mtc

DENTAL PRODUCTS

General Catalogue

INTRODUCTION

MTC Industries & Research Carmiel Ltd. is one of the leading companies in Israel, developing and manufacturing complex aerospace systems and products, as well as medical/dental instruments.

Since its establishment in 1977, MTC has successfully incorporated a broad range of technologies and products. As such, MTC has become a major supplier of these specialized products to leading industries in Israel and worldwide.

MTC utilizes experience gained from its manufacture of aerospace products using special metals, coatings and advanced technologies, applying these in the field of medical instruments, particularly for the dental handpiece.

MTC High-Speed Air Turbine Handpieces are exceptionally light (half the weight of the competitors'), and are characterized by a miniature head, extra power, an ergonomic design, silent operation (low vibration), a strong light, and easy cartridge replacement.

Select models of MTC handpieces have a 5-port water spray, lube-free bearings, an anti-retraction system, and many other outstanding features.

MTC also offers Light Power Supply kits for adaptation of non-fiber optic dental units to be used with fiber-optic handpieces.

The MTC high performance handpiece is among the best in the world thanks to the use of advanced technologies, materials and quality control. MTC dental products are evaluated by world-renowned institutions, which attest to their top quality. The MTC SF 8500 series was awarded four stars by "REALITY" in 2003 and 2004 consecutively. MTC's highly professional R&D and manufacturing layout give priority to the dental practitioner's convenience, as well as to the safety, reliability and accurate performance of its dental products.

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SM 9702

Non Fiber-Optic

High-Speed Air Turbine Handpiece intended for use with MTC's Multi-Purpose Dental Bur Extension Tool

Simple insertion of extension tool with bur, and turbine is ready for operation

- Speed : 400,000 rpm
- Power : > 17 watts
- Chuck type : push button
- Weight : 33 gr. (1.16 oz)
- Spray type : External 1-port
- Sound level : < 60 dB (A)
- Anti-retraction system
- Fully sterilizable
- Bearing options : Lube Free
- Two holes for saline supply and no air hole, to prevent emphysema

SM 9702

Q-9 Quick-Connector

A_2, A_3, B_4 Hole

SU - 400

Dental Surgical Unit

The SU-400 dental surgical unit is designed for drilling in deeply located areas, using a High Speed Air Turbine Handpiece with external irrigation during implantology, oral surgery and other dental procedures.

- AC Power : 220/240 V 60 Hz
- Irrigation : Adjustable from 4 to 50 ml/min
- Handpiece air pressure : 42-50 psi
- Drill depth for 19 mm long bur : 8/10/12 mm
- Extension tool length : 13.5/11.5/9.5 mm

- Pump BLM 200
- AC power supply cord
- High speed air turbine set with model SM 9702
- Extension tool set DBET-6308
- Metallic ranger rod holder for irrigation liquid bottle
- Handpiece holder
- 4-hole handpiece hose 2-sided connections
- Irrigation tube connecting peristaltic pump to handpiece
- Fitting kit
- Tubes' holders

mtc
200 pump
on
90
80
70
60
50
40
30
20
10
100

mtc-400

HANDPIECE

SM 9502

Non Fiber-Optic

- Speed : 400,000 rpm
- Power : > 20 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 5-port
- Sound level : < 60 dB (A)
- Anti-retraction system
- Fully sterilizable
- Bearing options :
  - S - Stainless Steel
  - L - Lube Free
  - C - Ceramic

Q-9 Quick-Connector

A_2, A_3, B_4 Hole

SF 9502

Fiber-Optic

- Speed : 400,000 rpm
- Power : > 20 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 5-port
- Sound level : < 60 dB (A)
- Light : cellular glass rod
- Anti-retraction system
- Fully sterilizable
- Bearing options :
  - S - Stainless Steel
  - L - Lube Free
  - C - Ceramic

QF-9 Quick-Connector

C_4, B_5 Hole

HANDPIECE

SF 7807 K

Compatible with MULTIflex®

- Speed : 400,000 rpm
- Power : > 18 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 1-port
- Light : bundle fiber-optic
- Fully sterilizable
- Ergonomic design
- Special miniature head
- Silent operation
- Low vibration

** MULTIflex® is a registered trademark of Kaltenbach & Voigt GmbH & Co. kg, Biberach*

SF 9502 K

Compatible with MULTIflex®

- Speed : 400,000 rpm
- Power : > 20 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 5-port
- Sound level : < 60 dB (A)
- Light : cellular glass rod
- Anti-retraction system
- Fully sterilizable
- Bearing options :
  - S - Stainless Steel
  - L - Lube Free
  - C - Ceramic

