



Band & Orchestral Division



# Sales Manual

## Flutes

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## ■ Introduction

You'll find Yamaha instruments in the hands of musicians of all ages and levels all over the world.

Whether we are making a professional level instrument or a student model, the aim is to provide the musician with an instrument that sounds and plays as well as possible, is reliable, and is good for both the user and the environment.

Much like making music, crafting instruments is an art that requires dedication and a passion for perfection.

Through our art, we bring the instrument to form, through the musician's art, that form comes to life.

We take great pride in passing our art to musicians young and old, and watching them mature and bloom with the products we make.



# Yamaha's unique strengths

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## ■ Research & Development

Research and development is at the heart of Yamaha's musical instrument making and as a result, Yamaha holds thousands of both domestic and international patents.

Many of these patents were developed in Yamaha's Worldwide network of Ateliers where professional players and craftsmen come together to develop new ways to improve instruments.

These developments are then tried and tested before being introduced to Yamaha's standard production.



## ■ Dedicated Designers

Yamaha is the only wind instrument maker that maintains a complete staff of experienced, full-time designers for each individual wind instrument.

In close collaboration with many of the greatest musicians in the World, the ideas and insights we receive are incorporated into every instrument we make, from a piccolo to a tuba.

## ■ Tradition & Technology

Since building its first instrument in 1887, Yamaha has been committed to supporting total musical excellence in every instrument made.

This philosophy is applied throughout the Yamaha Corporation and embraces manufacturing facilities around the globe.

Over the years Yamaha have developed many new manufacturing processes.

Yamaha combines these new technologies with its knowledge of traditional craftsmanship and ensures that Yamaha instruments are not only made to the highest possible standards, but also maintain the 'soul' that only hand-crafting can impart on the instrument.

## ■ Artists

Played by many of the World's leading musicians, Yamaha instruments can be heard in some of the most prestigious venues and concert halls.

Yamaha is in a unique position to be able to work very closely with artists from all corners of the World and in 1987, Yamaha opened its first Atelier in Tokyo.

Since then it has opened Ateliers in New York, Los Angeles, Hamburg and Vienna giving Yamaha a global platform from which to collaborate with its artists.

Over the years, some of Yamaha's most significant developments have come from the musicians who play its instruments.

This very special two-way relationship allows Yamaha to have constant feedback and advice and means that Yamaha are constantly improving and developing its instruments.

## ■ Education

Yamaha's educational activities include a number of ground-breaking initiatives aimed at supporting and ensuring music continues to enrich people's lives long into the future.

One of the most innovative activities of recent years is Yamaha ClassBand where a school class becomes a symphonic wind band. An experience enjoyed by secondary school students, there are over 1,300 ClassBands to date with students learning to play an orchestral wind instrument within their normal class.

Alongside of this, Yamaha Music Schools are well established as promoting the enjoyment of making music together in a group with more than 5,000,000 students starting their musical life at a Yamaha Music School.

The continuation of support as musicians progress is also an important part of Yamaha's philosophy and the Yamaha Music Foundation of Europe is the perfect

example of this. Providing scholarships to students in higher education, this programme helps to support musicians as they continue their studies at Conservatories and Universities across Europe.

No other manufacturer does more than Yamaha to promote music through education. And no other company is more committed to excellence.



## ■ Support

Yamaha proudly supports a number of initiatives throughout the World to help promote music making.

Whether it is helping students take their first musical breath or by supplying a concert marimba for the World Marimba Competition, encouraging and supporting music making is one of Yamaha's highest priorities and something that is an integral part of the way Yamaha works.

Yamaha has many partners and works with both established organisations such as the European Brass Band Association and the European Union Youth Orchestra as well as young talented musicians who are just starting their musical journey.

This is at the heart of Yamaha's philosophy and something that epitomises the Yamaha's commitment to music.

## ■ Environment

The future of our children depends upon how we treat the World today. That is why we spend time considering how we can manufacture our instruments in an ethical and environmentally friendly way.

For example, the Yamaha Corporation continues to develop its reforestation initiative, the "Yamaha Forest". Now entering the 2nd phase, in the first 5 years 115,110 saplings over 127 hectares were planted with a further 14,000 saplings of 18 different varieties of trees to be planted in 2012.

Alongside of this commitment, Yamaha also pioneered the use of lead free solder in wind instruments. This was a major breakthrough in the manufacture of brass and woodwind instruments and enabled Yamaha to remove the use of potentially hazardous elements from production.

All of this is part of Yamaha's on-going commitment to the environment.

**LEAD FREE SOLDER**

## Student Flutes

# YFL-2xx/3xx series



### ■ The success story continues

Yamaha student flutes are the best-selling student flutes in the world. They have been designed to meet the specific needs of beginners and to be of the highest quality for learning on, as nothing is more frustrating than trying to learn to play on a poor quality instrument.

Well designed and built to the highest standards, Yamaha student line flutes have ergonomically shaped keys and precisely assembled pads, providing the perfect balance and a natural touch.

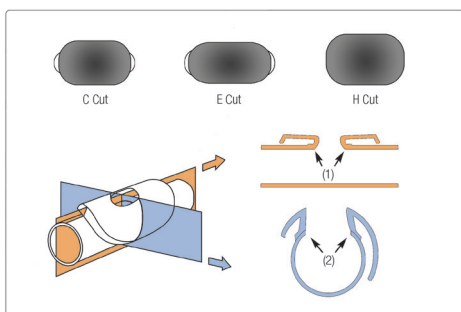
The most important factor however, is the headjoint. Our CY headjoint is considered to be the best for beginners and amateur players. With its relatively small embouchure-hole and the unique Y-taper of the tube, it helps the

player to get a good quality flute sound with ease. The light resistance and quick response are ideal for producing a centered sound with precise intonation. These are all essential ingredients to building the right embouchure, developing a good ear and playing with musicality.

