

## Specifications

		N1	N2	N3
Keyboard	Number of Keys	88 (A1~C7)		
	Type	Acrylic resin	Ivorite®	
	Action	Specialized Grand Piano Action for AvantGrand		
Pedal	Number of Pedals	3 (Damper with half-pedal effect, Sostenuto and Soft)		
	Type	-		Specialized Grand Piano Pedal for AvantGrand
Tactile Response System (TRS)		-	Yes	
Voice	Tone Generation Technology	Spatial Acoustic Sampling		
	Number of Polyphony (Max.)	256		
	Number of Voices	Grand Piano×2 + E. Piano×2, Harpsichord×1		
Sound	Spatial Acoustic Speaker System	Amplifiers : 25W×1+30W×5 Speakers : 8cm×3+13cm×2+16cm×1	Amplifiers : 22W×10+80W×2 Speakers : (13cm+2.5cm)×3+(8cm+2.5cm)+16cm×2	Amplifiers : 22W×10+30W×4+80W×2 Speakers : (16cm+13cm+2.5cm)×4
	Soundboard Resonator	-		Yes
Function	Overall Controls			
	Reverb	Yes		
	Metronome	Yes		
	Tempo	Yes		
	Transpose	Yes		
	Tuning	Yes		
Song	Scale	7 types		
	Preset songs	10 preset songs + 5 voice demo songs		
	Recording	1 (300KB *30,000 Notes)		
Connectivity	Headphones	PHONES×2		
	MIDI	IN/OUT		
	AUX IN	{L/L+R} {R}		
	AUX OUT	{L/L+R} {R}		
	USB [TO DEVICE]	Yes		
Color/Finish	Polished Ebony		Polished Ebony Grand Piano Cabinet	
Dimensions: Width×Depth×Height	1,465mm (57-11/16")×618mm (24-5/16")×995mm (39-3/16", *with music rest : 1,170mm (46-1/16"))	1,471mm (57-15/16")×531mm (20-7/8")×1,009mm (39-3/4", *with music rest : 1,181mm (46-1/2"))	1,481mm (58-5/16")×1,195mm (47-1/16")×1,014mm (39-15/16", *Lid up : 1,734mm (68-1/4"))	
Weight	120.5kg (265lbs., 11oz.)	142kg (313lbs., 1oz.)	199kg (438lbs., 12oz.)	
Music Rest	Yes		Yes (angle adjustable *35, 70 degrees)	

\* AvantGrand series pianos utilize the same piano action as an acoustic piano. Consequently, changes in the environment or the conditions in which these instruments are used may necessitate adjustment or maintenance.

\* Specifications are subject to change without notice. The cabinet colors and finishes in this brochure may appear different than those on the actual products.