SMART

SF 8501

Polished Head

SF 8502

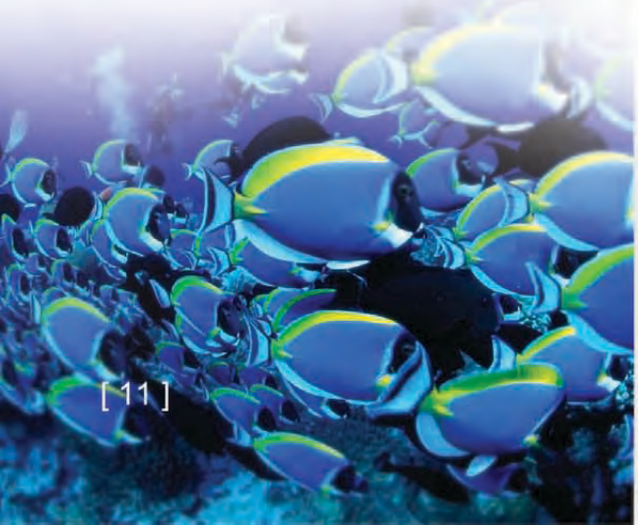
Matte Head

- Speed : 400,000 rpm
- Power : > 20 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 5-port
- Light : bundle fiber-optic
- Anti-retraction system
- Fully sterilizable
- Lube-free

Fiber-optic

QF-7 Quick-Connector

C_4, B_5 Hole



Smart

ADVANCED

- Speed : 400,000 rpm
- Power : > 18 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 1-port
- Anti-retraction system
- Fully sterilizable
- Ergonomic design
- Special miniature head
- Silent operation
- Low vibration
- Lube-free

M 8101

Polished Head

Non fiber-optic

Fixed Connection

A_2, A_3, B_4 Hole

FM 8101

Polished Head

Fiber-optic

Fixed Connection

B_5 Hole

M 8102

Matte Head

Non fiber-optic

Fixed Connection

A_2, A_3, B_4 Hole

FM 8102

Matte Head

Fiber-optic

Fixed Connection

B_5 Hole

Advanced

ADVANCED

- Speed : 400,000 rpm
- Power : > 18 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 1-port
- Anti-retraction system
- Fully sterilizable
- Ergonomic design
- Special miniature head
- Silent operation
- Low vibration
- Lube-free

SM 8101

Polished Head

Non fiber-optic

Q-7 Quick-Connector

A_2, A_3, B_4 Hole

SF 8101

Polished Head

Fiber-optic

QF-7 Quick-Connector

C_4, B_5 Hole

SM 8102

Matte Head

Non fiber-optic

Q-7 Quick-Connector

A_2, A_3, B_4 Hole

SF 8102

Matte Head

Fiber-optic

QF-7 Quick-Connector

C_4, B_5 Hole

SPECIAL

- Speed : 400,000 rpm
- Power : > 18 watts
- Chuck type : push button
- Weight : 32 gr. (1.13 oz)
- Spray type : 1-port
- Fully sterilizable
- Ergonomic design
- Special miniature head
- Silent operation
- Low vibration

