YAMAHA

# Innovation that inspires
# New Custom *Xeno* Series Trumpets

# Content


3 Introduction and Development Story
4 The History of Xeno
5 Xeno through the years
6 Design concept and related new specifications
7 Detailed information about Key features
8 Xeno Trumpet YTR-8335 / YTR-8345
9 Xeno Trumpet YTR-8335R / YTR-8345R
10 Case and Accessories
11 What's new

## Introduction and Development Story

Our R&D specialists have a passion for innovation and drive for perfection. They communicate with artists who are at the forefront of musical culture through Yamaha's unique worldwide Atelier network.

During development we held test sessions with artists from the USA, Europe and Japan. The artists belong to some of the leading Symphony Orchestras from around the world including New York, Tokyo, Cincinnati, Hamburg and professional Wind and Military Bands in the UK and Japan.

At the same time we also tested with world class Jazz and Studio artists.

During test sessions it became clear that the new Xeno Models are trumpets that inspire. Their outstanding power and projection combines with refined resistance and response for extraordinary tonal flexibility. Xeno trumpets continue to evolve with the artists who play them, towards the ultimate goal of ideal musical expression.

## Designers

**Katsuhiko Furumi**
(R&D Japan)

The main objective I sought as a trumpet designer was that the sound had a strong 'core' and was brighter so the player can easily play from pp to ff as they imagine. This instrument can create beautiful sounds, has wonderful response and we reached the goal that we originally imagined.

**Bob Malone**
(Atelier USA)

This trumpet is the result of research into the sound of vintage trumpets and understanding the needs of these players by giving them a greater expanse of colour possibilities, a much richer sound palette and a much easier upper register.

**Thomas Lubitz**
(Atelier Hamburg)

The previous Xeno was not an easy instrument to improve on, but the new generation has surpassed all expectations of musical capabilities and has everything that modern trumpet players are looking for.

# The History of Xeno

Driven by designers with a strong passion to create an instrument that would be played in orchestras around the world, the Xeno trumpet series was born in 1990.

"Xeno" is a Greek word that can mean "from the outside" or "foreign". Our designers had poured their passion and dedication into a new instrument that would be able to compete in the most acclaimed orchestras worldwide, and that effort was realised in 1986 when the YTR-8335HS, Yamaha's first heavy-weight model and the immediate forerunner of the Xeno series, was released globally.

The YTR-8335HS was a success, highly valued for its ability to blend in an orchestral setting while maintaining a distinctive, powerful tone. Our experience with that instrument was combined with feedback from players and applied to the development of the YTR-8335US, which became the first model to actually bear the "Xeno" name.

Consistent with the "Xeno" designation, top players and technicians from the United States, United Kingdom and other countries participated in countless prototype tests as well as the production of countless parts. Testing went right down to the molecular level with new materials, parts production methods, rigidity and tonal qualities all on the agenda. All of this was sensitively combined in microscopic detail with traditional methods of experienced craftsmen to engender a new "Xeno spirit" that offers unprecedented playability and tone that continually grows and evolves with artists' needs.

In 2001 the Xeno series was further refined and the YTR-8335S was finally released to the world market.

Since the introduction of the Xeno series, Yamaha has produced a series of outstanding instruments that bear the Xeno name. Leading the way are the Xeno Artist Model "Chicago" and "New York" series, whose debut in 2005 stunned the musical world. The Xeno development philosophy is to use an artist's deep musical sensitivity and the expertise and skill of designers and craftsmen.

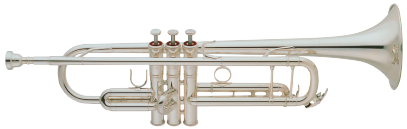
The Xeno series has garnered a reputation of reliability among players of all ages and skill levels. From its debut in 1990 to now, the Xeno name has come to be associated with excellence, quality and the mindset of never being satisfied with existing achievement and to always pursue the ideal instrument.

# Xeno through the years

## 1986

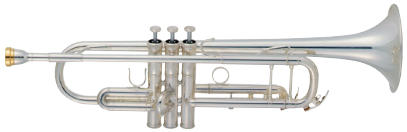
**YTR-8335HS** (YTR-6335HS)
Yamaha's first heavyweight model. Its power and presence in orchestral settings helped to define the Yamaha image.

