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CE

KKL Vertical Milling Centers

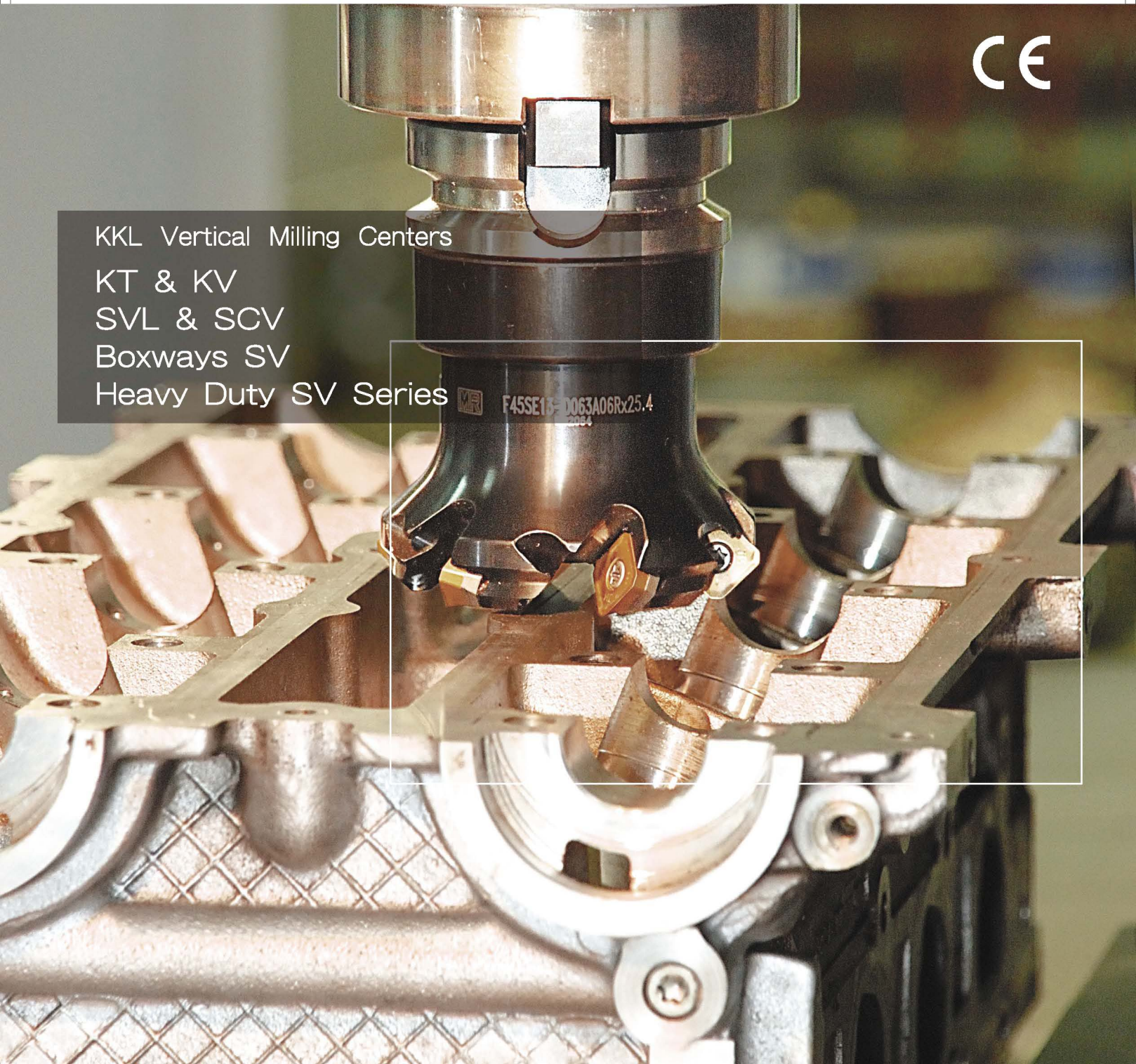
KT & KV

SVL & SCV

Boxways SV

Heavy Duty SV Series

F45SE13-0063A06Rx25.4
2004



High Speed KT & KV Series

SPECIFICATION

Model	Unit	KT5	KT6	KV5	KV6
Guideway construction	(X/Y/Z axis)	Linear way	Linear way	Linear way	Linear way
Controller	type	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
Travel					
X axis	mm	500	600	500	600
Y axis	mm	400	400	400	400
Z axis	mm	300	300	450	450
Spindle nose to table	mm	200-500	200-500	170-620	170-620
Spindle center to column	mm	440	440	505	505
Rapid traverse X/Y/Z	m/min	48/48/48	48/48/48	48/48/48	48/48/48
Table					
Size	mm	620 x 420	700 x 420	620 x 420	700 x 420
T-slots (W x D x No.)	mm	18 mm x 125 mm x 3	18 mm x 125 mm x 3	18 mm x 125 mm x 3	18 mm x 125 mm x 3
Max loading capacity	kg	250	300	250	350
Spindle					
Spindle taper	type	MAS-BT30	MAS-BT30	MAS-BT30	MAS-BT40
Spindle speed	rpm	Belt 10,000	Belt 10,000	Belt 10,000	Belt 10,000
No. of tool positions (Opt.)		BT30	BT30	BT30	BT40
Tools					
No. of Tools / ATC	type	Tapping	Tapping	20 / Rotary disc	16 / Rotary disc
T to T	sec	2	2	2	2
No. of Tools / ATC	type	12 / 14 (Opt.)	12 / 14 (Opt.)	20 / Arm (Opt.)	16 / Arm (Opt.)
T to T	sec	0.8	0.8	0.8	0.8
Motor					
Spindle motor	kw	3.7	3.7	3.7	SJ-V 5.5
X servo motor	kw	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)
Y servo motor	kw	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)	HF154T / 1.5 (ABS)
