

Patient rooms  
Patient treatment areas  
In-patient rehabilitation areas



## Nala™ Patient Chair

The human-centered design approach that produced a distinguished line of Herman Miller task seating is applied to Brandrud's Nala patient chair. Nala builds on a history of science and research and on innovative applications of technology and materials.

### Design Issues

#### 1. Ergonomic Design

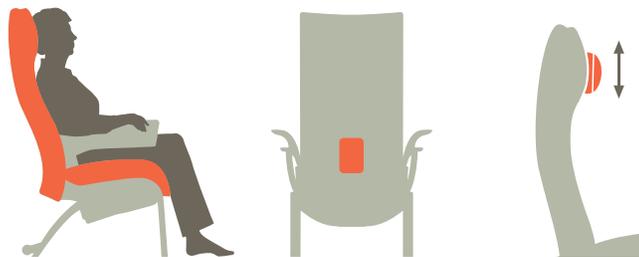
Nala's synchronous back-and-seat tilt motion, called Harmonic™ tilt, mimics the natural movement of the patient's body. The chair's back and seat move in harmony, opening up as the patient reclines and tilting around the pivot points at the ankle, knee, and hip. Result: a relaxed and controlled motion that requires little effort from the patient. Patients can rest at any point within a 24° recline range.



#### 2. Comfortable Support for Patients

Nala supports patients comfortably, even for longer periods of sitting. The seat-and-back suspension is a series of firm, flexible straps that are encased in a layer of high-density foam. The combination offers a perfect balance: responsive and even support over the entire chair surface and a soft outer layer for a comfortable sit and feel.

Sacral support for the lower back (pelvic) area and an adjustable headrest pillow add ergonomic benefits and comfortable support.



#### 3. Functional Support for Caregivers

A sturdy, pivoting arm design, open area beneath the seat, and a flexible front seat edge assist caregivers as they move patients in and out of Nala. The chair's leaf spring acts as a power source that minimizes the physical work of moving seated patients forward—even heavier patients.

Adjustments are simple and intuitive. One button adjusts tilt, and another raises and lowers the chair's arms.



### Dimensions

	 <b>CR43 HARMONIC TILT</b>	 <b>CR42 FLEX BACK</b>	 <b>CR41 FIXED BACK</b>	 <b>CR900 OTTOMAN</b>
width	33	33	33	25.25
height	50.5	50.5	50.5	16.25
depth	28.5	28.5	28.5	16
interior seat width	22.75	22.75	22.75	—
seat height	18	18	18	—
seat depth	18	18	18	—
arm height	9.5	9.5	9.5	—
back height	33.5	33.5	33.5	—
weight	80	77	72	16.5
seat yardage at 54"	1.25	1.25	1.25	1
back yardage at 54"	1.75	1.75	1.75	—
arm rotation	93 deg	93 deg	93 deg	—

### Details + Specifications

#### Models

- Harmonic tilt
- Flex back
- Fixed back
- Ottoman

#### Features

- **Harmonic tilt** - A synchronized tilt offers a relaxed and controlled recline motion. The Harmonic tilt creates pivot points at the hip, knee, and ankle to allow easy and natural movement.
- **Flex back** - Flex version has a 13° range of spring motion.
- **Fixed back** - Same chair design, without the tilt option, but with a comfortable 15° back angle.
- **Seat-and-back suspension** - A series of durable and flexible polyester straps provide continuous and responsive support. The suspension is encased in molded polyurethane foam. The combination—a softer sit and even pressure distribution—provides long-term comfort.
- **Sacral support** - Support located in lower back of chair stabilizes the pelvis, and keeps the patient from slouching and slumping.
- **Arm pads** - Wide polyurethane arm pads are soft and also durable.
- **Pivoting arms** - Arms swing up and out of the way; and lock in upright position. Can also specify fixed arms.
- **Intuitive controls** - Simple lever design and locations on both arms make the tilt and arm pivot adjustments accessible and intuitive.

- **Upholstery and finishes** - Healthcare-appropriate upholstery choices include PVC-free polyurethane (vinyl alternative), antimony-free polyester, antimicrobial textiles, and Crypton and Crypton Green. Standard textile line is also available. Finishes include Titanium on powdercoat, Smoke on plastic arm components, and Graphite on urethane arm pads.
- **Replaceable upholstery** - Seat and back upholstery is field replaceable.
- **Integrated casters or glides** - Casters on rear legs engage when chair is tipped back. Can also specify with glides only.
- **Handle** - Integral handle on chair's back assists caregivers in moving chair.
- **Headrest pillow** - Adjusts up to 9 inches. Edges curve outward to hold and support the patient's head. Can also specify without pillow.
- **Ottoman** - Optional ottoman is sturdy enough to use as a seat for guests or family. Ottoman height is slightly lower than chair's seat height.