- Made from durable nickel silver
- Silver plated
- **Unique CY headjoint**
- C footjoint
- YFL-3xx includes a Sterling silver headjoint enhancing tonal performance and colour
- Case: FLC-220 with FLB-200E bag (with shoulder strap)

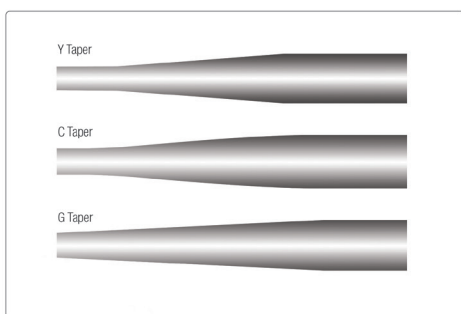
# YFL-2xx/3xx series Key Features

## “C cut” embouchure hole



The relatively small embouchure hole provides a light resistance while the special undercuts (1) and (2) ensure a free blowing feel.

## “Y taper”



Features a small bore for light resistance and quick response. The 2-step taper facilitates free middle and high register.

Model	Key Type	Key System	Split E Mechanism	B footjoint	Headjoint	Feature
YFL-211	Covered keys	Offset G	Included	No	Nickel silver	
YFL-211SL	Covered keys	Offset G	Included	No	Nickel silver	Silver lip-plate
YFL-221	Covered keys	Offset G	No	No	Nickel silver	
YFL-261	Ring keys	Offset G	No	No	Nickel silver	
YFL-271	Ring keys	Offset G	Included	No	Nickel silver	
YFL-271SL	Ring keys	Offset G	Included	No	Nickel silver	Silver lip-plate
YFL-281	Ring keys	In-line	No	No	Nickel silver	
YFL-311	Covered keys	Offset G	Included	No	Solid silver	
YFL-321	Covered keys	Offset G	No	No	Solid silver	
YFL-361	Ring keys	Offset G	No	No	Solid silver	
YFL-371	Ring keys	Offset G	Included	No	Solid silver	
YFL-371H	Ring keys	Offset G	Included	Yes	Solid silver	
YFL-381	Ring keys	In-line	No	No	Solid silver	
YFL-381H	Ring keys	In-line	No	Yes	Solid silver	

## Intermediate Flutes

# YFL-4xx series



YFL-411

### More than just an inexpensive version of our professional flutes...

The 4xx series are designed for advanced students and mature amateurs playing in orchestras, wind bands and ensembles, or simply for their own pleasure. These flutes feature the famous CY head joint, known world-wide as the best headjoint for beginners and amateurs.

The light resistance and quick response are ideal for producing a centred sound with precise intonation. The robust yet comfortable keywork is hand-assembled and adjusted for perfect balance and touch. With a little bit more resistance due to the sterling silver headjoint and body, the 4xx series offers advanced players excellent response and tonal qualities.

- Sterling silver head joint and body, silver plated
- Nickel silver keys, silver plated
- Drawn and curled toneholes
- **CY headjoint**, sterling silver, 0.38 mm
- Standard wall thickness 0.38 mm
- Traditional pads
- Stainless steel springs
- Case: FLC-200C with FLB-400E II cover

### Case



FLC-200C with FLB-400E II cover

Model	Key Type	Key System	Split E Mechanism
YFL-411	Covered keys	Offset G	Included
YFL-421	Covered keys	Offset G	No
YFL-461*	Ring keys	Offset G	No
YFL-471*	Ring keys	Offset G	Included
YFL-481*	Ring keys	In-line	No

YFL-461/471/481 models are available with a B footjoint; add H to the model number when ordering.



# NEW 5, 6 and 7 Series Professional Flutes



## ■ Freedom of expression, inspired by our handmade flutes

Yamaha's new 5, 6 and 7 series flutes set new standards for musicality, craftsmanship and expression.

Inspired by Yamaha's handmade gold and silver flutes, this new series of flutes benefits from the technical knowledge of some of the most gifted artisans in the world whose understanding of the flute comes from working closely with some of the finest flutists in the world.

There have been a number of significant improvements made to the new instruments. The new Type AM headjoint opens up huge opportunities

for musicality that brings Yamaha's professional flutes to the forefront.

When coupled with the new sound annealing process, this gives the whole range new possibilities for expression with an easier response and excellent balance.

Add to this a new heavy wall thickness\* and Straubinger™ Phoenix\* pads, these phenomenal instruments give flutists the musical capabilities that you would only expect to hear from a handmade instrument.

\*Only on YFL-6x7 and YFL-7x7 series flutes.

## Key Advantages

■ **New Type AM headjoint**  
provides high degree of freedom for musical expression

■ **Sound Annealing**  
is a special heat treating process for a quicker, more lively response

■ **Increased Wall Thickness**  
gives slightly more resistance and more musical flexibility (YFL-6x7/7x7)

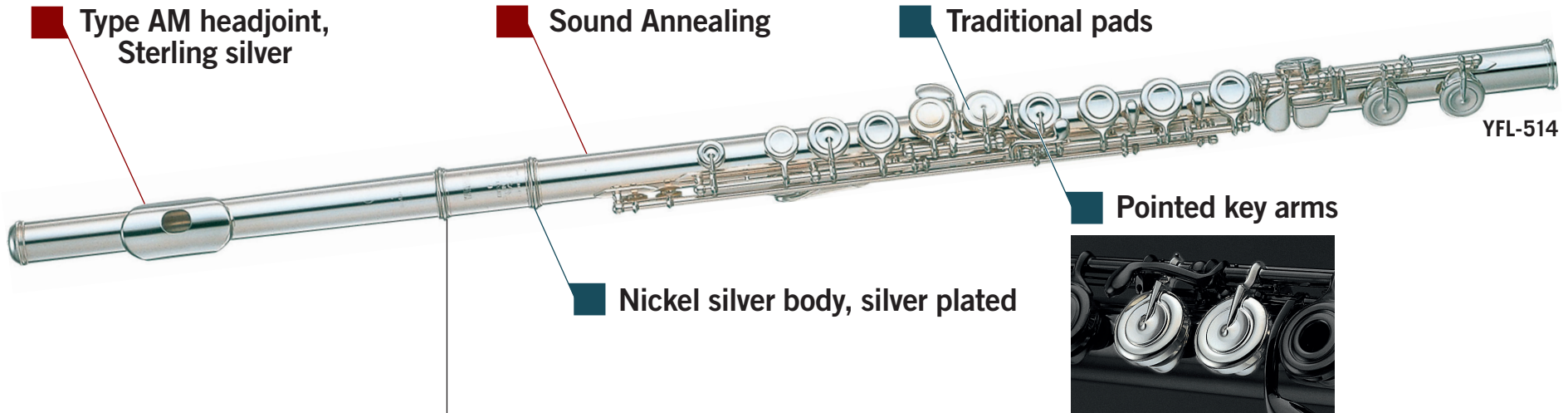
■ **Straubinger™ Phoenix Pads**  
improve quicker response and clear sound timbre (YFL-6x7/7x7)

