

NEW HIGH PRODUCTIVITY SWIFT
KOREAN MADE VERTICAL MACHINING CENTER

SVM 4100*i* / 5100*Li*



BASIC STRUCTURE

The SVM machine incorporates DN Solutions's traditional C-frame design structure, but has been optimized for higher productivity when undertaking fast and light duty machining operations.



Travel distance (X / Y / Z axis)

SVM 4100i

770 / 410 / 510 mm
30.3 / 16.1 / 20.1 inch

SVM 5100Li

1270 / 510 / 510 mm
50.0 / 20.1 / 20.1 inch

Rapid traverse rate (X / Y / Z axis)

SVM 4100i / 5100Li

30 m/min 1181.1 ipm

Acceleration/deceleration time

SVM 4100i

0.6 / 0.6 / 0.6 g

SVM 5100Li

0.6 / 0.5 / 0.5 g

SPINDLE

Optimized machine table size and maximum allowable load capacity provide the largest machining area in its class.



Spindle
acceleration/
deceleration
performance up!

Max. spindle speed

10000 r/min

Max. spindle motor power

18.5 kW
24.7 Hp

Max. spindle motor torque

96 N·m
70.8 ft-lbs

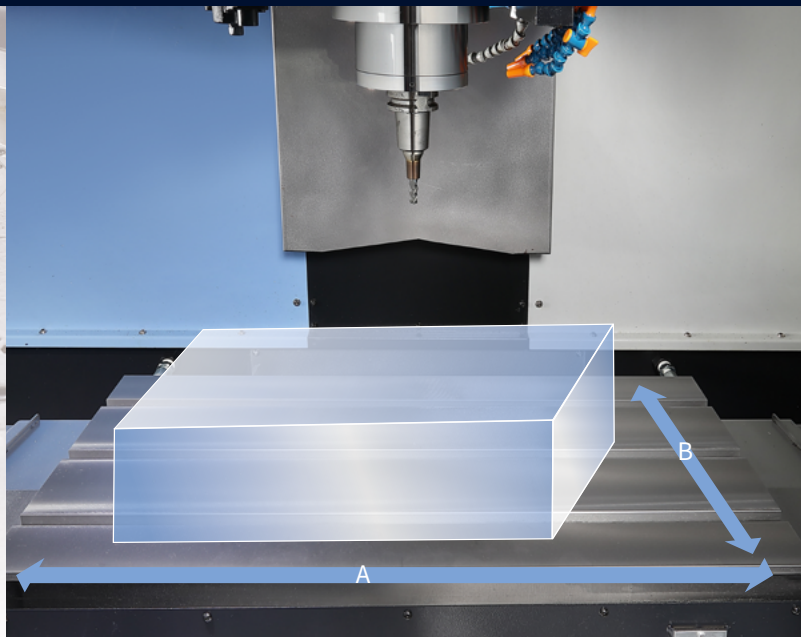
TOOL CHANGE SYSTEM

In order to reduce the non-cutting time between machining operations, the tool change time has been optimized compared to similar models.



TABLE

The direct connection type spindle is supplied as standard. The noise and vibration levels are reduced to improve operator comfort.



Tool storage capacity

30 ea

Tool to Tool time

SVM 4100i / 5100Li

1.4 S

Chip to Chip* time

SVM 4100i / 5100Li

3.4 S

* The Chip-to-Chip time has been tested in accordance with DN Solutions's strict testing procedures, but may vary depending on different operating conditions.

Table size (A x B)

SVM 4100i

920 x 410 mm
36.2 x 16.1 inch

SVM 5100Li

1320 x 510 mm
52.0 x 20.1 inch

Max weight on table

SVM 4100i

600 kg 1322.8 lb

SVM 5100Li

800 kg 1763.7 lb

HIGH PRODUCTIVITY

A total of 117 M3 tap processing and POCKET internal end mill finishing: Tool change 8 times during processing



Cutting time

A company model

9min.

SVM 4100i

5min.50sec.

Reduced by
35 %

Mobile phone bracket (Company K)_7 tool changes during processing



Cutting time

A company model

1min. 47sec.

SVM 4100i

1min. 22sec.

Reduced by
23 %

* The results, indicated in this catalogue are provided as an example only. They may not always be obtained due to differences in cutting environmental conditions.

Machine specifications

Description	Features		Unit	SVM 4100i	SVM 5100Li
Travels	Travel distance	X-axis	mm (inch)	770 (30.3)	1270 (50.0)
		Y-axis	mm (inch)	410 (16.1)	510 (20.1)
		Z-axis	mm (inch)	510 (20.1)	510 (20.1)
	Distance from spindle nose to table top		mm (inch)	100 ~ 610 (3.9 ~ 24.0)	100 ~ 610 (3.9 ~ 24.0)
Table	Table size		mm (inch)	920 x 410 (36.2 x 16.1)	1320 x 510 (52.0 x 20.1)
	Table loading capacity		kg (lb)	600 (1322.8)	800 (1763.7)
	Table surface type			T-SLOT (4-125 X 18H8)	T-SLOT (4-125 X 18H8)
Spindle	Max. Spindle speed		r/min	10000 (Direct)	10000 (Direct)
	Spindle taper			ISO #40	ISO #40
	Spindle motor power		kW (Hp)	18.5/5.5 (24.8/7.4) (S3 15% cont.)	18.5/5.5 (24.8/7.4) (S3 15% cont.)
	Max. Spindle torque		N.m (ft-lbs)	96 (70.8)	96 (70.8)
Feedrates	Rapid Traverse Rate	X-axis	m/min (ipm)	30 (1181.1)	30 (1181.1)
		Y-axis	m/min (ipm)	30 (1181.1)	30 (1181.1)
		Z-axis	m/min (ipm)	30 (1181.1)	30 (1181.1)
Automatic Tool Changer	Type of tool shank			BT 40	BT 40
	Tool storage capa.		ea	30	30
	Max. tool diameter	Continuous	mm (inch)	80 (3.1)	80 (3.1)
		Without Adjacent Tools	mm (inch)	125 (4.9)	125 (4.9)
	Max. tool length		mm (inch)	300 (11.8)	300 (11.8)
	Max. tool weight		kg (lb)	6 (13.2)	6 (13.2)
	Tool selection			RANDOM	RANDOM
	Tool change time (Tool-to-tool)		s	1.4	1.4
	Tool change time (Chip-to-chip)		s	3.4	3.4
Machine Dimensions	Height		mm (inch)	2661 (104.8)	2685 (105.7)
	Length x Width (w/ conveyor)		mm (inch)	2052 x 3494 (80.8 x 137.6)	2410 x 4385 (94.9 x 172.6)
	Weight		kg (lb)	3850 (8488)	5820 (12831)



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