

2023



COMPONENTS FOR LOWER LIMB PROSTHESIS

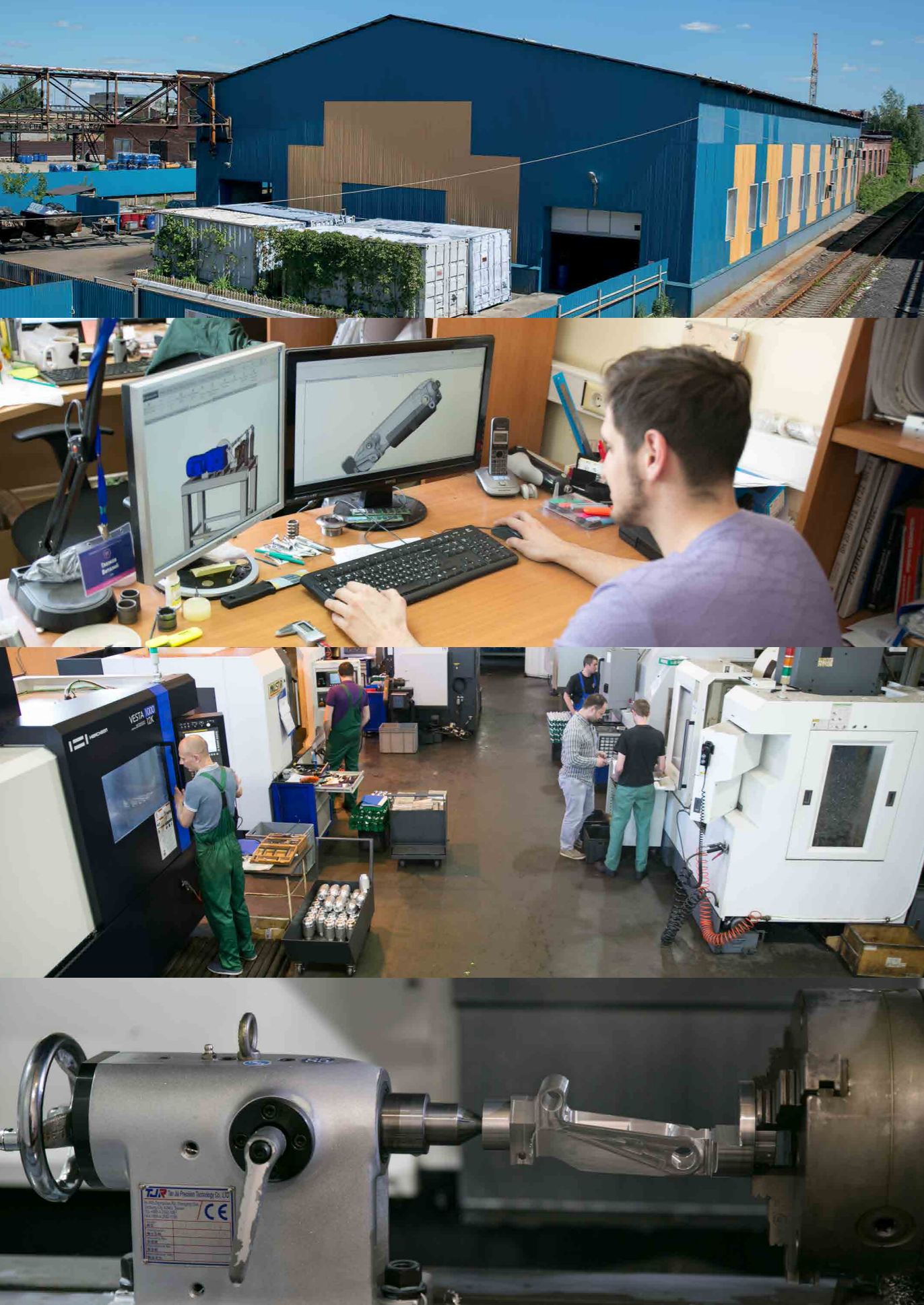
CATALOGUE |

 METIZ

VERSION 7

METIZ





Founded in 1999 METIZ Group of Companies has been successfully operating for more than twenty years to provide high-tech innovative solutions and regain greater independence and freedom for people with permanent or temporary limited mobility. METIZ Group holds a leading position in Russia in the development and production of high-quality, reliable, advanced components and materials for production of lower-limb prostheses. METIZ Group is exclusive distributor of prosthetic and orthopedic products of the most famous and popular foreign companies.

The activities of METIZ Group are mainly focused on four main directions:

1. Design, production and distribution of components and materials for prosthetics;
2. Distribution of components and materials of foreign producers for production of prosthetic and orthopedic products and orthopedic shoes together with providing field technical support in the development of new prosthetics technologies;
3. Distribution of orthopedic products and footwear;
4. Delivery of equipment for prosthetics, orthopedic and shoe shops.

The main emphases METIZ Group places on the design and manufacture of the components for production of high-quality, functional and accessible to people prosthetic products.

The strategy of the company is based on the constant introduction of innovative solutions, maintaining of high quality of products that are not inferior to products of leading world producers. The special focus on caring for customers and meeting their needs enables METIZ Group to hold the leading positions in the Russian market.

METIZ Group has its own design office where highly experienced experts conduct research and design work to create new products, materials and technologies. Thanks to this approach the company's products are always notable for original technical solutions, many of which are protected by patents.

The company introduced a quality management system conforming to international standards, which ensure the quality of products at all stages of the life cycle.

Production facilities are equipped with up-to-date equipment for manufacturing and testing of products. Knowledgeable staff and the system of internal standards provide stable and efficient process management.

The products delivered by METIZ Group are accompanied by all necessary permits and certificates in accordance with the legislation of the Russian Federation and European Union.



METIZ Group is constantly evolving particularly in the application of innovative technologies.

For manufacture of products METIZ Group uses not only the most advanced materials but also engineering solutions taking into consideration the feedback from the partners and the end clients.

Materials that are used by METIZ Group for production of components for lower limb prosthesis have complex of unique properties – high strength, corrosion resistance, low density.

Exceedingly reliable materials – carbon fiber, titanium, aluminum alloys, and stainless steels, well-proven in aviation and space technology allow producing the components of prostheses safe for the patients of different activity levels.

The components of titanium alloy used in the aerospace industry for most important parts such as turbine engine blades have high load capacity and low weight. An important advantage of titanium is biologically inertness to the human body.

For production of the components are applied corrosion resistant (stainless) steel used in the aviation industry and the chemical industry for the products that are subject to considerable cyclic loads in aggressive environments. The use of stainless steels ensures to increase the service life of products, improve reliability in operation and achieve aesthetic appearance.

Aluminum alloy is used in aviation and automotive industries for the production of load bearing elements. The products made of this material have the smallest weight and high fatigue strength. All our products made of aluminum alloys are protected by anti-corrosion coating.

The use of carbon fiber in our products enables not only significantly to reduce the weight of the prosthesis but also due to its unique elastic properties ensures saving of energy by the patient while walking.

The ability to manage during production the structure of the products made of composite materials allows creating optimal on durability and weight components of lower-limb prostheses.

The quality of all materials is certified by certificates of conformity of the respective manufacturers and tested by incoming quality control.



CATEGORY M1

M1

Limited movement at low speed, mainly indoors. Daily activity, which includes limited and uniform movement with a short duration and range of walking on a flat surface.

CATEGORY M2

M2

Continuous movement at low and medium speed in the outside environment. Daily activity that includes typical and repetitive movements with short duration and walking range on a flat and uneven surfaces. Walking involves overcoming low obstacles.

CATEGORY M3

M3

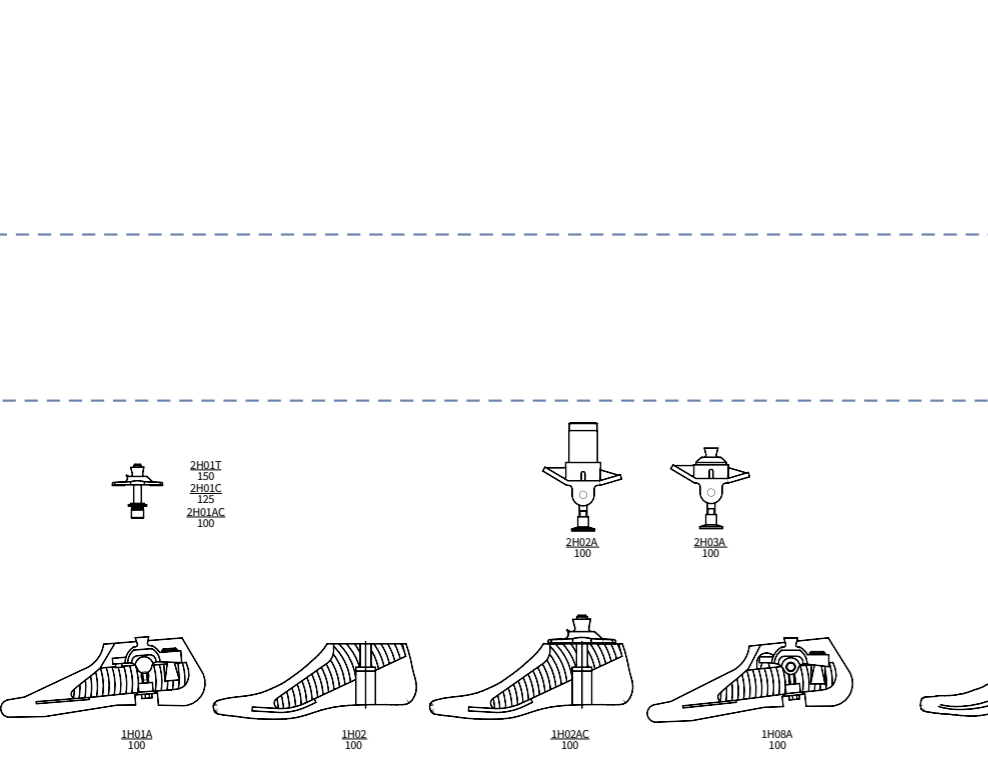
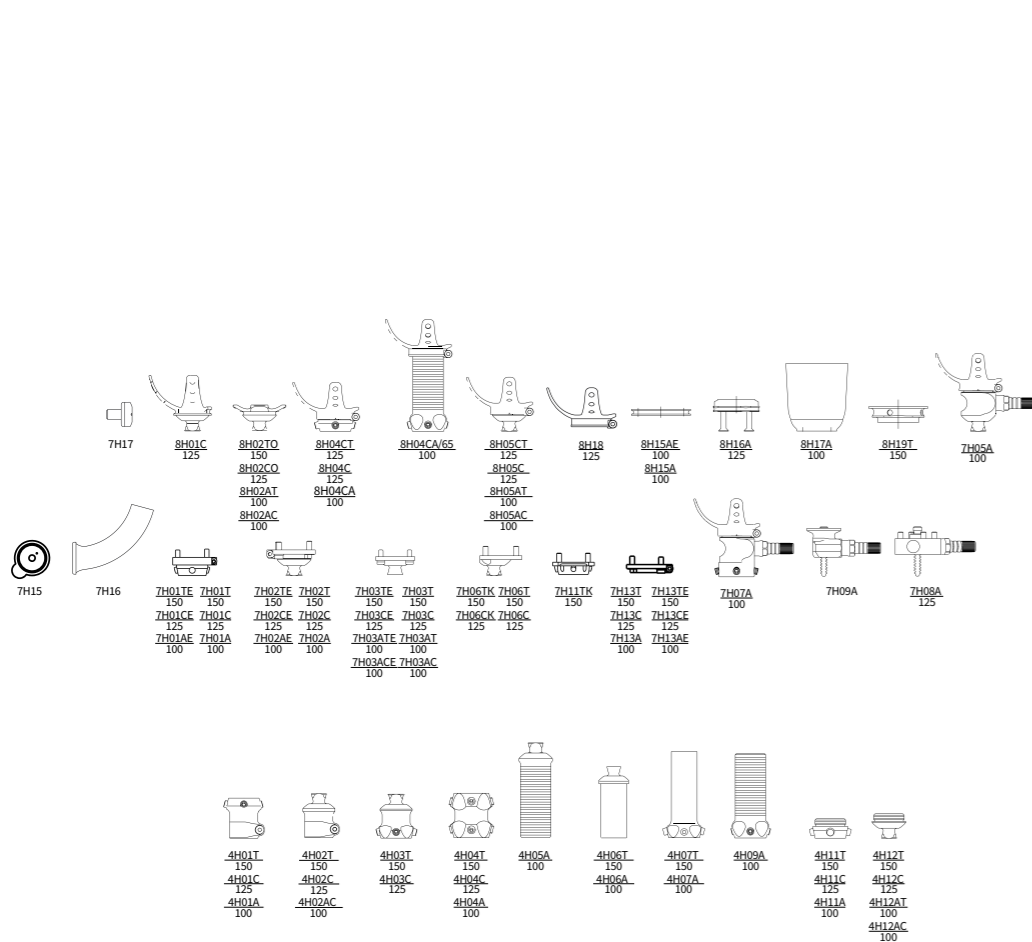
Long movement at medium and high speed. Daily activity, which includes constant movement with an average duration and range of walking in the outside environment. Walking on any surface with overcoming most obstacles.

