

Product Specification K 219


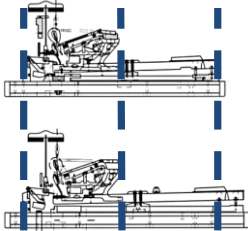
Model Specification	Konzert Grand Pianos	
Model Specification	K 219	
Length / height	CM - INCH	219 - 7'2"
Width	CM - INCH	154 - 60"
Weight	KG - LBS	414 - 910
Company		
Made in	Braunschweig / Germany	



Design Concept



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Action - Keyboard Assembly - Mastercrafted touch , hand fitted into instrument			
Keybed	Keybed integrated into the sound-producing portion of the instrument.		
		Bavarian / Bohemian spruce, sandwich type (3 plies), precision fitted to string level, CNC** manufacturing precision. Supports soundboard by amplifying harmonics (only grands)	
Keyboard	CAPE* designed, manufactured by Schimmel, Bavarian / Bohemian spruce, CNC** manufacturing precision	YES	
	Type of action design and keyboard length (grand pianos)		
		Key tops: Mineral / ebony wood ,designed by Schimmel. Mineral key tops immitate ivory. Surface is non-reflecting with a sensative and warm touch.	
Keyboard hight (keybed / key top)		mm	613 / 726
Individually weighted after keyboard / action assembly for maximum precision		YES	

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Touch	Clearly perceptible, low aftertouch point		YES
	Average static touch weight (Bass up to 5% more, treble up to 5% less)	grams	54
	Average up-travel weight (bass up to 5% more, treble up to 5% less)	grams	27
	Optimum weight distribution within the keyboard-and-action assembly		YES
	Effective length of key levers in mm	mm	455
	Keybed to striking line in mm	mm	196
	Number of keys		88
Action	CAPE design,custom made for Schimmel, Grand Pianos with double repetition		Renner
	Same action as K 280 concert grand piano with identical characteristics as full size concert grand piano.		YES
	Material: Zinc diecasting, aluminium, natural felt, natural leather, metal wire, white beech		YES
Hammers Heads	high performance hammer heads, high elastic felt for high dynamic and rich tone with minimum damping characteristic	pounds	22 lbs
	Schimmel design, made by Renner (Germany), custom made for Schimmel		YES
	Felt made of merino wool, stapled, underfelt red, core made of mahogany		YES
Trapwork	Number of dampers		70
	Sustaining pedal (right)		YES
	Sostenuto (middle)		YES
	Una Corda (left) - only grands		YES
Player System	Installation of Self Player possible		YES

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Installation of silent playing modus Schimmel <i>twin tone</i> in uprights possible, also after purchase by certified Schimmel dealers for all upright pianos manufactured since 2019.		YES

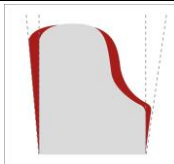
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Sound-Producing-Portion - CAPE* designed (scale, frame, pin positions)			
Scale	CAPE*designed SCHIMMEL high tension scale, overstrung, balanced inharmonicity		YES
	CAPE*-optimized Schimmel scale - inharmonicity coefficient at A 49		0,63
	Similar Scale design as K 280 from tone 44 up to 88 to achieve similar sound caracteristics of our full size concert grand piano also in our smaler models.		YES
Triplex	CAPE* designed SCHIMMEL Triplex scaling with speaking string length in CNC** precision		YES
	Triplex scale in middle and treble sections - compass	unisons	44-88
	Individual tunable at front end		YES
Strings	Steel strings Pitthahn (spring steel) for precise harmonics, high performance steel.		YES
	Bass strings Röslau core (spring steel), Edelhoff windings (copper)		YES
	Total string tension	newton	163 684
	Agraffes in bass section - single/bichord	number of agraffes	8 / 12
	Agraffes in lower middle section - bichord / trichord	number of agraffes	0 / 31
	Speaking length of bass string #1 (agraffe to first bridge pin)	mm - inch	1505
Pin Block	German red beech, 20 plies, high resistance to compression, specific gravity of the laminated material 0.87		YES
	Tuning -pin block integrated into the cast iron frame (only grand piano)		YES
Tuning Pins	High quality steel, nickel plated, oversized, diameter 6.9mm, length 60mm, precision cut thread	number of pins / strings	236
Rim	Multiple laminations, majority of grain directions running horizontal, vertical laminations for additional strength; Material sapele / beech for maximum stability and sound support (grand piano)	thickness outer / inner rim in mm	29 / 45,5
	Number of laminations inner / outer Rim	number of laminations	12 / 18
	Total thickness of inner and outer rims	approx. mm	74,5

