

2020 THE ALL-NEW MACHINE STORY

KF-II Series

The Powerful VMC



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A VERTIKÁLIS MEGMUNKÁLÁS ÚJ MÉRCÉJE

GrinTech

*Technológiai tanácsadás | Programozás | Tervezés |
Szerviz | Alkatrész ellátás*

Point 1 **The latest FANUC controller**

Cutting-edge FANUC 15" touch screen controller. Conversational programming and other machining aid programs help to experience **more convenient controls and high quality machining.**



▶ **SMART GUIDE-i as standard (Conversational programming)**

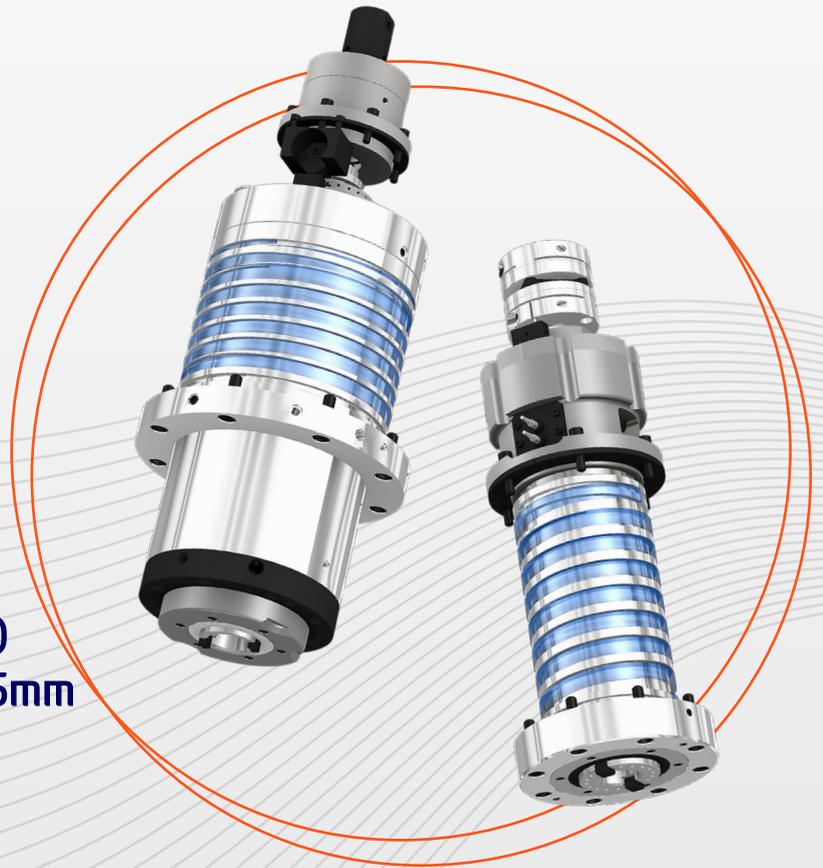
▶ **AICC-2 (200 blocks) Standard**

▶ **Part Program Storage: 5,120M (2MB)**

▶ **No. of Registerable Programs: 1,000ea**

Point 2 **Various spindle and columns**

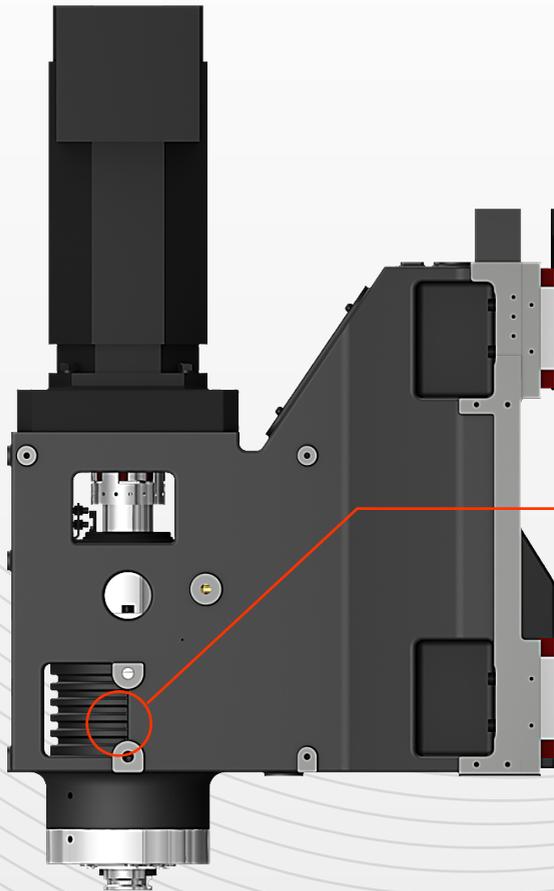
KF-II Series has various spindle options for customized machining. Moreover, one piece high column option helps processing bigger products such as rack housing. (Incomparably strong rigidity compared to the block-type High Column)