## ■ Differences at a glance

Model	Headjoint			Body		Keywork		
	Type	Material	Thickness	Material	Weight/Thickness	Keys	Pads	Springs
YFL-5x7	AM	Sterling silver	0.38mm	Nickel silver, silver plated	Standard/0.40mm	Nickel silver, silver plated	Traditional	Stainless
YFL-6x7	AM	Sterling silver	0.38mm	Sterling silver, silver plated	Standard/0.43mm	Nickel silver, silver plated	Straubinger™ Phoenix	Stainless
YFL-7x7	AM	Sterling silver	0.38mm	Sterling silver, silver plated	Standard/0.43mm	Sterling silver, silver plated	Straubinger™ Phoenix	White gold

# NEW Professional Flutes

## YFL-5x7 series



YFL-514

### Encouraging progress

Yamaha YFL-5x7 series flutes offer a professional level flute with a well balanced resistance, a rich, warm tone and excellent projection.

The new Type AM sterling silver headjoint makes this instrument excellent value for money and is perfect for players who really want to progress their playing.

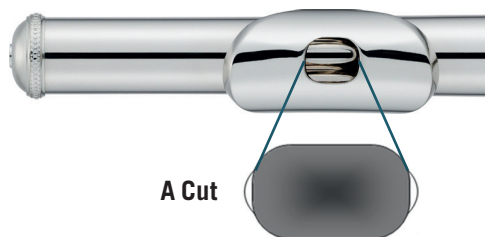
- Sterling silver head joint, silver plated
- Pointed key arms
- Nickel silver body and keys, silver plated
- Drawn and curled toneholes
- **Type AM headjoint**, Sterling silver, 0.38 mm
- **Sound annealing**
  - Standard wall thickness 0.40 mm
  - Traditional pads, professional
  - Stainless steel springs
- Case: FLC-200C with FLB-65II cover

### What's new

Former Series YFL-5x4	Specification	New Series YFL-5x7	Advantage
EC-type	Headjoint	<b>Type AM</b>	Well balanced resistance, easier high register; colourful sound and wide dynamic spectrum
No	Sound annealing	<b>Yes</b>	Quicker, more lively response

# YFL-5x7 series Key Features

## ■ Type AM headjoint



The new Type AM headjoint was developed together with our new 9x7 and 8x7 handmade flute series. It features a well balanced resistance over the whole range and enables the flutist to produce a colourful sound in a wide dynamic spectrum.

## ■ Case



FLC-200C with FLB-65II cover

Model	Key Type	Key System	Split E Mechanism
YFL-517	Covered keys	Offset G	Included
YFL-577	Ring keys	Offset G	Included
YFL-587	Ring keys	In-line	No

## ■ C / B footjoint

B footjoint



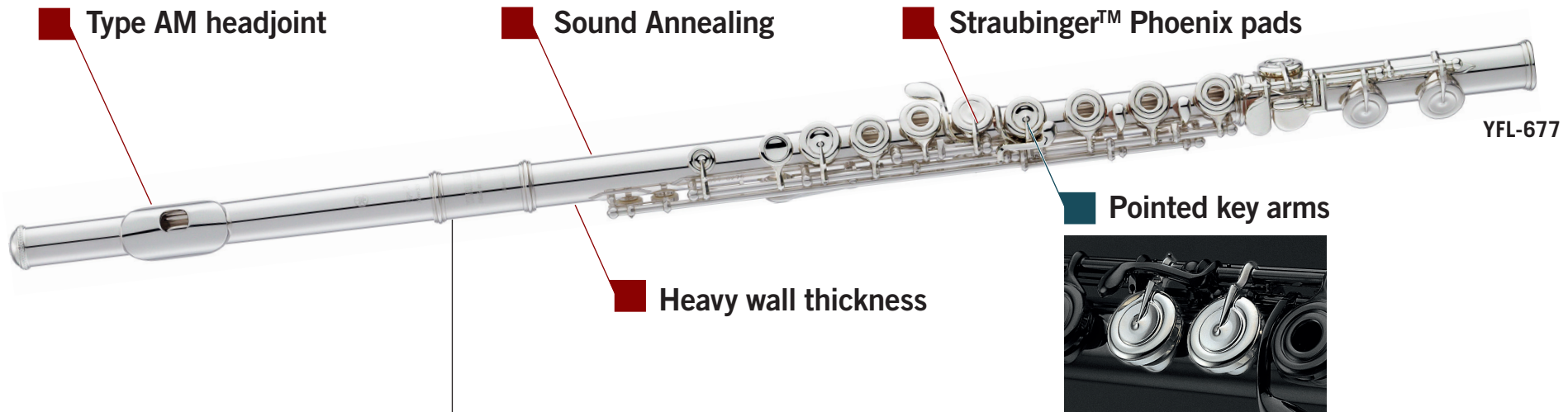
C footjoint



All models are available with a B footjoint; add H to the model number when ordering.

# NEW Professional Flutes

## YFL-6x7 series



### For advanced players who want to grow

The YFL-6x7 series benefits from a heavy type wall thickness and Straubinger™ Phoenix pads that give the player more room to express themselves.

The new Type AM sterling silver headjoint and body give advanced players everything they need to really develop their own sound and grow as a musician.

