# IOTUS

MOTUS CARDIO PRODUCT

# CATALOG

MOTUS is a professional fitness company that devotes itself to R&D and spares no efforts to make the best product that will provide a more enjoyable and effective exercise experiences. We are pleased to introduce the premium products of MOTUS

http://www.motus.co.kr























Excellent GOOD DESIGN
Service Quality

DESIGN Certificate of Superior Technology Company

ETLCADR Certification



Android based smart program, high efficiency motor adopted/ Scientifically analyzed exercise program / Ergonomic design/ Implemented low noise, low vibration / speed responsive LED BAR(optional)



M990T series

Android based smart program, high efficiency motor adopted/ Scientifically analyzed exercise program / Ergonomic design/ Implemented low noise, low vibration / speed responsive LED BAR(optional)



M995T series

Android based smart program, high efficiency motor adopted/ Scientifically analyzed exercise program / Ergonomic design/ Implemented low noise, low vibration



Wide external TV, high performance motor adopted/ Scientifically analyzed exercise program / Ergonomic design/ Implemented low noise, low vibration



#### MB660BU series

Easy walk-through design for users to ride on and off the bike / Mounted 10.4 inch LCD TV on the body / Built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading.



#### MB660BR series

Easy walk-through design for users to ride on and off the bike / 10.4 inch LCD TV is mounted on the body / Built-in scientific exercise program, such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading.



#### M770E series

Ergonomically designed for users to ride and exercise safely / Built-in scientific exercise program, such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading is available / Self-generating method.

# T100 series

## Superior driving performance (HITACHI Motor)

- High performance AC motor and precise motor control technology
- Implemented low noise, low vibration and high torque in wide speed range from low to high speed
- Energy saving by adapting high efficiency motor

# Can utilize various contents by applying Android

- Can watch variety of contents such as TV, Internet, YouTube etc.
- Supports headphone function, supports virtual athletic ability
- Built-in scientific exercise program









# Users safety and convenience has been considered

- USB wired charging port applied / Wireless charging
- Implemented low-bed style design / multiple impact mitigation system
- User-centered control panel, multipurpose storage space
- Convenient interactive operation method / Oilless deck







Application of Android based smart program, energy-saving by the adoption of high efficiency motor, implementation of superior driving performance, use of built-in exercise program developed on the basis of scientific analysis, ergonomic design considered for the exerciser, implementation of low-noise and low-vibration through the high performance motor and precision motor control technology.



#### **Smart function**

- Dual display (LG Product); It can be used with existing LED method in case of operational trouble of Android program due to LCD damage (T100A).
- Uncomplicated user-friendly UI configuration.
- Various built-in exercise programs (strengthening cardiopulmonary function, body fat reduction, physical strength improvement etc.)
- Built-in heart rate-linked exercise programs that automatically adjust inclination of running-machine.



#### Domestic unique low-bed style design

- Maintain psychological stability of users through low-bed style design



## High performance AC motor (Hitachi), dedicated inverter is used.

- By using HITACHI high performance motor, stable exercise is available even in wide speed range from low to high speed.
- Precision motor control and low-noise, low-vibration, high torque are realized by using dedicated inverter optimized for running-machine.



Android based smart program, adoption of high efficiency motor / scientifically analyzed exercise program / ergonomic design / implementation of low-noise and low-vibration

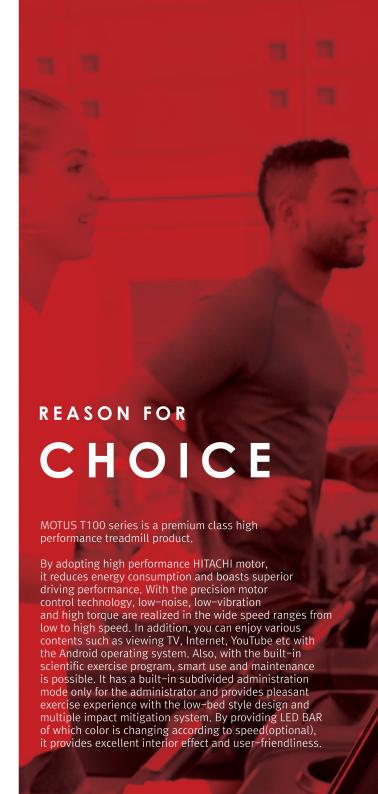


18.5" digital built-in T V, adoption of high efficiency motor / scientifically analyzed exercise program / ergonomic design / implementation of low-noise and low-vibration



Adoption of high efficiency motor / scientifically analyzed exercise program / ergonomic design / implementation of low-noise and low-vibration







T100



T100L



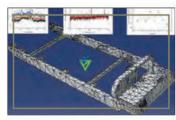
T100A

#### **Display Function**

- Implemented Android based web-program (T100A)
  18.5" digital built-in T V (T100A, T100L)
  Various built-in exercise programs.
  Built-in goal-oriented exercise programs.