M 7807

Non fiber-optic

Fixed Connection

A_2, A_3, B_4 Hole

FM 7807

Fiber-optic

Fixed Connection

B_5 Hole

Special

SM 7807

Non fiber-optic

Q-7 Quick-Connector

A_2, A_3, B_4 Hole

SF 7807

Fiber-optic

QF-7 Quick-Connector

C_4, B_5 Hole

Physio - Dispenser

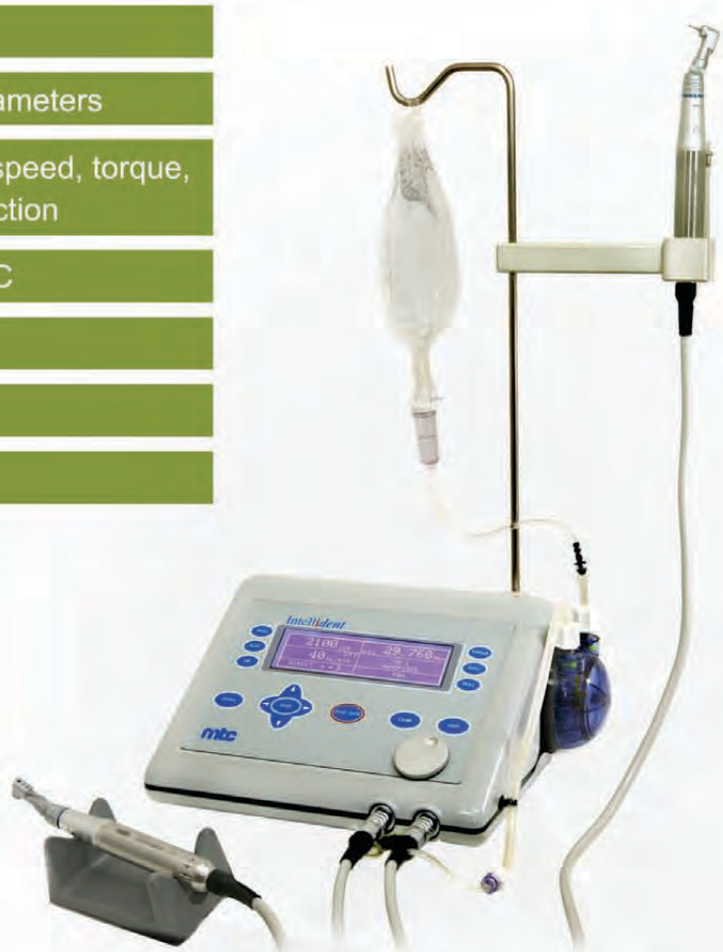
INTELLIDENT

LS1107-2

Double Micromotor Surgical Multifunction Programmer System

For oral surgery, implant insertion, bone grinding, drilling, tapping, endodontic technology

- Two Micromotors (various options)
- Wireless Foot Control Unit
- Manual operation mode with limitation parameters
- Customizable program setting for chosen speed, torque, coolant flow, gear ratio, and rotational direction
- Saves documents and quality of work in PC
- Calibration system
- Auto-stop function
- Added Accent Lighting



- Basic Electronic Control Unit with large screen
- Brushless autoclavable motor
- Light indication for reverse motor
- Wireless Foot Control Unit
- Irrigation pump
- Cables and accessories

Supply voltage: 100-240 V AC, 50/60 Hz
Variable handpiece ratio: from 1:2 to 1:6; from 1:1 to 512:1
Micromotor speed range with various attachments handpiece: 2-240,000 rpm
Micromotor torque with handpiece ratio 20:1 : up to 30 Ncm
Micromotor torque with handpiece ratio 40:1 : up to 60 Ncm

LS1107-1

Surgical Multifunction Programmer System

For oral surgery, implant insertion, bone grinding, drilling, tapping, endodontic technology

- Manual operation mode with limitation parameters
- Customizable program setting for chosen speed, torque, coolant flow, gear ratio, and rotational direction
- Saves documents and quality of work in PC
- Aluminum Housing

- Basic Electronic Control Unit with large screen
- Brushless motor
- Foot Control Unit
- Irrigation pump
- Cables and accessories

Power: 250-300 VA
Supply voltage: 220-240 V (100-130 V), 50/60 Hz
Speed range with various attachments handpiece: 5-250,000 rpm
Standard ISO coupling handpieces for different applications

INTELLIDENT

Brushless-Micromotor

- Brushless, self-cooling, double insulated type
- Fully sterilizable by autoclave, including cable
- Silent operation
- High power
- ISO 3964 E standard coupling
- Full protection against electrical shock hazards

Power (at 40,000 rpm): 50 W	
Supply voltage: 24 V DC	
Speed range: 200-40,000 rpm	
Operation torque: < 5 N.cm	
Outer diameter: < 19.8 mm (0.78 in)	
Weight: < 100 gr. (3.5 oz.)	
Material:	Titanium
	Stainless Steel

ACCESSORIES

- LPS - Light power supply box
- Q-7/Q-9 - quick-connector *non fiber-optic*
- QF-7/QF-9 - quick-connector *fiber-optic*
- Turbine cartridge
- Hose / fiber-optic
- Lubricant spray
- Air pressure gauge
- Halogen light bulb
- O-ring kit for quick-connector
- Lubricant adapter
- Drainage adapter

*LPS-
Light Power
Supply Box*

*Halogen
Light Bulb*

Cartridge

Lubricant Spray

Quick Connectors

Lubricant Adapter

Drainage Adapter

O-Ring Kit

Air Pressure Gauge

*Fiber-Optic
Hose*

Dental Bur

EXTENSION TOOL

Dr. Yahav Multi-Purpose Dental Bur Extension Tool (E.T.)

