

Specificatie tehnica completat

Model: Practioc 145000/ Smarter Practico; Producator: Merivaara Corp; Tara: Finlanda

Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către autoritatea contractantă
1. OPERARE: - Mecanismul de funcționare: de tip electrohidraulic. - Comandă: telecomandă cu pictograme și butoane corespunzător funcțiilor mesei, cu transmisiune prin fir. - Panou de comandă cu butoane încorporat în masă, cu pictograme și butoane corespunzător funcțiilor mesei. - Buton cu funcția de reîntoarcere la poziția inițială. - Sistem mobil cu minim 3 roți pentru mobilitatea mesei. - Sistem de frâne hidraulice, pentru poziționarea-fixarea sigură a mesei prin elevare - Operare de la 2 surse de energie independente: rețea de curent și acumulatori interni reîncărcabili (cu o durată autonomie minim 60 de manipulații). 2. PARTICULARITĂȚI - Grosime saltea minim 65 mm, înveliș lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). - Interval de altitudine: minim 65 ±10cm pozitie jos, minim 110 ± 10 pozitie sus. - Trendelenburg: Cap sus: minim 40 °. - Trendelenburg reversat : Cap jos: minim 40 °. - Înclinare lateral: minim 30 ° Secțiune stânga / dreapta. - Secțiunea spate: Sus: minim +70 °, Jos: minim -40 ° - Flex / Reflex: minim 220 ° / 110 °. - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90°. - Secțiunea picioarelor: divizată, cu fixator-curea pentru picior. - Secțiunea cap: minim +35 ° sus, jos minim -80 °. - Partea superioară a mesei: glisarea spre cap: minim 200 mm / până la picioare: minim 330 mm. - Poziția corectă din punct de vedere anatomic pe scaun: Da. - Capacitate minimă de ridicare 250 kg. - Capacitate minimă articulație 250 kg. - Dimensiuni blat 2080±50 mm × 500±20 mm. - Dimensiunea șinei laterale aflată pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart). - Tensiune de alimentare 200-240V (50-60Hz). - Temperatura ambiantă de lucru 10-40 ° C. - Scurgeri de curent electric: mai puțin de 100 de microamperi. - Radiotransparența.	1. OPERARE: - Mecanismul de funcționare: de tip electrohidraulic. - Comandă: telecomandă cu pictograme și butoane corespunzător funcțiilor mesei, cu transmisiune prin fir. DA - Panou de comandă cu butoane încorporat în masă, cu pictograme și butoane corespunzător funcțiilor mesei. DA - Buton cu funcția de reîntoarcere la poziția inițială. DA - Sistem mobil cu minim 3 roți pentru mobilitatea mesei. DA - Sistem de frâne hidraulice, pentru poziționarea-fixarea sigură a mesei prin elevare DA - Operare de la 2 surse de energie independente: rețea de curent și acumulatori interni reîncărcabili (cu o durată autonomie minim 60 de manipulații). DA 2. PARTICULARITĂȚI - Grosime saltea minim 65 mm, înveliș lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). DA - Interval de altitudine: minim 64 cm pozitie jos, DA minim 113 cm pozitie sus. DA - Trendelenburg: Cap sus: 30°. DA - Trendelenburg reversat : Cap jos: 30°. DA - Înclinare lateral: 20° Secțiune stânga / dreapta. DA - Secțiunea spate: Sus: minim +70 °, Jos: minim -40 ° DA - Flex / Reflex: minim 220 ° / 110 °. DA - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90°. DA - Secțiunea picioarelor: divizată, cu fixator-curea pentru picior. DA - Secțiunea cap: minim +35 ° sus, jos minim -80 °. DA corespunzator de tipul suportului de cap - Partea superioară a mesei: glisarea spre cap: minim 200 mm / până la picioare: minim 330 mm. DA - Poziția corectă din punct de vedere anatomic pe scaun: Da. - Capacitate minimă de ridicare 280 kg. - Capacitate minimă articulație 280 kg. - Dimensiuni blat 2080±50 mm (in tepemdet de numarul de sectie poate fi diferita) × 540mm. DA - Dimensiunea șinei laterale aflată pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart). DA - Tensiune de alimentare 200-240V (50-60Hz). DA - Temperatura ambiantă de lucru 10-40 ° C. DA - Scurgeri de curent electric: mai puțin de 100 de microamperi. DA - Radiotransparența. DA

- Accesibilitatea sistemului de angiografie portabil (C-arm). 3.ACCESORII: - Suport pentru cap de tip potcoavă, ce asigură confortul pacientului și poziționarea fixă adaptabilă, suprafețe lavabile și rezistente la acțiuni mecanice și chimice (dezinfectanți) – 1 buc. - Suport pentru cap de tip inel/ cerc, ce asigură confortul pacientului și poziționarea fixă adaptabilă, cu suprafețe lavabile și rezistente la acțiuni mecanice și chimice (dezinfectanți)- 1 buc - Suport pentru mâinile operator (chirurg) cu ajustare pe verticală , tip frontal (forma de potcoavă)-1 buc - Suport pentru mâini pacient cu fixator(curea) lungime de cca. 80 mm ±5mm - DA, 2 buc. - Suport pentru perfuzii-1 buc. - Suport/ecran de anestezie-1 buc. - Lacat pentru fixarea accesoriilor pe sinele laterale ale mesei-4 buc. 4. CERINȚE DE CERTIFICARE: - Anul producerii – 2022. - Conformitate cu directiva 93/42 CEE - Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru pentru produsele oferite, valabil, copie confirmată prin semnatura și ștampila Participantului. - Declarație de la Ofertant – confirmată prin semnatura și ștampila, în care să certifice termenul de garanție pentru echipament și accesorii nu mai mic de 24 luni din momentul instalării/darii în exploatare a bunului. - - Instalare de către participantul câștigător - Training pentru utilizatori la instalare și la solicitare – obligatoriu. Documente confirmative: - Manual de service în una din limbile de circulație internațională (rusa/engleza). - Manual de utilizare cu prezentarea traducerii la momentul livrării în limba de stat. Ghid rapid al utilizatorului in limba de stat sau in una din limbile de circulație internațională (rusa/engleza)	- Accesibilitatea sistemului de angiografie portabil (C-arm). DA 3.ACCESORII: - Suport pentru cap de tip potcoavă, ce asigură confortul pacientului și poziționarea fixă adaptabilă, suprafețe lavabile și rezistente la acțiuni mecanice și chimice (dezinfectanți) – 1 buc. DA PN 100018143 - Suport pentru cap de tip inel/ cerc, ce asigură confortul pacientului și poziționarea fixă adaptabilă, cu suprafețe lavabile și rezistente la acțiuni mecanice și chimice (dezinfectanți)- 1 buc. DA PN 100018151 - Suport pentru mâinile operator (chirurg) cu ajustare pe verticală , tip laterala - 1 set DA 100000151 - Suport pentru mâini pacient cu fixator(curea) lungime de cca. 80 mm ±5mm - DA, 2 buc. DA PN 119185 - Suport pentru perfuzii-1 buc. DA PN 100000749 - Suport/ecran de anestezie-1 buc. DA PN 110111 - Lacat pentru fixarea accesoriilor pe sinele laterale ale mesei-4 buc. DA PN 100010200 4. CERINȚE DE CERTIFICARE: - Anul producerii – 2022. DA - Conformitate cu directiva 93/42 CEE DA - Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru pentru produsele oferite, valabil, copie confirmată prin semnatura și ștampila Participantului. DA - Declarație de la Ofertant – confirmată prin semnatura și ștampila, în care să certifice termenul de garanție pentru echipament și accesorii nu mai mic de 24 luni din momentul instalării/darii în exploatare a bunului. DA - Instalare de către participantul câștigător - Training pentru utilizatori la instalare și la solicitare – obligatoriu. DA Documente confirmative: - Manual de service în una din limbile de circulație internațională (rusa/engleza). DA - Manual de utilizare cu prezentarea traducerii la momentul livrării în limba de stat. Ghid rapid al utilizatorului in limba de stat sau in una din limbile de circulație internațională (rusa/engleza) DA
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Specificatie tehnica completat

Model: Practioc 145000/ Smarter Practico; Producator: Merivaara Corp; Tara: Finlanda

Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către autoritatea contractantă
1.OPERARE: - Masa modulara compusa din 5-6 segmente. - Mecanismul de functionare: de tip electrohidraulic. - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. - Buton cu funcția de reîntoarcere la poziția inițială. - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). 2.PARTICULARITATI - Grosime saltea minim 65 mm, invelis lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). - Interval de altitudine: minim 65 ±10cm pozitia de jos, minim 110 ± 10cm pozitia de sus - Trendelenburg: Cap sus: minim 40 °, - Trendelenburg reversat : Cap jos:minim 40 ° - Înclinare lateral: minim 30 ° Secțiune stânga / dreapta - Secțiunea spate: Sus: minim 70 °, Jos: minim -30 ° - Flex / Reflex: minim 210 ° / 110 ° - Secțiunile cap, spate și picioare: detașabile și interschimbabile. - Modul de extensie al zonei de “cap” cu perne aditionale pentru a putea fi efectuata plierea in zona toracica in cazul mesei cu 5 segmente - Capacitatea de articulare in zona toracica cu altitudinea minima 15 cm, de specificat in brosură/catalog oferit spre evaluare. - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90° - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual)	1.OPERARE: - Masa modulara compusa din 5-6 segmente. DA - Mecanismul de functionare: de tip electrohidraulic. DA - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir. DA - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. DA - Buton cu funcția de reîntoarcere la poziția inițială. DA - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. DA - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. DA - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). DA 2.PARTICULARITATI - Grosime saltea minim 65 mm, înveliș lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). DA - Interval de altitudine: minim 64 cm pozitie jos, DA minim 113 cm pozitie sus. DA - Trendelenburg: Cap sus: 30°. DA - Trendelenburg reversat : Cap jos: 30°. DA - Înclinare lateral: 20° Secțiune stânga / dreapta. DA - Secțiunea spate: Sus: +70 °, Jos: -40 ° DA - Flex / Reflex: minim 220 ° / 110 °. DA - Secțiunile cap, spate și picioare: detașabile și interschimbabile. DA - Modul de extensie al zonei de “cap” cu perne aditionale pentru a putea fi efectuata plierea in zona toracica in cazul mesei cu 5 segmente DA - Capacitatea de articulare in zona toracica cu altitudinea minima 15 cm, de specificat in brosură/catalog oferit spre evaluare. DA PN 100012805 – (greutate pazeintului maxima 227 kg) - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90° DA - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. DA mentine greutate de 280 Kg - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual) DA in dependeta de tipul suportului de cap.

- Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. - Poziția corectă din punct de vedere anatomic pe scaun: Da. - Extensia spate ajustabila cu “kidney bridge” motorizat (electronic) controlabil de la telecomandă și panoul de comandă. - Capacitate minimă de ridicare 250 kg. - Capacitate minimă articulație 250 kg. - Dimensiuni blat 2080±50 mm × 500±20 mm - Dimensiunea șinei laterale aflată pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart) - Tensiune de alimentare 200-240V (50-60Hz). - Temperatura ambiantă de lucru 10-40 ° C. - Scurgeri de curent electric: mai puțin de 100 de microamperi - Tunel pentru casetele X-ray- pe toata lungimea mesei - Radiotransparenta. - Accesibilitatea sistemului de angiografie portabil (C-arm). 3.ACCEsorii: - Suport lateral al miini detasabil cu fixator pozitie si fixare brat cu curea- 2 buc - Suport lateral elevat al miini detasabil cu fixator pozitie si fixare brat cu curea-1 buc - Suport pubian-1 buc - Suport lombar-1 buc - Suport toracic-1 buc - Curele de fixare al zonei femurale-2 buc. - Perna pentru suport picioare in pozitie laterala, in cazul pozitionarii laterale al pacientului - Vas pentru deseuri.-1 buc - Suport pentru perfuzii-1 buc. - Suport/ecran de anestezie-1 buc. - Suport pentru picioare/genunchi de tip Gopel +accesoriile de fixare de masa- 1 set sau 1 pereche - Lacat pentru fixarea accesoriilor pe sinele laterale ale mesei-4 buc. 4. CERINȚE DE CERTIFICARE: -Anul producerii – 2022. - Conformitate cu directiva 93/42 CEE - Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru produsele oferite, valabil, copie confirmată prin semnatura și ștampila Participantului. - Declarație de la Ofertant – confirmată prin semnatura și ștampila, în care să certifice termenul de garanție pentru echipament și accesorii nu mai mic de 24 luni din momentul instalării/darii în exploatare a bunului. - Instalare de către participantul câștigător	- Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. DA - Poziția corectă din punct de vedere anatomic pe scaun: DA - Extensia spate ajustabila cu “kidney bridge” mecanica. DA - Capacitate minimă de ridicare 250 kg. DA - Capacitate minimă articulație 250 kg. DA - Dimensiuni blat 2080±50 mm × 540 mm DA - Dimensiunea șinei laterale aflată pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart) DA - Tensiune de alimentare 200-240V (50-60Hz). DA - Temperatura ambiantă de lucru 10-40 ° C. DA - Scurgeri de curent electric: mai puțin de 100 de microampere DA - Tunel pentru casetele X-ray- pe toata lungimea mesei DA - Radiotransparenta. DA - Accesibilitatea sistemului de angiografie portabil (C-arm). DA 3.ACCEsorii: - Suport lateral al miini detasabil cu fixator pozitie si fixare brat cu curea- 2 buc DA - Suport lateral elevat al miini detasabil cu fixator pozitie si fixare brat cu curea-1 buc DA - Suport pubian-1 buc DA - Suport lombar-1 buc DA - Suport toracic-1 buc DA - Curele de fixare al zonei femurale-2 buc. DA - Perna pentru suport picioare in pozitie laterala, in cazul pozitionarii laterale al pacientului DA - Vas pentru deseuri.-1 buc DA - Suport pentru perfuzii-1 buc. DA - Suport/ecran de anestezie-1 buc. DA - Suport pentru picioare/genunchi de tip Gopel +accesoriile de fixare de masa- 1 set sau 1 pereche DA - Lacat pentru fixarea accesoriilor pe sinele laterale ale mesei-4 buc. DA 4. CERINȚE DE CERTIFICARE: -Anul producerii – 2022. DA - Conformitate cu directiva 93/42 CEE DA - Certificat CE sau declarație de conformitate CE cu anexele corespunzătoare pentru produsele oferite, valabil, copie confirmată prin semnatura și ștampila Participantului. DA - Declarație de la Ofertant – confirmată prin semnatura și ștampila, în care să certifice termenul de garanție pentru echipament și accesorii nu mai mic de 24 luni din momentul instalării/darii în exploatare a bunului. DA - Instalare de către participantul câștigător DA
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- Training pentru utilizatori la instalare și la solicitare – obligatoriu. Documente confirmative: manual de service în una din limbile de circulație internațională (rusa/engleza). - Manual de utilizare cu prezentarea traducerii la momentul livrării în limba de stat. - Ghid rapid al utilizatorului în limba de stat sau în una din limbile de circulație internațională (rusa/engleza).	- Training pentru utilizatori la instalare și la solicitare – obligatoriu. Documente confirmative: manual de service în una din limbile de circulație internațională (rusa/engleza). DA - Manual de utilizare cu prezentarea traducerii la momentul livrării în limba de stat. DA - Ghid rapid al utilizatorului în limba de stat sau în una din limbile de circulație internațională (rusa/engleza). DA
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Specificatie tehnica completat

Model: Practioc 145000/ Smarter Practico; Producator: Merivaara Corp; Tara: Finlanda

Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către autoritatea contractantă
1 OPERARE: - Masa compusa din 6 segmente. - Mecanismul de functionare: de tip electrohidraulic. - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. - Buton cu funcția de reîntoarcere la poziția inițială. - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). 2.PARTICULARITATI - Grosime saltea minim 65 mm, invelis lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). - Interval de altitudine: minim 65 ±10cm pozitie jos, minim 110 ± 10 pozitie sus. - Trendelenburg: Cap sus: minim 40 ° - Trendelenburg reversat : Cap jos:minim 40 ° - Înclinare lateral: minim 20 ° Secțiune stânga / dreapta - Secțiunea spate: Sus: minim 70 °, Jos: minim -30 ° - Flex / Reflex: minim 210 ° / 110 ° - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90° - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual) - Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. - Sectiune pentru rinichi cu inaltime ajustabila minim 120mm - Extensia spate ajustabila cu “kidney bridge” motorizat (electronic) controlabil de la telecomandă și panoul de comandă - Poziția corectă din punct de vedere anatomic pe scaun: Da. - Capacitate minimă de ridicare 250 kg. - Capacitate minimă articulație 250 kg. - Dimensiuni blat 2180±50 mm × 500±20 mm	1. OPERARE: - Masa compusa din 6 segmente. DA - Mecanismul de functionare: de tip electrohidraulic. DA - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir DA - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. DA - Buton cu funcția de reîntoarcere la poziția inițială. DA - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. DA - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. DA - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). DA 2.PARTICULARITATI - Grosime saltea minim 65 mm, înveliș lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). DA - Interval de altitudine: minim 64 cm pozitie jos, DA minim 113 cm pozitie sus. DA - Trendelenburg: Cap sus: 30°. DA - Trendelenburg reversat : Cap jos: 30°. DA - Înclinare lateral: 20° Secțiune stânga / dreapta. DA - Secțiunea spate: Sus: minim +70 °, Jos: minim -40 ° DA - Flex / Reflex: minim 220 ° / 110 °. DA - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90°. DA - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. DA - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual) DA in dependeta de suportul capului folosit - Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. DA - Sectiune pentru rinichi cu inaltime ajustabila minim 120mm DA - Extensia spate ajustabila cu “kidney bridge” motorizat (electronic) controlabil de la telecomandă și panoul de comandă DA - Poziția corectă din punct de vedere anatomic pe scaun: DA - Capacitate minimă de ridicare 250 kg. DA - Capacitate minimă articulație 250 kg. DA - Dimensiuni blat 2180±50 mm × 540 mm DA

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Specificatie tehnica completat

Model: Practioc 145000/ Smarter Practico; Producator: Merivaara Corp; Tara: Finlanda

Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către autoritatea contractantă
1. OPERARE: - Masa compusa din 5 segmente. - Mecanismul de functionare: de tip electrohidraulic. - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. - Buton cu funcția de reîntoarcere la poziția inițială. - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). 2.PARTICULARITATI - Grosime saltea minim 65 mm, invelis lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). - Interval de altitudine: minim 65 ±10cm pozitie jos, minim 110 ± 10 pozitie sus - Trendelenburg: Cap sus: minim 40 ° - Trendelenburg reversat : Cap jos:minim 40 ° - Înclinare lateral: minim 30 ° Secțiune stânga / dreapta - Secțiunea spate: Sus: minim 70 °, Jos: minim -40 ° - Flex / Reflex: minim 220 ° / 110 ° - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90° - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual) - Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. - Sectiune pentru rinichi cu inaltime ajustabila minim 120mm - Poziția corectă din punct de vedere anatomic pe scaun: Da. - Capacitate minimă de ridicare 250 kg. - Capacitate minimă articulație 250 kg. - Dimensiuni blat 2080±50 mm × 500±20 mm - Dimensiunea șinei laterale aflata pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart) - Tensiune de alimentare 200-240V (50-60Hz).	1. OPERARE: - Masa compusa din 5 segmente. DA - Mecanismul de functionare: de tip electrohidraulic. DA - Comanda: telecomandă cu pictograme si butoane corespunzător funcțiilor mesei, cu transmisiune prin fir DA - Panou de comanda cu butoane încorporat in masă, cu pictograme si butoane corespunzător funcțiilor mesei. DA - Buton cu funcția de reîntoarcere la poziția inițială. DA - Sistem mobil cu minim 3 roti pentru mobilitatea mesei. DA - Sistem de frâne, pentru poziționarea-fixarea sigură a mesei. DA - Operare de la 2 surse de energie independente: rețea de curent si acumulatori interni reîncărcabili (cu o durată autonomie minim 60 min). DA 2.PARTICULARITATI - Grosime saltea minim 65 mm, înveliș lavabil, rezistent la acțiuni mecanice și chimice (dezinfectanți). DA - Interval de altitudine: minim 64 cm pozitie jos, DA minim 113 cm pozitie sus. DA - Trendelenburg: Cap sus: 30°. DA - Trendelenburg reversat : Cap jos: 30°. DA - Înclinare lateral: 20° Secțiune stânga / dreapta. DA - Secțiunea spate: Sus: minim +70 °, Jos: minim -40 ° DA - Flex / Reflex: minim 220 ° / 110 °. DA - Secțiunea picioarelor: Sus: minim +20 °, Jos: minim -90°. DA - Secțiunea picioarelor: detasabile, divizata, cu spatiu pentru interventiile ginecologice, cu fixator-curea pentru picior. DA - Secțiunea cap: minim +35 ° sus, jos minim -80 ° (manual) DA in dependeta de tipl suportului pentru cap - Partea superioară a mesei: glisează spre cap: minim 200 mm / până la picioare: minim 330 mm. DA - Sectiune pentru rinichi cu inaltime ajustabila minim 120mm DA cu elevator manual - Poziția corectă din punct de vedere anatomic pe scaun: Da. DA - Capacitate minimă de ridicare 250 kg. DA - Capacitate minimă articulație 250 kg. DA - Dimensiuni blat 2080±50 mm × 500±20 mm DA - Dimensiunea șinei laterale aflata pe tot perimetrul mesei: grosime 10 mm, lățime 25 mm (eurostandart) DA - Tensiune de alimentare 200-240V (50-60Hz). DA

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A detailed view of a Merivaara operating table, showing the upper section with a patient support area and the lower section with a complex, multi-layered base. The table is constructed from polished metal and black components. The brand name 'MERIVAARA' is visible on a small plate on the upper section and on a large black plate on the base. The background is a plain, light gray.

Operating Tables

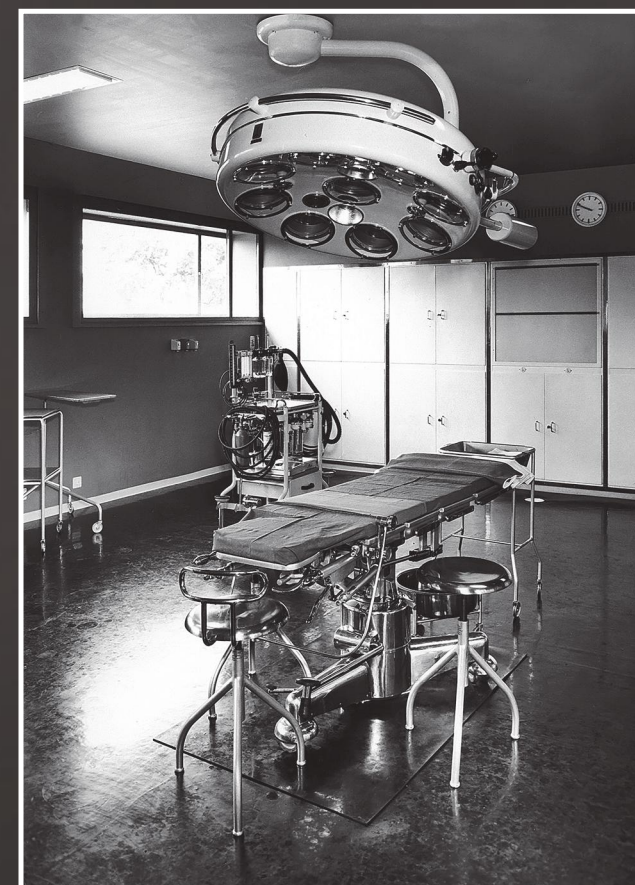
 **MERIVAARA**

Fluent usability

Since 1901

"In addition to the exquisite quality of work, we have taken the utmost interest in the functionality of the equipment. In this regard, several doctors committed to the cause have contributed their advice, based on their valuable experience."

Juho Merivaara in 1926, founder of Merivaara



In a modern operating room from the 1950s tables and lights were manually adjusted.

**DESIGN[®]
FROM
FINLAND**



We are proud that the company's values 120 years ago were so ahead of their time that they can still today be fully applied when designing new innovative solutions for healthcare professionals. This is demonstrated by our latest award-winning products, the Q-Flow surgical light and the Smarter Practico operating table with functionality and ease of use at the heart of the design. Our user interfaces are developed together with hospital staff so that all our products and systems can be used intuitively.

We call this Fluent Usability; operating room staff can focus on patient care, not for the management of complex technologies. Top surgeons appreciate this all over the world.





Solutions

Merivaara Solutions offer operating rooms a wide range of high-quality products, systems and services. Our solutions not only guarantee patient safety, but also provide healthcare operators with the best value for money.

When designing our solutions around the entire surgical team, it is important for us to listen to the customer's needs. This allows us to ensure that the team can implement the procedures safely, quickly and reliably. At the same time, workflow is optimized and the productivity of the entire team will increase.

Merivaara has long experience from leading and implementing projects in operating rooms. For us, keeping projects to schedule and reducing costs is extremely important.

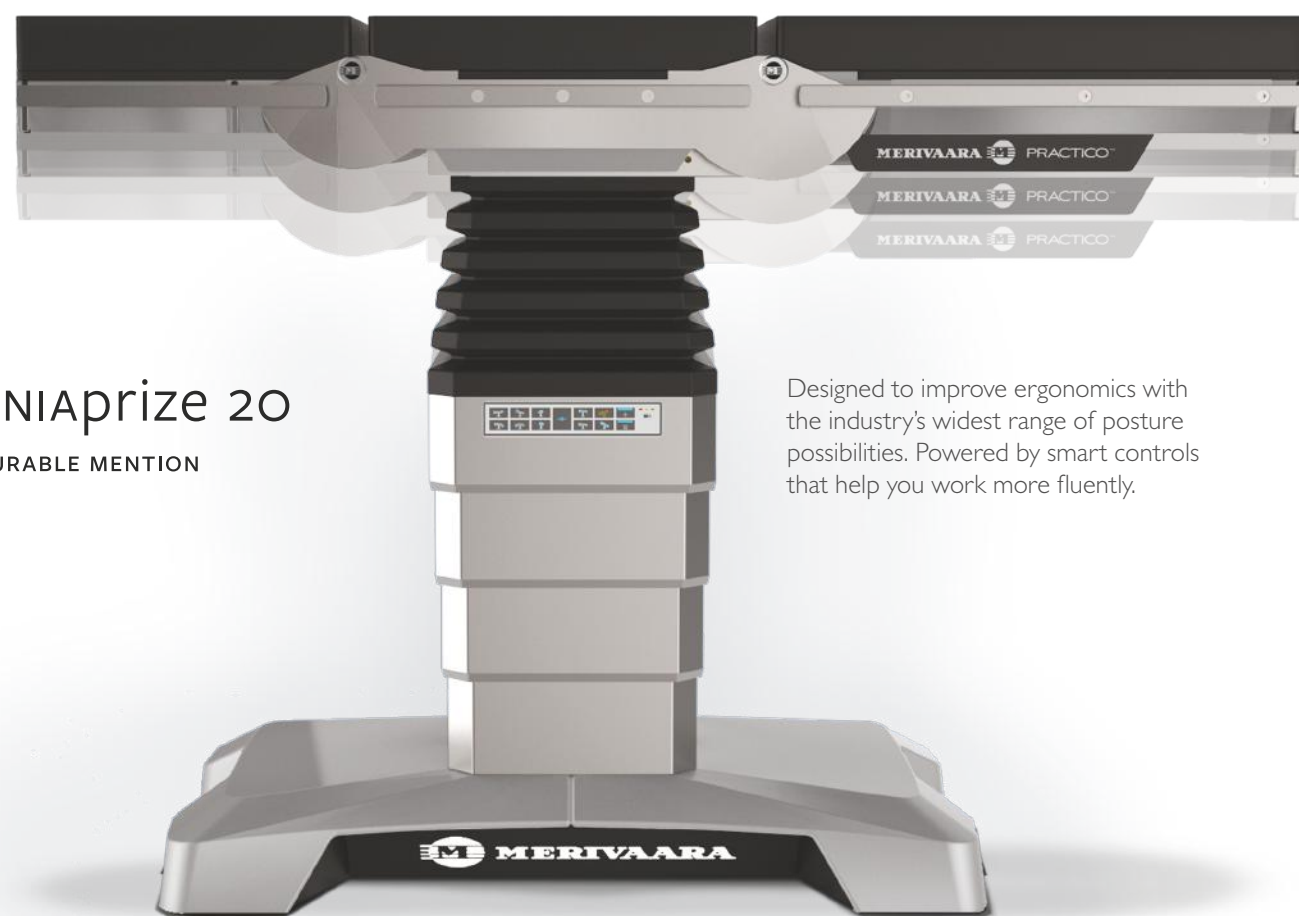
- SURGICAL LIGHTS • EXAMINATION LIGHTS
- OPERATING TABLES • TABLE ACCESSORIES
- INTERGRATION SYSTEMS • MONITORS & MONITOR ARMS
- PENDANTS • PROJECTS • MERIVAARA SERVICES

Smarter Practico

Operate high & low

FENNIAPRIZE 20

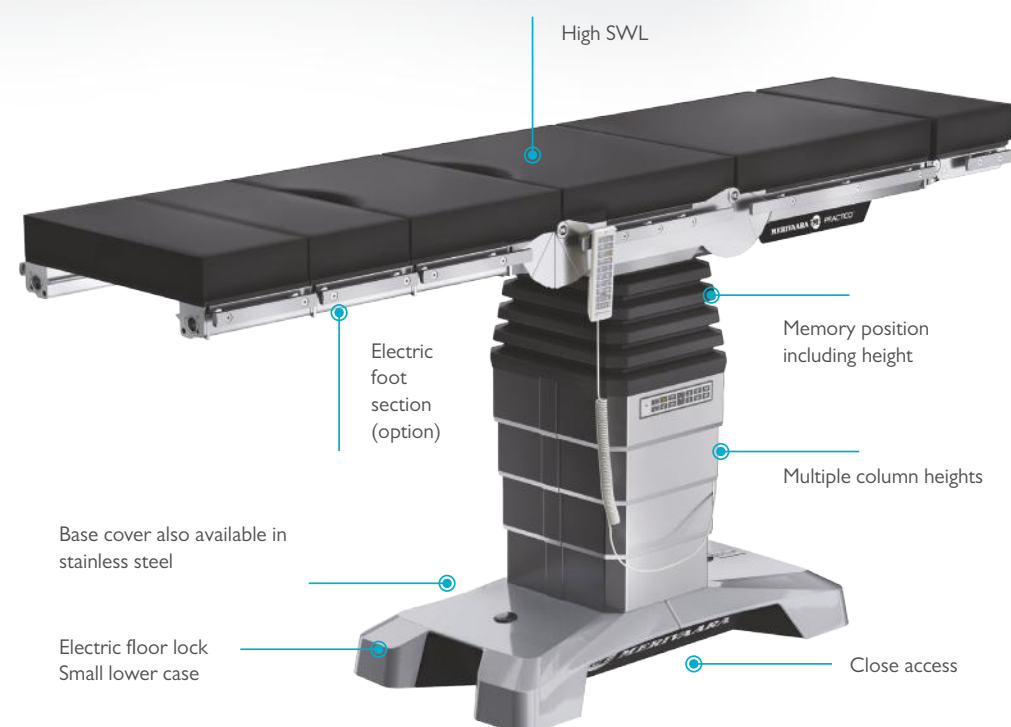
HONOURABLE MENTION



Designed to improve ergonomics with the industry's widest range of posture possibilities. Powered by smart controls that help you work more fluently.

Highlights

Improved features let you focus on the task in hand while superior ergonomic design improves the comfort of the whole surgical team. Comfort leads to concentration, confidence and better co-operation. That's efficiency.



Benefits of the Smarter Practico

1. ENHANCED ERGONOMICS

- Multiple Column Height Choices: General, Low, High
- Surgical Application Adaptability – easily adaptable to multiple surgical applications
- Ergonomically focused for both the surgical team and the patient



2. SAFE & STRONG

- Up to 280 kg in all directions including slide
- Suitable for bariatric surgery with vast range of accessories
- Lifting capacity 460 kg



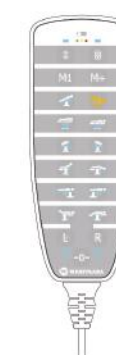
3. FLUENT ACCESSABILITY

- The low height of the base allows 360 degree C-arm access
- The curved base design allows for the surgeon to gain closer access to the patient.
- 390 mm longitudinal slide allows for more C-arm accessibility making X-Ray and Fluoroscopic imaging possible



4. SMART HAND CONTROL

- Easy-to-use interface
- Fluent design and comfortable to hold
- Quick memory functions
- Endoscopic mode ensures safe and easy use in a low light environment
- Convenient battery health indicator



5. SMART MOVEMENTS

- The smart control system of the table recognizes potential mechanical collision situations.
- Multiple anti-collision adjustments, e.g. during deep Trendelenburg.
- Control system automatically performs correct compensative movements to allow for safe and smooth adjustments.



ELECTIVE ORTHOPEDIC SURGERIES

Smarter Practico for elective orthopedics is the flexible solution for any operating room performing elective orthopedic surgical procedures. Thanks to its extensive height adjustment range, Smarter Practico is the ergonomic solution for the OR.



HIP SURGERY

The adaptable heights improve ergonomics for short and tall personnel whether standing or sitting.



LOWER EXTREMITIES

Together with orthopedic extension solutions, Smarter Practico fulfills the demands in today's OR.



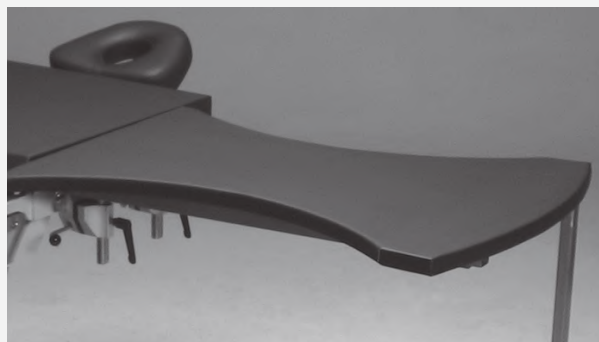
KNEE SURGERY

The Max Hi Smarter Practico is ergonomically designed for tall personnel. The fluent base is designed to allow for non-obstructive and closer access to the surgical field.