#### Specifiable Options

- Rear casters
- FR barrier, Cal TB 133
- Moisture barrier
- Handle
- Headrest pillow and handle
- Upholstery configurations

Details + Specifications (continued)

**Upholstery Options**

- COM friendly and option friendly. Nala offers designers choices for combining textiles and colors, including the 5 configuration options shown here.

**Content and Construction**

- Steel seat and back frames, arms, tilt mechanism, and chassis
- Aluminum die cast legs and arm supports
- Plastic components include glass reinforced nylon and ABS
- Zero-VOC (volatile organic compounds) metal powder coats
- Seat-and-back suspension material is thermoplastic elastomeric polyester
- Seat-and-back foam is molded flexible polyurethane

**Warranty**

- 12-year, 24/7, parts and labor included

**Designers**

- Design Continuum, Boston, Massachusetts  
Lead designers: Gianfranco Zaccai, Mike Arney, and Gregg Flender



**Configuration 1**

*Seat, Inside back, Outside back, Headrest (Fabric 1)*



**Configuration 2**

*Seat (Fabric 1)  
Inside back, Outside back, Headrest (Fabric 2)*



**Configuration 3**

*Seat, Inside Back, Headrest (Fabric 1)  
Outside back (Fabric 2)*



**Configuration 4**

*Seat, Headrest (Fabric 1)  
Inside back, Outside back (Fabric 2)*



**Configuration 5**

*Seat, Inside back, Outside back (Fabric 1)  
Headrest (Fabric 2)*



# Nala Patient Chair

## Environmental Design Standards

The Nala chair's design and development followed the Design for Environment (DfE) protocols established by Herman Miller, in conjunction with McDonough Braungart Design Chemistry (MBDC) and its Cradle to Cradle™ (C2C) Design Protocols. DfE considers both a product's materials and the processes used to manufacture it. Chemical content is rated, and levels of disassembly and recyclability are required. Nala comprises 33% recycled content and is 86% recyclable at the end of its life.

Nala has achieved MBDC Silver C2C certification, the first healthcare-related furniture to receive this rating. Silver certification requires that the manufacturer have a plan in place to manufacture the product with 100% green energy. The protocol further requires full human health and eco-toxicity assessment of each material used in the product.

A number of high-performance, environmentally friendly upholstery choices are offered. A PVC-free polyurethane offers a cleanable and breathable alternative to vinyl. An antimony-free polyester with natural surface repellency has received both MBDC C2C Gold and Silver certification. Crypton Greens and Herman Miller's Textile Alliance Program (TAP) are also available.

## Performance Standards

A 12-year, 24/7 warranty, including parts and labor, is proof of the confidence we place in Nala and its exceptional durability. The Nala chair has met and exceeded our testing standards.

## Brandrud Test Data

Nala is designed and tested to support a person weighing up to 350 pounds. Nala meets or exceeds all ANSI/BIFMA X5.4 lounge seating standards, including:

Test Administered	Rating Achieved
Back Strength – Horizontal, Static	350 lbs force
Back Strength – Vertical, Static	300 lbs force
Back Durability – Cyclic	120,000 cycles/113 lbs force
Arm Strength – Horizontal, Static	200 lbs force
Arm Strength – Vertical, Static	300 lbs force
Arm Durability – Vertical, Cyclic	10,000 cycles/200 lbs force
Drop Tests – Dynamic	300 lbs
Seat Load Ease – Cyclic	20,000 cycles/400 lbs force



# Nala Patient Chair

## Cleaning - Product Overview

### Application

Nala is appropriate for medical patient rooms, surgical patient rooms and in-patient rehabilitation patient rooms. It is expected that the chair will be contaminated with some microorganisms. Patient chairs typically require low-level disinfection to kill vegetative bacteria, fungi and lipid viruses.

### Materials

Nala can be upholstered in a variety of high-performance, healthcare-appropriate materials. Standard fabrics and vinyls, Cryptons, polyurethanes, and other environmentally responsible options are available. COM is also available. Contact Brandrud Customer Relations for a list of pre-approved COM textiles.

### Removability, Replaceability

Both seat and back textile materials are not intended to be removed for cleaning, but Nala's design allows for seat and back textiles to be field replaced. Service parts are available for both. Contact Brandrud Customer Relations for details and conditions of upholstery replacement.

## Cleaning - Protocols and Procedures

Brandrud has established application-based cleaning protocols and procedural guidelines for the cleaning and maintenance of Nala.

