKREST

The synchronised seat and backrest easily adapt to the weight of the patient and ensure that it is evenly distributed, avoiding any slippage. Backrest tiltable to 45°.



P 812
SYNCHRONISED SEAT
AND BACKREST,
ASSISTED SEAT TILT

The seat lifts to an angle of 15° for total user safety. This ensures easier rehabilitation of lower limbs and relieves tension at waist level.



P 812 - Weight of seat: 58 kg

Maximum load: 135 kg

Dimensions in mm



Multi-purpose rest armchairs. The ergonomic shape and sleek design of these armchairs ensure perfect patient comfort. Painful pressure points are eliminated and cervical contact is maintained with a cushion, adjustable for the height of the patient. Designed to favour rest and relaxation, this innovative, upgradeable armchair can also be used for independent functional rehabilitation of upper and lower limbs. The chair is particularly easy for healthcare staff to operate and move around.

VESTA RANGE



RAF
Braked front wheel



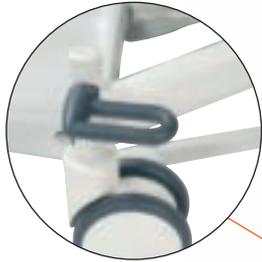
P 702
— Seat base can be unclipped for easier upkeep. Backrest tiltable to 45°, with lumbar support. Armrests can be lowered to seat level.



P10 Anatomical seat liner



P120C Meal tray



RAF
Braked front wheel



P 702 SY
—
**SYNCHRONISED SEAT
AND BACKREST**

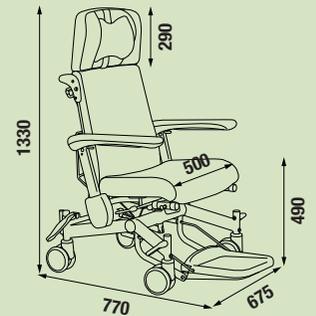
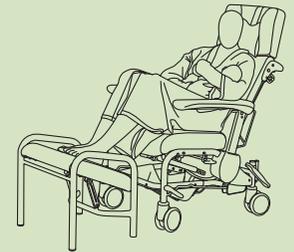
The synchronised seat and backrest tilt together to an angle of 33°, preventing the user feeling the effects of the tilt and avoiding the popliteal cavity being squashed against the front of the seat. This model adapts easily to the weight of the patient, hugging the body, supporting the buttocks and eliminating painful pressure points.



Retractable, top-ple-resistant, non-slip one-piece footrest. Adjustable height (2 positions).



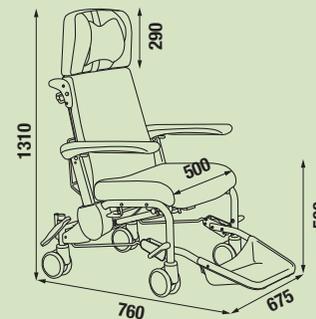
Retractable, top-ple-resistant, non-slip footrest.



P 702 SY - Weight of seat: 41 kg

Maximum load: 135 kg

Dimensions in mm



P 702 - Weight of seat: 33 kg

Maximum load: 135 kg

Dimensions in mm

Rest and relaxation armchairs. With their sleek and ergonomic design, these extra-comfortable armchairs eliminate painful pressure points, maintain cervical contact perfectly and ensure effective rest in their relaxation position. Astrée chairs are also available with an independent adjustable legrest on a rack mechanism (RJRI).

ASTREE RANGE

Backrest tiltable to 45° by gas cylinder, with lumbar support. Controls on both sides for simultaneous tilt of backrest and legrest.

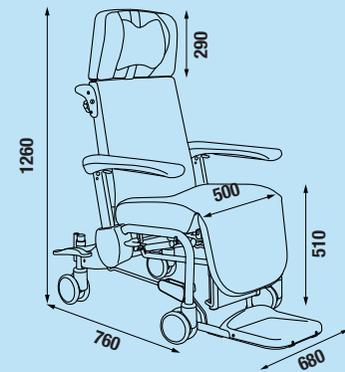


P 712 Innovative, upgradeable, multi-function armchair for patients or visitors. The retractable footrest ensures safe transfer and caters for all lower limb pathologies. The chair is particularly easy to move around.





