



New opportunities

At DAVID we believe that every patient has the right to the best possible treatment. The physiotherapist or physician guides the patient in his or her rehabilitation process. DAVID creates high quality medically certified and well-designed devices for the treatment of musculoskeletal problems.

Exercise therapy

There is strong, scientific evidence that Exercise Therapy is the best approach for treating a variety of musculoskeletal problems.



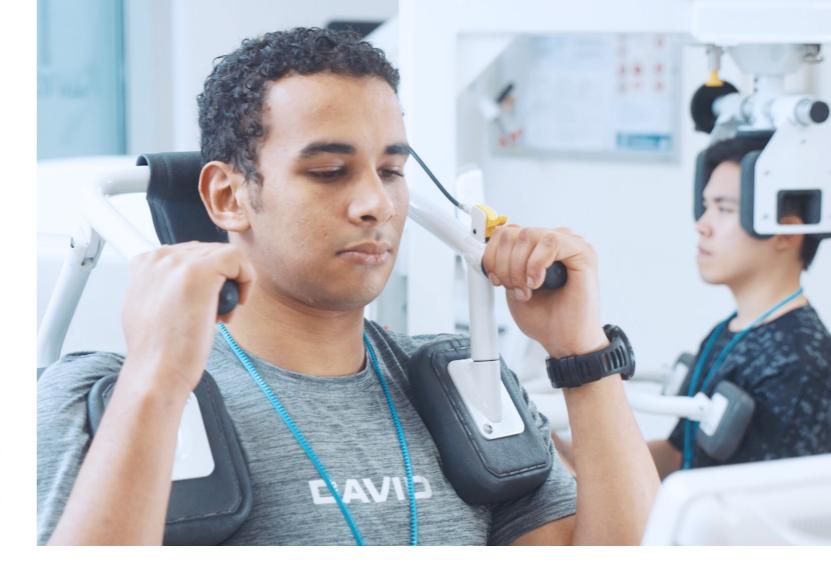
Challenges in physiotherapy

The influence of global aging, growing age expectation and lifestyle related diseases such as obesity, diabetes, cardiovascular diseases and problems with posture and musculoskeletal system, create a great demand for physiotherapeutic care in the near future. The biggest challenge for physiotherapy is that due to an increasing patient population and higher healthcare costs, efficiency must be achieved to be able to manage the patient numbers. There is a shortage of physiotherapists in the USA, and several countries within Europe and Asia. The expectation is that this trend will continue to increase in the coming years. The only solution to meet the demand and to keep healthcare costs under control is the use of timesaving technological innovations.

COVID-19 Statement

Over the past year, our solution has proven to be an excellent alternative for safe training at a social distance from each other.

Together with our reference centers, a protocol for COVID has been drawn up to prevent infections and to continue patient care.



Wide range of applications

The DAVID Exercise Therapy Solution has a variety of applications from rehabilitation, injury prevention, senior training and company prevention without compromising efficacy and safety. Innovative technology with automated adjustments and simple fixations make devices so user-friendly that in many cases the EVE software acts as a virtual assistant after a few initial guided visits.

Solutions for healthcare

DAVID Exercise Therapy Solution provides a turn-key platform for hospitals to modernize their physiotherapy departments. For orthopedic centers, it creates new business opportunities in the fast-growing non-surgical market. Physical therapy centers can upgrade their services and image and develop new revenue streams from membership fees. Company healthcare providers can reduce sick leave days effectively with as little as once-a-week programs and outcome data is important for healthcare insurers in order to reimburse care.

Movement as medicine

Movement can be very effective medicine in the treatment of musculoskeletal problems but like with any medicine too much can be harmful while too little has no effect.

The right dosage

The main component in successful progress is the ability to quantify and control all variables in therapeutic exercises. This is possible if the devices are correctly designed to provide smooth and easy-to-handle loading over the full range of movement. The movement and speed are accurately controlled by the responsive graphical feedback of the EVE Terminals which ensures that individually prescribed, safe range is followed.

