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KKL Vertical Milling Centers

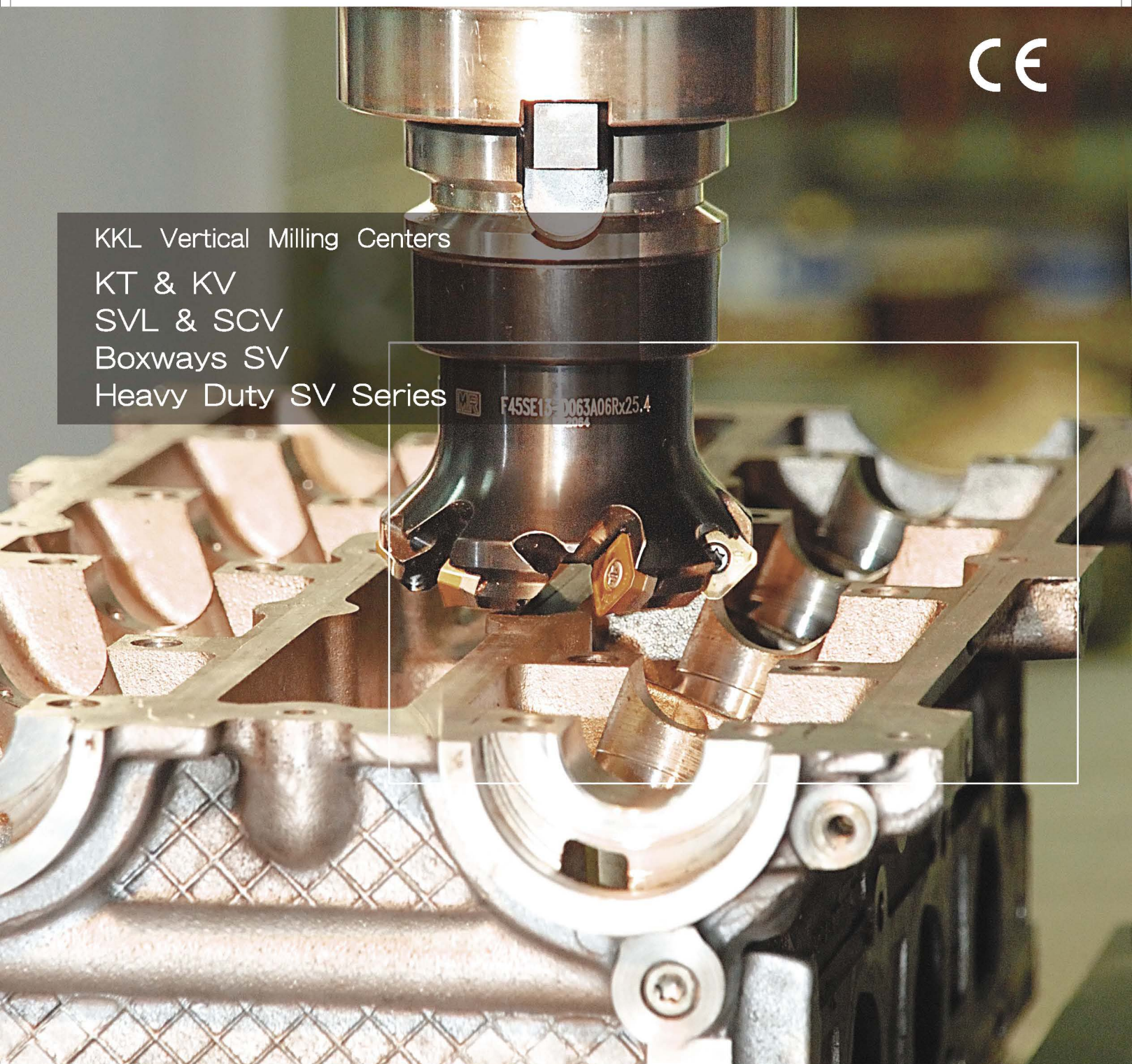
KT & KV

SVL & SCV

Boxways SV

Heavy Duty SV Series

F45SE13-0063A06Rx25.4
2004



SPECIFICATION

Model	Unit	SVL-800	SVL-855	SVL-1055	SVL-1200	SCV-855	SCV-1055
Guideway construction	(X/Y/Z axis)	Linear way	Linear way	Linear way	Linear way	Boxways	2/ (4) Boxways
Controller	type	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
Travel							
X axis	mm	800	850	1050	1200	850	1050
Y axis	mm	500	550/ (600)	550/ (600)	600	550/ (600)	550/ (600)
Z axis	mm	500	550/ (600)	550/ (600)	600	550/ (600)	550/ (600)
Spindle nose to table	mm	120-620	120-670	120-670	120-720	120-670	120-670
Spindle center to column	mm	500	610	610	680	610	610
Table							
Size	mm	900 x 450	1000 x 550	1200 x 550	1400 x 610	1000 x 550	1200 x 550
T-slots (W x D x No.)	mm	16 x 95 x 4	18 x 125 x 4	18 x 125 x 4	18 x 100 x 5	18 x 125 x 4	18 x 125 x 4
Max loading capacity	kg	400	500	600	800/ (1000)	500	600
Spindle							
Spindle speed	rpm	Belt 60-8,000	Belt 60-8,000	Belt 60-8,000	Belt 60-8,000	Belt 60-8,000	Belt 60-8,000
Spindle motor	kw	5.5/7.5	5.5/7.5	7.5/11	7.5/11 (11/15)	5.5/7.5	7.5/11
X/Y/Z axis servo motor	kw	1.5/1.5/2	2/2/2	2/2/2		2/2/2	2/2/2
Spindle nose taper	type	BT40	BT40	BT40	2/2/2 (2/2/3.5)	BT40	BT40
Rapid feed rate of X/Y/Z	m/min	36/36/30	36/36/30	36/36/30	30/30/24	15/15/16	15/15/16
Cutting feed rate	m/min	1-10	1-10	1-10	1-10	1-10	1-10
Tools							
No. of Tools / ATC	type	16/Armless	20 (24) /Armless	20 (24) /Armless	20 (24) /Armless	20 (24) /Armless	20 (24) /Armless
Max tool weight	kg	7	7	7	7	7	7
Max tool length	mm	200	250	250	250	250	250
Max tool diameter	mm	75	75	75	75	75	75
T to T	sec	1.8	1.8	1.8	1.8	1.8	1.8
Miscellaneous							
Air source	kg/cm ²	6	6	6	6	6	6
Machine height	mm	2260	2500	2500	2500	2500	2500
Machine length x width	mm	2200 x 2200	2800 x 2200	2800 x 2200	3200 x 2200	2800 x 2200	2800 x 2200
Machine weight	kg	3900	5800	6000	7000/ (7500)	5900	6100

* Symbol()represents optional accessories.

* Design and specification are subject to change prior notice.

* OEM / Customized design is available.

STANDARD ACCESSORIES

- Armless type ATC
- Full-chip enclosures
- Spindle air blast system
- Heat exchange in control box
- Spindle BT40-8,000 rpm
- Working light
- Coolant pump
- Operator indication lamp
- Spindle arbor cleaning
- Tool box

OPTIONAL ACCESSORIES

- Controller: Heidenhain / Siemens
- Controller: Fanuc / Selca / Fagor
- Spindle automatic oiling device
- Arm type ATC
- 4th axis NC rotary table
- Chip conveyor
- Spindle speed 10,000/12,000 rpm
- Spindle: Direct couple 10,000/12,000/15,000 rpm
- Built-in 16,000/24,000/30,000 rpm
- Optical scale
- Transformer
- PL waterproof fluorescent worklight
- BED shower