## 1990 – Xeno 1st Generation



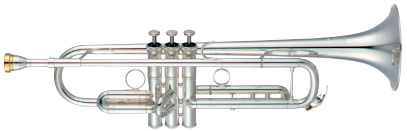
**YTR-8335US**
New bell material.Bright, lively tone.
Easy playability plus excellent response.

## 1994 – Xeno 2nd Generation



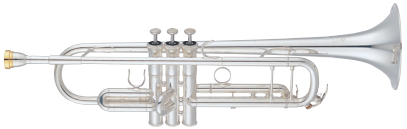
**YTR-8335US II** (YTR-6335HS II)
Important parts redesigned for improved resistance and response. Richer, fuller tone.

## 1998



**YTR-8335UGRS**
A variation with a single main tuning slide brace.
Freer playing feel and bigger tone.

## 2001 – Xeno 3rd Generation



**YTR-8335S**
Increased rigidity and improved balance for enhanced playability and a solid tonal core.

## 2005

Xeno Artist Model

**YTR-9445CHS**
An advanced, optimized design that satisfies the highest musical requirements.

## 2006

Xeno Artist Model

**YTR-9335CHS & YTR-9335NYS/YTR-9445NYS**
The "New York Model", with further refined playability and balance is highly rated by users.

## 2013

Xeno Artist Model

**YTR-9445CHS** (2nd Generation)
All parts revised for optimum feel and sublime balance.
An instrument with outstanding presence.

## 2013 – Xeno 4th Generation

**YTR-8335S**

## Design concept and related new specifications

When the new Xeno project started in May 2010, our designers first began by speaking to trumpet players from around the world to find out what their needs were. After carefully studying the information they received they came to the conclusion that there were three major aspects that needed to be achieved.

From a playability point of view the new generation of Xeno trumpets should have a better and lighter response with control in all dynamics without losing its versatility.

The new sound concept envisaged a more centred tone with a very strong presence and enhanced projection, but also a tonal colour which combines warmth and clarity that fulfills the needs of today's discerning players.

Overall Yamaha wanted to develop an instrument that would inspire trumpet players from all aspects of musical life.

## Major Objectives

- **A better response in all dynamics**
- **A more "centred" tone with stronger presence**
- **A clearer & warmer tone colour**

# Key Features

## A better response in all dynamics

### Pistons and valve casings – lighter weight concept

Reduced wall thickness and lighter weight pistons for faster response. For optimised resistance the piston port angle has been changed.

### New designed water-key spring

The ends of the water key spring have been curled for improved response.

### Knuckle bend angle changed

New

Current

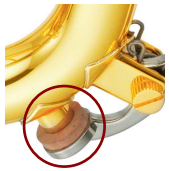
Knuckle bend angle and inner connection piece has been changed for improved response and to provide the player with an ideal blowing resistance.

## A more "centred" tone with stronger presence

### New style bell with new taper

A new bell design (YL3) with a slightly new taper at the end contributes to optimum resistance for a powerful tonal core. The new design also enhances playability in the upper register.

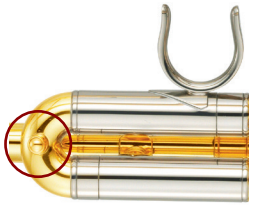
### Improved water-key



The height of the main slide water key base has been increased for optimum resistance.

### Button on 1st slide

The button on the 1st slide is to fine-tune the blowing resistance for better control.