High productivity

With all the sophistication in the devices and software, DAVID devices are remarkably easy to use. Registering to each device is done with an RFID card. Seats and other support elements are automatically adjusted and the program is retrieved from the cloud. After a few instructed sessions, patients master quickly the use of the system freeing human resources for more critical tasks. One physiotherapist can control 3-6 patients simultaneously without any reduction in the quality of care. Also, self-care is possible and proven both medically and economically very effective.

Optimized biomechanics

The DAVID Solution includes joint specific devices with optimized biomechanical properties for spine, hip & knee and shoulder joints. Using correct joint and axis alignment, scientifically proven loading curves and target area isolation enabled by effective fixations, these devices are remarkably gentle to the joints yet provide the highest possible neuromuscular training effect. All training parameters are quantified and finetuned for each individual.

Advanced training technology. Cloud-based software for guidance. Control and data gathering.

Reference centers all over the world



The Spine center at the GZA Hospital Sint-Augustinus in Antwerp, Belgium has one of the largest back centers in the Benelux region with more than 120 patients a day. With such high patient volumes, technology plays an important role in ensuring rehabilitation quality and proper understanding of what each patient needs. David Spine

Kurt Wouters

Clinic Manager GZA Hospital, Belgium

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Having been a neurosurgeon for over thirty years, I have always maintained the desire to explore conservative non-operative options for my patients. Over the past few years we have become acquainted with the DAVID Spine Concept. I will suffice it to say that we have been so impressed with the DAVID Solution we are on our third set of DAVID Spine equipment and have now integrated DAVID's hip and shoulder therapy as well.



technology is reimbursed in Belgium.

Northwest Arkansas Neurosurgery Clinic, P.A.USA



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We started using the DAVID equipment at our first rehab center in 2006. We were sure that we have chosen the best tools that a therapist can have for measurements and treatments, but the success is greater than we have ever expected! We can set clear goals, provide comfortable treatments and long term solutions for our clients. No matter if they are athletes or never done any sport, students or seniors, they all claim that their therapy was never so effective and safe as with the DAVID system.

Edit Várhelyi, Ceo

David Gerincklinika, Budapest, Hungary

Back- related sick days at Mercedes-Benz factory dropped 75% by training on the DAVID Spine Devices.