Direct Spindle: 8K(Std.) 10K,12K,15K
Built-in Spindle: 20K(KF5600/6700II)

KF5600II Column: 520mm(20.5")(Std.)
High-Column(Opt.): 635mm(25"), 935mm

Point 3 High-performance Spindle



※ Compared to the existing model

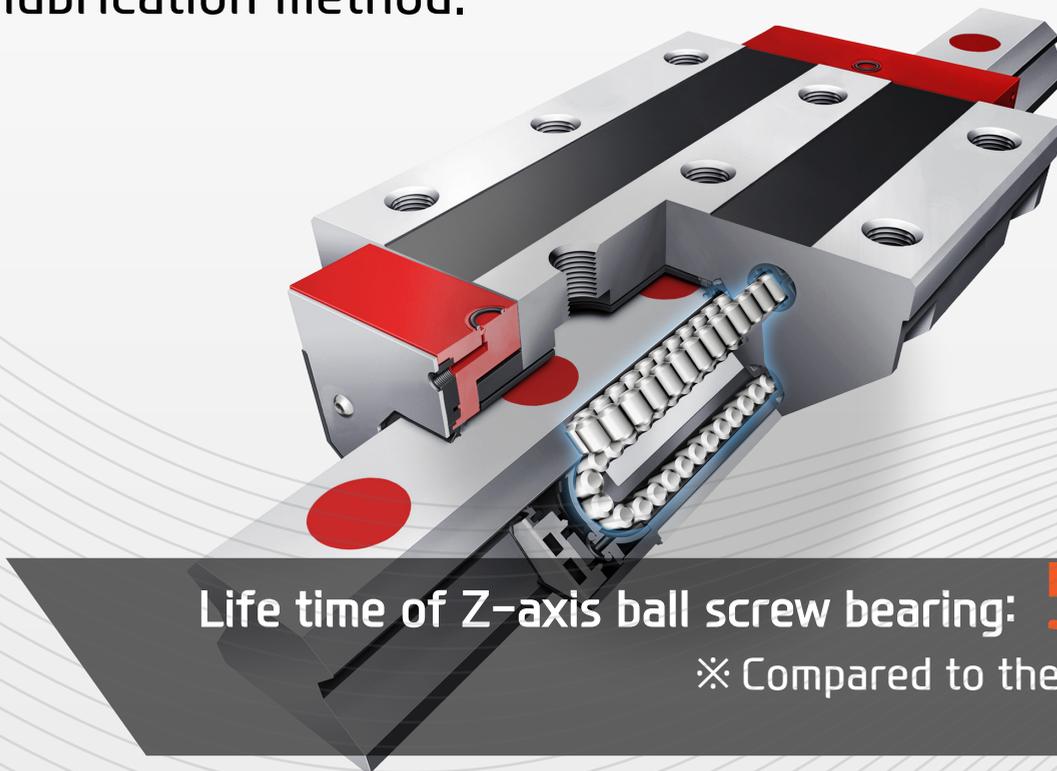
Spindle Vibration: **58%** ↓

Spindle Acc./Dec.: **19%** ↑

Greatly improved spindle vibration and acc./dec. compared to the existing model by optimizing structure of spindle. Also, heat and noise are reduced by removing the hydraulic motor (**Hybrid Tool Lock System**).

Point 4 **High-Speed Roller LM Guideway**

Linear roller guideways for reduced travel time and high rigidity. Moreover, lifetime of the bearing has been significantly increased by optimizing the spindle structure and lubrication method.