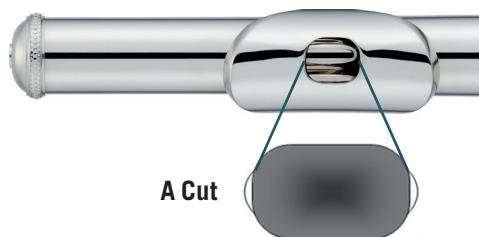
- Sterling silver head joint and body, silver plated
- Pointed key arms
- Drawn and curled toneholes
- Nickel silver keys, silver plated
- **Type AM headjoint**, Sterling silver
- **Heavy wall thickness 0.43 mm**
- **Sound annealing**
- **Straubinger™ Phoenix pads**
- Stainless steel springs
- Case: FLC-654 with FLB-65II cover

### What's new

Former Series YFL-6x4	Specification	New Series YFL-6x7	Advantage
EC-type	Headjoint	<b>Type AM</b>	Well balanced resistance, easier high register; colourful sound and wide dynamic spectrum
Standard 0.38 mm	Wall thickness	<b>Heavy 0.43 mm</b>	Slightly more resistance, gives more musical flexibility
No	Sound annealing	<b>Yes</b>	Quicker, more lively response
Traditional pads	Pads	<b>Straubinger™ Phoenix</b>	More precise padding and stable adjustment; harder surface, improves quicker response and clear sound timbre

# YFL-6x7 series Key Features

## ■ Type AM headjoint

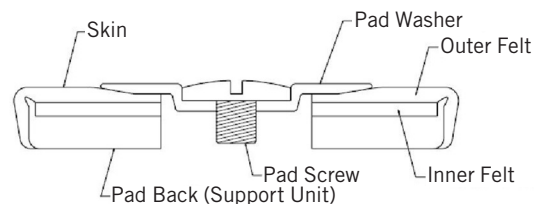


The new Type AM headjoint was developed together with our new 9x7 and 8x7 handmade flute series. It features a well balanced resistance over the whole range and enables the flutist to produce a colourful sound in a wide dynamic spectrum.

## ■ Increased wall thickness

Increasing the wall thickness from standard 0.38mm to 0.43mm gives slightly more resistance, more core to the sound and more musical flexibility.

## ■ Straubinger™ Phoenix pads



The use of Straubinger™ Phoenix pads allows for more precise padding and stable adjustment. The harder surface gives a quick response and offers a clear sound timbre.

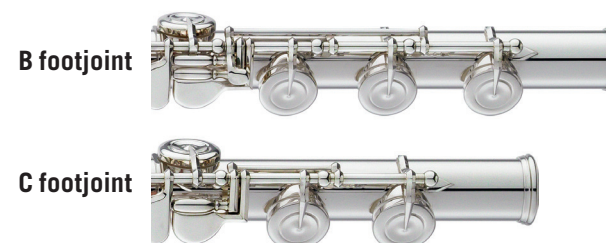
## ■ Case



**FLC-654**  
with **FLB-65II** cover

Model	Key Type	Key System	Split E Mechanism
YFL-617	Covered keys	Offset G	Included
YFL-677	Ring keys	Offset G	Included
YFL-687	Ring keys	In-line	No

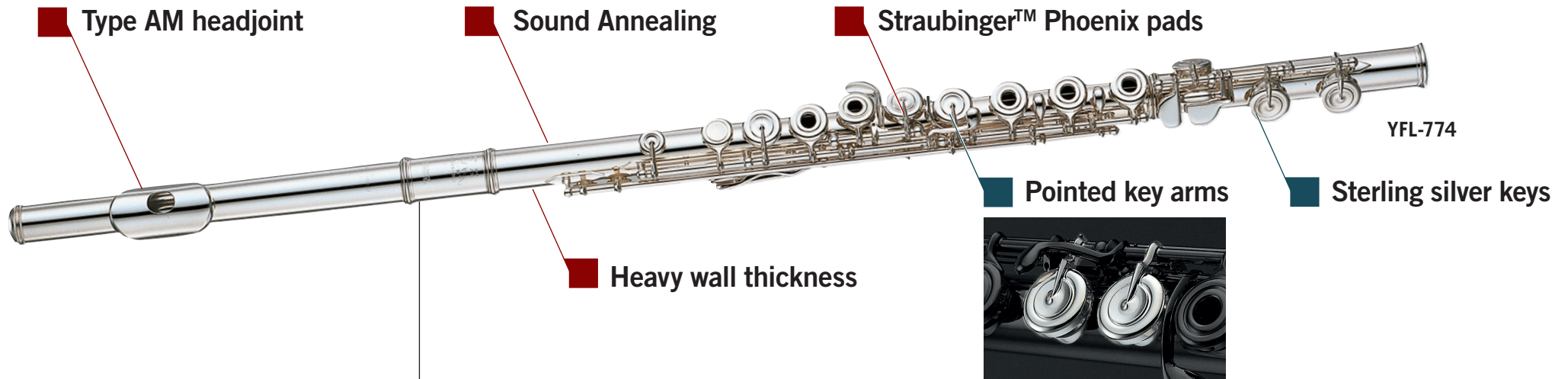
## ■ C / B footjoint



All models are available with a B footjoint; add H to the model number when ordering.

# NEW Professional Flutes

## YFL-7x7 series



### ■ Prioritising performance

With a sterling silver head, body and keywork, the 7x7 series is perfect for those who want to develop their performances.

The flagship model of Yamaha's professional flute range features the new Type AM sterling silver headjoint and Straubinger™ Phoenix pads for a colourful sound whilst the heavy wall thickness and sterling silver keys give a wide dynamic spectrum and projection which allows players to give performances full of utmost expressiveness.

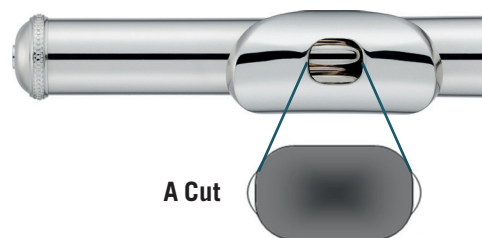
- Sterling silver head joint, body and keys, silver plated
- Pointed key arms
- Drawn and curled toneholes
- **Type AM headjoint**, Sterling silver
- **Heavy wall thickness 0.43 mm**
- **Straubinger™ Phoenix pads**
- **White gold springs**
- Case: FLC-654 with FLB-65II cover

### ■ What's new

Former Series	Specification	New Series	Advantage
YFL-7x4	EC-type	YFL-7x7	
	Headjoint	<b>Type AM</b>	Well balanced resistance, easier high register; colourful sound and wide dynamic spectrum
Standard	Wall thickness	<b>Heavy 0.43 mm</b>	Slightly more resistance, gives more musical flexibility
Traditional pads	Pads	<b>Straubinger™ Phoenix</b>	More precise padding and stable adjustment; harder surface, improves quicker response and clear sound timbre

# YFL-7x7 series Key Features

## ■ Type AM headjoint

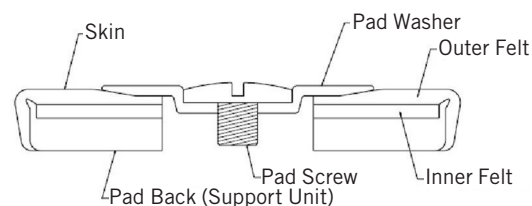


The new Type AM headjoint was developed together with our new 9x7 and 8x7 handmade flute series. It features a well balanced resistance over the whole range and enables the flutist to produce a colourful sound in a wide dynamic spectrum.