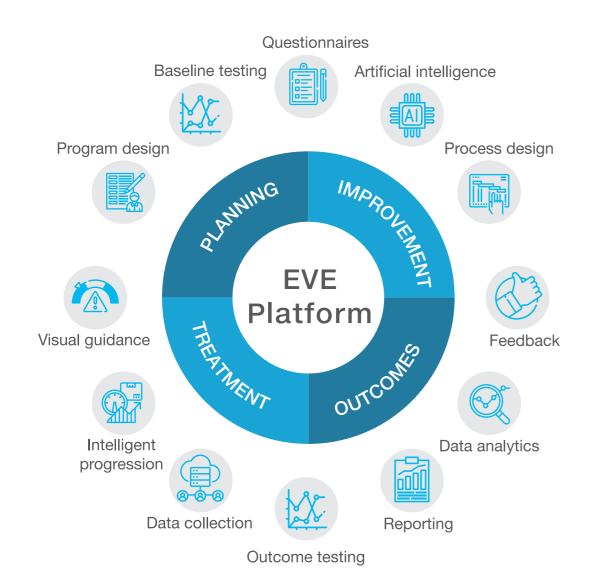
EVE is your virtual assistant

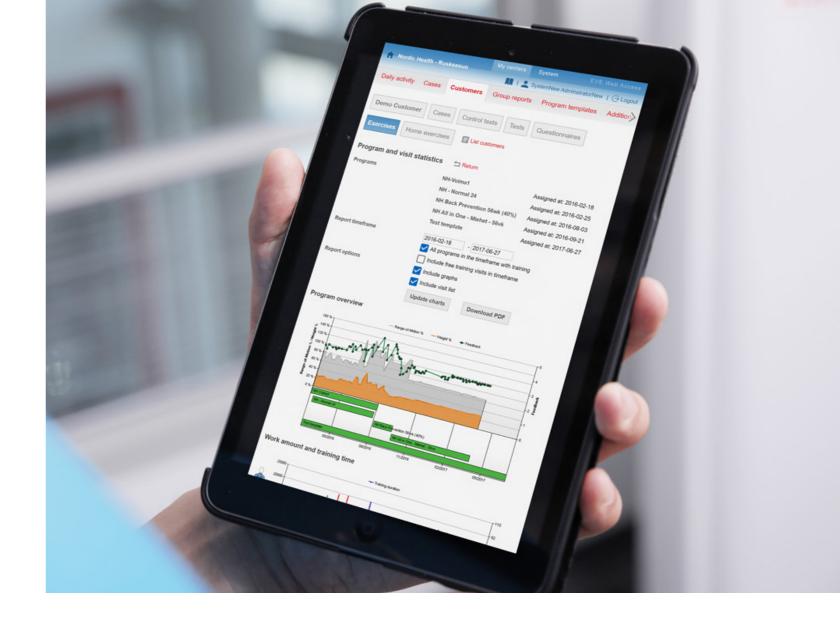
The EVE Software (eValuated Exercise) manages the whole treatment process – helps stratify patients, automates treatment program creation, guides through individual exercises and collects all the data for reporting. It helps physiotherapists in making the right treatment choices and motivates patients in their recovery journey. It also acts as a management tool in reporting the quantity and quality of operations of the therapist and patients, all online and in real-time. EVE is available in 15 languages.

Clinical outcome measurements

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In the near future there is an increasing need for value driven care. With the EVE Platform it is easy to export all patient reported outcome measurements and patient reported evaluated measurements in one central digital place.





Measuring strength and mobility

With the DAVID devices and the EVE software, we measure the strength and mobility of the muscles around the spine, knee, hip and shoulders.

These values are compared with norm values and displayed graphically in a clear report. The measurements help in making a diagnosis and the data is used to compile a rehabilitation program.





Fast





Unique

Cloud-based



Take your patient experience to the next level

Treatments today are no longer as dependent on the diagnosis and treatment plan of the physiotherapist or the physician. Rather, the critical health care consumer is increasingly involved in his/her own rehabilitation process. Patients enter the consultation room with their own diagnosis and treatment preferences. How does this affect the physician's role? The role changes from the traditional physician -patient relationship to a more coaching role for the physician. In this sense, the physician is able to guide the patient in his/her recovery process.

Patient friendly solution

EVE is a patient-friendly solution because of the bio-feedback system and the extensive reporting for insight in the patient own progress. This modern way of providing care contributes to increasing authenticity and motivates the patient to move on.

On the patient level, Eve allows for:



Visual guidance



Quality feedback



Ability to follow own progression

For therapists, EVE helps to:



Follow treatment quality



Change exercise parameters automatically



Decrease repetitive work and leave more time for non-routine work



Chart and report on patient's treatment progress

Therapist friendly solution

Providing care has never been so much fun because of the interaction between EVE (the virtual assistant) and the therapist who uses objective data to make successful choices and help patients.

The administration burden is reduced by smart digital workflows, allowing more time to treat patients. A multiplier effect will be immediately visible.

All treatment data is instantly available for reporting with a few clicks – anywhere, anytime.



EVE

All treatment devices have a colour touch screen monitor where patients can log-in with an RFID card and see the correct training settings. It adjusts most of the settings of the device automatically with actuators based on preferences stored by the therapists. During the training it shows the safe movement range which is derived from the patient's own pain free mobility measurement values. The terminal also guides the correct training speed and constantly monitors the coordination of training. Patients get immediate feedback on how well they were able to follow the designed exercise based on range of motion, work amount, coordination and speed.