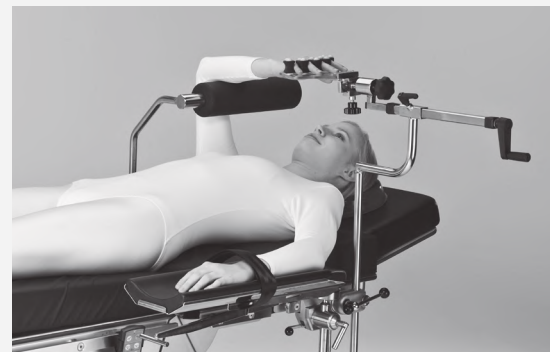
APPLICATION EXAMPLES:

- Hip surgery
- Knee surgery
- Foot and ankle surgery
- Hand surgery
- Femur / tibia surgery
- Elbow / humerus surgery

SPECIAL ACCESSORIES



HAND OPERATING TABLE 10390



HUMERUS TRACTION KIT 110438

ORTHOPEDIC SHOULDER SURGERIES

The Smarter Practico for orthopedics is the flexible solution for any operating room performing shoulder orthopedic procedures. The beach chair section allows for easy access to the surgical field. Smarter Practico offers an extensive height adjustment range creating the perfect ergonomic solution in the OR.



FULL ACCESS TO THE SHOULDER AREA

Large cutout of the beach chair provides excellent surgical access.



EXCEPTIONAL PATIENT POSITIONING

Fluent movement is ensured because of the Smarter Practico's smart control system.

“ The back section cutout allows for a greater access to the shoulder area and for improved patient arm movements.

Dr Kari Salovaara, Orthopaedic Surgeon
at Päijät-Häme Central Hospital in Finland



SECURED POSITIONING

The beach chair support belt ensures the safe positioning of the patient without obstructing the surgical area.



USER FRIENDLY

Smart and smooth locking mechanism enables the quick release of the removable back section cutout.

SPECIAL ACCESSORIES



BEACH CHAIR HELMET
HEAD REST 30128



MULTI-TASK ARMBOARD 11802

OPHTHALMIC SURGERY

Smarter Practico for ophthalmics – ergonomics on its best. Thanks to extensive height adjustment range, Smarter Practico is suitable for all personnel of all heights offering excellent ergonomomy.

“Memory positions provide efficiency to repetitive operations. Mattresses felt good and supportive – more comfort for the patients.”

Oulu University Hospital Department of Ophthalmicology



LOWEST ON THE MARKET

Smarter Practico's ultimate low height of 540 mm makes it the perfect choice in the OR. Merivaara offers a vast range of ophtalmic head sections ensuring close proximity to the operating area. The streamlined base ensures the optimal foot space for the surgeon.

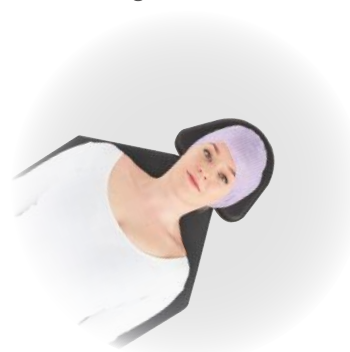
APPLICATION EXAMPLES:

- Cataract surgery
- Glaucoma surgery
- Refractive surgery
- Corneal surgery
- Vitreo-retinal surgery
- Extraocular muscle surgery
- Oculoplastic surgery

More support for the patient



More space for the surgeon to work



SPECIAL ACCESSORIES



ARM REST 125



ENT-SURGERY HEAD REST 18143

EAR, NOSE AND THROATH SURGERY

Smarter Practico's max low can also be utilized for ENT surgical procedures.



SPECIAL EYE-ENT BACK SECTION AND HEAD REST

- Allows for closer proximity to the patient
- Ergonomic for both the patient and end user
- Ensures stability
- ENT head rests offer excellent articulation

APPLICATION EXAMPLES:

- Tonsilectomy
- Ear surgery
- ENT oncology
- Functional endoscopic sinus
- Septoplasty
- Rhinoplasty

SPECIAL ACCESSORIES



NARROW HEADREST 142



ENT-OPHTHALMOLOGY HEAD REST 18150

PLASTIC SURGERY

Smarter Practico for plastics is the flexible solution for any operating room performing plastic surgery. Thanks to the extensive height adjustment range, Smarter Practico is suitable for personnel of all heights.

MAX LOW

The table is easily reachable for the patients and gives excellent ergonomics for the surgeons while seated

FLUENT ACCESSIBILITY

New design gives more room for surgeon's legs



APPLICATION EXAMPLES:

- Breast Enhancement: Augmentation, Lift, Reduction, Reconstruction
- Facial Contouring: Rhinoplasty, Chin, or Cheek Enhancement
- Facial Rejuvenation: Facelift, Eyelid Lift, Neck Lift, Brow Lift
- Body Contouring: Tummy Tuck, Liposuction, Gynecomastia Treatment
- Scar Revision Surgery

SPECIAL ACCESSORIES



ARM REST 19180



HEAD REST 60142

GYNECOLOGY AND UROLOGY

Smarter Practico is the flexible solution for any operating room performing gynecological and urological procedures. Thanks to the extensive height adjustment range, Smarter Practico is suitable for personnel of all heights.

GYNECOLOGICAL SURGERY



EXCELLENT ACCESS AND QUICK RE-POSITIONING

Due to the extensive height adjustment, Smarter Practico is the ergonomic solution for all gynecological applications. The quick memory function makes the re-positioning easy.

UNOBSTRUCTIVE IMAGING

The extensive slide function allows for easier access for imaging equipment.

APPLICATION EXAMPLES:

- Endometriosis surgery
- Surgery for depression of uterus and vaginal walls
- Uterine scraping
- Treatment of uterine muscle tumors (myoma treatment)
- Hysterectomy
- Hydroponic removal
- Prostate laser surgery
- Scrotum surgery
- Seed Removal (Sperm)
- Bladder Vision (Cystoscopy)

UROLOGICAL SURGERY



UNCOMPROMISED ACCESS FOR THE SURGEON

Thanks to the slide function the table top can be slid toward the surgeon allowing for more ergonomic access to the operating field.

“ Surgeon's access is excellent. Longitudinal slide is a very good option in gynecological and urological procedures.”

Erkki Riihinen, Operating Room Technician

SPECIAL ACCESSORIES



K-TEK STIRRUPS

Provides unparalleled pelvic site access, larger boot sizing and better infection control. Available for pediatric, adult and bariatric.



BOWL 6 L W/O DRAINAGE 201571

SPINAL SURGERIES

Smarter Practico is the perfect solution for the spinal applications with its extensive height adjustment range.



SPINAL FLOATING SYSTEM

Cost-effective table top platform that fits all standard operating tables. The frame is fully radiolucent and the body supports allow the abdomen to hang freely to reduce venal pressure.

MAX HI AND MAX LO

Improved ergonomics for personnel of all heights.

FLUENT C-ARM ACCESS

Allowing intraoperative imaging due to its redesigned frame structure.

APPLICATION EXAMPLES:

- Laminectomy
- Discectomy
- Spinal Fusion
- Vertebroplasty/Kyphoplasty



“Table design makes C-arm imaging easy.”

Sami Elamo, MD, M.Sc. (tech),
Consultant in Orthopaedic
and Trauma Surgery

COMPATIBILITY WITH C-ARM

The Smarter Practico and its accessories allow for easy C-arm access.

OTHER SPINAL SOLUTIONS



PRONE POSITION MATTRESS SET 60750

SPINE FRAME 12805



OBSTETRICAL SURGERY

Smarter Practico is the flexible solution for the obstetrical OR. Its anticollision feature allows for the table to Trendelenburg without risk of collision with the floor. The low height removes the need for a step making the patient transfer smoother and safer.

“The operating table is so low that pregnant mothers can easily sit on it.”



MAX HI AND MAX LO

Improved ergonomics for personnel of all heights.

APPLICATION EXAMPLES:

- Caesarian surgery
- Episiotomy
- Colporrhaphy
- Colpotomy

SPECIAL ACCESSORIES



K-TEK STIRRUPS

Provides unparalleled pelvic site access, larger boot sizing and better infection control. Available for pediatric, adult and bariatric.



ARM-LEG SHIELD 60485

THORAX AND KIDNEY SURGERIES

Smarter Practico is the perfect solution for thoracic surgical procedures. Nephrectomy procedures are easily achieved thanks to the deep motorized jackknife position or with the kidney bridge model.



BUILT-IN KIDNEY BRIDGE BACK SECTION

Gives comfort and ergonomics for the patient and the surgeon.



LATERAL JACKKNIFE

Can easily be achieved thanks to the smooth motorized back section.

APPLICATION EXAMPLES:

- Lung cancer surgery
- Lung volume reduction surgery
- Oesophageal surgery
- Partial nephrectomy or nephron-sparing surgery
- Percutaneous nephrolithotomy/nephrolithotripsy (tunnel surgery)

“Quick setup for easy access to kidney area.”

Päijät-Häme Central hospital, Finland.

MINIMALLY INVASIVE SURGERY

Smarter Practico for minimally invasive surgery (MIS) is the flexible solution for the operating room.



EASY ACCESS



BARIATRIC



MAX HI AND MAX LO

“The operating table is excellent for good and ergonomic working positions. Different surgical operations can be done with Smarter Practico.”

Dr. Jyrki Kössi, Chief Gastroenterologist at Päijät-Häme Central Hospital in Finland



COMPATIBILITY WITH MOBILE C-ARMS

Intraoperative imaging is easy and flexible with Smarter Practico due to the fluent design.

APPLICATION EXAMPLES:

- Laparoscopy
- Bariatric surgery
- Tonsillectomy
- Appendectomy
- Cancer surgery
- Laparotomy
- Plastic surgery

SPECIAL ACCESSORIES



HEAD REST 60142

ROUND LATERAL BRACE 11651

MULTI-TASK ARMBOARD 11802



A vast variety of accessories can be found in the Merivaara Accessory catalog.

Advanced construction: Motorized leg sections

Lower leg sections
(require 60225 or 60425)

Upper leg sections
(attach to the seat section)

Back sections

Upper back sections / adapters

Head rests

DORO adapter
(connects directly to the side rails)

27.

* Recommended for Beach Chair

No.	Order No.	Name	Dimensions	Weight
1.	1000 30248	Short Divided Leg Plates, gas spring assisted	540 x 680 x 260 mm	2 x 9,1 kg
2.	1000 30147	One piece leg section, gas spring assisted	540 x 650 x 260 mm	17,1 kg
3.	1000 60475	Long Divided Leg Section, gas spring assisted	540 x 880 x 260 mm	2 x 9,9 kg
4.	1000 60250	25-Section	540 x 250 x 80 mm	7,6 kg
5.	1000 60225	25 Short-section	540 x 250 x 80 mm	5,4 kg
6.	1000 60425	25 gyn section	540 x 250 x 80 mm	5,3 kg
7.	1000 145480	Short Divided Leg Section Double joint		7,5 kg
8.	1000 60484	Divided Leg Plates, 4 Sections	540 x 865 x 230 mm	25 kg
9.	1000 60201	Light foot rest 60201	500 x 900 mm	5,2 kg
10.	1000 60204	Light leg section for motorized legs 60204	540 x 630 x 80 mm	4,9 kg
11.	1000 60440	40 gyn-section	540 x 400 x 80 mm	8,9 kg
12.	1000 60240	40-section	540 x 400 x 80 mm	9,1 kg
13.		Beach chair back section	540 x 650 x 200 mm	
14.		Eye-ENT back section	540 x 630 x 200 mm	
15.		Kidney bridge	540 x 630 x 200 mm	
16.		Standard	540 x 630 x 200 mm	
17.		Short back	540 x 500 x 200 mm	
18.	1000 60142	Head rest 60142	540 x 300 x 80 mm	6,4 kg
19.	1000 60140	Head rest 60140	540 x 300 x 80 mm	6,3 kg
20.	1000 60146	Head rest adapter 60146		2,5 kg
21.	1000 30126	Beach chair head rest 30126		4,6 kg
22.	1000 30128	Beach chair helmet head rest 30128		4,3 kg
23.	1000 18150 1000 18151	Head rest for ent/ophtalmology 18150 or 18151	225 x 290 x 60 mm	2,8-3,25 kg
24.	1000 18143	ENT-surgery head rest 18143	245 x 242 x 40 mm	3,4 kg
25.	1000 00142	Narrow headrest 142	275 x 206 x 50 mm	4,1 kg
26.	1000 00141	Wide headrest 141	275 x 406 x 50 mm	4,5 kg
27.	1003 00700	DORO adapter	700 x 680 x 60 mm	4,4 kg
28.	1010 01100	DORO Aluminium Head Rest System	550 x 600 x 470 mm	5,4 kg
29.	1003 00900	DORO Horseshoe Head rest	250 x 450 x 200 mm	2,1 kg

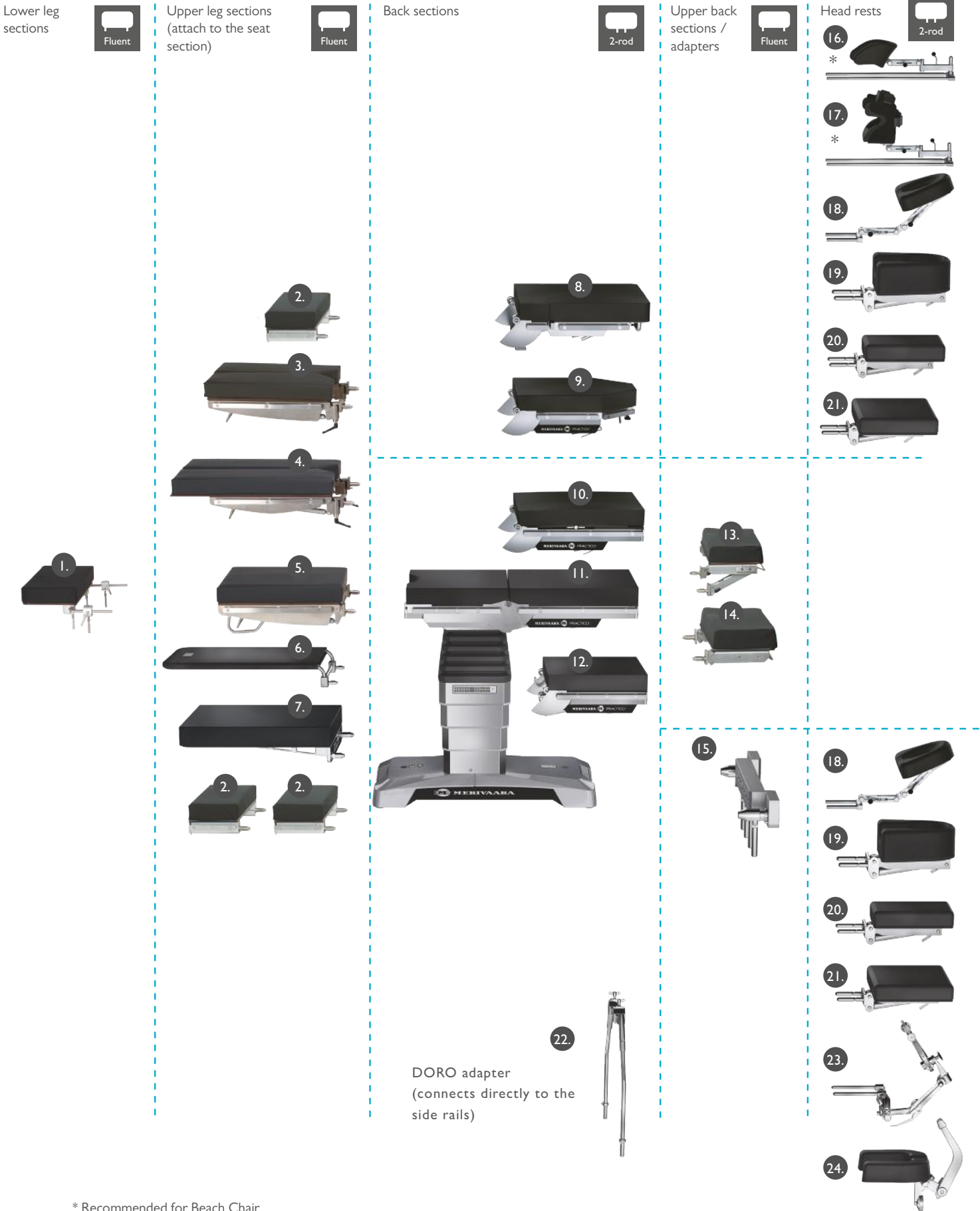


Available with Visco-elastic foam (VEF)
with premium patient comfort
against decubitus ulcers.

VEF
pad

General construction:

Non-motorized leg sections



* Recommended for Beach Chair

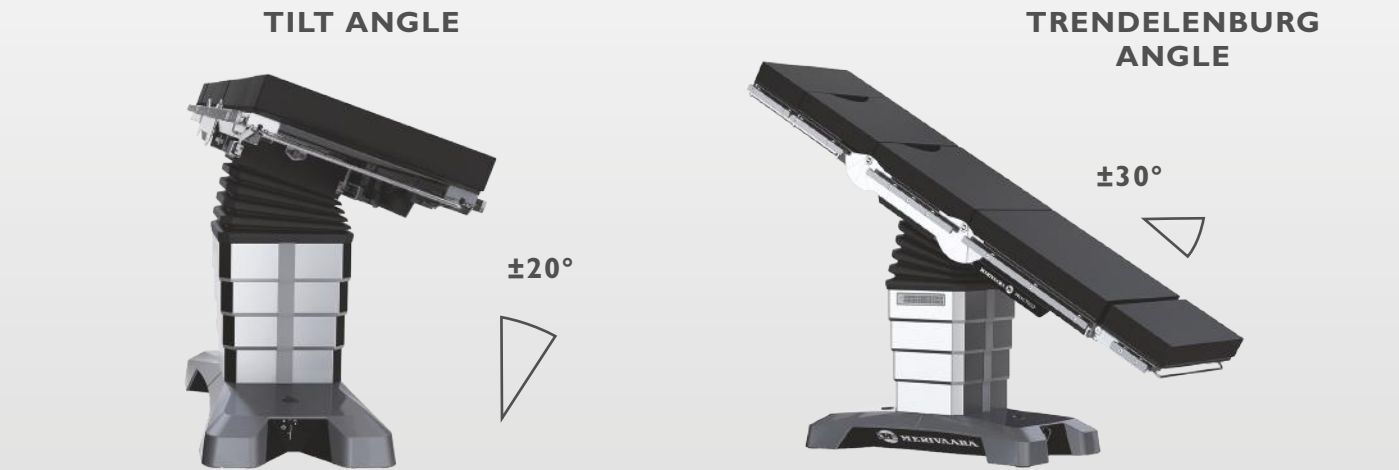
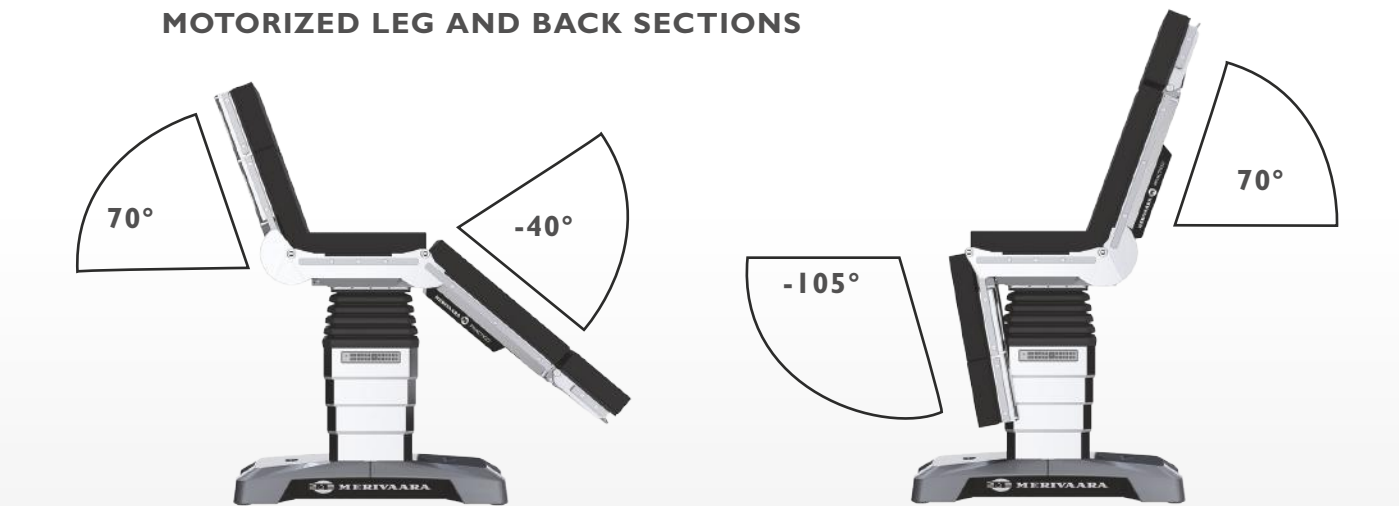
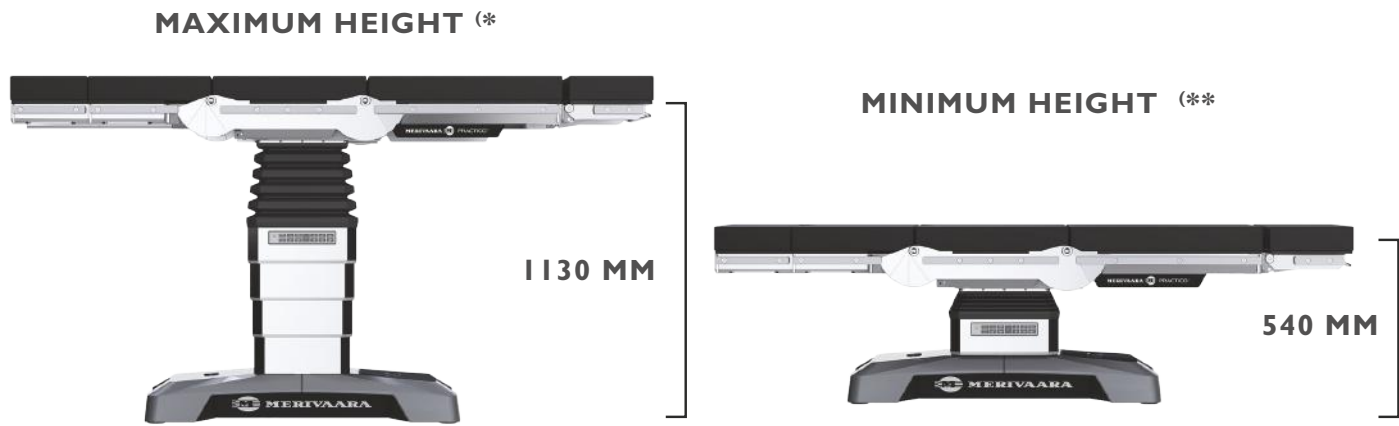
No.	Order No.	Name	Dimensions	Weight
1.	1000 20114	Foot rest / table extension 20114	700 x 170 x 455 mm	5,8 kg
2.	1000 60250	25-Section	540 x 250 x 80 mm	7,6 kg
3.	1000 30248	Short Divided Leg Plates, gas spring assisted	540 x 680 x 260 mm	2 x 9,1 kg
4.	1000 60475	Long Divided Leg Section, gas spring assisted	594 x 880 x 260 mm	
5.	1000 30147	One piece leg section, gas spring assisted	540 x 650 x 260 mm	17,1 kg
6.	1000 60201	Light foot rest 60201	500 x 900 mm	5,2 kg
7.	1000 60203	Light non-motorized leg section 60203		4,9 kg
8.		Beach chair back section	540 x 650 x 200 mm	
9.		Eye-ENT back section	540 x 630 x 200 mm	
10.		Kidney bridge	540 x 630 x 200 mm	
11.		Standard	540 x 630 x 200 mm	
12.		Short back	540 x 500 x 200 mm	
13.	1000 60142	Head rest 60142	540 x 300 x 80 mm	6,4 kg
14.	1000 60140	Head rest 60140	540 x 300 x 80 mm	6,3 kg
15.	1000 60146	Head rest adapter 60146		2,5 kg
16.	1000 30126	Beach chair head rest 30126		4,6 kg
17.	1000 30128	Beach chair helmet head rest 30128		4,3 kg
18.	1000 18150 1000 18151	Head rest for ent/ophtalmology 18150 or 18151	225 x 290 x 60 mm	2,8-3,25 kg
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22.	1003 00700	DORO adapter	700 x 680 x 60 mm	4,4 kg
23.	1010 01100	DORO Aluminium Head Rest System	550 x 600 x 470 mm	5,4 kg
24.	1003 00900	DORO Horseshoe Head rest	250 x 450 x 200 mm	2,1 kg



Available with Visco-elastic foam (VEF)
with premium patient comfort
against decubitus ulcers.

VEF
pad

Technical Specifications



(*) MAX HIGH COLUMN (**) MAX LOW COLUMN

	Slide and motorized leg sections	No Slide, motorized leg sections	Slide, No motorized leg sections	No Slide, No motorized leg sections
Trendelenburg angle (degrees)	± 30	± 30	± 30	± 30
Tilt angle (degrees)	± 20	± 20	± 20	± 20
Slide (mm/inch)	390 / 15,6"	–	390 / 15,6"	–
Back section angle (degrees)	+ 70 / - 40	+ 70 / - 40	+ 70 / - 40	+ 70 / - 40
Motorized leg sections angle (degrees)	+ 70 / - 105	+ 70 / - 105	–	–
Non-motorized leg sections angles (degrees)	–	–	+ 20 / - 90	+ 20 / - 90
Practico Max Lo height (mm/inch)	540-1030 / 21,3"-40,6"	553-1043 / 21,8"-41,1"	540-1030 / 21,3"-40,6"	–
Practico Max Hi height (mm/inch)	640-1130 / 25,2"-44,5"	653-1143 / 25,7"-45"	640-1130 / 25,2"-44,5"	–
Practico General height (mm/inch)	585-885 / 23"-34,8"	–	585-885 / 23"-34,8"	598-898 / 23,5"-35,4"
Table top width (mm/inch)	540 / 21,3"	540 / 21,3"	540 / 21,3"	540 / 21,3"
Number of table top sections	4–6	4–6	4–6	4–6
Safe working load (SWL)	280 kg / 617.3 lb	280 kg / 617.3 lb	280 kg / 617.3 lb	280 kg / 617.3 lb
Lifting capacity	460 kg / 1014.13 lbs	460 kg / 1014.13 lbs	460 kg / 1014.13 lbs	460 kg / 1014.13 lbs
Number of memory positions	1	1	1	1
Fifth wheel option	√	√	√	√
IR compatibility with Open OR	–	–	–	–
Mattress type	VEF 80 mm	VEF 80 mm	VEF 80 mm	VEF 80 mm
Electrical brakes	√	√	√	√
Battery operated (Li ion)	√	√	√	√
Standard back section compatibility	√	√	√	√
Beach chair back section compatibility	–	√	–	√
Eye-ENT back section compatibility	√	√	√	√
Kidney-bridge back section compatibility	√	√	√	√
Official product name: Practico 145000				

√ = included

– = not available



Health Technology with a Human Touch

Made in Finland with respect
for our unique nature.



MERIVAARA CORP.

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MERIVAARA WORLDWIDE

Merivaara's headquarters, with R&D, production, sales, marketing and after-sales service functions, are located in Lahti, Finland. Merivaara has subsidiaries in Sweden (Merivaara AB), UK (Merivaara Ltd) and a sales organisation in Russia. Additionally, Merivaara's products are sold in more than 120 countries by a network of distributors.

The status of the information, specifications and illustrations in this publication is indicated by the date of publication. Whilst

the greatest care has been taken over its compilation, Merivaara Corp. is not responsible for any errors or omissions. Merivaara Corp. reserves the right to make changes to the technology, features, specifications and design of the equipment and models without notice. Please check the Merivaara website for the latest updated specifications and other information.

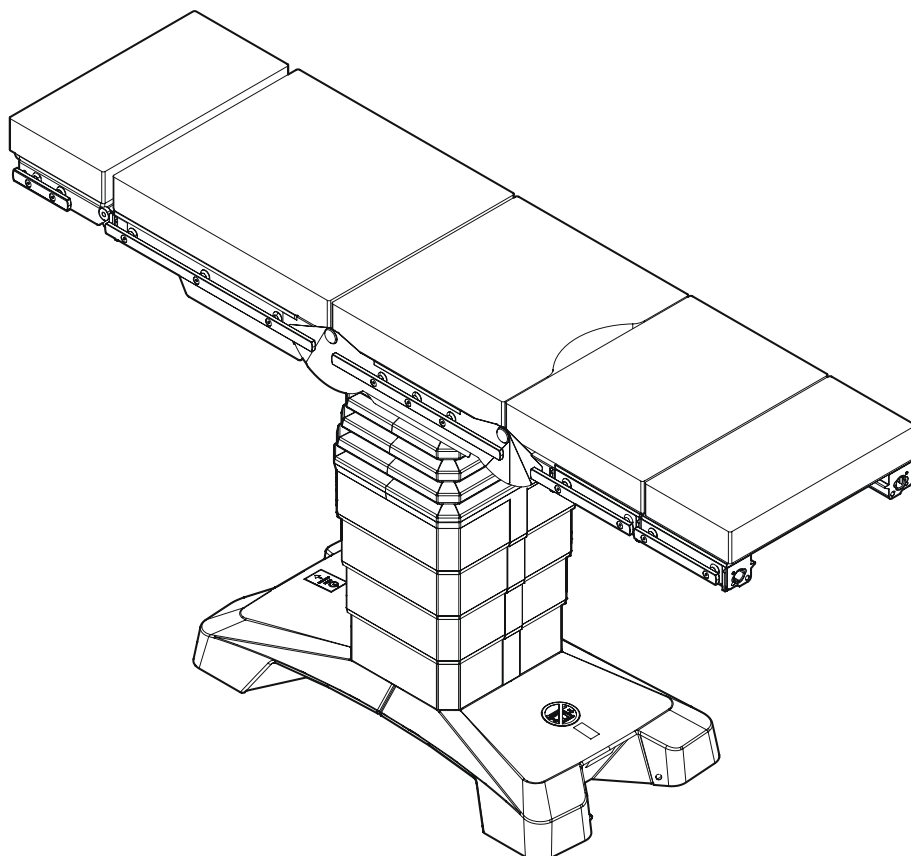
Note: All illustrated patient positions are only examples and different kind of procedures can be made based on personal or cultural needs. Proper patient positioning needs to be made by trained professional.

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Practico 145000 Operating Table User Manual



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1 Warnings, cautions and notes

1.1 Overview

To ensure optimal patient safety, all users must read this user manual carefully and be familiar with the correct use of the product as well as all warnings, cautions and notes.

Warnings and notes found in this user manual are indicated with symbols as follows:

WARNING

Please observe to ensure user, maintenance personnel and patient safety.

CAUTION

Please observe in order to avoid causing damage to the equipment or its parts.



Note: Please observe in order to improve equipment properties.

1.2 General warnings

WARNING

Use the Practico table only in facilities made for medical purposes. Read this manual thoroughly, and be familiar with its content before using this equipment.

WARNING

Any serious incident that has occurred in relation to the device must be reported to the manufacturer and the competent authority of the state in which the user and/or patient is established

WARNING

You can adjust the operating table with several active control units: with a cabled hand control unit, foot switch and back-up panel. The movement of the table stops, if another control unit is used simultaneously. Only one person can be responsible for adjusting the table

WARNING

The antistatic properties of the table require the use of original brand mattresses.

 WARNING

Use only permitted table top configurations that are illustrated in this manual.

 WARNING

Use only accessories recommended by Merivaara Corp.

 WARNING

The table weighs about 225 kg.

 WARNING

Note that the safe working load (SWL) of a Practico operating table may vary according to the chosen leg section.

 WARNING

IP X4 classification is valid only when the mains cable is disconnected.

 WARNING

No modification of this equipment is allowed.

 WARNING

Do not use combustible anaesthetic gases with the Practico operating table.

 WARNING

Always follow manufacturer instructions when using electrosurgery devices to ensure proper precautions and to minimize risks regarding patient burns, explosions and electric shock to the patient or surgeon.

 WARNING

Make sure that the table is used, transported and stored as described in this manual.

 WARNING

Make sure there are no exposed metal portions of the operating table (especially the leg and back section pivots, or accessory rails), that the patient or the surgical personnel can touch during electrosurgery. Hazard of burn injuries when using return electrodes!

 WARNING

The operating table must only be used in the electromagnetic environment specified in the EMC guidance. The customer or the user of the operating table must assure that it is used in such an environment.

⚠ WARNING

The Practico operating table has been tested according to IEC/EN 60601-1 to ensure proper electromagnetic compatibility. Other products used in the vicinity of the Practico operating table must also comply with this standard. If they do not comply, interference between products may occur. Please contact the appropriate manufacturer if any problems arise.

⚠ WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment (Merivaara Corp.) can result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment. This can result in improper operation.

⚠ WARNING

Portable and mobile radio frequency (RF) communications equipment can affect the Practico operating table.

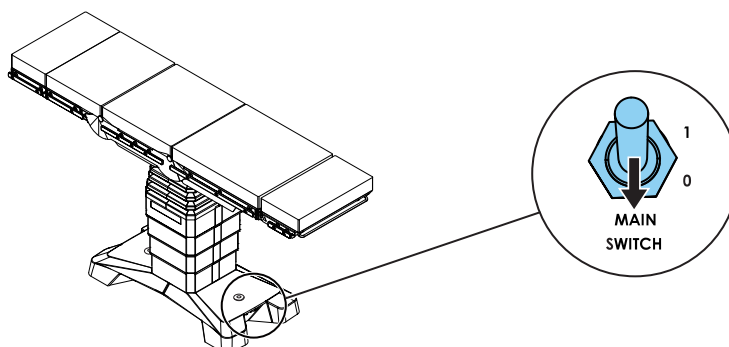
⚠ WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) must not be used no closer than 30 cm (12 inches) to any part of the ME equipment or ME system, including cables specified by the manufacturer. Otherwise, the table may not work properly.