Belt drive speed can be checked easily since an LED interlocked to belt drive speed is attached to the footrest (optional).





#### Multiple impact mitigation system

#### **T100 SERIES SPECIFICATION**

Model		T100A	T100L	T100		
Motor	AC 3.0HP Continuous duty					
Speed		0.1~25km/h, 0.1km/h Increment				
Incline		0~20%, 0.5% increment				
Display	Console	Alpah-Numanic FND 16*32 Dot, F				
OS		Android 6.2	-	-		
Exercise Time, Remaining Time, Incline, Distance, Total Calories, Information Burned, Speed, Pace(min/km), H/R						
H/R	Contact	Standard				
System	Wireless	Standard, Chest Strap required : optional				
	Built-In	10				
Workout	H/R	2				
Program	Custom	10				
Goal 3(Distance, Time, Calories)						
Network RS232C						
Accessory Tray 2(For bottle, Mobile, etc)						
Emerger	тсу	Lanyard Pull				
Handle I	Bar	Side(Urethane Foam),Front(Injection Molding	)			
Running	Surface	520 X 1560(mm)				
Power	Standard	Normal 220VAC,50/60Hz				
Source	USA Japan	120VAC/100VAC,50/60Hz				
Manage	r Mode	Workout duration, Maximum speed, Measurement unit, Pause time, Total distance, Total time, Software version, Error log, Language selection(English/Italian/Russian/Japanese),Clear error log, Key test				
Maximu Weight	m User	185kg				
Length /Width/ Height		2,161 X 870 X 1,680mm(L*W*H)				
Weight 215kg						
Built-in speed responsive LED BAR Optional						
Others		Aluminum support ,Nonslip plate and Integra	I ENDCAP			

Optimal frame design through the low-vibration and low-noise simulation. The new material developed by MOTUS with the help of KAIST has excellent impact absorption rate and the multi-designed impact mitigation system ensures comfortable exercise at all times by absorbing naturally the intense impact arising during exercise

# M990T / M995T series

## Superior driving performance (HITACHI Motor)

- High performance AC motor and precise motor control technology
- Implemented low noise, low vibration and high torque in wide speed range from low to high speed
- Energy saving by adapting high efficiency motor

# Can utilize various contents by applying Android

- Can watch variety of contents such as TV, Internet, YouTube etc.
- Supports headphone function, supports virtual athletic ability
- Built-in scientific exercise program









# Users safety and convenience has been considered

- Implemented low-bed style design / multiple impact mitigation system
- User-centered control panel, multipurpose storage space
- Convenient interactive operation method / Oilless deck







Application of Android based smart program, energy–saving by the adoption of high efficiency motor, implementation of superior driving performance, use of built–in exercise program developed on the basis of scientific analysis, ergonomic design considered for the exerciser, implementation of low–noise and low–vibration through the high performance motor and precision motor control technology.



#### **Smart function**

- Dual display (LG Product); It can be used with existing LED method in case of operational trouble of Android program due to LCD damage (M990A.M995A)
- Uncomplicated user-friendly UI configuration.
- Various built-in exercise programs (strengthening cardiopulmonary function, body fat reduction, physical strength improvement etc)
- Built-in heart rate-linked exercise programs that automatically adjust inclination of running-machine



#### Domestic unique low-bed style design

- Maintain psychological stability of users through low-bed style design



## High performance AC motor (Hitachi), dedicated inverter is used.

- By using HITACHI high performance motor, stable exercise is available even in wide speed range from low to high speed.
- Precision motor control and low-noise, low-vibration, high torque are realized by using dedicated inverter optimized for running-machine.



Android based smart program, adoption of high efficiency motor / scientifically analyzed exercise program / ergonomic design / implementation of low-noise and low-vibration



Digital built-in TV, adoption of high efficiency motor/ scientifically analyzed exercise program / ergonomic design / implementation of low-noise and low-vibration



High efficiency motor adopted/ Scientifically analyzed exercise program / Ergonomic design/ Implemented low noise, low vibration.