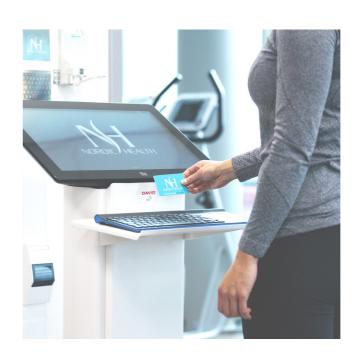
Terminals



David functional exercise solution

Exercise-Kiosk

The DAVID solution is not limited to only device exercises. Any exercise or treatment can be added to patients' training programs with pictures, videos and written instructions. The Exercise-Kiosk has a large 42-inch touch-screen and can be operated with Kinect tracked hand-gestures from afar. Patients can easily mark what exercises they have performed and if they had issues with performing those exercises. This additional exercise functionality is also available in the regular Info-Kiosk.



EVE Info-Kiosk

Customers use the Info-Kiosk to log in to their training sessions using their RFID identifier. It shows possible messages from the therapists and asks for pain information and possible other questionnaires that have been pre-programmed. Customers can also view their current/past/future training programs. Therapists can access the full functionality of the Web Access software suite with a separate login.

More than 250 functional exercises in the EVE library

Discover the world of David

Thousands of therapists guide more than 300,000 patients a year on the DAVID devices. In order to guarantee the quality of the treatment and support clinic personnel, we have founded our DAVID Academy.

This educational platform helps therapists to properly guide patients. Therapists receive a bronze, silver or gold certificate at the end of a course.

Knowledge Base

The DAVID knowledge base is a digital environment where all manuals, instruction videos and protocols are stored. This environment is accessible to all DAVID users.

E-Learning

The e-learning platform contains digital courses on the use of the DAVID spine, hip and knee and shoulder devices, EVE software and useful courses about exercise therapy and pain management.



Knowledge Base

A perfect way to download handbooks and watch instructional videos



E-learning platform

Fast education for every David installation or new employee



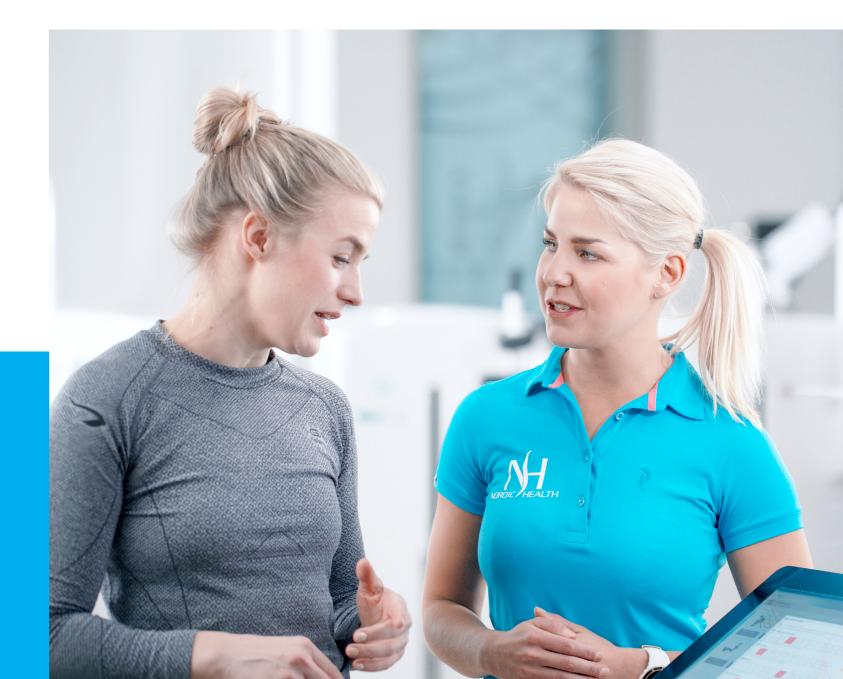
Practical Education

Easy way to learn, ask for feedback and share knowledge for improvement

Practical Education

During the practical lessons one of our educators comes to the clinic to train or update therapists and clinic managers.

