

First Product - Model made from wood 1989 by Reinhold Ferstl



The IsoMed2000 product-family

2021







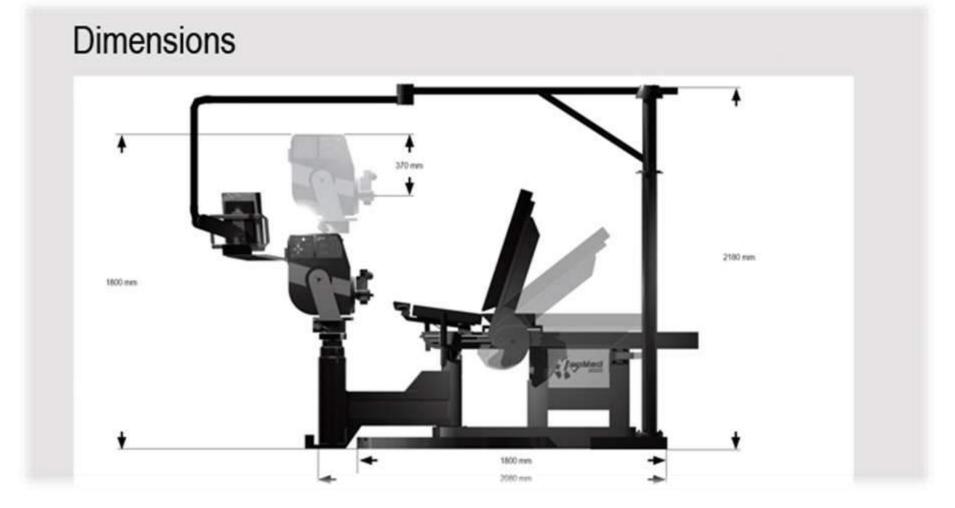




Technical data

	Standard	Optional
Torque, maximum, concentric/excentric	500Nm	700 750Nm
Torque, maximum at Emergency-Stop	1680Nm	1950Nm
Integrated electro-mechanic holding break	380Nm	
Speed, minimum/maximum	2°/s 450°/s	1°/s 560°/s
Operating range, any segment of a circle up to	340°	2 7 3
Acceleration and deceleration, maximum	8500°/s²	11000°s²
Max. motor capacity, 2,5s/10 minutes/unlimited	15/8/2.8 KW	20.5/11/2.8 KW
Torque measuring precision	0.25% FS	
Torque resolution	0.0244% FS/12bit	0.0015% FS/16bit
Torque filter cutoff frequency	200Hz	1000Hz
Angle precision directly on driveshaft	0.035% FS < 0.125°	-
Reverse backlash in cycloid gearbox without backlash	0°	-
Stiffness at +/-175Nm, +/-350Nm, +/-500Nm	28/39/45(Nm/arc min)	(4)