1.3 Mains warnings

⚠ WARNING

In case of malfunction, use the main switch to stop all table functions and disconnect the mains cable from the wall socket. The main switch is located on the table base casing. To stop all table movements, turn the switch lever to OFF position (the lever tip pointing downwards) and disconnect the mains cable.

**⚠ WARNING**

Use only mains cables rated as 250 V, 10 A, 5 m.

 WARNING

If the main switch is turned to OFF position (downwards), all table functions are blocked.

 WARNING

Do not block mains inlet with external item(s).

 WARNING

Disconnect the mains cable from the table and set the main switch to OFF position before cleaning the table. Hazard of electric shock!

 WARNING

Disconnect the mains cable from the table before any service procedures. 100–240 V~ is used in power unit in the table base. Hazard of electric shock.

 WARNING

When you recharge the battery, first plug the mains cable to the operating table inlet, then to a wall outlet and turn the main switch on.

 WARNING

When recharging is completed, disconnect the mains cable first from the wall outlet and then from the table inlet.

 WARNING

Set the main switch to OFF position (downwards) when the table is not in use or if it is stored for a longer period of time. This eliminates the possibility of unintended use and saves the battery capacity.

 WARNING

Use of alternative isolation transformer model (for example, transformer is integrated in the operating room electrical power network) is accepted, if on-site verification is performed before operating table is used in surgical operation:

- Leakage currents must be measured according to IEC/EN 62353.
- Measured leakage currents must fulfill limits according to IEC/EN 60601-1.

 WARNING

Do not simultaneously touch the operating table external electrical connections and the patient during the operation.

 WARNING

The antistatic properties of the table require the use of original brand mattresses.

 WARNING

Use the potential equalization conductor with patient monitoring equipment. The conductor terminal is located next to appliance inlet at the back side end of the lower frame. Look at the Medical Electrical System requirements as specified in *standard IEC/EN 60601-1, Clause 16*.

 WARNING

When using high frequency surgical equipment, for example, diathermy or defibrillation equipment, prevent the patient from coming into contact with metal parts of the table or accessories. Do not place the patient on wet or damp surfaces or electrically conductive pads. Hazard of burn injuries!

 WARNING

The operator and other personnel must not touch the patient or the operating table or any other equipment which is in contact with the patient during defibrillation. Always follow the instructions for use provided by defibrillator manufacturer when you defibrillate a patient on the operating table.

1.4 Internal battery warnings

 WARNING

The operating table must only be operated on its internal battery if the integrity of the protective earth conductor arrangement is in doubt.

 WARNING

If the operating table has been in the cold, allow it to warm up at room temperature for at least 6 hours before recharging the battery or switching it on, to allow any condensation formed to evaporate.

 WARNING

Recharge the battery before use.

 WARNING

When you recharge the battery, first plug the mains cable into the table appliance inlet and then to the wall outlet and turn the main switch on.

 WARNING

When recharging is completed, disconnect the mains cable first from the wall socket, after that from the table appliance inlet.



Note: Recharge the battery overnight after a day's use. This way the table will be always ready for use and the battery will have a longer service life. Typical service life for the battery is about 3 years if recharged properly.



Note: If the main switch is turned to the OFF position (downwards), all table functions are blocked, including recharging of the battery. When the power is ON, the green battery status LED on the hand control unit and back-up control unit light up.

1.5 Patient handling warnings

WARNING

Adjust the table top to the horizontal position (-0- position) with the hand control unit before transporting a patient.

WARNING

Place the patient in the longitudinal centre of the table top only.

WARNING

Use extreme caution when transporting the table with a patient on. Transporting of the table with a patient on requires two persons. To maximize patient safety utilize proper restraint methods during transport.

WARNING

When using high frequency surgical equipment, for example diathermy or defibrillation equipment, take care to prevent the patient from coming into contact with metal parts of the operating table or accessories.

WARNING

Do not place the patient on wet or damp surfaces or electrically conductive pads when using diathermy or defibrillation. Hazard of burn injuries.

WARNING

Do not transport the table over thresholds higher than 10 mm.

 WARNING

The instructions for use provided by the defibrillator manufacturer must always be followed when defibrillating a patient on the operating table. The operator and other personnel must not touch the patient or the operating table or any other equipment that is in contact with the patient during defibrillation. The patient must not be in contact with any metal parts of the operating table during defibrillation.

 WARNING

Max. patient weight with the sliding seat or basic section is 280 kg.

1.6 High frequency equipment and EMC warnings

 WARNING

Always follow the manufacturer's instructions when using high frequency equipment, for example diathermy or defibrillation equipment.

 WARNING

The operating table must only be used in the electromagnetic environment specified in the EMC guidance. The customer or the user of the operating table must assure that it is used in such an environment.

 WARNING

The operating table has been tested according to IEC/EN 60601-1 to ensure proper electromagnetic compatibility. Other products used in the vicinity of the operating table must also comply with this standard. If they do not comply, interference between products may occur. Please contact the appropriate manufacturer if any problems arise.

 WARNING

Portable and mobile radio frequency (RF) communications equipment can affect the operating table.

 WARNING

When using high frequency surgical equipment, prevent the patient coming into contact with metal parts of the operating table or accessories. Always follow the equipment manufacturer's instructions. Do not place the patient on wet or damp surfaces or electrically conductive pads. Hazard of burn injuries.

 WARNING

Use a potential equalization conductor with patient monitoring equipment. Place the connector at the base of the table.

 CAUTION

The operation table has been tested to be compatible with HF surgical equipment. However, the operating table must be monitored for unwanted movements. If any unwanted movements occur, turn off the main switch to prevent further movements.



Note: The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required), this equipment might not offer adequate protection to radio-frequency communication services. The user might have to move the operating table to another place or different position.

1.7 Hand control unit warnings

 WARNING

Use the back-up control panel (override panel) functions in the case of hand control unit malfunction.

 WARNING

Keep the hand control unit on the lever under the head section, especially during transport.

1.8 Accessories warnings

 WARNING

Use only accessories recommended by the table manufacturer.

 WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment (Merivaara Corp.) can result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment. This can result in improper operation.

 WARNING

Always follow manufacturer instructions when using electrosurgery devices to ensure proper precautions and to minimize risks regarding patient burns, explosions and electric shock to the patient or surgeon.

 WARNING

Ensure that all accessories are properly mounted and not damaged or worn.

 WARNING

Check the function of the accessory locking and adjustments.

 WARNING

Use potential equalization conductors with patient monitoring equipment. The terminal is on the table base.

See Medical Electrical System requirements as specified in standard *IEC/EN 60601- 1, Clause 16*.

 WARNING

The head and leg section gas springs can be disposed of as metal waste after nitrogen gas and oil has been removed. Instructions for gas releasing are available from your sales representative.

 WARNING

Use of the operating table adjacent to or stacked with other equipment can result in improper operation. If the operating table is used in that way, compatibility with the other equipment must be observed to verify proper operation.

 WARNING

The operator and other personnel must not touch the patient or the operating table or any other equipment which is in contact with the patient during defibrillation. Always follow the instructions for use provided by defibrillator manufacturer when you defibrillate a patient on the operating table.

1.9 Operating table adjustment warnings

 WARNING

Activate the floor lock before adjusting the table.

 WARNING

Avoid collision between accessories and external obstacles.

 WARNING

Keep the patient's fingers, hands or other parts of the body away from the edges of the back, leg or seat section frames and pivoting points.

 WARNING

Check that the latches of the table top sections lock correctly. Incorrect attachment of table sections can cause injury or damage the equipment.

 WARNING

Downwards adjusted leg or back section may hit the table base or column casings depending on the used height, Trendelenburg or tilt angle adjustments. Risk of causing damage to the operating table and creating pinching hazard.

 WARNING

Do not place any objects on the base or under table top section. This can damage the equipment during adjustments.

 WARNING

If the table top seat section is adjusted towards the leg section, adjustment of the back section stops automatically before colliding to the column.

 WARNING

If the leg section of the table is pressed down without a patient load, play can be felt on the operating table top. Under normal operating conditions, a patient is positioned on the table top which eliminates the play and therefore causes no issues for normal use.

 WARNING

Activate the floor lock before adjusting the table. Only Trendelenburg adjustments can be made if the floor lock is not activated.

1.10 Care and cleaning warnings

 WARNING

Disconnect the mains cable from the table and turn the main switch to the OFF position before cleaning the table.

 WARNING

Clean mattresses with neutral detergent (ph 7–8) only. The antistatic properties of the operating table require the use of original brand mattresses and antistatic flooring.

 WARNING

Clean the Velcro tapes on table top plates with pressurized air. Replace when necessary; spare parts and instructions are available from your sales representative.

 WARNING

Do not use pressurized water: the table has been classified as splash proof equipment only. Cleaning and disinfecting must be done according to this manual.

1.11 Recycling warnings

 CAUTION

Gas springs can be disposed of as metal waste after nitrogen gas and oil has been removed. Instructions for releasing the gas is available from your sales representative.

**Note:**

Batteries contain lithium, and if replaced, need to be recycled in accordance with local environmental regulations.

Cardboard packing material is recyclable. Wood and plastics are energy waste.

2 General

2.1 About the user manual

The user manual is intended for healthcare professionals and it provides information about the use, functions and care of the Practico operating table.

Read the manual in its entirety before using the product. The user manual is regarded as a part of the product. Keep the user manual for future reference.

Information about the maintenance and service of the product is provided in the *Practico Maintenance Manual DO1142*.

2.2 Fluent Usability since 1901

Merivaara offers operating rooms a wide range of high-quality products, solutions, and services. The functionality and ease of use have been at the heart of the design since 1901 when the company was founded. We are proud that the company's values 120 years ago were so ahead of their time that they can still today be fully applied to the development of new and innovative solutions for healthcare professionals. Our user interfaces are developed together with hospital staff so that all our products and systems can be used intuitively. We call this Fluent Usability; operating room staff can focus on patient care, not on managing complex technologies.

Merivaara's medical products are CE-labelled and the company's quality management system complies with EU regulations for medical device. Company is certified by DNV according to ISO 9001 and ISO 13485 standards. Merivaara's environmental management system is ISO 14001:2004 certified.

Read more about Merivaara's products and solutions at www.merivaara.com.



2.3 Intended use

The operating table is intended to be used for supporting a patient during surgical procedures. The table must be used in an operating room environment by trained health care professionals only.

2.4 Essential performance

The operating table's essential performance is to support a patient without unwanted movements in a single fault condition.

2.5 User identification

The Merivaara Practico operating table and these operating instructions are intended to be used by:

- medical personnel and qualified technicians working at hospitals or at qualified legal agencies
- medical surgeries who have acquired working skills by undergoing medical training and who are in possession of necessary authorisation where required.

Mandatory personnel training for the use of the Merivaara Practico operating table must be carried out.

Because of importance of personal safety, read the safety precautions in chapter [Warnings, cautions and notes](#) before using the product.

Qualified personnel of the product owner must perform the necessary adjustments in accordance with the safety rules and precautions described in this manual.

In case of malfunctions or loss of essential performance, contact technical personnel immediately. Nursing staff or the persons involved in treatment or surgical procedures must not perform maintenance that requires technical training (technical personnel only).

Product cleaning and disinfection must be done by duly trained personnel according to the best practices in use at the facility, strictly following the instructions given in this manual.

Always disinfect the operating table before use.

Disregarding the guidelines presented in this manual is interpreted as a user error and results in the loss of the product warranty.

2.6 User training

The end user (nurse, medical doctor or other personnel who is involved in using the product) must be trained by an authorized trainer before using the product. Also the relevant technical personnel must be trained (IEC 62366).

The following trainings are available:

- End user training
- Technical personnel training

For more information on user training, refer to [User training guidelines T404658–2, page 104](#).

2.7 Standards and directives

As a manufacturer of medical devices and products for health care, Merivaara Corp. pays the greatest attention to the quality of both its products and its operational processes. Merivaara's products are CE-labelled and the company's quality management system complies with EU directives for medical devices, and is certified according to ISO 9001 and ISO 13485 standards. The company's environmental management system is ISO 14001 certified.

The product meets the following standards: IEC/EN 60601-1, and IEC/EN 60601-1-2 (EMC), CAN/CSA-C22.2 No. 60601-1:2014 and ANSI/AAMI ES60601-1:2005 + A1:2012 + C1:2009 + A2:2010. The table complies with the European Medical Device Regulation, MDR 2017/745 product class I, and bears a CE marking based on this classification.

2.8 Liability

The contents of this manual may be amended by Merivaara, without prior notice or any further obligations, in order to make changes and improvements. The reproduction, including partial reproduction, or translation of any part of this manual is forbidden without the written consent of Merivaara.

Merivaara reserves the right to change, cancel or otherwise amend the data contained in this document at any time and for any reason without prior notice because Merivaara is constantly seeking new solutions which lead to product evolution. Merivaara therefore reserves the right to make changes to the supplied product in terms of shape, fittings, technology and performances.

With regard to translations into languages other than English, reference must always be made to the English edition of this manual. To be able to use the product safely and efficiently, we recommend that you read this manual and inspect the included images.

Merivaara does not take responsibility of the consequences if the system contains other suppliers' material or components. All parts of the system must be tested according to IEC/EN 60601-1.

This user manual is regarded as a part of the product. It must be kept in close vicinity of the product at all times.

Rights to technical changes reserved. Pictures and technical data in manuals can slightly differ from the current product due to further development of the product.

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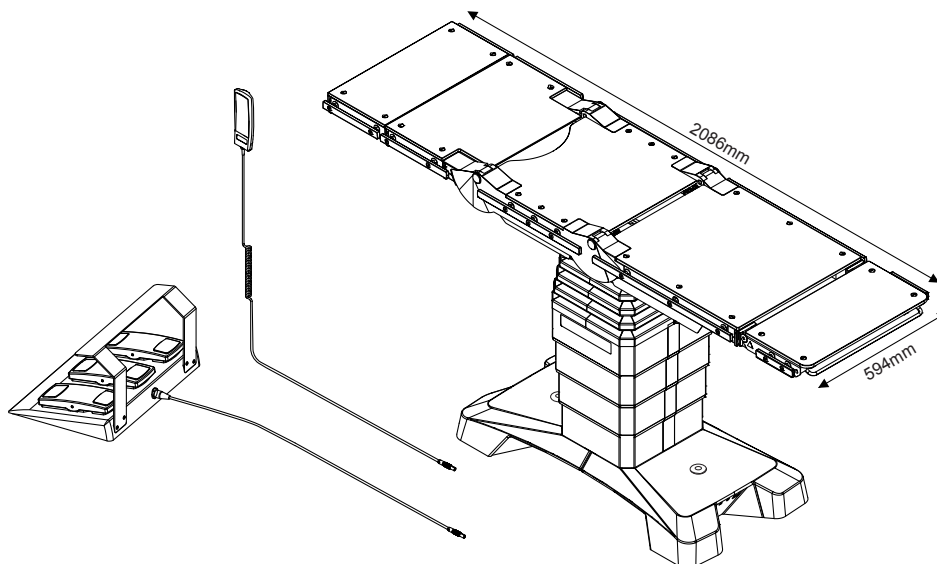
2.9 Operating characteristics

Practico is a transportable electro-mechanical battery and mains-operated operating table. Its safe working load (SWL) is 280 kg. Product modularity and wide adjustment ranges make it flexible and easy to use. The table can be connected to a 100– 240 VAC mains power system. The secondary voltage is 33 VDC. The table electronics are grounded and equipotential connection provides additional potential equalization.

The Practico table top consists of a fixed or sliding seat section combined with a back section selected from the 5 factory-installed options. Different types of head and leg

sections can be used depending on the surgical concept and operation. The width of the table top is 594 mm and maximum length is 2086 mm, when standard table top sections are used. Table top plates are x-ray translucent.

Practico is adjusted using a wired hand control unit. Foot control is an optional accessory. There is a back-up control panel on the table column to ensure safe operation in the case of hand control unit malfunction.



Safe and fault-free use and maintenance of the table requires that you read these instructions carefully. When using and mounting accessories, follow their instructions carefully. Always keep the instructions of the accessories together with this manual. Use original Merivaara operating table accessories for maximum performance.

2.10 Table models and configuration

The Practico operating table has been constructed from the modules specified in the table below. The table top consists of two factory-installed components which are not interchangeable. These are:

- Back section
- Leg section according to the functionality type

The other modules are presented in the table below. The final product is named with a model name if it is selected from the pre-selected sales packages. The modules and the serial number are indicated on the identification plates.

Frame model	• Without slide • With slide (longitudinal shift of the operating table top)
Lifting column	• Basic version • Low version • High version

Leg sections	• All Practico leg sections • Electrically adjustable (motorised) standard leg sections • Additional leg sections from Merivaara
Leg section functionality	• Motorised leg sections — with actuators for the leg section, with inductive sensors for the leg section • Non-motorised leg sections — No actuators for the leg section, no inductive sensors for the leg section
Back section	• Basic • Short • Beach Chair • Eye-ENT • Kidney Bridge
Head sections and headrests	• All standard head sections defined for Practico • Additional head sections from Merivaara • Special head sections with back section adapter
Accessory rails	EUR, UK, USA
Mains cable	Configured by mains supply system (medical grade)
Optional accessories	• 5th wheel • Foot Control Unit

2.11 Package label

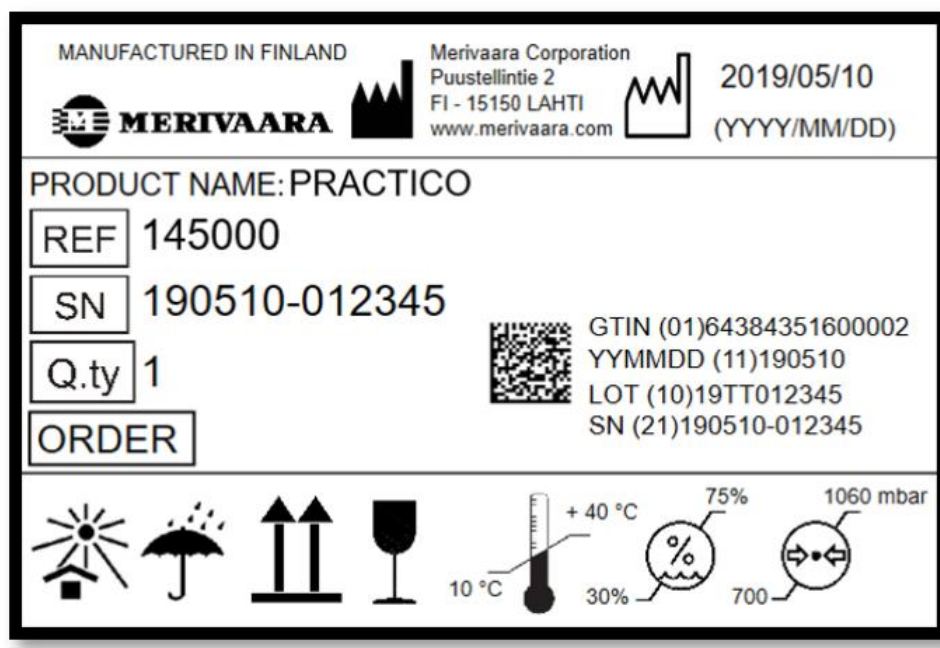


Table 1. Package labels

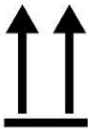
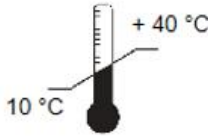
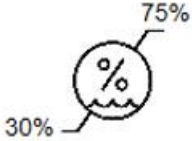
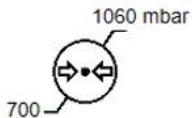
	Keep away from sunlight
	Keep dry
	This side up
	Fragile, handle with care
	Temperature limit

Table 1. Package labels (continued)

	Humidity limitation
	Atmospheric pressure limitation

3 Use

3.1 Before use

To ensure optimal surgical safety, all users must read these instructions carefully and be familiar with the correct use as well as all warnings and observations.

Using the product for other than health care or medical purposes is strictly prohibited.

WARNING

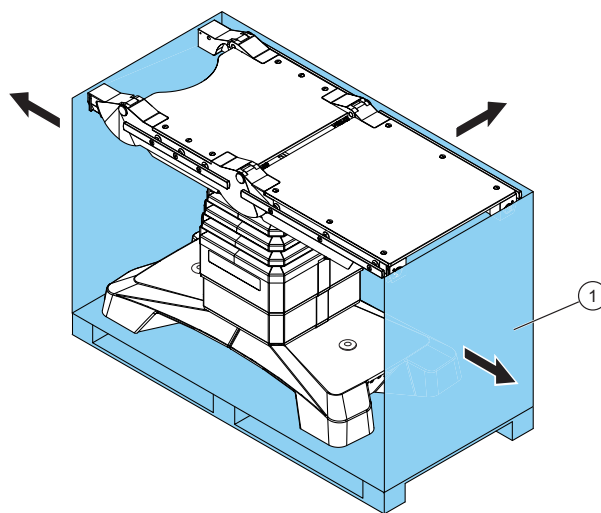
Two people are required to unpack/pack the operating table. Be careful, the table weighs about 230 kg.

The operating table is shipped pre-assembled excluding removable table top sections and control units.

1. Check the package for possible transport damages.
2. To unpack the Practico operating table, refer to **T405581** in **Attachments**.
3. Clean and disinfect the table before use according to the instruction in Chapter [6.2 Cleaning, page 84](#).



Note: Cardboard packing materials are recyclable. Wood and plastics are energy waste.

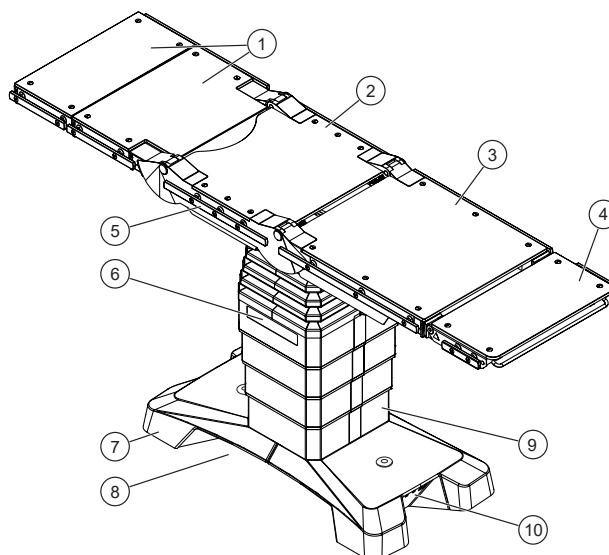


CAUTION

If the table has been in cold temperatures during transport or storage, allow it to warm up to room temperature for at least 6 hours before recharging the battery or connecting power. This ensures that the possible condensed humidity has time to evaporate.

3.2 Construction

3.2.1 Main parts



1. Leg section or (lower leg section with foot extension)
2. Seat section
3. Back section (standard)
4. Head section with optional accessory rails
5. Accessory rail(s)
6. Back-up control panel
7. Table base casing with floor lock
8. Drive wheel/directional wheel
9. Lifting column
10. Main switch (ON/OFF) and electrical connections

3.2.2 Symbols and label markings

Table 2. Mains power connection and fuses

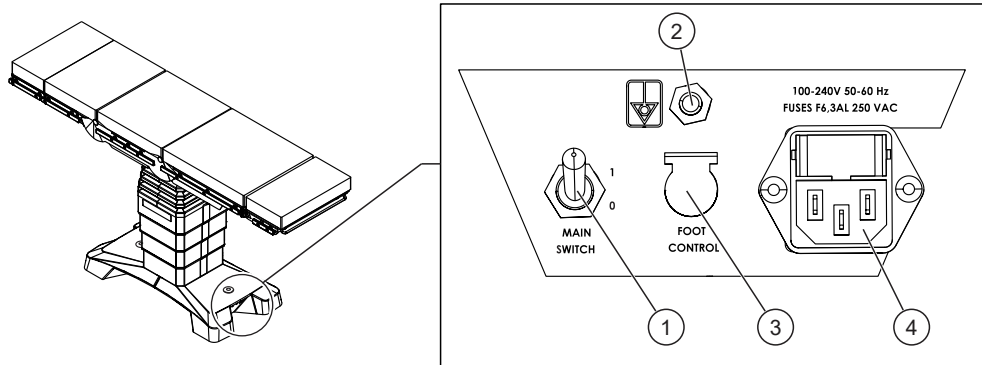
Input voltage range	100 to 240 V
Alternating Current, AC	~
AC frequency range	50/60 Hz
Mains fuses	F6.3AL / 250 VAC Ø5 X 20 (2 pcs)



Note: The Medical Electrical System requirements are specified in standard *IEC/EN 60601-1, clause 16*.

3.3 Control devices and functions

3.3.1 Main switch

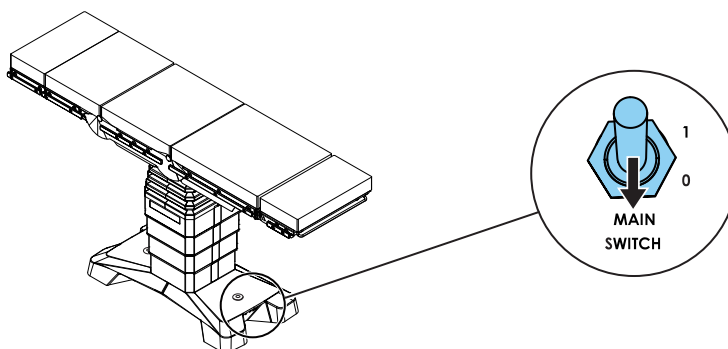


The main switch is located on the table base on the head section side of the table.

1. Main switch
 - 1 - ON upwards
 - 0 - OFF downwards
2. Equipotential connector
3. Foot control unit socket
4. Mains inlet with fuse box

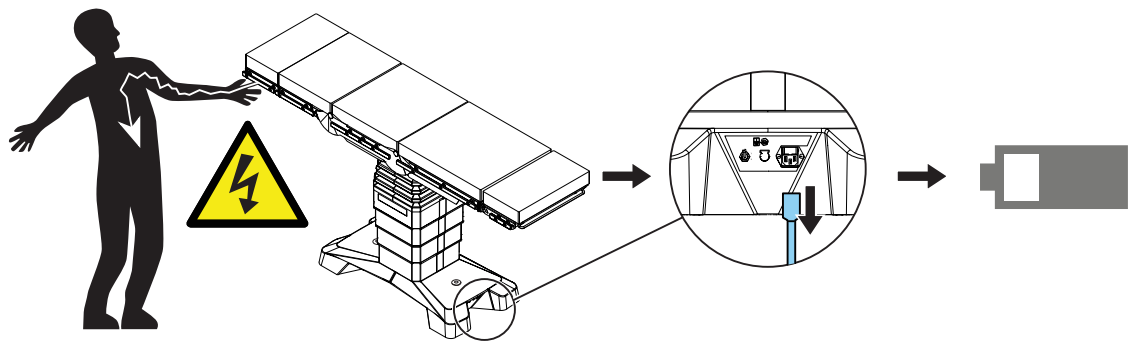
WARNING

The main switch is located on the table base on the head section side of the table. You can stop all table movements immediately by setting the main switch to the OFF position (lever tip pointing downwards).



WARNING

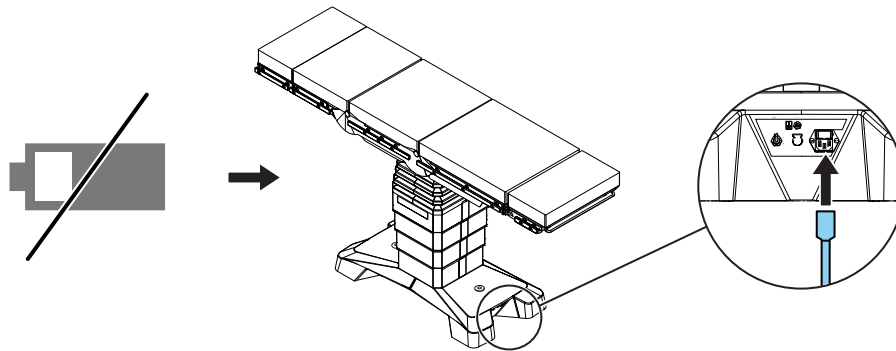
IF PROTECTIVE GROUND IS SUSPECTED TO BE UNRELIABLE.



Disconnect the mains cable and use the operating table in battery mode.

⚠ WARNING

IF POWER SUPPLY FAILURE OCCURS DURING BATTERY MODE AND IN CASE OF BATTERY MALFUNCTION.



Connect the mains cable to the mains inlet and isolated wall socket.

3.3.2 Electrical connections and powering up the table

1. Make sure that the main switch is in the OFF position.

⚠ WARNING

To avoid voltage surges, switch the power OFF before connecting/disconnecting any cables.

2. Check the mains cable condition.

⚠ WARNING

Never use a damaged cable. Only use a cable rated 250 V, 10 A

3. Plug the mains cable to the mains inlet.

4. Connect the other end of the mains cable to an earthed wall outlet. This powers the table in mains mode.

 WARNING

Use earthed wall outlet only.

5. Power up the operating table by setting the main switch to the ON position.

Charging starts automatically when the main switch is set to the ON position. The start of charging is indicated with a buzzer NOTE notification sound, and the yellow battery LED starts to blink SLOW FLASH. The table can be used during charging.

 WARNING

Do not move the table during surgery and if the mains cable is connected.

 WARNING

Disconnect the mains cable from the table before any service procedures. 100-240 VAC ~ used in the control unit placed inside table base. Hazard of electric shock.

 WARNING

Use potential equalization when using patient monitoring equipment. The connector for potential equalization is next to the appliance inlet. See manufacturer's instructions for more information. Cable available on request, order number 7134261, 5 m.

 WARNING

Switch the power OFF if the table is not in use or is going to be stored for a longer period of time. This will save battery capacity and eliminate the possibility of unintended use.



Note: Switching the power OFF will stop all table functions including charging.



Note: Charge the table battery before use.

3.3.3 Recharging of battery and mains use

Recharge the battery overnight after day's use to have the table ready for the next day and for a longer service life. Typical service life for the battery is about 3 years if recharged properly.

- The table can be adjusted during charging.



Note: When recharging is completed, disconnect the mains cable first from the wall socket and then from the table inlet.



Note:

Use of an alternative isolation transformer model (e.g. transformer is integrated in the operating room electrical power network) is accepted if on-site verification is done before the table is used for surgical operations.

Leakage currents must be measured according to IEC/EN 62353

Measured leakage currents must fulfil limits according to IEC/EN 60601-1.

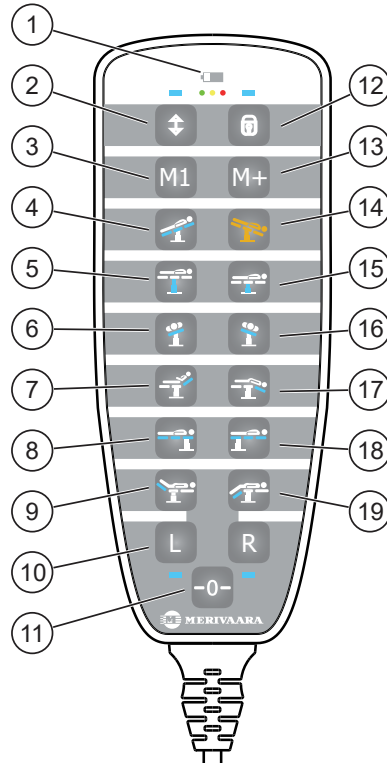


Note: Batteries contain lithium and if replaced, they must be recycled in accordance with local environmental regulations.

3.3.4 Hand control unit

The hand control unit is the primary control device for the table.

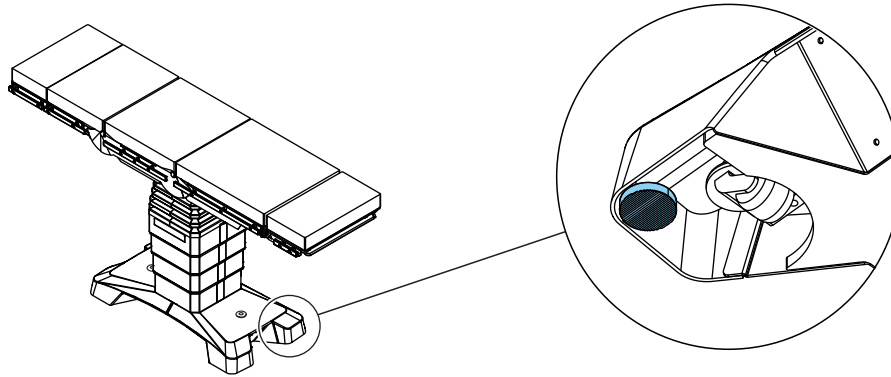
There are four types of hand control units available for the table. The one presented here is for the fully equipped Practico. The one delivered with your table might contain fewer functions.



- | | | | |
|----|---|----|--------------------------------------|
| 1 | Charging / battery status LEDs | 12 | Floor lock |
| 2 | 5th wheel | 13 | Store settings to preset |
| 3 | Preset | 14 | Trendelenburg |
| 4 | Anti-Trendelenburg | 15 | Height adjustment Down |
| 5 | Height adjustment Up | 16 | Lateral tilt Right |
| 6 | Lateral tilt Left | 17 | Back section Down |
| 7 | Back section Up | 18 | Forward "Slide" (longitudinal shift) |
| 8 | Reverse "Slide" (longitudinal shift) | 19 | Leg section DOWN |
| 9 | Leg section UP | | |
| 10 | Individual controls for each leg adjustment | | |
| 11 | -0- position | | |

3.3.5 Locking system

The floor lock function cannot be switched off inadvertently when the operating table is connected to the mains.



3.3.5.1 Lock

To activate the floor lock, press continuously the floor lock button on the hand control unit or on the back-up control panel to lower the table onto the locking feet. The movement stops when you release the button.

A blue blinking light of the floor lock button and a beeping sound indicate that the brake actuator is between defined positions.