M990T M995T



M990TL M995TL



M995A

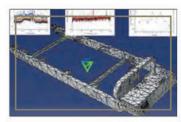
#### **Display Function**

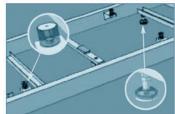
- Implemented Android based web-program (M990A, M995A)
  15" digital built-in TV (M990TL, M995TL)

- Various built-in exercise programsGoal-oriented built-in exercise programs



Belt drive speed can be checked easily since an LED interlocked to belt drive speed is attached to the footrest (optional).





#### Multiple impact mitigation system

Optimal frame design through the low-vibration and low-noise simulation. The new material developed by MOTUS with the help of KAIST has excellent impact absorption rate and the multi-designed impact mitigation system ensures comfortable exercise at all times by absorbing naturally the intense impact arising during exercise

#### M990T SERIES SPECIFICATION

Model		M990A	M990TL	M990T	
Motor		AC 3.0HP Continuous duty			
Speed		0.1~24km/h, 0.1km/h Increment			
Incline	ine 0~20%, 0.5% increment				
Display Console 16*32 Dot, FND, 15"LED 16*32		16*32 Dot, FN			
OS		Android 6.2	-	-	
Touch		Capacitive Touch Screen	-	-	
TV		Digital built-in TV (Android)	Digital built-in TV (LED)	NONE	
Running Surface 520 X 1560(mm)					
Size		2,161 X 870 X 1,580mm(L*W*H)			
Weight		204kg			
Maximu Weight	m User	185kg			
H/R System Contac		Contact System / Wireless System(optional)			
Network	(	RS232C			
Exercise Informa		Time, Remaining Time, Incline, Distance, Total Speed, Pace(min/km), H/R	l Calories Burned,		
	Built-In	10			
Workout	H/R	2			
Program	Custom	10			
	Goal	3(Distance,Time,Calories)			
Emerge	ncy	Lanyard Pull			
Lubricat	ion	Standard waxed deck			
Power Standard		Normal 220V AC,50/60Hz			
Source	USA Japan	120VAC/100V AC,50/60Hz			
Built-in speed responsive LED BAR Optional					
Others Aluminum support ,Nonslip plate and Integral ENDCAP					

#### M995T SERIES SPECIFICATION

Model		M995A M995TL M995			
Motor		AC 3.0HP Continuous duty			
Speed		0.1-21km/h, 0.1km/h Increment			
Incline		0~20%, 0.5% increment			
Display Console 16*32 Dot, FND, 15"LED 16*32 D			16*32 Dot, FND		
OS		Android 6.0	-	-	
Touch		Capacitive Touch Screen	-	_	
TV		Digital built-in TV (Android)	Digital built-in TV (LED)	NONE	
Running	Surface	520 X 1560(mm)			
Size		2,161 X 870 X 1,580mm(L*W*H)			
Weight		204kg			
Maximu Weight	Maximum User Veight 185kg				
H/R Sys	tem	Contact System / Wireless System(optional)			
Network	Network RS232C				
Exercise Informat		Time, Remaining Time, Incline, Distance, Total Calories Burned, Speed, Pace(min/km), H/R			
	Built-In	5			
Workout	H/R	2			
Program	Custom	5			
	Goal	3(Distance,Time,Calories)			
Emerger	тсу	Lanyard Pull			
Lubrication		Standard waxed deck			
Power Standard		Normal 220V AC,50/60Hz			
Source	USA Japan	120VAC/100V AC,50/60Hz			
Built-in speed responsive LED BAR Optional		Optional			
Others Alum		Aluminum support ,Nonslip plate and Integra	l endcap		



# **M90T** series

## Superior driving performance (HITACHI Motor)

- High performance AC motor and precise motor control
- Implemented low noise, low vibration and high torque in wide speed range from low to high speed.
- Anti-skid structure of the belt
- Highly rigid frame structure

#### **LED TV Monitor**

- Watching TV on a big screen







#### Users safety and convenience has been considered

- Implemented low-bed style design / multiple impact mitigation system
- User-centered control panel, multipurpose storage space
- Convenient interactive operation method / Oilless deck







#### INCLINE-Adjustable inclination of running-machine



The maximum incline is 15%. Each time you press the incline control panel, it moves by 0.5%.



M 9 0 T

Implemented excellent driving performance with the high performance AC/DC motor, use of built-in exercise program developed on the basis of scientific analysis, ergonomic design considered for the exerciser, implementation of low-noise and low-vibration through the high performance motor and precision motor control technology (optional LED BAR)



#### **Smart function**

- Pleasant watching TV on large screen
- Easy and convenient touch operation button
- Various built-in exercise programs (strengthening cardiopulmonary function, body fat reduction, physical strength improvement etc)
- Built-in goal-oriented exercise programs
- Built-in heart rate-linked exercise programs that automatically adjust inclination of running-machine.