CATEGORY M4

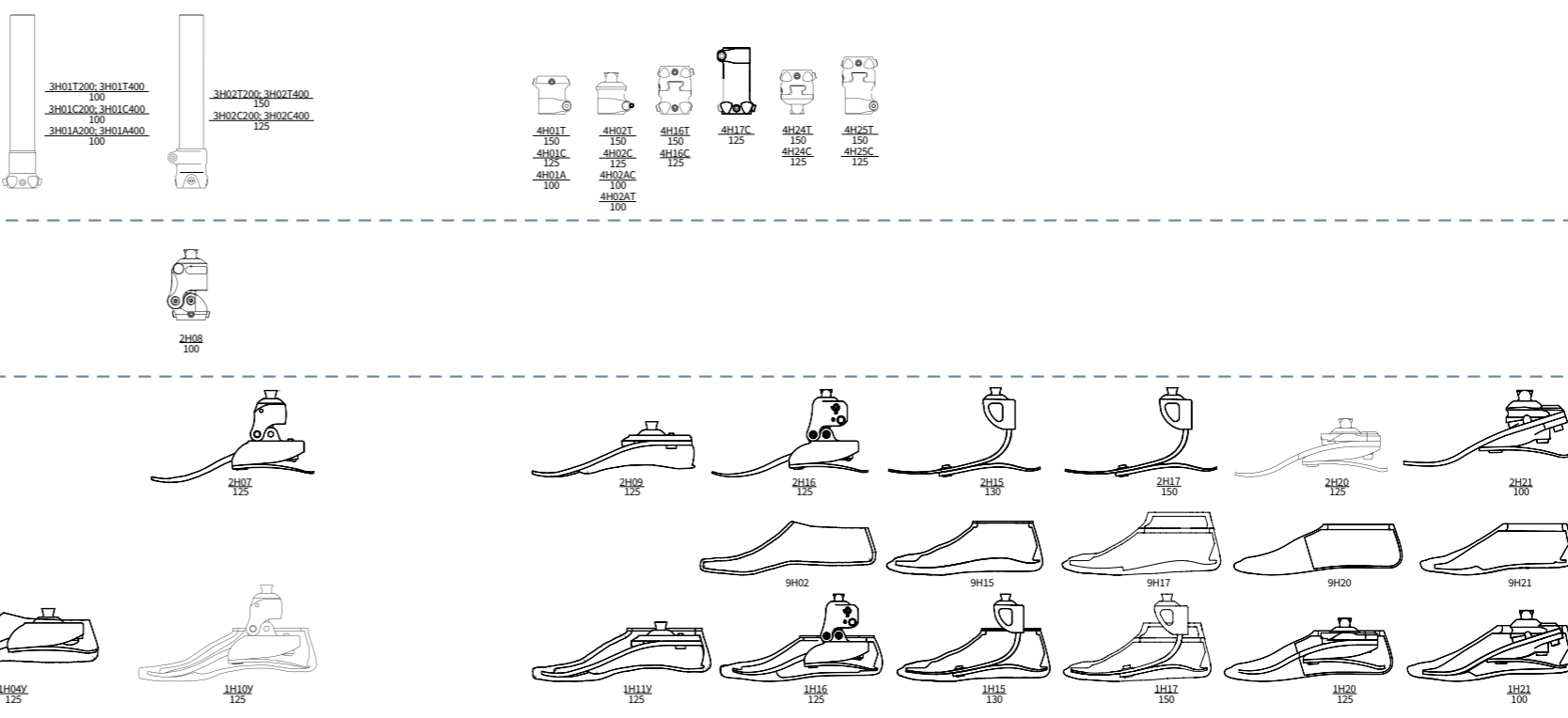
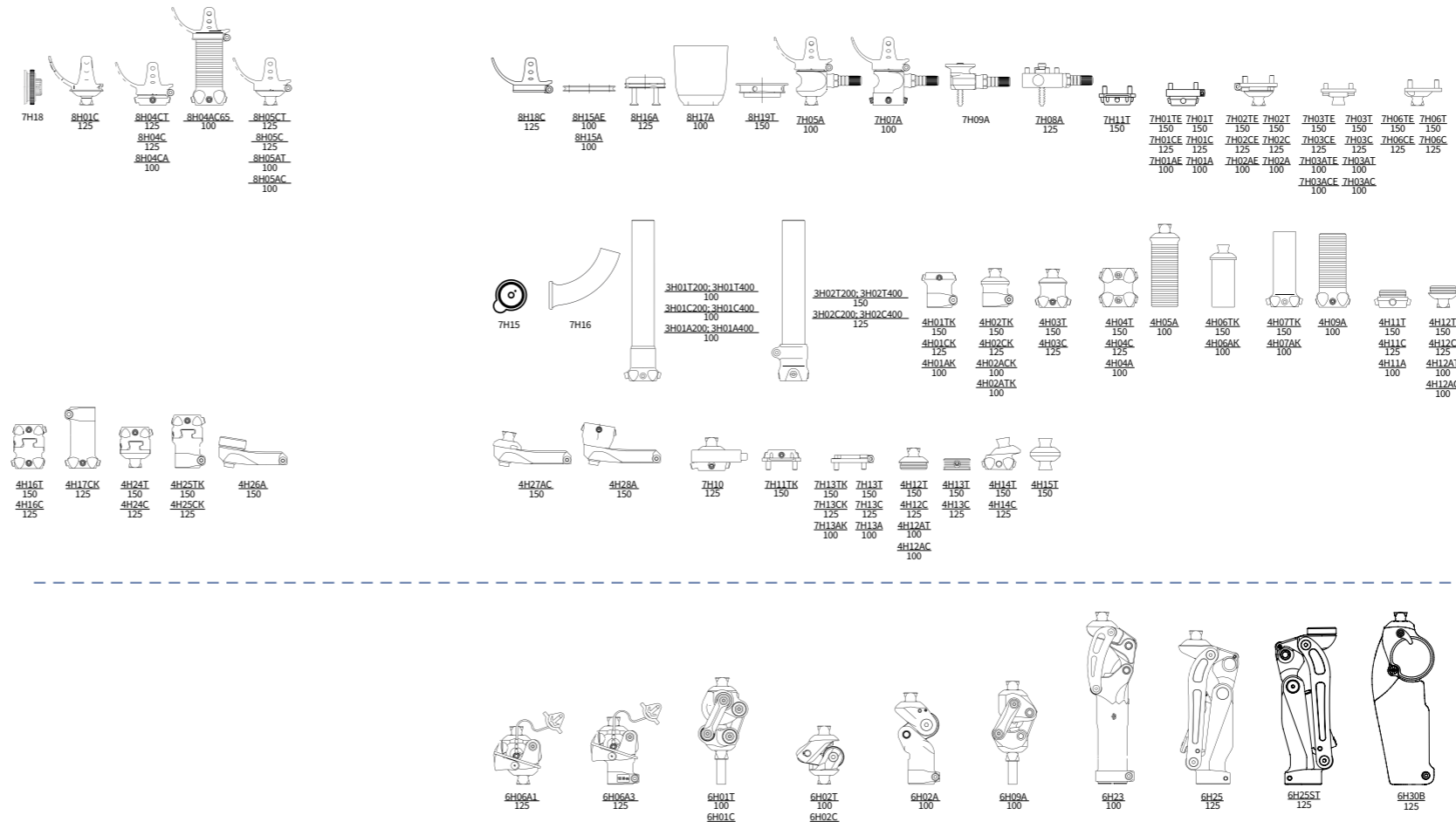
M4

Long movement at medium and high speed. Daily activity, which includes constant movement with an average duration and range of walking in the outside environment. Walking on any surface with overcoming most obstacles.

