November 30, 2018

Announcing the Newest Models in the inpres UD+2 Series

Yamaha Golf clubs equipped with renowned +2-club Technology for maximum ease and greater distance thanks to increased kick velocity:



Complete New Lineup from Drivers to Irons to Debut Friday, October 5

Yamaha Corporation announces the release of the 2019 models of the inpres UD+2 Series golf clubs, scheduled to go on sale throughout Japan on Friday, October 5. Caddie bags and tote bags featuring the inpres logo are also scheduled for release on the same day.

Price and Release Date

Product	Model	Number	Price Plus Tax	Release Date	
		Driver (#1)	80,000 yen plus tax		
		Fairway Wood (#3)	52,000 yen plus tax	Eriday October 5	
Yamaha golf clubs	inpres UD+2	Fairway Woods (#5, #7, #9)	Each 46,000 yen plus tax		
		Utility Clubs (#U4, #U5, #U6)	Each 38,000 yen plus tax	Friday, October 5	
		Irons (#7, #8, #9, PW)	96,000 yen plus tax (set of 4)		
		Irons (#5, #6, AW, AS, SW)	Each 24,000 yen plus tax		

Projected Sale Quantity in Japan Drivers: 35,000; Irons: 35,000 sets

■inpres Caddie Bags

Product	Model	Size Color		Price Plus Tax	Release Date
Caddie bag	Y19CBAI	9 inch (shafts up to 48 inches)	Bordeaux(Wine Red)/Black/Navy	Each 28,000 yen plus tax	Friday, October 5

■inpres Tote Bags

Product	Model	Size	Size Color		Release Date
Tote bag	Y19TBI			Each 13,000 yen	Friday, October 5
		D: 22 cm		plus tax	

Product Overview

The 2019 inpres UD+2 models scheduled for release in October are the second generation of the inpres UD+2 Series, which is founded on the concepts of providing impressive flight distance that is easy to feel and see for average golfers seeking distance, in addition to delivering a sense of security on the strength of confidence-boosting, easy-to-swing, surefire contact attributes as well as an exhilarating sound of impact. All clubs—drivers, fairway woods, utility clubs and irons—are equipped with the three elements of +2-club Technology: Limit-Pushing Repulsion, Super CG Design, and High Kick Velocity Loft Design.

For the first time, inpres UD+2 Drivers and inpres UD+2 Fairway Woods and Utility Clubs feature Head Turn Energy Design that places the faces farther from the shaft axis to increase the energy generated by the head turn, thereby increasing kick velocity. In another first, all clubs in this series¹—including inpres UD+2 Irons—have been equipped with Tip Weight Technology,² in which weights are placed in the tips of the shafts to minimize unnecessary movement at impact. This increases kick velocity, but also results in optimal launch angles and spin rates to further improve the flight of the ball.

We also expanded the projection area and made other efforts to increase the transverse moment of inertia to achieve a roughly 20% improvement³ in the consistency of direction of inpres UD+2 Drivers and inpres UD+2 Fairway Woods and Utility Clubs. For inpres UD+2 Irons, we shaved the width of the sole to boost confidence at address and made other improvements. We made all these efforts to give golfers a tangible sense of security every time they pick up a 2019 model inpres UD+2 club.

¹This is the first time we have used this technology on Yamaha fairway woods, utility clubs and irons.

²For irons, Tip Weight Technology is only available with Yamaha original carbon shafts.

■inpres UD+2 Shafts (Drivers/Fairway Woods/Utility Clubs/Irons)

The first series model with all clubs featuring shafts equipped with Tip Weight Technology

This is the first time⁴ that the entire inpres UD+2 Series lineup—from drivers to irons—has been equipped with Tip Weight Technology, which increases flight distance by reducing energy loss at impact. We placed sheet-like weights of tungsten and other materials at the tips of the shafts to minimize unnecessary deflection at impact, thereby increasing kick velocity. This also, stabilizes the behavior at impact producing optimal launch angles and spin

rates.

Tip Weight Technology for minimizing unnecessary deflection of the shaft at impact

³Yamaha Golf comparison with previous models

Regular shaft

Large energy loss

Small energy loss

(Sample image)

DRIVER FW UT IRON

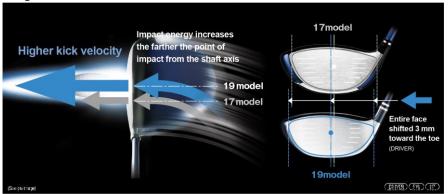
⁴This is the first time we have used this technology on Yamaha fairway woods, utility clubs and irons.