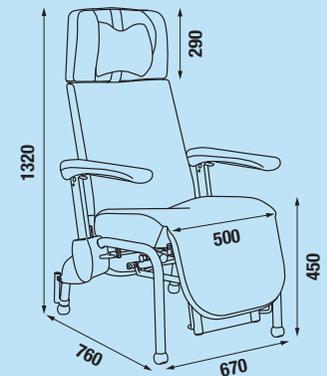
P 512 — The relaxation system improves comfort for patients who must remain lying down for extended periods. It ensures an excellent rest position, adapts fully to the patient's anatomy and guarantees excellent lumbar support and good weight distribution across the buttocks.



P 712 - Weight of seat: 38 kg

Maximum load: 135 kg

Dimensions in mm



P 512 - Weight of seat: 29 kg

Maximum load: 135 kg

Dimensions in mm

Multi-position comfort armchairs

KALI RANGE



Mechanical adjustment using independent extensions for each of the four legs provides a simple solution particularly suitable for the specific needs of orthopaedics, convalescence and rehabilitation.

Footstool P640
Adjustable height



P 602

The ergonomic shape and functions of the armchair guarantee the comfort of patients who need to lie down repeatedly or for long periods of time. Painful points are eliminated and the curvature of the spine is maintained. Backrest tiltable to 45°.



Various accessories are available for short-term or long-term patient needs and ensure an excellent resting position.



P 502

Rest armchair, fixed position on pads with rollers at the rear for easily moving the chair around. Backrest tiltable to 45°. Retractable armrests.

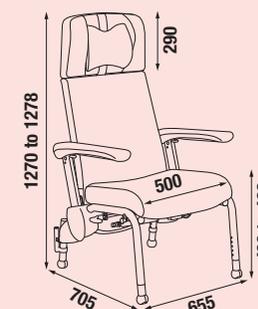
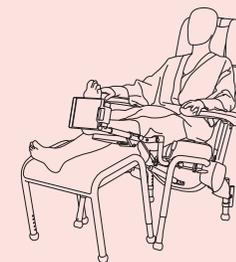


P110
Single-piece
legrest

P 502 SY

SYNCHRONISED SEAT AND BACKREST

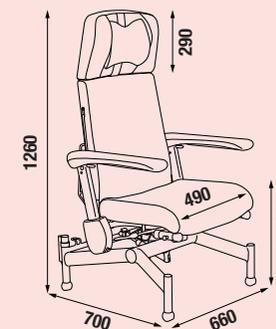
The synchronised seat and backrest tilt together to an angle of 33°, preventing the user feeling the effects of the tilt and avoiding the popliteal cavity being squashed against the front of the seat. This model adapts easily to the weight of the patient, hugging the body, supporting the buttocks and eliminating painful pressure points. It features pads with rear rollers for moving the chair easily.



P 602 - Weight of seat: 27 kg

Maximum load: 135 kg

Dimensions in mm



P 502 SY - Weight of seat: 31 kg

Maximum load: 135 kg

Dimensions in mm

Relaxation and rest armchairs for patients or visitors. They maintain users in an excellent position for comfortable rest. Single-piece backrest for easy upkeep.

HYPNOS RANGE



P110
Legrest with
sliding cushions



P 406
Single-piece backrest, tiltable to 45°, with handle on both sides. Retractable armrests. Pads with rear rollers for moving the chair easily.