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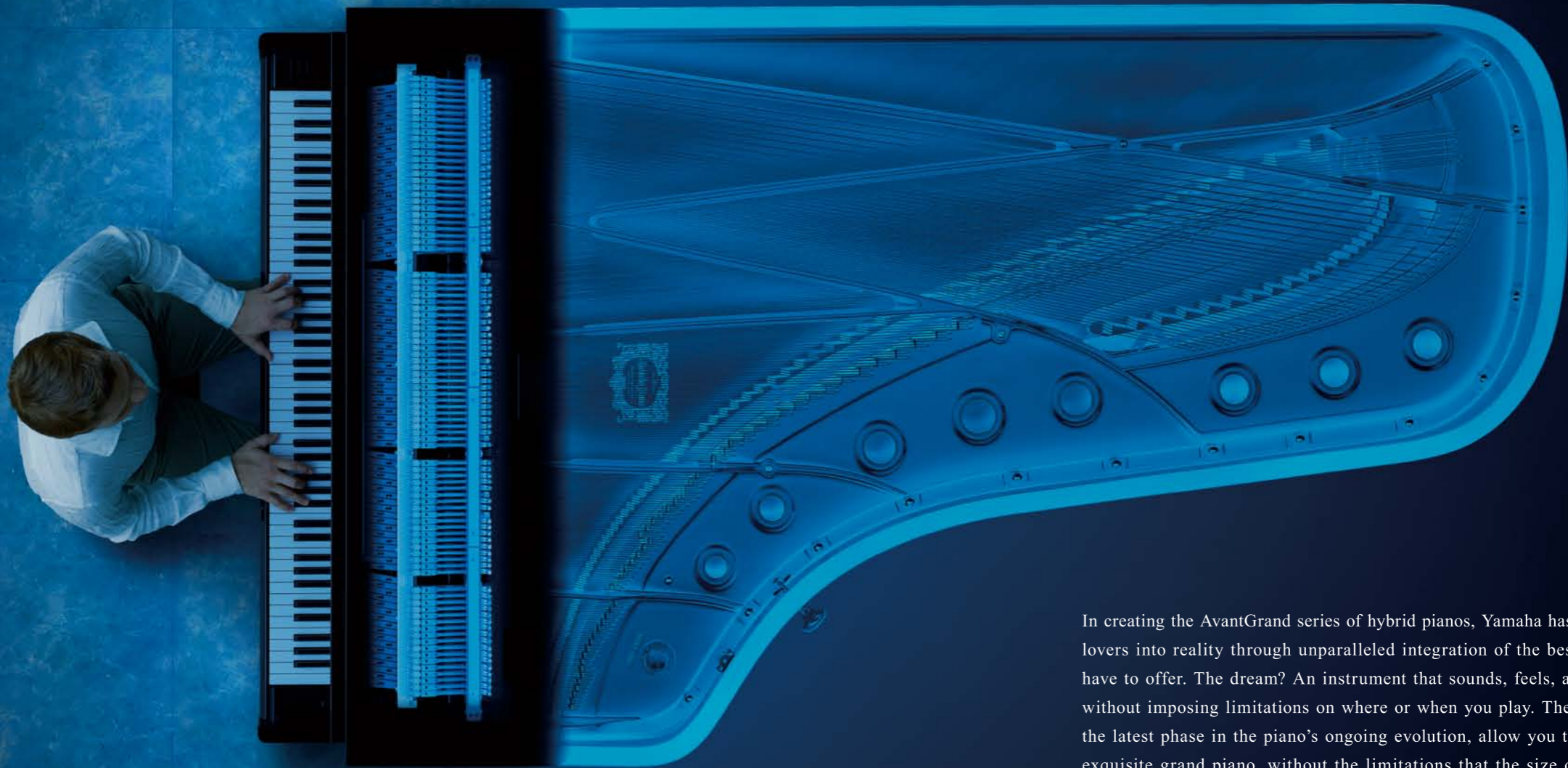


# AVANT GRAND

Yamaha Hybrid Piano



AvantGrand delivers a completely new—yet very familiar—playing experience



In creating the AvantGrand series of hybrid pianos, Yamaha has transformed a long-held dream of piano lovers into reality through unparalleled integration of the best that acoustic and digital technologies have to offer. The dream? An instrument that sounds, feels, and responds exactly like a grand piano, without imposing limitations on where or when you play. The innovative hybrid technologies of this, the latest phase in the piano's ongoing evolution, allow you to experience the pure joy of playing an exquisite grand piano, without the limitations that the size of such an instrument usually imposes.

Innovation with soul **AVANTGRAND**  
Yamaha Hybrid Piano

ADVANTAGE GRAND

Three paths to perfect sound.