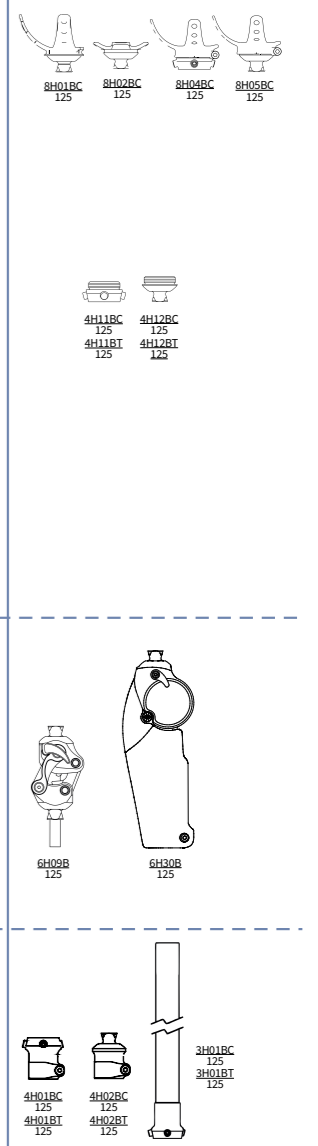
TIBIA PROSTHESIS

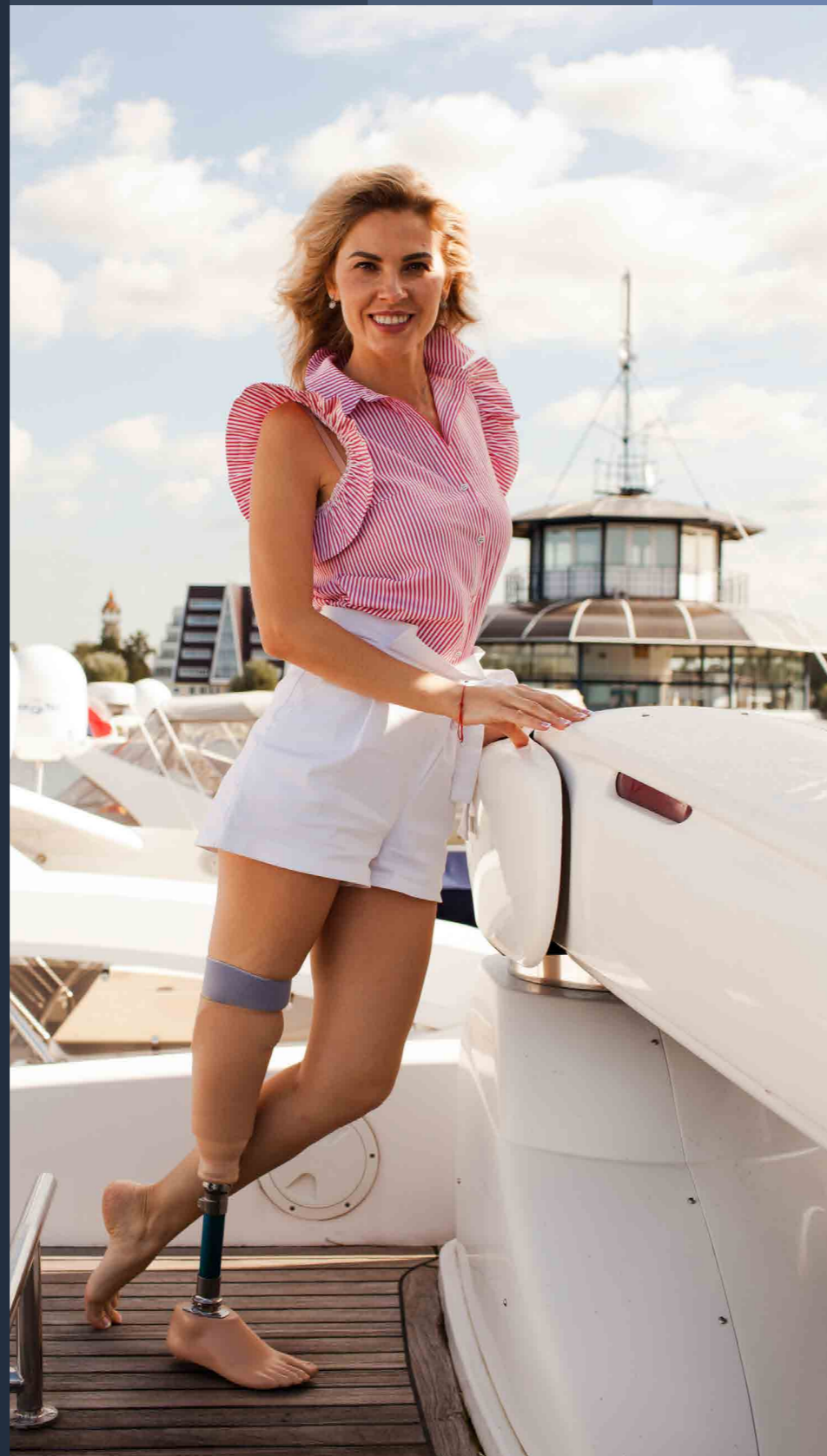


FEMORAL PROSTHESIS



WATERPROOF LINE





1H01A

M1 M2 M3 100 kg 125 kg 150 kg

SINGLE AXIS FOOT WITH ADJUSTABLE HEEL SHOCK ABSORBER



Single Axis Foot with adjustable heel shock absorber is intended for amputees with unilateral or bilateral transfemoral amputation at all levels or transtibial amputation on the boundary of the upper, medium and lower-third, can be used in prostheses after the disarticulation of the knee or hip joint.

Single Axis Foot 1H01A has a plastic embedded insert in the forefoot, which ensures its elasticity and durability. The foot is produced in right and left versions. Single Axis Foot 1H01A consists of foot and foot adapter with adjustable heel shock absorber of medium stiffness. Adjustment of the heel shock absorber by means of screw allows tuning of heel stiffness without disassembling the prosthesis.

Changeable shock absorbers of soft and hard stiffness are ordered separately.

TECHNICAL CHARACTERISTICS

| Size, cm | Weight, g | Build height min., mm | Heel height, mm |
|----------|-----------|-----------------------|-----------------|
| 22 | 557 | 80 | 10 |
| 23 | 587 | 80 | 10 |
| 24 | 617 | 80 | 10 |
| 25 | 667 | 81 | 10 |
| 26 | 717 | 81 | 10 |
| 27 | 747 | 81 | 10 |
| 28 | 810 | 84 | 10 |
| 29 | 880 | 84 | 10 |
| 30 | 930 | 84 | 10 |

FEATURES



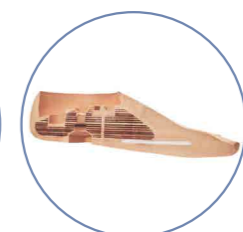
Comes assembled.



Adjustable heel shock absorber.



Anatomical cosmetic cover.



Plastic embedded insert in the forefoot ensures its elasticity and durability.



Changeable shock absorbers, soft & hard.*
*Ordered separately.



FEET

COMPONENTS FOR LOWER LIMB PROSTHESIS



1HO2AC

M1 M2 M3 100 kg 125 kg 125 kg

SACH FOOT



SACH Foot 1HO2AC is intended for patients with unilateral or bilateral transfemoral amputation at all levels or transtibial amputation on the boundary of the upper, medium and lower-third, can be used in prostheses after the disarticulation of the knee or hip joint.

SACH Foot has a plastic embedded insert in the forefoot, which ensures its elasticity and durability. The foot is produced in right and left versions. SACH Foot 1HO2AC is supplied assembled with foot adapter 2HO1AC.

TECHNICAL CHARACTERISTICS

| Foot size | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---------------|---------|---------|---------|---------|---------|---------|
| Length, mm | 220 | 230 | 240 | 250 | 260 | 270 | 280 |
| Weight of foot with adapter, g | 478 ±20 | 493 ±20 | 508 ±20 | 578 ±20 | 600 ±15 | 693 ±20 | 708 ±20 |
| Building height | 94 mm | | | | | | |
| Heel height, mm | 10 mm | | | | | | |
| The range of adjustment relative to their neutral position in the prosthesis in the frontal and sagittal planes | Up to ±7,5° | | | | | | |
| Temperature range | -40 ... +40°C | | | | | | |
| Lifetime | 2 years | | | | | | |

FEATURES



Comes assembled with foot adapter 2HO1AC

Anatomical cosmetic cover.

Plastic embedded insert in the forefoot ensures its elasticity and durability.



1HO8A

M1 M2 M3 100 kg 125 kg 150 kg

SINGLE AXIS FOOT WITH ADJUSTABLE HEEL HEIGHT



Single Axis Foot with adjustable heel height 1HO8A is intended for amputees with unilateral or bilateral transfemoral amputation at all levels or transtibial amputation on the boundary of the upper, medium and lower-third of it, can be used in prostheses after the disarticulation of the knee or hip joint.

The Foot 1HO8A has a plastic embedded insert in the forefoot, which ensures its elasticity and durability. The foot is produced in right and left versions.

Consists of foot and foot adapter with adjustable heel shock absorber of medium stiffness. Adjustment of the heel shock absorber by means of screw allows tuning heel stiffness without disassembling the prosthesis. The foot has 2 fixed heel heights. The substitute shock absorber is ordered separately.

TECHNICAL CHARACTERISTICS

| Size, cm | Weight, g | Build height min., mm | Heel height, Min – max, mm |
|----------|-----------|-----------------------|----------------------------|
| 22 | 557 | 80 | 10–25 |
| 23 | 587 | 80 | 10–25 |
| 24 | 617 | 80 | 10–25 |
| 25 | 667 | 81 | 10–25 |
| 26 | 717 | 81 | 10–25 |
| 27 | 747 | 81 | 10–25 |
| 28 | 810 | 84 | 10–25 |
| 29 | 880 | 84 | 10–25 |
| 30 | 930 | 84 | 10–25 |

FEATURES



Comes assembled.

Two-stage heel height adjustment.

Adjustable heel shock absorber.

Plastic embedded insert in the forefoot ensures its elasticity and durability.



2H20Y AND 2H21Y

M1 M2 M3 80 kg 100 kg 125 kg

CARBON FOOT



2H21 Carbon foot without footshell, size 22–23

2H20 Carbon foot without footshell, size 24–25, size 26–28

Carbon Foot is intended for patients with M1–M3 activity level unilateral or bilateral transfemoral amputation at all levels or transtibial amputation on the boundary of the upper, medium and lower-third of it, can be used in prostheses after the disarticulation of the knee or hip joint.

The foot is produced in right and left versions in 7 categories of stiffness that are selected depending on the patient's weight from 45 kg to 125 kg.

Carbon Foot has the improved quality of damping in the phase of front push, easy and smooth rollover.

Application of the front elastic element with nonlinear stiffness characteristics provides a return of energy proportional to the walking pace.

Design of the front elastic element provides the increased stability in stance phase and energy return in the phase of rear shock.

The cosmetic footshell of 2H21Y foot has a slim design and will be convenient for women's shoes. The cosmetic footshell of 2H20Y foot has a standard design.

FEATURES



9H20 Removable cosmetic footshell



Lid for fixing prosthesis cover



9H21 Slim cosmetic footshell



Limiter for extreme loads

TECHNICAL FEATURES

| SIZE [SM] | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---------------------------|--|----|---------------------|----|---------------------|----|----|
| CATEGORY | 1 - 3 | | 2 - 6 | | 2 - 7 | | |
| SLIM OR STANDARD FOOSHELL | 2H21Y SLIM 9H21 | | 2H20Y STANDARD 9H20 | | 2H20Y STANDARD 9H20 | | |
| BUILDING HEIGHT MM | 67±2 | | 60±2 | | 62±2 | | |
| WEIGHT [G] | ~500 (CARBON FOOT WITH FOOTSHELL, SIZE 24) | | | | | | |
| HEEL HEIGHT [MM] | 10 | | | | | | |
| TEMPERATURE RANGE [°C] | от -40 до +40 | | | | | | |

FOOT SELECTION

| SIZE | Footshell | Slim / Standard footshell | Category | Carbon foot | WEIGHT recommended, kg | Maximum weight of amputee, kg |
|------|-------------------|---------------------------|----------|-------------|------------------------|-------------------------------|
| 22 | 9H2122L / 9H2122R | | 1 | 2H21Y22231 | 45-55 | 60 |
| | | | 2 | 2H21Y22232 | 55-65 | 65 |
| | | | 3 | 2H20Y24252 | 55-65 | 72 |
| 24 | 9H2124L / 9H2124R | Slim | 2 | 2H20Y24253 | 65-72 | 72 |
| | | | 3 | 2H20Y24254 | 72-80 | 80 |
| | | | 4 | 2H20Y24255 | 80-90 | 90 |
| | | | 5 | 2H20Y24256 | 90-100 | 100 |
| | | | 6 | 2H21Y22233 | 65-72 | 110 |
| | | | 2 | 2H20Y24252 | 55-65 | 72 |
| 24 | 9H2024L / 9H2024R | | 3 | 2H20Y24253 | 65-72 | 80 |
| | | | 4 | 2H20Y24254 | 72-80 | 90 |
| 25 | 9H2025L / 9H2025R | | 5 | 2H20Y24255 | 80-90 | 100 |
| | | | 6 | 2H20Y24256 | 90-100 | 110 |
| | | | 2 | 2H20Y26282 | 55-65 | 72 |
| | | | 3 | 2H20Y26283 | 65-72 | 80 |
| 26 | 9H2026L / 9H2026R | | 4 | 2H20Y26284 | 72-80 | 90 |
| | | | 5 | 2H20Y26285 | 80-90 | 100 |
| 27 | 9H2027L / 9H2027R | | 6 | 2H20Y26286 | 90-100 | 110 |
| | | | 7 | 2H20Y26287 | 100-125 | 125 |
| 28 | 9H2028L / 9H2028R | | 6 | 2H20Y26286 | 90-100 | 110 |
| | | | 7 | 2H20Y26287 | 100-125 | 125 |

- ▶ To order assembled foot (1H20Y26R5) size 26, right, category 5, order footshell 9H2026R and foot 2H20Y26285
- ▶ To order assembled foot (1H21Y22R2) size 22, right, category 2, order footshell 9H2122R (SLIM) and foot 2H21Y22232

2H07Y

M1 M2 M3 100 kg 125 kg 150 kg

CARBON FOOT WITH ADJUSTABLE HEEL HEIGHT



| TECHNICAL FEATURES | |
|----------------------|---------------|
| Max. user weight | 125 kg |
| Build height | 115 mm |
| Weight with ankle | 930 (size 26) |
| Heel height range | 40 mm* |
| Stiffness categories | 5 |
| Temperature range | -40 ... +40°C |
| Lifetime | 2 years |

2H07Y — foot with carbon keel and hydraulic ankle providing smooth and simple adjustment of heel height in wide range.

The foot is intended for the patients with different activity levels, unilateral or bilateral trans-femoral amputation at all levels or trans-tibial users; it can be used in prostheses after the disarticulation of knee or hip joint.

The carbon foot with the medium and high degree of energy saving is intended for the amputees from 50 kg to 100 kg.

2H07Y foot is available in 5 categories of stiffness depending on the patient weight.

The foot has the improved quality of damping in the phase of front push, easy and smooth rollover. Energy response grows with an increase of walking speed due to nonlinear increase in stiffness of carbon fiber element.

Design of the front elastic element provides the increased stability in stance phase and energy response in the phase of rear shock. The foot is produced in right and left versions.