### Knuckle bend angle changed

New

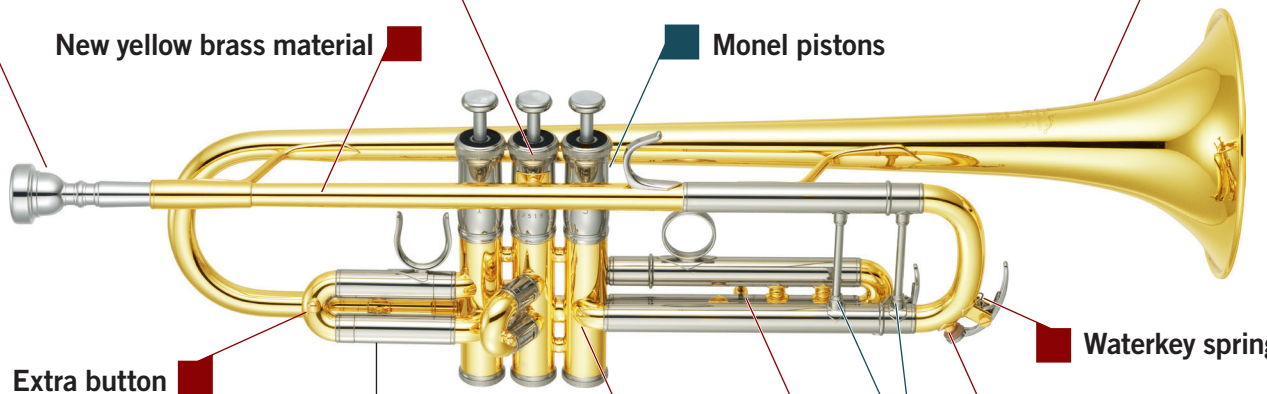
Current

## A clearer & warmer tone colour

### Lead pipe material change

New yellow brass material which has got slightly more copper gives a warmer yet clear tone colour.

# YTR-8335/8345




## Driven by passion

The new generation of Xeno trumpets have an improved, lighter response with control in all dynamics without losing its versatility. A lighter weight piston and valve casing concept as well a new long-type water key has been implemented to optimise the overall performance. The redesigned bell taper contributes to the instrument's strong presence and centred tone. The new Xeno´s have a tonal colour that is both warm and clear which was achieved by using a new yellow brass material on the leadpipe. With a perfect resistance and weight balance, the instrument features an expanded range of expression which makes them ideal for use in a number of musical genres.
Xeno trumpets continue to evolve with the artists who play them, towards the ultimate goal of ideal musical expression.

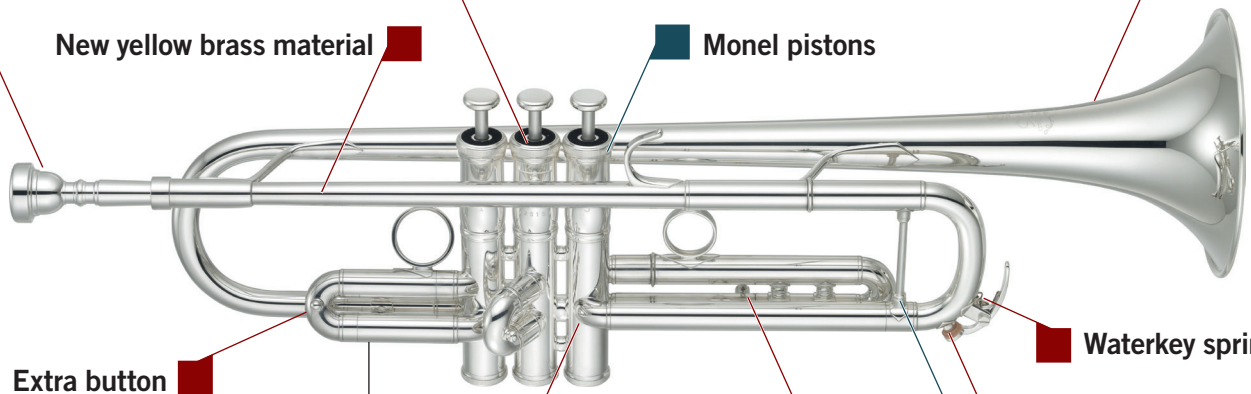
- One-piece hand-hammered yellow brass bell
- Bore: 11.65 mm (ML)
- **New bell taper**
- 123 mm bell diameter
- Two braces on maintuning slide
- **Lighter valve casing and pistons weight**
- **Long type waterkey on main slide**
- **Extra Button on 1st valve slide**
- **3rd slide – two stopper positions**
- **Mouthpiece 16C4**
- **Double Case TRC-800E**

| Model | Bore | Bellmaterial | finish |
|---|---|---|---|
| YTR-8335 | ML | yellow brass | lacquer |
| YTR-8335G | ML | gold brass | lacquer |
| YTR-8335S | ML | yellow brass | silver plated |
| YTR-8335GS | ML | gold brass | silver plated |
| YTR-8345 | L | yellow brass | lacquer |
| YTR-8345G | L | gold brass | lacquer |
| YTR-8345S | L | yellow brass | silver plated |
| YTR-8345GS | L | gold brass | silver plated |

# NEW Custom Series Xeno Trumpets

YAMAHA

## YTR-8335R/8345R




### Pushing the boundaries

The YTR-8335RS achieves smooth resistance and airflow that only a reverse tuning slide design can offer, for easy, comfortable playability and harmonically rich tone. The mouthpiece receiver design has been improved to deliver brighter, warmer tone. In addition to a relatively heavy mouthpiece receiver, the YTR-8335RS features a single main tuning slide brace and a finger ring design that result in an ideal balance between great playability and wide range of tonal expression.