Line Up



Compact simplicity **N1**



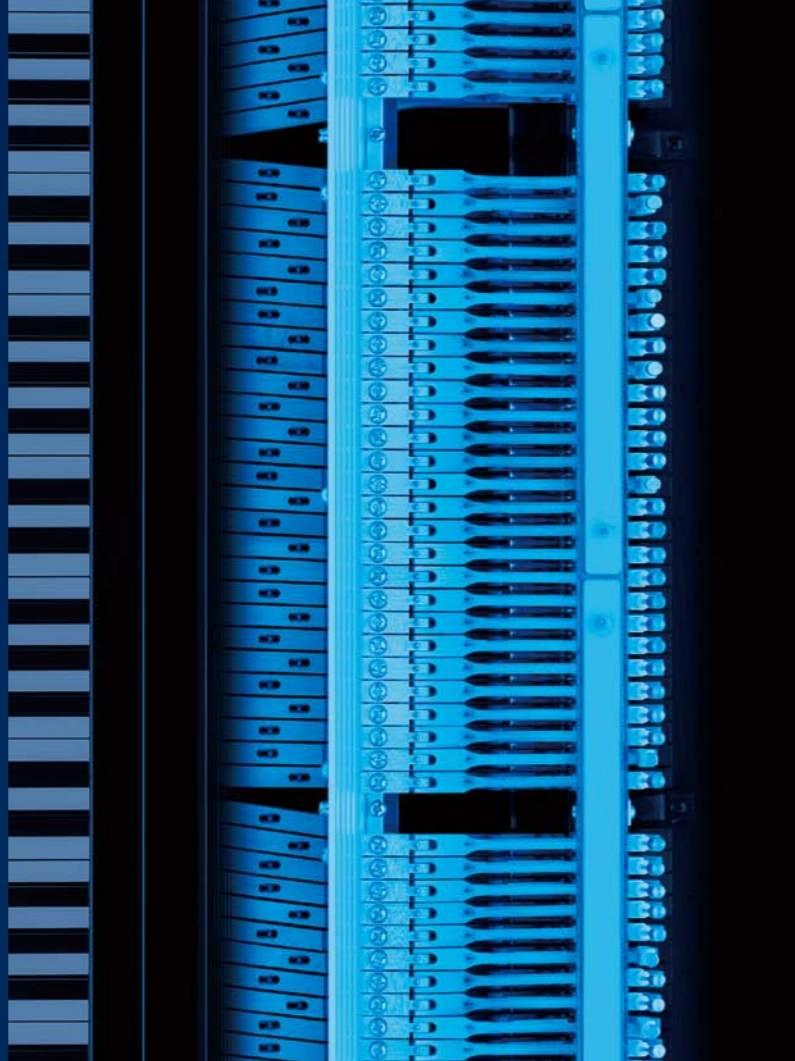
Inspirational to the touch **N2**



Setting a new standard **N3**

An elegant fusion of  
the acoustic and digital,  
redefining your relationship  
with the piano.

Technology



Why own a grand piano if you can't immerse yourself in its sound for fear of disturbing someone?

Anyone who loves to play will recognize this dilemma immediately, and will certainly have longed to be able to turn down the volume just to keep playing.

With the AvantGrand, now you can.

To enable you to play whenever you choose, without compromise, Yamaha adopted two ambitious goals in developing this hybrid instrument.

The first - to meticulously emulate the sound of the grand piano in all its glory; the second - to replicate the physical sensation of playing, so that even with the volume turned down, the instrument will not lose an ounce of expressive power. To achieve these goals, we embarked upon an exhaustive program of inspecting and testing the entire sound

production process, starting at the input stage -

the keyboard and pedals - moving on to the sampling process,

and finally focusing on the speaker system,

which delivers the finished sound.

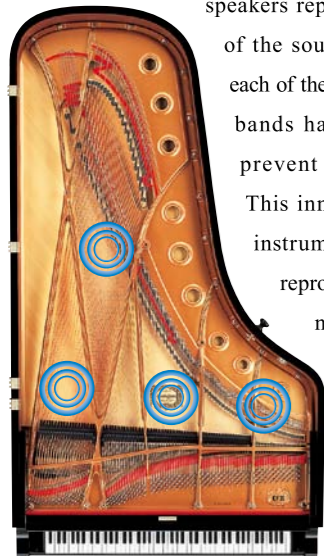
**Thanks to a specially designed grand-piano action and a wooden keyboard, the AvantGrand truly becomes an extension of your body as you play.**

The nuanced touch and response of the grand piano are an essential standard yardstick for piano quality. The AvantGrand offers the player a specially-developed grand piano action that features the same configuration as the action of a real grand. The hammers strike the "strings" from underneath, allowing minute adjustments to the weight distribution of the hammers, and to the movement of the hammers themselves, for a smoother feel when playing. In addition to a hammer sensor, the AvantGrand employs a non-contact key sensor that has no effect on the movement of the keys, affording excellent recognition of the player's pressure on the keyboard, timing, and the other delicate nuances that affect musical expression. This combination provides an impressive sensitivity for the entire range from pianissimo through to fortissimo, and the ability to translate even the swiftest trills of the pianist with transparency. The wood construction of the keyboard mirrors that of the grand piano, and features Ivorite on the white keys. (Only for N2,N3.) This is a unique new material developed by Yamaha, with a texture superbly close to that of natural ivory, allowing you to play swift passages with ease while also offering a sure response for slower pieces.



