

2014/15

GO TOGETHER
DREAM HANDPIECE



HIGH TECHNOLOGY FOR DENTAL HANDPIECE

SURGICAL

Ultrasonic/ Implant Dual Engine

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MAINTENANCE + PARTS

CAUTIONS



SAESHIN has been one of a representative in the field of High-precision Dental Device and now, SAESHIN is dreaming of being global No. 1.

SAESHIN established 1976 and early recognized the importance of medical field. SAESHIN has grown as the main leader in the field of high-precision medical device for 39 years with succeeding of development of Dental Handpiece as the first in Korea. Especially, results on constant developing technology of High-precision-speed BLDC Motor, micro reduction geared and High-precision Spindle field through its own brands such as STRONG and TRAUS, SAESHIN grew into global company which is top of Domestic market share as well as exporting its products to over 120 countries. SAESHIN has established as manufacturing company of High-precision Medical device being recognized for acquiring System certificate of ISO9001, ISO13485 and Product certificate of KFDA, CE, FDA, CFDA.





traus

'TRAUS' which has the meaning of dreams connects customers and companies with the concept "Extend you", "We are spreading with You". 'TRAUS' got the motivation from "Growing Tree". We are emphasizing on "T" which has the meaning of Tree, Try, Technology, Trend, etc. Branches which are divided into 2 ways will be the foundation of creation of Saeshin Precision's brands and have the meaning of the developing spatial role. Blue color means leading company's high technology and reliability with regarding on the health of lives

HISTORY



1976. 11 Company established
1982. 12 Permitted to manufacture medical instruments and dental electric engines
1987. 06 Permitted to manufacture dental electric engines and engine handpieces
1987. 07 Registered trading business
1997. 04 Obtained Q(quality) mark
1997. 07 Moved to the factory enlarged
1998. 05 Admitted quality management of medical instruments by Korean Food & Drug Administration
1998. 08 Obtained CE/ISO9002/EN46002 / ISO13485 Certification
2000. 09 Appointed to the Export Promising Small & Medium Enterprise

2000. 09 Appointed to the Venture Company
2000. 11 Awarded export prize and commendation from the Minister of Commerce, Industry and Energy
2001. 10 Enlarged R&D building
2002. 01 Released brushless motor
2002. 04 Participated in the project of technology innovation by the Small & Medium Business Administration
2002. 07 Appointed as the Export Promising Small & Medium Enterprise (Daegu & Gyeongsangbuk-Do Export Assistance Center)

2002. 11 Appointed to Leading Small & Medium Enterprise by the Mayor of Daegu
2003. 11 Awarded prize of Excellent Small & Medium Enterprise by Mayor of Daegu
2004. 11 Awarded export prize
2005. 04 Developed Strong 1:1 contra angle series
2005. 11 Awarded export prize and commendation from Prime Minister
2006. 11 Developed reduction geared handpiece for implant surgery
2006. 12 Assigned for the company of Innovation business by Small & Medium Business Administration



*We heartily appreciate
Your constant interest and support*

-
2007. 10 Appointed to the Native Company in DAEGU Metropolitan City (over 30 years history and 30 employees)
2007. 12 Obtained certification of Korean Good Manufacturing Practice (KGMP) issued by Korea Food & Drug Administration & Korea Testing Laboratory
2008. 01 Appointed to the Expert Company by the Ministry of Commerce, Industry and Energy
2008. 05 Appointed to the Star Company in DAEGU Metropolitan City
2008. 08 Changed the name to SAESHIN PRECISION CO., LTD. for limited company

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2009. 02 Obtained commendation for Product Development & Technology Innovation by Daegu mayor
2009. 08 Certified as export company by Daegu Chamber of Commerce & Industry
2009. 10 Obtained FDA for Implant Engine.
2009. 12 Awarded Export prize
2010. 06 Appointed to the patent & brand star company by Daegu Chamber of Commerce & Industry
2010. 09 Awarded to the Certified Export Company by Daegu Chamber of Commerce & Industry
2010. 12 Appointed to the world-class company by Small & Medium Business Corporation

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2011. 10 Receive Excellence award of international Public Design Awards
2011. 12 Won the official commendation of Daegu Star Company with Superior Result by Daegu Mayor
2012. 09 Moved to the new factory
2012. 10 Seoul national university MOU conclusion
- 2012.11 Awarded Export prize USD 20million
- 2013.10 Appointed Global excellent company by the Minister of Commerce, Industry and Energy
- 2013.10 Awarded Grand prize of industrial technology for this month.





SURGICAL



Traus SUS10

Ultrasonic + Implant Dual Engine Stable and Powerful Output

This ultrasonic surgical equipment is designed for osteo plastic amputation and including dental implant surgery.