FOOT SELECTION

| SIZE | Footshell | Category | Carbon foot with adjustable heel height | WEIGHT recommended, kg | Maximum weight of amputee, kg | Color indication |
|------|-------------------|----------|---|------------------------|-------------------------------|------------------|
| 24 | 9H0224L / 9H0224R | 2 | 2H07Y24252 | 50-65 | 80 | Green |
| | | 3 | 2H07Y24253 | 66-75 | 100 | Red |
| | | 4 | 2H07Y24254 | 76-85 | 100 | Orange |
| 25 | 9H0225L / 9H0225R | 5 | 2H07Y24255 | 80-100 | 125 | Yellow |
| | | 2 | 2H05Y26282 | 50-65 | 80 | Green |
| 26 | 9H0226L / 9H0226R | 3 | 2H05Y26283 | 66-75 | 100 | Red |
| | | 4 | 2H05Y26284 | 76-85 | 100 | Orange |
| 27 | 9H0227L / 9H0227R | 5 | 2H05Y26285 | 80-100 | 125 | Yellow |
| | | 6 | 2H05Y26286 | 101-125 | 125 | Blue |

▶ To order assembled foot (1H10Y26R5) size 26, right, category 5, choose footshell 9H0226R and carbon foot with adjustable heel height 2H07Y26285

FEATURES:

- ▶ Accumulation and return of energy by elastic forefoot and hindfoot elements.
- ▶ Response proportional to the patient weight and activity level.
- ▶ Reliance on the entire surface of the foot.
- ▶ Soft contact with the surface when stepping on the heel.
- ▶ Natural rollover.
- ▶ Stepless heel height adjustment — 0–40 mm.



Protection of the button against accidental pushing

9H02 Removable anatomical cosmetic footshell.

2H09Y

M1 M2 M3 100 kg 125 kg 150 kg

CARBON FOOT WITH POLYURETHANE HEEL



TECHNICAL FEATURES

| | |
|----------------------------|---------------|
| Max. user weight | 125 kg |
| Build height | 73 mm |
| Weight (depending on size) | 550 (size 25) |
| Stiffness categories | 3 |
| Temperature range | -40 ... +40°C |
| Lifetime | 2 years |

2H09Y foot with carbon keel and polyurethane heel is intended for the patients with different activity levels, unilateral or bilateral trans-femoral amputation at all levels or trans-tibial users; The foot can be used in prostheses after the disarticulation of knee or hip joint.

The carbon foot with the medium and high degree of energy saving is intended for the amputees from 55 kg to 125 kg.

2H09Y foot is available in 3 categories of stiffness depending on the patient weight. The foot is produced in right and left versions.

FOOT SELECTION

| SIZE | Footshell | Category | Carbon foot with adjustable heel height | WEIGHT recommended, kg | Maximum weight of amputee, kg |
|------|-------------------|----------|---|------------------------|-------------------------------|
| 24 | 9H0228L / 9H0228R | 1 | 2H09Y24251 | 55-70 | 70 |
| | | 2 | 2H09Y24252 | 70-90 | 90 |
| | | 3 | 2H09Y242543 | 90-125 | 125 |
| 26 | 9H0226L / 9H0226R | 1 | 2H09Y26281 | 55-70 | 70 |
| 27 | 9H0227L / 9H0227R | 2 | 2H09Y26282 | 70-90 | 90 |
| | | 3 | 2H09Y26283 | 90-125 | 125 |

▶ To order assembled foot (1H11Y26R3) size 26, right, category 3, choose footshell 9H0226R and foot 2H09Y26283

FEATURES:

- ▶ Accumulation and return of energy by elastic carbon fiber keel.
- ▶ Response proportional to the patient's weight and activity level.
- ▶ Reliance on the entire surface of the foot.
- ▶ Natural rollover.
- ▶ Low building height.



9H02 Removable anatomical cosmetic footshell.



2H15Y

M1 M2 M3 M4 45 kg 80 kg 130 kg

CARBON FOOT

NEW



The carbon foot is intended for the patients with M2 – M4 activity levels (excepting sportive loads), unilateral or bilateral trans-femoral amputation at all levels or trans-tibial users on the line of the upper and middle third; it can be used in prostheses after the disarticulation of knee or hip joint.

The foot is available in left and right design and in 8 categories of stiffness suitable for the patients from 45 kg to 130 kg depending on the patient's activity level.

The carbon foot consists of extended carbon fiber toe and heel blades with nonlinear stiffness characteristics, which provide energy return proportional to the pace of the walk, easy and smooth rollover.

The foot incorporates an innovative one-piece elastic connection of the toe element and the adapter that allows for a low building height of the foot and a high degree of energy efficiency when walking.

Technical solutions applied in the design of 2H15Y feet aimed at ensuring high safety level, significant load reduction on the spine and sound limb, providing a natural gait.

TECHNICAL FEATURES

| SIZE | Footshell | Category | Carbon foot |
|------|-------------------|----------|-------------|
| 22 | 9H1522L / 9H1522R | 1-4 | 2H15Y22X* |
| 23 | 9H1523L / 9H1523R | | 2H15Y23X |
| 24 | 9H1524L / 9H1524R | 1-5 | 2H15Y24X |
| 25 | 9H1525L / 9H1525R | 2-7 | 2H15Y25X |
| 26 | 9H1526L / 9H1526R | 2-8 | 2H15Y26X |
| 27 | 9H1527L / 9H1527R | | 2H15Y27X |
| 28 | 9H1528L / 9H1528R | 4-8 | 2H15Y28X |

* X – Category

▶ To order assembled foot (1H15Y26R5) size 26, right, category 5, choose footshell 9H1526R and foot 2H15Y26R5.

TECHNICAL CHARACTERISTICS

| Size (cm) | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|----------------------|--|----|-------|-------|-------|----|-------|
| Stiffness categories | 1...4 | | 1...5 | 2...7 | 2...8 | | 4...8 |
| Building height (mm) | 125 | | | 147 | | | |
| Weight (g) | 740±15 (27 size, stiffness category 5) | | | | | | |
| Heel height (mm) | 10±5 | | | | | | |

SELECTION OF STIFFNESS CATEGORY

| Recommended weight of patient [kg] | 45...53 | 53...61 | 61...70 | 70...80 | 80...90 | 90...100 | 100...115 | 115...130 | |
|--|---------|---------|---------|---------|---------|----------|-----------|-----------|---|
| Recommended stiffness for activity level | M2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | M3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | M4 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | – |

The body weight should not exceed the maximum permissible (upper value of the recommended range) for the selected stiffness category and activity level.

FEATURES



9H15 Removable anatomical cosmetic footshell.



Lid for fixing prosthesis cover.



Split toe and heel for stability on uneven surface.



2H17YB

M1 M2 M3 M4 45 kg 80 kg 150 kg

WATER-RESISTANT CARBON FOOT



Water-resistant carbon fiber foot is designed for patients with M2-M4 activity level (without sports loads). The foot is produced in right and left versions with split toe, 8 categories of stiffness, which are selected depending on the patient's weight, in the range from 45 to 150 kg, and activity level. The 2H17YB foot can be used in fresh, salt and chlorinated water. Foot shell is designed with sandal toe and water drainage holes.

The use of extended carbon-fiber elements in the foot design, which have non-linear rigidity characteristics, provides a return of energy proportional to the pace of walking, an easy and smooth roll.

Technical solutions applied in the design of 2H17YB foot aimed at ensuring high safety level, significant load reduction on the spine and sound limb, providing a natural gait.

TECHNICAL CHARACTERISTICS

| Size (cm) | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|----------------------|--|------|------|------|------|------|----|
| Stiffness categories | 1..4 | 1..5 | 2..7 | 2..8 | 2..8 | 4..8 | |
| Building height (mm) | 125 | | | 147 | | | |
| Weight (g) | 740±15 (27 size, stiffness category 5) | | | | | | |
| Heel height (mm) | 10±5 | | | | | | |

SELECTION OF STIFFNESS CATEGORY

| Recommended weight of patient [kg] | | 45...53 | 53...61 | 61...70 | 70...80 | 80...90 | 90...100 | 100...115 | 115...130 | 130...150 |
|------------------------------------|--|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|
| | Recommended stiffness for activity level | M2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | M3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | — |
| | M4 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | — | — |

The body weight should not exceed the maximum permissible (upper value of the recommended range) for the selected stiffness category and activity level.

FOOT SELECTION

| Size | Footshell | Category | Carbon foot |
|------|-------------------|----------|-------------------------|
| 22 | 9H1722L / 9H1722R | 1-4 | 2H17YB22LX*/2H17YB22RX* |
| 23 | 9H1723L / 9H1723R | | 2H17YB23LX / 2H17YB23RX |
| 24 | 9H1724L / 9H1724R | 1-5 | 2H17YB24LX / 2H17YB24RX |
| 25 | 9H1725L / 9H1725R | 2-7 | 2H17YB25LX / 2H17YB25RX |
| 26 | 9H1726L / 9H1726R | 2-8 | 2H17YB26LX / 2H17YB26RX |
| 27 | 9H1727L / 9H1727R | | 2H17YB27LX / 2H17YB27RX |
| 28 | 9H1728L / 9H1728R | 4-8 | 2H17YB28LX / 2H17YB28RX |

* X – Category

▶ To order assembled foot (1H17YB26R5) size 26, right, stiffness category 5, choose the shell 9H1726R and the foot 2H17Y26R5.

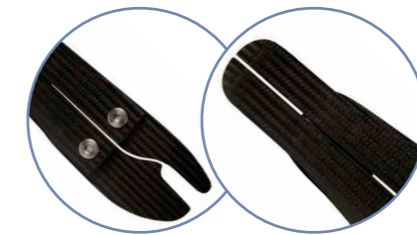
FEATURES



Removable anatomical shell with sandal toe 9H17.



Carbon foot without shell in the right and left versions 2H17YB.



Split toe and heel for stability on uneven surface.



Lid for fixing prosthesis cover.



2H16Y

M1 M2 M3 80 kg 100 kg 125 kg

CARBON FOOT WITH HYDRAULIC ANKLE



Carbon Foot is intended for patients with M1–M3 activity level unilateral or bilateral transfemoral amputation at all levels or transtibial amputation on the boundary of the upper, medium and lower-third of it, can be used in prostheses after the disarticulation of the knee or hip joint.

The foot is produced in right and left versions in 5 categories of stiffness that are selected depending on the patient's weight from 55 kg to 125 kg.

FEATURES:

- ▶ Adaptation of the hydraulic system of the prosthesis to the surface while walking.
- ▶ Independent plantar (PF) and dorsiflexion (DF) adjustment.
- ▶ Hydraulic system lock for use at low and negative ambient temperatures, for ease of driving a bicycle, motorcycle, car, and changing the heel height of the the foot.
- ▶ Accumulation and return of energy by elastic elements of the foot.
- ▶ Response proportional to the patient weight and activity level.
- ▶ Reliance on the entire surface of the foot.
- ▶ Soft contact with the surface when stepping on the heel and smooth rollover.

FOOT SELECTION

| Size | Footshell | Category | Carbon foot with adjustable heel height | WEIGHT recommended, kg | Maximum weight of amputee, kg |
|------|-------------------|----------|---|------------------------|-------------------------------|
| 24 | 9HO224L / 9HO224R | 2 | 2H16Y24252 | 55–65 | 80 |
| | | 3 | 2H16Y24253 | 65–72 | 80 |
| 25 | 9HO225L / 9HO225R | 4 | 2H16Y24254 | 72–80 | 80 |
| | | 5 | 2H16Y24255 | 80–100 | 100 |
| 26 | 9HO226L / 9HO226R | 2 | 2H16Y26282 | 55–65 | 80 |
| | | 3 | 2H16Y26283 | 65–72 | 80 |
| 27 | 9HO227L / 9HO227R | 4 | 2H16Y26284 | 72–80 | 80 |
| | | 5 | 2H16Y26285 | 80–100 | 100 |
| 28 | 9HO228L / 9HO228R | 6 | 2H16Y26286 | 100–125 | 125 |

▶ To order assembled foot (1H15Y26R5) size 26, right, category 5, choose footshell 9H1526R and foot 2H15Y26R5.

TECHNICAL CHARACTERISTICS

| Size | 24 | 25 | 26 | 27 | 28 |
|--|-------------------|----|----|----|----|
| Heel height, mm | 10 | | | | |
| Weight of foot with ankle (for 26 size), g | ~1000 | | | | |
| Angular range | 6° PF / 3° DF | | | | |
| Building height, mm | 122 | | | | |
| Socket adapter adjustment range | Up to ±7,5° | | | | |
| Temperature range with unlocked hydraulic system | От -10°C до +40°C | | | | |

FEATURES



9HO2 Removable anatomical cosmetic footshell.