These practical classes are always in combination with e-learning lessons and can also take place in our own demo center in Helsinki, Finland.



Spine devices

G110

Lumbar/Thoracic Extension



Mobilizes the lumbar/thoracic spine in the sagittal plane activating the extensors muscles. Allows people with even severe and prolonged back pain and lack of coordination and strength to start mobilization and strengthening exercises with complete safety and minimal pain.

- Automatic foot plate and seat adjustments (electronic version)
- Range of Motion adjustment to accommodate various users
- Unique hip fixation eliminates the activation of the strong hip extensors helping targeting lumbar and thoracic area
- Segmental vertebrae level movement activates critical interspinales and rotatores muscles
- EVE integration with strength, dynamic fatigue and mobility tests
- Target muscles: Spinalis thoracis, Iliocostalis thoracis, Longissimus thoracis, iliocostalis lumborum, Interspinalis lumborum, Multifidus, Semispinalis thoracis
- Measurements (W/L/H): 89/138/139 cm, 35/54/55 in
- Weight: 338kg, 744 lbs
- Weight stack: 2.5/100kg, 5.5/220 lbs







Mobilizes the lumbar/thoracic spine in the transversal plane activating the rotation muscles. Effective upper and lower body fixations ensure isolated rotation movement.

- Entering the device is quick and easy
- Automatic shoulder fixation height adjustment
- Lower body is rotated while the upper body remains fixed
- Starting position adjustment in 10° intervals
- Precise resistance curve provides smooth, full range movement
- Movement is carried out in two directions
- EVE integration with strength and mobility tests
- Target muscles: Obliquus externus, Obliquus internus, Rotatores breves, Rotatores longi
- Measurements (W/L/H): 143/140/150 cm, 56/55/59 in
- Weight: 338 kg, 744 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs

G130

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Lumbar/Thoracic Flexion



Mobilizes the lumbar/thoracic spine in the sagittal plane activating the flexor muscles.

- Automatic foot plate and seat adjustments (electronic version)
- Range of Motion adjustment to accommodate various users
- Unique hip fixation eliminates the activation of the strong hip flexors helping targeting abdominal area
- Highly mobilizing segmental vertebrae level movement
- EVE integration with strength and mobility tests
- Target muscles: Rectus abdominus
- Measurements (W/L/H): 89/138/142 cm, 35/54/56 in
- Weight: 345 kg. 759 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs











G140

Cervical Extension/Lateral Flexion



Mobilizes extension and lateral flexion of the cervical spine activating extensor and lateral flexor muscles.

- Automatic seat adjustment (electronic version)
- Rotating seat and terminal for easy transition between exercises
- Ergonomically contoured seat for natural posture
- EVE integration with strength and mobility tests
- Target muscles: Superior trapezius, Splenius capitis, Splenius cervicis, Semispinalis capitis, Longissimus capitis, Longissimus cervicis, Interspinales cervicis, Semispinalis cervicis, Sternocleidomastoid, Scalene anterior, Scalene middle, Scalene posterior, Splenius capitis. Splenius cervicis
- Measurements (W/L/H): 108/115/190 cm, 43/45/75 in
- Weight: 196 kg, 431 lbs
- Weight stack: 1/25 kg, 2.2/55 lbs