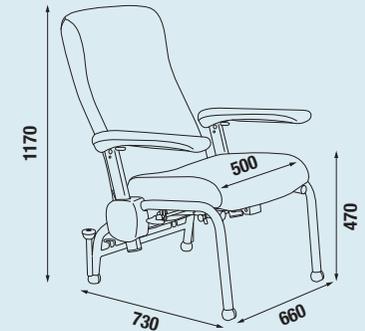
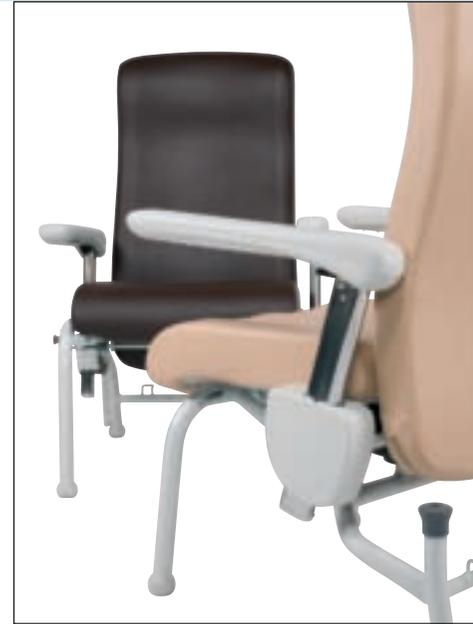
Footstool P340i
Tiltable to 5 positions on rack mechanism.



P 416

SYNCHRONISED SEAT AND BACKREST

The seat and backrest are synchronised via a differential mechanism (tilt angle 33°) and an anti-return system ensures optimal safety. The system adapts easily to the weight of the patient and ensures better weight distribution.



P 406 - Weight of seat: 21 kg
Maximum load: 135 kg
Dimensions in mm



FL026GDG

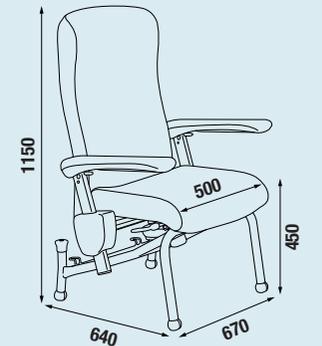
Padded seat and backrest.

Folding chairs with hand grip. Comfortable, ergonomical seat.



FL026GB

Varnished wooden seat and backrest.



P 416 - Weight of seat: 30 kg
Maximum load: 135 kg
Dimensions in mm

P 205

Bridge chair with comfortable, ergonomical seat. Fixed armrests with grab handles.



Tiltable rest armchairs.

HYPNOS RANGE

P40
Neckrest**Footstool P340AP**
Sloped seat**P 405**

This multi-function armchair ensures an excellent rest position and guarantees excellent lumbar support. The floor pads have retractable rollers for moving empty chairs around easily. The generously sized fixed armrests, with grab handles at the front, provide good forearm support.



Footstool P340

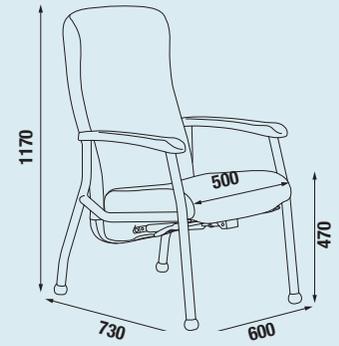


Multi-purpose, multi-function chairs

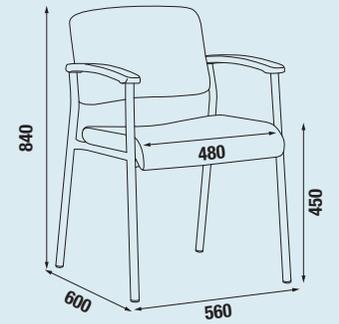
P 104



P 105



P 405 - Weight of seat: 23 kg
Maximum load: 135 kg
Dimensions in mm



P 205 - Weight of seat: 7.5 kg
Maximum load: 135 kg
Dimensions in mm

ARMCHAIRS



Standard anatomical headrest (P1)

Anatomical headrest with adjustable and retractable neck support (P2)

Bed sore prevention seat

Ensures optimal seat comfort and avoids patient slipping

Centralised front brake control for all 4 wheels

Braked front wheel

Bactron fungicidal and anti-bacterial tray

Moulded meal tray, adjustable with notched positions P120C or handwheel P120V

Single-piece legrest with sliding cushions

Concave, 3-position legrest with adjustable tilt

Set of side pads

Provides upper body support. Adjustable width.