SVL 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

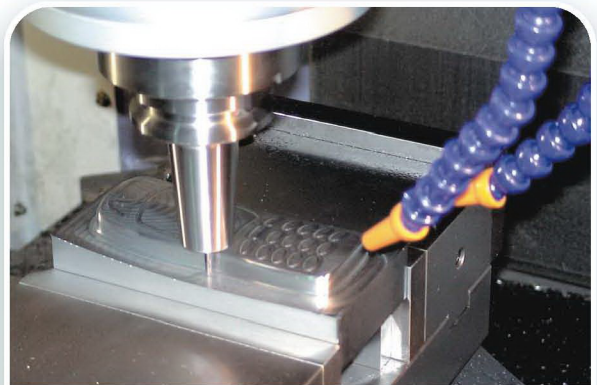
Face milling—S50C Steel



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

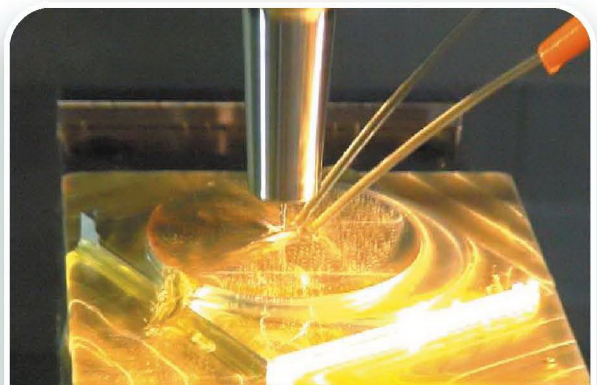
Tapping—S50C Steel



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

■ Machining video is shown in CD

Tapping—AL Aluminum

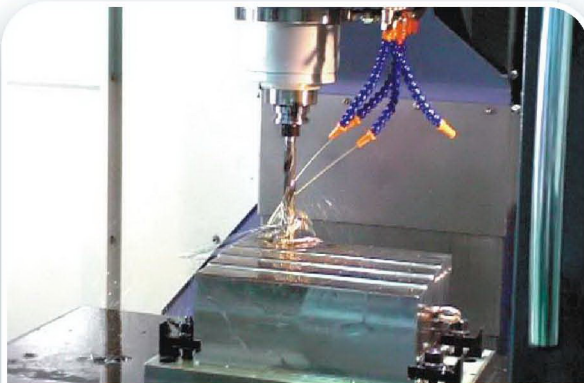


Tool: 0#80UNF
Spindle rotating speed: 1,200 rpm
Feeding: 381 mm/min

■ 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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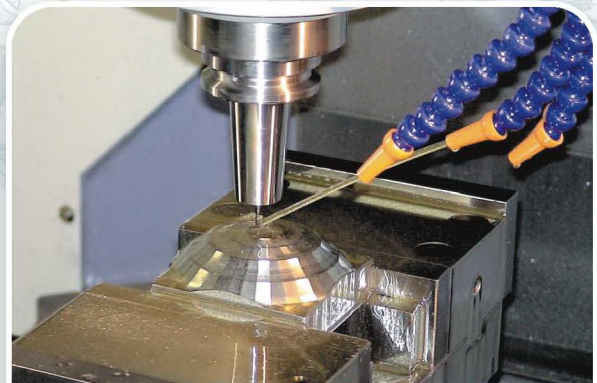
Drilling—S50C Steel