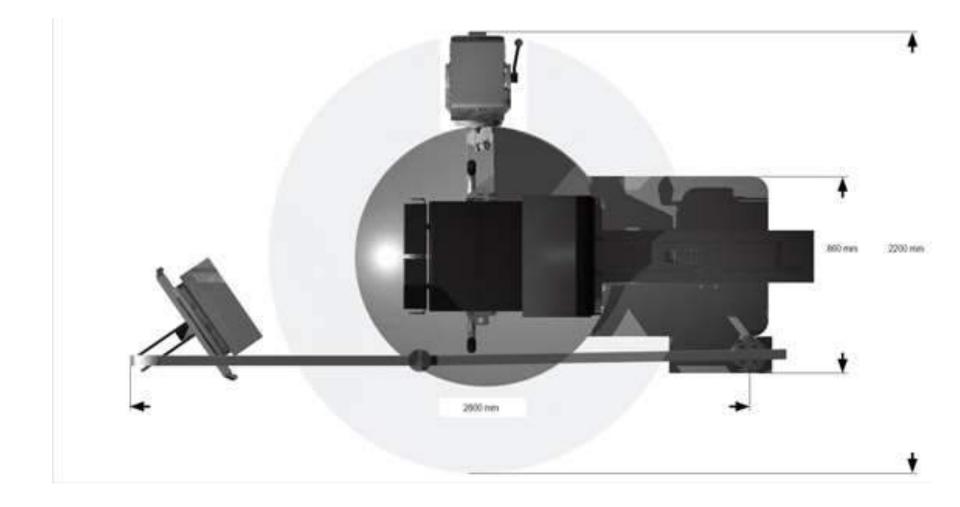




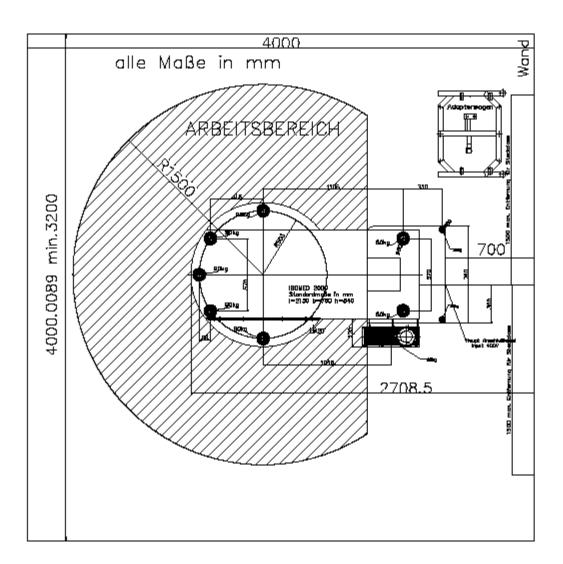


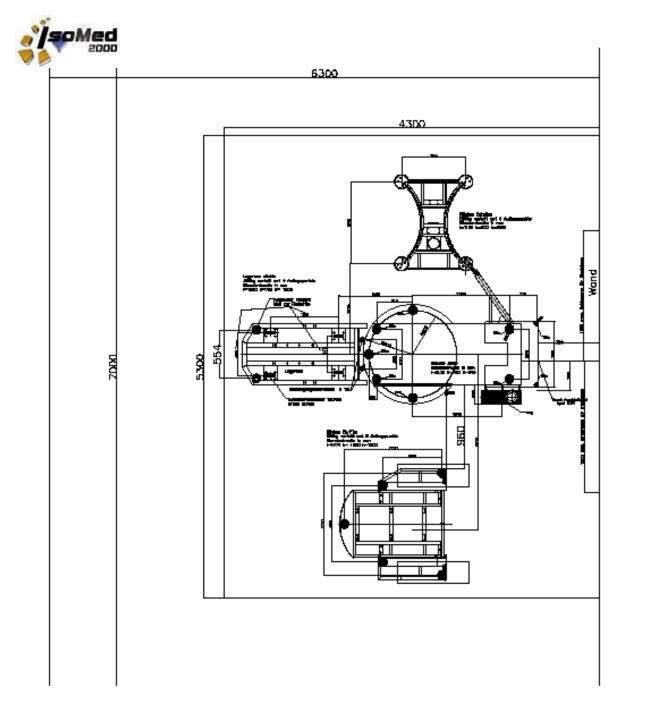




























Compact design

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High-End Dynamometer

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Electronic lifting solution

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Dynamerinalian asialitis concept combines function with exitence stability

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Use some of the best ideas on market with IsoMed 2000







Direct View for reliable and anatomical correct Biofeedback in nearly every situation.

Due to this highly flexible system it is even possible to get the perfect monitor positions on other modules like the Back Module or Legpress athletic. Direct Control to set any desired position absolutely perfect and precise. Nearly any position or rotation can be viewed and controlled from here.



Very flexibel Monitor – overhead – contruction. DIRECT-VIEW



Isomed2000 Dyanmomter

- Brushless SynchroniousAC-Servodrive.

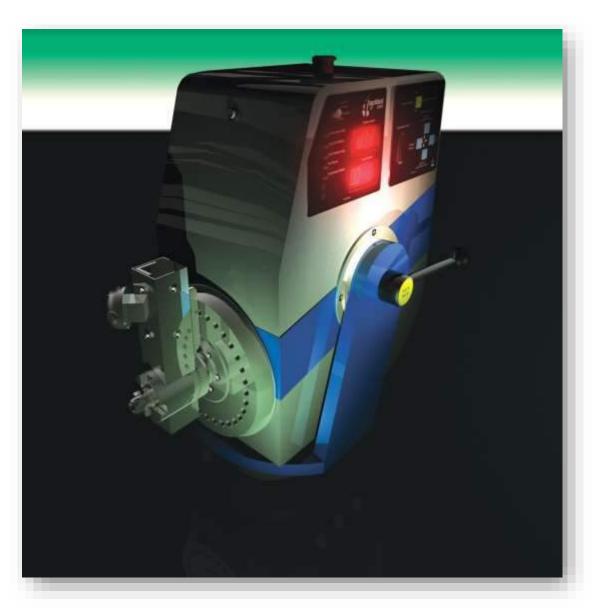
Torque sensor with telemetric signal transmissen (Kistler, Swiss)

Gap-free Gearbox from
robotic arms: Zero "back-lash"
Nominal peak torque up to
1570Nm software reduced to
max 750Nm.

both side push-button
control unit for easy operating
Hardened shaft for long term
module-docking