SEAT REF.	P1 or P2	APE	F4R	RAF	P120C/P120V	P110	P7
P832	●	●	●		●	●	●
P822SY	●	●	●		●	●	●
P822	●	●	●		●	●	●
P812	●	●	●		●	●	●
P802SY	●	●	●		●	●	●
P802	●	●	●		●	●	●
P702	●	●		●	●	●	●
P702SY	●	●		●	●	●	●
P712	●	●		●	●		●
P512	●	●			●		
P602	●	●			●	●	
P502SY	●	●			●	●	
P502	●	●			●	●	
P416		●			●		
P406		●			●	●	
P405		●				●	

● Accessories available separately

● Options to be specified on ordering

BED SORE PREVENTION SEAT (APE)

Principle

Consists of a high viscosity fluid (handiflow system) which is inert and incompressible

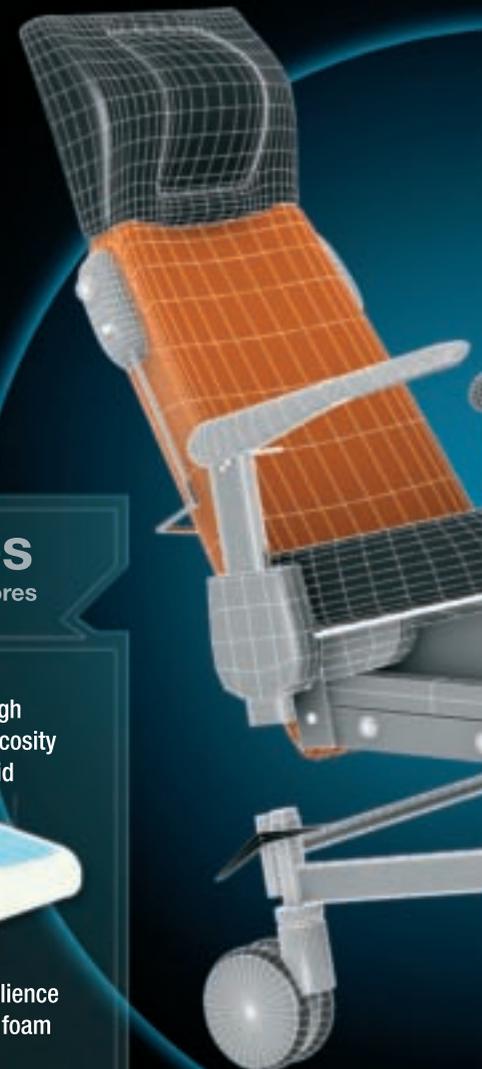


This pouch is integrated into the moulded foam seat



Advantages

Prevents the risk of bed sores

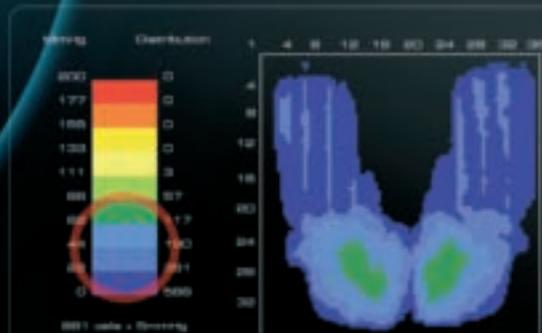




Ideal adaptation to all position changes



Optimal weight distribution



- Ensures that pressure is distributed optimally across all pressure points.
- Moulds perfectly to body shapes.
- Adapts perfectly to changes in body position.
- Greater immersion in fluid with cup-shape to increase the contact surface.
- Relieves load on ischium and reduces pressure on at-risk areas.
- Uniform appearance of armchair.
- Identified by Handiflow label.

This option must be specified on ordering.



Wooden rest chairs and armchairs.
Ideal for elderly people and homely settings.
Ergonomic one-piece backrest with built-in
cervical support.

VACUNA RANGE



6620

Wooden rest armchair.
Fixed backrest.