Z servo motor	kw	HF154BT/1.5(ABS)	HF154BT/1.5(ABS)	HF204BT/2.0(ABS)	HF204BT/2.0(ABS)
Accuracy					
Positioning	mm	±0.004 (VDI 3441)	±0.004 (VDI 3441)	±0.004 (VDI 3441)	±0.004 (VDI 3441)
Repeatability	mm	±0.002 (VDI 3441)	±0.002 (VDI 3441)	±0.002 (VDI 3441)	±0.002 (VDI 3441)
Miscellaneous					
Machine height	mm	2090	2090	2290	2290
Machine length x width	mm	1950 x 2130	1950 x 2130	1950 x 2130	1950 x 2130
Machine weight	kg	2600	2600	2800	3000

STANDARD ACCESSORIES

- Heat exchanger
- 36W work lamp
- Full splash guard
- Screw type chip conveyor
- 3 Color light
- Hiwin linear guides
- Spindle oil cooler unit
- Auto power off device
- Air blast device
- Rigid tapping

OPTIONAL ACCESSORIES

- Heidenhain controller
- Siemens controller
- Fanuc controller
- Selca controller
- Fagor controller
- Chip clean & spray gun
- Spindle:
 - BT30-12,000/15,000 rpm
 - BT40-12,000/15,000 rpm
- 4/5th Axis indexing table
- Oil water separator
- Absolute linear scale
- THK linear guides
- Spindle taper:
 - BT/CAT/DIN/HSK

* Design and specification are subject to change prior notice. * OEM / Customized design is available.

KT Series



Machining Report

Machining for: mold / die, 3C, optical, automotive, vehicle, aerospace, and other dynamic industries

Machining Condition: Spindle—Belt type, BT40-8,000 rpm

Spindle Motor: 7.5 / 11kw

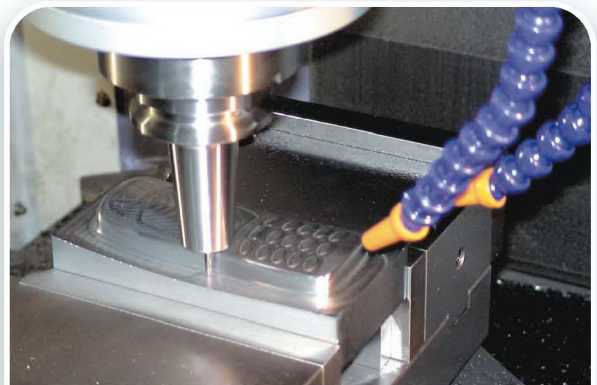
Face milling—S50C Steel



Chip elimination: 192 cc/min
Tool: Ø63 mm×6T
Spindle rotating speed: 1,500 rpm
Feeding: 800 mm/min
Cutting width: 60 mm
Cutting depth: 4 mm
Spindle load: 113%