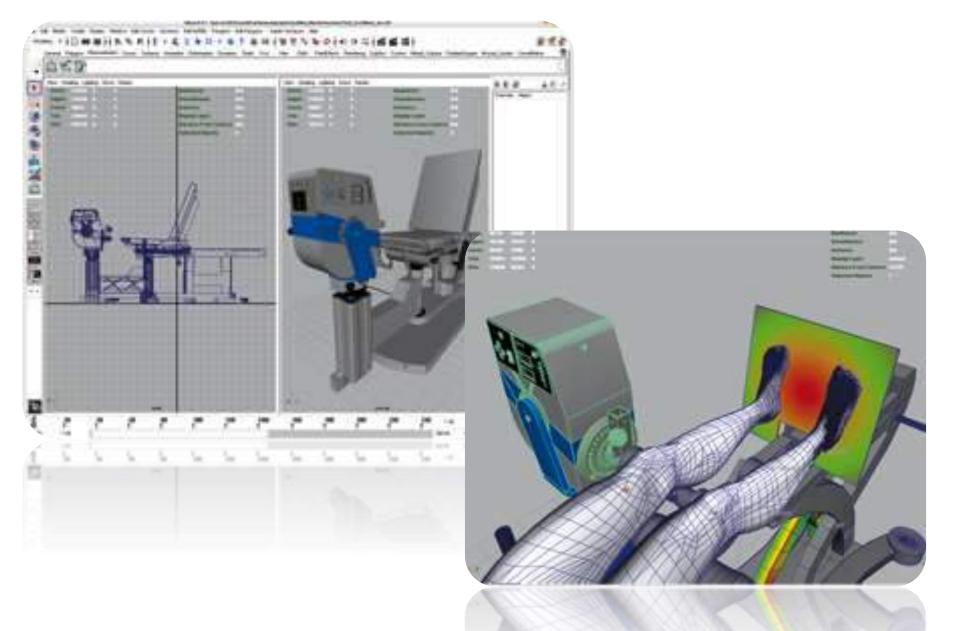
>Dynamometer digital inclination sensor.

>Dynamometer digital rotation sensor





Isomed2000 3d development



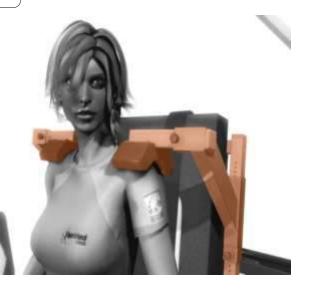


Use some of the best ideas on market with IsoMed 2000



Direct Connect integrated in the IsoMed dynamometer allows you to dock virtually every module available by D&R without messing around with screws, lockers or other uncomfortable stuff.

Your time for switching over modules will decrease drastically.



No more unstable fixations or slack belts will stand in your way for recreating the most precise measuring results available. The Shoulder support of the IsoMed 2000 keeps the test person stable in the desired position, even in high performance test or training.

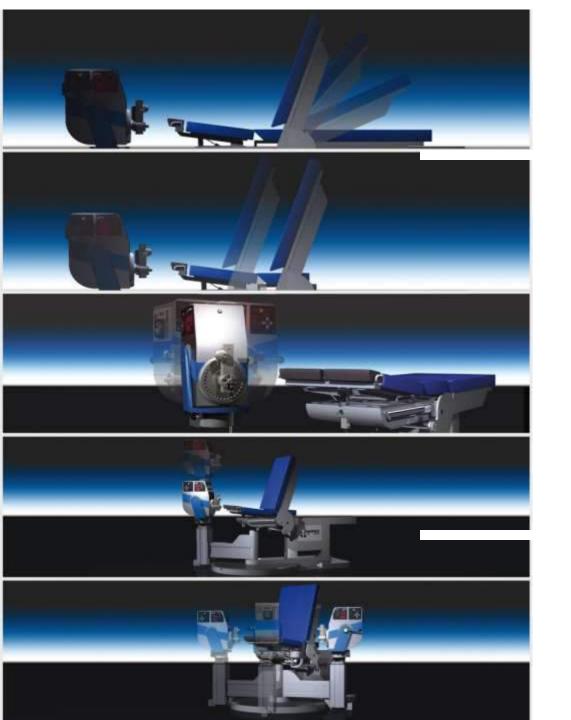


Always wondered why people using an IsoMed 2000 get their results that fast?





Our MEMOTRONIC plus+ gives its best!



MEMOTRONIC is a unique system of the IsoMed 2000 series. It enables you to do highly precise recurrences of already saved test person positions, to get lasting and reproducable measurement results - including all extra positions, like back rest inclination, back rest displacement, dynamometer rotation , dynamometer height or satellite arm can be adjusted automatically through servo drives.