HANDPIECE OPTION



PRODUCT SPECIFICATION

C/B

INPUT	AC100-120V, 220-240V
FUSE	5A / 2A
FREQUENCY	50/60 Hz
OUTPUT	48VA
MAXIMUM PUMP	Max.90 ± 20%ml
DIMENSIONS(MM)	W348 x D276 x H143
WEIGHT	3.6kg

H/P

	CRB26LX	CRB26XX	CRB27LX	CRB27XX
GEAR RATIO	20 : 1	20 : 1	32 : 1	32 : 1
WEIGHT	82g	84g	82g	84g
OPTIC	Optic	Non-Optic	Optic	Non-Optic
TORQUE	55Ncm	55Ncm	65Ncm	65Ncm

H/P: TRAUS PEZ10XX

WORKING FREQUENCY	27 ± 3KHz
ULTRASONIC OUTPUT	22 ± 3VA
WEIGHT	81g



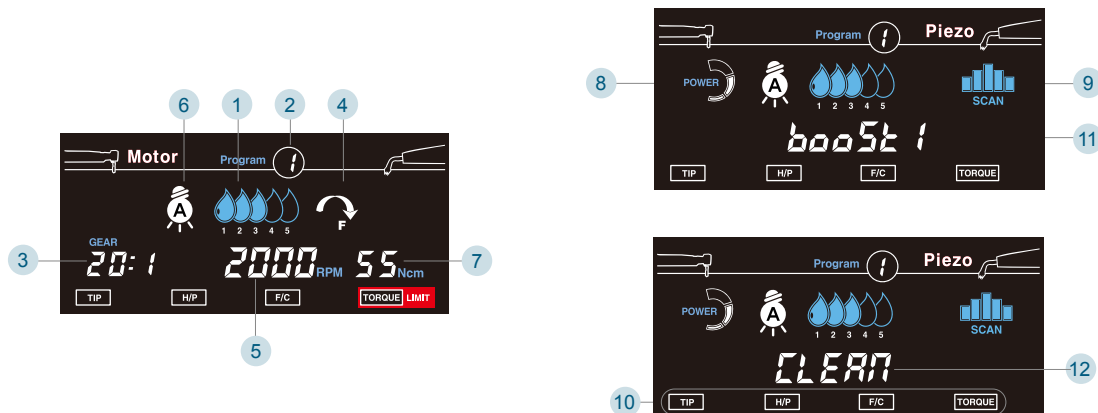
Ultrasonic

- TRAUS XUS10 facilitates the surgeon's work: thanks to innovative ultrasound technology, only bone substance is resected with high precision. The surrounding soft tissue remains uninjured.
- Own piezo technology enables optimized performance with powerful output
- Bone heating is avoided or minimized by injecting saline water at Max. 90ml/min speed.
- TRAUS XUS10 make various operation easy including Crestal approach, Sinus lift Ridge expansion, Bone harvesting, Bone craft, window open, and many others.
- Multifunctional and ergonomic foot switch design
- You can easily operate handpiece and saline water supply with the foot switch.
- Simple and modern design
- Minimized bone heating

Implant

- BLCD motor (Speed Range 0~ 40,000rpm) and Angle (Standard equipment 20:1/ 32:1) provide the optimum torque in surgery.
- 9 Programs memory function
- Automatic overload protection function
If the load on the bur is higher than preset torque, the motor stops automatically and shows Error on the display.
- Actual RPM and Torque display function
- Motor Auto-calibration function

LCD window



1. Irrigation volume display
2. Program number display
3. Gear ratio display
4. Direction display
5. Speed display
6. Optic display (ver. Optic)

7. Torque display
8. Output intensity display
9. Scan display
10. Error display
11. Boost display
12. Clean/Remedy display

**Are you still purchasing and maintaining two expensive equipment apart?
Now it is time to try our TRAUS SUS10
You can operate two treatments together with only one equipment.**

***TRAUS SUS10 gives high performance for its price.
It will be a reliable partner for You.***



TRAUS SIP10

- BLDC motor with high performance designed by Saeshin's own high technology and know-how
- Gear ratio : 1:5, 1:4, 1:1, 16:1, 20:1, 27:1, 32:1, 64:1
- E-type motor : TRAUS MBP10SL(SX) followed "ISO3964" for standard connection(BLDC motor - 0~40,000rpm)
- 9 programs memory function
- Automatic overload protection function
- Indication of actual RPM and torque on operating for proper working condition
- Motor auto-calibration function
- Ergonomic foot controller
- Optic function : (Option)



HANDPIECE OPTION



PRODUCT SPECIFICATION

C/B

INPUT	AC100-120V, 220-240V
FUSE	5A / 2A
FREQUENCY	50/60 Hz
OUTPUT	Max : 120W
MAXIMUM PUMP	Max.90 ± 20%ml
DIMENSIONS(MM)	W233 x D269 x H120
WEIGHT	2.8kg

H/P

	CRB26LX	CRB26XX	CRB27LX	CRB27XX
GEAR RATIO	20 : 1	20 : 1	32 : 1	32 : 1
WEIGHT	82g	84g	82g	84g
OPTIC	Optic	Non-Optic	Optic	Non-Optic
TORQUE	55Ncm	55Ncm	65Ncm	65Ncm