### Cleaning Protocols

#### *Routine Cleaning*

Patient rooms are cleaned every day, whether or not the room is occupied. The housekeeper follows a protocol to remove any debris and wipe down environmental surfaces with a detergent/disinfectant registered with the EPA. For the Nala chair, the process will include wiping down the seat, back and frame, paying particular attention to the chair arms and handle where it may receive more frequent contact from patient and healthcare staff.

#### *Terminal Cleaning*

Terminal cleaning occurs after the patient is discharged from the patient room. It is considered to be thorough preparation for the next patient. Generally, the process for the Nala chair is similar to the daily cleaning process unless the room requires decontamination. In that instance, the Nala chair should be disinfected with an EPA registered disinfectant particular to the contamination source (i.e. MRSA, VRE, PSAB, Tuberculosis, etc.).

#### *Periodic Cleaning*

Periodic cleaning is defined as regularly scheduled cleaning. Once per month the chair should be inspected for wear, tears, abrasions, or punctures; stains or spots from ink, blood, vomit, feces, and oil spots (particularly around areas for head and hands); and heavily soiled areas. This cleaning process is basically to brush and vacuum to remove dry soil and follow through with the detergent/disinfectant process as described in the daily cleaning – wiping down the seat, back and frame, paying particular attention to the chair arms and handle where it may receive more frequent contact from patient and healthcare staff.

## Cleaning - Protocols and Procedures (continued)

### *Maintenance Cleaning*

Maintenance cleaning is defined as a thorough cleaning two times per year. The chair would be removed from the patient room to be cleaned in the Environmental Services area where a complete inspection and cleaning process can occur. If the chair has a COM fabric that requires wet extraction methods of cleaning, this is the appropriate cleaning protocol.

### *Incidental Cleaning*

Incidental cleaning (or spot cleaning) encompasses the cleaning of spills, spots and stains, which should be remediated upon detection. Spills may include liquids and solids; food/drink sources, medical products, and bodily fluids. For general spills and spots, the process involves the use of a spot remover product and a protocol for spot removal. For spills involving bodily fluids such as blood, urine, and feces, additional disinfection is required along with safety protocols and protective gear to protect the Environmental Services staff.

## Recommended Cleaning Procedures

### *Routine Cleaning Procedure*

1. Visual inspection for the integrity of the chair parts/fabrics
2. Focus cleaning/disinfecting on horizontal surfaces: seat, arms, and handle where it may receive more frequent contact from patients and healthcare staff
3. Remove debris prior to application of the disinfectant
4. Avoid sprays when possible; wet entire surface to be cleaned and expose to disinfectant for 10 minutes
5. Reapply solution to maintain wet application when necessary
6. Wipe away solution with a clean cloth
7. Change solution frequently (after cleaning each patient room)
8. Always replace cleaning cloth whenever the solution changes
9. Dispose of used germicidal solution in hoppers, toilets, or mop sinks

### *Terminal Cleaning Procedure*

1. Visual inspection for the integrity of the chair parts/fabrics
2. Cleaning should be comprehensive and include horizontal surfaces: seat, arms, and handle where it may receive more frequent contact from patients and healthcare staff; and chair back, especially where the head touches the chair
3. Remove debris prior to application of the disinfectant
4. Avoid sprays when possible; wet entire surface to be cleaned and expose to disinfectant for 10 minutes
5. Reapply solution to maintain wet application when necessary
6. Wipe away solution with a clean cloth
7. Change solution frequently (after cleaning each patient room)
8. Always replace cleaning cloth whenever the solution changes
9. Dispose of used germicidal solution in hoppers, toilets, or mop sinks

### *Periodic Cleaning Procedure*

1. Inspect for wear, tears, abrasions, or punctures
2. Inspect for stains or spots from ink, blood, vomit, feces, and oil spots (particularly around areas for head and hands) and heavily soiled areas
3. Remove any visible debris
4. Brush chair to loosen dry soil
5. Vacuum to remove dry soil
6. Avoid sprays when possible; wet entire surface to be cleaned and expose to disinfectant for 10 minutes
7. Reapply solution to maintain wet application when necessary
8. Wipe away solution with a clean cloth
9. Change solution frequently (after cleaning each patient room)
10. Always replace cleaning cloth whenever the solution changes
11. Dispose of used germicidal solution in hoppers, toilets, or mop sinks