Footstool 6629



6625

The synchronised seat and backrest tilt together to an angle of 33°, preventing the user feeling the effects of the tilt and avoiding the popliteal cavity being squashed against the front of the seat. This model adapts easily to the weight of the patient, hugging the body, supporting the buttocks and eliminating painful pressure points.





6603

Bridge armchair



6602

Chair



Wood with mahogany finish



Wood with wild cherry finish



Wood with natural beech finish



Wood with mock orange finish



Wood with lavender finish



Wood with linden finish



Wood with lilac finish



Wood with milletia finish

VACUNA RANGE

SIL325



SIL315





SIL220



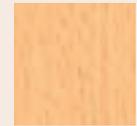
SIL210



Wood with mahogany finish



Wood with wild cherry finish



Wood with natural beech finish



Wood with mock orange finish



Wood with lavender finish



Wood with linden finish



Wood with lilac finish



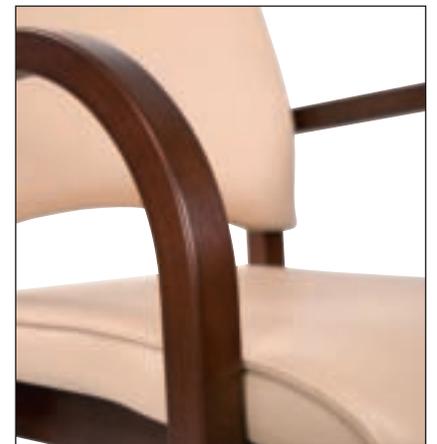
Wood with milletia finish

LONG STAY

34



VACUNA RANGE



EXE01FV4P



SIL221

SIL211



Wood with mahogany finish



Wood with wild cherry finish



Wood with natural beech finish



Wood with mock orange finish



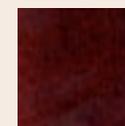
Wood with lavender finish



Wood with linden finish

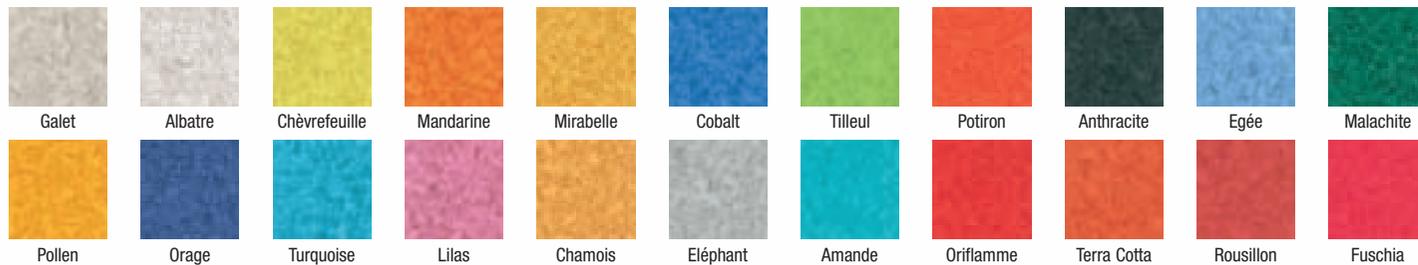


Wood with lilac finish



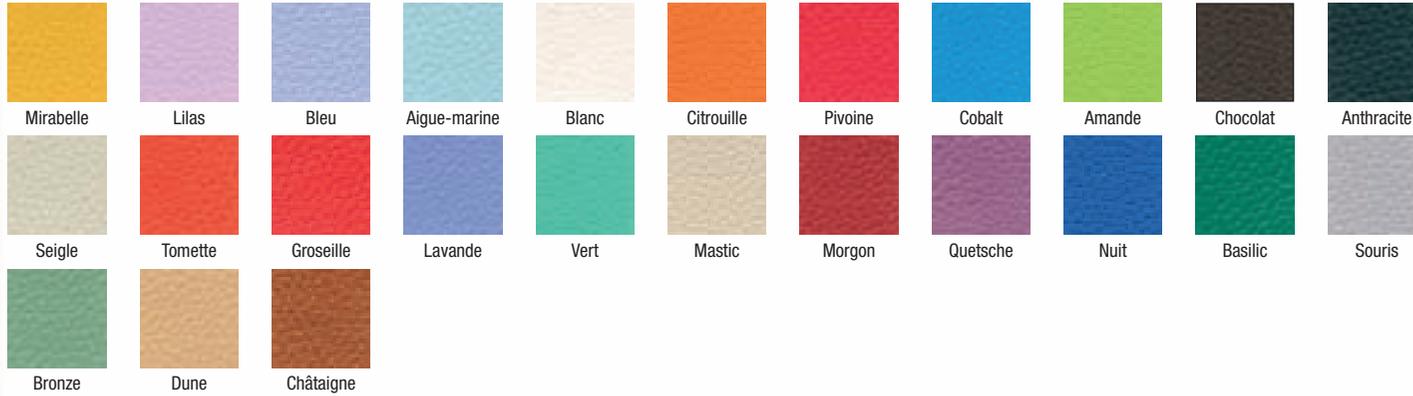
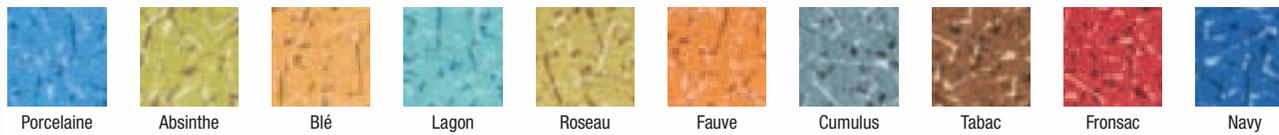
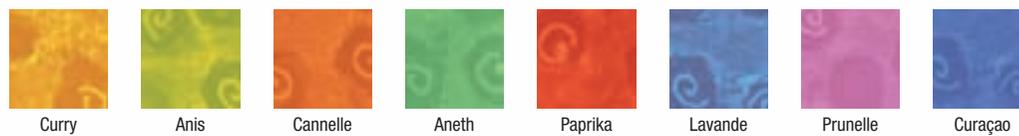
Wood with milletia finish

DIABOLO CLUB



TANGO



GINKGO**MIKADO****CUZCO**

COLOUR CHARTS

COMPANY CERTIFICATIONS



