



## Specifications For Cox8® Product Line

The Cox® table is a tool a medical professional uses to aid them in performing chiropractic procedures. Its function is to support the patient's weight while the Doctor performs chiropractic treatments providing a treatment surface. Its purpose is to provide stable patient support. Provide mechanical movement that matches the physiological movement of a person. Offer as much range as possible while still maintaining stability.

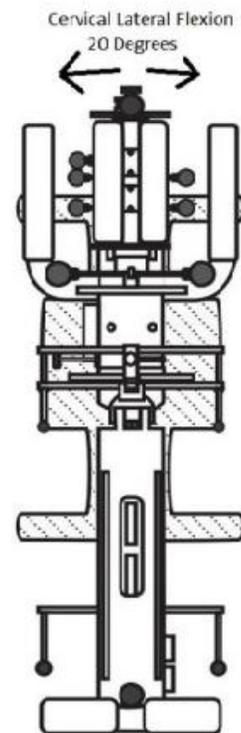
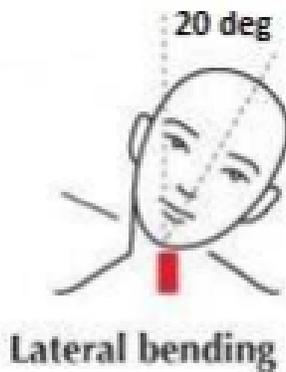
# Specifications

## Cervical

### Lateral Flexion

#### Verification - Design

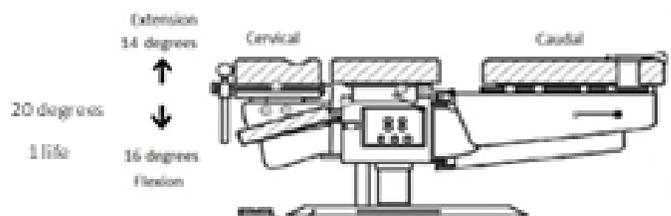
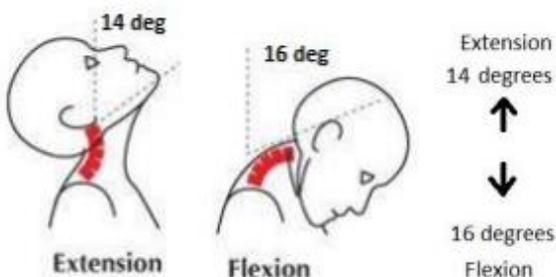
- Lateral Flexion (bending): 20 degrees
- Lateral flexion lock durability: 1 life
- Lateral flexion full range durability: 1 life



### Flexion / Extension

#### Verification - Design

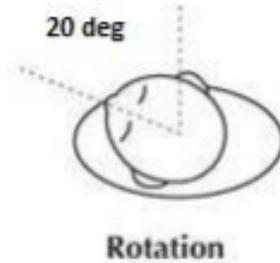
- Flexion: 16 degrees
- Extension: 14 degrees
- Flexion Lock: 5 (Ext. 7.5 & 14, 0 Level, Flex. 7.5 & 14)
- Flexion Lock Durability: 1 life
- Flexion Movement Durability: 1 life



## Rotation

### Verification - Design

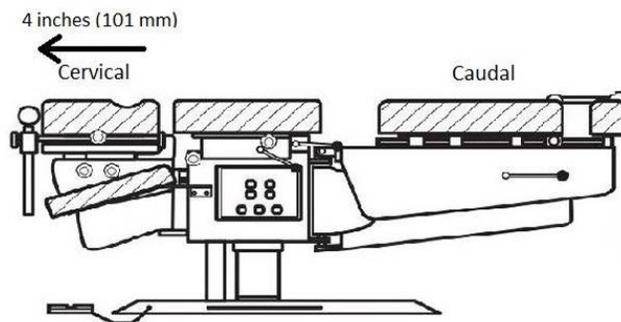
- Rotation: 20 degrees
- Rotation movement durability 1 life



## Long Y-axis

### Verification - Design

- Cervical Y: 4 inches (101 mm)
- Cervical Y locked positions: 5
- Cervical Y lock durability: 1 lifetime
- Cervical Y movement durability: 1 lifetime