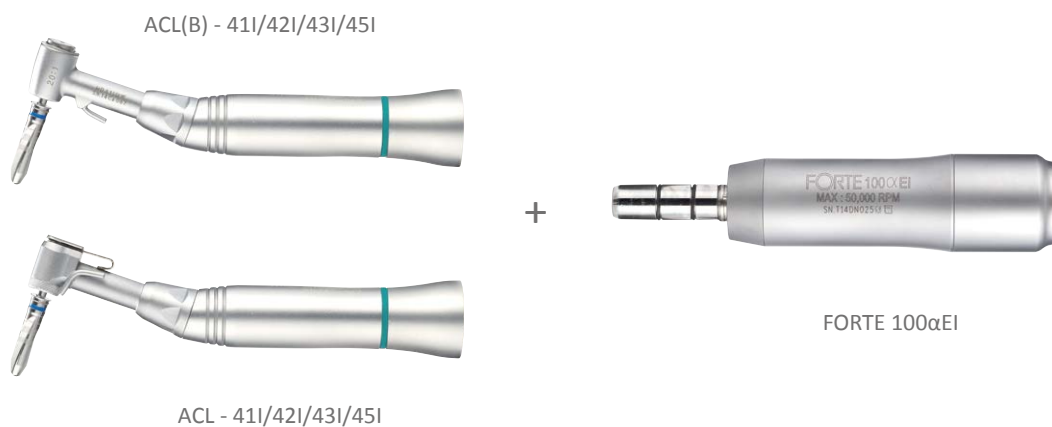




- BLDC motor (Speed Range 0~50,000rpm) and angle (Standard equipment 20:1) provides the optimum torque in surgery.
- Gear ratio : 1:5, 1:4, 1:1, 16:1, 20:1, 27:1, 32:1, 64:1
- 9 programmable memories for setting Speed, Torque, Rotating Direction Irrigation pump
- Automatic overload protection function
- Actual RPM display for user's working condition.
- Motor auto-calibration function
- Ergonomic foot control pedal
- Membrane touch display
- Self - diagnosis function



HANDPIECE OPTION



PRODUCT SPECIFICATION

H/P

	ACL-41I	ACL-42I	ACL-43I	ACL-45I	ACL(B)-41I	ACL(B)-42I	ACL(B)-43I	ACL(B)-45I
GEAR RATIO	20 : 1	16 : 1	64 : 1	32 : 1	20 : 1	16 : 1	64 : 1	32 : 1
WEIGHT	60g	60g	64g	60g	60g	60g	64g	60g
TYPE	Lever	Lever	Lever	Lever	Button	Button	Button	Button
MAX.RPM	2,500	3,100	780	1,560	2,500	3,100	780	1,560
TORQUE	55Ncm	55Ncm	65Ncm	65Ncm	55Ncm	55Ncm	65Ncm	65Ncm

C/B

INPUT	AC100-120V, 220-240V
FUSE	5A / 2A
FREQUENCY	50/60 Hz
OUTPUT	Max : 230W
MAXIMUM PUMP	Max .75mL/min
DIMENSIONS(MM)	W205 x D210 x H136
WEIGHT	3.3kg



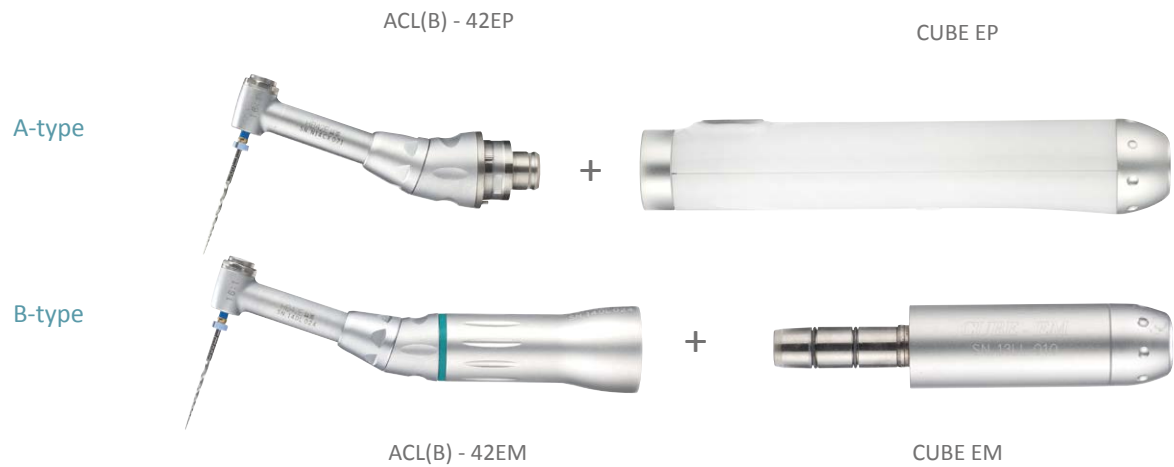
E n d o CUBE

E-CUBE is an endodontic micromotor to drive NiTi instruments. This motor has to be used only in hospital environments, clinics or dental offices by qualified dental personnel.