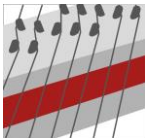
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Inner and outer rim fitted to each other with CNC precision	YES
Reinforcement rail on long side of rim	YES

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Back Posts	Bavarian / Bohemian spruce, Grand Pianos centered to tension collector, Upright Pianos centerposts (side posts). Maxium stability against bending forces, maxium tuning stability	number of posts	4
	transverse dimensions	in mm	115 x 70
Tension Collector	Metal post cap supporting all 4 posts, running through the keybed brace and connecting to the plate to secure soundboard from uncontrolled tension.		YES
Ribs	Bavarian / Bohemian, spruce, precision calibrated, precrowned, Grand Pianos notched into inner rim	number of ribs	14
	total carrying length of ribs	cm	1 259
Soundboard	Wide Body Design: (enlarged soundboard by approx. 15% compared to a standard grand piano designed in a parallel shape.		
	Bavarian / Bohemian spruce, vibration supporting internal tension		YES
	Grade of material		AAA
	3-dimensional crown		YES
	Diaphramatic cross section		YES
	Thickness of soundboard: lowest / highest	sanded in mm	6 - 9
	sound reflection bars	number of bars	1
	Vibrating area of soundboard	square centimeters	16 955

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Bridges	Mass reduced bridge (dynamic groove) is a Schimmel innovation and patented. Schimmel Konzert bridges possess a dynamic groove which makes these bridges lighter and the soundboard more flexible. This produces suprior tonal dynamics and longer sustained notes.		YES
	German solid white beech, maple capped (5), streched treble bridge, separate bass bridge, CNC** manufactured by Schimmel.		YES
	steel pins, precission fitted into maple capped bridges	number of pins	472
	Treble bridge with conical spacing of pins		YES
	Number of ribs bearing treble bridge	number of ribs	14
	Number of ribs bearing bass bridge	number of ribs	4
	Direct energy transfer from bass bridge to soundboard		YES
	German made, CAPE* designed and calculated strength, heavy duty grey iron, CNC** processed		YES
	High-strength cast-iron plate; optimized damping behaviour and FE stability		YES
	height of frame	in mm	149
Iron Plate	width of frame	in mm	1372
	length of frame	in mm	1846
	Number of plate screws in grand pianos	number of screws	14
	Number of nose bolts	number of bolts	4

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Cabinet Assembly		
LIDS	Multiple laminated (7), narrow core stock type, front lid with lock, lids with beveled edges in solid wood (grand pianos)	YES
Top Lid	Front top lid opens horizontally to the back	YES
Top Lid	Front top lid opens horizontally to the back, both top lids open simultaneously sideways (similar as with grands)	YES
Legs	Straight legs numerous plies of hard genuine wood capped twice with veneer, other legs laminated solid wood	YES
Fallboard	Schimmel soft landing fallboard, hydraulic safety feature.	YES
High gloss finish	Polyester, high gloss, high resistant to most household chemicals (coats: filler, hardener, polyester).	YES
Additional Specification		
Extended factory warranty	In addition to the warranty by law, the instruments are provided with a 5 year extended factory warranty.	YES
Environment protection	Manufactured according to Germany law of environment protection. Use of solar energy (produced at the factory / roof).	YES

*CAPE = Computer Assisted Piano Engineering / **CNC = Computer Numerical Control. A Schimmel designed software programm combining traditional know how with modern day technology.