## ■ Increased wall thickness

Increasing the wall thickness from standard 0.38mm to 0.43mm gives slightly more resistance, more core to the sound and more musical flexibility.

## ■ Straubinger™ Phoenix pads



The use of Straubinger™ Phoenix pads allows for more precise padding and stable adjustment. The harder surface gives a quick response and offers a clear sound timbre.

## ■ Case



Model	Key Type	Key System	Split E Mechanism
YFL-717	Covered keys	Offset G	Included
YFL-777	Ring keys	Offset G	Included
YFL-787	Ring keys	In-line	No

## ■ C / B footjoint

**B footjoint**



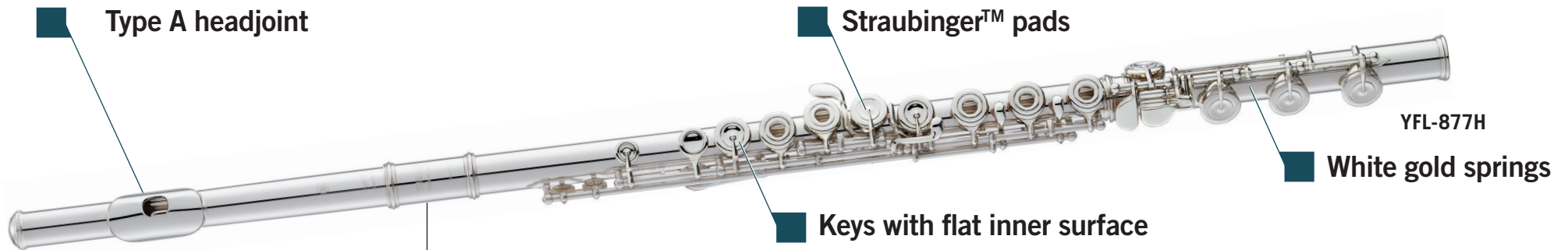
**C footjoint**



All models are available with a B footjoint; add H to the model number when ordering.

# Handmade Silver Flutes

## YFL-8x7 series



### Unsurpassed innovation

Yamaha's handmade flute range offer performers a wide range of expression with the tone and volume that flutists have long desired. High quality materials, crafted by specialist flute technicians make these flutes a great choice for professional flutists.

- Sterling silver head joint, body and keys, without plating
- Soldered and undercut toneholes
- Pointed key arms
- **Keys with flat inner surface**
- **Type A headjoint** (handmade), sterling silver
- Wall thickness 0.38 mm
- **Straubinger™ pads**
- **White gold springs**
- Case: FLC-87CS (FLC-87CL for YFL-817) with FLB-85II cover

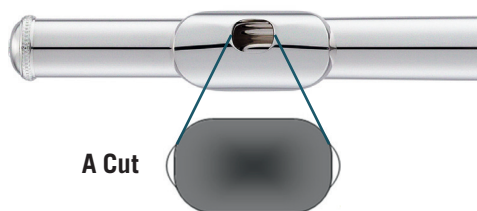
### What's new

Former Series YFL-8x4	Specification	New Series YFL-8x7	Advantage
EC-type (handmade)	Headjoint	<b>Type A (handmade)</b>	Well balanced resistance, easier high register; colourful sound and wide dynamic spectrum
Traditional pads	Pads	<b>Straubinger™</b>	Very precise padding and stable adjustment; harder consistency ensures immediate response and clear sound timbre



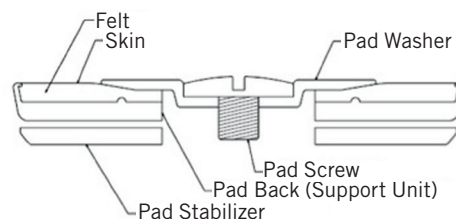
# YFL-8x7 series Key Features

## ■ Type A headjoint



The new “Type A” headjoint enables the flutist to produce an easy yet colourful sound and still play using a wide dynamic range. The newly designed lip plate promotes efficient playing technique and provides optimal resistance when paired with the new handmade flute body. The “Type A” headjoint provides a high degree of freedom for musical expression and has been praised by many players for its rich and clear sound, which is distinctive even at pianissimo.

## ■ Straubinger™ pads



The use of Straubinger™ pads allow for very precise padding and stable adjustment. The harder consistency gives a quick response and offers a clear sound timbre.

## ■ Case



## The Straubinger™ Flute Pad Assembly



Straubinger™ pads have been widely adopted as significant components of a high quality handmade flute because of their clear response and optimal resonance. Straubinger™ pads are more tolerant of environmental change and remain in top playing condition for a longer period of time.

