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KKL- We make machines,
You make money.

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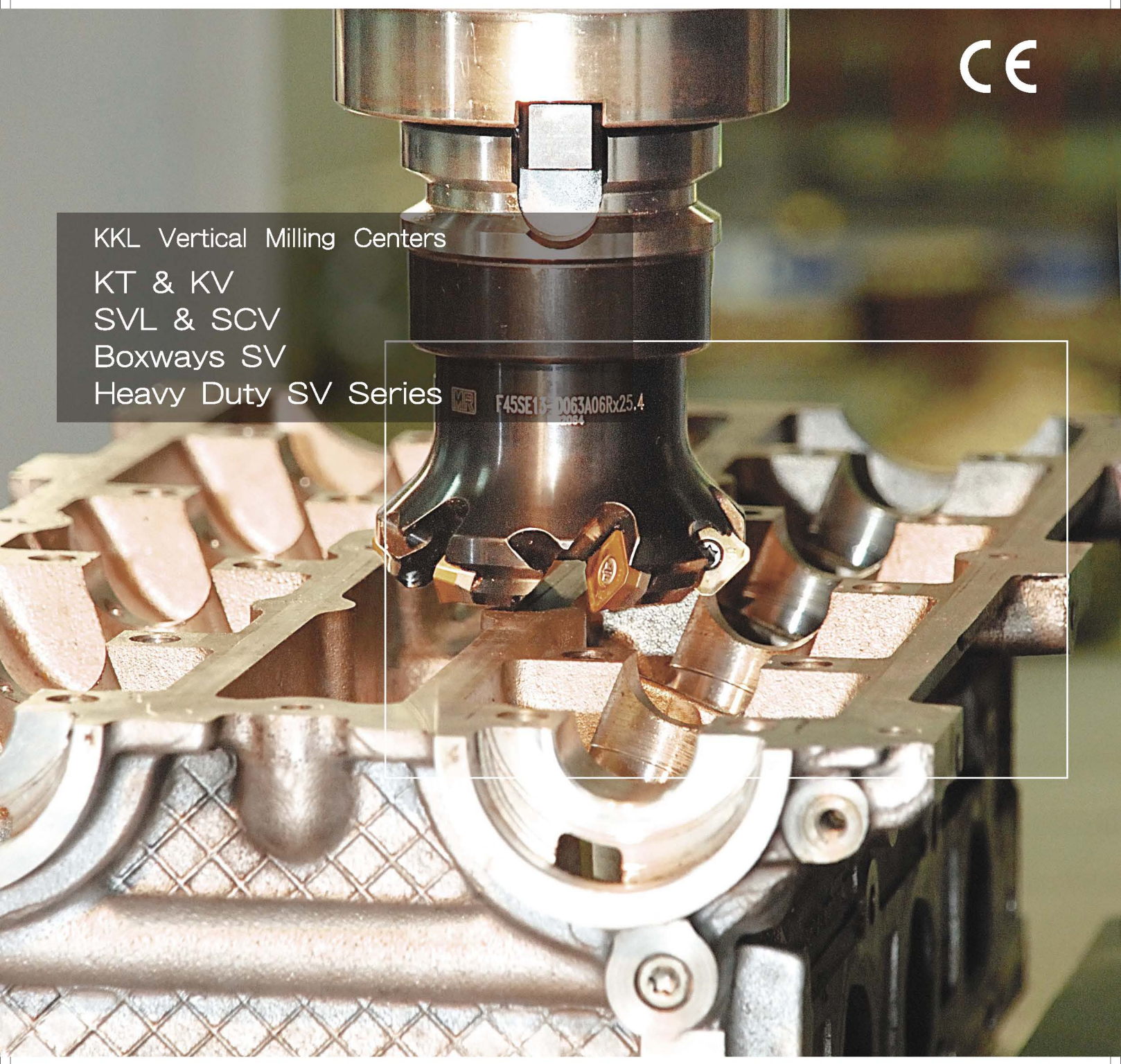