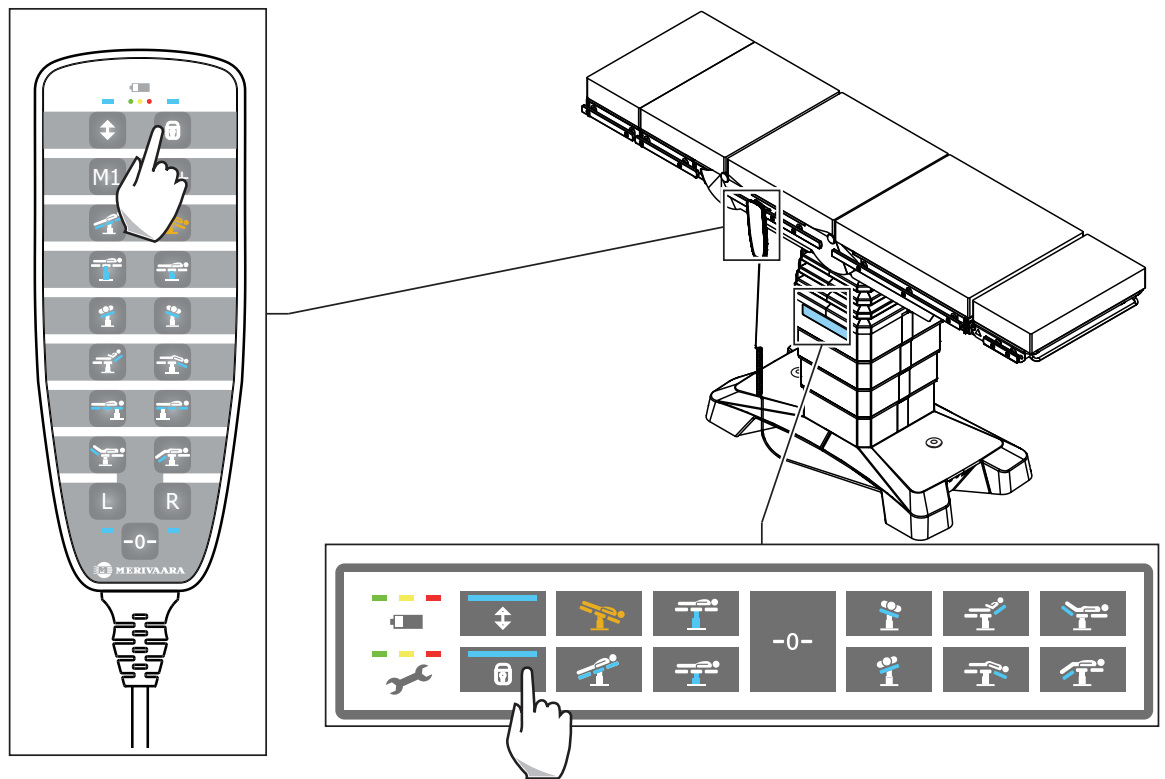
When the brake actuator reaches the floor lock position, the movements stops with a long beep and floor the floor lock LED is constantly on.

3.3.5.2 Unlock

To lift the table off from the locking feet, press the 5th wheel button continuously. The movement stops when you stop pressing the button. A blue blinking light of the floor lock button and a beeping sound indicate that the brake actuator is between defined positions.

When the brake actuator reaches the neutral wheels area, the movements stops with a long beep. Both the 5th wheel and the floor lock LEDs are constantly on.

Press the 5th wheel button again to continue and to activate the 5th wheel. A blue blinking light of 5th wheel and a beeping sound indicate that the brake actuator is between defined positions. The movement stops with a long beep after the 5th wheel position is reached and the 5th wheel LED is constantly on.



 WARNING

Do not release the floor lock during the operation. Hazard of the operating table tipping.

3.3.5.3 Brake emergency release

If, for any reason, the normal unlocking and release of brakes does not work, you can use the emergency release mechanism.

 WARNING

The patient must not be on the table when the emergency release is used. It must be used for moving the table only.

Important

Use the brake emergency release only when you are sure that normal unlocking is not possible.

1. Break the brake emergency release labels (2 pcs) at both ends of the table base.
2. Remove the white plastic plug that covers the hole in the base by turning it counterclockwise.
3. The release nuts are exposed in the holes.



4. Turn the bolts using a 13 mm socket wrench until the table is standing on its wheels.
5. Adjust the height of the table to the transport position (690 mm), if possible.
6. Move the table to the required place.
7. Turn the brake emergency release nuts back to their original positions.
8. Paste a new intact sticker on top of the hole.

3.3.6 LED indicator lights and sounds

Indicator LEDs

When the power is ON, the green battery status LED on the hand control unit and back-up control unit light up. Maintenance indicators light up.

When the mains cable is disconnected and the power is OFF, all table functions are stopped, including charging.

Figure 1. Hand control unit battery LED indicators

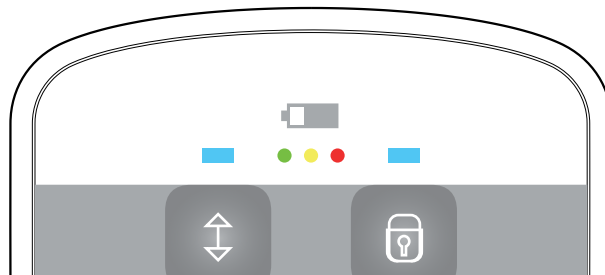


Figure 2. Back-up panel battery and maintenance LED indicators



Battery level indicator:

- Red = Low, charging required. Only Trendelenburg adjustments available.
- Yellow = Charging recommended, not mandatory
- Green = Battery full

Lock indicator:

- Blue = Table in Floor lock position

5th wheel indicator:

- Blue = 5th wheel down

Charging indicator:

- Green = Battery full (capacity over 90%)
- Yellow blinking SLOW FLASH = Charging in progress

Status indicator:

- Indicator light OFF = Operating table is in power saving mode

Maintenance indicator lights (back-up control panel only):

- Green = Operation table is ready to use
- Yellow = The operating table is usable with some limitations. Some functions are restricted. Recommended to contact Merivaara Service.
- Red = Operation table is out of order. Contact Merivaara Service.

Indicator sounds

Continuous beeping:

- Automatic adjustment is ongoing.

Continuous beeping, backup panel:

- Adjustment is done with Back-up panel.

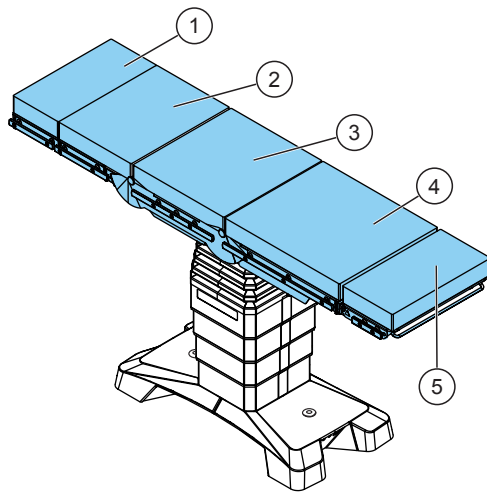
Double beep:

- You will hear the SOFTWARE RESTRICTION beep if adjustment is restricted or restriction is activated.

Single beep:

- NOTE beep: Activated function has reached the end position.

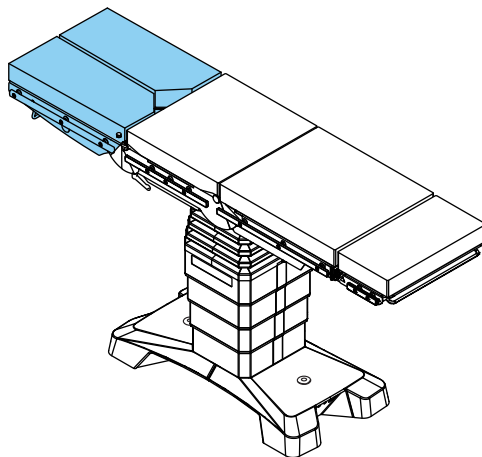
3.4 Table top configurations



Maximum number of sections in one configuration is 5. The leg section can be divided.

- 1 Foot extension
- 2 Leg section
- 3 Seat section
- 4 Back section
- 5 Head section

Figure 3. Operating table with divided leg sections



Illustrations above show the recommended configurations. Place the patient so that the weight is divided on the table top as evenly as possible.

 WARNING

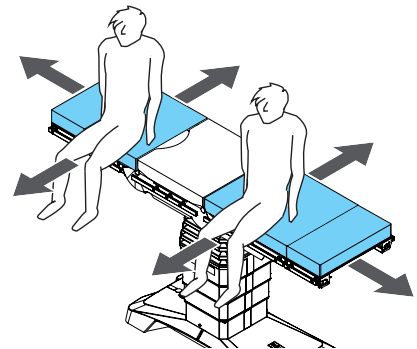
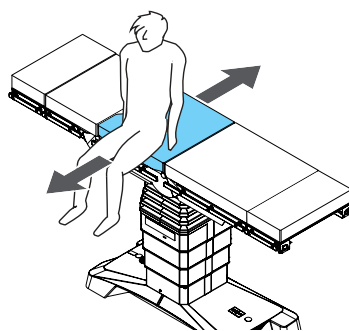
Extended leg section means Promerix 40-section plus divided leg section configurations. Safe Working Load (SWL) for this kind of setup is 160 kg when the extended leg section is used as an extension for the following sections: 40, 40-gyn, 25 or 25-gyn. In addition, the SWL is always 160 kg when the extended leg section is used with the four-part leg section 60484. Reason for this limitation is stability. The table overbalances when the load is more than 160 kg when slide is at the maximum position in the leg end.

 WARNING

Reverse positioning of the patient is not allowed. Use recommended table top configurations only.

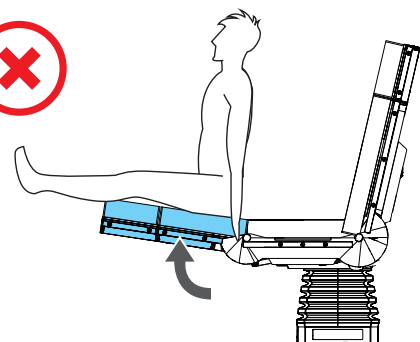
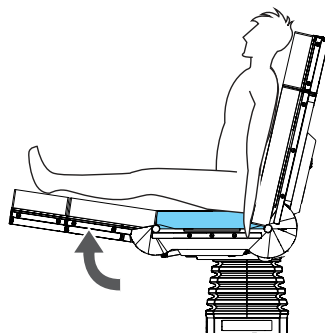
 CAUTION

The patient must always exit and enter the operation table via the seat section only.



 CAUTION

Lifting the patient with motorized leg section is forbidden.



3.4.1 Practico back sections

The back section model is selected when ordering the table from the factory. The back section is electrically adjustable in all factory-assembled models and it can include special features (for example for shoulder arthroscopy).

Figure 4. Operating table frame with standard/basic back section

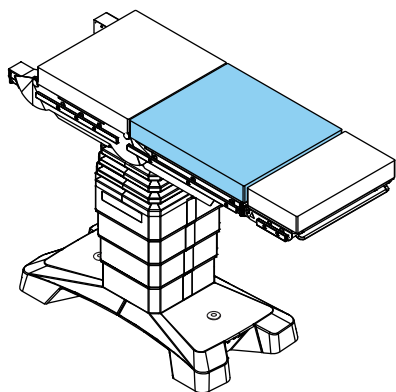
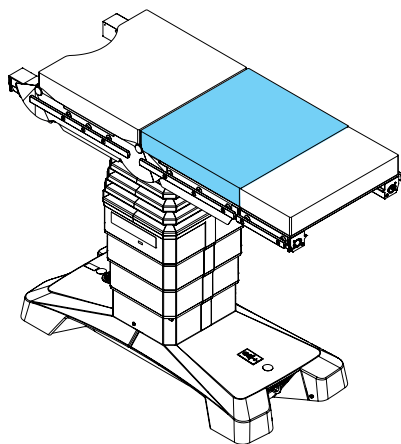


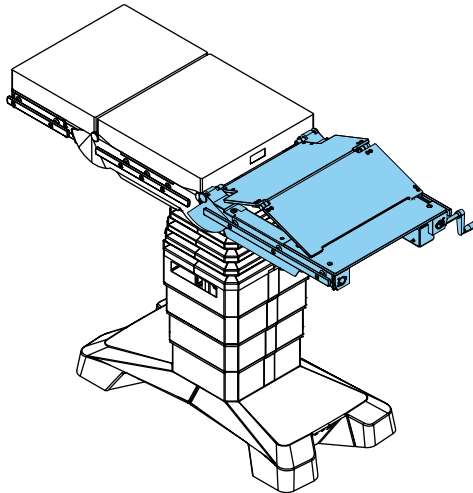
Figure 5. Operating table frame with short back section



3.4.2 Integrated kidney bridge back section

The factory-assembled kidney bridge back section adds more versatility to the use the table on thorax area procedures. Adjust the kidney bridge using crank handle. Make sure you are familiar with using the kidney bridge with the body elevator system before operation.

Figure 6. Operating table frame with integrated kidney bridge back section



1. Insert the crank handle fully into the slot on the right-hand side of the kidney bridge.
2. Turn the crank slowly counterclockwise to rise the section to the desired angle.



Note: Keep the crank handle in a safe place and remove it before operation or transportation.

Adjust the back section angle using the hand control unit or the back-up control panel.

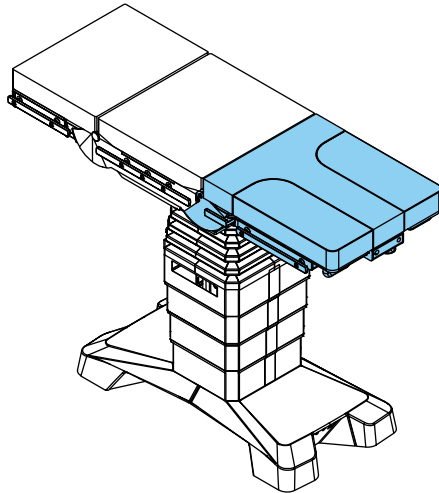
The long combined seat and back section mattress are used with the kidney bridge back section system.

WARNING

Pinch point hazard if adjustment is made carelessly.

3.4.3 Practico beach chair back section

Figure 7. Operating table frame with beach chair back section



To remove the shoulder sections:

1. Press the release knob with your thumb.
2. Hold the section with the other hand and lift it up slightly.
3. Pull the section towards yourself when it is in the outermost position (approx. 45° from the table top).

To attach the shoulder section:

1. Put the fixing groove to the bracket bar below the back section top plate edge.
2. Lift and push the section up until the fixing pin “clicks” into the fixing slot.

The headrests are fixed to the beach chair back section with a single easy-to-use knob system. Merivaara headrests, for example the special headrest 20126 for shoulder arthroscopy or 18101 for general surgery, give a good support to the head (ordered separately).

WARNING

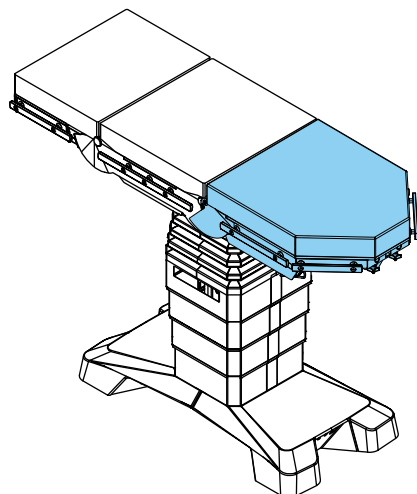
Always use both hands when you attach or remove the shoulder section. Ensure that the shoulder section and headrest are locked properly.

WARNING

To avoid injury to the patient or user, do not attach large accessories to the rails of the headrest or head section.

3.4.4 Eye-ENT back section

Figure 8. Operating table frame with back section for Eye-ENT



A back section for ENT (Ear, Nose and Throat) as well as for eye care and eye surgery.

3.4.5 Attaching and removing table top sections

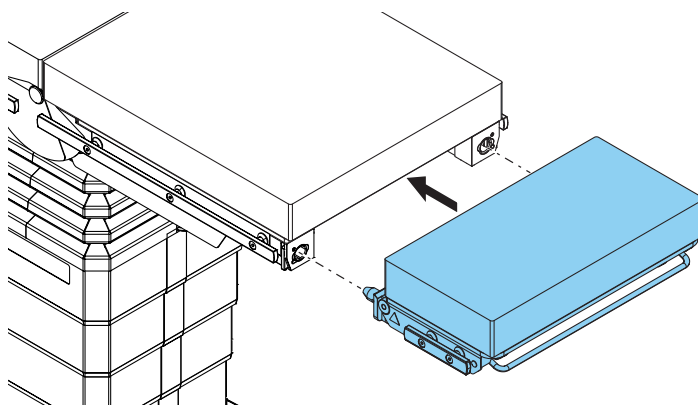
Attach or remove leg and head sections to construct the table top to meet the requirements of the surgical operation.

WARNING

Check that table top section latches are correctly locked to avoid injury or damage to the equipment!

3.4.5.1 Attach

1. Insert the guide pins on the head or leg sections evenly to the holes in the table sections.
 - When the attached section is fully inserted, the locking latches will snap into place.



⚠ CAUTION

Attach maximum two sections to the leg side of the column and one head section or headrest to the back side.

⚠ WARNING

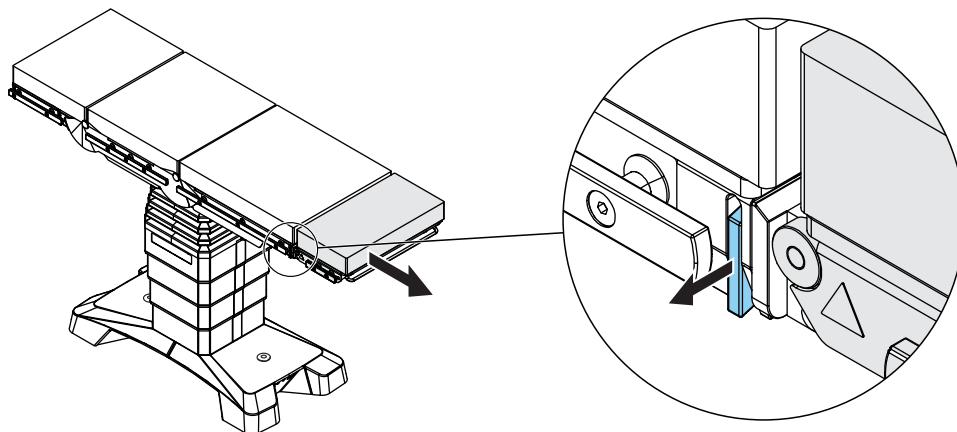
Do not attempt to remove or attach more than one section at a time. Always handle sections by the rails on the side, especially the headrest.

⚠ WARNING

Make sure that table top sections latches lock correctly. Incorrect attachment of table sections can create a hazardous situation which can cause personal injury or equipment damage.

3.4.5.2 Remove

1. On both sides, pull the locking latches outwards.
2. Using your both hands, hold the section which is to be removed and pull it towards yourself.



3.4.6 Mattresses

⚠ WARNING

Pay special attention to overweight patients. Ensure sufficient supports for patient safety. Recommended Safe Working Load (SWL) for mattresses is 135 kg. Hazard of nerve injuries during long surgical operations.

⚠ WARNING

To prevent surface leakage, check the condition of the mattresses daily. Aged or damaged mattresses must be replaced for patient safety. Clean the mattresses according to the cleaning instructions presented in the Cleaning section.

 WARNING

Use only original mattresses. Do not use the table if the original mattresses can not be used.

 WARNING

An additional cushioning is needed with the original mattress set if the patient is heavier than 135 kg.

 CAUTION

Surface of the mattresses is electrically conductive. Clean the mattresses using neutral detergent (pH 7–8) and warm water applied with a single-use wipe.

 CAUTION

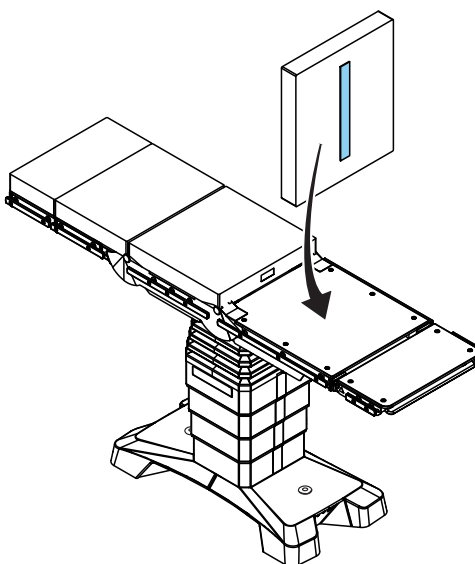
Check the condition of the mattress fixing slots and the surface before operation. Replace old or damaged mattresses for patient safety.

3.4.6.1 Visco-elastic foam (VEF) mattresses

Visco-elastic foam (VEF) mattresses are fixed with a durable Velcro hook and loop tape.

Clean Velcro hook and loop tapes on table top plates with pressurized air.

Velcro tape can also be replaced easily. Spare parts and instructions are available from Merivaara After Sales.



To ensure antistatic properties of the operating table:

- use original mattresses only
- the table must stand on a conductive floor surface

3.4.7 Practico leg sections

3.4.7.1 Motorised and non-motorised leg sections

Leg sections fall into two categories, based on the adjustment method:

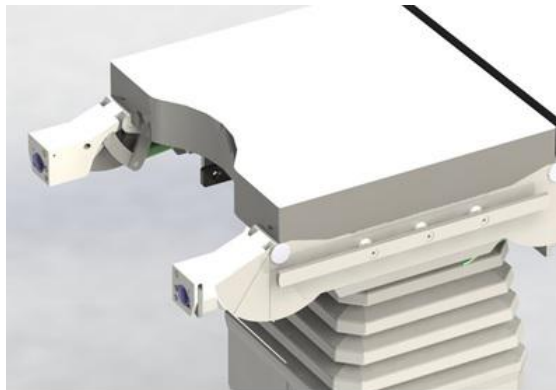
- Seat section with motorised leg section joints. The leg section is adjusted with the hand control unit.
- Seat section with non-motorised leg section joints. The leg section is adjusted with the adjusting bar. The adjustment is gas spring assisted.

Motorised leg sections are adjustable from -105° to $+70^{\circ}$.

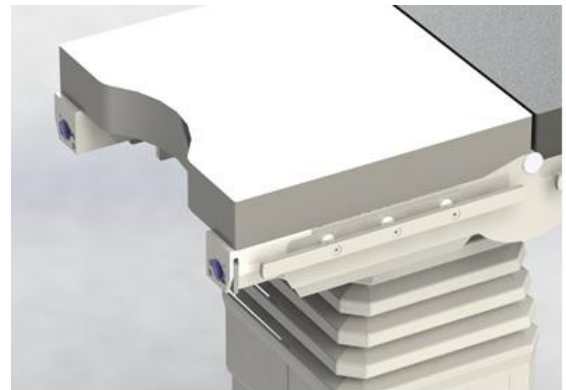
Non-motorised leg sections are adjustable from -90° to $+20^{\circ}$.

See [3.4.10.7 Adjusting leg sections, page 59](#)

Seat section with motorised leg section joints



Seat section with non-motorised leg section joints



3.4.7.2 Undivided one-piece leg sections

Undivided one-piece leg sections are vertically and horizontally adjustable and attached with a quick latch mechanism (see [3.4.5 Attaching and removing table top sections, page 41](#)).

You can adjust undivided one-piece leg sections as one piece, as opposed to divided leg sections (see below).

One-piece leg sections can be motorised or non-motorised (see above):

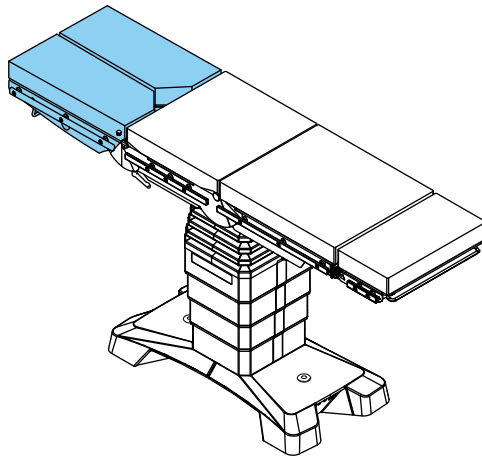
- If you have a motorised one-piece leg section, use the hand control unit to adjust the leg section.
- If you have a non-motorised one-piece leg section, use the adjustment bar to adjust the gas-spring assisted leg section. The position is locked when the adjustment bar is released.

See [3.4.10.7 Adjusting leg sections, page 59](#)



Note: One-piece leg sections that have foot rest extensions or other extensions are still considered one-piece leg sections.

3.4.7.3 Divided leg sections



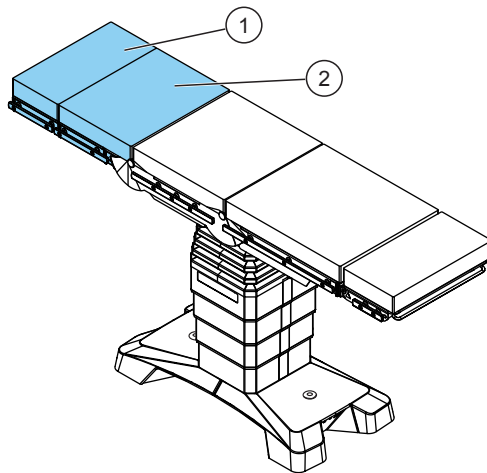
- Divided leg sections are vertically and horizontally adjustable and attached with a quick latch mechanism (see [3.4.5 Attaching and removing table top sections, page 41](#)).
- If you have a motorised divided leg section, vertical adjustment (-105° to $+70^{\circ}$) is done using the hand control unit.
- If you have a non-motorised, gas-spring assisted divided leg section, use the adjustment bar for vertical adjustment (-90° to $+20^{\circ}$). The position is locked when the adjustment bar is released.

See [3.4.10.7 Adjusting leg sections, page 59](#)

3.4.7.4 Leg section configurations and SWL

There are several leg section configuration options for Practico leg sections and foot rests depending on the type of the leg sections. The safe working load depends on which leg configuration is used. Below are listed different leg configurations and their safe working load. Follow these restrictions and note also configurations that are not allowed to be used in motorized leg sections.

Leg sections and foot rests can be easily changed (refer to [3.4.5 Attaching and removing table top sections, page 41](#)). The change operation is the same for [3.4.7.1 motorised and non-motorised leg sections, page 44](#).



1 Foot rest (25-section 60250)

2 Leg section (40-section 60440)

 CAUTION

Do not attach the leg section 60250 as the first section to the seat section with motorized leg section joints, because the gap between these sections is too big.

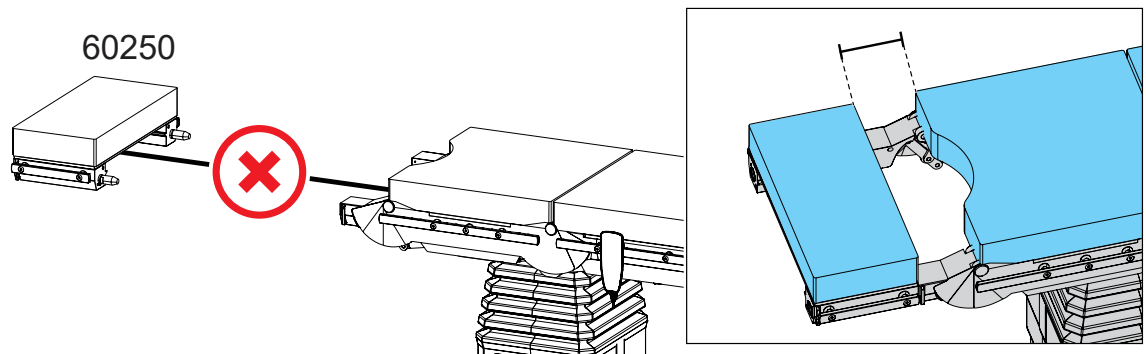


Figure 9. Motorized leg sections with SWL 160 kg

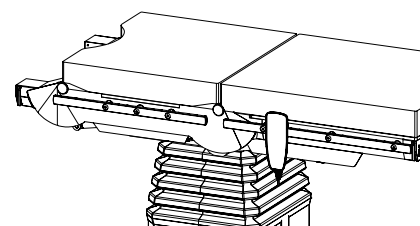
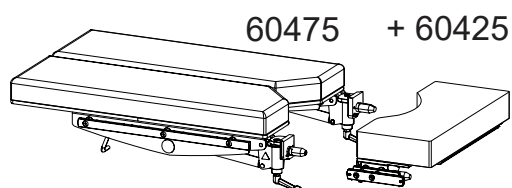
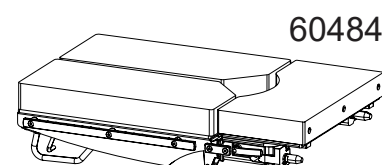
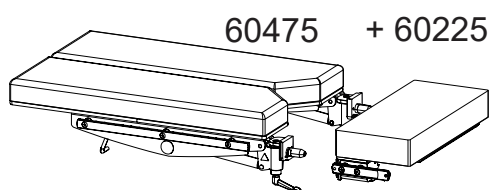
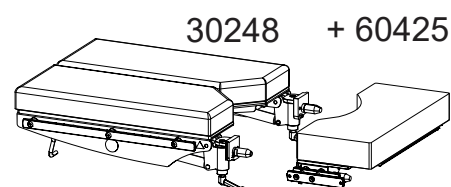
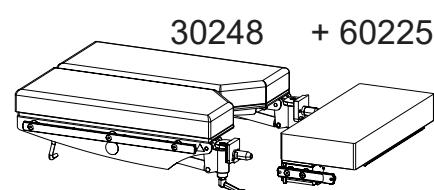
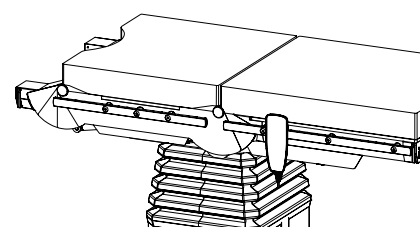
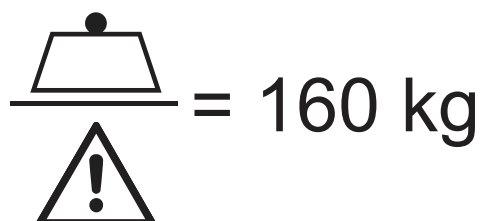
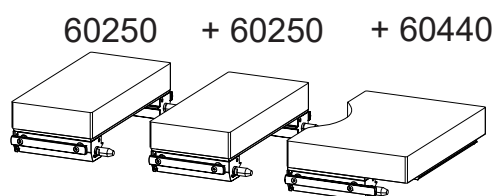
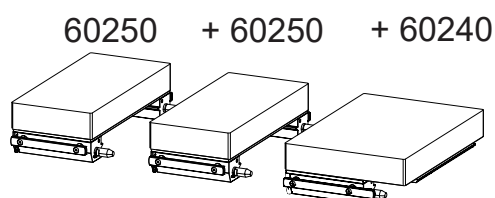
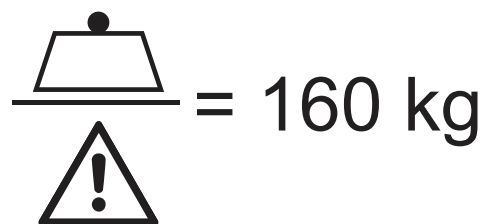
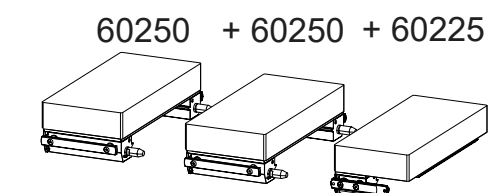