PRODUCT CERTIFICATIONS

CRITERIA TAKEN INTO ACCOUNT FOR CERTIFICATIONS



CE marking is managed by the French healthcare product safety agency (AFSSAPS). We apply Directive 93/42/EEC relating to medical devices.

Accordingly, our armchairs designed to hold intravenous stands or urine collection bag brackets are considered class I medical devices in accordance with Directive 93/42/EEC.



SAFETY



ELECTRICAL SAFETY



FIRE RESISTANCE



TOUGHNESS AND DURABILITY



PERFORMANCE OF FINISH



PERFORMANCE OF COMPONENTS



ERGONOMIC ADAPTABILITY



THE HMD GROUP ACHIEVING EXCELLENCE TOGETHER

THE HMD (HOLDING MICHAUD
DEVELOPMENT) GROUP
IS BUILT AROUND THREE COMPANIES.

navailles

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www.navailles.fr



Kango

Biens
21600 Longvic (France)
www.kango-pro.com



Galloway - Ohio (USA)
www.kango-inc.com



The HMD Group manufactures seats for the following professions...

- **Industry**
- **Workshops**
- **Laboratories**
- **Services**
- **Food processing**
- **Design offices**
- **Shops**
- **Offices**
- **Institutions**
- **Hospitals**
- **Medicalised settings**
- etc.

May 2005

HMD (Holding Michaud Development) established in Longvic

June 2005

Acquired Biens, manufacturer of professional seats sold under the Kango brand. This company was the originator of the "stand-up seat" patent and manufactures professional seats for industry and laboratories.

September 2007

Set up its US subsidiary, Kango Inc. (Ohio).

November 2007

Acquired Navailles, manufacturer of seats for offices, institutional customers and medicalised applications.