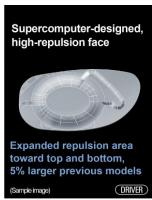
Product Attributes

■inpres UD+2 Drivers

1. Head Turn Energy Design Increases Kick Velocity, Flight Distance

The farther the point of impact is from the shaft axis, the higher the revolution velocity during the clubhead turn. This higher revolution velocity increases impact energy. The Yamaha development team used these properties to equip inpres UD+2 Drivers with the Head Turn Energy Design that places the center of the clubface far from the shaft axis. The center of the face is 3 mm closer to the toe than on the previous model. This increases the revolution speed of the head, thereby increasing kick velocity and producing even more flight distance. In addition, with the Ultimate Face (patent pending)—the optimal face thickness derived from analysis of tens of thousands of patterns—the repulsion area is expanded roughly 5% to minimize the loss of flight distance from off-center hits.





2. Super CG Design (ultra-low, ultra-deep CG) and High Kick Velocity Loft Design (higher repulsion efficiency)

We integrated a 37-gram weight into the sole, which accounts for roughly 20% of the head weight, to achieve a CG that is low (28.5 mm) and deep (43.0 mm). The ultra-low, ultra-deep CG in this Super CG Design enables golfers to hit the ball higher and with lower spin. The Super CG Design also provides a reliably strong loft with increased repulsion efficiency and kick velocity.





High moment of

inertia increases

consistency 20%

3. "High-Ease" Design emphasizes clean contact in addition to confidence at address and consistency of direction

We expanded the projection area and made other efforts to increase the transverse moment of inertia to achieve a 20% improvement in the consistency of direction. We also increased the CG angle to roughly 33° to facilitate the return of the face through the swing arc and deliver clean contact more reliably than expected with a confidence-boosting straight face.



4. Yamaha's distinct "Pleasing Sound Design" produces an exhilarating sound of impact

We know that the internal resonance that occurs at impact has a substantial effect on the audible sound of impact, and that the sound of impact is highly correlated with how good the impact feels. Therefore, we believe that a pleasing sound of impact is a critical element of club performance. To that end, we applied our knowledge and experience as musical instrument manufacturers and conducted vibration analysis and other collaborative research with Yamaha's Research and Development Department, which is

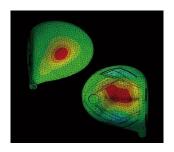


Image of vibration analysis

involved in developing the sound of our musical instruments. This cooperation resulted in a more exhilarating sound of impact than our previous models. We applied this "Pleasing Sound Design" to our newest fairway woods and utility clubs as well.

■inpres UD+2 Fairway Woods/Utility Clubs

1. Increased flight distance by adding Head Turn Energy Design to Limit-Pushing Repulsion

For the 3-wood, we used a precision cast titanium body fully integrated with the face to eliminate welding on the inner surface of the face, thereby expanding the deflection area and delivering even better repulsion. For the other fairway woods and utility clubs, we used a maraging cupped face with uneven thickness to widen the face deflection area and expand the repulsion area, thereby improving repulsion. We also equipped these clubs with the Head Turn Energy Design that places the center of the clubface far from the shaft axis, which increases the revolution speed of the head, thereby increasing kick velocity and producing even more flight distance.



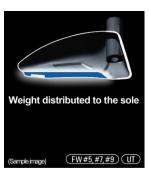
Titanium body fully integrated with the face Image for illustration purposes only Fairway Wood (#3)



Maraging cupped face with uneven thickness Image for illustration purposes only Fairway Woods (#5, #7, #9) and Utility Clubs *Yamaha Golf research

2. Super CG Design (ultra-low, ultra-deep CG) and High Kick Velocity Loft Design (higher repulsion efficiency)

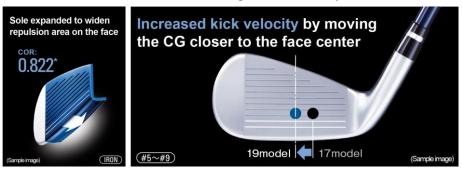
For the 3-wood, we used a 115-gram, high-density alloy sole to add weight to the entire sole in an effort to achieve a CG that is both ultra-low and ultra-deep. For other fairway woods and utility clubs, we achieved the ultra-low, ultra-deep CG by using an inner weight in the sole to make it thicker overall. The Super CG Design also provides a reliable, strong loft with increased repulsion efficiency and kick velocity.



■inpres UD+2 Irons

1. Improved L-UNIT face and other additions result in Limit-Pushing Repulsion (COR of 0.822)

For the 5- through 7-irons, we expanded the sole of the L-UNIT Face 2 mm toward the rear compared to the previous model. We increased the deflection of the bottom of the face near the true contact point to improve repulsion. We also shifted the CG 4 mm closer to the center of the clubface to improve kick velocity.



^{*}Yamaha Golf research

2. Super CG Design (high launch angles) and High Kick Velocity Loft Design (higher repulsion efficiency)

We used a "blade undercut" structure to shift excess weight from the top blade to the rear of the sole to achieve an ultra-low, ultra-deep CG to make it easier to hit the ball in the air. The design also provides a reliably strong loft with high kick velocity.