Plantar flexion adjustment.



Dorsal flexion adjustment.



Polyurethane stop.

2H08

M1 M2 M3 100 kg 125 kg 150 kg

HYDRAULIC ADAPTER FOR HEEL HEIGHT ADJUSTMENT



The hydraulic adapter 2H08 is designed for smooth heel height adjusting in the prosthesis.

SPECIFICATIONS

| | |
|-------------------------------|---------------|
| Activity level | 2-3 |
| Max. user weight | 100 kg |
| Build height | 75 mm |
| Weight | 360 g |
| Applicable in foot sizes | 22-30 |
| Range of heel high adjustment | 0-40 mm* |
| Lifetime | 3 years |
| Temperature range | -25 ... +40°C |
| Adjustment range | Up to +7.5° |

* Depending on foot size.

FEATURES



Button for opening the hydraulic system with protection against accidental pressing.



Button for closing the hydraulic system.



Adapter in a position without a heel.



Adapter in a heel position.



FEET

COMPONENTS FOR LOWER LIMB PROSTHESIS



6H01

M1 M2 M3 100 kg 125 kg 150 kg

POLYCENTRIC KNEE JOINT



Polycentric Knee Joint 6H01 is intended for patients with low and moderate activity. The joint is used in hip prostheses for patients with above the knee amputations, including transfemoral disarticulation. The kinematics of joint allows to achieve a functional shortening of the prosthesis in the swing phase.

Adjustable flexion — extension assist improves control of swing phase. Ball bearings used in the knee joint do not require maintenance and ensure high reliability and increasing resource of knee joint.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|-----------------|-----------|
| 6H01T | 100 | 135 | Titanium alloy | 483 |
| 6H01C | 125 | 135 | Stainless steel | 685 |

FEATURES



Ball bearings on all axes do not require maintenance and allow increasing high reliability resource.



Adjustable stability in stance phase.



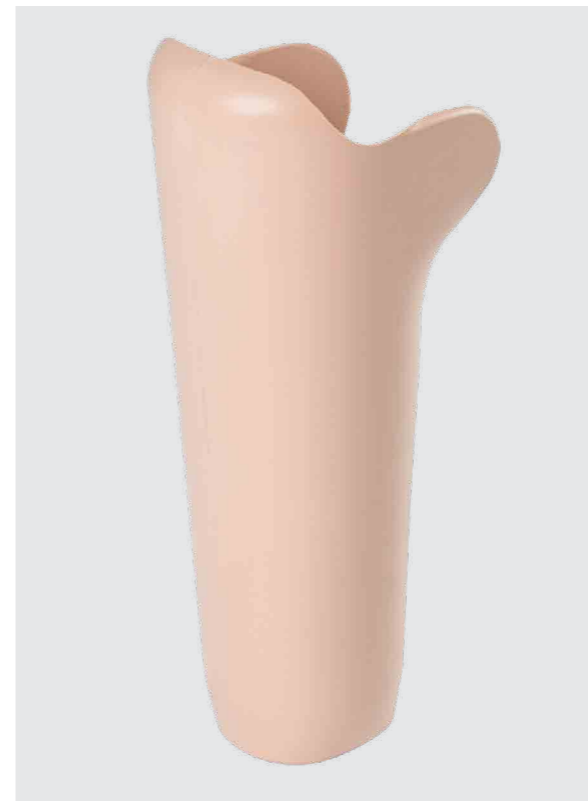
Adjustable extension assist.



6H02

M1 M2 M3 100 kg 125 kg 150 kg

SINGLE AXIS FRICTION KNEE



Single Axis Friction Knee Joint 6H02 is intended for patients with low and moderate activity, unilateral and bilateral amputations or disorder of support function of retained lower limb.

At angles of flexion up to 15 ° the further flexion of joint is blocked under the load that provides a secure stance phase. The joint is fully released when unloaded, wherein the joint becomes movable again. There is an adjustable extension assist with weight 60 g.

Friction bearings of modern polymer material used in the knee joint provide the smoothness and compensate side play.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|-----------------|-----------|
| 6H02T | 100 | 120 | Titanium alloy | 480 |
| 6H02C | 125 | 120 | Stainless steel | 680 |

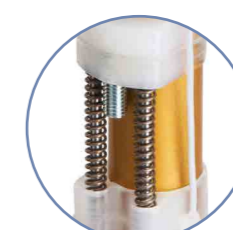
FEATURES



Comes assembled.



Adjustable response on vertical load.



Adjustable extension assist.



Polymeric friction bearing between shell and body.



6HO2A

M1 M2 M3 100 kg 125 kg 150 kg

SINGLE AXIS KNEE JOINT



Single Axis Knee Joint 6HO2A is intended for patients with low and moderate activity, unilateral and bilateral amputations at any level except of articulation in the knee joint.

Knee Joint 6HO2A provides a secure stance phase with forced fixation if required.

There is a built-in adjustable extension assist. The adjustment of the knee joint and extension assist does not require disassembly of the prosthesis.

SPECIFICATIONS

| | |
|-----------------------|----------------|
| Material | Aluminum alloy |
| Maximum flexion angle | 130° |
| Weight | 520 g |
| Lifetime | 3 years |
| Temperature range | -40 ... +40°C |

FEATURES



Flexion angle 130°.



Embedded adjustable extension assist.



Adjustment screw.



6HO6A

M1 M2 M3 100 kg 125 kg 150 kg

SINGLE AXIS KNEE JOINT WITH LOCK



Single Axis Knee Joint with Lock 6HO6A is intended for patients with low activity and maximum weight 125 kg, unilateral or bilateral amputations at any levels except of knee disarticulation.

The joint is provided with a locking device that locks the joint in extreme extended position thus ensuring a total secure at stance phase. Design of the joint eliminates backlash during operation due to design solution protected by patent of Russian Federation.

Flexible cable of the lock can be mounted on either the right or left side of the joint.

The joint is available in versions with the pyramid 6HO6A1 and clamp for a tube of 30 mm diameter 6HO6A3.

FEATURES



Version with the pyramid.



Version with clamp for a tube.

Can be used without installation of unlocking cable.

Design of joint eliminates backlashes during operation.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|----------------|-----------|
| 6HO6A1 | 125 | 120 | Aluminum alloy | 305 |
| 6HO6A3 | 125 | 120 | Aluminum alloy | 295 |



6H09A

M1 M2 M3 100 kg 125 kg 150 kg

POLYCENTRIC KNEE JOINT



Polycentric Knee Joint 6H09A is intended for patients with low or moderate level activity. The joint is used in hip prosthesis for transfemoral amputation, including transfemoral disarticulation.

Maintenance-free needle bearings used on all axes of joint ensure high reliability and increasing resource of knee joint.

The kinematics of the joint allows functional shortening of prosthesis up to 15 mm during swing phase. Knee Joint 6H09A has adjustable extension assist.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|----------------|-----------|
| 6H09A | 100 | 135 | Aluminum alloy | 420 |

FEATURES:



Needle bearings.



Adjustable security in stance phase.



Adjustable extension assist. Minimum weight in class — only 460 g.

The body without plastic elements allows to lean on the joint.

6H23

M1 M2 M3 100 kg 125 kg 150 kg

POLYCENTRIC PNEUMATIC KNEE JOINT



Polycentric Pneumatic Knee Joint 6H23 is intended for patients with moderate activity level, unilateral or bilateral transfemoral amputations at any level with the exception of knee joint disarticulation. The Knee Joint 6H23 provides pneumatic swing phase control and independent flexion / extension adjustment. The Joint 6H23 is well adaptive to changes in walking tempo in the extended range speeds — from slow to rapid step without changing the initial settings.

Polycentric design ensures increased security in the stance phase and geometric shortening in the swing phase, increasing the distance from the base surface during swing phase that enhances the confidence of patient in the prosthesis.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|----------------|-----------|
| 6H23 | 100 | 150 | Aluminum alloy | 780 |

FEATURES:

- ▶ Duel chamber pneumatic damper with separate damping chambers of flexion / extension.
- ▶ Adaptive to changes in walking tempo.
- ▶ Increased security in stance phase.



Independent flexion / extension adjustment.



Large flexion angle.



Screwdriver is included in the set.





6H25 / 6H25PRO
6H25ST / 6H25STPRO

M1 M2 M3 100 kg 125 kg 150 kg

POLYCENTRIC PNEUMATIC KNEE JOINT



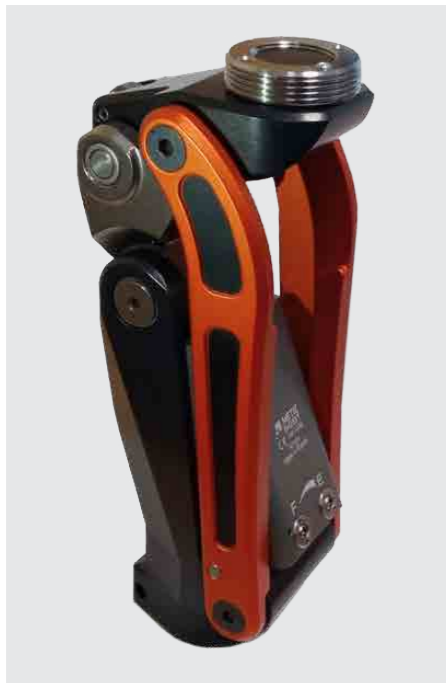
Knee joints polycentric pneumatic 6H25/6H25PRO and 6H25ST/6H25STPRO are designed for patients with weight up to 125 kg with unilateral or bilateral transfemoral amputation at any level, including disarticulation of the knee joint.

Knee joints provide increased safety in the stance phase, adaptation to changes in walking speed, the knees are recommended for patients with moderate to high activity levels.

6H25PRO/6H25STPRO knee joints incorporate an additional extension assist device 6H25AE that helps to straighten the knee joints into a closed position, increasing safety and comfort while walking.

Additional extension assist 6H25AE can be purchased separately and installed in 6H25 / 6H25ST knee joints.

Knee joints have independent adjustments for flexion/extension resistance and extension assist.



The polycentric design ensures shortening of the prosthesis in the swing phase. Geometric locking of the knee joints ensure safety in the stance phase. Opening of knee joints occurs only when resting on the toe at the end of the stance phase.

TECHNICAL CHARACTERISTICS

| | 6H25 | 6H25ST | 6H25ST | 6H25STPRO |
|-----------------------------|-------------------|--------|----------------|-----------|
| Material | Алюминиевый сплав | | | |
| Weight, g | 875 | 905 | 860 | 890 |
| Max. user weight, kg | 125 | | | |
| GOST R ISO 10328 load level | P6 | | | |
| Building height, mm | 158 | | 153 | |
| Knee flexion | 150° | | | |
| Temperature range | -30 до +40°C | | | |
| Proximal connection | Pyramid | | Thread M36x1,5 | |
| Distal connection | Bushing Ø30 mm | | | |

FEATURES



Flexion angle 150°.



Easy access to adjustments of flexion and extension.



Plates for adjusting of the geometric lock are included in the set.



Screwdriver is included in the set.

6H30B

M1 M2 M3 M4 100 kg 125 kg 150 kg

HYDRAULIC KNEE JOINT

NEW



Hydraulic knee joint 6H30B is intended for patients with weight no more than 125 kg with unilateral or bilateral transfemoral amputation at any level, including disarticulation of the knee joint. The knee is recommended for patients with a high level of activity.

6H30B hydraulic knee joint is water resistant knee with a mechanical lock in the extended position for patient's safety that is especially important for use in the aquatic environment.

The hydraulic knee joint is a monocentric knee with a rotary hydraulic system that controls the swing phase and provides a support in the stance phase due to high flexion resistance.

Walking down stairs and on inclines is effectively supported by the hydraulic system with closely approximating to the physiological gait pattern. Flexion and extension resistance can be adjusted independently.

If necessary, the force of the extension assist can be increased by installing an additional spring that is included in the delivery set.

TECHNICAL CHARACTERISTICS

| | |
|------------------------|----------------|
| Material | Aluminum alloy |
| Weight, kg | 1,2 |
| Max. weight of patient | 125 |
| Total height, mm | 233 |
| Build height, mm | 176 |
| Knee flexion | 150° |
| Proximal connection | Pyramid |
| Distal connection | Bushing 30 mm |
| Temperature range, °C | - 10 ... + 40 |

FEATURES



Knee flexion 150°



Easy access to adjustments of: flexion extension



Trigger threshold adjustment.