- Auto Reverse function
- Torque control from 0.6 to 5.2 N.cm
- Gear ratio : 1:1,4:1,10:1,16:1,20:1
- 9 programs
- Foot on/off switch
- Up to 5-hour battery life
- Compact designed controller including various function
- Stable torque supply
- Operation available with battery or adapter



HANDPIECE OPTION



PRODUCT SPECIFICATION

C/B

INPUT	DC20V 1.5A
OUTPUT	DC6V
CHARGING TIME	approx.5hours
DIMENSIONS(MM)	W110 x D196 x H139
WEIGHT	582g

H/P

	ACL(B) - 41EP	ACL(B) - 42EP	ACL(B) - 42EM
GEAR RATIO	20 : 1	16 : 1	16 : 1
WEIGHT	35g	35g	52g
DIMENSIONS(MM)	Ø16.7 x L63mm	Ø16.7 x L63mm	Ø19.6 x L95.2mm
RPM	650	812	812
TORQUE	5.2Ncm	5.2Ncm	5.2Ncm

MICRO MOTOR

	CUBE EM	CUBE EP
INPUT	DC6V	DC6V
DIMENSIONS(MM)	Ø19.8 x L61.7mm	Ø19.8 x L108mm
WEIGHT	116g	106g



Traus ENDO

CORDLESS ENDO HANDPIECE

- Simple interface design for easy control
- No space-limitation for operation
- Optimized Design for user Interface.
- Ergonomic and compact body



<Endo mode>

- RPM: 100~600 RPM
- Torque: 1~4N.cm
- Gear Ratio: 16:1, 20:1
- Rotation Mode: 1, 2

<Program function>

- 5 memory programs of (Gear Ratio, Torque, RPM, Direction mode) are available to set.

<Setting torque limit function>

- Once actual load on the file is higher than preset torque, it stops working automatically.

<Rotation mode>

- Users can choose Auto-rotation mode according to operation condition.

Mode 1: Once actual torque is over the preset torque, the file moves in reverse rotation. After removing the load, it stops.

Mode 2: Once actual torque is over the preset torque, the file runs reverse automatically and it turns forward rotation again once load released.

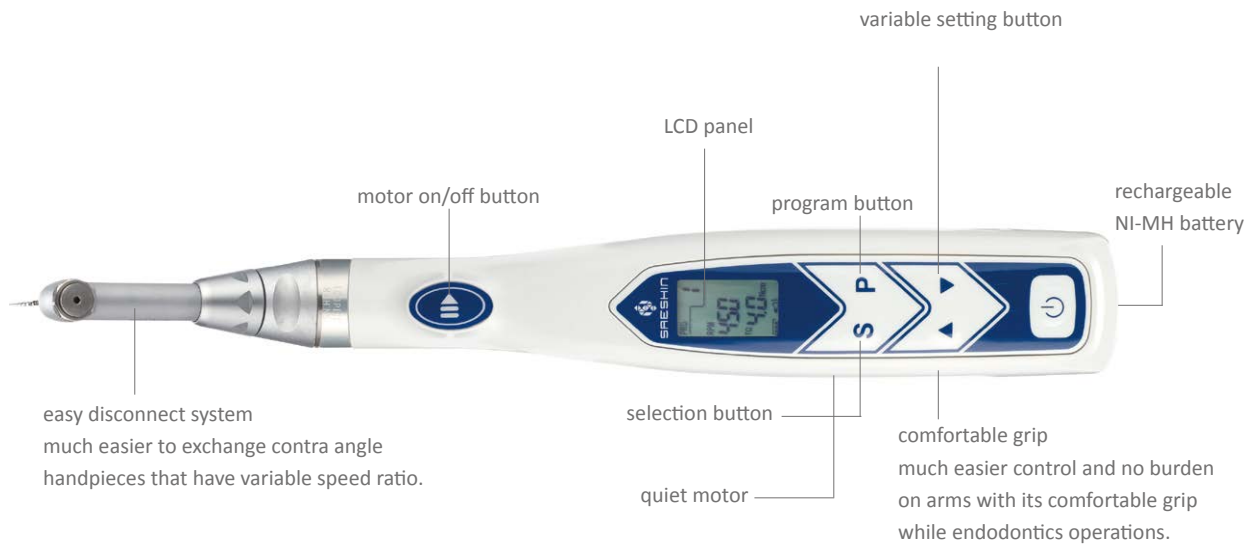
<Auto-OFF function>

- Power is off with "Beep" sound after 4 minutes without operation.

Suitable for use with the most major brands of Ni-Ti files

Rotation Speed (min)	Gear Ratio	Torque Level (Ncm)
550~2000	4 : 1	0.1 - 1.0
200~900	10 : 1	0.2 - 2.0
140~550	16 : 1	0.3 - 3.0
100~450	20 : 1	0.4 - 4.0

PRODUCT SPECIFICATION



PRODUCT SPECIFICATION

Charger (TRAUS XEW10)

RATED VOLTAGE	AC100-240V 50/60Hz
OUTPUT	DC4V
CHARGING TIME	approx.2.5hours

Motor Handpiece(TRAUS MCE10XX)

RATED VOLTAGE	DC4V
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ANGLE

	ACL(B) - 41EP	ACL(B) - 42EP
GEAR RATIO	20 : 1	16 : 1
WEIGHT	35g	35g

RPM and Torque value at Gear Ratio 20:1

- RPM: min. 100rpm ~ max. 600rpm
- Torque (Ncm): min. 1Ncm ~ max. 4Ncm
- Using time is depends on operating condition.