Lumbar/Thoracic Lateral Flexion



Mobilizes lumbar/thoracic spine in frontal plane activating lateral flexor

- Automatic seat adjustment (electronic version)
- Hip fixation mechanism ensures isolated movement
- Movement is carried out in two directions
- Starting position adjustment in 10° intervals
- EVE integration with strength and mobility tests
- Target muscles: Iliocostalis thoracis, Iliocostalis lumborum, Internal oblique, External oblique, Longissimus thoracis, Quadratus lumborum, Intertransversarii mediales lumborum, Intertransversarii laterales lumborum, Spinalis thoracis
- Measurements (W/L/H): 115/114/139 cm, 45/45/55 in
- Weight: 305 kg, 671 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs

G160

Cervical Rotation



Mobilizes the cervical spine in transversal plane activating typically neglected rotating muscles of the head. Pure, isolated rotation, similar to movements in real life.

- Automatic seat adjustment (electronic version)
- Ergonomically contoured seat for natural posture
- Movement is carried out in two directions
- Easy entry and simple positioning
- Starting position can be at 10° intervals
- EVE integration with strength and mobility tests
- Target muscles: Sternocleidomastoid, Splenius capitis, Splenius cervicis. Rectus capitis posterior major. Obliquus capitis inferior. Scalene anterior, Scalene middle, Scalene posterior, Multifidus, Semispinalis cervicis
- Measurements (W/L/H): 110/100/179 cm, 43/39/70 lbs
- Weight: 230 kg, 506 lbs
- Weight stack: 1/25kg, 2.2/55 lbs

Hip & Knee devices

G200

Knee Extension

A versatile device for the knee extension. Unique resistance curve provides smooth and pleasant training experience even for painful knee. Highly effective and safe.

- Automatic back support adjustment (electronic version)
- Self-adjusting ankle cushions
- Range of motion adjustment to accommodate various users
- Easy entry / exit
- Training with one or two legs
- Suitable for both rehabilitation and sports training
- Scientifically validated resistance curve
- EVE integration with strength and mobility tests
- Target muscles: Vastus medialis, Vastus lateralis, Vastus intermedius. Rectus femoris
- Measurements (W/L/H): 117/134/139 cm, 46/53/55 in
- Weight: 350 kg. 770 lbs
- Weight stack: 2.5/50 kg + 5/100 kg = 150 kg, 330 lbs

G210/G220

Multi-Function Leg Press / Leg Press



Multifunction leg press for variety of use ranging from rehabilitation to sports training. Excellent for geriatric training.

- G210/G220: Leg Press, G210: Hack Squat and Calf Exercises
- Back support angle adjustable from 10° 70° (G210 only)
- Automatic footplate adjustment (G210 electronic version)
- Footplate with three zones for different foot positions
- Additional "pre-step" for easy entry
- EVE integration with strength and mobility tests
- Target muscles: Rectus femoris, Vastus medialis, Vastus intermedius, Vastus lateralis, Gluteus maximus, Biceps femoris - Long head, Semimembranosus, Semitendinosus, Gastrocnemius, Soleus
- Measurements (W/L/H): 117/134/139 cm, 46/53/55 in
- Weight: 430 kg, 946 lbs
- Weight stack: 5/200 kg, 11/440 lbs

G260

Hip Extension



Unique hip extension exercise that can be targeted purely to gluteus maximus or more comprehensively to all hip extensors. The pure isolation is accomplished by preventing the anterior tilt of the pelvis and providing a slight hip abduction during the movement.

- The exercise design prevents anterior pelvic tilt
- 5 degrees transversal rotation of the pelvis for improved gluteus maximus activation
- Carefully designed resistance curve for maximal control and activation of target muscles
- Optimal positioning with minimal adjustments
- Self-adjusting movement arm
- Automatic foot plate adjustment
- EVE integration with strength and mobility
- Target muscles: Gluteus maximus, Biceps femoris (long head), semitendinosus, semimembranosus, Adductor magnus
- Measurements (W/L/H): 127/120/139 cm, 50/47/55 in
- Weight: 300 kg, 660 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs



















Safe and effective exercise for the knee joint targeting the flexor muscles. Performed in a comfortable seated position. Range of loading accommodates early rehabilitation as well as strength training