KKL Vertical Milling Centers

KT & KV
SVL & SCV
Boxways SV
Heavy Duty SV Series

Rigid Four Hard Boxways SV Series

SPECIFICATION

Model	Unit	SV-850	SV-1050	SV-1250	SV-1400
Guideway construction	(X/Y/Z axis)	integral cast iron 4 boxways-flame hardened and ground			
Controller	type	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
Travel					
X axis	mm	850	1050	1250	1400
Y axis	mm	625	625	625	625
Z axis	mm	625	625	625	625
Spindle nose to table	mm	120-745	120-745	120-745	120-745
Spindle center to column	mm	660	660	660	660
Table					
Size	mm	1050 x 600	1120 x 600	1320 x 600	1350 x 600
T-slots (W x D x No.)	mm	18 x 100 x 5	18 x 100 x 5	18 x 100 x 5	18 x 100 x 5
Max loading capacity	kg	850	1000	1200	1295
Spindle					
Spindle speed	rpm	Belt 65-8,000	Belt 65-8,000	Belt 65-8,000	Belt 65-8,000
Spindle motor	kw	7.5/11 (11/15)	7.5/11 (11/15)	7.5/11 (11/15)	7.5/11 (11/15)
X/Y/Z axis servo motor	kw	3/3/3	3/3/3	3/3/3	3/3/3
Spindle nose taper	type	BT40/ (BT50)	BT40/ (BT50)	BT40/ (BT50)	BT40/ (BT50)
Rapid traverse of X/Y	m/min	20,000	20,000	20,000	20,000
Rapid traverse of Z	m/min	18,000	18,000	18,000	18,000
Cutting feed rate of X/Y/Z	m/min	1-10,000	1-10,000	1-10,000	1-10,000
Tools					
No. of Tools / ATC	type	24 (30) /Armless	24 (30) /Armless	24 (30) /Armless	24 (30) /Armless
Max tool weight	kg	8	8	8	8
Max tool diameter	mm	90/ (150)	90/ (150)	90/ (150)	90/ (150)
Accuracy					
Positioning	mm	±0.005 (VDI 3441)	±0.005 (VDI 3441)	±0.005 (VDI 3441)	±0.005 (VDI 3441)
Repeatability	mm	±0.003 (VDI 3441)	±0.003 (VDI 3441)	±0.003 (VDI 3441)	±0.003 (VDI 3441)
Miscellaneous					
Machine height	mm	2806	2806	2806	2806
Machine length x width	mm	3763 x 2560	3763 x 2560	4178 x 2560	4328 x 2560
Machine weight	kg	7200	7500	8000	8500

STANDARD ACCESSORIES

- Automatic lubrication system
- Air blast through spindle
- Spindle air purge system
- Screw type chip conveyor
- Full splash guard
- Rigid tapping
- Auto power off device
- Heat exchanger in control box
- 3 color warning light
- Tool box and blocks
- Spindle oil cooler unit
- RS-232 interface
- Operation manual

OPTIONAL ACCESSORIES

- CE regulation
- Coolant through spindle (CTS)
- Adding 4th axis interface
- CNC rotary table
- Spindle:
  BT40-10,000/12,000/15,000 rpm
  BT50-6,000/8,000/10,000 rpm
- Linear scale
- Oil mist unit
- Arm type ATC (24 or 30 tools)
- Link type chip conveyor and bucket
- ZF 2 speed gear box
- Tool length measure mount
- Work piece measurement
- Transformer

* Symbol( )represents optional accessories. * Design and specification are subject to change prior notice.
* OEM / Customized design is available. * Wider selection CNC controllers: Heidenhain / Fanuc / Siemens / Fagor / Selca.