Figure 10. Motorized leg sections with SWL 280 kg

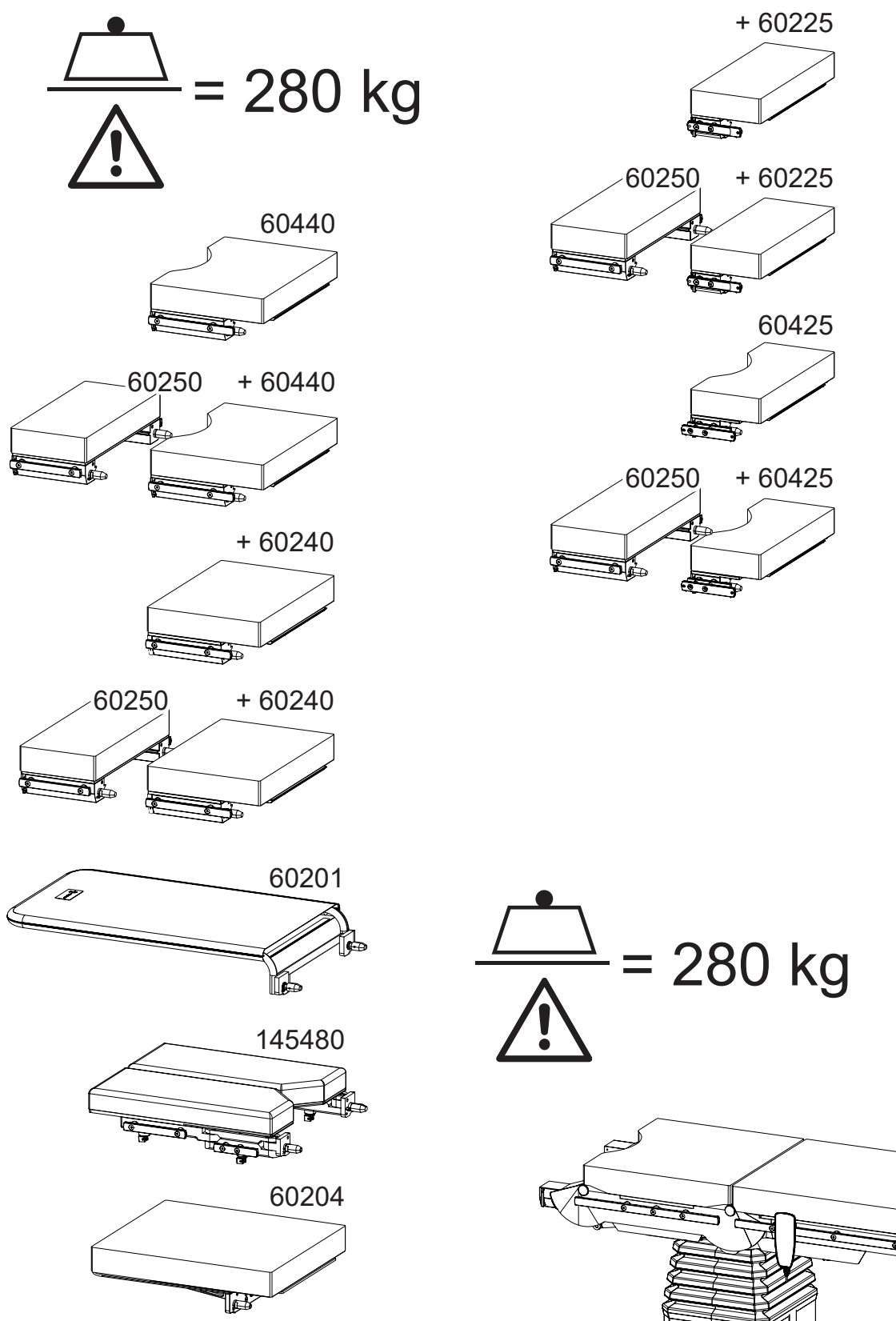


Figure 11. Forbidden motorized leg section configurations

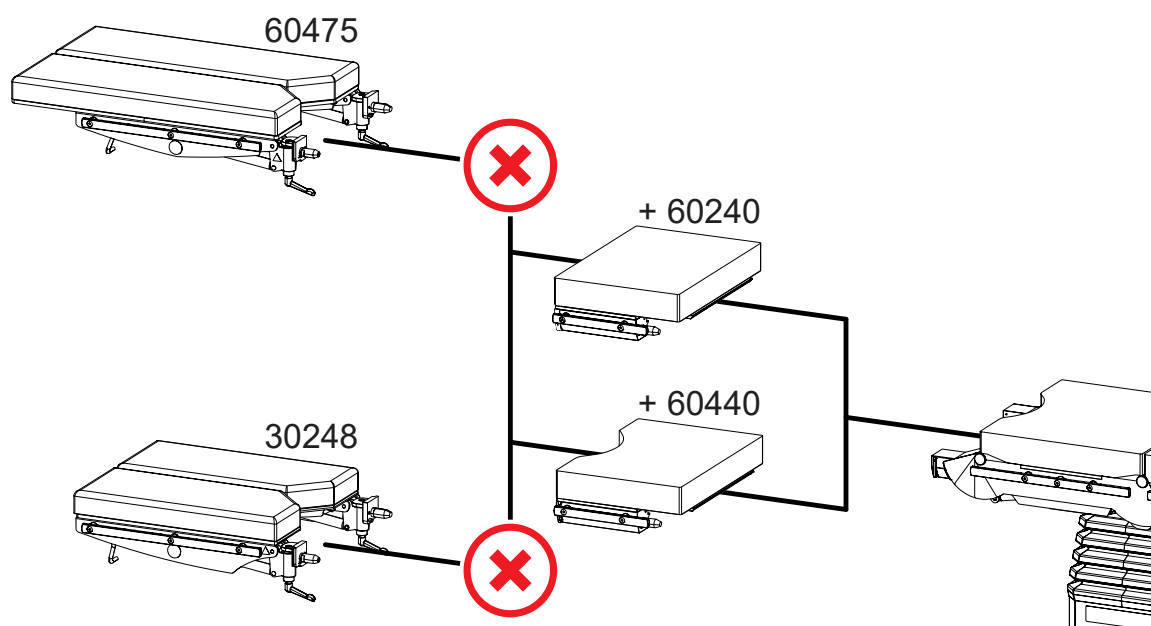


Figure 12. Non-motorized leg sections with SWL 160 kg

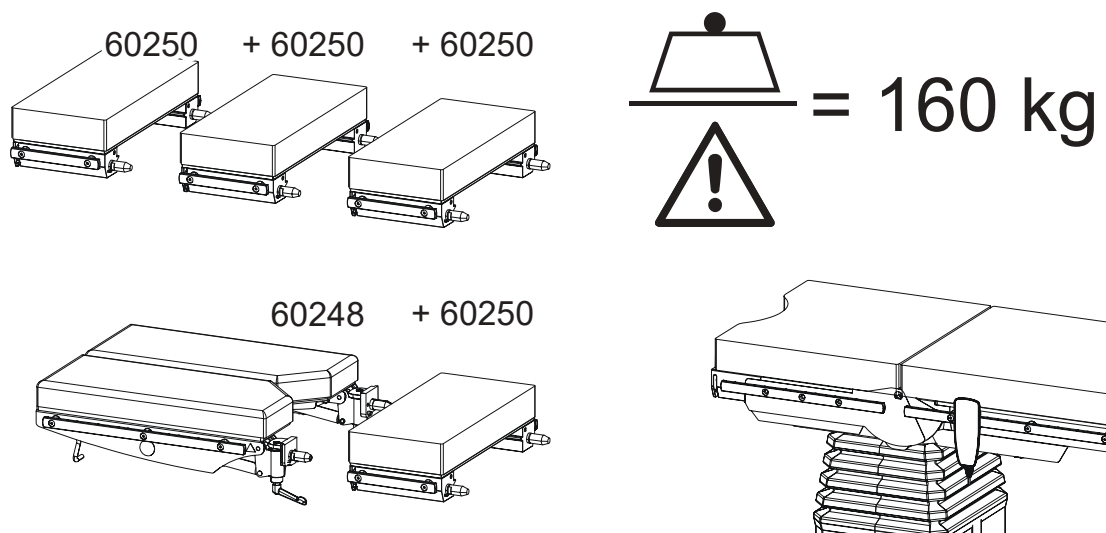
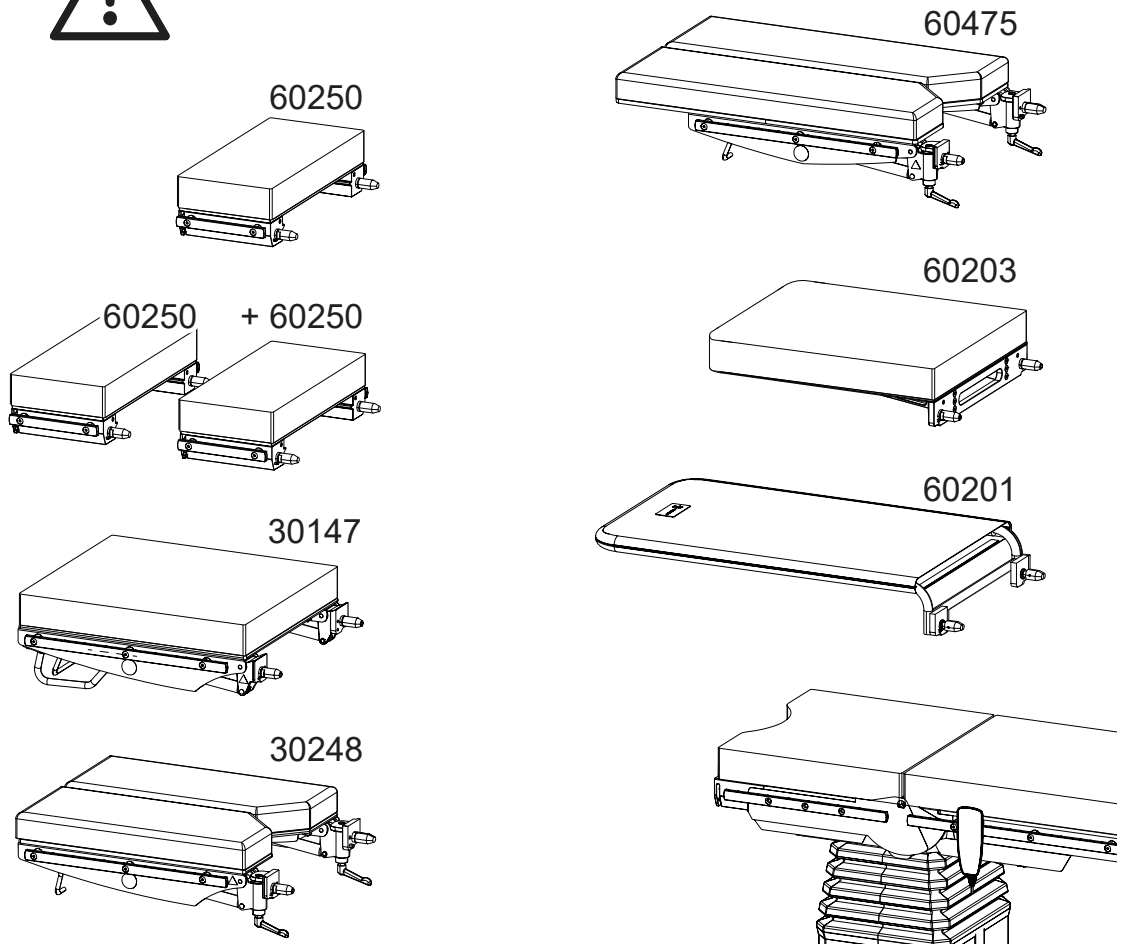


Figure 13. Non-motorized leg sections with SWL 280 kg

$$\frac{\text{Trapezoid with dot} + \text{Warning triangle}}{\text{Warning triangle}} = 280 \text{ kg}$$

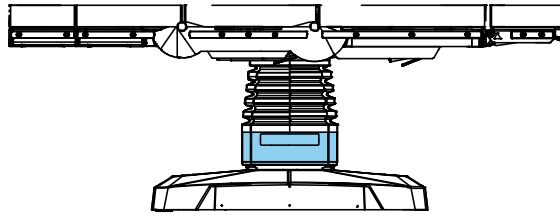


3.4.8 Transporting a patient on the table

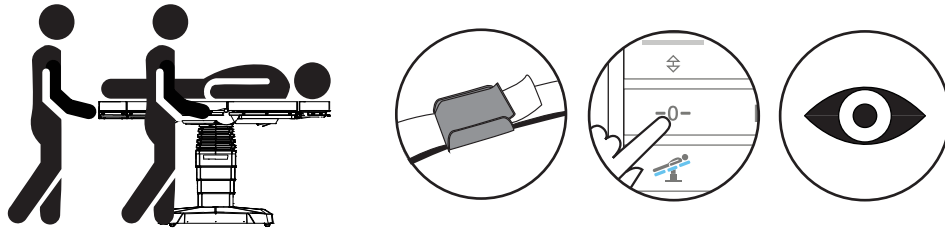
Transporting a patient requires two persons.

1. Place the patient in the longitudinal center of the table top.
2. Fix restraints as necessary. Use at least two restraints during the patient transport.
3. Adjust the table top to horizontal position (-0- position).

4. Adjust the height of the table to the transport position (690 mm).



5. Pay extra attention to the patient during transportation.



 WARNING

Remove all accessories (for example the kidney bridge crank handle), so that they will not cause any damage during transportation.

 WARNING

Do not move the table during surgery and if the mains cable is connected.

 WARNING

Transporting patient weighing up to 200 kg (440 lbs) is only allowed when table top is in horizontal position (-0- position) and only 1 column casing is visible. Transporting height limit for the table is 690 mm.

 WARNING

Low ground clearance. The maximum surpassable threshold height is 10 mm measured from the floor lock feet pads on the table base corners, and 25 mm measured from the bottom of the base plate to the ground.

3.4.9 Precautions before adjusting the operating table

 WARNING

Risk of pinching and patient falling. When adjusting the operating table, make sure fingers, hands or other parts of the body of the patient are not placed between the edges of back, leg or seat section frames and pivoting points.

 WARNING

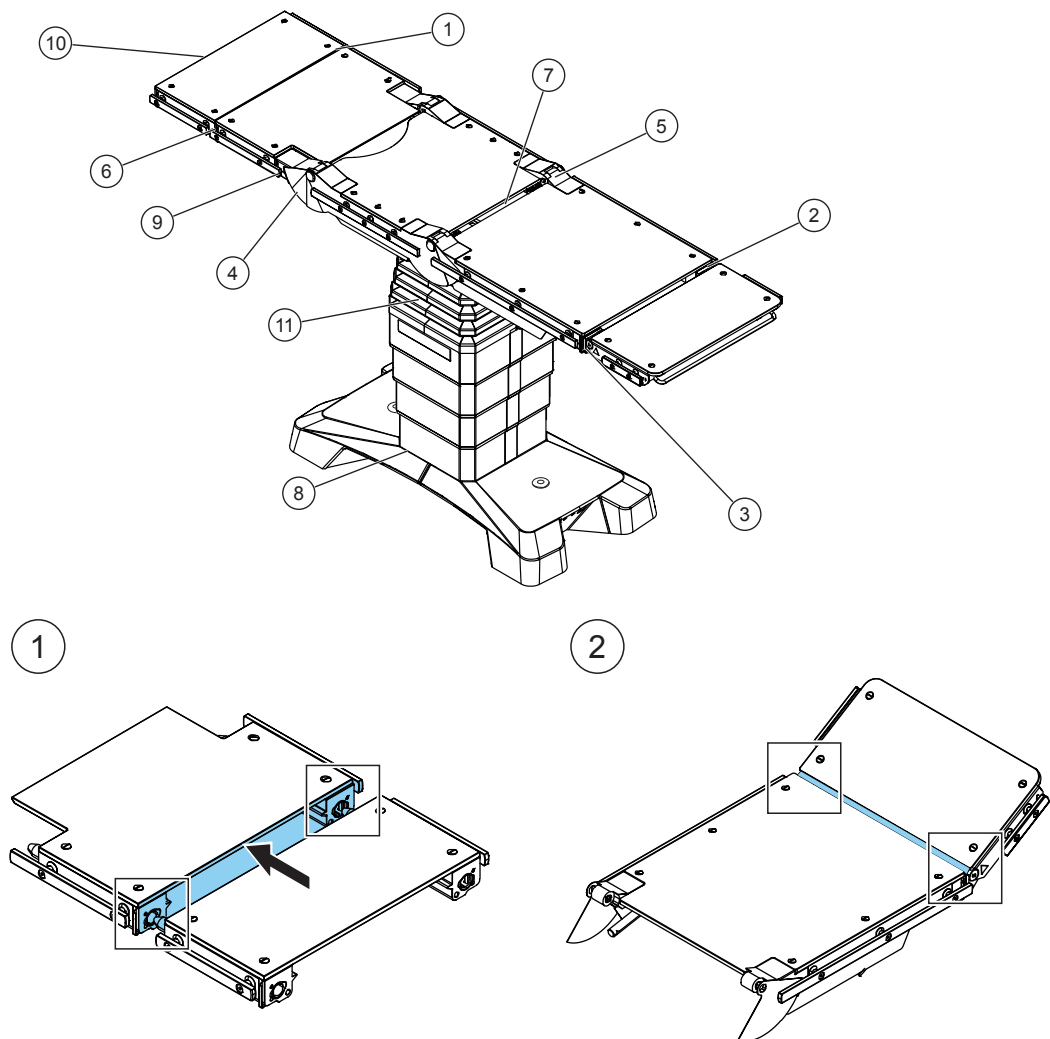
Make sure that table top will not hit external obstacles during adjustment.

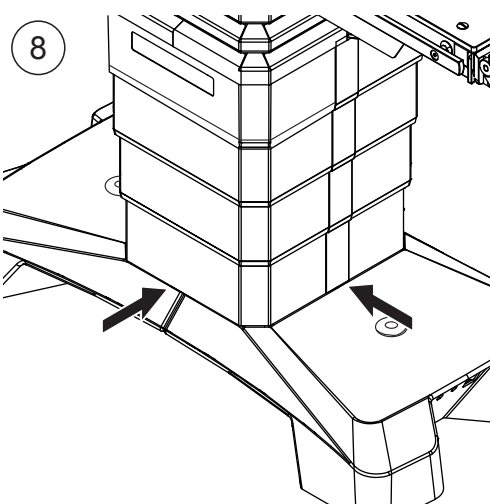
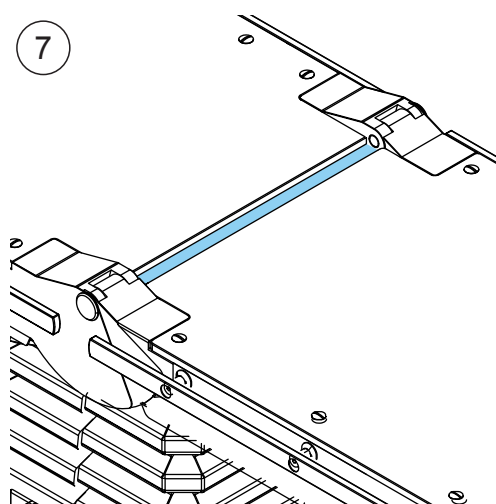
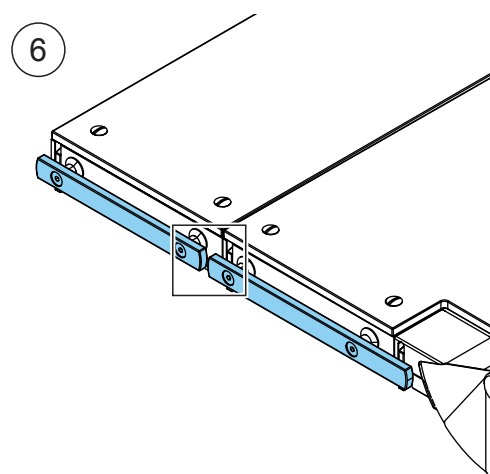
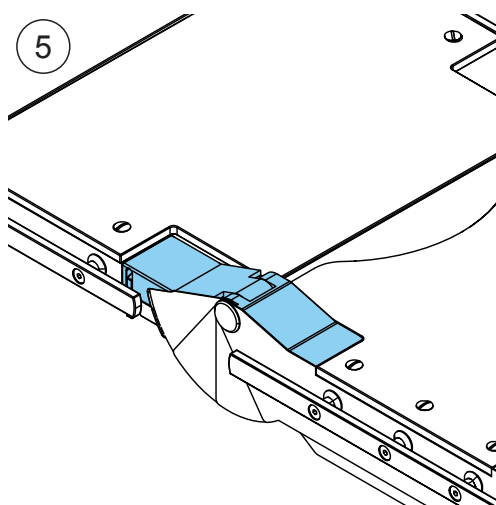
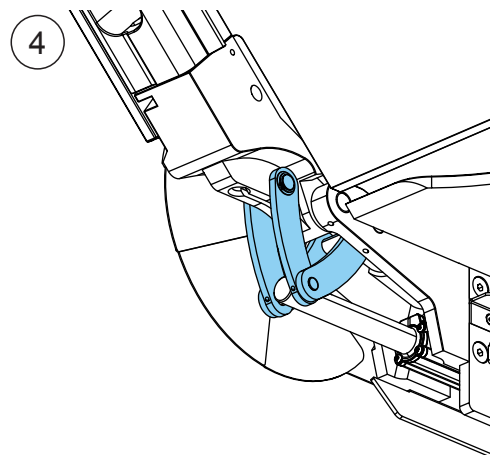
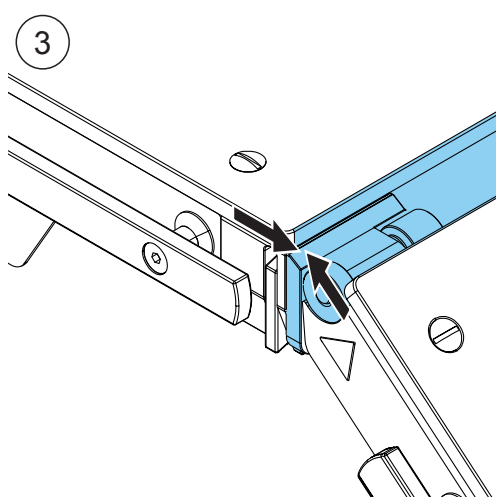
**Note:**

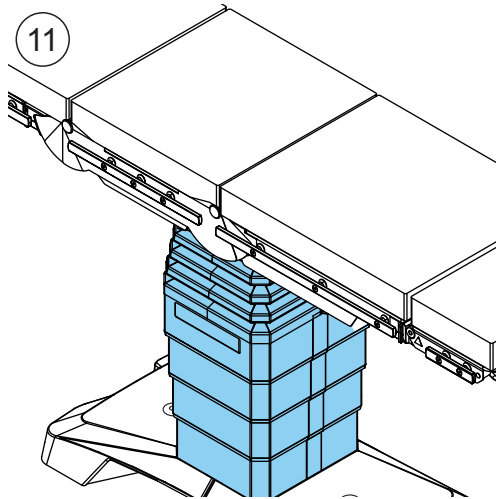
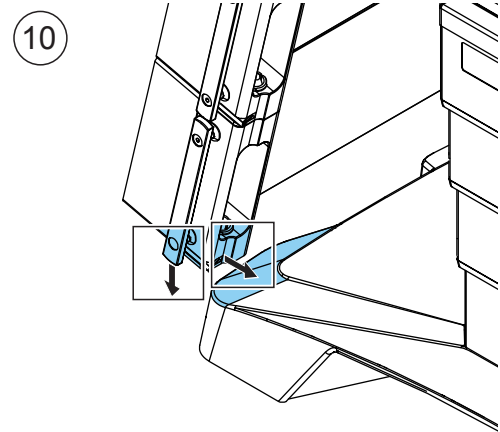
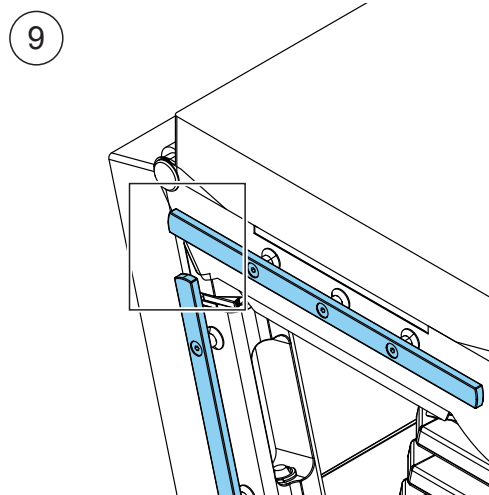
Before surgical procedures, ensure that the control unit cables are not damaged and that all adjustments are working properly.

If the table is not adjusted within four minutes, energy saving mode is activated and the table status LEDs will go out. Maintenance indicators are illuminated when the power is on.

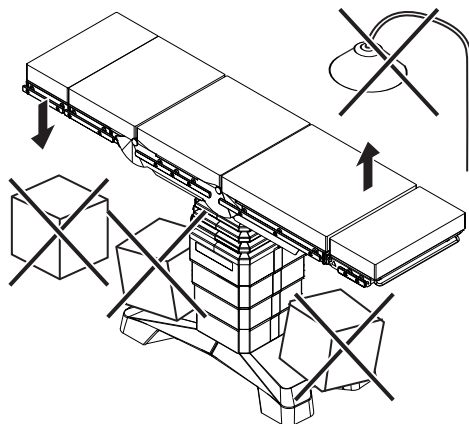
1. Make sure that fingers, hands or other parts of the body of the patient or user are not placed between section frames and pivoting points.





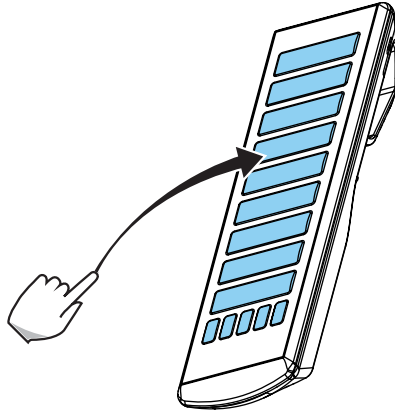


2. Set the table top high enough to avoid the leg or back section colliding with the table base.
3. Make sure that no items are placed on the table base or under the top section to avoid equipment damage during adjustments.



3.4.10 Adjusting operating table

1. Keep any of the hand control unit buttons pressed for at least 0.2 seconds to start adjusting the table. Adjust the table top longitudinal position before other adjustments.



2. Keep the button pressed until the desired position is reached.
 - The adjustment continues as long as the limiting point is reached.
 - To continue user-activated movements, the operation table adjusts other movements to prevent possible internal collisions. During automatic adjustments you will hear the "AUTO DRIVE" beeping sound.
 - The movement stops if -0- position is reached during adjustment.
 - You will hear the "SOFTWARE RESTRICTION" beep if adjustment is restricted or restriction is activated.



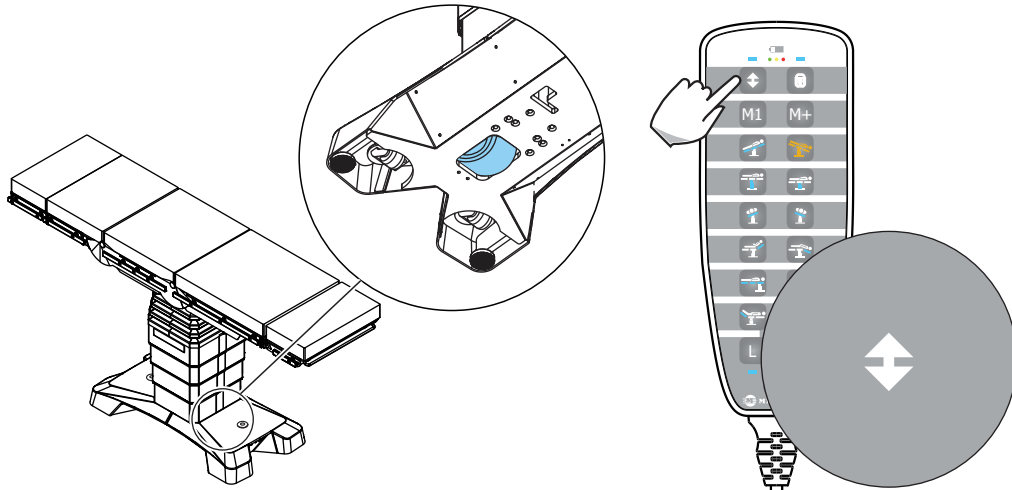
Note: The maximum unstretched length of the hand control unit cable is approximately 0.8 m.

CAUTION

Do not exceed the duty cycle ensuring sufficient motor resting time during adjustment.

3.4.10.1 5th wheel

1. Press the 5th wheel button on the hand control unit to release the floor lock.
2. Press the 5th wheel button to lower the 5th wheel to steering position.
3. Steer the table by hand when necessary (use the side of the table top for steady grip).



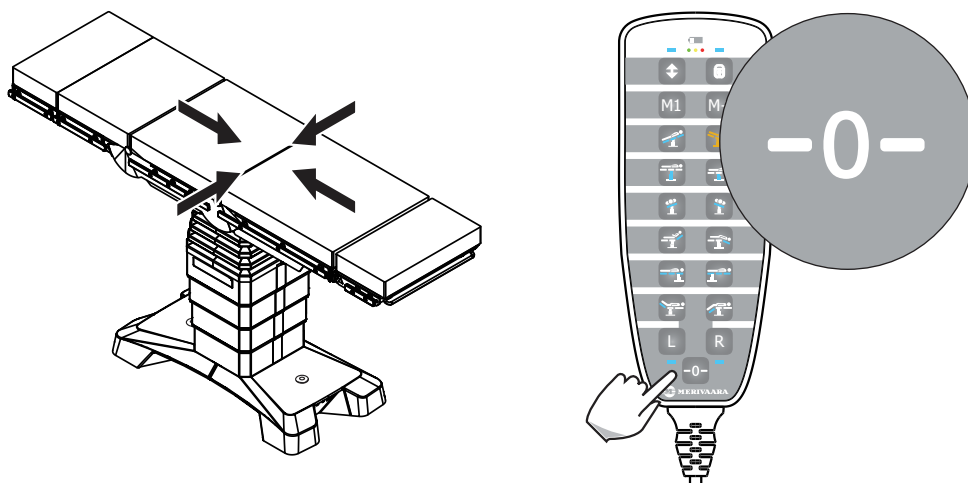
3.4.10.2 -0- position adjustment

The automatic -0- positioning function aligns table top seat section vertically and horizontally.

1. Press and hold the adjustment button until you reach the -0- position. You hear a NOTE beep when the -0- position has been reached.

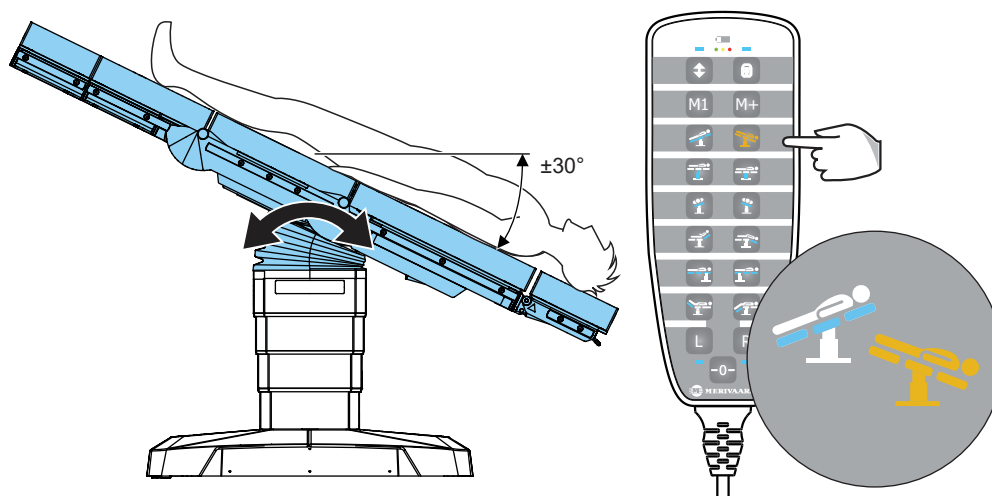


Note: There is a continuous beeping sound while you press the button if the actuators' hall sensors give misinformation. You hear the POSITION LOST buzzer. If the -0- position is not set at all, you hear the 0-POSITION MISSING buzzer. Contact the service to set the table to the -0- position correctly.



3.4.10.3 Trendelenburg and Anti-Trendelenburg adjustment

The Trendelenburg adjustment range is -30° and the Anti-Trendelenburg adjustment $+30^{\circ}$ from horizontal position.



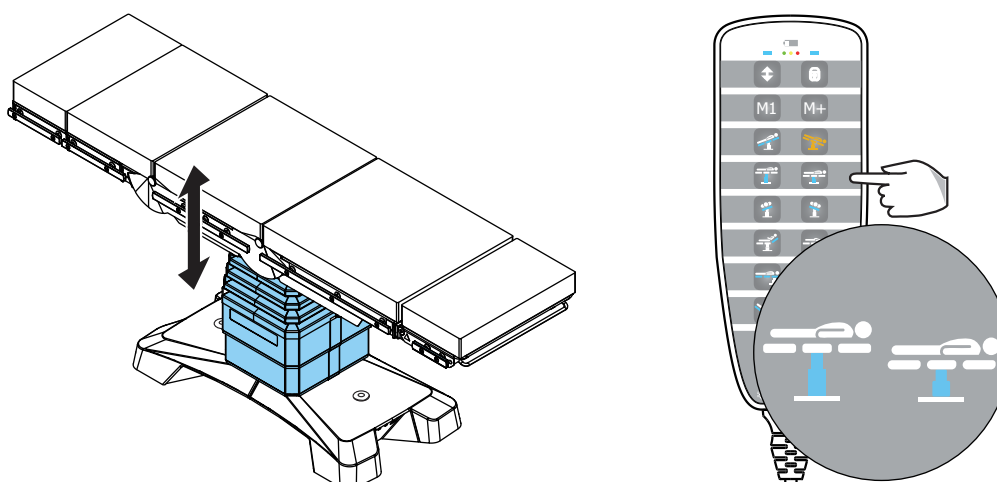
For full Trendelenburg adjustment range, the table top must be higher than the first 130 mm of the height adjustment range. Tilt must be adjusted to horizontal position. Otherwise the table top will rise automatically to the minimum height to enable the full range of adjustment when you keep the Trendelenburg adjustment button pressed. This is indicated by a continuous beeping sound.



Note: When the angle of the Trendelenburg position is more than 20° , the safe working load is 180 kg (396 lbs).

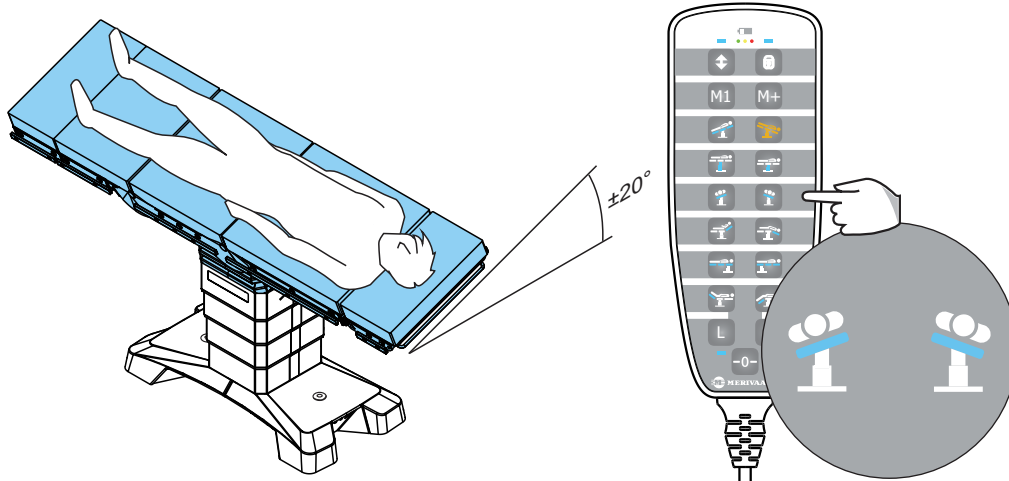
3.4.10.4 Height adjustment

Adjust the table top for optimal working height or to the transport height.



3.4.10.5 Lateral tilt

The table top can be tilted laterally $\pm 20^\circ$ to make, for example, getting on/off the table easier or to positioning the patient better. Use this function to ease patient handling with a flat sheet.



The tilt range is limited if the table top is within the first 130 mm of the height adjustment range and if the Trendelenburg adjustment angle is steep.