Stance phase damping adjustment.



Extension assist can be increased by installing an additional spring.



Mechanical lock for patient safety





1H02B

M1 M2 M3 100 kg 125 kg 150 kg

SACH FOOT



SACH Foot 1H02B is designed for waterproof prosthesis for patients with unilateral or bilateral transfemoral amputation at all levels or transtibial amputation. Can be used in prostheses after the disarticulation of the knee or hip joint.

1H02B Foot has a plastic embedded insert in the forefoot, which ensures its elasticity and durability. The foot is supplied assembled with foot adapter.

TECHNICAL CHARACTERISTICS

| Foot size | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---------------|----------|----------|----------|----------|----------|----------|
| Length, mm | 220 | 230 | 240 | 250 | 260 | 270 | 280 |
| Weight of foot with adapter, g | 478 ± 20 | 493 ± 20 | 508 ± 20 | 578 ± 20 | 613 ± 20 | 693 ± 20 | 708 ± 20 |
| Building height | 94 mm | | | | | | |
| Heel height, mm | 0 mm | | | | | | |
| The range of adjustment relative to their neutral position in the prosthesis in the frontal and sagittal planes | Up to ±7,5° | | | | | | |
| Temperature range | -40 ... +40°C | | | | | | |
| Lifetime | 2 года | | | | | | |

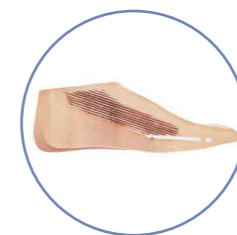
FEATURES



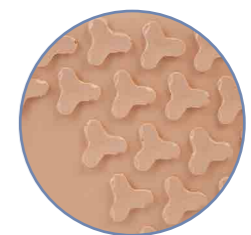
Delivered assembled with adapter.



Anatomic cosmetic shell with separated toe.



Plastic embedded element in the forefoot.



Anti-slip sole protector.



WATERPROOF LINE

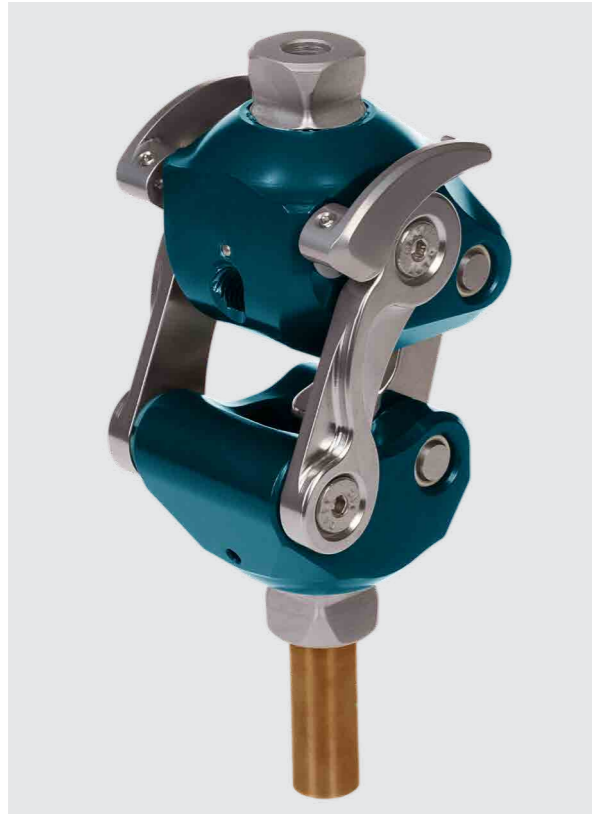
COMPONENTS FOR LOWER LIMB PROSTHESIS



6H09B

M1 M2 M3 100 kg 125 kg 150 kg

POLYCENTRIC KNEE JOINT



Single Axis Pneumatic Knee Joint 6H29 with weight activated stance control offers a safe and smooth gait for moderately and highly active users.

Pneumatic swing phase control with extension assist and independent flexion / extension adjustment may be set from regular to dynamic walking pace in the range up to 6 km/hour.

At the last 10° to full extension pneumatic damper has an additional feature that allows to reduce an angular rate and prevent an impact in extension phase.

TECHNICAL CHARACTERISTICS

| Reference | Maximum Weight of patient, kg | Maximum flexion angle, (degree) | Material | Weight, g |
|-----------|-------------------------------|---------------------------------|----------------|-----------|
| 6H09B | 125 | 135 | Aluminum alloy | 480 |

FEATURES



Flexion angle 135°



Lock is opened.



Lock is closed.

WATERPROOF ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|---------------------------------|-----------------|------------------|-----------|----------------------------|-------|
| 4H01BC | Female Pyramid Tube Clamp | Stainless steel | 16 | 138 | 125 | |
| 4H01BT | Female Pyramid Tube Clamp | Titanium | 16 | 87 | 125 | |
| 4H02BC | Male Pyramid Tube Clamp | Stainless steel | 4 | 127 | 125 | |
| 4H02BT | Male Pyramid Tube Clamp | Titanium | 4 | 77 | 125 | |
| 4H11BC | Female Pyramid Insert For Prong | Stainless steel | 14 | 89 | 125 | |
| 4H11BT | Female Pyramid Insert For Prong | Titanium | 14 | 59 | 125 | |
| 4H12BC | Male Pyramid Insert For Prong | Stainless steel | 5 | 84 | 125 | |
| 4H12BT | Male Pyramid Insert For Prong | Titanium | 5 | 49 | 125 | |





WATERPROOF TUBE ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------|-----------------|------------------|-----------|----------------------------|---|
| 3H01BC400 | Tube adapter, 400 mm | Stainless steel | 416 | 381 | 125 |  |
| 3H01BT400 | Tube adapter, 400 mm | Titanium | 416 | 341 | 125 |  |

WATERPROOF SOCKET ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-----------------------------|-----------------|------------------|-----------|----------------------------|---|
| 8H01BC | 3 Prong Socket Male Adapter | Stainless steel | 12 | 160 | 125 |  |
| 8H02BC | 4 Prong Socket Adapter | Stainless steel | 10 | 92 | 125 |  |

WATERPROOF SOCKET ADAPTERS ROTATABLE

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|--|-----------------------------|------------------|-----------|----------------------------|---|
| 8H04BC | 3 Prong Socket Female Adapter, rotatable | Stainless steel | 26 | 210 | 125 |  |
| 8H05BC | 3 Prong Socket Male Adapter, rotatable | Aluminum Stainless steel | 16 | 200 | 125 |  |





7H05A

M1 M2 M3 M4 100 kg 125 kg 150 kg

PYRAMID ADAPTER LOCK



Lock 7H05A is intended for use in tibia and femur prosthesis in conjunction with a silicone liner, which is threaded pin of lock. The lock allows automatic fixation. Release of pin occurs when pressing the spring-loaded button of lock. By turning the lock button is carried out fixation of pin that allows eliminating piston-movement and clicking sounds.

The device has a sphere with pyramid for connection with bearing module and prong steel base for connection with socket.

TECHNICAL CHARACTERISTICS

| Material | Maximum weight of patient, kg | Radius of sphere base, mm | Internal diameter of prongs, mm | Weight, g |
|----------------|-------------------------------|---------------------------|---------------------------------|-----------|
| Aluminum alloy | 100 | 50 | 97 | 340 |

FEATURES



Button of lock is knurled for convenient pin release.



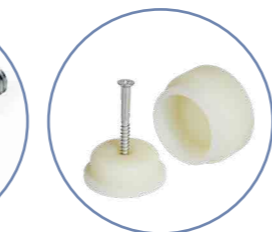
Bushing of high strength steel increases durability of lock.



Flexible alloy provides an easy fit to the shape of mold. Round holes facilitate assembly with a fitting socket.



Pin with 12 divisions.



Plugs for lamination are included.



7H07A

M1 M2 M3 M4 100 kg 125 kg 150 kg

LOCK WITH STAPLES LOCKING



Lock 7H07A is intended for use in tibia prosthesis with long stamp and hip prosthesis for conjunction with a silicone liner. The lock allows automatic fixation. Release of pin occurs when pressing the spring-loaded button of lock.

SPECIFICATIONS

| | |
|-------------------|----------------|
| Material | Aluminum alloy |
| Activity level | 1-4 |
| Max. user weight | 100 kg |
| Build height | 45 mm |
| Weight | 304 g |
| Lifetime | 3 years |
| Temperature range | -40 ... +40°C |

FEATURES



Button of lock is knurled for convenient pin release.



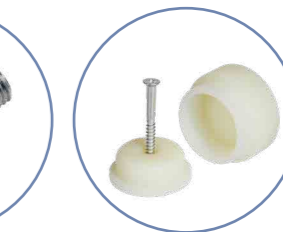
Bushing of high strength steel increases durability of lock.



Flexible alloy provides an easy fit to the shape of mold. Round holes facilitate assembly with a fitting socket.



Short pin with 6 divisions.



Plugs for lamination are included.



7H08A

M1 M2 M3 M4 100 kg 125 kg 150 kg

HOLE LOCK



Lock 7H08A is intended for use in tibia (including for the manufacture of sockets according to express prosthetics technology) and femur prosthesis.

The principle of locking is the same as for the lock 7H 05A. Consists of an insert with a hemisphere and an area under 4 holes (installed on plaster positive before lamination or thermoforming) and the lock case (installed during assembly of the prosthesis on the outside of the socket). In the distal part of the lock there are holes for mounting adapter — 7H01, 7H02, or 7H03. Complete with 8 steel screws, plastic cone and screw for locking an insert on the positive.

RECOMMENDED ADAPTERS



▶ 8H16A — 4 Hole Socket Adapter for laminating and thermoforming.

INDICATIONS

| Material | Maximum weight of patient, kg | Weight, g |
|----------------|-------------------------------|-----------|
| Aluminum alloy | 125 | 175 |

FEATURES



Button of lock is knurled for convenient pin release.

Easy installation and dismantling in the socket.



Does not require a perfect alignment of liner pin.

Bushing of high strength steel increases durability of locking device.



Pin with 12 divisions



7H09A

M1 M2 M3 M4 100 kg 125 kg 150 kg

SHUTTLE LOCK



Shuttle Lock 7H09A is intended for tibia and hip prosthesis for conjunction with a silicone liner. The lock allows automatic fixation. The pin is unlocked by pressing the spring-loaded lock button.

The lock pin is pulled up by turning the lock button, allowing to eliminate pin motion along the axis and clicking sounds.

There is a lamination kit.

SPECIFICATIONS

| | |
|-------------------|----------------|
| Material | Aluminum alloy |
| Activity level | 1–4 |
| Weight | 111 g |
| Lifetime | 3 years |
| Temperature range | -40 ... +40°C |

FEATURES



Button of lock is knurled for convenient pin release.



Bushing of high strength steel increases durability of lock.

Does not require an ideal centering of pin.



Plugs for lamination are included in the set.



Pin with 12 divisions.



7H10 / 7H10ST

M1 M2 M3 100 kg 125 kg 150 kg

ABOVE KNEE ROTATION ADAPTER



Above knee rotation adapter allows to rotate prosthetic tibia in or out of socket providing the convenience when driving or other activities. It is intended for the patients with weight up to 100 kg. The design ensures backlash-free operation making it «invisible» for user. The adapter is locked automatically when returning to the starting position.

For connection with other components of the prosthesis, the adapter has a pyramid in the version 7H10 or a thread in the version 7H10ST.

SPECIFICATIONS

| Part number | 7H10 | 7H10 ST |
|-----------------------------|---------------------|----------------|
| Material | Titanium | |
| Weight, g | 210 | 216 |
| Max. user weight, kg | 125 | |
| Building height, mm | 30,4 | 31,9 |
| Lifetime | 3 years | |
| Temperature range | -40 ... +40°C | |
| Range of angular adjustment | From -7.5° to +7.5° | |
| Proximal connection | Pyramid | Thread M36x1,5 |

4H26A / 4H27AC / 4H28A

M1 M2 M3 M4 100 kg 125 kg 150 kg

SLIDING ADAPTERS



Sliding adapter is intended for use in femoral prostheses above the knee to create the optimum design and allow the fine adjustment of socket position by gradually moving along an arc in the sagittal plane in the range of adjustment up to 4°. The position of the socket can be further adjusted.