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

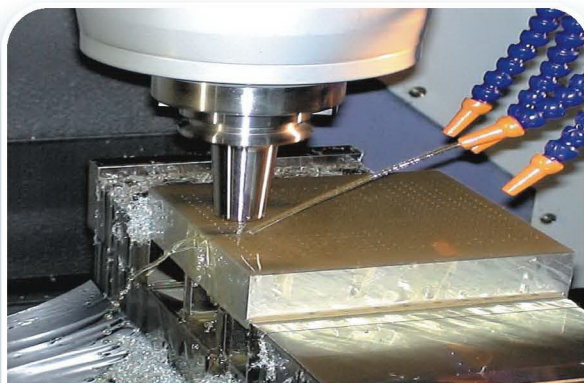
3D mold for automobile headlight



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

■ Machining video is shown in CD

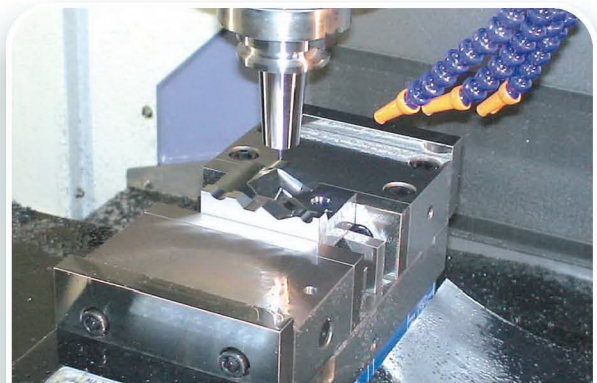
Tapping 500 bores —AL Aluminum