ACCESS MAP

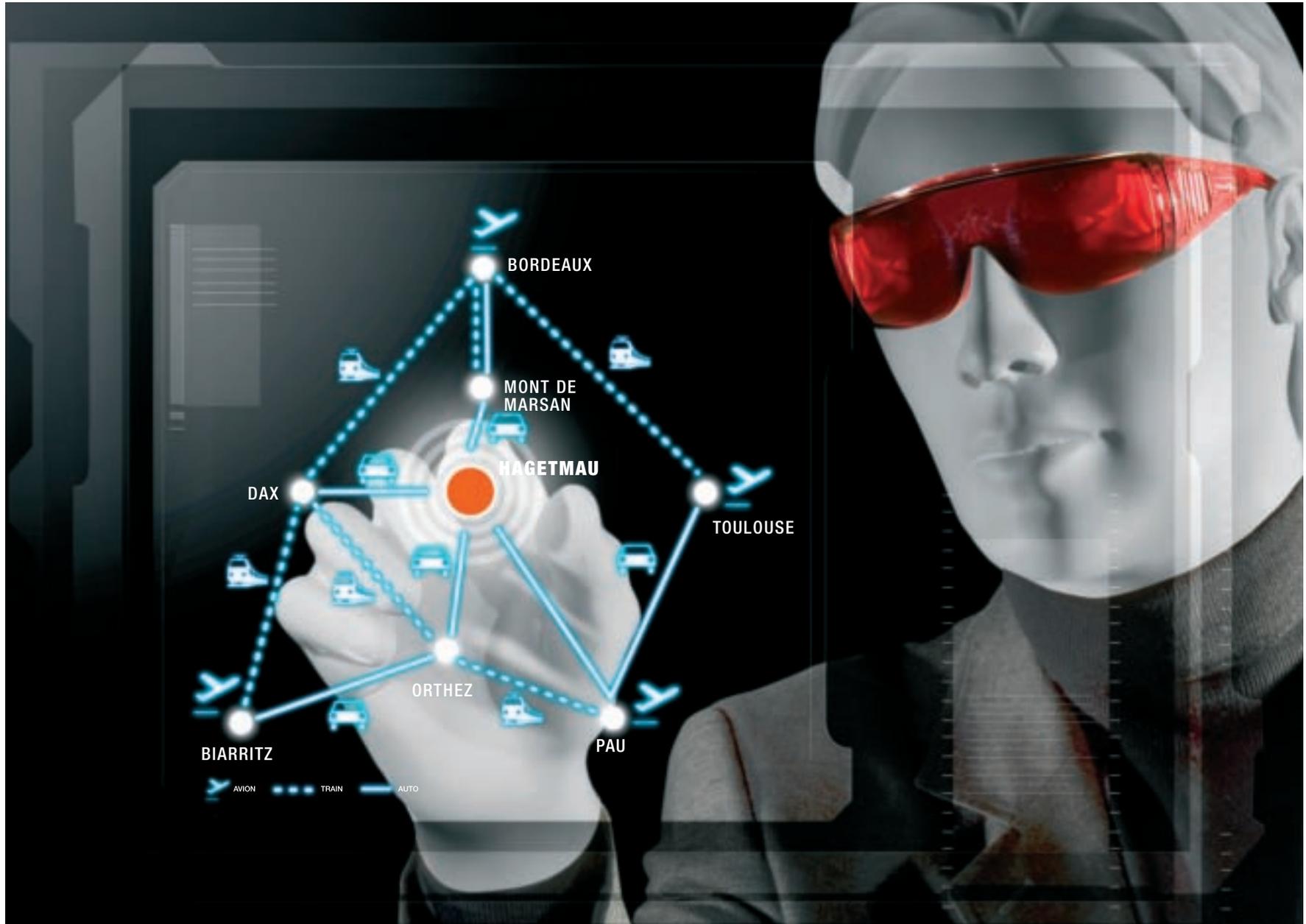
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the characteristics of its products
without notice (this document is not
legally binding).



CHAIRS WELLTHOUGHTOUT



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