TECHNICAL CHARACTERISTICS

| | 4H26A | 4H27AC | 4H28A |
|---|----------------|----------------------------|----------------|
| Maximum patient weight, kg | 150 | | |
| Material of main body | Aluminum alloy | | |
| Material of the bushings (insert) | Aluminum alloy | Corrosion resistance steel | Aluminum alloy |
| Weight of the adapter, g | 165 | 233 | 233 |
| Building height, mm | 18 | 24 | 48 |
| The adjustment range for the angle between the axes of the bushings and axis of the threads | 5 till 9° | 3 till 9° | |



4H24

M1 M2 M3 100 kg 125 kg 150 kg

ADJUSTABLE ADAPTER



Adjustable adapter is used for accurate and repeated adjustment.

Allows to displace the clamp 1 relative to the clamp 2 from the center position in one or the other side up to 11 mm, both parallel and perpendicular to the sagittal plane.

Due to the angular adjustment may shift in either direction up to 7,5°

SPECIFICATIONS

| | 4H24T | 4H24C |
|---|---------------|--------|
| Activity level | 1-4 | |
| Max. user weight | 150 KG | 125 KG |
| Build height | 39 mm | |
| Range displacement of the upper clamp | Up to ± 11 mm | |
| The range of angular adjustment of upper clamp in the frontal and sagittal planes | Up to ± 7,5° | |
| Weight | 201 g | 331 g |
| Temperature range | -40 ... +40°C | |

4H25

M1 M2 M3 100 kg 125 kg 150 kg

ADJUSTABLE ADAPTER



Adjustable adapter is used for accurate and repeated adjustment.

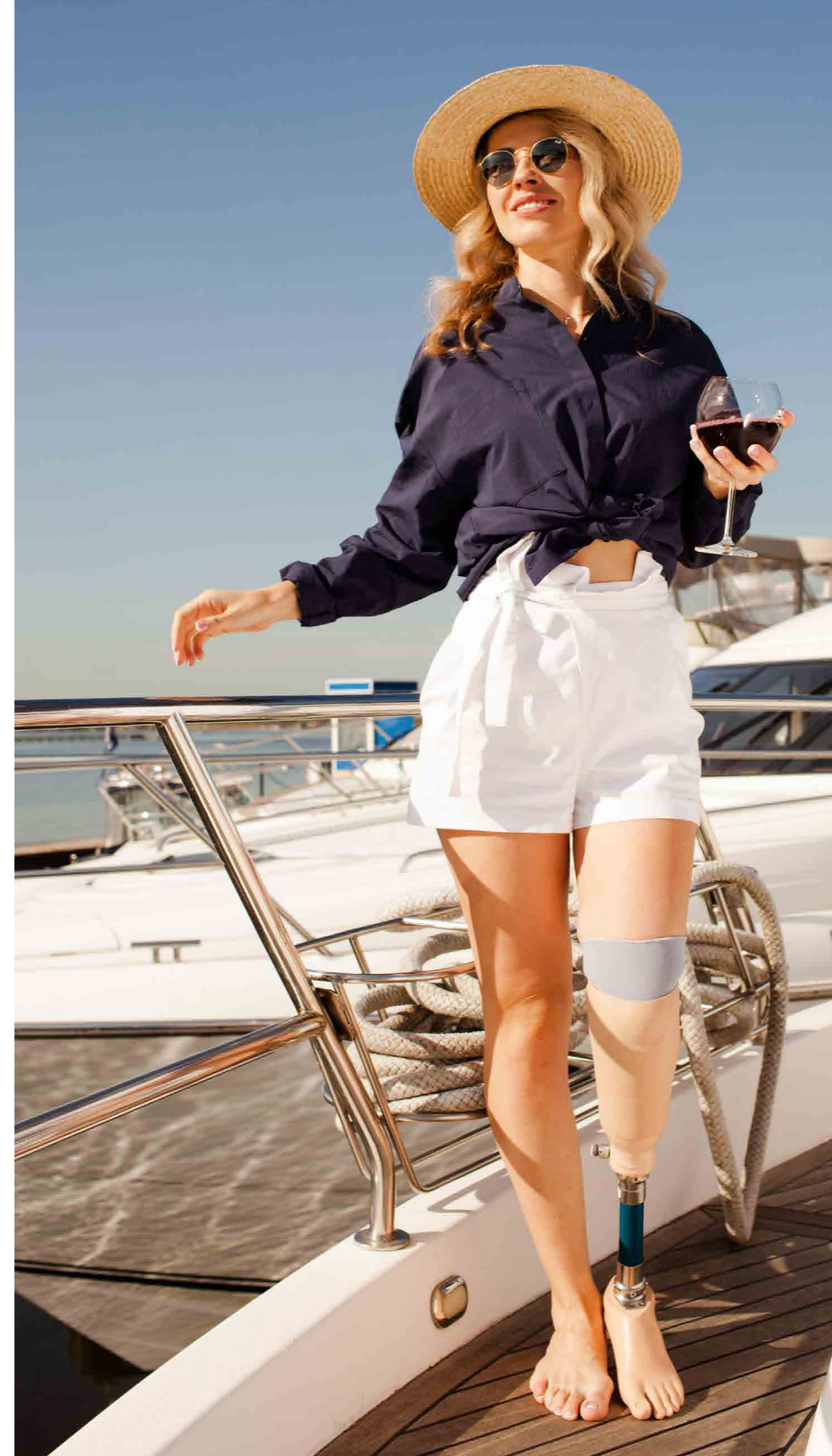
Allows to displace the clamp 1 relative to the clamp 2 from the center position in one or the other side up to 11 mm, both parallel and perpendicular to the sagittal plane.

Due to the angular adjustment may shift in either direction up to 7,5°

SPECIFICATIONS

| | 4H25T | 4H25C |
|---|---------------|--------|
| Activity level | 1-4 | |
| Max. user weight | 150 KG | 125 KG |
| Build height | 35 mm | |
| Range displacement of the upper clamp | Up to ± 11 mm | |
| The range of angular adjustment of upper clamp in the frontal and sagittal planes | Up to ± 7,5° | |
| Weight | 201 g | 327 g |
| Temperature range | -40 ... +40°C | |

ADAPTERS FOR PATIENTS UP TO 100 KG











FOOT ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-------------------|----------|------------------|-----------|----------------------------|---|
| 2H01AC | SACH Foot Adapter | aluminum | 8 | 117 | 100 |  |

TUBE ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------|-----------------|------------------|-----------|----------------------------|---|
| 3H01A200 | Tube adapter, 200 mm | Aluminum | 219 | 168 | 100 |  |
| 3H01A400 | Tube adapter, 400 mm | Aluminum | 419 | 269 | 100 |  |
| 3H01C200 | Tube adapter, 200 mm | Stainless steel | 216 | 206 | 100 |  |
| 3H01C400 | Tube adapter, 400 mm | Stainless steel | 416 | 300 | 100 |  |
| 3H01T200 | Tube adapter, 200 mm | Titanium | 216 | 168 | 100 |  |
| 3H01T400 | Tube adapter, 400 mm | Titanium | 416 | 264 | 100 |  |

ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|------------------------------|----------|------------------|-----------|----------------------------|---|
| 4H01AK | Female Pyramid Tube Clamp | Aluminum | 19 | 82 | 100 |  |
| 4H02ACK | Male Pyramid Tube Clamp | Aluminum | 9 | 92 | 100 |  |
| 4H04A35 | Female Double Adapter, 35 mm | Aluminum | 35 | 84 | 100 |  |
| 4H04A45 | Female Double Adapter, 45 mm | Aluminum | 45 | 101 | 100 |  |
| 4H04A60 | Female Double Adapter, 60 mm | Aluminum | 60 | 111 | 100 |  |
| 4H04A75 | Female Double Adapter, 75 mm | Aluminum | 75 | 122 | 100 |  |
| 4H04A90 | Female Double Adapter, 90 mm | Aluminum | 90 | 132 | 100 |  |





4 HOLE SOCKET ADAPTERS EUROPEAN SIZE OF AXLE DISTANCE FOR FITMENT HOLES (36 MM)

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------------------|-----------------------------|------------------|-----------|----------------------------|-------|
| 7H01A | 4 Hole Female Pyramid, rotatable | Aluminum | 24 | 101 | 100 | |
| 7H02A | 4 Hole Male Pyramid, rotatable | Aluminum | 14 | 117 | 100 | |
| 7H03AC | 4 Hole Male Pyramid | Aluminum Stainless steel | 10 | 88 | 100 | |
| 7H03AT | 4 Hole Male Pyramid | Aluminum Titanium | 10 | 73 | 100 | |
| 7H11A | 4 Hole Male Pyramid | Aluminum | 15 | 65 | 100 | |
| 7H13A | 4 Hole Adapter | Aluminum | 10 | 55 | 100 | |
| 8H15A | 4 Hole Socket Adapter | Aluminum Stainless steel | 7 | 54 | 100 | |

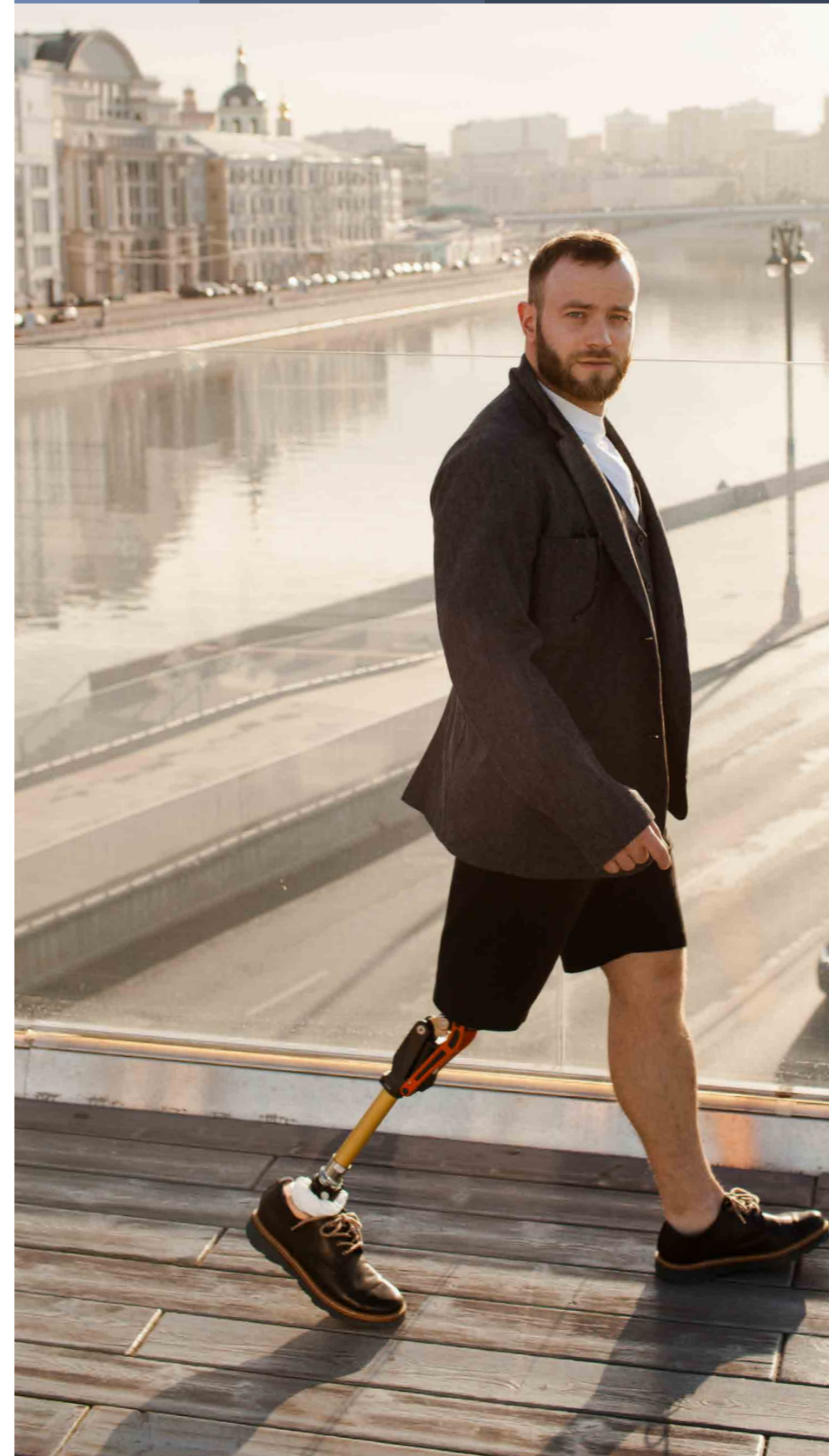
SOCKET ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|------------------------|-----------------------------|------------------|-----------|----------------------------|-------|
| 8H02AC | 4 Prong Socket Adapter | Aluminum Stainless steel | 9 | 73 | 100 | |
| 8H02AT | 4 Prong Socket Adapter | Aluminum Titanium | 9 | 62 | 100 | |

