

機械選択情報 Machinery Sale Information



CMC CO., LTD

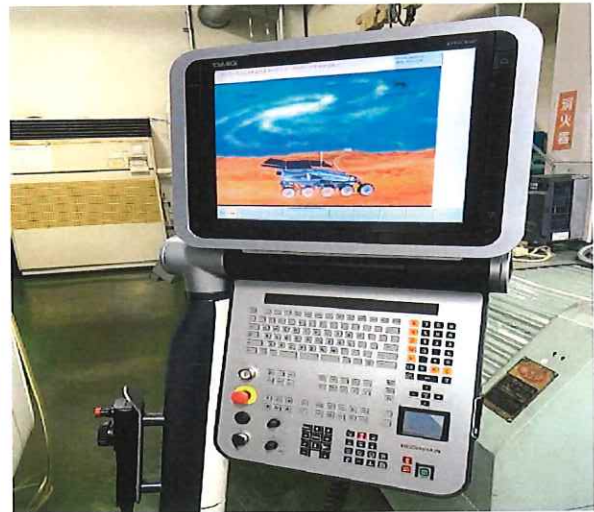
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Date:2023.Nov.10



Listing No.23403

DMG-MORI	5 Axis Vertical Machinig Center	HSC55V Linear Heidenhain / iTNC530	2009 / Sep <#29176040824>
<b>■ MAIN SPECIFICATIONS ■</b>			
5軸立形マシニングセンター テーブル: 400 x 400x 200kg S: X450 / Y580 / Z460 A+5+/-110° / C360° ATC30 / HSK-E50 主軸回転数: 42,000 RPM 5軸高精度パッケージ チップコンベア 制御軸数: (X/Y/Z/B/C) 同時制御軸: 5軸 機械重量: 17,000kg		5 Axis Ver.Machining Center Table Size: 400 x 400 x 200kg Stroke: X450 / Y580 / Z460 A+10°/-110°/ C360° ATC30 / HSK-E50 Spindle Speed : 42,000RPM Optional 5-Axis MC With water Cooled With Chip Conveyor Number of Simultaneous Axes: 5 Axis Machine Weight: 17,000kg	
※注記		<< 機械仕様等については現物優先となります >> << Regarding machine specifications, etc., priority will given to the actual product >>	



## 納入仕様明細書

DMG-MORI 5軸加工機 / 5 Axis Vertical Machining Center

&lt; HSC-55V linear &gt;

【 2009年9月 / Heidenhain / iTNC530 】

## &lt; A &gt; ◇\_テーブル

No	項目	仕様	
1	・チャック面 NC制御テーブル寸法	400 x 400	mm
2	・移動量(テーブル前後) X	450	mm
3	・移動量(主軸頭上下) Y	580	mm
4	・移動量(テーブル左右) Z	400	mm
5	・移動量(旋回軸) A/B	+10 / -110	°
6	・移動量(回転軸) C	360	°
7	・ワークの最大重量	200	Kg

## &lt; B &gt; ◇\_主軸

1	・主軸回転数	42,000	rpm
2	・駆動出力	45,212	kw
3	・トルク	45,144	Nm
4	・最大送り速度	80,000	mm/min

## &lt; C &gt; ◇\_自動工具交換装置

1	・ツールシャンク形式	HSK-E50
2	・工具収納個数	60
3	・工具最大長さ	250
4	・工具最大直径	80

## &lt; D &gt; ◇\_特別付属品

1	・5軸高精度パッケージ付
2	・チップコンベア
3	・インナークーラント装置付
4	・外部オイルミスト装置付
5	・ミストコレクター付
6	・電圧低下安全仕様
7	・オペレーションモード4付
8	・自動電源遮断装置付
9	・メンテナンスオイル一式
10	・機械重量:17,000 Kg



Applications and parts

Machine and technology

> HSC 55 *linear*

ULTRASONIC

Control technology

Technical data

HSC 55 *linear*

## Highest performance during HSC machining due to outstanding precision and dynamics

The combination of highly stable design, state-of-the-art drive technology and high-end spindle technology provides the HSC 55 *linear* with unrivalled performance during fine machining. The outstanding dynamics and precision of the HSC 55 *linear* are based on the machine bed made of mineral cast in gantry design. The thermo-symmetric design ensures high long-term accuracy. Linear drives in all axes enable rapid traverses up to 80 m/min and > 1.3g acceleration. The standard version with 28,000 rpm HSC spindle, combined with HSK-A63 holders, already not only guarantees improved service life of the tools, but also improved surface qualities with at the same time highest chip removal rate in this precision class.

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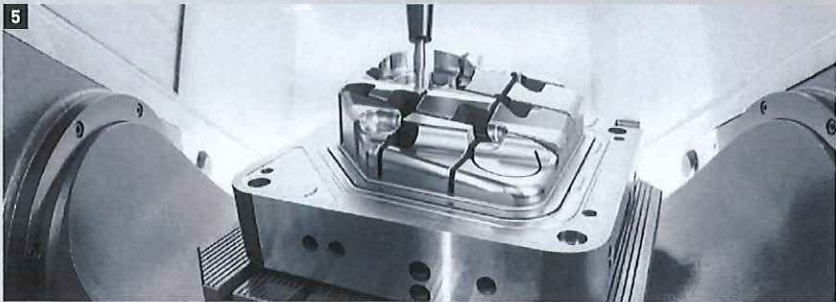
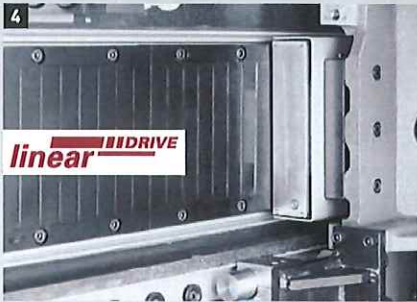
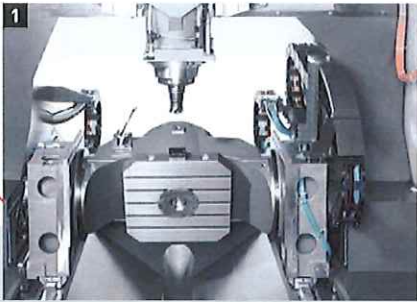