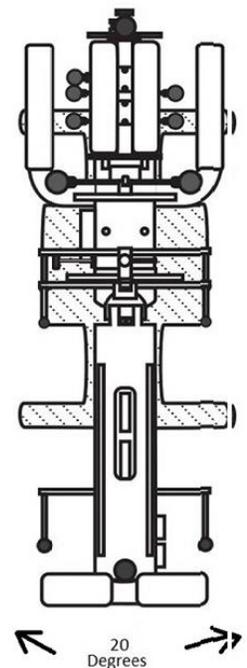
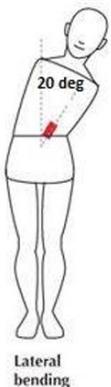


## Caudal

### Lateral Flexion

### Verification - Design

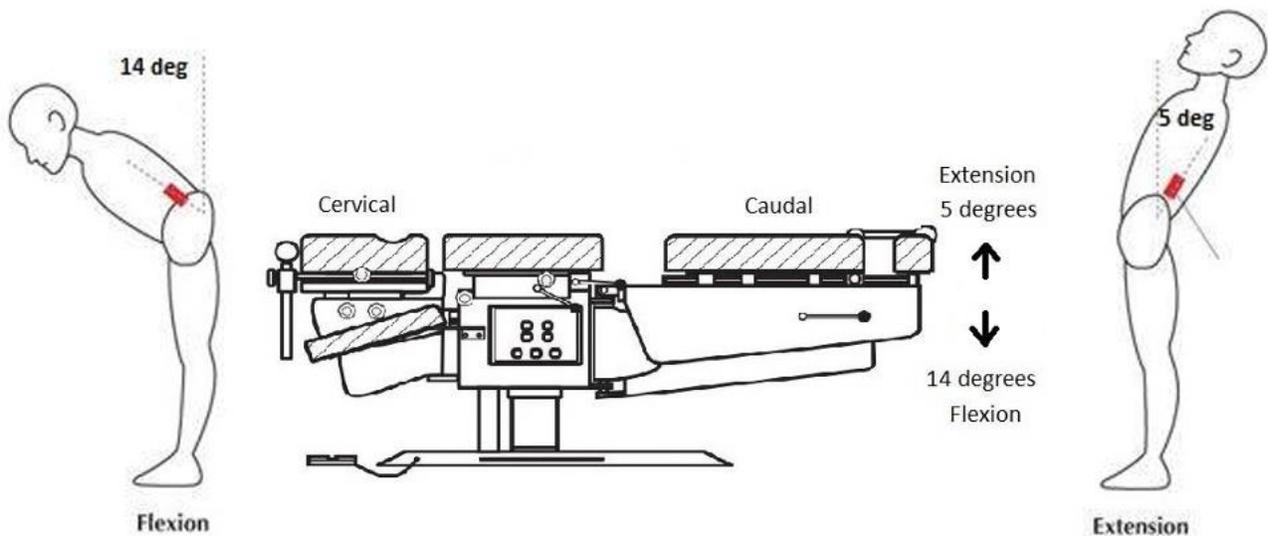
- Lateral Flexion range of motion: 20 degrees both directions
- Lateral flexion lock durability: 1 lifetime
- Lateral flexion movement durability: 1 lifetime



## Flexion

### Verification - Design

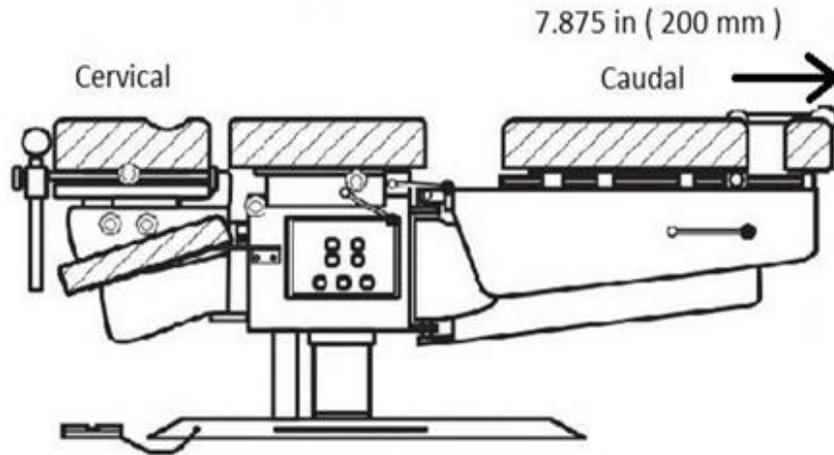
- Flexion range of motion: 14 degrees
- Flexion lock durability: 1 lifetime
- Extension range of motion: 5 degrees
- Flexion and Extension range of motion durability: 1 lifetime
- Flexion lock free play: .13 inches max
- Flexion noise: Smoothing rolling bearing, no ticks
- Flexion counterbalance force: 150 lbs. min (68 kg)
- Powered adjustment between 0 lbs. to 150 lbs. Used to counterbalance the weight of the patient's legs.