SOCKET ADAPTERS ROTATABLE

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|---|-----------------------------|------------------|-----------|----------------------------|-------|
| 8H04CA | 3 Prong Socket Female Adapter, rotatable | Aluminum Stainless steel | 26 | 163 | 100 | |
| 8H04CA65 | 3 Prong Socket Female Adapter with Long Thread, rotatable | Aluminum Stainless steel | 40 | 285 | 100 | |
| 8H05AC | 3 Prong Socket Male Adapter, rotatable | Aluminum Stainless steel | 16 | 185 | 100 | |

ADAPTERS FOR PATIENTS UP TO 125 KG





FOOT ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-------------------|-----------------|------------------|-----------|----------------------------|---|
| 2H01C | SACH Foot Adapter | Stainless steel | 8 | 133 | 125 |  |

TUBE ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------|-----------------|------------------|-----------|----------------------------|---|
| 3H02C200 | Tube adapter, 200 mm | Stainless steel | 216 | 320 | 125 |  |
| 3H02C400 | Tube adapter, 400 mm | Stainless steel | 416 | 502 | 125 |  |

ADAPTERS




| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|------------------------------|-----------------|------------------|-----------|----------------------------|---|
| 4H01C | Female Pyramid Tube Clamp | Stainless steel | 16 | 138 | 125 |  |
| 4H02C | Male Pyramid Tube Clamp | Stainless steel | 4 | 127 | 125 |  |
| 4H03C | Male-Female Double Adapter | Stainless steel | 37 | 140 | 125 |  |
| 4H04C35 | Female Double Adapter, 35 mm | Stainless steel | 35 | 135 | 125 |  |



| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|--|-----------------|------------------|-----------|----------------------------|---|
| 4H04C45 | Female Double Adapter, 45 mm | Stainless steel | 45 | 146 | 125 |  |
| 4H04C60 | Female Double Adapter, 60 mm | Stainless steel | 60 | 164 | 125 |  |
| 4H04C75 | Female Double Adapter, 75 mm | Stainless steel | 75 | 181 | 125 |  |
| 4H04C90 | Female Double Adapter, 90 mm | Stainless steel | 90 | 197 | 125 |  |
| 4H11C | Female Pyramid Insert For Prong | Stainless steel | 14 | 98 | 125 |  |
| 4H12C | Male Pyramid Insert For Prong | Stainless steel | 5 | 84 | 125 |  |
| 4H13C | Female Pyramid Insert For Prong | Stainless steel | 0 | 59 | 125 |  |
| 4H14C | Male-Female Double Offset Adapter | Stainless steel | 28 | 179 | 125 |  |
| 4H16C | Shift Adapter | Stainless steel | 60 | 357 | 125 |  |
| 4H17C | Female Pyra-mid Tube Clamp adjust-able adapter with height adjustment range – 30 mm for patients up to 125 kg, stainless steel | Stainless steel | 16..46 | 170 | 125 |  |



4 HOLE SOCKET ADAPTERS EUROPEAN SIZE OF AXLE DISTANCE FOR FITMENT HOLES (36 MM)






| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------------------|-----------------|------------------|-----------|----------------------------|---|
| 7H01C | 4 Hole Female Pyramid, rotatable | Stainless steel | 24 | 186 | 125 |  |
| 7H02C | 4 Hole Male Pyramid, rotatable | Stainless steel | 15 | 168 | 125 |  |
| 7H03C | 4 Hole Male Pyramid | Stainless steel | 8 | 103 | 125 |  |

SOCKET ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-----------------------------|-----------------|------------------|-----------|----------------------------|---|
| 8H01C | 3 Prong Socket Male Adapter | Stainless steel | 12 | 151 | 125 |  |
| 8H02C | 4 Prong Socket Adapter | Stainless steel | 10 | 92 | 125 |  |
| 8H16A | 4 Hole Socket Adapter | Aluminum | 20 | 90 | 125 |  |



SOCKET ADAPTERS ROTATABLE

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|--|-----------------------------|------------------|-----------|----------------------------|---|
| 8H04CT | 3 Prong Socket Female Adapter, rotatable | Stainless steel Titanium | 26 | 182 | 125 |  |
| 8H04C | 3 Prong Socket Female Adapter, rotatable | Stainless steel | 26 | 210 | 125 |  |
| 8H05CT | 3 Prong Socket Male Adapter, rotatable | Stainless steel Titanium | 16 | 173 | 125 |  |
| 8H05C | 3 Prong Socket Male Adapter, rotatable | Stainless steel | 16 | 210 | 125 |  |
| 8H18C | 3 Prong Socket Female Adapter, rotatable | Stainless steel | 12 | 124 | 125 |  |



ADAPTERS FOR PATIENTS UP TO 150 KG








FOOT ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-------------------|----------|------------------|-----------|----------------------------|---|
| 2H01T | SACH Foot Adapter | Titanium | 8 | 107 | 150 |  |

TUBE ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|----------------------|----------|------------------|-----------|----------------------------|---|
| 3H02T200 | Tube adapter, 200 mm | Titanium | 216 | 270 | 150 |  |
| 3H02T400 | Tube adapter, 400 mm | Titanium | 416 | 452 | 150 |  |

ADAPTERS

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|------------------------------|----------|------------------|-----------|----------------------------|---|
| 4H01T | Female Pyramid Tube Clamp | Titanium | 16 | 87 | 150 |  |
| 4H02T | Male Pyramid Tube Clamp | Titanium | 4 | 77 | 150 |  |
| 4H03T | Male-Female Double Adapter | Titanium | 37 | 89 | 150 |  |
| 4H04T35 | Female Double Adapter, 35 mm | Titanium | 35 | 90 | 150 |  |
| 4H04T45 | Female Double Adapter, 45 mm | Titanium | 45 | 97 | 150 |  |



ADAPTERS FOR PATIENTS UP TO 150 KG

COMPONENTS FOR LOWER LIMB PROSTHESIS



| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-----------------------------------|----------|------------------|-----------|----------------------------|---|
| 4HO4T60 | Female Double Adapter, 60 mm | Titanium | 60 | 107 | 150 |  |
| 4HO4T75 | Female Double Adapter, 75 mm | Titanium | 75 | 117 | 150 |  |
| 4HO4T90 | Female Double Adapter, 90 mm | Titanium | 90 | 127 | 150 |  |
| 4HO6T50 | Male Single Adapter Short, 50 mm | Titanium | 35 | 67 | 150 |  |
| 4HO6T77 | Male Single Adapter Long, 77 mm | Titanium | 63 | 107 | 150 |  |
| 4HO7T | Female Single Adapter, 100 mm | Titanium | 100 | 122 | 150 |  |
| 4H11T | Female Pyramid Insert For Prong | Titanium | 14 | 59 | 150 |  |
| 4H12T | Male Pyramid Insert For Prong | Titanium | 5 | 49 | 150 |  |
| 4H13T | Female Pyramid Insert For Prong | Titanium | 0 | 37 | 150 |  |
| 4H14T | Male-Female Double Offset Adapter | Titanium | 28 | 122 | 150 |  |
| 4H15T | Male Double Adapter | Titanium | 12 | 98 | 150 |  |
| 4H16T | Shift Adapter | Titanium | 60 | 226 | 150 |  |

4 HOLE SOCKET ADAPTERS EUROPEAN SIZE OF AXLE DISTANCE FOR FITMENT HOLES (36 MM)

| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|--------------------------------------|----------|------------------|-----------|----------------------------|---|
| 7HO1T | 4 Hole Female Pyramid, rotatable | Titanium | 24 | 125 | 150 |  |
| 7HO2T | 4 Hole Male Pyramid, rotatable | Titanium | 15 | 112 | 150 |  |
| 7HO3T | 4 Hole Male Pyramid | Titanium | 8 | 66 | 150 |  |
| 7HO6T | 4 Hole Male Pyramid with 8 mm Offset | Titanium | 8 | 81 | 150 |  |
| 7H11T | 4 Hole Female Pyramid | Titanium | 15 | 89 | 150 |  |
| 7H13T | 4 Hole Adapter | Titanium | 10 | 63 | 150 |  |
| 8H19T | 4 Hole Socket Adapter | Titanium | 12 | 112 | 150 |  |

SOCKET ADAPTERS ROTATABLE





| Reference | Name | Material | Build height, mm | Weight, g | Maximum patient weight, kg | Photo |
|-----------|-----------------------------|----------|------------------|-----------|----------------------------|---|
| 8HO2T | Male Pyramid Socket Adapter | Titanium | 10 | 55 | 150 |  |



SOCKET COMPONENTS



SOCKET COMPONENTS

| Reference | Name | Material | Build height, mm | Weight, g | Photo |
|-----------|-----------------|--------------------------------------|------------------|-----------|---|
| 7H15 | Vacuum valve | Plastic / Stainless steel | — | 10 |  |
| 7H16 | Connecting tube | Plastic | — | 25 |  |
| 7H17 | Vacuum valve | Plastic / Stainless steel / Aluminum | — | 10 |  |
| 7H18 | Vacuum valve | Plastic / Stainless steel / Aluminum | — | 22 |  |



SOCKET COMPONENTS

COMPONENTS FOR LOWER LIMB PROSTHESIS

COSMETIC COVERS REINFORCING KNITTED SLEEVES



COSMETIC COVERS FOR HIP PROSTHESIS

| Reference | Name | Height, mm | Size, cm | Density, kg/m ³ | Application | Photo |
|--------------|--|------------|----------|----------------------------|-----------------------------------|-------|
| 9H081K36R(L) | Cosmetic cover for lower limb prosthesis, small hole, size 360 mm | 900 | 36 | 45 | | |
| 9H081K40R(L) | Cosmetic cover for lower limb prosthesis, small hole, size 400 mm | 900 | 40 | 45 | With knee joints 6H01, 6H06, 6H09 | |
| 9H081K44R(L) | Cosmetic cover for lower limb prosthesis, small hole, size 440 mm | 900 | 44 | 45 | | |
| 9H082K36R(L) | Cosmetic cover for lower limb prosthesis, medium hole, size 360 mm | 900 | 36 | 45 | | |
| 9H082K40R(L) | Cosmetic cover for lower limb prosthesis, medium hole, size 400 mm | 900 | 40 | 45 | With knee joints 6H02, 6H23 | |
| 9H082K44R(L) | Cosmetic cover for lower limb prosthesis, medium hole, size 440 mm | 900 | 44 | 45 | | |
| 9H083K44R(L) | Cosmetic cover for lower limb prosthesis, large hole, size 440 mm | 900 | 44 | 45 | With knee joint 6H24 | |

* All cosmetic covers for hip prostheses are made of polyurethane foam material.







PREFORMS FOR TIBIA COSMETIC COVERS

| Reference | Name | Material | Density, kg/m ³ | Photo |
|-----------|---------------------|----------------------------|----------------------------|---|
| 9H091K | Calf cosmetic cover | Polyurethane foam material | 45 |  |

REINFORCING KNITTED SLEEVES

| Reference | Name | Material | Size, mm | Photo |
|-----------|--|--|--------------------|---|
| 10H01PACO | Reinforcing knitted sleeve, polyamide/cotton | Nylon fiber textured elastic, 100% combed yarn | 100, 125, 150, 200 |  |
| 10H01PA | Reinforcing knitted sleeve, polyamide | Nylon fiber textured elastic | 100, 125, 150, 200 |  |



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