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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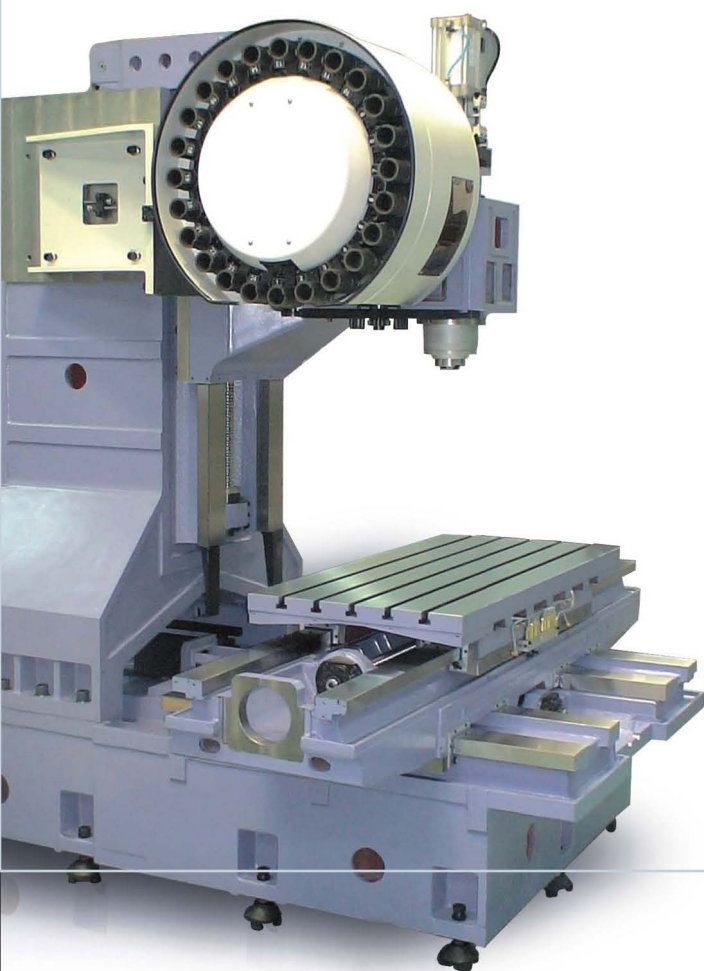
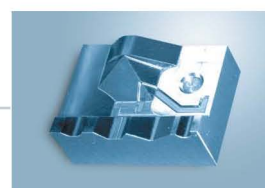
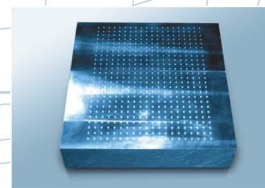
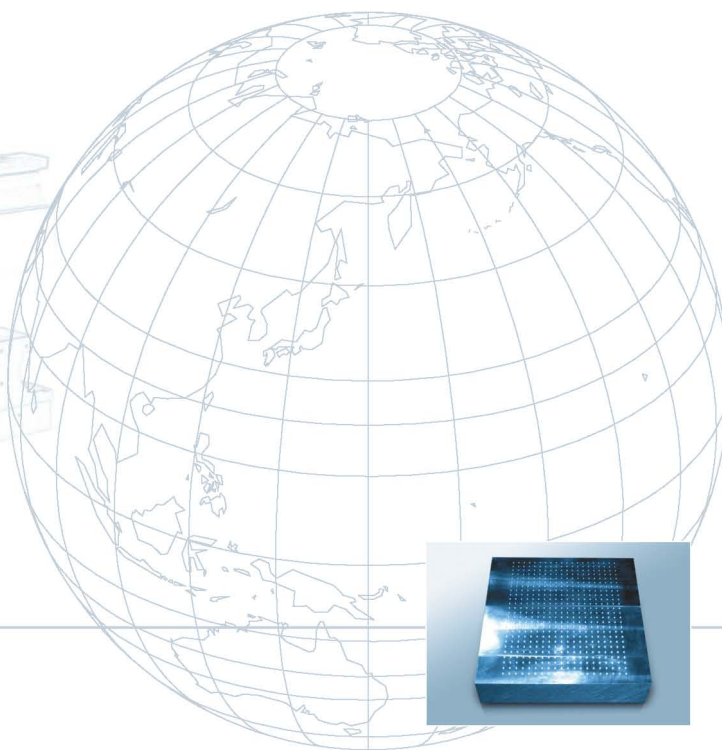
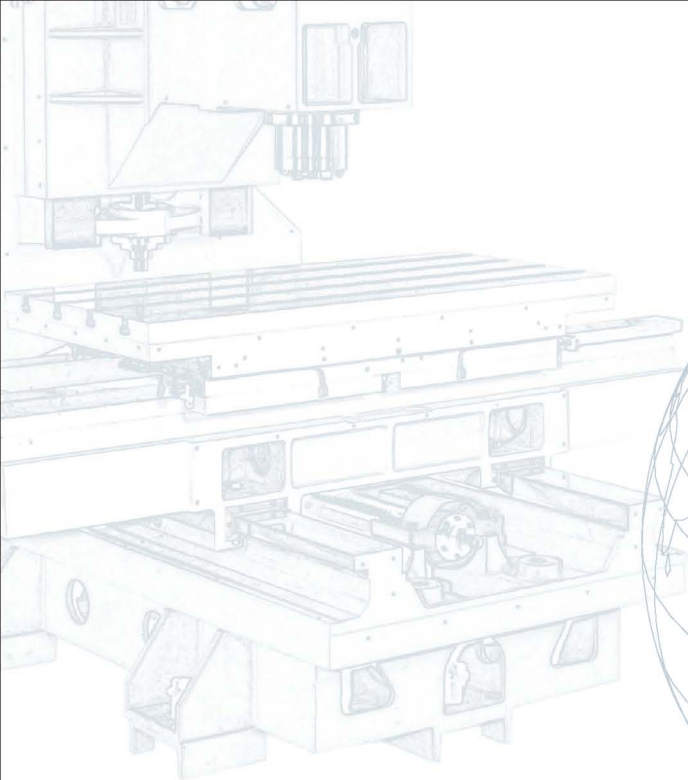
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