Air Motor

► TRAUS MRD10NN

- Non-return valve designed in coupling functions specially not to flow the oral fluids backward from the patient's mouth to the handpiece.

The special coating for impeller case provides high durability decreasing the wear

- The airmotor is autoclavable.

- The special coating on impeller case brings great durability.

Drive Air[MPa(kgf/cm ²)]	Speed[min ⁻¹ (rpm)]	Air Consumption[NL/min]
0.25 (2.5)	20,000	42
0.3 (3.0)	22,000	51



Brushless E-Type sealed motor

- Optic function : (Option) 40K BLDC MOTOR (TRAUS MBP10SL)

- Brushless E-type motor with 50,000rpm (TRAUS series : 40,000rpm)

- Quite and strong torque

- Available for various angles in accordance with ISO standard

Sealed type for water-proof during the sterilization

- The fixing pin helps the exact fitting between the E-type motor and angle handpiece without movement.

► TRAUS MBP10SL (40K) - Optic



134°C

► TRAUS MBP10SX (40K)



134°C

► FORTE 100αEI (50K)



134°C



Carbon Brush E-Type sealed motor

► STRONG 108EI (40K)



Carbon Brush E-Type motor

- Available for various angles in accordance with ISO standard

► STRONG 108NE (40K)



► STRONG 108E (35K)



1:1 Straight & Contra angle

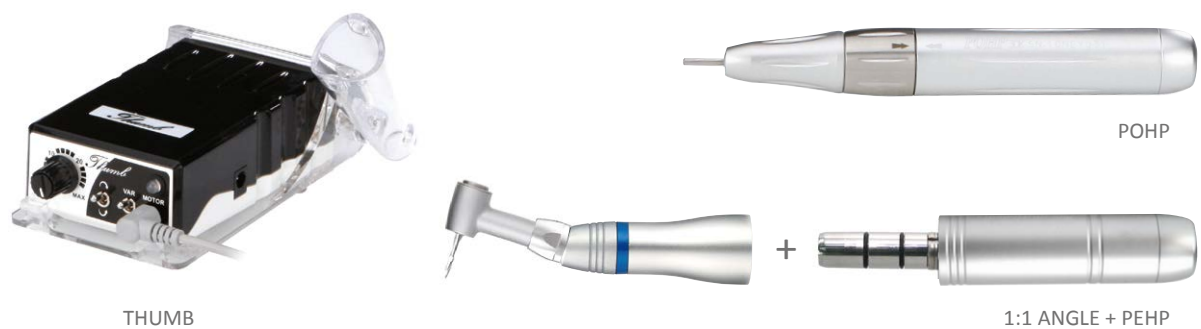


Air Motor + 3Package

► TRAUS MRD10NN + ACL(B)-01C + AT-I



Portable Package





LABORATORY



FORTE 400s



Desktop type

Ergonomic design

Excellent durability



- RPM : MAX 60,000rpm
- Torque : 6.5 N.cm
- Input : AC100-120V~/220-240V~(50/60Hz)
- Output : 230W
- Weight : Control box 2.2kg
- Handpiece : 202g(Forte400SI)
- Overload display
- Lowest noise and vibration, Maximal efficiency
- Hand / Foot speed control system
- Built-in micro processor
(Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)



Forte400SI

OZ



Digital watch

Strong torque at low speed

Vertical / horizontal placement



- RPM : MAX 60,000rpm
- Torque : 6.5 N.cm
- Input : AC100-120V~/220-240V~(50/60Hz)
- Output : 230W
- Weight : Control box 2.5kg
- Handpiece : 202g(OZ100)
- Right & Left turning ability
- Hand / Foot speed control system
- Self-diagnosis, Error display, Work memory, storage function



OZ100

OZ Black - D



Strong torque at low speed
Vertical / horizontal placement



- RPM : MAX 50,000rpm
- Torque : 6.5 N.cm
- Input : AC100-120V~/220-240V~(50/60Hz)
- Output : 230W
- Weight : Control box 2.5kg
- Handpiece : 226g(Forte400αl)
- Right & Left turning ability
- Hand / Foot speed control system
- Self-diagnosis, Error display, Work memory, storage function

Detail



FORTE 200α - D



Knee control type
Ergonomically designed
Excellent durability



- RPM : MAX 50,000rpm
- Torque : 6.5 N.cm
- Input : AC100-120V~/220-240V~(50/60Hz)
- Output : 230W
- Weight : Control box 3kg
- Handpiece : 226g(Forte400αl)
- Lowest noise and vibration, Maximal efficiency
- Hand / Foot speed control system
- Built-in micro processor
(Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)
- Foot speed control is optional



Forte400αl

FORTE100α



Desktop type
Ergonomic design
Excellent durability



- RPM : MAX 50,000rpm
 - Torque : 7.8 N.cm
 - Input : AC100-120V~/220-240V~(50/60Hz)
 - Output : 230W
 - Weight : Control box 2.9kg
 - Handpiece : 254g(Forte100αIII)
 - Lowest noise and vibration, Maximal efficiency
 - Hand / Foot speed control system
 - Built-in micro processor
- (Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)