## Long Y-axis

### Verification - Design

- Caudal Y travel: 7.875 inches (200 mm)
- Caudal Y axis mechanical durability: 1 lifetime
- Caudal Y axis position sensor: 1 year
- Caudal Y axis actuator: 2 years
- Caudal Y axis speed: 15 mm / sec
- Tiller Bar angle adjustment
- Footrests range of travel
- Footrest lock durability
- Tiller bar Y axis button durability



## Thoracic

### Verification - Design

- Drop: .625 (16 mm)
- Drop Force Max: 310 lbs. (140 kg)
- Durability: 1 life

## Maximum Person

Height: 75 inches (190 mm) (6ft. 1/4in.)

Weight: 400 lbs. (181 kg)

## Surface Height

### Verification - Design

- Standard base: 3" cushion: 25 - 32.75 inches (635 - 832 mm)
- Low base: optional 2" cushion: 22 - 29.75 inches (559 - 756 mm)
- Stability

## Electrical

### Verification - Design

- Voltage: 100 - 240 AC
- Frequency: 50 - 60 hertz
- Current: 3 amps Max.
- Line voltage supplied to external medical grade power supply converting line voltage to 24vdc 11 amps supplied to internal circuits and motors.

# Electrical Controls

## Verification - Design

- Move the column up with a 400 lbs. patient lying as treated.
- Turn off master control relay if electrical current is flowing when control logic is not enabled.
- Current flow when it is not supposed to be
- Do not allow actuator movement if a single electronic fails.

# Safety Controls

## Verification - Design

- Stop all motion when patient stop button is depressed and maintained.
- Stop Auto Y axis session if patient stop button is depressed. Do not allow restart of the auto Y session after the patient stop button is released.
- Column safety strips activation stops downward column movement.
- Safety strip unplugged, 2 places, no downward movement

# Physical

Length: 76 inches

Width: 26.75 inches

Height: See Surface Height Section

Weight: 350 lbs. (159 kg)

# Device Life

Estimated typical clinical usage: 1 life = 7 years.

Patients per day = 20

Days worked per week = 5

Weeks worked per year = 50

Multiply  $20 * 5 * 50 * 7$  times the usage below for expected sub section use.

( 35,000 ) patients.

## **Per patient incidence of use.**

- Column adjust movement up and down - 1 time.
- Caudal Tension adjusts movement up and down - 1 time.
- Caudal tiller bar angle adjust movement set and egress - 1 time.
- Caudal flexion position unlock and lock - 1 time.

- Caudal flexion movement up and down - 20 times.
- Caudal lateral flexion unlock and lock - 1 time.
- Caudal lateral flexion movement side to side - 2 times.
- Caudal footrests position set and release - 1 time.
- Caudal footrest ankle straps apply and release - 1 time.
- Caudal Auto long y movement 10 min, 9 strokes per minute, 2-inch travel - 90 times.
- Thoracic drop - 1 drop □ Thoracic tension set - 2 turns.
- Thoracic strap apply and release -1 time.
- Cervical head cushion width adjust - 1 time.
- Cervical Rotation lock - 1 time.
- Cervical Rotation motion full range -2 times.
- Cervical long Y lock cycle - 1 time.
- Cervical long Y movement - 1 time.
- Cervical flexion lock cycle - 1 time.
- Cervical flexion motion full range -2 times.
- Cervical lateral flexion lock cycle - 1 time.
- Lateral flexion motion full motion -2 times.
- Cervical tiller raise / lower - 1 time.
- Cervical occipital straps apply and release - 1 time.
- Patient stop - 2 times per year.

Haven Medical is here to help in any way possible. Please feel welcome to reach out to us at any time.

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