- One-piece hand-hammered yellow brass bell
- Reversed leadpipe
- Bore: 11.65 mm (ML)
- **New bell taper**
- 123 mm bell diameter
- One brace on maintuning slide
- **Lighter valve casing and pistons weight**
- **Long type waterkey on main slide**
- **Extra Button on 1st valve slide**
- **3rd slide – two stopper positions**
- **Mouthpiece 16C4**
- **Double Case TRC-800E**

**Two stopper positions***

Player can choose according to preference.
Position 1: a more open, brighter tone
Position 2: a more centred, focused tone

| Model | Bore | Bellmaterial | finish |
|---|---|---|---|
| YTR-8335R | ML | yellow brass | lacquer |
| YTR-8335RG | ML | gold brass | lacquer |
| YTR-8335RS | ML | yellow brass | silver plated |
| YTR-8335RGS | ML | gold brass | silver plated |
| YTR-8345R | L | yellow brass | lacquer |
| YTR-8345RG | L | gold brass | lacquer |
| YTR-8345RS | L | yellow brass | silver plated |
| YTR-8345RGS | L | gold brass | silver plated |

# Case and Accessories

## New Double Case

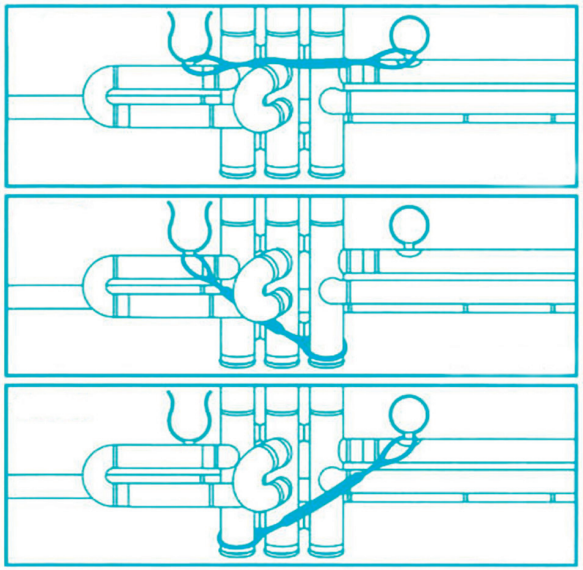
The new double case TRC-800E is made from artificial black leather and has space for two trumpets (Bb or C) plus accessories and music in the side bag.
It is possible to carry it also as a backpack.

**Exterior**
Black leather (artificial)
Beige stitching
**Interior**
Black cloth
Double case
**Outside pocket**
Space for Music and Accessories

TRC-800E

## Slide Stopper

The slide stopper is designed to prevent the 1st and 3rd slides from slipping off. It is made of silicone rubber, which will not harm the finish.
Providing both strength and elasticity, it can remain attached to the instrument during performance.
It is possible to use it in three different positions.



# NEW Custom Series Xeno Trumpets

YAMAHA

## What's new

| Current Xeno | Part | New Xeno | Advantage |
|---|---|---|---|
| YL2 Style | Bell | New Taper YL3 | Easier upper register feel |
| Yellow brass | Leadpipe | Yellow brass material change more Copper | Warmer but very clear sound – more durable |
| Standard weight | Valve casing | Lighter weight – thinner wall thickness, Knuckle bent angle changed | Quick response, optimised resistance |
| | Piston assembly | | |
| Standard | Tuning Slide | Longer water key | Optimised resistance |
| Curled one end | Water key spring | Curled both ends | Quick response |
| No Button | 1st Valve slide | Button | More centered sound |
| One position | 3rd slide stopper | Two positions | Player can choose according to preference |
| No | Slide stopper | Silicon rubber made slide stopper | To prevent 1st and 3rd slides from slipping off |
| 16C4GP | Mouthpiece | 16C4 Standard | Unified mouthpiece |
| TRC-606 | Double Case | TRC-800E with backpack belts and shoulder strap | More convenient |

WBMANUALXENO13E

P77022855