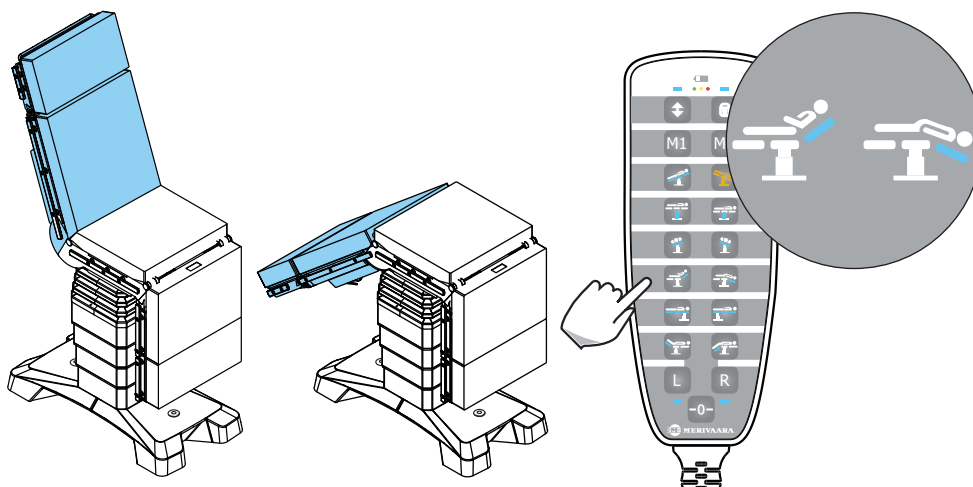
WARNING

The patient must be supported and tied to the table before adjusting the lateral tilt.

For full tilt adjustment range, the table must be at a height of over 130 mm. Otherwise the table top will rise automatically to the minimum height to enable the full range of adjustment when you keep the Tilt adjustment button pressed. This is indicated by a continuous beeping sound.

3.4.10.6 Back section adjustment

The back section adjustment range is from -40° to $+70^\circ$.



The longitudinal shift (slide) position can limit back adjustments when you try to adjust the back section below the horizontal position. The table automatically adjusts the slide to allow back section to go below the horizontal position. During automatic adjustments you will hear the "AUTO DRIVE" beep.

 WARNING

To prevent the back section from colliding with the table base or any objects below, do not use the height adjustment downwards when the back section is in a low position.

3.4.10.7 Leg section adjustment

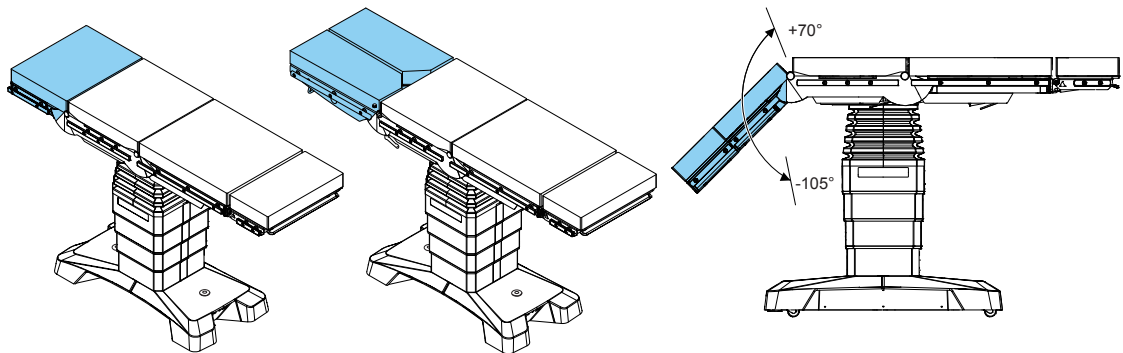
Leg section adjustment differs depending on whether the leg section is motorised or not (see [3.4.7.1 Motorised and non-motorised leg sections, page 44](#)). There are two options:

- Seat section with motorized leg section joints. Adjusted with the hand control unit.
- Seat section with non-motorized leg section joints. Adjusted with the adjusting bar, gas spring assisted.

Motorised leg sections are vertically adjustable from -105° to $+70^{\circ}$.

Non-motorised leg sections are vertically adjustable from -90° to $+20^{\circ}$.

With non-motorised leg sections, the horizontal position is adjusted (0° to $+90^{\circ}$) using the tensioning screw on the section joint.



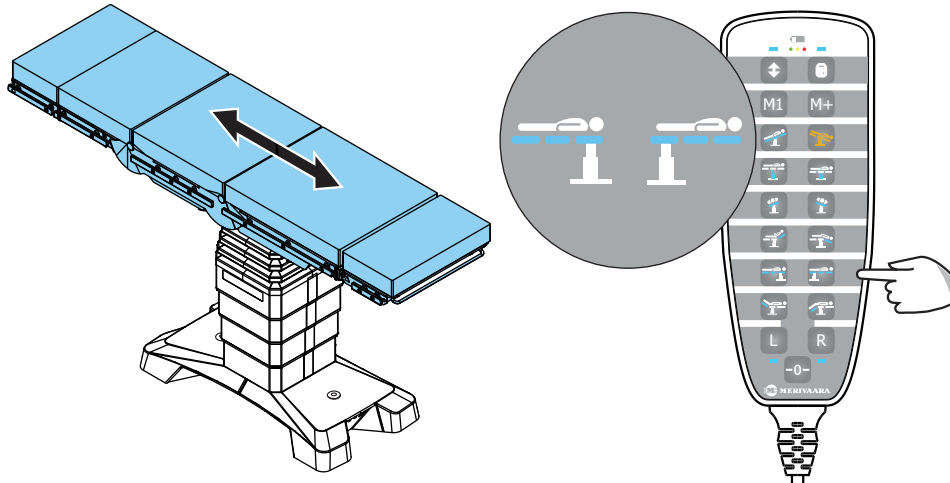
Divided leg sections and undivided one-piece leg sections are adjusted in the same way.

3.4.10.8 Longitudinal shift (slide)

Practico table top can be adjusted longitudinally towards the head or leg sections. The whole trajectory is 390 mm. Place the patient in the longitudinal center of the table and adjust the table top longitudinally before other adjustments.

- The longitudinal adjustment affects the adjustment range of the motorized leg section and the back section. You will hear the "AUTO DRIVE" beep when automatic adjustments are made.
- Adjust the table top longitudinal shift towards the leg side if the leg sections are going to be adjusted -50° – -105° . Reference for the table top setup can be defined from the table -0- position.
- The longitudinal adjustment towards the head section is limited if the leg section is adjusted over -50° .

- The longitudinal adjustment towards the leg section is limited if the back section is adjusted below 0 "dec".
- When the leg section is driven down, the table top slides automatically. This is indicated by a continuous beeping AUTO DRIVE sound.
- When you slide towards the head section, the leg sections will rise automatically. This is indicated by a continuous beeping AUTO DRIVE sound.

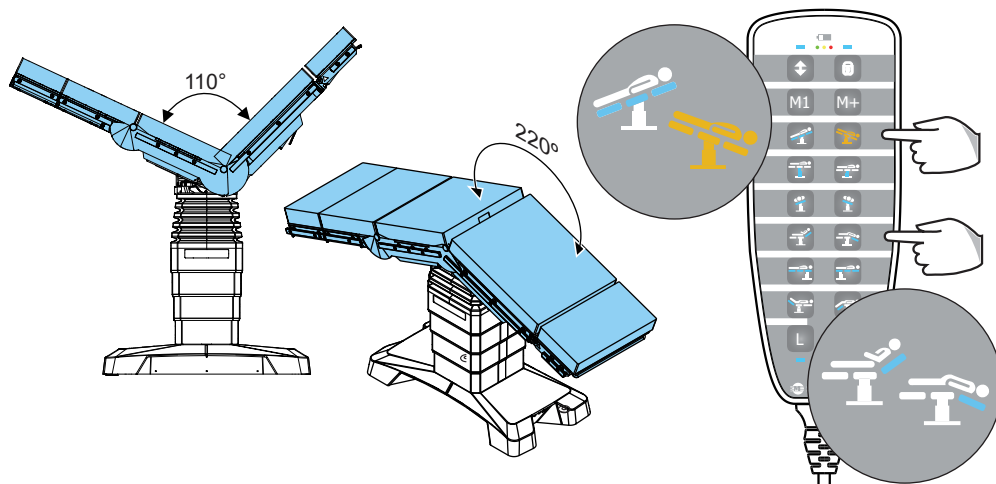


⚠ WARNING

Risk of losing table stability if using the longitudinal shift when the patient is not positioned in the longitudinal center.

3.4.10.9 Flex and reflex positions

Adjust the flex and reflex positions using the back section and Trendelenburg buttons.



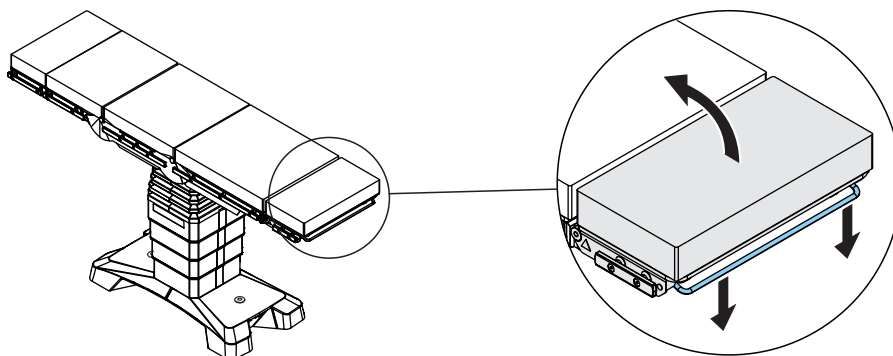
The maximum adjustment range:

- Flex: 220°
- Reflex: 110°

3.4.10.10 Head section adjustment

Standard head section is gas spring assisted. To adjust the angle of the head section (-45° to +45°):

1. Press or push the handle.
2. Lift or raise the head section to the desired the angle.
3. Release the handle to lock the head section to the adjusted position.



E.g. the double-articulated headrest (optional) has additional adjustments.

Merivaara optional accessories include different types of head rests selectable according to the surgical needs. See www.merivaara.com for more information.

WARNING

Use extreme caution while adjusting the head section or the head rest to avoid patient or user injury. Never press the release bar without controlling the head rest movement or when it is not connected to the table. Always keep fingers away from articulating joint pinch points.

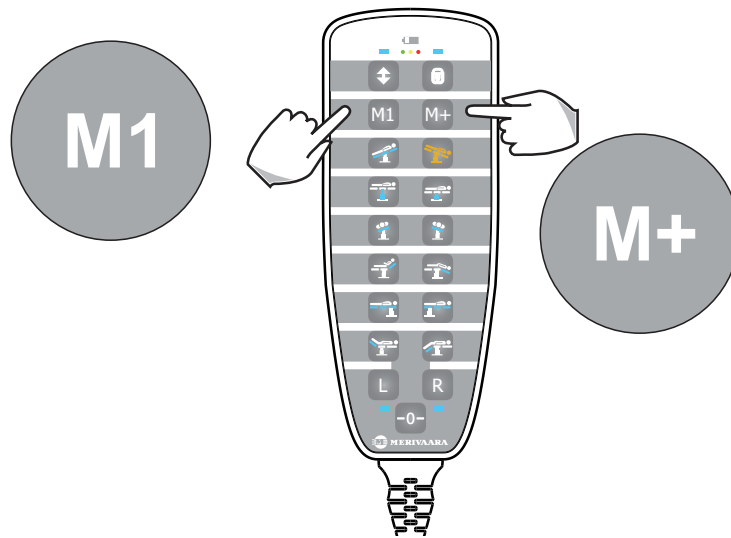
CAUTION

Fully activate the gas spring releasing lever before moving the relevant adjustment. Inadequate releasing combined with movement can damage the gas spring.

3.4.11 Position preset

To save the current position:

1. Press the **M+** button.
2. Press the memory position button while pressing M+ to save the position.

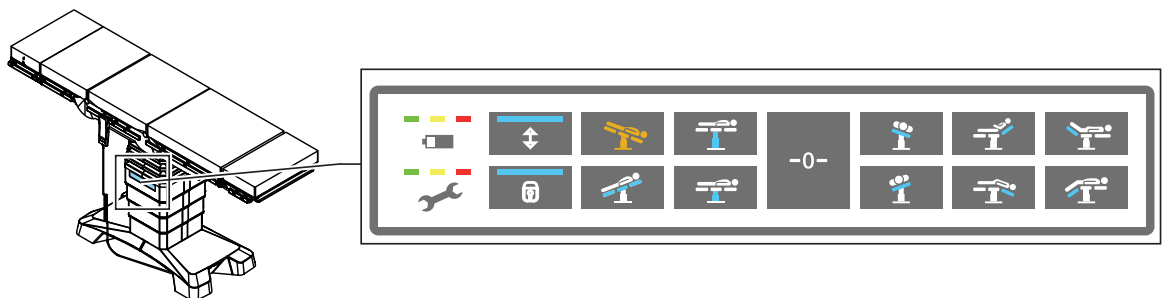


To use the preset position, keep the **M1** memory position button pressed until the table reaches the saved position.

When the saved position is reached, you will hear the "NOTE" beep.

3.4.12 Back-up control panel

The back-up control panel has the same adjustments as the hand control unit except for longitudinal shift (look at the corresponding adjustments described in [3.4.10 Adjusting operating table, page 55](#)). The membrane keyboard gives maintenance indicators and information on charging and battery status and operation table's maintenance status. Use this control panel, if the hand control unit or other control devices are not responding.



WARNING

Keep fingers, hands and other body parts clear of the back/leg/seat section edges and pivoting points when you adjust the table. Pay attention to the patient and personnel during adjustment.

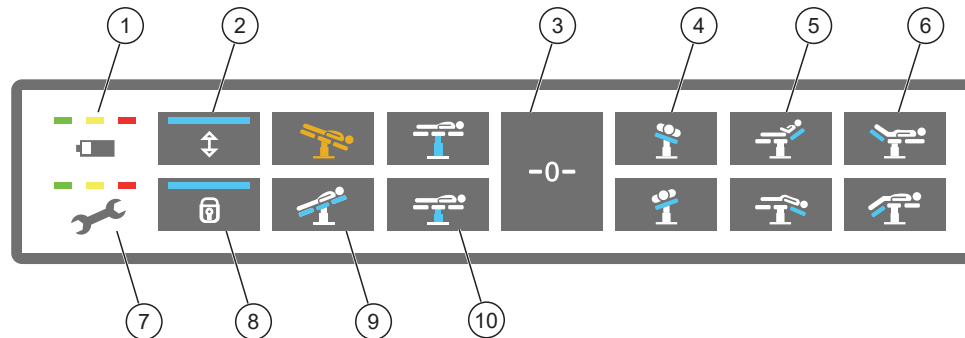
CAUTION

Do not strain the shield plates of back or leg section joints by pushing or pulling. Check that there are no obstacles between the shields during adjustment.

3.4.12.1 Function buttons

Keep a function button pressed until the desired position is reached. You will hear a continuous beeping sound from the backup panel during adjustment.

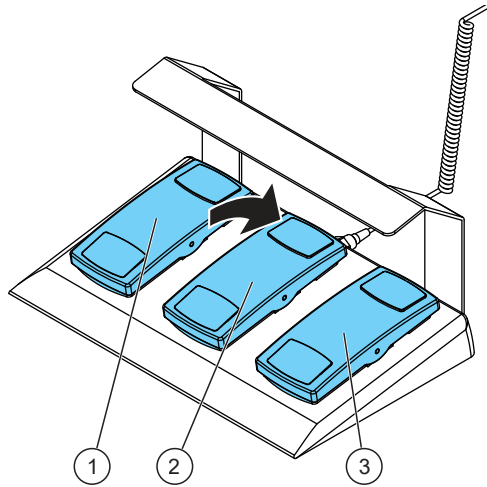
Figure 14. Backup control panel function buttons



- 1 Battery and charging indicator LEDs
- 2 5th wheel
- 3 -0- position
- 4 Lateral tilt
- 5 Back section
- 6 Leg section
- 7 (Maintenance indicator LEDs)
- 8 (Floor lock)
- 9 Trendelenburg
- 10 Height

3.4.13 Foot control unit

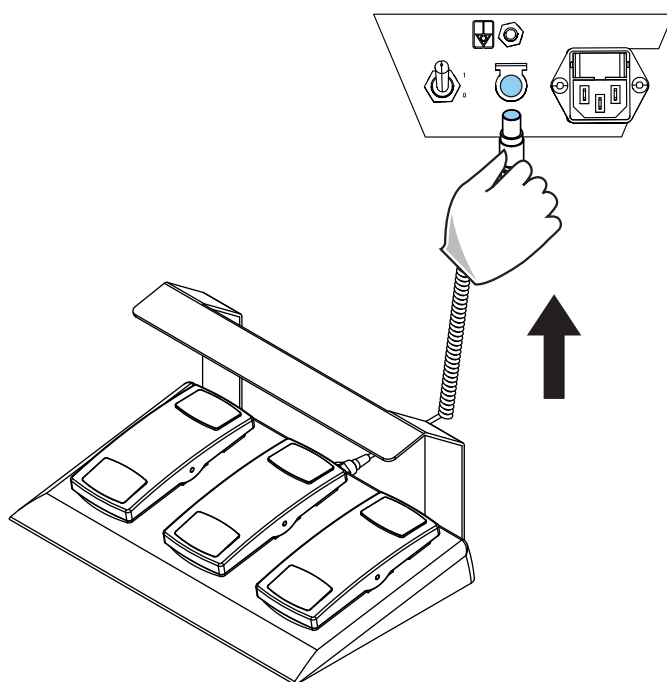
3.4.13.1 Foot control unit functions



- 1 Trendelenburg
- 2 Height
- 3 Lateral tilt

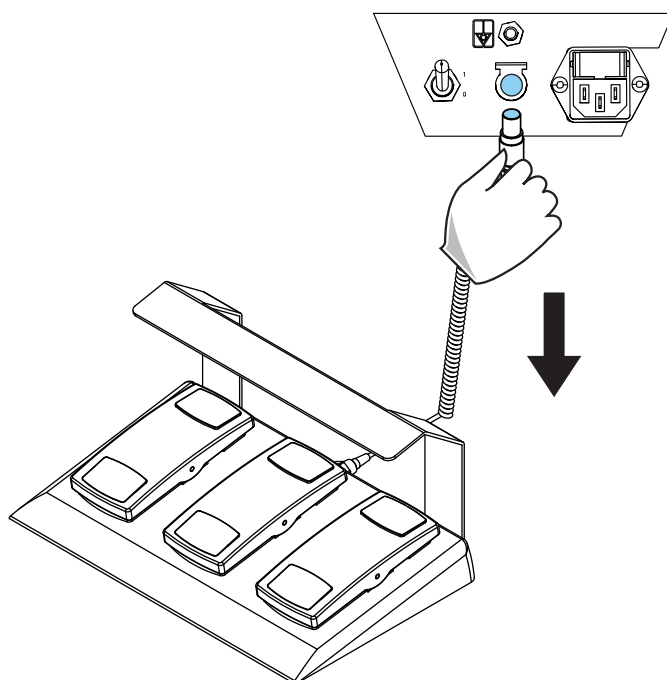
3.4.13.2 Connect foot control unit

- 1. Align the red dots on the plug and on the socket.
- 2. Put the plug all the way into the socket on the table base.



3.4.13.3 Disconnect foot control unit

1. Support the socket with your hand.
2. Disconnect the plug by pulling the plug, not the cable.



3.4.13.4 Using the foot control unit

Before using the foot control unit:

- Test the foot control unit functions.
- Check that the plug is properly inserted.
- Check that the cables are not damaged
- Make sure that there is enough room for the table top to move freely.

To use the foot control unit:

- Keep pressing the pedal until you reach the desired position. The movement stops when you release the pedal.

WARNING

Keep the patient's fingers, hands and other body parts clear of the back/leg/seat section edges and pivoting points when adjusting the table.



Note: The foot control unit cable maximum unstretched length is approximately 1.1 m.

4 Practico operating table accessories

4.1 Operator table accessory warnings

Use original Merivaara accessories for ideal performance. See Merivaara accessory brochure or www.merivaara.com for more information. Ensure compatibility.

WARNING

Use of the operating table adjacent to or stacked with other equipment can cause improper operation. If the operating table is used in that way, compatibility with the other equipment must be observed to verify proper operation.

WARNING

Do not use worn or damaged accessories.

WARNING

Make sure that all accessories are properly mounted to the table and locked in place. If the accessory cannot be installed to the standard accessory rails, the Practico extension rail can be used.

WARNING

When using accessories, make sure there is access to table controls and to all adjustments if the position of the patient needs to be reset or undone.

WARNING

Risk of losing table stability and tipping. Make sure that the attached accessories do not jeopardize the table stability or patient safety.

4.2 Recommended accessories

WARNING

- The maximum load on an accessory rail on one side of the table is 50 Nm.

WARNING

- Follow the instructions in each accessory user manual.

Table 3. Arm rests

100000125	Arm rest 125, with straps 110
100019180	Arm rest 19180, with straps 110
100019185	Arm Rest 19185 w. radial clamp, ball joint
100011801	Easy Arm board 11801, with straps
100011802	Lateral Arm board 11802
100000151	Arm rest 151, pair

Table 4. Supports and straps

100000107	Wrist straps 107, pair
100000110	Straps 110 for arm rests 125 and 19180, 19185
100011081	Patient restraining strap 11081
100010886	Leg / body strap, wide, Velcro-type
100000120	Side support 120
100011651	Lateral brace 11651 with round pad and clamp
100011652	Lateral brace 11652 with rectangular pad and clamp
100019129	Shoulder supports 19129, pair
100011295	Shoulder braces 11295, pair
100020127	Support Belt for Beach Chair
100010368	Supporting Roll, vertical
100010369	Supporting Roll, horizontal
100060485	Arm / Leg Shield, including pad

Table 5. Head rests

100000141	Wide head rest 141
100000142	Narrow head rest 142
100000144	Neurosurgical head section 144
100018101	Head section 18101
100018143	Special head rest 18143, for ENT-surgery
100018150	Special head rest 18150, for ENT / ophtalmology
100018151	Special head rest 18151 for ophtalmology
100030126	Special Head Rest for Beach Chair
100030128	Helmet type Head Rest for Beach Chair
100333010	DORO Set 1
100333020	DORO Set 2
100333030	DORO Set 3
100301100	DORO® Side Rail Adaptor
100060146	Adapter 60146 for special head rests

Table 6. Foot rests

100000118	Leg rests with straps 118, pair
100020118	Leg rests with straps, Goebel-type, pair
100011181	Knee crutches 11181, with extra soft pad and straps
100012551	Leg holders 12551, pair
100012552	Leg support, "The Prepper" 12552
100012581	Stirrup system 12581, with extra soft pad
100012583	Gas spring assisted stirrups 12583, pair
100010353	Arthroscopic Leg holder 10353
100012530	Arthroscopic Stress Post 12530
100012585	Total knee stabilizer 12585, including clamp
100012586	Replacement pad 12586 for 12585
100012012	Thigh Holder (single)
100060201	Light foot rest 60201, Promerix
100060203	Light leg section for non-motorized legs

Table 6. Foot rests (continued)

100060204	Light leg section for motorized legs
100060482	Powered Leg Holders for Promerix

Table 7. Anesthesia screens and infusion rod

100000111	Anaesthesia screen 111
100000116	Extension arm 116, for 111
100011001	Anaesthesia screen 11001, flexible
100000749	Infusion rod 749, for EUR-rail, 2 hooks
100000749	Infusion rod 749, for EUR-rail, 4 hooks

Table 8. Arm and hand tables

100000111	Hand operating table 10390
100010392	Traction device 10392
100010393	Hand fixation device 10393
100011911	Arm and hand table 11911
100011912	Carpa table 11912

Table 9. Bowls

100201501	Bowl 201501, 6 L, without drainage
100201502	Bowl 201502, 6 L, with drainage
100201571	Bowl 201571 6 L + attachment, fixed to the side without drainage
100201572	Bowl 201572 6 L + attachment, fixed to the side with drainage
100061580	Holder for 6 l Bowl, fixed under the base, Promerix
100061581	Bowl 6 l without Drainage + Holder, fixed under the base, Promerix
100061582	Bowl 6 l with Drainage + Holder, fixed under the base, Promerix
100018159	Screen 18159 for bowls, 6 L

Table 10. Other accessories

100000126	Cassette tray 126
100018168	Push handles to foot end

Table 10. Other accessories (continued)

100018173	Side rails, Chrome plated, auto lock
100018174	Side rails, epoxy coated, auto lock
100020593	Push Bar, head end
100060850	Foot Control device (height, trend, tilt)
100020114	Foot Rest / Table extension, without the mattress
100020114	Foot Rest / Table extension, with IS-mattress with pin screws
100020114	Foot Rest / Table extension, with VEF-welded mattress with Velcro
100010659	Table width extender 10659, 500 mm
100060484	Divided leg plates, 4-sectional
100060525	Beach Chair Back Rest for shoulder arthroscopy
100019280	Back and kidney elevator 19280 with mattress
100060506	Pediatric section 60506, children's surgery

Table 11. Clamps

100010200	Accessory Clamp 10200, Universal D16
100010300	Radial Accessory Clamp 10300, Universal D16-D20
100010308	Radial Clamp
100011042	Easy lock Socket 11042, max. D 18 mm
100011043	Rail clamp 11043
100019128	Accessory rail extension 19128
100010355	Accessory Extension Rail, L=400 mm
100010356	Accessory Extension Rail, angled
100010359	Angular accessory rail, L=250 mm

Table 12. Pads and mattresses

100019400	Transfer Mattress
100019497	D-Pillow, Visco-elastic, includes fixing straps
100060750	Mattress set for prone position
100060751	Prone Head pillow
100040201	Donut head pad 40201

Table 12. Pads and mattresses (continued)

100040402	Gel pad, small 40402
100040204	Horseshoe head pad 40204
100040308	Large arm board pad 40308, size: 61 x 16.5 x 1 cm
100040617	Patient positioner, flat bottom 40617
100040100	O.R. Overlay, medium, size: 117 x 50 x 1.3 cm
100040105	O.R. Overlay, small, size: 50 x 50 x 1.3 cm
100040202	Donut head pad 40202, Pediatric
100040205	Horseshoe head pad 40205, Pediatric
100040213	Contoured Head Pad, size: 18 x 18 x 8 cm
100040300	Arm board Pad, short, size: 38 x 10 x 0.6 cm
100040301	Arm board Pad, long, size: 61 x 11.5 x 1 cm
100040601	Auxiliary Roll Cover, with hook & loop, size: 43 x 30.5 x 1.3 cm
100066002	Closed head ring / 140 x 60 x 35 mm/
100066003	Closed head ring / 200 x 75 x 4 5 mm/
100066012	Open head ring / 140 x 60 x 35 mm/
100066013	Open head ring / 200 x 75 x 45 mm/
100066021	Table pad / 500 x 500 x 10 mm
100066022	Table pad / 1170 x 500 x 10 mm
100066096	Patient positioner / 380 x 125 x 63 mm
100066042	Chest roll with flat bottom surface / 405 x 150 x 100 mm
100066072	Arm board pad /600 x 125 x 20 mm
100066031	Heel support pads, pair / 200 x 110 x 70 mm
100066801	Crutch stirrup pads-pair / 315 x 220 x 10 mm
100066081	Contoured headrest / 190 x 190 x 60 mm
100066110	Head pad / 270 x 230 x 70 mm
100066111	Prone headrest / 280 x 230 x 145 mm

Table 13. Special devices

100030154	Proctology attachment
100019220	Accessory stand 19220 (including 4 wire baskets)
100060510	Arm rest, Carbon fibre

Table 13. Special devices (continued)

100060511	Pad for carbon fibre arm rest, VEF 80 mm
100019300	Orthopedic Extension Device

Table 14. Optional accessories for 19300

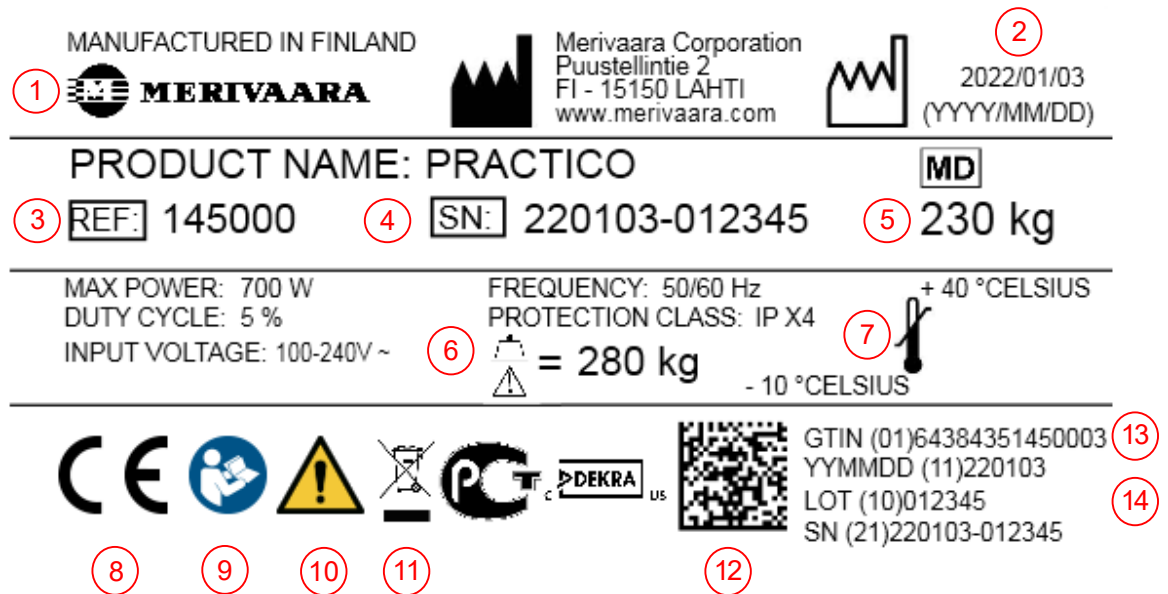
100000138	90° knee support 138
100019112	Femoral counter traction post 19112
100019114	Stirrup Clamp with rotation 19114
100019118	Knee Crutch 19118
100019120	Leg rest with padding 19120
100019124	Knee support 19124
100019126	Calf support 19126
100019128	Accessory rail extension 19128
100019131	Traction boots, children's 19131
100019134	Clamp 19134 for the extension bar (Ø 19 mm hole)
100019132	Supporting post for plaster cast 19132
100019135	Rail clamp 19135 for wide arm
100019285	Cart for Orthopedic device and Knee Chest device
100019313	Short Support Arm for 19300
100019348	Leg plates for Orthopedic device 19300

5 Technical data

5.1 Identification plate

The identification plates are on the table base and under the seat section. Check the product information printed on the identification plate before use.

Pictures on this page are for illustrative purposes only.



- 1 Manufacturer
- 2 Date of manufacture
- 3 Product catalogue number
- 4 SN (Serial Number)
- 5 Weight of the operating table
- 6 SWL (Safe Working Load)
- 7 Transport temperature
- 8 CE mark
- 9 Follow instructions for use
- 10 Caution
- 11 Recycling
- 12 QR tag

13 GTIN (Global Trade Item Number)

14 LOT (Lot number)



Note: The safe working load (SWL) is 280 kg (617 lbs). When the angle of the Trendelenburg position is more than 20°, the safe working load is 180 kg (396 lbs). The safe working load also depends on the leg section configuration and the operation table type. Refer to [3.4.7.4 Leg section configurations and SWL, page 45](#).

5.2 Labeling and symbols

	Equipotential bonding
	B-type applied part (operating table top)
	Emergency release nuts for brakes are found under the stickers at both ends of the base.
	Follow instructions for use
 = 280 kg	Maximum safe working load (includes patient, mattress and accessories).
	Marking in accordance with European Council Directive 93/42 EEC (all Practico models)

5.2.1 Symbols and label markings

Table 15. Mains power connection and fuses

Input voltage range	100 to 240 V
Alternating Current, AC	~

Table 15. Mains power connection and fuses (continued)

AC frequency range	50/60 Hz
Mains fuses	F6.3AL / 250 VAC Ø5 X 20 (2 pcs)



Note: The Medical Electrical System requirements are specified in standard IEC/ EN 60601-1, clause 16.

Table 16. Packaging labels

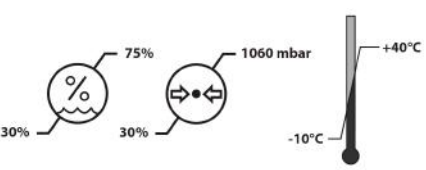
	This way up
	Fragile
	Keep dry
	Limitations regarding humidity, atmospheric pressure and temperature

Table 17. Warning labels

	Warning label for vertical adjustments Do not adjust the height of the operating table downwards or to the anti-Trendelenburg position if the table leg or back section is adjusted downwards!
	Warning label for pinch point hazard Keep hands and fingers clear during adjustment.

Table 17. Warning labels (continued)

	Warning label for leg sections Do not sit or place extra weight on the gas spring assisted leg section(s). If the locking load limit of the gas springs is reached, the leg section will not stay in place horizontally.
	Brake emergency release label If, for any reason, the normal unlocking and release of brakes does not work, you can use the emergency release mechanism. Break the brake emergency release labels at both ends of the table base to release the brakes.

5.3 Specifications

5.3.1 Environmental specifications

Ambient temperature	+10 to +40 °C
Ambient pressure	700 to 1060 mbar
Relative humidity	30 % to 75 %
Transport temperature	- 10 to +40 °C
Storage temperature	+10 to +40 °C

5.3.2 Electrical specifications

Input voltage	100-240 VAC~
Frequency	50/60 Hz
Secondary voltage	33 VDC
Lithium batteries	24 VDC 2.25 Ah x 2
Max. power consumption	700 W for 80 sec
Main fuses	F6.3AL / 250 VAC Ø5 X 20 (2 pcs)
Normal recharging time	Approximately 10 h

Operation time with full battery	Approximately 180 min
Max. uninterrupted operating	- In battery mode 1 min continuous / 19 min resting time (Duty cycle 5 %) - When connected to mains 2 min continuous / 18 min resting time (Duty cycle 10%)

5.3.3 Classification data

Practico operating table is classified according to EN 60601-1 as follows:

Electric shock protection	Class I equipment, internally powered
Degree of electric protection	B-type
Protection against liquids	IP X4 / Splash proof equipment
Cleaning and disinfecting	According to instructions in this manual
Operating rate	Intermittent operation / duty cycle 5%
Protection against flammable anaesthetic gases	Do not use with combustible gases
Safe working load (SWL)	280 kg incl. patient, mattresses and accessories
Expected lifetime	10 years

5.3.4 Surface materials

Surface materials used in the Practico operating table with possibility to skin contact.

