

MCB Products and Services

Professional Overhauls

I have an international client base and examples of my flute optimisation are to be found in USA , Canada, Australia, England, Thailand and France. I do professional overhauls to all levels of flute and my aim is to take the budget out of each and every flute. In this regard all flutes have tone holes leveled, to improve pad seating and are acoustically optimized. There are three kinds of overhaul variants available.

1. My custom system – This is a thin traditional felt pad seated on a pad stand with glued paper shims. A high quality and professional overhaul.
2. Gold Sound Pads from Music Center – Details are similar to the custom padding. A combination of waterproof paper shims and plastic Mylar shims are used. All shims are glued. Certain flutes benefit massively from the use of sound Pads which are made in blue, red, yellow and gold sound options. Blue (bright), Red (mid-tone), Gold (rich). These pads have a layer of synthetic plastic inside, beneath the felt. This helps to stabilize the pad and prevent changes.
3. Straubinger padding – I specialize in Straubinger padding and have refined some of the processes and tools used by David Straubinger. Various different designs of pad by David Straubinger are available.
4. I do Schmidt pad overhauls on request.

All overhauling of flutes is done to a professional level. You can have the performance of your flute enhanced, and even student flutes can improve dramatically through having a professional overhaul, even though the work is designed for the most expensive handmade instruments.

I also do the undercutting or fraizing of toneholes where appropriate. This improves the homogeneity of sound, the flute's response and also assists in the tuning of octaves and other intervals.

Custom Nylon Grommets

Given my knowledge of aerodynamics, I have experimented with and designed nylon grommets (open hole pad retainers) which optimize intonation and response on the flute. These are individually custom made for flutes and improve the intonation, response and volume of instruments.

Specifications for Padding

<u>PROCESSES</u>	<u>CUSTOM</u>	<u>SOUND</u>	<u>STRAUBINGER</u>	<u>SCHMIDT</u>
Non-abrasive cleaning	√	√	√	√
Mechanism corrosion removal	√	√	√	√
Tone hole undercut if appropriate-by agreement	√	√	√	√
Dent removal	√	√	√	√
Headjoint voicing If appropriate By agreement		√	√	√
Lubrication with appropriate viscosity lubricant	√	√	√	√
Tone hole leveling	√	√	√	√
Key alignment	√	√	√	√
Mechanism touch balanced to ensure rapid and smooth mechanical feel	√	√	√	√

Key rise adjusted to ensure best intonation	√	√	√	√
Part padding to assess sound with different pads	√	√	√	√
Pad stands / stabilizers	√	√	√	√
Waterproof paper shims (glued)	√	√		
Waterproof paper and Mylar shims (glued)	√	√		
Mylar shims (glued)			√	√
C and trill key pads set with shellac and shims	√	√	√	√
Adjustment of retainer washer and O retainer rings (grommets) to ensure non-distortion of pads	√	√	√	√
Custom nylon grommets			√	√

Adjustment Flutes with adjustment screws: Leather bumpers	√	√		
Paper and Mylar			√	√
Adjustment Non- adjustment screws: Adjustment Paper & Mylar			√	√
Final assessment Play testing Pneumatic testing	√	√	√	√

PRICING

Email comradem@cynetx.com for current pricing

Prices are dependent on what work must be done and the condition of the flute. A firm quotation will be given before work on flutes commences.