**Unique acoustic-sampling approach and speaker system born of a radical rethink of the entire sound production process.**

With the introduction of the AvantGrand, Yamaha ignited a revolution in the approach to sampling recording and playback of the notes of the actual acoustic piano. Treating the soundboard not simply as a point source of sound but as a plane, we took samples at four positions, adding optimum center and rear locations to the traditional left and right. As a sound source, we carefully selected the best single instrument from among our CFIII S full concert grand pianos for sampling. The end result of these efforts is that AvantGrand series instruments recreate the original sound of a superb grand piano almost to perfection. Meanwhile, the AvantGrand's speaker system has been designed to ensure that this sound is heard best at the playing position. A three-way system featuring woofer, mid-range and tweeter



speakers reproduce the rich natural resonance of the soundboard accurately. What's more, each of the low-, mid-, and high-frequency bands has been given its own amplifier to prevent interference between bands. This innovative configuration allows the instrument's outstanding sound system to reproduce the nuances of each individual note. For even greater sonic accuracy, the speakers of the N3 duplicate the original sampling positions, while the N1 and N2 feature speaker layouts optimized for the size of the instruments.

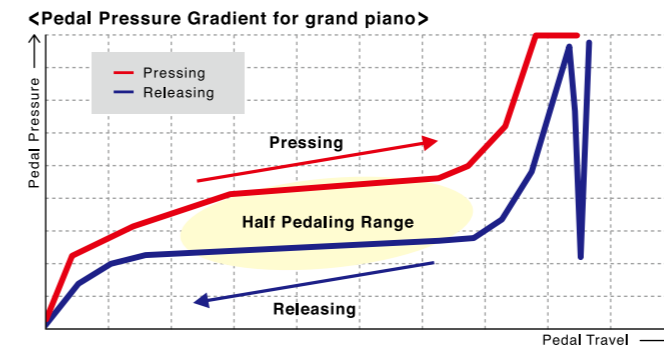
**The Tactile Response System (TRS) recreates the sensation of piano body vibration.**

The sound of an acoustic piano resonates throughout its entire body. The bass range in particular is an essential part of the reverberation that is continually transmitted to a player's body. In the AvantGrand, this is replicated by our newly-developed Tactile Response System (TRS) that focuses on reproducing reverberation. This system features two transducers in the soundboard, the area underneath the keyboard, resonating natural reverberation throughout the entire instrument. The player's hands on the keyboard transmit the natural sound felt from the feet as they depress the pedals; the epitome of real piano playing. This system can be turned on and off, and the vibration set to one of three levels. (Only for N2, N3.)



**Pedals specially designed to replicate the subtle pedalling unique to grand pianos.**

Light to the touch at first, subtle firmness partway through its travel, and lightening again as the player pushes further; the pedals of the grand piano have subtly different stages than can be felt when the pedal is depressed. Skilled players take advantage of these pedal movements by using extremely delicate pedaling that allows them to achieve finely nuanced expression in their play. In developing the AvantGrand, we set out to reproduce the sensations of a grand piano's pedals as faithfully as possible. The resulting pedal allows for music as you believe it should sound, equally responsive for more impressionistic pieces that require a lot of half-pedaling. (Only for N3.)



**The Soundboard resonator precisely emulates the way in which the instrument reacts to the sound of hammer hitting string.**

In addition to the four-channel multi-speakers, the AvantGrand also features a flat-panel "Soundboard Resonator" where the music stand would be when laid flat, allowing a more subtle reproduction of the buildup of sound felt by pianists when playing a grand piano. An oscillator called a "transducer" transmits vibration to the flat-panel soundboard, giving a realistic sound response that is especially evident in the higher range. (Only for N3.)



AVANTGRAND

Open your mind to new possibilities.

Compact simplicity **N1**



As the newest addition to the AvantGrand lineup, the N1 delivers the captivating sound of this hybrid piano series in its simplest form. The N1 easily does justice to the grand piano in terms of playing feel and responsive action, setting a new standard with its perfect integration of acoustic and digital technologies.

ADVANTAGE GRAND

At last, an instrument  
that resonates with you.