Rigid Four Hard Boxways SV 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

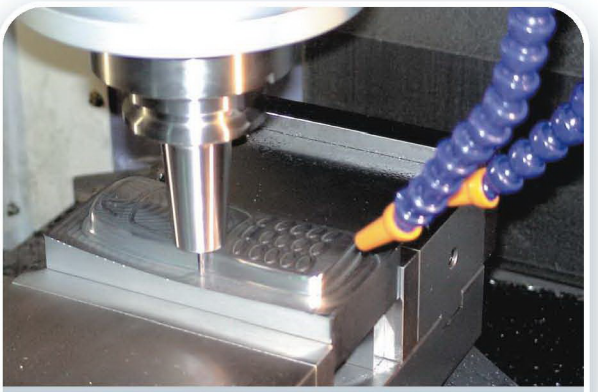
Spindle Motor: 7.5 / 11kw

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

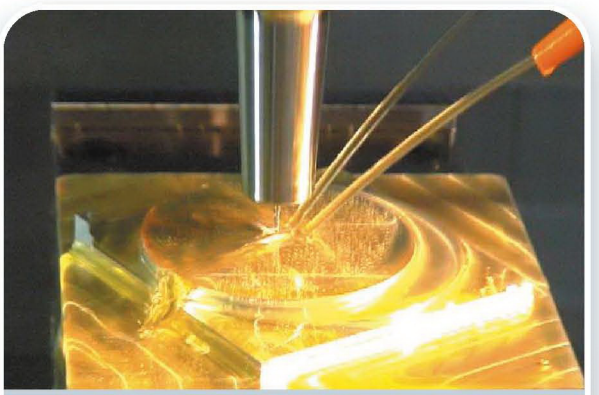
▪ Machining video is shown in CD

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

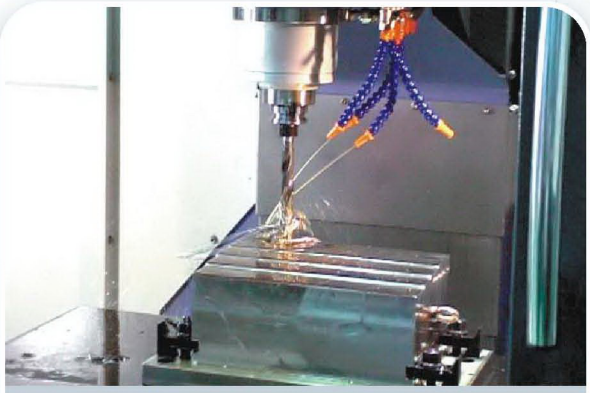


Tool: 0#80UNF
Spindle rotating speed: 1,200 rpm
Feeding: 381 mm/min

▪ 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.

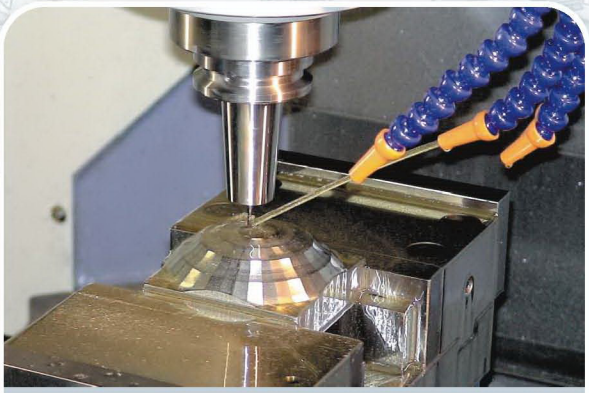
Drilling—S50C Steel



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

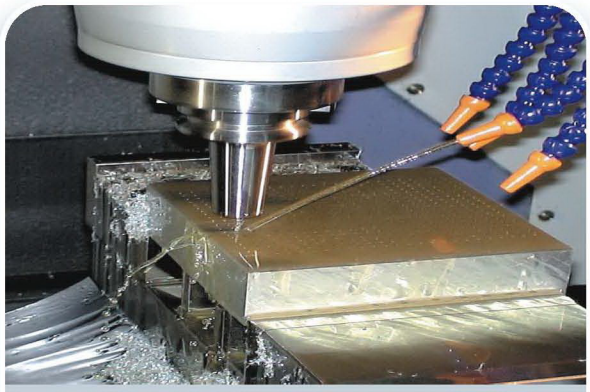
3D mold for automobile headlight



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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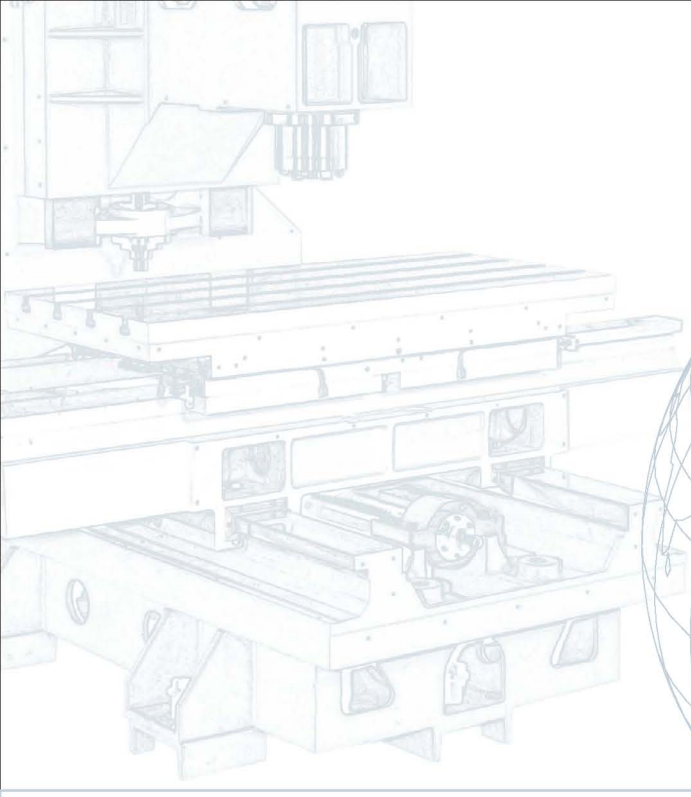