Surface	Material
Base frame construction	Epoxy coated steel
Seat section frames	Anodized aluminium
Accessory rails, column casings, frame constructions	Stainless steel
Pivots	Stainless steel
Table top plates	High pressure laminate
Mattresses	PUR
Table top section sides	Stainless steel and Al
Hand control unit cover	ABS
Hand control unit cable	PVC

Surface	Material
Bellows	EPDM rubber
Base and castor covers	ABS+PMMA or stainless steel
Actuator covers	ABS and Al
Back-up-control panel	Polyester
Main switch, main switch fixings	Stainless steel

5.3.5 Adjustment ranges

	FIXED SEAT	SLIDING SEAT
Height	550 to 1040 mm	540 to 1030 mm
Longitudinal shift	–	390 mm
Lateral tilt	± 20°	± 20°
Back section (standard)	-40° to +70°	-40° to +70°
Leg section	-105° to +70°	-105° to +70°
Trendelenburg and anti-Trendelenburg	± 30°	± 30°
Headrest (Std.)	± 45°	± 45°
“Beach chair” back section (Optional)	-15° to +70°	-15° to +70°
Kidney-bridge back section (Optional)	-15° to +70°	-15° to +70°
Eye-ENT back section (Optional)	-15° to +70°	-15° to +70°

5.3.5.1 -0- position

Table top section adjustments and adjustment tolerances in the -0- position:

ADJUSTMENT	-0- POSITION	TOLERANCE*
Lateral Tilt	0°	+/- 2° to 4°
Back section	+1°	+1.5/- 0.5°
Trendelenburg	0°	+/- 2° to 4°
Leg section	+1°	+1.5/- 0.5°

*Tolerance depends on the load, higher load causes greater deviation.



Note: Reset the control unit and do 0-position calibration according to the instruction T405571.

5.3.5.2 Approvals

- Quality certificates: ISO 9001, ISO 13485, ISO 14001
- Complies with IEC/EN 60601-1:2005 + A1:2012 with US and CAN deviations, IEC/ EN 60601-2-46:2016, IEC/EN 60601-1-2 (EMC)
- Practico has class I classification according to European Council Directive 93/42/ EEC Class I

(Annex IX).

5.3.6 Weights and dimensions

Figure 15. Table dimensions with motorized leg section

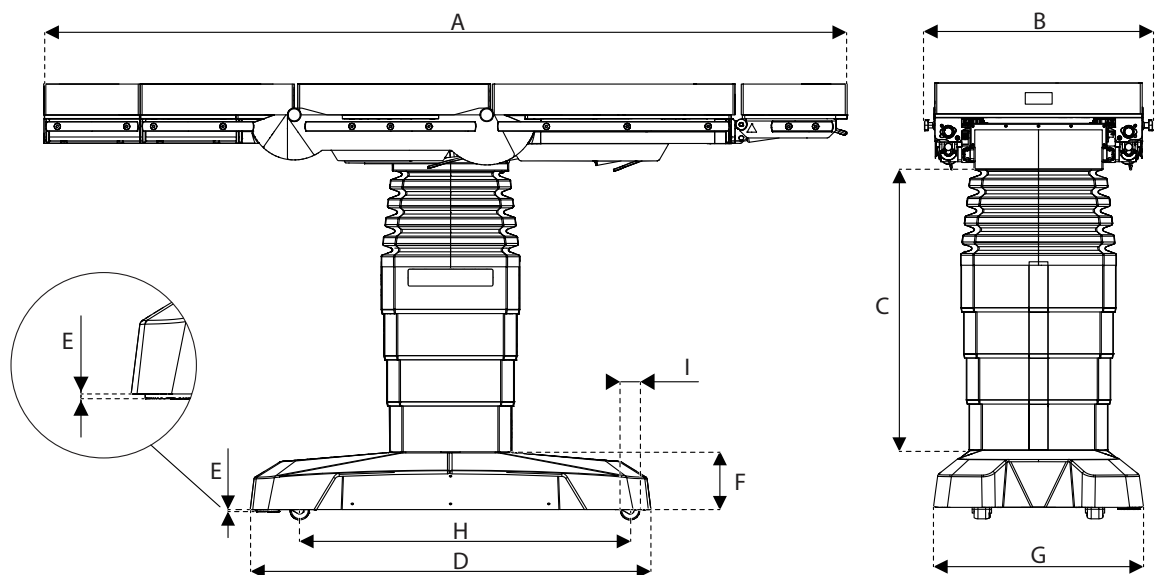


Table 18. Weights and dimensions

	Fixed seat section	Sliding seat section
Table top sections	4 or 5	4 or 5
Weight of the table	~220 kg	~225 kg
Length (A) with 5 sections	2086 mm	2086 mm
Width (B) with side rails	594 mm	594 mm

Table 18. Weights and dimensions (continued)

	Fixed seat section	Sliding seat section
Height (C) low to high	550 to 1040 mm	540 to 1030 mm
Length of the base (D)	1220 mm	1120 mm
Floor clearance (E)	5.5 to 30 mm	5.5 to 30 mm
Max height of the base (F)	160 mm	160 mm
Width of the base G)	550 mm	550 mm
Distance between the wheels (H)	960 mm	960 mm
Wheels (I) Ø	50 mm	50 mm

Figure 16. Table top dimensions with motorized leg section (mm)

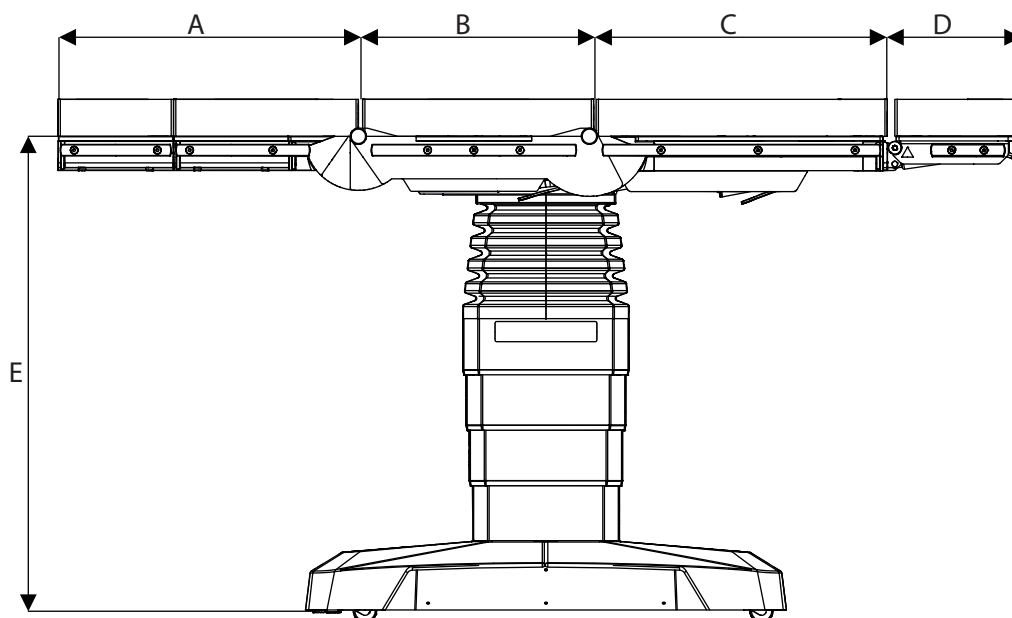


Table 19. Table top dimensions with motorized leg section

Table top dimensions with motorized leg section (mm)	
A	650
B	500
C	635
D	301

Table 20. Operating table height (E)

	Height (h) with fixed seat section	Height (h) with sliding seat section
Practico Max Lo height	553–1043 mm	540–1030 mm
Practico Max Hi height	653–1143 mm	640–1130 mm
Practico General height	598–898 mm	585–885 mm

Figure 17. Table top dimensions with manual leg section (mm)

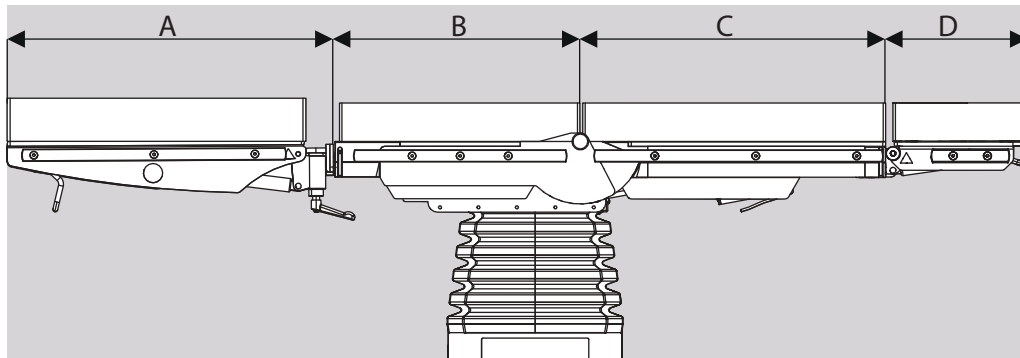


Table top dimensions with manual leg section (mm)	
A	678
B	510
C	635
D	301

6 Cleaning

6.1 Cleaning warnings and cautions

WARNING

Cleaning and disinfecting must be done as described in this manual.

WARNING

Set the main switch to the OFF position and disconnect the mains cable from the wall socket before cleaning.

CAUTION

Clean the stainless steel surfaces on a regular basis, in order to maintain the best possible corrosion resistance. A thin layer of passive oxide film — which occurs on the surface of clean steel by the effect of chromium oxidation reactions — protects the stainless steel. Leaving stains, secretions, blood, dehydration or other contamination on the surface will weaken the stainless steel's corrosion resistance, and cause adverse changes that lead to corrosion.

CAUTION

Do not use detergents or disinfectants that contain chlorine or chlorine compounds that release chloride ions. Cl-1, natrium, caustic, peroxide or sodium concentrated cleaning solutions or bleaching detergents, and also other corrosive detergents, including detergent vapours in the air will damage the passive chromium oxide film on the stainless steel.

CAUTION

Always remove the cleaning and disinfectant residues by rinsing with a small amount of clean warm water, or a damp cloth. Dry the surfaces carefully and, in particular, note the table joints as well as junctions of the table structure. Also check out whether there are cuts on the surfaces.

CAUTION

Machine disinfection of the operating table is prohibited.

CAUTION

Clean and disinfect the control panels and control units only when necessary. Wipe with a small amount of suitable detergent. Ensure that the connections of the control units remain dry during the cleaning process.

 CAUTION

The operating table has been classified as splash-proof equipment. Never use pressurized water or an intense spray to clean or disinfect the operating table. Follow the guidance in this user manual when cleaning and disinfecting the operating table.

 CAUTION

The surface of mattresses is electrically conductive. Always clean the mattresses using a neutral detergent..

 CAUTION

Disregarding of the guidelines presented in this user manual can result in loss of product warranty.

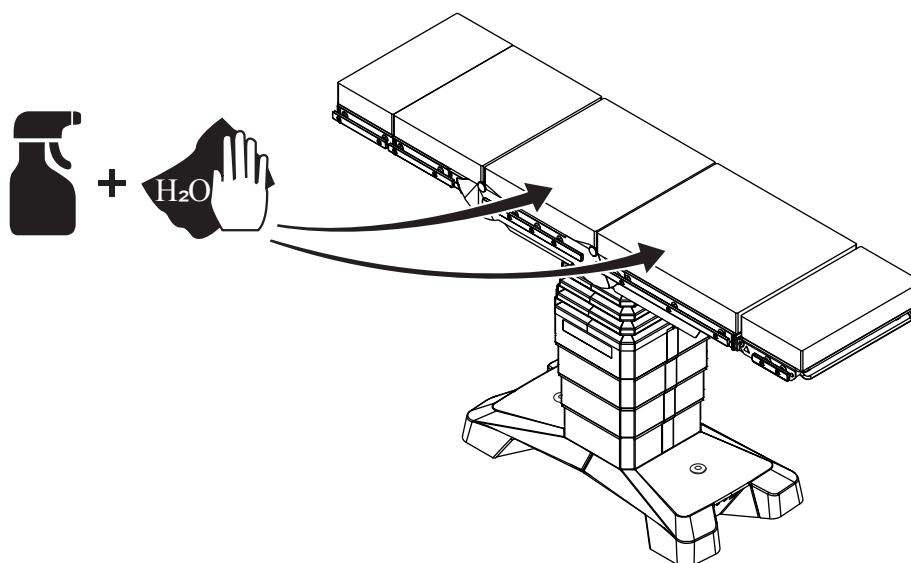
 CAUTION

Clean the table carefully after every surgical procedure. If necessary, protect the inner parts of the column before cleaning.

6.2 Cleaning

6.2.1 Cleaning mattresses and plastics

1. Remove accessories.
2. Clean by wiping with a slightly alkaline detergent (pH 7-8).
 - It is recommended to use detergent which contains phosphate or tensides.
 - Clean difficult stains and heavily soiled surfaces with a small amount of undiluted detergent.
3. Remove excess detergent by gently rinsing or with a damp cloth.
4. Dry the surfaces carefully immediately after cleaning or disinfecting.

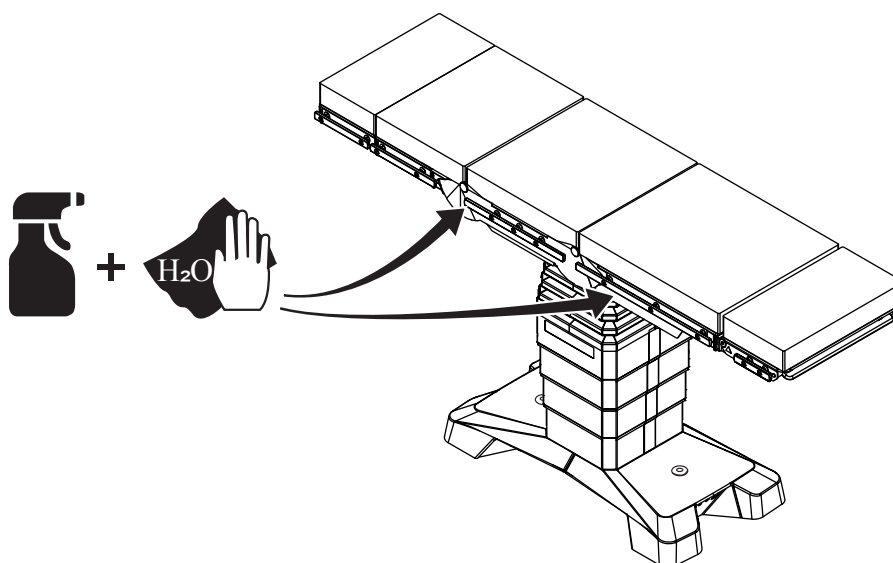


 WARNING

Clean the mattresses only with a neutral detergent (pH 7–8). The antistatic properties of the operating table require the use of original brand mattresses and antistatic flooring.

6.2.2 Cleaning metal parts

1. Wipe the surfaces with a damp cloth and use a non-abrasive detergent.
 - Use only neutral detergent or soap suitable for stainless steel (pH 7 to 8).
2. Remove excess detergent by rinsing gently or with a damp cloth.
 - Remaining substance on the surface material forms a chemical pair which may lead to the emergence of general, crevice or pitting corrosion, also on stainless steel-made parts.
3. Dry the surface carefully after cleaning to keep the product in good visual condition.



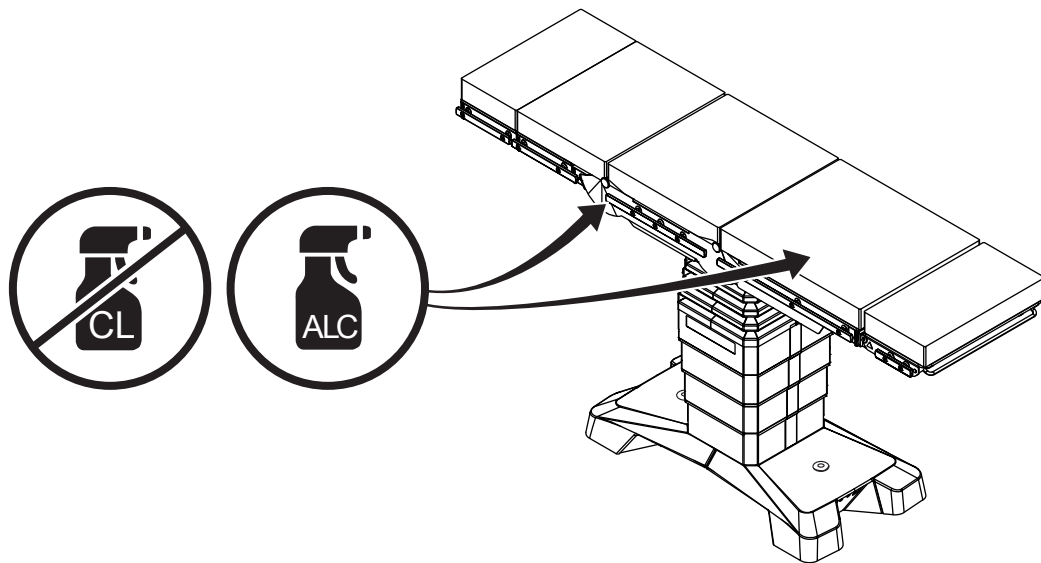
6.3 Disinfection

6.3.1 Disinfecting mattresses and plastics

1. Remove accessories.
2. Wipe the surface with disinfectant according to disinfection instructions. Do not use a surface disinfectant that contains phenols and alcohol, which can corrode plastic parts and mattresses.
3. Remove the disinfectant residues gently by rinsing with lukewarm water or by using a damp cloth.
4. Dry the product carefully immediately after cleaning or disinfecting.

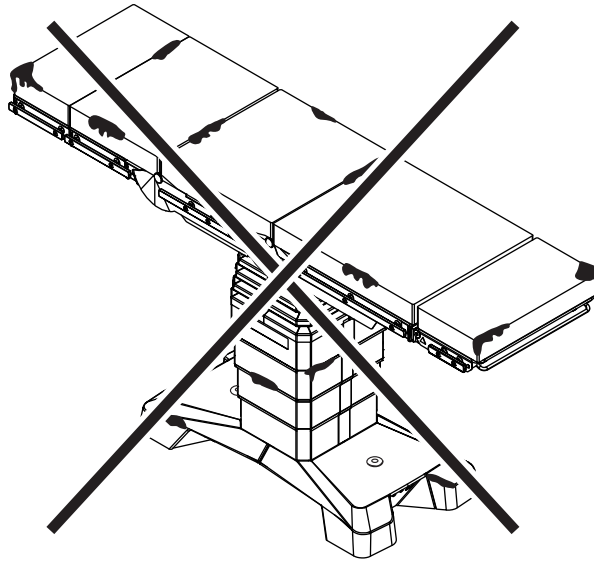
6.3.2 Disinfecting metal parts

- Do not use disinfectants that contain chlorine or release chlorine compounds. These cause corrosion even on stainless steel surfaces.
- Alcohol-based disinfectants can be used for stainless steel.



Gently rinse or wipe with a damp cloth to remove disinfectant residues from stainless steel parts, such as accessory rails, seat joints and joint cover plates, latches, and table top screw heads.

- Keep surfaces as clean as possible: Residues of detergents may weaken the stainless steel material properties which protect the surfaces from corrosion.
- Prevent long-term exposure to any type of liquids.
- Use disinfectants only moderately. Remaining substances in structural cavities and galvanic seams can cause surface corrosion.



- Avoid contact objects made of iron or rubbing against the stainless steel with such pieces, as it may result in corrosion on the surface. Avoid also iron-rich water.

The most effective disinfectants for stainless steel surfaces are detergents that contain the following compounds:

- aldehydes
- quaternary compounds (ammonia)
- guanidine derivatives (cyanamide)

 WARNING

Do not use the operating table in an environment where toxic chemicals (for example Sterisol) compounds are sprayed in the air using fogging devices or other automated systems. This will lead to corrosion and harm sensitive electronics inside the table. Transfer the table to an environment where it is not exposed to this kind of disinfecting applications and procedures.

 CAUTION

When in long-term storage, treat the steel surfaces with a protective agent intended for stainless steels. Please also note the environmental conditions of storage specified in this user manual.

 CAUTION

Clean chemically treated surfaces, for example epoxy coating, as described in this manual. Make sure that the cleaned surface is not worn or damaged. General corrosion, contamination, crevice or pitting can occur on damaged surfaces.

7 Recycling

7.1 Metals and plastics

When disposing of a product or replacing any of its parts, check the recyclability of each item. A majority of the metal used in the operating table and its accessories is stainless steel or epoxy/zinc coated steel. Other metals used are anodized aluminium.

When recycling plastic parts, determine the material type. Refer to the table in section to confirm whether or not recycling is possible. For more information about recycling, contact your local waste management facility or visit related sites on the internet.

The recycling symbols below are marked on parts that are made of plastic. Parts marked with these symbols can be used as energy waste.



PET



PE - HD



PE - LD



PP



PS



O

7.1.1 Gas springs

WARNING

Releasing of nitrogen gas is strictly prohibited! Recycle the gas springs according to your local recycling regulations. Dismantling is only allowed by a professional. Do not open – high pressure.

7.1.2 Electronic waste and batteries

Electronic components and devices must be disposed of according to local waste regulations.

The symbol below informs that the product contains electronic devices and cannot be disposed of with general waste. In such cases, the product must be separately disposed of; it cannot be included in municipal waste.



Note: Lithium batteries need to be disposed of according to local waste regulations.

WARNING

Damaged lithium batteries must be transported and disposed of as hazardous waste.

8 Maintenance and service

8.1 Safety during maintenance procedures

WARNING

Only authorized service personnel are allowed to maintain and repair this equipment.

WARNING

Only authorized service personnel are allowed to change the battery pack.

WARNING

Only Merivaara-licensed electricians are allowed to service the electronics of the table.

WARNING

Before any maintenance and repair, disconnect the mains cable from the wall socket and turn the main switch to the OFF position. This completely isolates the operating table and its electrical components from supply voltage. There is 100-240 VAC~ voltage inside the table base. Hazard of electric shock.

WARNING

Turn the main switch to the OFF position before connecting or disconnecting any electronic components in order to protect them against voltage surges. Disconnect the mains cable.

WARNING

Static charges can cause sparks harming sensitive electronic components. Ground yourself to metallic parts of the table before touching electronic components.

WARNING

Always wear disposable gloves and a mask when working on used tables, due to a risk of infection or disease. If the table appears to have an excess of bio waste, clean and disinfect the table before the service. The service personnel must be trained to use the personal protective equipment.

CAUTION

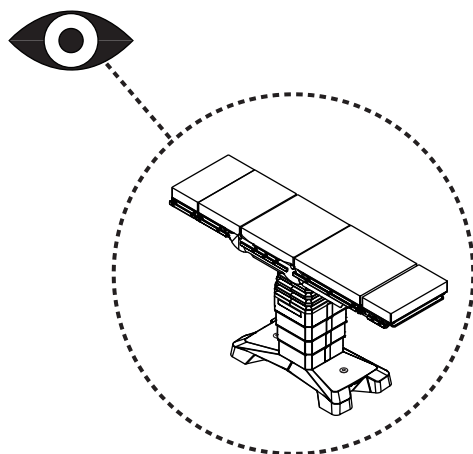
Do not modify routing of cables during maintenance procedures.

8.2 Before starting any service or maintenance work

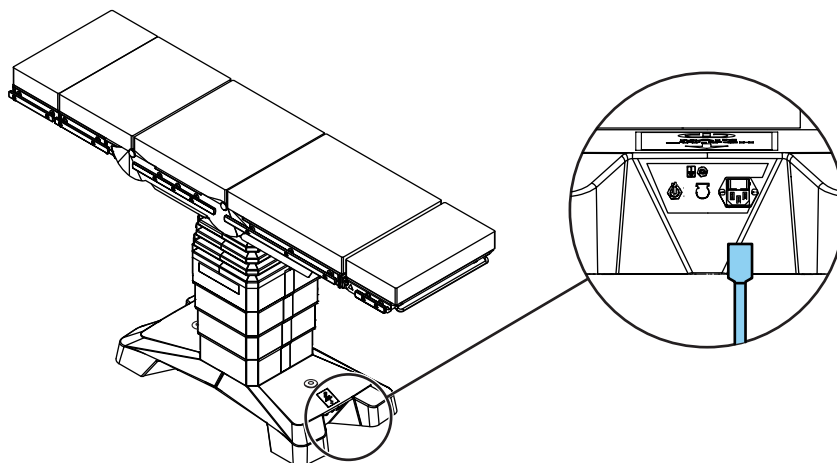
1. Set the main switch to the OFF position.
2. Disconnect the mains cable.

8.2.1 Daily maintenance

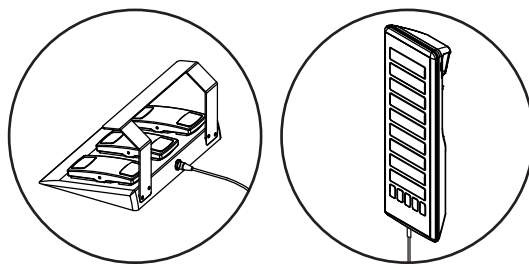
1. Check the condition of the table and mattresses. Do not use broken or worn mattresses. Contact service personnel if needed.



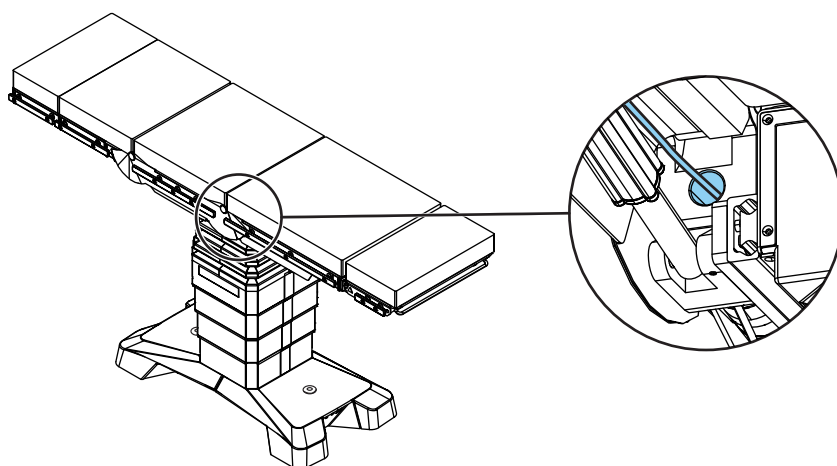
2. Disconnect the mains cable and check its condition. Do not use a damaged cable.



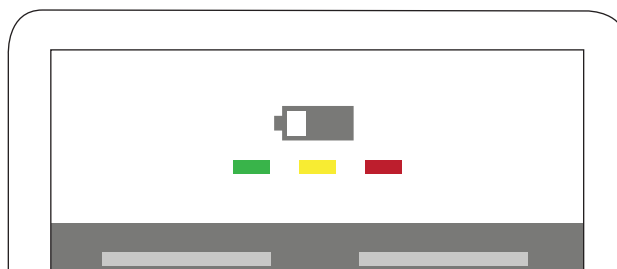
3. Check the functionality and the cables of the foot and hand control units.



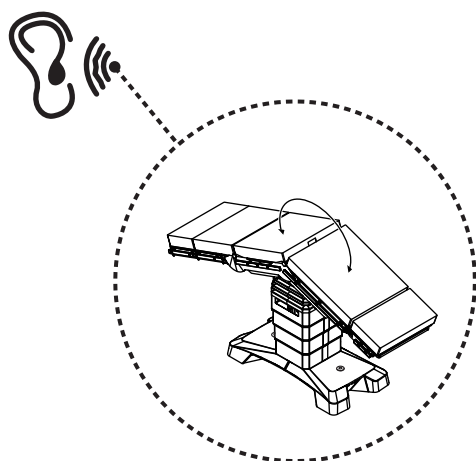
4. Check the condition of the back section actuator cables in the joint pivoting area between the seat and back section.



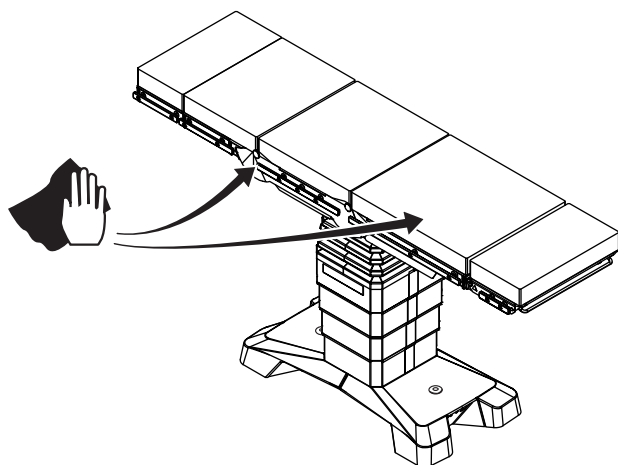
5. Charge the table battery to ensure sufficient charge level and long service life.



6. Check that there is no abnormal noise during adjustments.

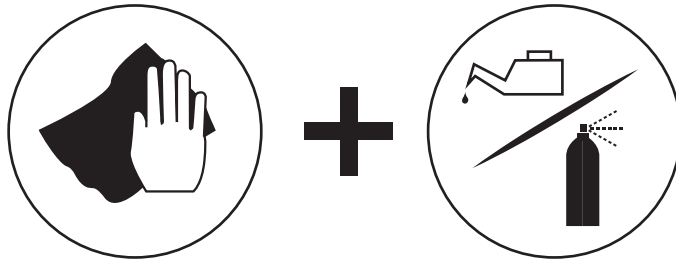


7. Clean the table after maintenance and each surgical procedure.

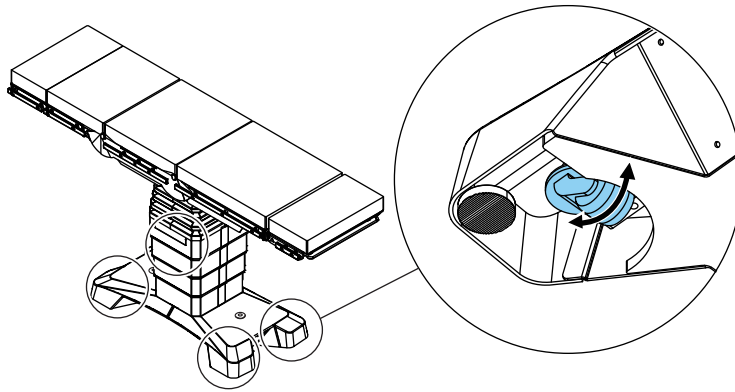


8.3 Monthly maintenance (by Merivaara trained service personnel only)

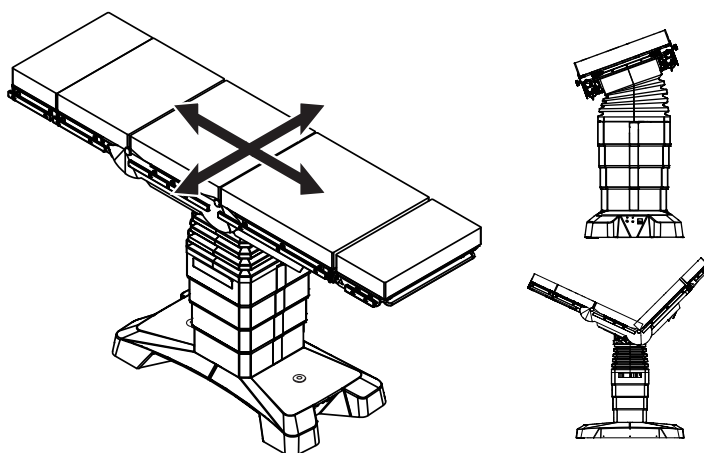
1. Using light machine oil or Vaseline spray, clean and lubricate:
 - guide pins
 - latches
 - spring-loaded pins
 - pivoting points of the back section



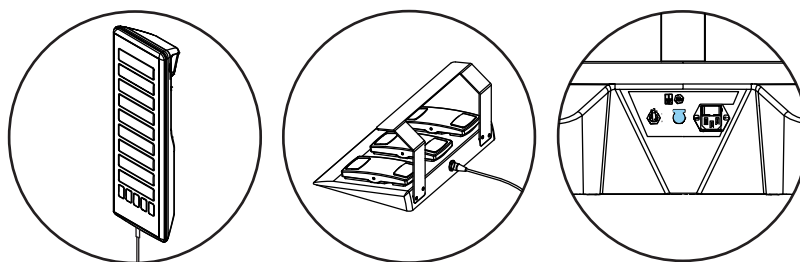
2. Check that the wheels roll smoothly and the floor lock operates correctly.



3. Extend and retract all table adjustments and check the -0- positioning function.

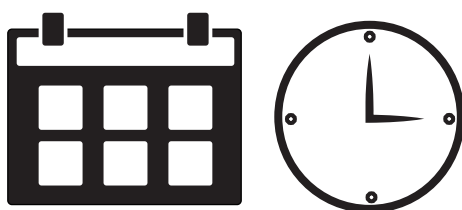


4. Check hand control unit and foot switch cables, connectors and receptacles.

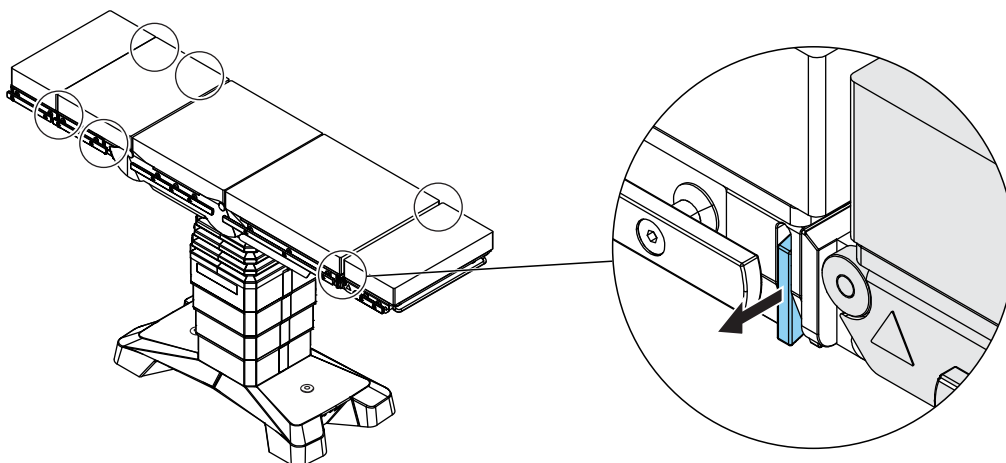


8.4 Annual maintenance (by Merivaara trained service personnel only)

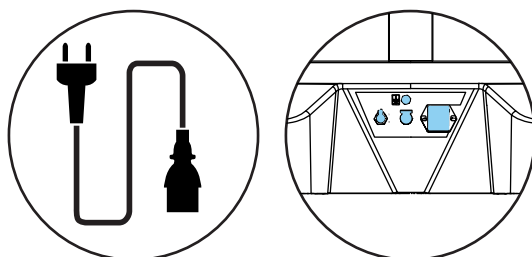
1. Perform all daily and monthly service actions.