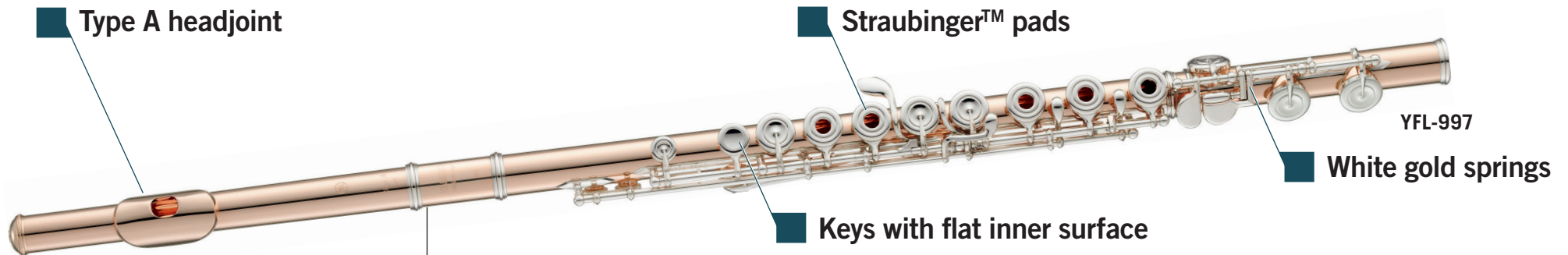
A Yamaha Handmade flute with Straubinger™ pads enables the player to achieve a clear response with a more resonant sound.

Model	Key Type	Key System	Split E Mechanism
YFL-817	Covered keys	Offset G	Included
YFL-877	Ring keys	Offset G	Included
YFL-887	Ring keys	In-line	No
YFL-897	Ring keys	In-line	Included

All models are available with a B footjoint; add H to the model number when ordering.

# Handmade Gold Flutes

## YFL-9x7 series



### Unsurpassed innovation, top-of-the-line handmade gold flutes

Yamaha's top of the line handmade gold flutes offer a rich, deep tone with outstanding presence. These fine instruments offer professional flutists new levels of musical expression whether in an orchestral setting or as a soloist.

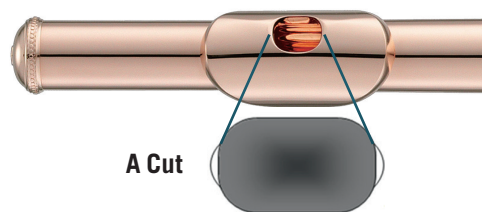
- Choice of 9K / 14K / 18K gold flutes
- Diverse combinations from silver keys on gold body up to full gold models
- Soldered and undercut toneholes
- Pointed key arms
- Keys with flat inner surface
- Type A headjoint (handmade), 9K / 14K / 18K gold, increased wall thickness 0.43 mm (9K / 14K), 0.35 mm (18K)
- Wall thickness 0.30 mm (14K 7 18K), 0.35 mm (9K)
- Straubinger™ pads
- White gold springs
- Case: FLC-97CS (FLC-97CL for YFL-917) with FLB-98II cover

### What's new

Former Series	Specification	New Series	Advantage
YFL-9x4		YFL-9x7	
EC-type (handmade)	Headjoint	Type A (handmade)	Well balanced resistance, easier high register; colourful sound and wide dynamic spectrum
Traditional pads	Pads	Straubinger™	Very precise padding and stable adjustment; harder consistency ensures immediate response and clear sound timbre

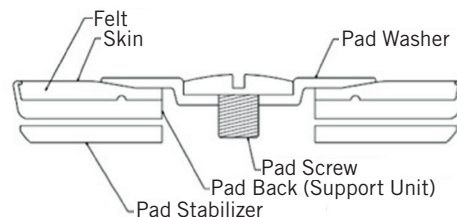
# YFL-9x7 series Key Features

## ■ Type A headjoint



The new "Type A" headjoint enables the flutist to produce an easy yet colourful sound and still play using a wide dynamic range. The newly designed lip plate promotes efficient playing technique and provides optimal resistance when paired with the new handmade flute body. The "Type A" headjoint provides a high degree of freedom for musical expressions and has been praised by many players for its rich and clear sound, which is distinctive even at pianissimo.

## ■ Straubinger™ pads



The use of Straubinger™ pads allow for very precise padding and stable adjustment. The harder consistency gives a quick response and offers a clear sound timbre.

## ■ Case



## The Straubinger™ Flute Pad Assembly



Straubinger™ pads have been widely adopted as significant components of a high quality handmade flute because of their clear response and optimal resonance. Straubinger™ pads are more tolerant of environmental change and remain in top playing condition for a longer period of time.

A Yamaha Handmade flute with Straubinger™ pads enables the player to achieve a clear response with a more resonant sound.

Model	Key Type	Key System	Split E Mechanism
YFL-917	Covered keys	Offset G	Included
YFL-977	Ring keys	Offset G	Included
YFL-987	Ring keys	In-line	No
YFL-997	Ring keys	In-line	Included

All models are available with a B footjoint; add H to the model number when ordering.

# YFL-8x4MV – Merveille Series



YFL-894MVH

## Stretching the bounds of musical expression

Vibrant, bright, tone colours set MV series flutes apart from others in Yamaha's range. The endless amounts of expression that these flutes offer mean that these instruments are ideal as an instrument for soloists.

- Sterling silver head joint, body and keys, silver plated
- Soldered and undercut toneholes
- Pointed key arms
- Left Hand Pinless System improves high F and F#
- Type M headjoint (handmade), Sterling silver
- Wall thickness 0.35 mm
- Traditional pads
- White gold springs
- Case: FLC-85-2 with FLB-85II cover

## Case



FLC-85-2 with FLB-85II cover

Model	Key Type	Key System	Split E Mechanism
YFL-874MV	Ring keys	Offset G	Included
YFL-884MV	Ring keys	In-line	No
YFL-894MV	Ring keys	In-line	Included

All models are available with a B footjoint; add H to the model number when ordering.

# YFL-9x4MV – Merveille Series



YFL-994BMV

## An entire masterpiece

These models are like an artist's palette, allowing the musician to create limitless variations and gradations in tone, with colour drops of sound that evolve, grow organically and finally come together as an entire masterpiece.

- Choice of 14K / 18K gold flutes
- Diverse combinations from silver keys on gold body up to full gold models
- Soldered and undercut toneholes
- Pointed key arms
- **Type M headjoint** (handmade), 14K / 18K gold
- Wall thickness 0.28 mm
- Traditional pads
- White gold springs
- Case: FLC-95-2 with FLB-95II cover

## Case



FLC-95-2 with FLB-95II cover

Model	Key Type	Key System	Split E Mechanism
YFL-974MV	Ring keys	Offset G	Included
YFL-984MV	Ring keys	In-line	No
YFL-994MV	Ring keys	In-line	Included

All models are available with a B footjoint; add H to the model number when ordering.