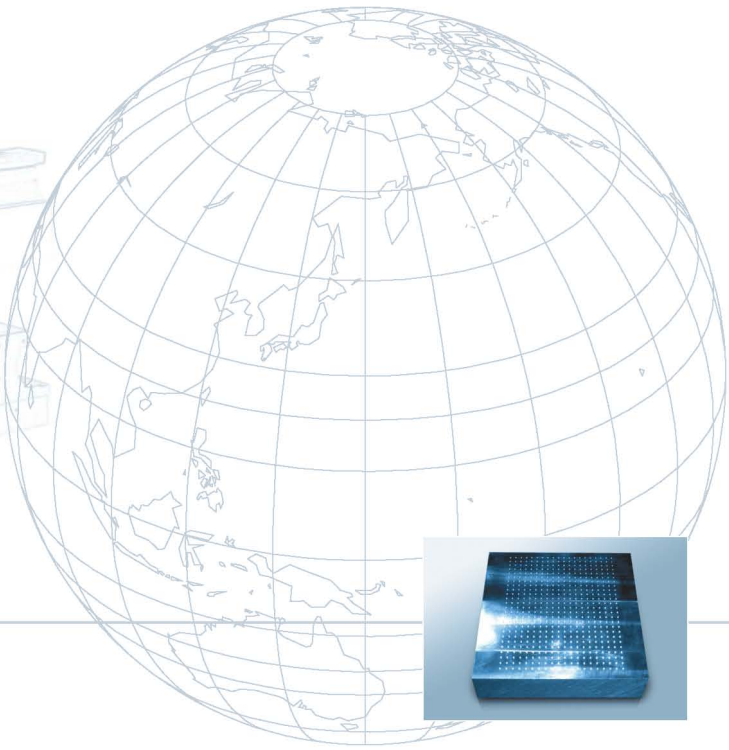

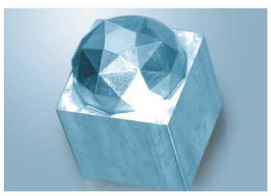

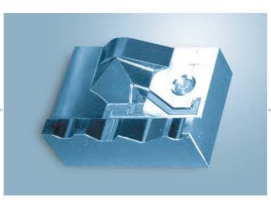

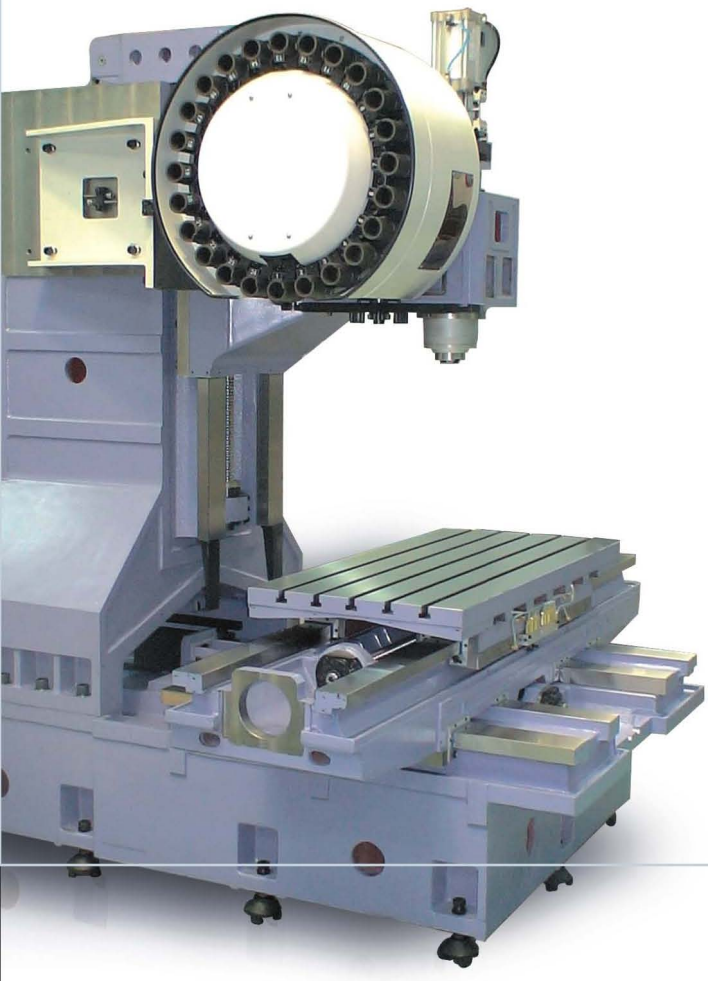

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