FORTE200α



Knee control type
Ergonomically designed
Excellent durability



- RPM : MAX 50,000rpm
 - Torque : 7.8 N.cm
 - Input : AC100-120V~/220-240V~(50/60Hz)
 - Output : 230W
 - Weight : Control box 3kg
 - Handpiece : 254g(Forte100αIII)
 - Lowest noise and vibration, Maximal efficiency
 - Hand / Foot speed control system
 - Built-in micro processor
- (Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)
- Foot speed control is optional



OZ Black



Desktop type
Ergonomic design
Excellent durability



- RPM : MAX 50,000rpm
- Torque : 7.8 N.cm
- Input : AC100-120V~/220-240V~(50/60Hz)
- Output : 230W
- Weight : Control box 2.5kg
- Handpiece : 254g(Forte100αIII)
- Overload display
- Lowest noise and vibration, Maximal efficiency
- Hand / Foot speed control system
- Built-in micro processor
(Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)

Detail



FORTE 300α



Ergonomic design
Excellent durability
Low noise and vibration



- RPM : MAX 50,000rpm
- Torque : 7.8 N.cm
- Input : AC100-120V~/220-230V~/240V(50/60Hz)
- Output : 230W
- Weight : Control box 1.9kg
- Handpiece : 254g(Forte100αIII)
- Right & Left turning ability
- Hand / Foot speed control system
- Built-in micro processor
(Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)



STRONG 206



Double output system
Non stage speed system
with high torque



- RPM : MAX 45,000rpm
- Torque : 450 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.7kg
- Right & Left turning ability
- Hand / Foot speed control system
- Automatic overload protection system
- Circuit safety system

STRONG 207S



Double output system
Non stage speed system
with high torque



- RPM : MAX 45,000rpm
- Torque : 450 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.8kg
- Right & Left turning ability
- Hand / Foot speed control system
- Automatic overload protection system
- Circuit safety system



103L



106

STRONG 202



Dual RPM system(35K,45K)

RPM Display

Desktop type



- RPM : MAX 45,000rpm
- Torque : 450 gf.cm
- Input : AC100V/110V/220-230V~/240V(50/60Hz)
- Output : DC 0-32V
- Weight : 2.2kg
- Non stage speed control system with high torque
- Right&Left turning ability
- Hand/Foot speed control system
- Built-in micro processor
(Self - diagnosis, Error display, Work memory storage and Handpiece auto-recognition function)



105LN

STRONG 230



4-stage speed system

Carbon brush motor

Comparatively large dimensions

For heavy duty use



- RPM : MAX 30,000rpm
- Torque : 900 gf.cm
- Input : 100-120V~,220-230V,240V(50/60Hz)
- Output : DC25-42V
- Weight : Control box 4kg
- Right & Left turning ability
- Motor protection fuse system
Motor can be protectd thanks to output blocking fuse
- Long durable motor handpiece type with various application
- Hand / Foot speed control system



130

130W

STRONG 230

STRONG 90



Basic model, Mini-compact design
Less-vibration standard carbon brush motor



- RPM : MAX 35,000rpm
- Torque : 280 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.3kg
- Right & Left turning ability
- Non stage speed system
- Hand / Foot speed control system

STRONG 210



Non stage speed system High torque
Unique design
Handpiece holder
Bur stand hold - 18pcs



- RPM : MAX 30,000~35,000rpm
- Torque : 300 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.3kg
- Right & Left turning ability
- Hand / Foot speed control system
- Foot speed pedal or Foot On-Off pedal-Option



102

102L

107

STRONG 207A/B



Compact design
Ergonomic design
Non stage speed system
High torque



- RPM : MAX 35,000rpm
- Torque : 280 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.7kg
- Right & Left turning ability
- Hand / Foot speed control system
- Automatic overload protection system
- Foot speed pedal or Foot On-Off pedal-Option

STRONG 209A/B



Compact design
Ergonomic design
Vertical / Horizontal placement



- RPM : MAX 35,000rpm
- Torque : 280 gf.cm
- Input : 100V,110V/230V,240V(50/60Hz)
- Output : DC0-32V
- Weight : Control box 1.2kg
- Right & Left turning ability
- Hand / Foot speed control system
- Circuit safety system
- Foot speed pedal or Foot On-Off pedal-Option



105(35K)



105L(35K)



105LN (45K)

OTHER PRODUCTS

WP-4, WP-5

DIGITAL WAX HEATER



Easy to use and operate

Easy to select celsius or fahrenheit

30°C ~120°C

- Heats wax quickly and maintains in its liquid condition without any change in physical properties
- Build-in digital CPU circuit to preset and maintain desired temperature accurately and precisely
- input : 100V, 110-120V~,220-230V~,240V(50/60Hz)
- Dimension : C/B W195 x H56 x D110mm / 0.5kg
- Option wp-4 / wp-5