■ Machining video is shown in CD

3D mold for cell phone—NAK80



Tool: Ø4R1
Spindle rotating speed: 8,000 rpm
Feeding: 3,000 mm/min

■ Machining video is shown in CD

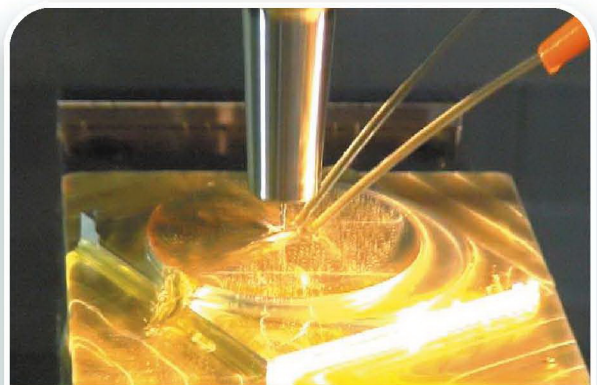
Tapping—S50C Steel



Tool: M24×3P
Spindle rotating speed: 80 rpm
Feeding: 240 mm/min
Spindle load: 68%

■ Machining video is shown in CD

Tapping—AL Aluminum

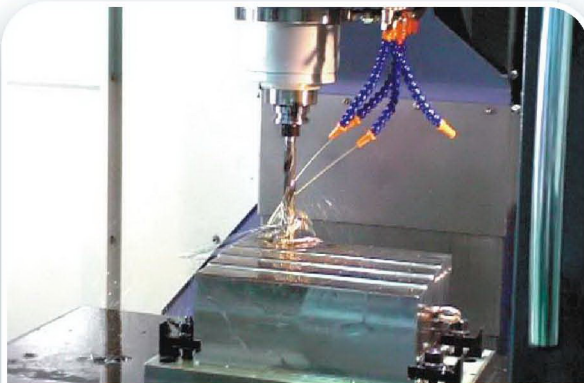


Tool: 0#80UNF
Spindle rotating speed: 1,200 rpm
Feeding: 381 mm/min

■ Machining video is shown in CD

Above cutting numbers are only for your reference.
To obtain most efficient machining, the tools are used under ultimate condition.
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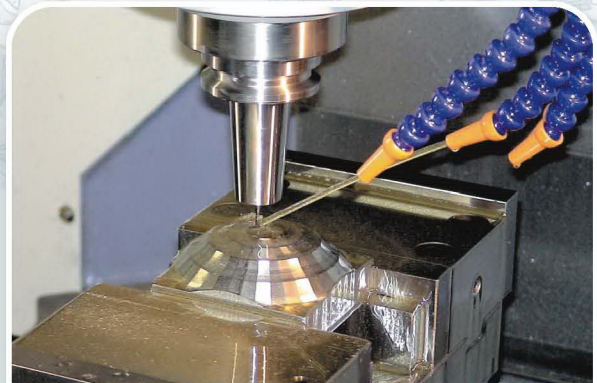
Drilling—S50C Steel



Chip elimination: 126 cc/min
Tool: Ø29.5 mm×2T
Spindle rotating speed: 272 rpm
Feeding: 65 mm/min
Spindle load: 100%

■ Machining video is shown in CD

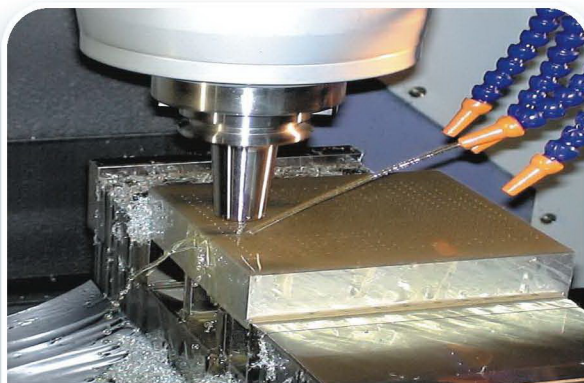
3D mold for automobile headlight



Material: NAK80
Tool: Ø3R1.5
Spindle rotating speed: 8,000 rpm
Feeding: 3,000 mm/min