## Cleaning - Protocols and Procedures (continued)

### Maintenance Cleaning Procedure

1. Remove from the patient room to be cleaned in the Environmental Services area
2. Thorough inspection for wear, tears, abrasions, and punctures; stains from ink, blood, urine, vomit, feces and oil spots (particularly around the areas of the hands and head); where a complete inspection and cleaning process can occur
3. Disassemble chair parts for thorough cleaning: casters, arms, seat and back
4. Remove any visible debris
5. Brush chair to loosen dry soil
6. Vacuum to remove dry soil
7. Avoid sprays when possible; wet entire surface to be cleaned and expose to disinfectant for 10 minutes
8. Reapply solution to maintain wet application when necessary
9. Wipe away solution with a clean cloth
10. Change solution frequently (after cleaning each patient room)
11. Always replace cleaning cloth whenever the solution changes
12. Dispose of used germicidal solution in hoppers, toilets, or mop sinks
13. If the chair has a COM fabric, follow the fabric manufacturer's recommendations for cleaning

### Incidental Cleaning (Spot Cleaning) Procedures

#### Liquid Spills

1. Clean promptly with an absorbent cloth before liquids dry
2. Clean visible matter with absorbent material
3. Use an EPA registered quaternary ammonium germicide for disinfection
4. If the liquid is a bodily fluid, swab the area with a cloth moderately soaked with the disinfectant and allow the surface to dry

#### Solid Spills

1. Clean soil promptly, by scraping off residue with dull knife or spoon, and/or blotting up spills with absorbent cloth before liquids dry
2. Blot or wipe with an absorbent cloth if there is residue remaining
3. Use an EPA registered quaternary ammonium germicide for disinfection
4. Swab area with a cloth moderately soaked with the disinfectant and allow the surface to dry

#### Stains

1. Remove excess liquid or solid spills according to the appropriate preceding cleaning procedure
2. Use a water based foam for spot cleaning and test in an inconspicuous area for fading or shrinkage (primarily in the case of a COM fabric)
3. Do not rub or brush the treated area
4. Blot and wipe with a clean cloth or a sponge
5. Rinse with a damp sponge
6. Dry time should be within 4 hours

## Cleaning - Products

### Cleaners/Disinfectants

#### Suggested

- Quest Chemical Corporation 354 QD-64 Disinfectant 64:1 is a disinfectant multipurpose germicide that cleans, deodorizes, and disinfects in one step. This concentrated dual-quat based formula is effective for general purpose cleaning and disinfecting.
- 3M Quat Disinfectant Cleaner No.5 is an EPA approved fourth generation, one-step disinfectant and cleaner. Some disinfectants are only a disinfectant and require a precleaning step first. EPA-registered, hospital-grade quaternary disinfectant cleaner, kills HIV-1, MRSA, VRE, Herpes Simplex I and II and other pathogens.
- A 10% bleach solution can be used on ColorGuard vinyls

*Proprietary fabrics and polyurethanes are undergoing tests for safety and effectiveness with various cleaning solutions. Results will be published in an updated version of the Nala product guide.*



### Competitive Analysis

Product Offering	Features & Options										Line Extensions			List Price
	Adjustable Back Angle	Forward Tilt System	Fold-Away Arms	Elastomeric Suspension Seating Support	Integrated Headrest	Urethane Arm Caps	Rear Casters	Tablet Arm	Removable Upholstery	Multiple Seat Width Options	Replaceable Components	Ottoman	Tandem Seating	
<b>Brandrud</b>														
Andante									●			●		1857
Bloom			●			●			●		●			1420-2435
Centé	●	●	●	●	●	●	●			●	●			2137-2835
Horizon	●								●			●	●	982-1130
Meridian									●			●		985-1128
Nala	●		●	●	●	●	●		●	●	●			2080-2800
Revive						●			●		●			1414-1488
Skylar									●	●		●		870-1026
Wave						●			●	●		●		1100-1248
<b>Nemschoff</b>														
2750						●			●	●	●	●		1246-1397
Capella	●								●		●	●	●	1700-1904
Cities Uptown	●								●	●	●	●		1686-1889
<b>KI</b>														
Briar	●					●			●		●	●	●	1019-1177
Flex	●								●		●	●	●	1246-1404
Rose							●	●	●	●	●	●		927-1744
Warren							●	●	●		●			1124-1483
<b>Wieland</b>														
Capital	●					●			●	●	●	●		1265-1496
Laurelwood						●			●		●	●		629-1113
Wedgewood						●			●		●	●		863-1352
<b>Carolina</b>														
Amenity	●					●			●			●	●	1263-1406
Amenity Metal						●			●			●		1431-1575
Amico	●					●			●			●	●	1131-1245
<b>Nurture</b>														
Cura (Brayton)	●			●		●			●	●	●	●	●	1470-1675
Malibu Too (Brayton)											●	●		1418
Mitra (Softcare)	●								●	●		●	●	800
<b>Sittris</b>														
PA Flex-I-Back						●					●			1375-1620

Disclaimer: All competitor information sourced from price lists and company websites. Competitors may address product deficiencies through modifications or specials.

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