#### Domestic unique low-bed style design

- Maintain psychological stability of users through low-bed style design

#### High performance AC motor (Hitachi), dedicated Inverter is used.

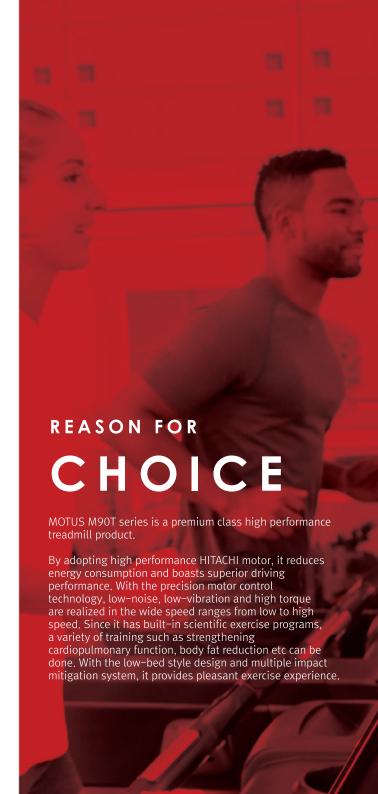
- By using HITACHI high performance motor, stable exercise is available even in wide speed range from low to high speed.



External TV, adoption of high performance motor / scientifically analyzed exercise program / ergonomic design/ implementation of low noise, low vibration



Adoption of high performance motor / scientifically analyzed exercise program / ergonomic design/ implementation of low noise, low vibration







M90T



1901

#### **Display Function**

- External TV (M90i)
- Various built-in exercise programs
- Built-in goal-oriented exercise programs
- Easy and convenient touch operation button

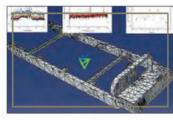


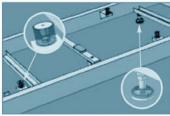
## High Strength Aluminum Footrest / Oilless Deck

- Since the deck is coated with wax, you do not need to inject oil separately (Average service life of the oilless deck is 2 years)



Belt drive speed can be checked easily since an LED interlocked to belt drive speed is attached to the footrest (optional).





#### Multiple impact mitigation system

Optimal frame design through the low-vibration and low-noise simulation. The new material developed by MOTUS with the help of KAIST has excellent impact absorption rate and the multi-designed impact mitigation system ensures comfortable exercise at all times by absorbing naturally the intense impact arising during exercise

#### M90T SERIES SPECIFICATION

Model		M90i M90T		
Motor AC 3.0HP Continuous duty				
Speed 0.1~21km/h, 0.1km/h Increment				
Incline		0~15%, 0.5% increment		
Display	Console	16*32 Dot, FND		
TV		External TV	NONE	
Running	Surface	520 X 1560(mm)		
Size		2,161 X 870 X 1,480mm(L*W*H)		
Weight		190kg		
Maximu Weight	m User	185kg		
H/R Sys	tem	Contact System		
Network	(	RS232C		
Exercise Informa		Time, Remaining Time, Incline, Distance, Total Calories Burned, Speed, Pace(min/km), H/R		
Built-In		10		
Workout	H/R	2		
Program	Custom	10		
	Goal	3(Distance,Time,Calories)		
Emerge	ncy	Lanyard Pull		
Lubricat	ion	Standard waxed deck		
Power	Standard	Normal 220V AC,50/60Hz		
Source	USA Japan	120VAC/100V AC,50/60Hz		
Built-in speed responsive LED BAR Optional				
Others Aluminum support ,Nonslip plate and Integral ENDCAP		l endcap		

# M660BU series



Easy walk-through design for users to ride on and off the bike, ergonomic design and maximization of exercise effect, mounting of 10.4 inch LCD TV on the body, built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise, extensive exercise intensity, 1~25 steps exercise loading.