■ Machining video is shown in CD

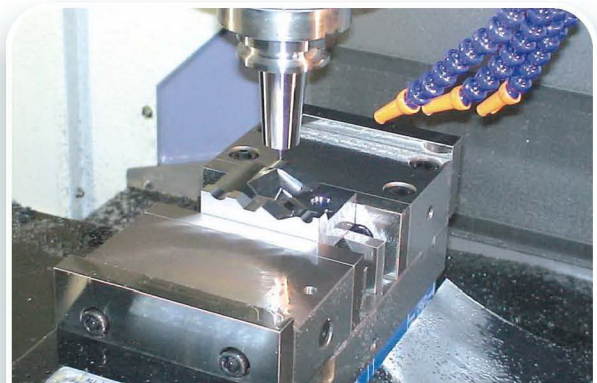
Tapping 500 bores —AL Aluminum



Tool: 0#80UNF
Spindle rotating speed: 1,200 rpm
Feeding: 381 mm/min

■ Machining video is shown in CD

3D mold for test —NAK80



Tool: Ø4R1
Spindle rotating speed: 8,000 rpm
Feeding: 3,000 mm/min

■ Machining video is shown in CD

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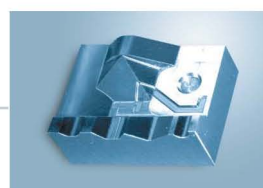
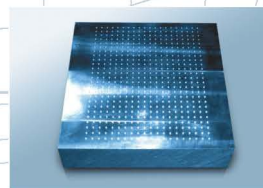