But see for yourself what *MEMOTRONIC* can do for you!

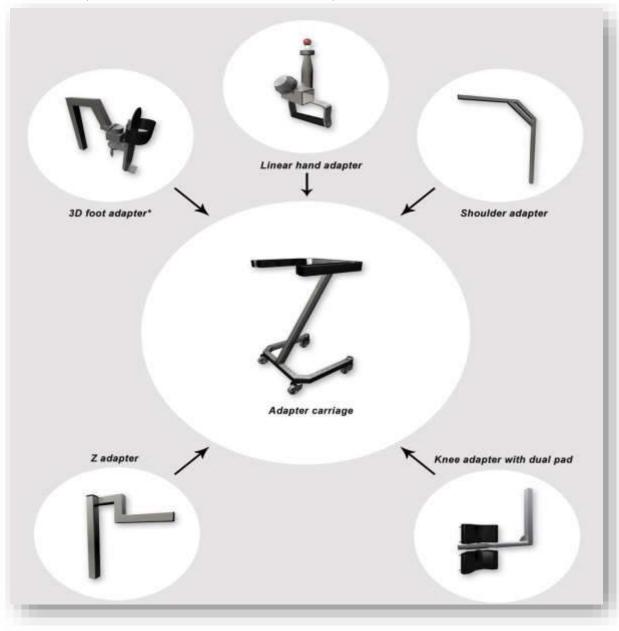




All seen adjustments are motor driven with "memotronic- self-positioning"



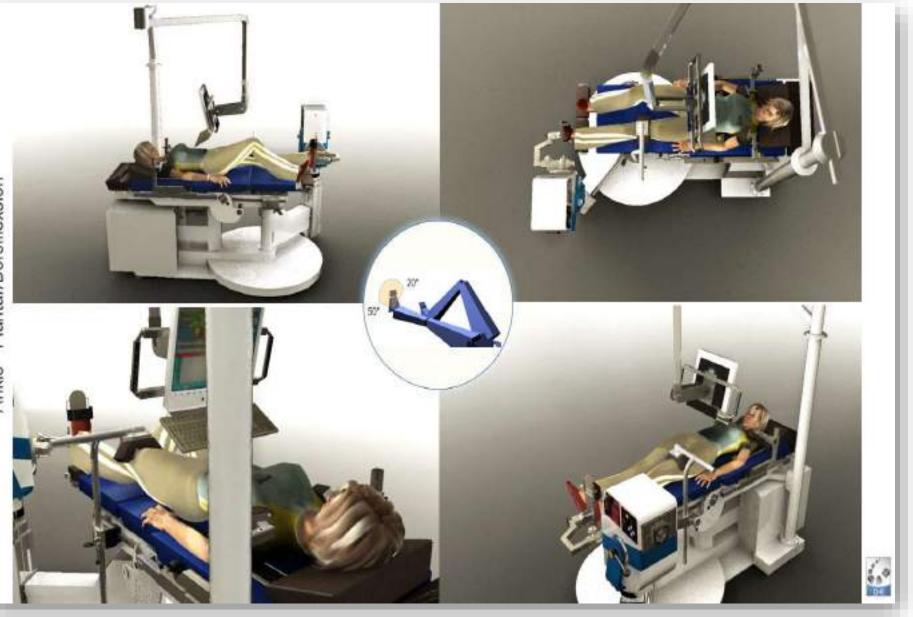
Selection of the Isomed2000 adapters for adjustment the different joints,