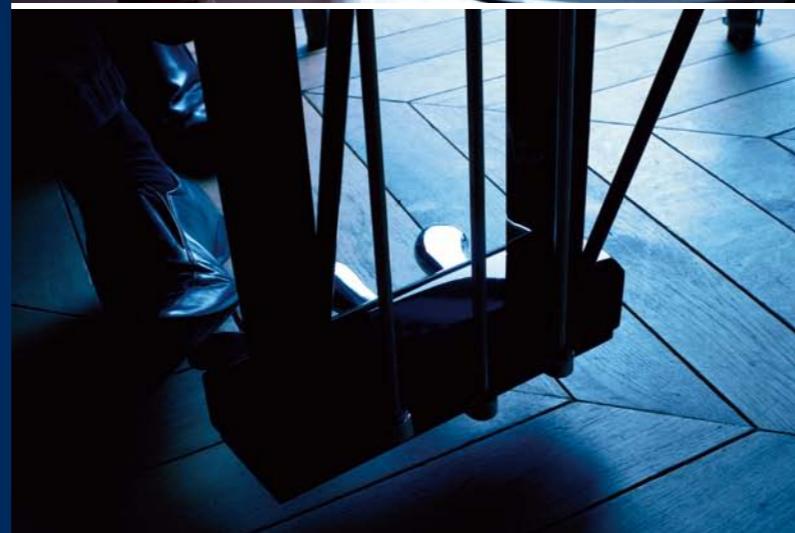
Inspirational  
to the touch **N2**



Featuring the same grand piano action as the N3 in a form that molds beautifully to any wall, the N2 is an instrument for the future, yet one that holds firmly to its identity as a grand piano. With a revolutionary speaker system and a touch that simply compels you to play, the compact form and feel of this elegant piano exudes refinement. Perfect for those that love the grand piano but are space conscious.

AVANTGRAND

The ultimate  
AvantGrand experience.  
Feel the difference.  
Be inspired.



Setting a new  
standard **N3**



With a design embodying the latest in technology, Yamaha signals a new direction for the piano.

This, our flagship model, is the ultimate expression of "Innovation with soul."

A keyboard and pedals indistinguishable from those of a grand piano. Stunningly authentic tactile response.

Speakers with the authority and presence to deliver flawless sound. The AvantGrand N3 weaves

advanced technology into an extraordinary design that gives form to Yamaha's aspirations for the future.



The AvantGrand offers broader horizons for the piano and the pianist.