2. Check that the table section's latches are operational.

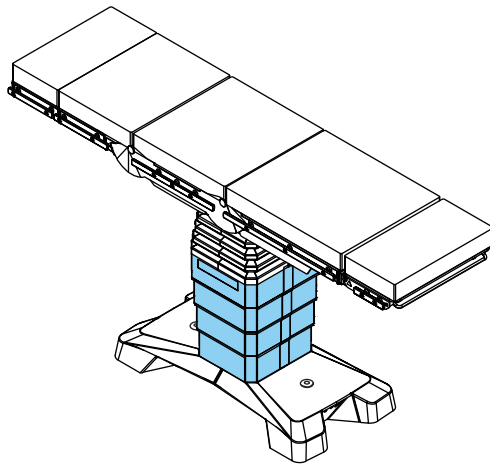


3. Check cables and connectors.



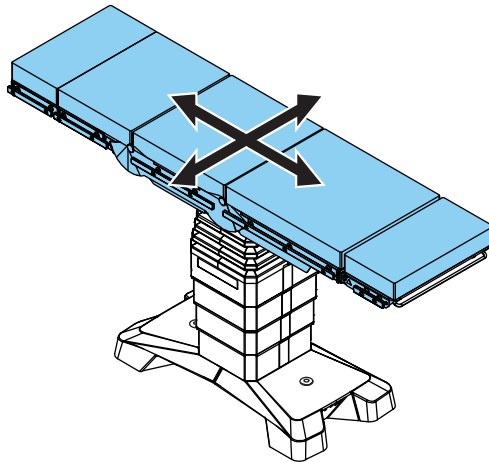
4. Check the operating table column construction.

- Do not use the table if the column is damaged or crooked.

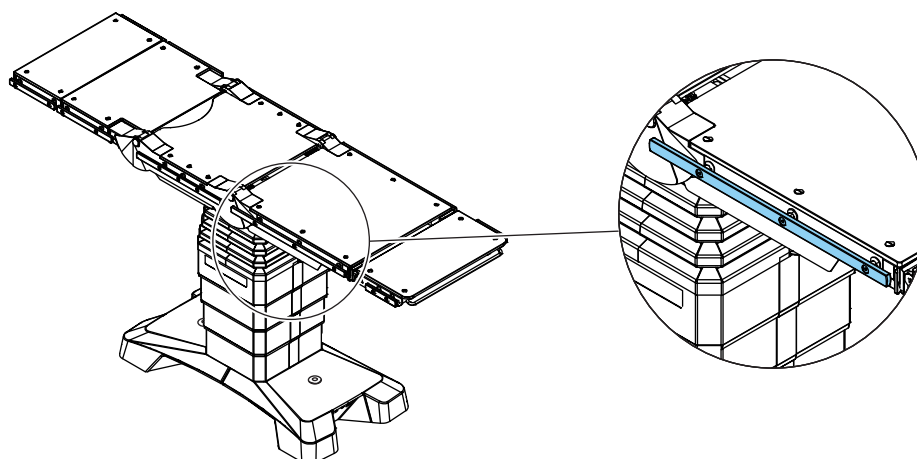


5. Check the -0- position. Calibration is needed if:

- table position parameters are not set correctly
- adjustment sets the table into an incorrect position
- -0- position is not within range



6. Ensure that accessory rails are properly mounted and not worn.



8.5 Troubleshooting

When troubleshooting, check the following items first:

1. Does the malfunction affect all table control functions?
2. Does the malfunction affect one control function only?
3. If the problem affects one control function only, does it do so in both directions?
4. Does the table move?
5. Does the table maintain its position?

Malfunction in one of the following components affects all control functions:

1. Hand control unit or control box
2. Battery
3. Power source/battery

Malfunction in one of the following components usually affects only one function:

1. Motor
2. Gas spring
3. Hand control unit or control box

8.5.1 Possible situations

PROBLEM	Table does not work when pressing an adjustment button	PROCEDURE
CAUSE	Main switch in the OFF position	Set to the ON position
	Foot control unit not connected properly	Check the connection

PROBLEM	Table does not work when pressing an adjustment button	PROCEDURE
	Faulty hand control unit	Contact service. In emergency situations, use the back-up control unit
	Broken hand control unit cable	Contact service
	Table battery not charged	Connect mains cable to a wall socket
	Faulty control unit	Contact service
	Faulty motor	Contact service
	End position already reached	Check table positioning
	Making restricted table adjustments	Check table positioning

PROBLEM	Table movement does not stop when function button is released	PROCEDURE
CAUSE	Severe failure of electronics	WARNING! Switch power OFF and disconnect mains cable.
	Faulty hand control unit	WARNING! Switch power OFF and disconnect mains cable.

PROBLEM	Incorrect table adjustment when control unit button is pressed	PROCEDURE
CAUSE	Incorrect control box connections	Check and install correct cables

PROBLEM	Leg section cannot be adjusted horizontally	PROCEDURE
CAUSE	Faulty gas springs	Contact service

PROBLEM	Adjustment is not in range or tolerance	PROCEDURE
CAUSE	Actuator hall sensor normal variation	Fully extend and retract all adjustment back and forth.

PROBLEM	Actuator moves when pressing adjustment button, but "Beep- Beep-Beep-Beep..." is heard	PROCEDURE
CAUSE	-0- position calibration is not performed	Contact service
	-0- position memory is corrupted	Contact service

PROBLEM	Actuator moves when pressing adjustment button and stops automatically within 1 to 2 seconds. Actuator motion is not continuous	PROCEDURE
CAUSE	Actuator's Hall sensor is broken	Contact service
	Actuator's load current limit exceeded	Check the actual load and the safe working load (SWL) and a possible collision between the table top and the surroundings. Decrease the load and clear the operating table surroundings to prevent possible collisions.

8.6 Contact information

Further information on service and spare parts is available from your local dealer or from Merivaara After Sales.

Merivaara Corp.	+358 3 3394 611
E-mail	service@merivaara.com
Internet	www.merivaara.com

9 Guidance and manufacturer's declaration

9.1 Electromagnetic compatibility

This operating table has been tested according to IEC/EN 60601-1 to ensure proper electromagnetic compatibility. Portable and mobile RF communications equipment can affect the Practico operating table.

Other products used in the vicinity of the operating table should also comply with this standard.

Practico may emit levels of EM energy that cause EMI in other devices in the vicinity, and can potentially cause RF emissions that affect other devices.

WARNING

Extremely strong EM disturbances may cause unintended movement of the table. Also abnormal operation in indication lights may occur.

WARNING

Use the operating table only in facilities that are made for medical purposes and that are equipped with an electromagnetic environment specified in this guide. The customer or the user of the operating table must assure that ensure that the operating tables are used in such an environment.

WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment (Merivaara Corp.) can result in:

- increased electromagnetic emissions
- decreased electromagnetic immunity
- improper operation.

WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the ME equipment or ME system, including cables specified by the manufacturer. Otherwise, the performance of this equipment may degrade.



Note: The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

Guidance and manufacturer's declaration - Electromagnetic emissions		
Emissions test	Compliance	Electromagnetic environment - guidance
Conducted and radiated RF emissions CISPR 11	GROUP 1 CLASS A	Operating table does not intentionally create RF energy. Therefore, its RF emissions are low and are not likely to cause any interference in nearby electronic equipment.
Harmonic distortion IEC 61000-3-2	CLASS A	
Voltage fluctuations and flicker Complies with IEC 61000-3-3		

Guidance and manufacturer's declaration - Electromagnetic immunity			
Operating table is intended for use in the electromagnetic environment specified below. The customer or the user of the operating table must assure that it is used in such an environment.			
Immunity test	IEC/EN 60601-1-2 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC/EN 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	The antistatic properties of the table depend on the use of the original mattress set and the use of conductive floor material. To prevent ESD, floors should be made of antistatic material, exp. wood, concrete, ceramic tile, or other antistatic material, and the user must not wear shoes made of non conductive plastic. If floors are made of synthetic material, the air humidity must be > 30%
Electrical fast transient/ burst immunity test IEC/EN 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical hospital environment. The table is mainly operated with an internal battery.
Surge immunity test IEC/EN 61000-4-5	Line to line 1kV Line to ground 2 kV	Line to line 1kV Line to ground 2 kV	Mains power quality should be that of a typical hospital environment. Table is mainly operated with an internal battery.
Immunity to conducted disturbances,	0.15 - 80 MHz 3V 6V in ISM bands	0.15 - 80 MHz 3V 6V in ISM bands	Portable and mobile RF communications equipment can affect the operating table and should be used

Guidance and manufacturer's declaration - Electromagnetic immunity			
induced by radio-frequency fields IEC/EN 61000-4-6			no closer to any part of the operating table, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Minimum separation distance from the table, connected accessories or its cables must be the distance indicated in the <i>Test specifications for immunity to RF wireless communications equipment</i> table below.
Power frequency magnetic field immunity test IEC/EN 61000-4-8	30 A/m	30 A/m	The operating table can be used together with medical devices complying IEC/EN 60601-1
Voltage dips, short interruptions and voltage variations immunity test IEC/EN 61000-4-11	30 % 500 ms 100 % 10 ms 100 % 5000 ms 100 % 20 ms	30 % 500 ms 100 % 10 ms 100 % 5000 ms 100 % 20 ms	Mains power quality must be that of a typical hospital environment. The operating table is mainly operated with internal battery.
Radiated RF EM fields IEC 61000-4-3	3 V/m 80 MHz – 2.7 GHz 80 % AM at 1 kHz	3 V/m 80 MHz – 2.7 GHz 80 % AM at 1 kHz	
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See table <i>Test specifications for immunity to RF wireless communications equipment</i> below.	See table <i>Test specifications for immunity to RF wireless communications equipment</i> below.	Recommended separation distance: $E = \frac{6}{d} \sqrt{P}$ Where P is the maximum power in W, d is the minimum separation distance in (m), and E is the IMMUNITY TEST LEVEL in V/m. Minimum separation distance from the table, connected accessories or its cables must be the distance indicated in the <i>Test specifications for immunity to RF wireless communications equipment</i> table below.

Test specifications for immunity to RF wireless communications equipment							
Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Immunity test level (V/m)	Remarks
385	380-390	Tetra 400	Pulse modulation 18 Hz	1.8	0.3	27	
450	430-470	GMRS 460, FRS 460	FM ± 5 kHz	2	0.3	28	

Test specifications for immunity to RF wireless communications equipment							
			deviation 1 kHz sine				
710, 745, 780	704-787	LTE Band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9	
810, 870, 930	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28	
1720, 1845, 1970	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28	
2450	2 400-2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28	
5240, 5500, 5785	5 100-5 800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9	

User training guidelines T404658–2

Product	
Date of implementation	
Serial number	
Customer reference number	

Location:		Date of product user training:	
------------------	--	---------------------------------------	--

Scope

The end user (nurse, anesthetist nurse CRNA, medical doctor, surgeon or other hospital personnel who use the product) must be trained according to these instructions by the person authorized or in charge of the end user's organization before use of the product (IEC 62366). The training scope also includes technical personnel training

Content of end user training

- Overview of the product
- Intended use
- Complete adherence of the user manual
- Cleaning and disinfecting procedures
- Daily maintenance intervals
- Patient and personnel safety factors
- Emergency use and call for service in case of malfunction
- Rights and liabilities, and who is in charge of actions and corrective actions, maintenance, cleaning, and inspections
- Warranty terms and conditions
- At the end of the training, participants will take a test to verify their understanding of the training content.

Documentation

- Responsibility for registration of the participants and maintaining records in the register lies with the end user's organization.

Duration

- The training should last approximately 1 hour. It is recommended to renew the training at least once every 3 years.

Content of technical personnel training

- Overview of the product
- Patient and personnel safety factors
- Start-up of the product, power supply, mains switch and fuses
- Cleaning after service
- Maintenance program: Inspection form, maintenance intervals
- Troubleshooting
- Maintenance in practice (required tools etc.)
- Replacing damaged parts
- Support services, contact information and subscription content, list of available spare parts
- At the end of the training, participants will take a test to verify their understanding of the training content.

Documentation

- Responsibility for registration of the participants and maintaining records in the register lies with the end user's organization.

Duration

- The training should last approximately 1 hour. It is recommended to renew the training at least once every 3 years.

WARNING

Disregarding these measures will void the warranty and may jeopardize the safety matters concerned which cannot be otherwise guaranteed.

I assure that the mentioned training measures are completed in accordance with the requirements given:

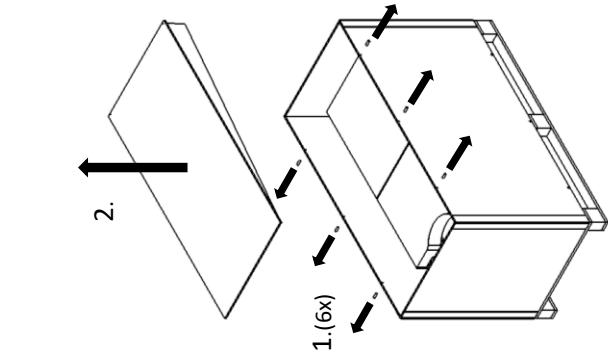
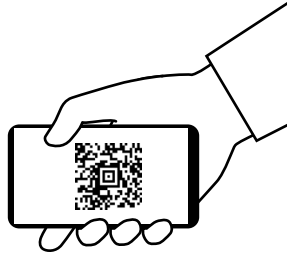
Number of participants:

Date	Signature/Stamp	Name of trainer

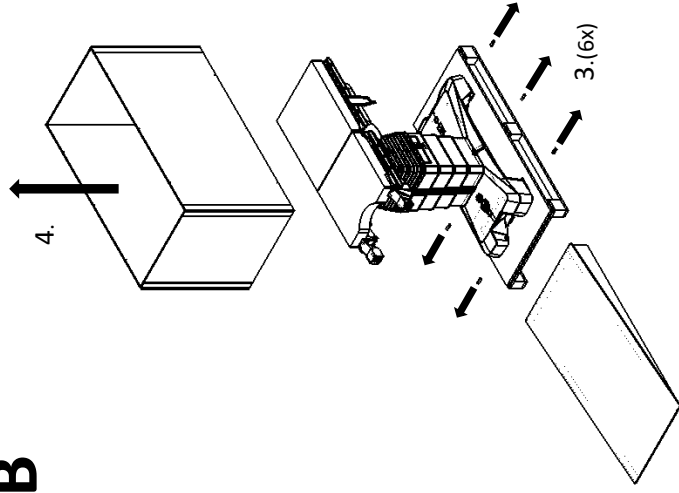




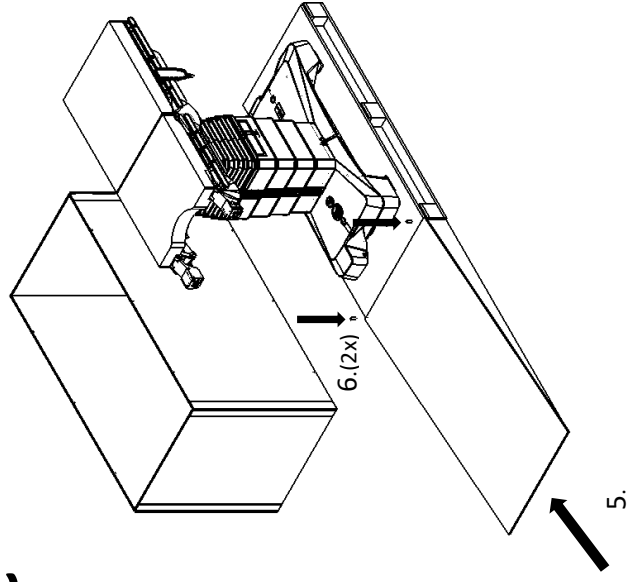
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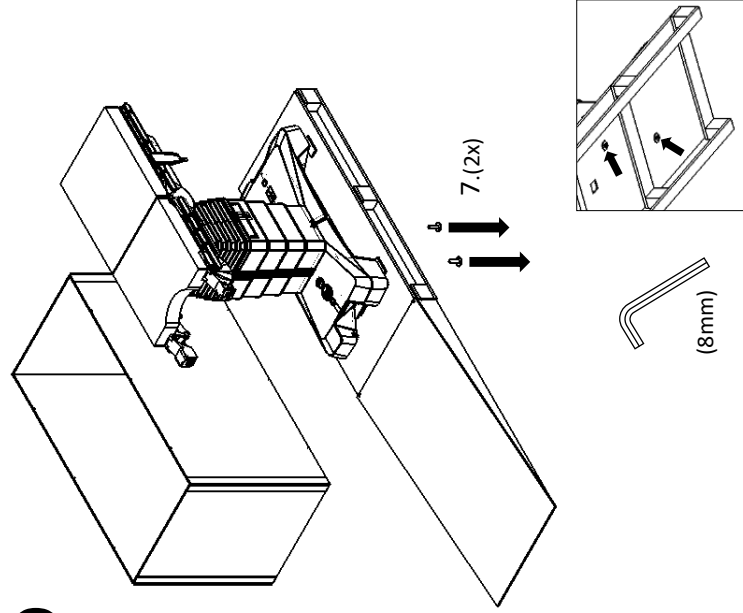
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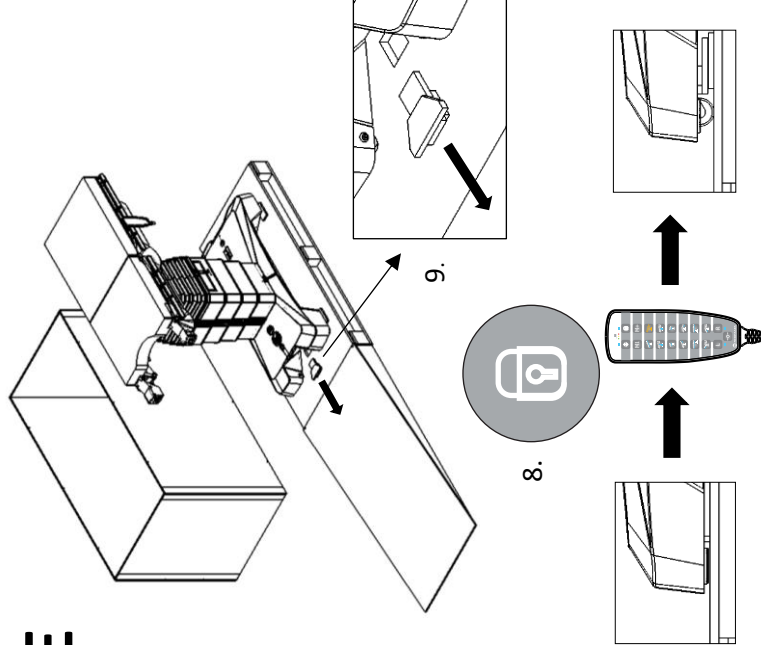
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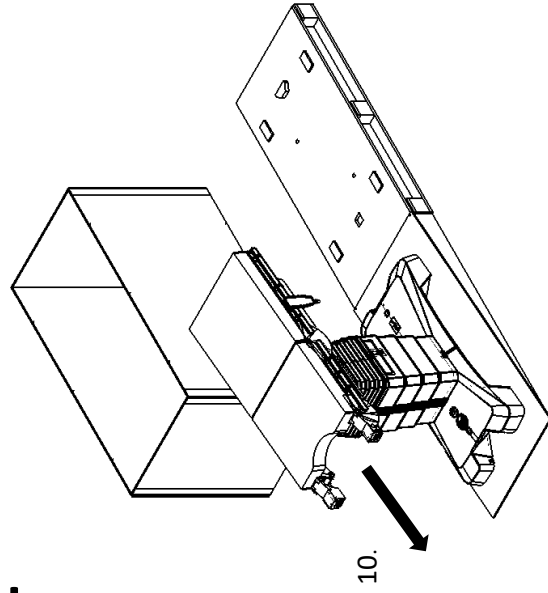
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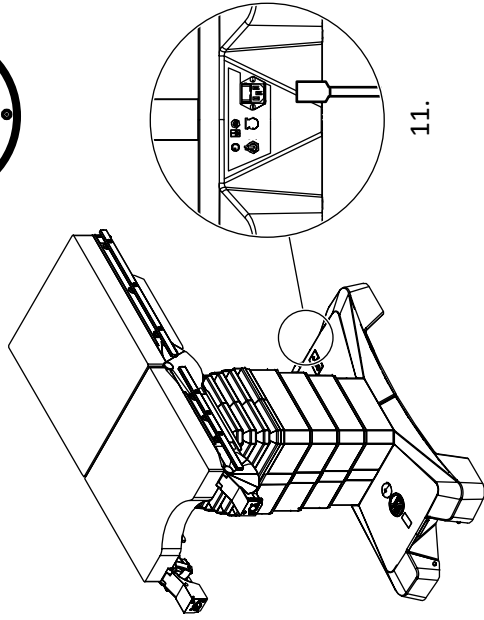
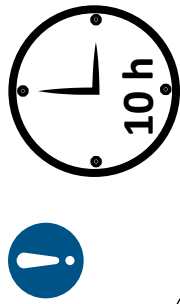
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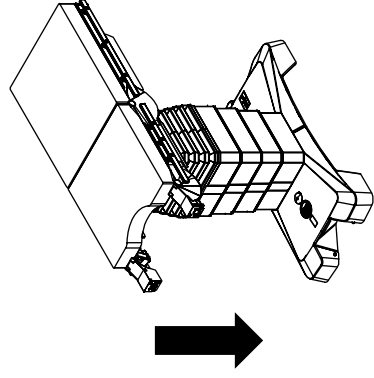
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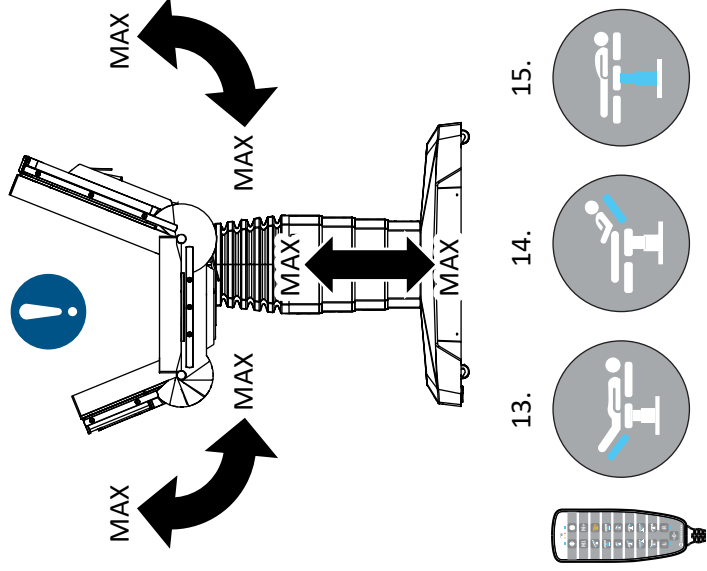
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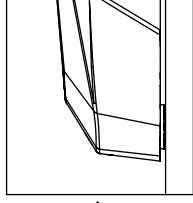
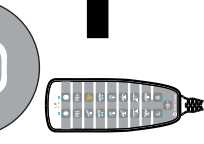
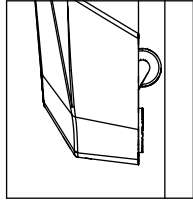
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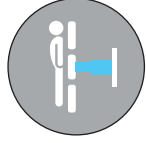
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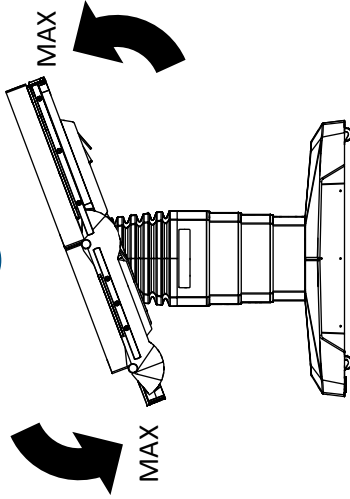
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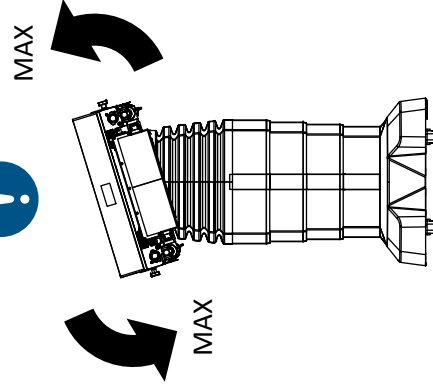
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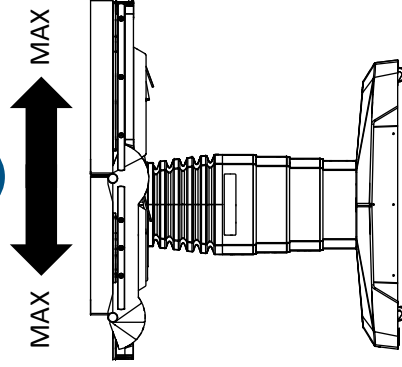
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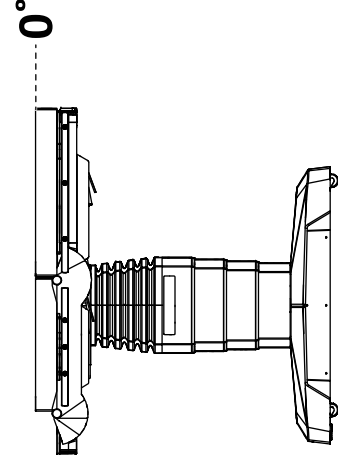
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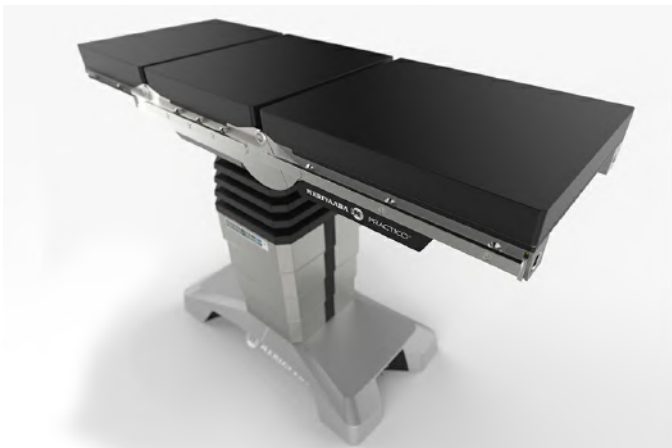


22.



SMARTER PRACTICO

The versatile operating table Practico has been designed to improve ergonomics with the industry's widest range of posture possibilities. It is powered by smart controls that help you work more fluently.



SUPER HIGH AND SUPER LOW

Improved ergonomics. Three different models, with motorized



STREAMLINED DESIGN

Human-centric design at its best. Perfect C-arm access. Easy to

leg sections as option.

The new smarter Practico is one of the lowest mobile tables in the market!

HIGH SWL

Stronger than ever. The new smarter Practico has improved safe working load and width extenders to help you to treat every patient regardless of their size and shape.

keep clean even

in the busiest patient flow situations. No mechanical pedals.

SMART FEATURES

Practico is easy and intuitive to use. The user interface is similar to other Merivaara's products. Smart features also include for example safety sensors and memory positions.

FENNIAprize 20

HONOURABLE MENTION

FENNIA PRIZE 2020 HONOURABLE MENTION

Smarter Practico® by Merivaara has been awarded the Fennia Prize Honourable Mention for the year 2020. The Fennia Prize is Finland's most prestigious business design competition.

Lifting column

- High version: 640–1130 mm
- Low version: 540–1030 mm
- General version: 585–885 mm

Dimensions are for slide version. Non-slide version is appr. 10 mm higher.

Seat section

- With or without slide
- With or without motorized leg section joints

Head sections

Standard head sections for standard and kidney-bridge back sections

Optional head sections for beach-chair and eye-ENT back sections

Back section models

- Standard
- Kidney bridge
- Eye-ENT
- Beach chair

Leg sections

- Gas spring assisted divided leg sections length 680 mm
- Gas spring assisted leg section, length 645 mm
- Gas spring assisted divided leg section, length 880 mm
- 25- and 40-sections
- 25-gynaecologic section
- Divided leg sections, 4 section incl. solid pelvic plate,

- length 865 mm
- Divided leg section double joint short, length 680 mm
- Light leg sections for motorized and non-motorized legs
- Light foot rest

Surgical table Practico is designed and manufactured in Finland.

Title	Practico General height, slide		Practico Max Hi height, slide		Practico Max Lo Height, slide	
Width (table top)	540 mm	21.26 in	540 mm	21.26 in	540 mm	21.26 in
Height adjustment	585 - 885 mm	23 - 34.8 in	640 - 1130 mm	25.2 - 44.5 in	540 - 1030 mm	21.3 - 40.6 in
Safe working load (SWL)	280 kg	617.3 lb	280 kg	617.3 lb	280 kg	617.30 lb
Trendelenburg	30 °		30 °		30 °	
Reverse Trendelenburg	30 °		30 °		30 °	
Back section adjustment	-40 - 70 °		-40 - 70 °		-40 - 70 °	
Mattress base (sections, pcs)	4-6		4-6		4-6	
Longitudinal shift of the table top	390 mm	15.4 in	390 mm	15.4 in	390 mm	15.4 in
Lateral tilt	-20 - 20 °		-20 - 20 °		-20 - 20 °	
Max. lifting capacity	460 kg	1014.13 lb	460 kg	1014.13 lb	460 kg	1014.13 lb
Product Code	145000		145000		145000	

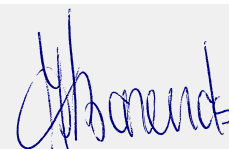
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Operating Table
Name and address of the applicant	Merivaara OY Puustellintie 2 FI - 15150 LAHTI Finland
Name and address of the manufacturer	Merivaara OY Puustellintie 2 FI - 15150 LAHTI Finland
Name and address of the factory	☐ Additional information on page 2
Note: When more than one factory, please report on page 2	Merivaara OY Puustellintie 2 FI - 15150 LAHTI Finland
Ratings and principal characteristics	100-240 Vac, 50-60 Hz, 350 W
Trademark (if any)	Merivaara
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	PRACTICO Ref:145000
Additional information (if necessary may also be reported on page 2)	☐ Additional information on page 2 All applicable clauses of IEC 62366:2007 + A1:2014 are taken into account
A sample of the product was tested and found to be in conformity with	IEC 60601-1-6:2010, IEC 60601-1-6:2010/AMD1:2013, IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-2-46:2016 National differences: CA, US
As shown in the Test Report Ref. No. which forms part of this Certificate	2214395.50 (consisting of sub reports with suffixes A, B, C and D)

This CB Test Certificate is issued by the National Certification Body

DEKRA Certification B.V.
Meander 1051, NL-6825 MJ Arnhem, Netherlands

DECLARATION OF CONFORMITY

Following the provisions of the Regulation (EU) 2017/745 on medical devices.

**MANUFACTURER****Merivaara Corporation****SRN**Puustellintie 2, FI-15150 Lahti, Finland
FI-MF-000001175

This declaration of conformity is issued under the sole responsibility of Merivaara Corporation

PRODUCT NAME	Practico
PRODUCT CODE	145000
CLASS	I
BASIC UDI-DI	643843505RE
EMDN CODE	Not available
GMDN CODE	33152, Universal operating table, electromechanical
CONFORMITY ASSESSMENT	Annex II, Annex III, Annex IV
INTENDED USE	The operating table is intended to be used for supporting a patient during surgical procedures. The table must be used in an operating room environment by trained healthcare professionals only.

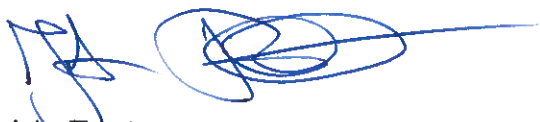
Product is in conformity with the applicable provisions to the Regulation (EU) 2017/745, Medical Device Regulation (MDR) of the European Parliament and of the Council. Conformity of the product is supported by meeting the ISO 9001 Quality Management Systems, ISO 13485 Medical devices - Quality management systems - Requirements for regulatory purposes, ISO 14001 Environmental Management System requirements and ISO 14971 Medical devices - Application of risk management to medical devices.

Product meets the following standards:

STANDARD

EN 60601-1:2005+A1:2012	General requirements for basic safety and essential performance
EN 60601-1-2:2014	Collateral standard: Electromagnetic compatibility – Requirements and tests
EN 60601-1-6:2010+A1:2013	Collateral standard: Usability
IEC 60601-2-46:2016	Requirements for the basic safety and essential performance of operating tables
EN 62304:2006+A1:2015	Medical device software – Software life-cycle processes
EN 62366-1:2007+A1:2014	Application of usability engineering to medical devices
CAN/CSA-C22.2 No. 60601-1:14	National deviation: General requirements for basic safety and essential performance
ANSI/AAMI ES60601-1:2005/(R)2012/A2:2010	National deviation: General requirements for basic safety and essential performance

Date: 10.05.2021
Place: Lahti, Finland


Juha Talmisto
CEO, Merivaara Corporation