Selection of Position and Excercise Basic unit







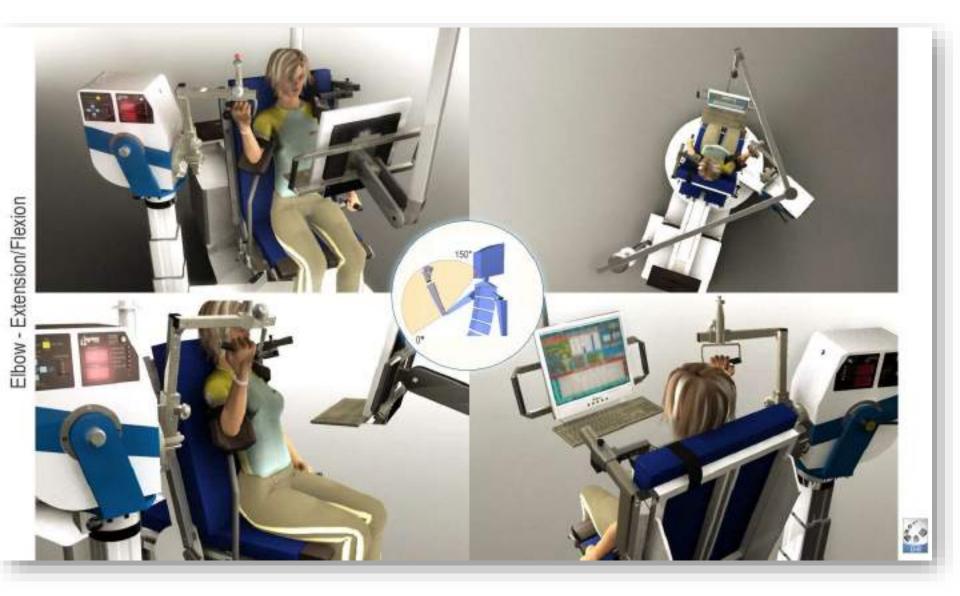






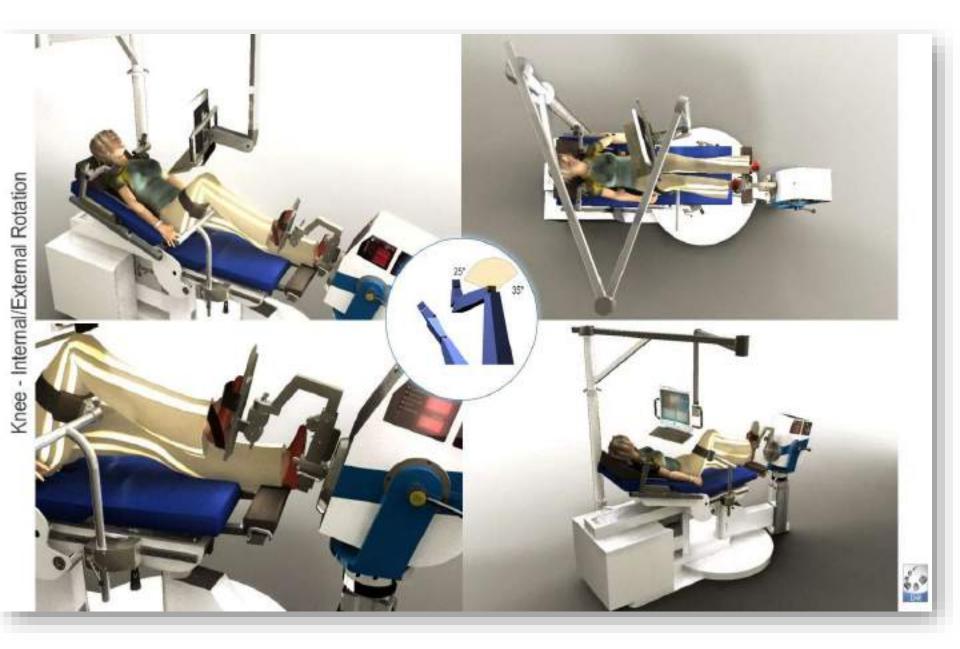




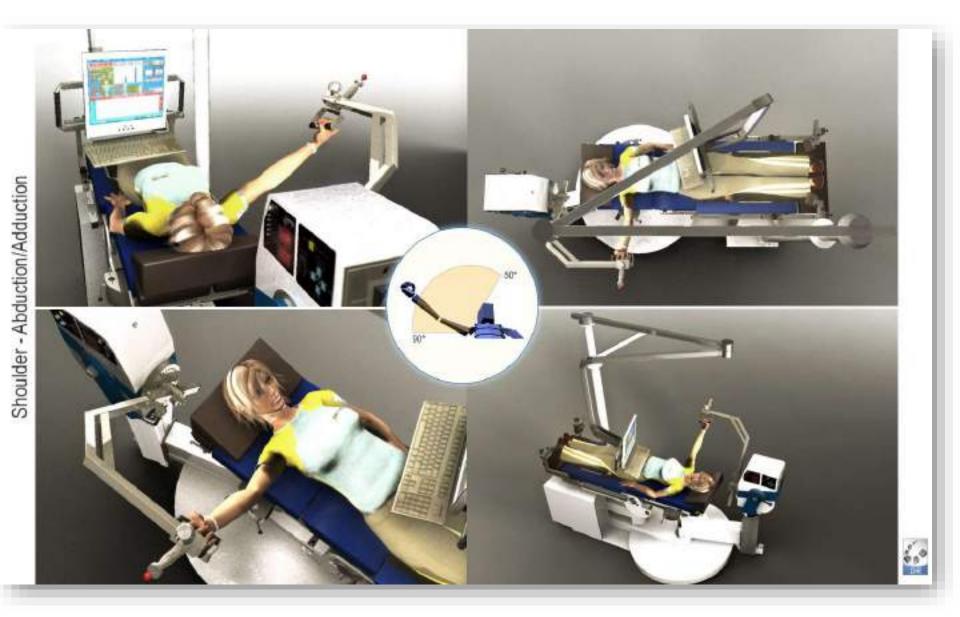


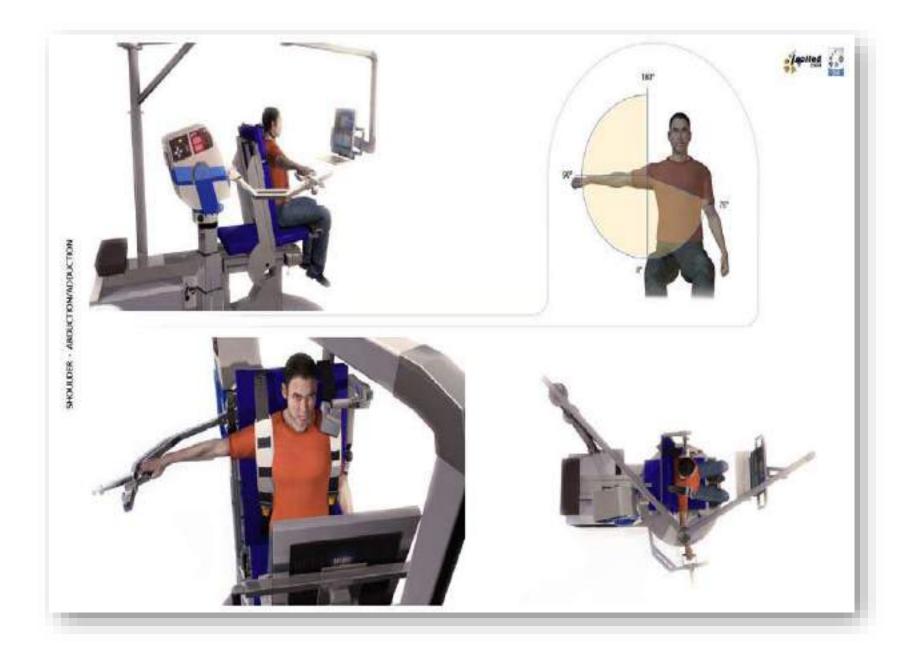


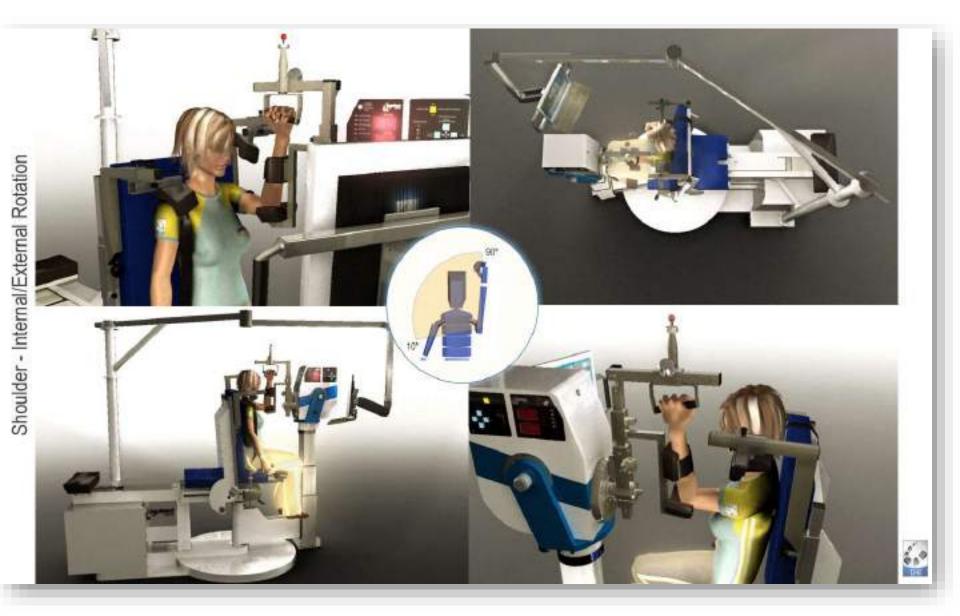


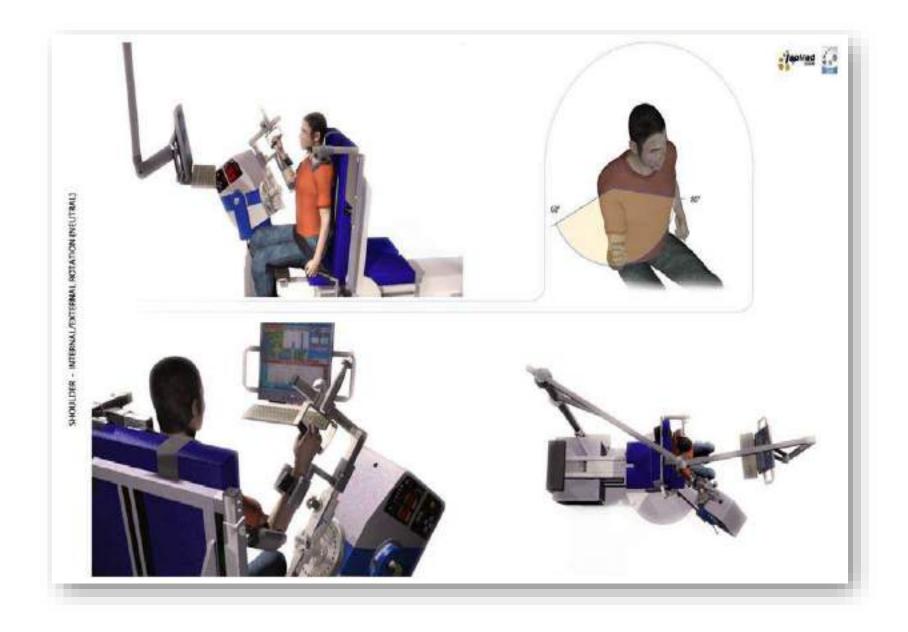




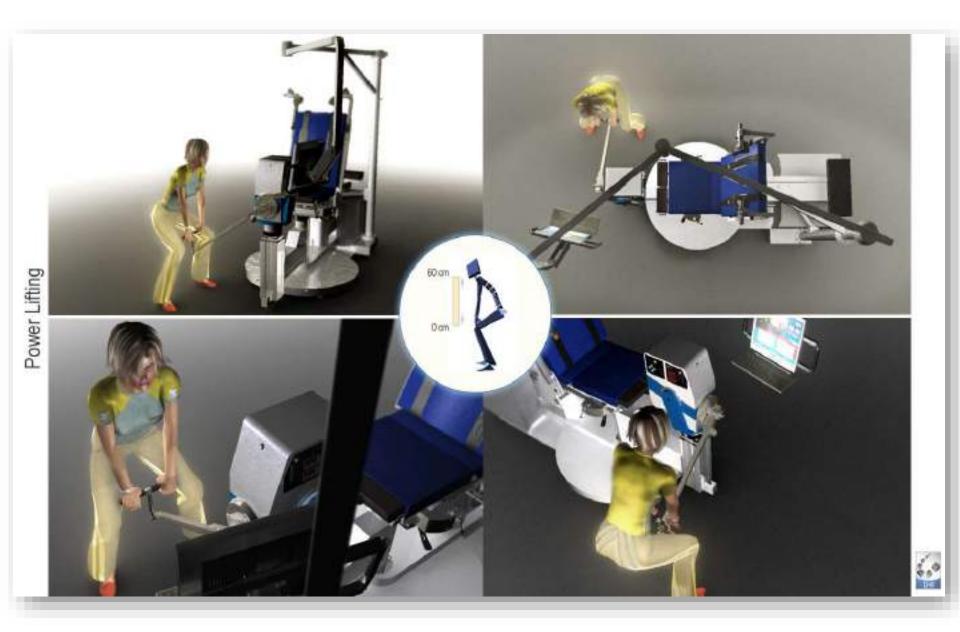


















The Isomed Basic device and its modules can be used for a wide range of test and trainings indications.

Isomed2000 at professional soccer club " HSV " Hamburg



Isomed2000 at soccer club " Bayer Leverkusen"



Isomed2000 at brand new ENVIHAB DLR Airpospace research center build for preparing human flight to Mars



In genuine Scientific area due to •high validity as a result of a sophosticated drive and measurement system.

 highest noise immunity by excellent electrical shielding and BRUSHLESS Servo Drives very essential for good EMG - Readings

* Up to 4 Analog outputs available for synchronization



For top athlets in rehabilitation eg.

the professional Cyclist and "Tour de France" winner during his rehabilitation after Knee surgery



For one of the strongest peoples in the atheltic area: Olympic gold medall winner in weight lifting in Beijing during his preparation for Olympic games in London

Eine Kniebeuge ist für Steiner ein Erfolg

PORT SED Reporter Bio

up Kilogramm.