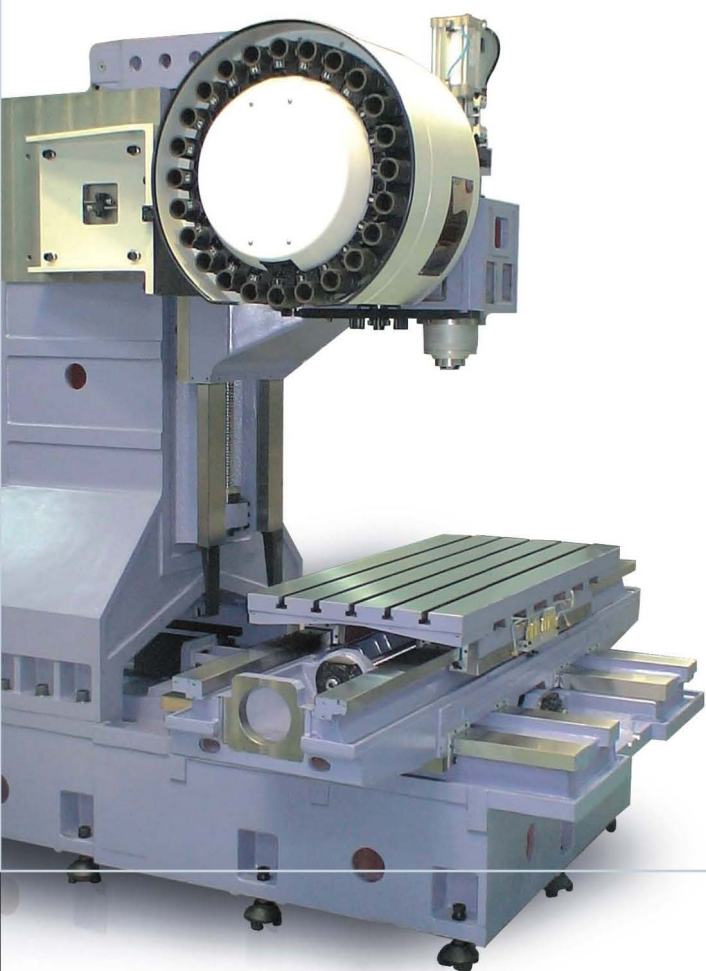
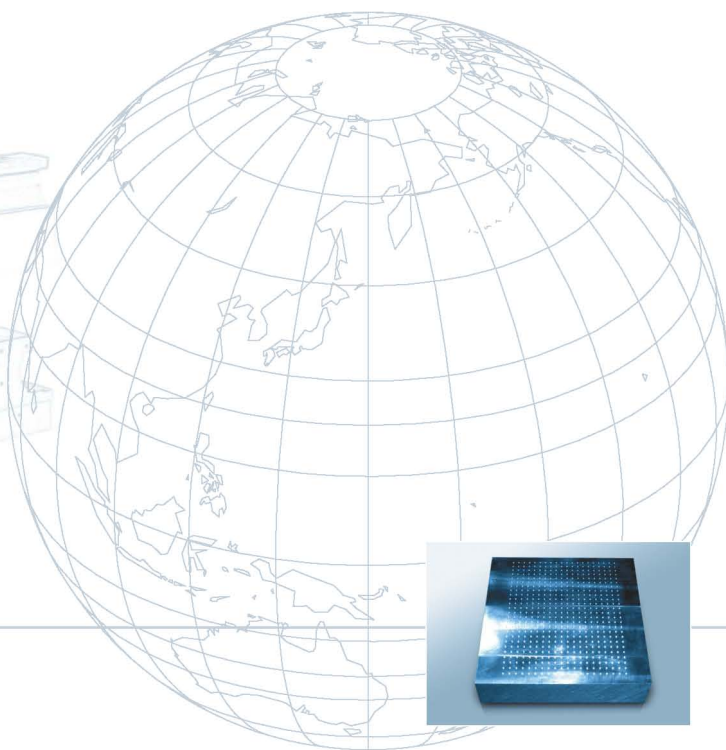
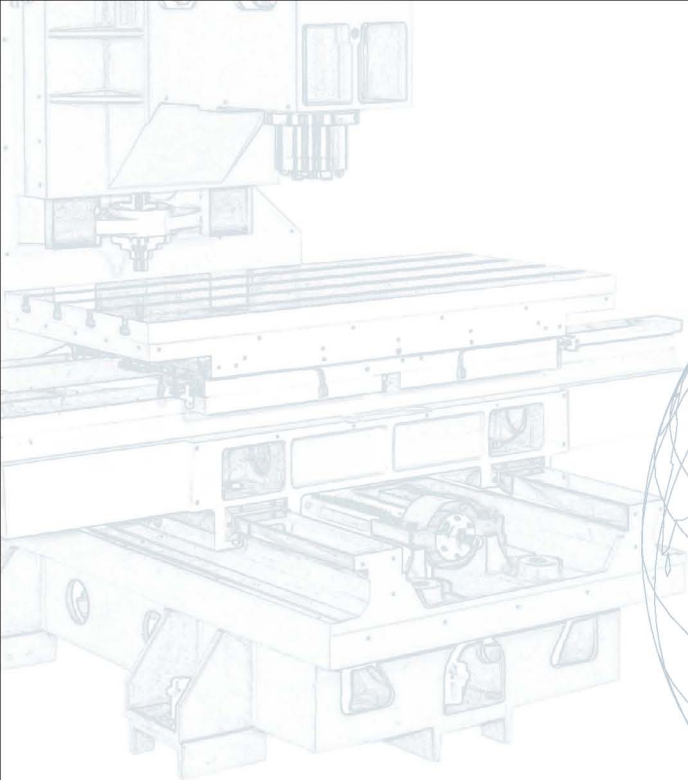
No.424, TA CHEE ROAD, TAICHUNG 401, TAIWAN

TEL: 886-4-22810688 FAX: 886-4-22817958

E-mail: sales@kkl-cnc.com.tw

<http://www.kkl-cnc.com.tw>

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No. 424, Ta Chee Rd., Taichung 401, Taiwan

Tel: 886-4-22810688 Fax: 886-4-22817958

e-mail: sales@kk1-cnc.com.tw

Website: www.kk1-cnc.com.tw