

980nm Topical Laser – Recommended Heads

Indications for Use - The 980nm laser provides heating for the purpose of elevating tissue temperature for selected medical conditions such as temporary relief of pain, muscle spasms, and increase in local circulation.

A

DIAMETER	DEPTH PROFILE	CLINICAL ROLE	CONDITION	ANATOMY
≈ 10–12 mm small optic, NO GEL	Shallow – Up to 2cm deep	Pinpoint tendon insertions, AC Joint, wrist	AC joint sprain Wrist ligament injury	Superficial small joint Small dorsal structures

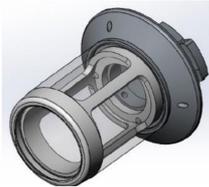
Attachment Head A is designed for irradiating small areas (15 mm in diameter) for heating shallow depths (down to 20 mm). Attachment Head A is used in stationary contact mode and should be positioned perpendicular to the patient's skin.



B1

DIAMETER	DEPTH PROFILE	CLINICAL ROLE	CONDITION	ANATOMY
≈ 12–15 mm curved optic, NO GEL	Shallow/Moderate 2-5cm deep	Curved Surfaces: elbow, ankle tendons/ligaments	Lateral Epicondylitis Medial Epicondylitis Achilles Tendpthy. Rotator Cuff Tendpthy. UCL Partial Tear ATFL/CFL Sprain	Superficial tendon over curved bone Superficial medial epicondyle Superficial curved tendon Moderate depth under deltoid Deep medial elbow Very superficial lateral ankle

Attachment Head B1 is designed for irradiation of a 12 mm spot size to deliver heat to shallow depths and should be positioned perpendicular to the patient's skin during exposure. This attachment must be kept in contact with the patient's skin and smoothly moved around the desired area at a speed no less than 2 mm/sec.



B2

DIAMETER	DEPTH PROFILE	CLINICAL ROLE	CONDITION	ANATOMY
≈ 25–30 mm curved optic, NO GEL	Shallow/Moderate 2-5cm deep	Patellar tendon, ITB, MCL/LCL	Patellar Tendpthy. Quadriceps Tendpthy. MCL Sprain LCL Sprain	Superficial flat anterior knee Superficial broad zone Superficial medial knee Superficial lateral knee

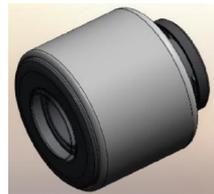
Attachment Head B2 is designed for irradiation of a spot size of 30 mm to heat shallow depths. The attachment must be kept perpendicular to and in contact with the patient's skin and smoothly moved around the desired area at a speed no less than 2mm/sec.



C

DIAMETER	DEPTH PROFILE	CLINICAL ROLE	CONDITION	ANATOMY
≈ 15 mm flat + cooled MUST USE GEL	Moderate/Deep 5-6 cm deep	Patellar tendon, ITB, MCL/LCL	Patellar Tendpthy. Quadriceps Tendpthy. MCL Sprain LCL Sprain	Superficial flat anterior knee Superficial broad zone Superficial medial knee Superficial lateral knee

Attachment Head C is intended for irradiation of deep layers of the patient's body (up to 50 – 60 mm deep). This attachment is pre-cooled and designed to work in contact mode forming a spot diameter of 15 mm on the skin. Before the procedure, place this attachment in the freezer for 40 minutes for patient comfort. When administering therapy, it is necessary to apply ultrasonic gel to the treatment area then continuously and smoothly move the attachment in a circular motion around the desired area at a speed no less than 2 mm/sec, perpendicular to the patient's skin.



D

DIAMETER	DEPTH PROFILE	CLINICAL ROLE	CONDITION	ANATOMY
≈ 25–30 mm curved optic, NO GEL	Shallow/Moderate 2-5cm deep	Patellar tendon, ITB, MCL/LCL	Patellar Tendpthy. Quadriceps Tendpthy. MCL Sprain LCL Sprain	Superficial flat anterior knee Superficial broad zone Superficial medial knee Superficial lateral knee

Attachment Head D is designed to form a light spot on the patient's skin for irradiating areas with a diameter of 40 mm to 140 mm selectable by rotation of the distal lens cap. Attachment Head D shall not contact the patient and must be positioned motionless at a distance of 20 cm from and perpendicular to the patient's skin. To adjust spot sizes, place hand piece 20cm from white paper and press 'Start Procedure' to illuminate the red aiming beam



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TENDINOPATHIES

Condition	Depth / Anatomy	Recommended Head
Knee OA	Deep joint 1–3+ cm	C (Cooled & Gel)
Focal knee chondral defect	Deep localized defect	C (Cooled & Gel)
Hip OA	Very deep joint	C (Cooled & Gel)
Shoulder OA	Moderate depth GH joint	C (Cooled & Gel)
Ankle OA	Shallow–moderate depth	B2
Subchondral bone edema	Below cartilage surface	C (Cooled & Gel)

LIGAMENT INJURIES

Condition	Depth / Anatomy	Recommended Head
Lateral epicondylitis	Superficial tendon over curved bone	B1
Medial epicondylitis	Superficial medial epicondyle	B1
Patellar tendinopathy	Superficial flat anterior knee	B2
Achilles tendinopathy	Superficial curved tendon	B1
Prox hamstring tendinopathy	Moderate–deep ischial region	C (Cooled & Gel)
Quadriceps tendinopathy	Superficial broad zone	B2
Glute med/min tendinopathy	Moderate depth lateral hip	C (Cooled & Gel)
Rotator cuff tendinopathy	Moderate depth under deltoid	B1

JOINTS & CARTILAGE

Condition	Depth / Anatomy	Recommended Head
MCL sprain	Superficial medial knee	B2
LCL sprain	Superficial lateral knee	B2
UCL partial tear	Deep medial elbow	B1
ATFL/CFL sprain	Very superficial lateral ankle	B1
AC joint sprain	Superficial small joint	A
Wrist ligament injury	Small dorsal structures	A