Getränke-Kisten darf er nach seiner Verletzung noch nicht tragen. Aber Matthias Steiner will trotzdem um jeden Preiz 2012 in London sein Olympia-Gold verteidigen

VERLÄNGERUNG | MENSCH DER WOCHE

Von Distmar Gesser

worker war für Mat-Shaner (agi eta rathig tor Tag. wherea sits hade maine erste Enteberage ge schoffte Denues feierte et die grandiosen Erfölg – mit einem me Teffer Hisbein, einer Flandu over and einer These Kaffon Geder treiben in der Kanthe de Obvious Arithmanipus Obvio Nechar

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fage zu etreichen Der Einriss der Quadripepeiethte tion' Generated Sold

an Index Knie bediebt some Kar in Heidelberg eigentlich die Unwätte Hare, die er mit staar weiteren Mindallnach oben. Steiner nicht Rechrange la bet den Otympselsen Spielen 2000 in Lorsdon krimen wolfte. Naus jat summer 6.50 Euro, Keine neetke Run de terre Buffer, kein Nachschlag, bein mete soal idee, ob er en überbaugt Rechtinets Logiech, dass er inanetschere much Landian schufft. Sr sether gehr enischig alignmonntons hat. Nur noch 100 Kilograden urlegt er. Als Statum trotzig davon san, wanngleich dersett Hoffmangen waf Mediaflenplæter de accit to Poking Chropiologer words, batte er ein Wettbaropigewicht wes playment and. Day werd Statuter and ngt. «Die Givergenehen Spiele werden betet diereligenagen er Doch die aktuellen zas Kilo wazen

In 1st etc sportliches Draves, Sort-mer wähnte sich in Besthere, als er bei setnem gridzen fyfulg det frahe-

and has streen Training swettkarry fin Procedersight anti 55 September verfaniste Art ell September werde or opertert Vier Wathen laufen an Erlaken wat behilder, doch mafe in Tagen walf litteer die Gehhilfes in die Echo Seli dem quilt er sich täglich fünf his sechs Disorden diurch on aufwendiges Neba Traking Servers Transer Ford Mars tek hat er sestenen, ihn täglich anna-nates- «Une fullt mär jetat nächt.» Fix die sen lovering ohne destuche

Medalile zu Ereis gegengene WM in Paris hatte er els Gold Eardhlat gegel ton. An Training hatte er fürdnad to Feige the Köngrannen gerineen and detenal in Hilps zer Köngranum ge-stollen, «Las hefte ich vorber nach the precisably - AD des well oblicher weise haurs jersaild, deux Gewalts

fashen flinkit mar bel Olympickan Apparlent with Intelligence Interpretate.

Und gentau slav int therees Probisen. Er ist ihvreda og jølste alt, sett Peking hitch stri Star. Aber eiver, der which wieder seine Klasse teigen will used mount. Due gets must make in London, Dariett sagt er zu anbann nerinterest Conselants Versiathers, slids habe kenze Wold, - Denn die nichsten Overgrathen Spiele and in \$30 sind the west many new our all analistiches Del suropellan, Pérsiah selbat, für selthe Sponsores, the day Kulsalt active Pepularitie.

Unwarpreem lat dag base was dere Obyragiacium Spinleri anchi in Peking Has Stated and dette Regorgedant (197 sheet Foto accord 2007 but stated with information of all persite because statues the

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Impeterben ist in nam meilter Mal verbeirstet. Mit seine Bathua, der TV-inarnalla its lige Steiner, and gertrinsation. Solth Fellx Go Mons tal late er in Huldelberg itan Stetuer beitt der

Poking 2000: Stellar ut

mach die Ostrinske was dem Kellen Denn das Schleppen von Jehn Glo-Katen ist Stetzer soch zu riskant. Das Laben der Furstlie ist garst die mit Perrpektiven mech London reist. inter sieht es so aus, als körne er im

ch surgestables, date Dether Buch lanuar winder Gewichte stere eren.

Qualen auf dem 120 000-Euro-Stuhi

riere such der Karriere zu denken «Dansit winde ich reich derstet our ablerdors», sagt Steiner. Er will mits all all sets spectators Genetical horomorriseses, manut abor such sizdata ich wultikh nicht weiß, wie ich mark day Karrison inachery adle. Er ist lower and elegenetic has aber wegen seiner Kreunstration and das Ge wishtheters and eines Hauptached

(bach/das Das let sits Nucleul, Allor Steine hat schott vicle ilberwunden, um av an de Spitze zu schaften. Allen Sebarter Bir Scheht, Siner Ist Lots

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data das Ziel. Do ottle Kniebeige and dens Weg dorthin hist or

The Isomed2000 has a very wide range of anthropometric sizes of the test persons. In sitting and also lying position. *From hugest Basketball players down to*



down to jung children (e.g. 7 1/2 Year old Julian 1,25 m)