Extension for dental bur ø1.6 mm for pilot milling, preparation for implants and many other applications with the High-Speed Air Turbine Handpiece

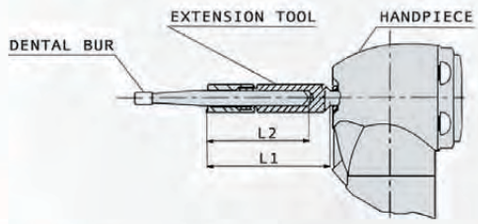
Purpose

Speeding up the drilling or milling process for the benefit of the patient

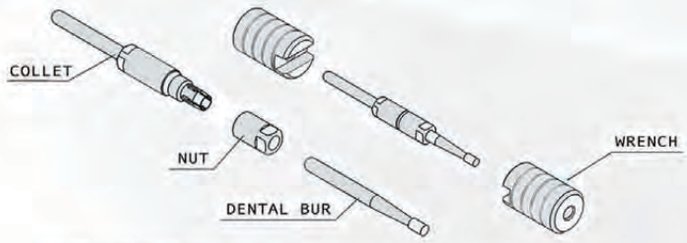
- Longer drills (available in three lengths)
- Two parts for maximum effectiveness
- Accuracy and stability
- Economical device - low cost drills

The Dental Bur Extension Tool consists of 2 parts:

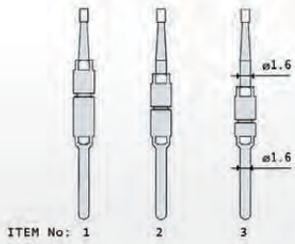
- Collet
- Nut



DENTAL BUR EXTENSION TOOL ASSEMBLY



AVAILABLE IN 3 LENGTHS



ITEM #	L1 MM	L2 MM
1	13.5	11.0
2	11.5	9.0
3	9.5	7.0

Dr. Yahav Multi-Purpose Dental Bur Extension Tool (E.T.)

Extension for dental bur ø1.6 mm for High-Speed Handpiece (360,000-400,000 rpm)

- Cavity preparation for the insertion of a variety of implants
- Harvesting of bone blocks
- Removal of deeply located ankilotic root residues
- Extraction of impacted teeth
  - Apisectomy
  - Amputations
- Treatment in areas standard milling burs cannot reach

TESTIMONIALS

J. HADLEY HALL, DDS

MTC handpieces are outstanding in design, engineering, and overall quality. The torque, balance, decibel level, durability, and other measurable aspects make them the best handpieces available. When you combine these lightweight handpieces with the excellent service MTC offers, you will be glad you purchased MTC handpieces.

J. Hadley Hall, DDS
Arlington, TX, USA

I have been using the MTC handpiece for the last three years. I am very happy with the amount of the torque the handpiece provides, even though it is very lightweight. The fiber-optic light is very sufficient, and I recommend it to all my colleagues.

Mazin Nakhleh, DDS
Dallas, TX, USA

MAZIN NAKHLEH, DDS

IGOR SHMURAK, DMD

Power and lightweight: two dissimilar features that are combined perfectly in one handpiece. In addition, the lube-free miniature head and strong light make it the best tool I have ever used during my 18 years of practicing dentistry. Whether I am preparing a small Class III cavity or performing complex multiple veneer preparations, I enjoy every moment while working with this tremendous MTC handpiece. Along with the competitive price the MTC exceptional service makes this product highly valuable to any dental practitioner.

Igor Shmurak, DMD
Philadelphia, PA, USA

The MTC handpieces that I have been using for 3+ years, have made tooth preparation a joy due to the combination of the decreased weight, high torque and brightness of the fiber-optics compared to other handpieces that I have used over the last 20 years.

Evan Scott Gross, DDS, FAGD
Central Square, NY, USA

EVAN SCOTT GROSS, DDS, FAGD

I have 2 dental clinics for which I carefully select all my equipment. Thus, my experience with various world-renowned handpieces is extensive. During the past 7 years, I have only used MTC's high-speed air turbine handpieces, and in my opinion, they are the best in the world! The silent operation, efficiency, and extensive safety features provide more comfort and stress reduction for my patients. Along with the premium quality equipment, the service that MTC provides is outstanding! It has been a great pleasure working with MTC and I look forward to keeping this ongoing relationship with them.

Amos Yahav, DDS
Natanya, Israel

AMOS YAHAV, DDS

You don't have to be a dentist to understand the MTC advantage. I recently purchased a second dental office. The decision was easy. Ever since I started using MTC handpieces, my hand is no longer tired at the end of the day, and most importantly, I reduced my prep time by 20 to 30%. For me and my two practices, MTC handpieces are the only ones that work. I highly recommend MTC.

Andre Kandy, DDS, PA,
Wichita, KS, USA

ANDRE KANDY, DDS

THE MANUFACTURER

MTC designs, develops and manufactures a wide range of electro-mechanical systems for global Aerospace Industries, as well as innovative medical/dental equipment.

MTC is AS 9100 Rev.C / ISO 9001:2008 certified and a Qualified Vendor to key Aerospace Industries.

MTC is also ISO 13485:2003 certified and the MTC Handpiece is CE marked and FDA registered.

MTC is accredited with thirty years of proven experience and excellent business relations with its loyal and satisfied customers.

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