WP-1, WP-3

DIGITAL WAX DIPPING UNIT



Excellent corrosion resistance for pot and abrasion

Easy cleaning of the pot

made of special material / 30°C ~130°C

- Accurate temperature adjustment & quick thermal conductivity
- Usable for long time without any change in physical quality of wax
- Celsius and Fahrenheit display function
- Different temperature adjustment of each pot for efficient work (wp-3)
- Input : 100V, 110V/230V, 240V(50/60Hz)
- Dimension : C/B W193 x H70 x D130mm / 0.97kg(wp-3)
C/B W102 x H70 x D140mm / 0.39kg(wp-1)

PH

DIGITAL WAX PENCIL HEATER



LED on for operating and heating

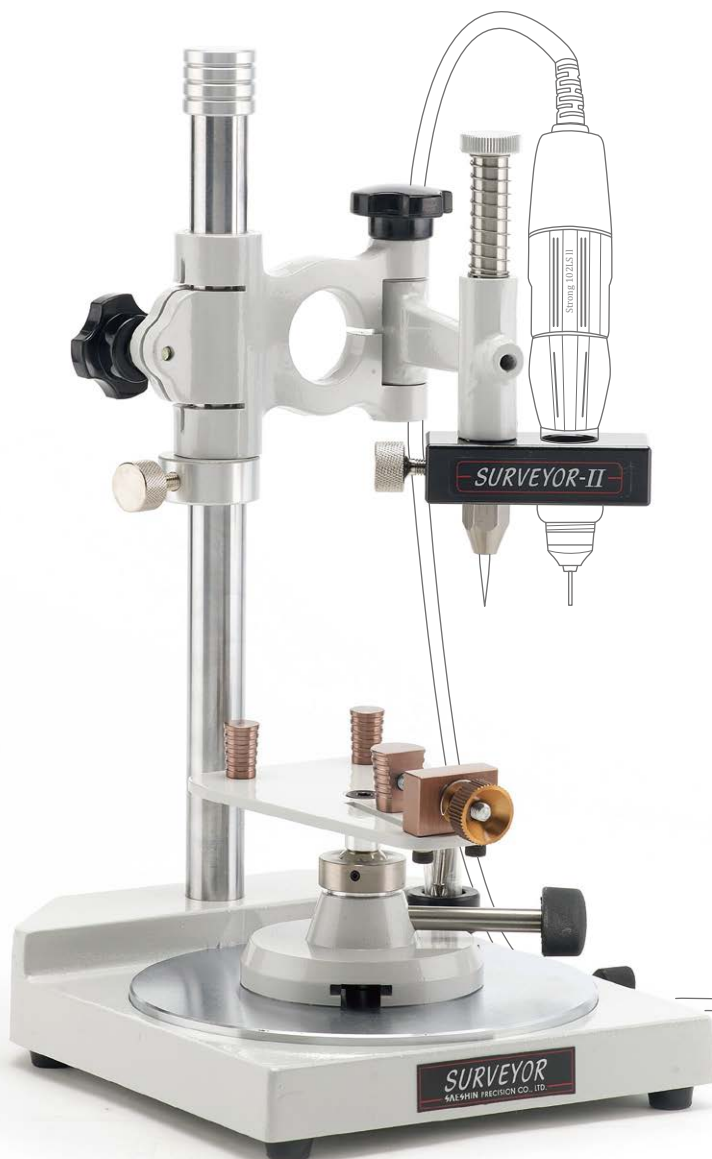
Easy set up for sensitivity using button

Easy set up for heating time using button

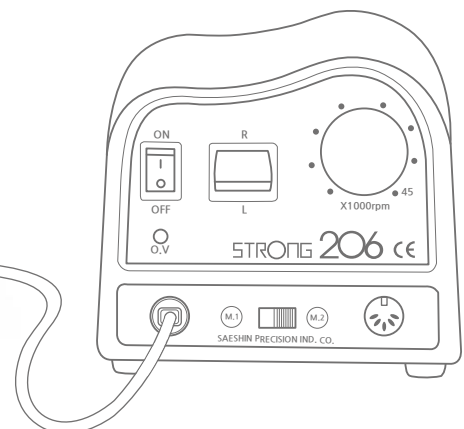
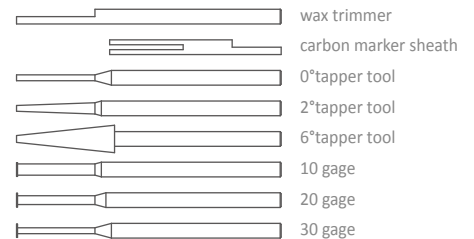
- Ergonomic design with convenient use movement by proximity sense
- Safety from fire and burn to gain high heat in short time
- Input : 100V, 110V, 220-230V~, 240V(50/60Hz)
- Dimension : C/B W98 x H91 x D204mm / 0.5kg

More precise work is possible
with the exclusive handpiece

- High quality precision instrument for milling, drilling setting attached models, and tapping
- Smooth and micro-fit arm
- Surveyor holder using for Exclusive handpiece (Strong102LSII)
- Easy movement of fixing vise and 360° rotation
- Surveyor pin 8 pieces are included
- Weight : L203.5 x W170 x H330




















- Strong 102LS II
35,000rpm (carbon)