Life time of Z-axis ball screw bearing: **576%** increase
※ Compared to the previous model

3 row bearing + oil lubricated: **147%** increase in rigidity
※ Compared to the other 2 row bearing

Point 5 **Chip disposal capability**

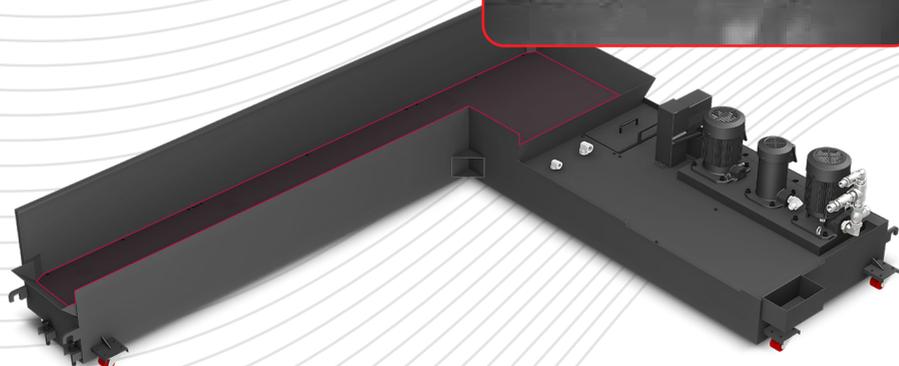
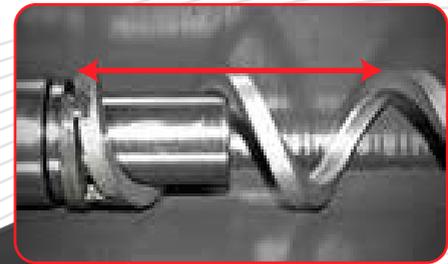
‘Upper type chip conveyor’ and ‘Interior Screw Chip Conveyor’ are standard for efficient chips removal generated during machining. Furthermore, chip disposal capability has been significantly improved due to optional bed-flushing coolant.

Coolant tank : KF4600II – 340L
KF5600II,6700II – 365 L

※ **Options: Bed Flushing Coolant, Gun Coolant, Air Gun**

※ **Screw Chip Conveyor:**

※ **Forward / Backward rotation function**



Specification (1/3) - KF4600II

ITEM	KF4600II	
Table Size (L × W)	mm(in)	1,050×460 (41.3"×18.1")
Maximum Load Capacity	kg(lb)	600 (1,323)
Spindle Taper	-	BBT40 [12K,15K : HSK-A63]
Max.Spindle Speed	r/min	8,000(STD) [10K,12K,15K,]
Spindle Power (Max./Cont.)	kW(HP)	18.5/11 (25/15)
Number of Tools	EA	30[40]
Travel (X/Y/Z)	mm(in)	900/460/520 (35.4"/18.1"/20.5")
Rapid Traverse Rate (X/Y/Z)	m/min (ipm)	36/36/30 (1,417/1,417/1,181) [42/42/36 (1,654/1,654/1,417)]

※ For more information, please refer to the catalogue on our website.
<http://machine.hyundai-wia.com/>

Specification (2/3) - KF5600II

ITEM		KF5600II	
Table Size (L × W)	mm(in)	1,250×560 (49.2"×22")	
Maximum Load Capacity	kg(lb)	1,000 (2,205)	
Spindle Taper	-	BBT40 [12K, 15K, 20K : HSK-A63]	
Max.Spindle Speed	r/min	8,000(STD) [10K,12K,15K,20K]	
Spindle Power (Max./Cont.)	kW(HP)	18.5/11 (25/15)	
Number of Tools	EA	30[40]	
Travel (X/Y/Z)	mm(in)	1,100/560/520 [635] (43.3"/22"/20.5"[25"])	
Rapid Traverse Rate (X/Y/Z)	m/min (ipm)	36/36/30 (1,417/1,417/1,181) [42/42/36 (1,654/1,654/1,417)]	

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Specification (3/3) - KF6700II

ITEM		KF6700II	
Table Size (L × W)	mm(in)	1,500×670 (59"×26.4")	
Maximum Load Capacity	kg(lb)	1,300 (2,866)	
Spindle Taper	-	BBT40 [12K,15K,20K : HSK-A63]	
Max.Spindle Speed	r/min	8,000(STD) [10K,12K,15K,20K]	
Spindle Power (Max./Cont.)	kW(HP)	18.5/15 (25/20)	
Number of Tools	EA	30[40]	
Travel (X/Y/Z)	mm(in)	1300/670/635 (51.2"/26.4.1"/25")	
Rapid Traverse Rate (X/Y/Z)	m/min (ipm)	36/36/30 (1,417/1,417/1,181) [42/42/36 (1,654/1,654/1,417)]	

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