## Handmade Wooden Flutes

# YFL-8x4W series



YFL-894WH

YFL-874W

### ■ The warm natural sound of fine grenadilla wood

With the carrying power of a silver flute, the Yamaha handmade wooden flutes are suitable not just for solo and chamber music, but also for use in a modern symphony orchestra.

Their remarkable tonal projection is the result of the state of the art Type 4 scale, Yamaha's unique Type EW headjoint and the specially designed toneholes, which are the same size as on metal flutes.

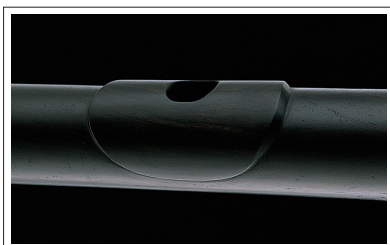
- Grenadilla head joint and body
- Sterling silver keys, silver plated
- Pointed key arms
- Inset grenadilla toneholes with undercut
- Type EW headjoint (handmade), Type HW headjoint available as alternative (special order)
- Wall thickness 3.00 mm
- White gold springs
- Case: FLC-85WS (FLC-85WL for YFL-814W)

Model	Key Type	Key System	Split E Mechanism
YFL-894W	Ring keys	In-line	Included
YFL-874W	Ring keys	Offset G	Included
YFL-814W	Covered keys	Offset G	Included

All models are available with a B footjoint; add H to the model number when ordering.

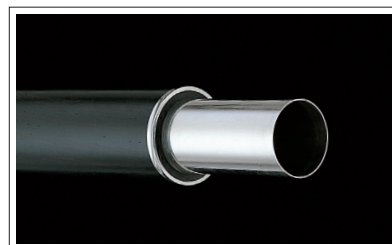
# YFL-8x4W series Key Features

## ■ Lip plate



The lip plate and headjoint body are sculpted out of a single piece of fine African granadilla for a pure, natural resonance. The surface of the lip plate is extremely comfortable and provides secure control.

## ■ Silver Tenon



A silver tenon fits the headjoint into the body, just as with a silver flute. This adds focus to the sound. It also helps to considerably reduce the weight of the flute.

## ■ Joint



A similar silver tenon inside the footjoint connector reduces weight and prevents cracking. It also adds tonal body for improved projection.

## ■ Tone holes



The tone holes are precision-crafted of inset granadilla which allows wider sized holes like those of metal flutes. This is another factor contributing to the flute's accurate intonation and tonal clarity.

## ■ Case



FLC-85WS

# Piccolo Flutes

## YPC-9/8 series



YPC-91



YPC-81



Wave Cut Headjoint

### Yamaha, the most comprehensive piccolo maker

The latest addition to our line-up is the Maurizio Simeoli model **YPC-91MS**. Under his supervision Yamaha designed a new wave cut wood headjoint where the surface and internal shape of the embouchure hole were redesigned, resulting in a clear tone, a wider dynamic range and rich resonance.

This is the first Yamaha wood piccolo that uses cork for its all pads and also has a new bore shape for great projection in all registers and an improved playing feel. For a more brilliant sound and projection the **YPC-92MS** comes with a sterling silver headjoint.

The **YPC-91** is handmade by our most gifted artisans. It has been developed in cooperation with some of the world's leading musicians. It features a headjoint and body of select, carefully seasoned grenadilla wood.

The **YPC-81** is one of the best choices for an advanced piccolo student or professional player. With a headjoint made of Sterling silver, the **YPC-82** lets players swap between piccolo and flute with ease. These instruments have a bright focused tone and exceptional projection.

	YPC-92MS	YPC-91MS	YPC-92	YPC-91	YPC-82	YPC-81*
<b>Headjoint</b>	Sterling silver	Grenadilla	Sterling silver	Grenadilla	Sterling silver	Grenadilla
<b>E-Mechanism</b>	Included		Included		Included	
<b>Keys</b>	Sterling silver		Sterling silver		Nickel silver (silver plated)	
<b>Body</b>	Grenadilla		Grenadilla		Grenadilla	
<b>Toneholes</b>	Undercut		Undercut		Undercut	
<b>Springs</b>	White Gold		White Gold		Stainless Steel	
<b>Pads</b>	Cork		Double Bladder		Double Bladder	
<b>Cases</b>	PCC-91		PCC-91		PCC-81	

\*also available with with Wave Cut (Reform) Headjoint as YPC-81R



## YPC-62/32 series



YPC-32



YPC-62R

### Wave cut headjoint



Wave Cut Headjoint

The **YPC-62** Series are professional wooden piccolos that are excellent for those really serious about developing the piccolo aspect of their playing. Ideal for the progressing student, these instruments are characterised by their excellent intonation and playability.

The ABS resin body and silver plated headjoint makes the **YPC-32** ideal for amateurs and doublers who are looking for a free blowing, durable piccolo with excellent intonation.

	YPC-62*	YPC-62M	YPC-32
<b>Headjoint</b>	Grenadilla	Nickel silver (silver plated) with silver lip plate	Nickel silver (silver plated)
<b>E-Mechanism</b>	Included	Included	Included
<b>Keys</b>	Nickel silver (silver plated)	Nickel silver (silver plated)	Nickel silver (silver plated)
<b>Body</b>	Grenadilla	Grenadilla	ABS resin
<b>Toneholes</b>	Straight	Straight	Straight
<b>Springs</b>	Stainless Steel	Stainless Steel	Stainless Steel
<b>Pads</b>	Double Bladder	Double Bladder	Double Bladder
<b>Cases</b>	PCC-62	PCC-62	PCC-32

\*also available with with Wave Cut (Reform) Headjoint as YPC-62R

## Alto Flutes

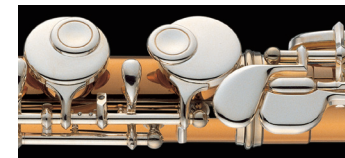
# YFL-A421



YFL-A421

YFL-A421U

### Key Design



Key shapes are designed to provide a natural position for the fingers.

### ■ One of the most sought-after alto flutes in the world

Yamaha's YFL-A421 is one of the most sought-after alto flutes in the world. It is characterised by an agile response and precise intonation, but its best feature is its warm, beautiful sound.