HSC 55 *linear*

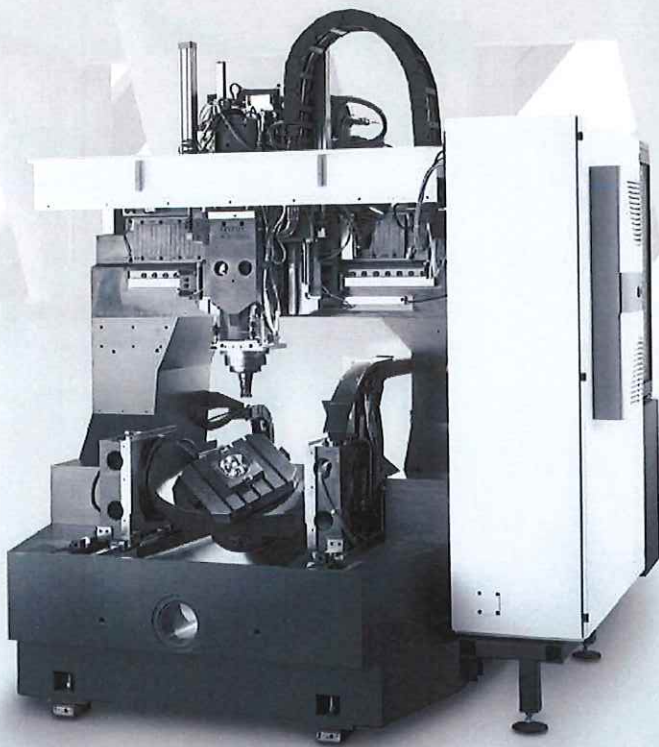
5-axis simultaneous machining with NC swivelling/  
rotary table with gantry drive in the Y-axis.

**linear** **DRIVE**





1: Thermo-symmetric gantry design 2: Tool magazine with double gripper 3: 5-axis simultaneous machining of an injection mould made of hardened steel 4: Linear drives in X/Y/Z with > 1.3g 5: 5-axis machining: integrated NC swivelling rotary table with torque drives

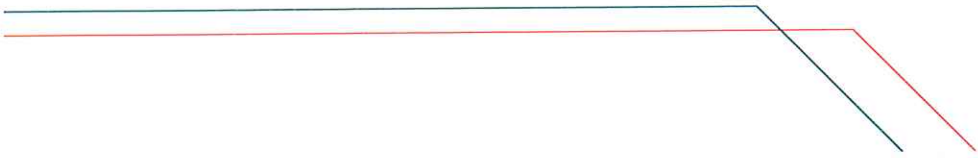


### HSC 55 *linear*

Machine bed made of cast mineral  
in thermo-symmetric gantry design

### HIGHLIGHTS HSC 55 *linear*

- + **Highest dynamics and precision** due to linear drives in all axes
- + **28,000 rpm HSC spindle** with HSK as standard: high stability during machining, improved service life of tools/lower tool costs, optimised surfaces
- + **High-performance spindle** with 40,000 rpm and HSK-E50 (optional)
- + **Optional integration of ULTRASONIC technology**
- + **Optimum work area design for HSC and graphite machining** – complete drives and guides outside the work area
- + **Thermo-symmetric design** for highest long-term accuracy
- + **Optional 5-axis machining** with water-cooled torque drives
- + **16-station tool changer** as standard (option: 30/60/120)
- + **DMG MORI ERGOline control** with 19" screen and 3D software
- + **Special control features (for fine machining):** ATC (Application Tuning Cycle), AAC (Automatic Acceleration Control), AFC (Automatic Feedrate Control)



HSC 20 linear	HSC 55 linear	HSC 75 linear	HSC 105 linear
200	450	750 (885)**	1,050 (1,110)**
220	580 (650)**	600	800
280	460	560 (600)**	560 (600)**
-15/+130	+10/-110	-10/+110	-10/+110
360	360	360	360
42,000	28,000	18,000	18,000
18.8/15	38/28 (35/27)	35/25	35/25
7.5/6	33/24.5 (48/38)	130/87	130/87
HSK-E32	HSK-A63	HSK-A63	HSK-A63
42,000	18,000*	28,000*	28,000*
18.8/15	41/30	55/43.5	55/43.5
7.5/6	71/52	47.8/38	47.8/38
HSK-E40	HSK-A63	HSK-A63	HSK-A63
60,000	40,000*	40,000*	40,000*
10/6.8	13/10	12/10	12/10
4.8/6	7.6/6.4	7.6/6.4	7.6/6.4
HSK-E32	HSK-E50	HSK-E50	HSK-E50
40,000	80,000	90,000	90,000
40/40/40	80/80/80	90/90/90	90/90/90
450×400	460×600	950×650	1,200×850
100	600	1,000	1,300
∅250	400×400	∅750	∅950
200	110	100	100
15	200	800	800
>2	>1.3	up to 1	up to 1
24 (60)*	16 (30/60/120)*	30 (60/120/150/180)*	30 (60/120/150/180)*
200	250	300	300
30	80	80/140	80/140
7	8	6	6
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SIEMENS 840D solutionline, HEIDENHAIN iTNC 530			
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