MAINTENANCE & PARTS

LABORATORY

<ul style="list-style-type: none"> Motor stand 	<ul style="list-style-type: none"> Foot on/off Switch Length : 1.5m 	<ul style="list-style-type: none"> Foot Speed Control A 	<ul style="list-style-type: none"> Foot Speed Control B 
<ul style="list-style-type: none"> Handpiece Holder (Thumb) 	<ul style="list-style-type: none"> Handpiece Holder (210) 	<ul style="list-style-type: none"> Handpiece Holder (209A,B) 	<ul style="list-style-type: none"> Surveyor pin set 
<ul style="list-style-type: none"> Lead[3din] Brush HP Length : 1.5m 	<ul style="list-style-type: none"> Lead[3din] Brushless HP Length : 1.8m 	<ul style="list-style-type: none"> Lead[3din] S-110L Length : 2m 	<ul style="list-style-type: none"> Spindle assembly 
<ul style="list-style-type: none"> Armature 	<ul style="list-style-type: none"> Collet Chuck Size : Ø1.6 Ø2.35 Ø3.0 Ø3.175 	<ul style="list-style-type: none"> Sleeve collet chuck Inside Size : Ø1.6 Ø2.34 	<ul style="list-style-type: none"> Carbon brush 
<ul style="list-style-type: none"> Ball bearing 			

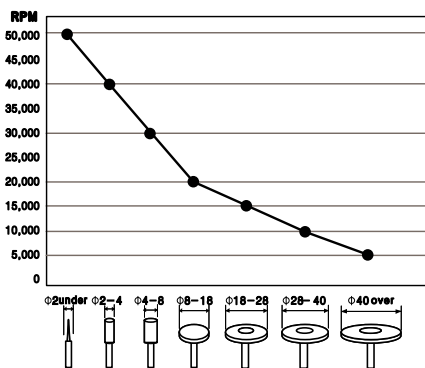
DENTAL

<ul style="list-style-type: none"> Hanger 	<ul style="list-style-type: none"> Motor stand A 	<ul style="list-style-type: none"> Motor stand B 	<ul style="list-style-type: none"> Tube Holder 
<ul style="list-style-type: none"> Irrigation tube 	<ul style="list-style-type: none"> Y-Connector 	<ul style="list-style-type: none"> Tube Clamp 	<ul style="list-style-type: none"> Internal spray nozzle C 
<ul style="list-style-type: none"> Motor cap for autoclave 	<ul style="list-style-type: none"> Internal spray nozzle A 	<ul style="list-style-type: none"> Internal spray nozzle B 	<ul style="list-style-type: none"> Foot Hanger & joint cap 
<ul style="list-style-type: none"> Torque wrench 	<ul style="list-style-type: none"> Tip holder 	<ul style="list-style-type: none"> Surgical tray 	<ul style="list-style-type: none"> E-TYPE motor cord E-type motor cord Length : 1.7m 
<ul style="list-style-type: none"> E CUBE adapter 	<ul style="list-style-type: none"> Foot control cord X-CUBE Length : 1.7m 	<ul style="list-style-type: none"> Foot control cord TRAUS SIP10 Length : 1.7m 	<ul style="list-style-type: none"> Lubrication Oil Spray 

MAGIC HANDPIECE CLEANER

<ul style="list-style-type: none"> • SMC-IMPL (Handpiece Cleaning Nozzle) 	<ul style="list-style-type: none"> • SMC-E (Handpiece Cleaning Nozzle) 	<ul style="list-style-type: none"> • SMC-KH (Handpiece Cleaning Nozzle) 	<ul style="list-style-type: none"> • SMC-NHPTL (Handpiece Cleaning Nozzle) 
<ul style="list-style-type: none"> • SMC-NQDH (Handpiece Cleaning Nozzle) 	<ul style="list-style-type: none"> • SMC-WH (Handpiece Cleaning Nozzle) 		

CAUTIONS



Please keep the RPM according to below diagram against the accident.
(The allowable RPM could be different from the bur material and type.)

The allowable RPM according to the bur diameter

- Do not work in a dangerous place.
Do not use the control box in a humid place.

- Our handpiece & foot pedal should be only used for our control unit.

- Wear proper protective clothes and equipment, including a dust mask and safely goggles.
Use a proper suction unit and a ventilator.

- Bur
Use a bur that conform to the ISO standards.
Avoid using a rusty or bent bur that may cause excessive wear of bearings.
Keep safe speed, and precautions recommended by bur manufacturer.

- Check for any troubles, including vibration of bur, at low speed, and then start high speed.

- Operate the speed control dial of the control box softly.

- Turn off the power in order to change the bur.

- Be careful not to drop the handpiece as it may be damaged or broken.

In case that it is dropped, check if the bur is bent or that any excessive heat is generated while careful operating it.

- Keep the place around in handpiece clean from dust and grindings.

- Remove dust on handpiece wiping with isopropyl alcohol and avoid wet inside.

- Do not lubricate or wash with water.
Lubrication is not needed as bearing used in the handpiece and motor are greased properly.

- If any problem occurs in handpiece, use after repairing.

- Do not turn on the power of control box while the collet chuck of handpiece open.
(Short circuit of the motor may be caused)

- Use the products in proper use as per the instruction and do not use not recommended by the manufacturer.