Yamaha's unique experience with the various alloys used in brass instruments led to the discovery that

gold-brass is the perfect material for optimum tone, weight, and playability of an alto flute. The gold-brass gives a rich sound full of tonal colours, and the flute is much more comfortable to hold and play than traditional alto flutes, being considerably lighter.

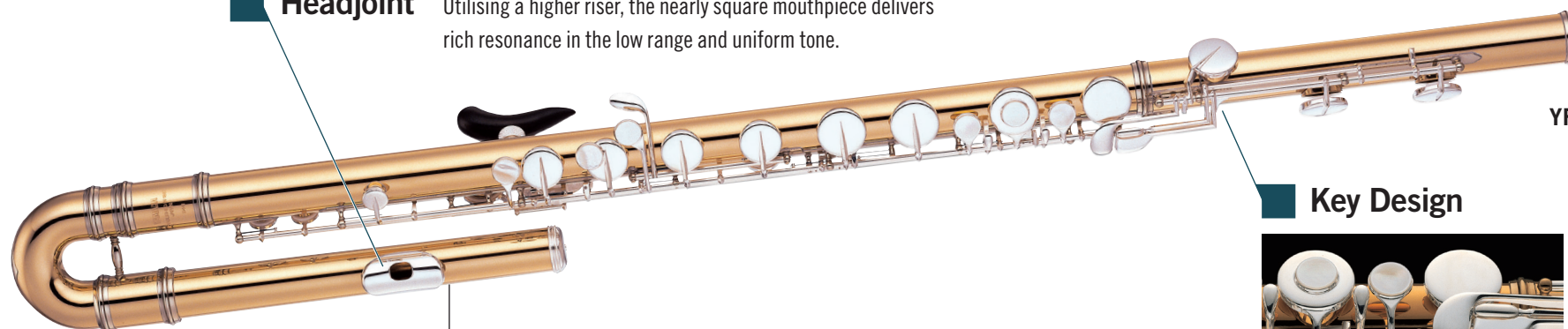
- Gold-brass head joint and body, clear lacquered
- Nickel silver keys, silver plated
- Drawn and curled toneholes
- Gold-brass headjoint with sterling silver lip plate and riser
- YFL-A421 with straight headjoint
- YFL-A421U with curved headjoint
- Double bladder pads
- Stainless steel springs
- Case: FLC-A40 with FLB-A41 cover

## Bass Flute

# YFL-B441

## Headjoint

Utilising a higher riser, the nearly square mouthpiece delivers rich resonance in the low range and uniform tone.



YFL-B441

## Key Design



Key shapes are designed to provide a natural position for the fingers.

## Quick response and a rich, beautiful tone

The YFL-B441 bass flute is made from gold-brass and features a quick response, rich, beautiful tone, and accurate intonation.

This instrument is much lighter and easier to hold than traditionally made bass flutes due to the use of gold-brass. The bass flutes are often used in flute ensembles and studio recordings and orchestras.

- Gold-brass head joint and body, clear lacquered
- Nickel silver keys, silver plated
- Drawn and curled toneholes
- Gold-brass headjoint with sterling silver lip plate and riser
- Leather pads
- Stainless steel springs
- Case: FLC-B40 with FLB-B41 cover

## Case



**FLC-B40**  
with **FLB-B41** cover

# Glossary

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**ABS (Acrylonitrile Butadiene Styrene) resin**

Hard, lightweight durable plastic material.

**Sound Annealing** A precise heat-treating process that, in non-ferrous metals such as brass, alters the grain shapes of the molecules. The desired effect is a quicker, more lively response.

**Clear lacquer** An electrostatically applied epoxy (resin) coating to protect the finish of brass bodied instruments.

**Conical bore** The tubing is tapered. Oboes and bassoons have conical bores, piccolos have a reverse conical bore.

**Cylindrical bore** The instrument's tubing is straight, not tapered. Flutes and clarinets have cylindrical bores.

**Drawn tone holes** The instrument's tone holes are drawn from the same tubing as the body.

**Double bladder pads** Yamaha flutes and clarinets have a double layer of skin across the felt for a better seal and improved durability.

**Embouchure hole** The opening a player must blow across to produce a note.

**Gold** Yamaha flutes offer a choice of 9K, 14K and 18K gold.

**Gold-lacquer** On some models, Yamaha uses a special tinted lacquer, which gives an appearance similar to gold plating.

**Grenadilla** A very dense, heavy wood which can be accurately machined. Used for clarinet, flute, piccolo and oboe bodies.

**In-line keys** The configuration in which the keys on flutes are aligned in a straight line.

**Nickel Silver** An alloy comprised of approximately 70% copper, 20% zinc, and (coin silver) 10% nickel. Used on student flutes and most woodwind instrument keys.

**Offset G** The G and G# left-hand keys are offset allowing for a more comfortable hand position than an in-line key system.

**Pointed key arms** A traditional design in which the key arm extends to the middle cup & arm of the key, for quicker key response.

**Soldered tone holes** The tone holes are not part of the body tubing; they are separate parts soldered on. The thickness of the tone hole chimney wall can be precisely controlled. These can also be undercut for better intonation.

**Split E mechanism** A flute/piccolo key mechanism that closes the lower of the two G pad cups when fingering high E. This mechanism gives the correct venting for high E and dramatically improves response on this note.

**Stainless steel** Unaffected by moisture (rust-proof); stainless steel springs offer responsive key action. All our student model woodwind instruments use stainless springs.

**Sterling silver** Silver which is 92.5% pure. Signified on our flutes by "925".

**Undercut embouchure hole** On our flute head-joints, the bottom of the embouchure hole is flared to smooth the transition into the bore improving tone and response by reducing turbulence. It also enhances the high register.

**Undercut tone holes** Undercutting refers to a reverse taper in each tone hole (larger at the bore than at the outside). Altering the shape of the tone hole affects response, tone colour, intonation and flexibility. It is part of an overall design that includes bore shape and size, tone hole size, and tone hole placement. Undercut tone holes have an angled entry to the bore of the instrument.

**White gold springs** Provide a quicker key response with reduced spring tension. Used on some professional model flutes and all handmade model flutes.