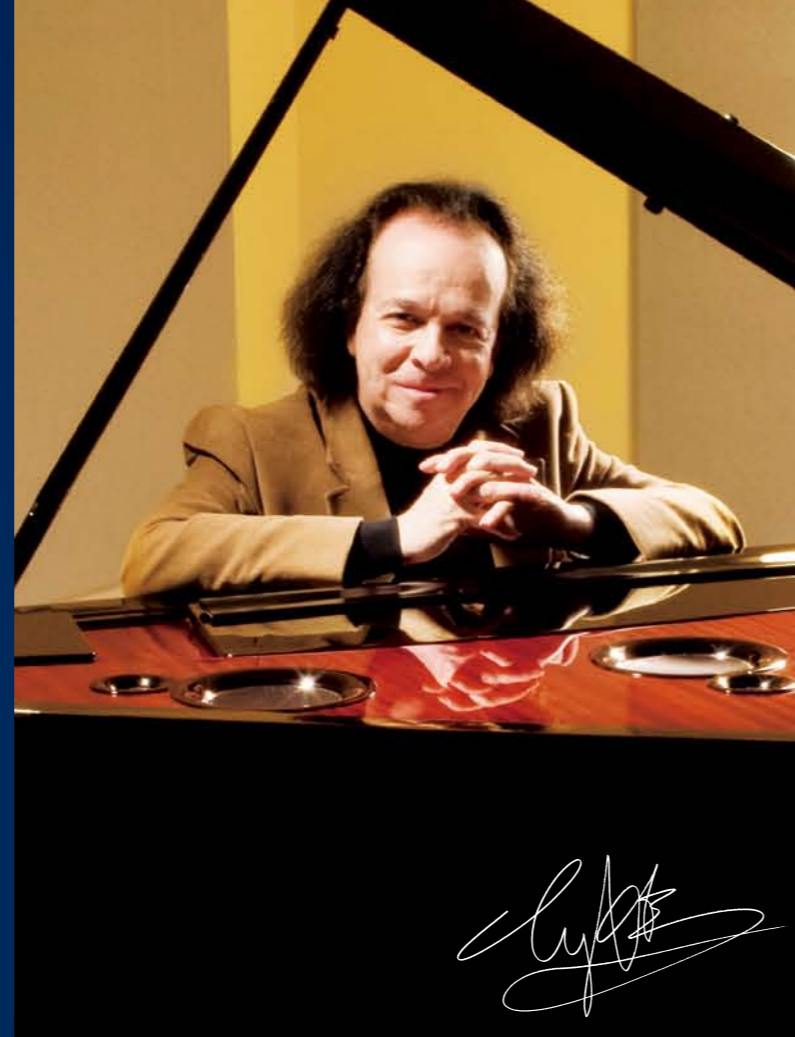
Alexander  
Kobrin

To be honest, when I first saw the AvantGrand in Hamamatsu I didn't really have any great expectations for the instrument. I just thought... "OK, so they've released another digital piano." That changed completely when I actually played it - I could see that this was something very special. It possesses enough potential to be called a real piano. The touch, the sound... even though it's a digital piano it actually feels closer to a grand piano; that is, you can really feel a connection to it as an instrument. A key aspect of playing the piano is that getting the sound you desire requires a certain amount of practice. To put it another way, with practice, the piano allows you to create a certain level of expression. This is just my personal opinion, but generally speaking, acoustic instruments are destined to have individual differences, and, for pianists the first piano they encounter will affect them significantly. That's why I would suggest that this piano, with its fixed, constant standards, might be a better choice when starting out than an acoustic grand piano in anything but perfect condition. I believe the AvantGrand just has that much potential for performance. The fact that such an instrument has emerged means that more people will be blessed with the chance to play the piano. The AvantGrand offers the pianist a truly broader canvas. With a piano, there are always the concerns of where to put it, its surrounding environment, and the instrument's expressive capabilities as a piano. Since my father was a piano teacher, I began to learn the piano at the age of five. And before I knew it, it had become a part of my life. I really began to take it seriously when I was about seventeen. It's no exaggeration to say that becoming a pianist was a true gift from God, but I chose to play for much more than just this gift. Playing the piano well is not like a game; it is not something that offers you quick results. Even so, I believe that any rewards gained become an invaluable part of your life. This is not so much performing on stage but sitting at your piano by yourself at home. Even now, I think that such moments are when I am happiest.

———— Alexander Kobrin

The AvantGrand is the best practice piano for any pianist, something never before achieved with a Digital piano.

Cyprien  
Katsaris




My history with the piano began when I was about three and a half years old. I started by playing with one finger on a piano bought for my sister. Much later I entered the Paris Conservatoire, and even now, I still sit at the piano every day, and devote myself to hours of concentrated practice. Piano practice takes an extremely long time, but has absolutely no meaning if you don't practice with the correct technique. Likewise, I think that it is also important to choose a good piano. And from that standpoint, I believe that this instrument is an appropriate choice. This time I chose to play Gottschalk's "Banjo", one of the most technically demanding pieces in my repertoire, along with other pieces by Chopin and Schumann that require a rich, profound expressive ability. The fact that I was willing to attempt such pieces on this piano should give you an understanding of just how capable an instrument it is. Of course the action and the touch of the keyboard are both good, but I was very surprised by the depth of its pedaling. It responds well to subtle changes when depressing and releasing the pedals. Of course, the sound quality of the instrument almost go without saying.

You can discern exactly where the sound is coming from for the entire range from bass right through to treble, just as you can in a grand piano. The design itself is elegant, and lets you feel the sound; a "musical" design if you will. This piano possesses qualities not present in any digital piano thus far, and it would be no exaggeration to say that it has in itself created a new genre of pianos. I would like to advise all of you studying the piano, please, try to play an excellent instrument, and don't waste your time practicing the wrong way.

I firmly believe that playing the piano is an artistic act that lifts the spirits of all those who hear you; and an act made possible by the communicative abilities of us as human beings. I think that when I play the piano in front of an audience, more than demonstrating technical perfection, I am communicating with those watching and listening, in a musical, artistic way. For me, the piano is an irreplaceable partner. Music is like my wife, and the pianos my girlfriends. I believe that the piano can become your lover too.

————— Cyprien Katsaris