#### **Smart function**

- Easy and convenient touch operation button
- Built-in scientific exercise programs
- Built-in goal-oriented exercise programs
- Built-in heart rate-linked exercise programs that automatically adjust the intensity of the exercise.
- Mounting of 10.4" LCD TV on the body
- Headphone function support
- Dashboard reading stand and cell phone holder



#### ERGONOMIC DESIGN-WALK THROUGH DESIGN

- Easy for users to ride on and off the bike
- Designed the body of the bike as through-type

# M660BUL





M660BU

10.4" LCD TV

Easy walk-through design for users to ride on and off the bike / mounting of 10.4 inch LCD TV on the body / built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading is available





#### M660BU SERIES SPECIFICATION

Model	Model M660BUL		M660BU	
Power		100~240VAC,50/60Hz	Self–powered,Cordless, Battery charger included	
Battery	charger	None	Yes	
Workou	t Intensity	25 Levels by PWM Control		
Drive Sy	rstem	Poly–V belt / Generator		
Display		8*16 Dot		
TV		10.4" TFT LCD TV panel	-	
Size		1,070 X 610 X 1,500mm(L*W*H)		
Weight 68kg				
Maximum User Weight 150kg				
H/R Sys	tem	Contact System / Wireless System	(optional)	
Network	(	RS232C	-	
	Built-In	10		
Workout	H/R	2		
Program	Custom	5		
	Goal	3(Distance,Time,Calories)		
Exercise Informat	ercise formation Time, Remaining Time, Distance, Total Calories Burned, Speed, H		otal Calories Burned, Speed, H/R	



Beverage bottle holder



Easy and convenient one-touch method for height adjustment of the gas cylinder type saddle



A front wheel that can move to a desired position with a small force

Easy walk-through design for users to ride on and off the bike / built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading / self-generation method.

# M660BR series



#### M660BRL

Easy walk-through design for users to ride on and off the bike, ergonomic design and maximization of exercise effect, mounting of 10.4 inch LCD TV on the body, built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise, extensive exercise intensity, 1~25 steps exercise loading.



#### **Smart function**

- Easy and convenient touch operation button
- Built-in scientific exercise programs
- Built-in goal-oriented exercise programs
- Built-in heart rate-linked exercise programs that automatically adjust the intensity of the exercise.
- Mounting of 10.4" LCD TV on the bodyHeadphone function support
- Dashboard reading stand and cell phone holder



#### ERGONOMIC DESIGN-WALK THROUGH DESIGN

- Easy for users to ride on and off the bike
- Designed the body of the bike as through-type



Easy walk—through design for users to ride on and off the bike / mounting of 10.4 inch LCD TV on the body / built—in scientific exercise program such as heart rate—linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading.



M660BRL 10.4" LCD TV



M660BR



Easy walk-through design for users to ride on and off the bike / built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading / self-generation method



Model

Power

Battery charger

Drive System

Display

TV

Size

Weight

Weight

Maximum User

H/R System

Built-In

Custom

H/R

Goal

Network

Workout Program

Exercise

Information

Workout Intensity

Cell phone holder



3(Distance, Time, Calories)

Foldable armrest and cup holder



A front wheel that can move to a desired position with a small force

#### M660BR SERIES SPECIFICATION

100~240VAC,50/60Hz

25 Levels by PWM Control

Poly-V belt / Generator

10.4" TFT LCD TV panel

1,645 X 570 X 1,310mm(L\*W\*H)

Contact System / Wireless System(optional)

Time, Remaining Time, Distance, Total Calories Burned, Speed, H/R

None

8\*16 Dot

93kg

150kg

RS232C

10

5

M660BRL

# M770E series



Ergonomic design that allows users to safely ride elliptical and maximization of exercise effect, mounting of 10.4 inch LCD TV on the body, built–in scientific exercise program such as heart rate–linked programs that automatically adjust the intensity of exercise, extensive exercise intensity,  $1\sim25$  steps exercise loading.



#### **Smart function**

- Easy and convenient touch operation button
- Built-in scientific exercise programs
- Built-in goal-oriented exercise programs
- Built-in heart rate-linked exercise programs that automatically adjust the intensity of the exercise.
- Mounting of 10.4" LCD TV on the body
- Headphone function support
- Dashboard reading stand and cell phone holder



#### **ERGONOMIC DESIGN**

- Easy for users to ride on and off the elliptical
- Safe & wide footrest and induces effective exercise posture.



Ergonomically designed for users to safely ride and exercise / mounting of 10.4 inch LCD TV on the body / built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise /  $1\sim25$  steps exercise loading.



Ergonomically designed for users to safely ride and exercise / built-in scientific exercise program such as heart rate-linked programs that automatically adjust the intensity of exercise / 1~25 steps exercise loading / self-generation.