3. Thinner sole, head design improvements, and more result in a naturally confidence-boosting shape

For the 7-iron, we shaved roughly 2 mm from the sole width compared to the previous model. Sole width was optimized for the other irons to improve sweep and elicit a natural confidence at address. We also raised the upper part of the toe of the 7-iron 1.5 mm higher than the previous model for a more iron-like head design.

■Products with the inpres Logo

Caddie bags and tote bags to feature the inpres logo

Yamaha's new offering includes high-quality caddie bags with subdued designs featuring the inpres logo, and tote bags designed in the same image.







Caddie bag Y19CBAI Colors: Bordeaux(Wine Red)Black/Navy







Tote bag Y19TBI Colors: Bordeaux(Wine Red)/Black/Navy

Specifications

■inpres UD+2 Drivers

Loft angle (°)	9.5	10.5				
Lie angle (°)	61					
Face angle (°)	0					
Head volume (cm ³)	4	60				
Design	6-4 Titanium face with uneven thickne	ess, 811 Titanium precision casting body				
Shaft	TMX	C-419D				
Shaft flex	S S/SR/R					
Shaft weight (g)	53/47/45					
Shaft torque (°)	_					
Shaft kickpoint	Tip-mid					
Club length (inches)	45.75					
Balance	D3 D3/D2/D2					
Total club weight (g)	287 287/280/278					
Grip	Yamaha original rubber J100, logo on reverse 40g Y19JG40 (with BL)					
Price	80,000 yen plus tax/club					

■inpres UD+2 Fairway Woods/Utility Clubs

Number	#3	#5	#7	#9	#U4	#U5	#U6	
Loft angle (°)	14.5	17	19	21.5	19	21.5	24	
Lie angle (°)	58	58.5	59	59.5	59.5	60	60.5	
Face angle (°)				0	,			
Head volume (cm ³)	188	174	162	151	124	123	122	
Design	6-4 Titanium Precision casted body High-density alloy sole	0 0	55 cupped face vss, SUS630 Casti	Maraging 455 cupped face with uneven thickness, SUS630 Casting body				
Shaft		TMX	-419F		TMX-419U			
Shaft flex		S/SR/R		R	S/SR/R			
Shaft weight (g)		55/5	0/48	57/52/49				
Shaft torque (°)		-	-		_			
Shaft kickpoint		Tip	-mid		Tip -mid			
Club length (inches)	43.5	42.75	42.25	41.75	40.5 40 39.5			
Balance		D1/D	00/D0	D1/D0/D0				
Total club weight (g)	302/297/294	307/302/299 311/306/303 307			328/323/320	332/327/324	336/331/328	
Grip	Yamaha original rubber J100, logo on reverse, 42 g Y19GJ42(with BL)							
Price	52,000 yen + tax/club 46,000 yen plus tax/club				38,0	000 yen plus tax/	club	

■inpres UD+2 Irons

Number		#5	#6	#7	#8	#9	PW	AW	AS	SW	
Loft angle (°)		22	24	26	29	33	38	43	49	55	
Lie angle (°)		60.75	61	61.25	61.5	61.75	62.25	62.75	62.75	63.25	
Design		SAE8655 New L-UNIT face, S45C Forged body			SAE8655 face, S45C Forged body			S20C Soft iron face, S20C Forged body			
	Shaft weight (g)		77.5								
	Shaft kickpoint		Tip								
	Club length (inches)	38.75	38.25	37.75	37.25	36.75	36.25	35.75	35.75	35.5	
N.S.PRO ZELOS7(S)	Balance	D0 D1 D2						D3			
22357(5)	Club weight (g)	368	374	379	385	393	401	408	410	416	
	Grip	Yamaha original rubber J100, logo on reverse 45g Y19GJ45M58 (M58 equivalent, with BL)									
	Price	Set of 4 (#7-PW): 96,000 yen + tax, Optional clubs (#5, #6, AW, AS, SW): 24,000 yen + tax/club									
	Shaft weight (g)	50.0	/48.5	51.0/49.5	52.0/50.5	52.0/50.5)/50.5 53.0/52.0				
	Shaft torque(°)					_	•				
	Shaft kickpoint	Mid									
Original carbon	Club length (inches)	39	38. 5	38	37.5	37	36.5	36 35.75			
(SR/R)	Balance		C9				Γ	D0 D1			
	Club weight (g)	341/340	347/346	353/352	360/359	367/366	375/374	384/383	386/385	391/390	
	Grip	Yamaha original rubber J100, logo on reverse 45g Y19GJ45UDI (for inpres UD+2 carbon irons, v					ons, with BL)				
	Price Set of 4 (#7-PW): 96,000 yen + tax, Optional clubs (#5, #6, AW, AS, SW): 24,000 yen + tax/o					tax/club					



Yamaha Golf Clubs inpres UD+2 Drivers Price: 80,000 yen + tax



Yamaha Golf Clubs inpres UD+2 Irons #7-PW (Set of 4) Price: 96,000 yen

*"Yamaha" and "inpres" are registered trademarks.

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