- Automatic back support adjustment (electronic version)
- Self adjusting ankle cushions
- Range of motion adjustment (RMA) to accommodate various users
- Easy entry / exit
- Seat belt for additional stability during exercise
- Training with one or two legs
- Suitable for both rehabilitation and sports training
- Scientifically validated resistance curve
- EVE integration with strength and mobility tests
- Target muscles: Gluteus Maximus, Biceps Femoris, Semimembranosus, Semitendinosus
- Measurements (W/L/H): 117/134/139 cm, 46/53/55 in
- Weight: 384 kg, 845 lbs
- Weight stack: 2.5/50 kg + 5/100 kg = 150kg, 330 lbs

G310

Hip Abduction



Effective and safe exercise for the hip joints targeting hip abductors

- Sagittal hip angle 120° designed for improved muscle activation
- · Self adjusting movement arm length
- Easy entry / range adjustment from the seat
- Seat belt for additional stability during exercise
- Optimal resistance curve
- EVE integration with strength and mobility tests
- Target muscles: Gluteus medius, Gluteus minimus, Tensor fascia
- Measurements (W/L/H): 133/138/139 cm, 52/54/55 in
- Weight: 320 kg, 704 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs

G320

Hip Adduction



Effective and safe exercise for the hip joints targeting hip adductors

- Sagittal hip angle 120° designed for improved muscle activation
- Self adjusting movement arm length
- Easy entry / range adjustment from the seat
- Seat belt for additional stability during exercise
- Optimal resistance curve
- EVE integration with strength and mobility tests
- Target muscles: Gluteus Medius, Gluteus Minimus, Adductor Iongus, Adductor brevis, Pectineus, Gracilis
- Measurements (W/L/H): 133/138/139 cm, 52/54/55 in
- Weight: 320 kg, 704 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs

Shoulder devices

David Shoulder Solution is a comprehensive rehabilitation and strengthening system for the shoulder. It consists of exercises that focus on stabilizing the scapulothoracic and scapulohumeral joints while promoting a proper scapulohumeral rhythm. Priority is placed on shoulder exercises that inhibit upper trapezius activation, also in specific rotator cuff exercises. Biomechanically optimal joint angles make exercises safe, effective and highly targeted.



Rotator cuff group

- 1. Supraspinatus
- 2. Subscapularis
- 3. Infraspinatus
- 4. Teres minor

G420



Unique multijoint exercise for upper body.

Optimal joint angles

Lateral Pulldown

- From wide to narrow movement arm trajectory
- Free handles
- Scapular plane movement
- Automatic seat height adjustment
- EVE integration with strength and mobility
- Target muscles: Latissimus dorsi, Trapezius, Rhomboids, Deltoid posterior
- Measurements (W/L/H): 116/143/159cm, 46/56/63 in
- Weight: 350 kg, 770 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs

G510

Scapular Abduction / Chest Press*



Unique multifunction device that combines isolative scapular protraction and multijoint chest press exercises.

- Optimal joint angles for multijoint exercise
- Isolated serratus anterior exercise
- Carefully designed elbow fix prevents unwanted activation
- Fully automatic seat adjustment
- EVE integration with strength and mobility tests
- Easy to use, minimum supervision required
- Target muscles: (Scapular abduction) Serratus anterior, Pecotralis minor (Chest Press) Pectoralis major, Deltoid anterior, Triceps brachii, Serratus anterior
- Measurements (W/L/H): 142/143/159 cm, 56/56/63 in
- Weight: 350 kg, 770 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs







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Diagonal Shoulder Abduction*



Unique tilted movement arm axes guide the movement activating scapula stabilizing muscles. This typically challenging movement for painful shoulders is easy and painfree to perform.