**M770EL** 10.4" LCD TV



M770E

#### M770E SERIES SPECIFICATION

Model		M770EL	M770E	
Power		100~240VAC,50/60Hz	Self–powered,Cordless, Battery charger included	
Battery	charger	None	Yes	
Workout	t Intensity	25 Levels by PWM Control		
Drive Sy	rstem	Poly-V belt / Generator		
Display		8*16 Dot		
TV		10.4" TFT LCD TV panel –		
Size		2,100 X 600 X11,700mm(L*W*H)		
Foot pla	te	375 X 170 X 300mm(L*W*H)		
Weight 130kg				
Maximum User Weight 160kg				
H/R Sys	tem	Contact System / Wireless System	(optional)	
Network	(	RS232C	-	
	Built-In	10		
Workout	H/R	2		
Program	Custom	5		
	Goal	3(Distance,Time,Calories)		
Exercise Information Time, Remaining Time, Distance, Total Calories Burned, Speed		otal Calories Burned, Speed, H/R		



Ergonomic handle



Beverage bottle / cell phone holder



A front wheel that can move to a desired position with a small force



#### HISTORY OF MOTUS

1110	TORT OF MOTOS
2018	<ul> <li>Patent determination for running machine to which functional lighting is applied         (No. 10-2017-0082090).</li> <li>Office Building of MOTUS was expanded and moved to new location         (No. 2-65, Geomunyii-Gil, Paju City)</li> </ul>
2017	- Developed Android version Treadmill (T100A, M990A, M995A)  TECHNOLOGY
2016	- K-Mark Re-certified / ISO9001 Re-certified
2014	<ul> <li>Launched a New Treadmill (1100)</li> <li>Launched a New Strength(Hercules &amp; Mithra Series)</li> </ul>
2013	Recertified 'Korea Excellent Service Quality Enterprise'
2012	Launched a New Strength Machine(PWSR Series)
2010	- Moved to new main office & factory - Launched a new product(CST) - Obtained 'Korea Excellent Service Quality Enterprise Certification'  The second of the
2009	- Registered a patent for C30(CST) in Europe & USA
2007	<ul> <li>Venture Enterprise Certification</li> <li>Quality Sporting Goods Certification from</li> <li>KISS(Korea institute of Sport Science)</li> <li>Won a Venture Design Award</li> </ul>
2006	Designated as an excellent products from PPS(Public Procurement Service)
2005	<ul> <li>Good Design Certification from Ministry of Trade, Industry and Energy</li> <li>World 1st Class Product Certification from Ministryof Trade, Industry and Energy</li> <li>Won a grand prize of Korea Sports industry from MCST         <ul> <li>(Ministry of Culture, Sports and Tourism)</li> </ul> </li> </ul>
2004	- Won official commendation from a Korea President.
2003	<ul> <li>Industrial-educational study with KAIST</li> <li>Selected as an excellent products from PPS (Pudlic Procurement Service)</li> </ul>
2002	<ul> <li>Designated as a promising enterprise of WORLDCU related products.</li> <li>Excellent A/S Enterprise Certification (1st certification in the sporting goods industry)</li> </ul>
2001	<ul> <li>Changed a company name from 'DAEHO SPORTS' to 'MOTUS CO., Ltd.</li> <li>Obtained a EM(Excellent Quality) Mark from NIST (National Institute of Standards and Technology)</li> </ul>
2000	- ISO9001 Certification
1998	<ul> <li>Designated as a Venture Enterprise by SMBA         <ul> <li>(Smal and Medium Business Administration)</li> </ul> </li> <li>Designated firstly as an excellent sporting goods manufacturer by MCST         <ul> <li>(Ministry of Culture, Sports and Tourism)</li> </ul> </li> </ul>
1997	- Localization of PWM Motor Controller for treadmill - Manufactured first Korea Treadmill with our own R&D
1995	<ul> <li>Signed ajointed development contract for treadmillwith KISS (Korea Institute of Sport Science)</li> </ul>
1993	Established a company named "DAEHO Sports"

BRAND

**POWER** 

Acquired 28 patents and utility models
 Industry-Academic Research & Development Network
 Acquired structure design technology for low-noise/low-vibration machinery.

- Acquired source technology for aerobic exercise equipment design

> - Number one Market Share and Customer Recognition

- Exported to worldwide markets with our own brand

Certified as an excellent service-quality company in Korea (Domestic No.55)

- Establish A/S network that can service within 24 hours

- Maintains own computer network



- Specifications and standards of this product are subject to change without prior notice for quality improvement.
- Since this publication is printed material, the color shown here may differ from actual product color.

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