- Carefully designed arm pads support arms and prevent postural activation of the trapezius muscles
- Handle-free design enables external rotation of the shoulder for higher supraspinatus muscle activation
- Automatic seat adjustment
- Easy to use, minimum supervision required
- EVE integration with strength and mobility tests
- Target muscles: Trapetzius middle, Trapezius inferior, Rhomboid major, Rhomboid minor, Deltoid posterior head, Supraspinatus
- Measurements (W/L/H): 116/143/159 cm, 46/56/63 in
- Weight: 350 kg, 770 lbs
- Weight stack: 2.5/100 kg, 5.5/220 lbs



Glenohumeral Internal Rotation*



Pure isolated internal rotation exercise for the shoulder. Optimized joint angles (60° abduction and scapular plane) enable effective treatment of a painful joint.

- Automated seat adjustment and self-adjusting movement arms
- Maximized subscapularis activation effectively limits strong pectoralis major and latissimus dorsi
- Scapular fixation blocks unwanted movements of the scapula
- Controlled movement and optimal resistance curve provide safety and effectiveness
- Suitable for vast variety of people, from elderly people to athletes
- Training with one or two arms
- Abduction angle can be lowered for early stage rehabilitation
- Easy to use, minimum supervision required
- EVE integration with strength and mobility tests
- Target muscles: Subscapularis
- Measurements (W/L/H): 142/143/159 cm, 56/56/63 in
- Weight: 320 kg, 704 lbs
- Weight stack: 1/20 kg + 2.5/50 kg = 70 kg, 154 lbs



Glenohumeral External Rotation*



Pure isolated external rotation exercise for the shoulder. Optimized joint angles (scapular plane) enable effective treatment of a painful joint.

- Automated seat adjustment and self-adjusting movement arms
- Scapular fixation blocks unwanted movements of the scapula
- Controlled movement and optimal resistance curve provide safety and effectiveness
- Suitable for vast variety of people, from elderly people to athletes
- Training with one or two arms
- Abduction angle can be lowered for early stage rehabilitation
- Easy to use, minimum supervision required
- EVE integration with strength and mobility tests
- Target muscles: Infraspinatus, Teres minor
- Measurements (W/L/H): 142/143/159 cm, 56/56/63 in
- Weight: 320 kg, 704 lbs
- Weight stack: 1/20 kg + 2.5/50 kg = 70 kg, 154 lbs



Cardio devices

The DAVID cardio equipment is equipped with a display that connects to the EVE software. This makes it possible to perform (maximum and submaximal) tests and to compose various interval training sessions based on the heart rate.

Treadmill



- Quick start
- Watt
- Watt sensitive
- Pulse
- Isokinetic Therapy
- Interval
- K-Cal
- Hill
- Random
- Measurements (W/L/H): 172/74/115 cm, 68/29/45 in
- Weight: 190 kg, 419 lbs



Cycle-Up



- Quick start
- Watt
- Watt sensitive
- Pulse
- Isokinetic Therapy
- Interval
- K-Cal
- Hill
- Random Distance
- Measurements (W/L/H): 130/65/146 cm, 51/26/58 in
- Weight: 74 kg, 163 lbs





Crosstrainer



- Quick start
- Watt
- Watt sensitive
- Pulse
- Isokinetic
- Therapy Interval
- K-Cal
- Hill
- Random
- Distance
- Measurements (W/L/H): 198/79/145 cm, 78/31/57 in
- Weight: 170 kg, 375 lbs



Cycle-Body



- Pulse Isokinetic
- Therapy
- Interval
- K-Cal
- Hill
- Random
- Measurements (W/L/H): 122/80/174 cm, 48/32/69 in
- Weight: 108 kg, 238 lbs



Cycle-Rec



- Quick start
- Watt
- Watt sensitive
- Pulse
- Isokinetic Therapy
- Interval
- K-Cal
- Hill
- Random
- Measurements (W/L/H): 159/65/137 cm, 63/26/54 in
- Weight: 82 kg, 181 lbs





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