

CINCINNATI MACHINES

SMART-e

LV/BV 60~100 SERIES

High Performance - Low Cost

VERTICAL MACHINING CENTER



LV series BV series

LV/BV 60~100 SERIES

SMART-e

Provides Rock Solid Castings with State-of-the-Art Annealing that insures minimum distortion and chatter proof precision machining for the life of the machine. The Hard Box Ways combine with full way contact throughout the travels to provide maximum stability in even the heaviest machining cuts.

CINCINNATI
MACHINES

BV

Series

HARD BOX WAYS

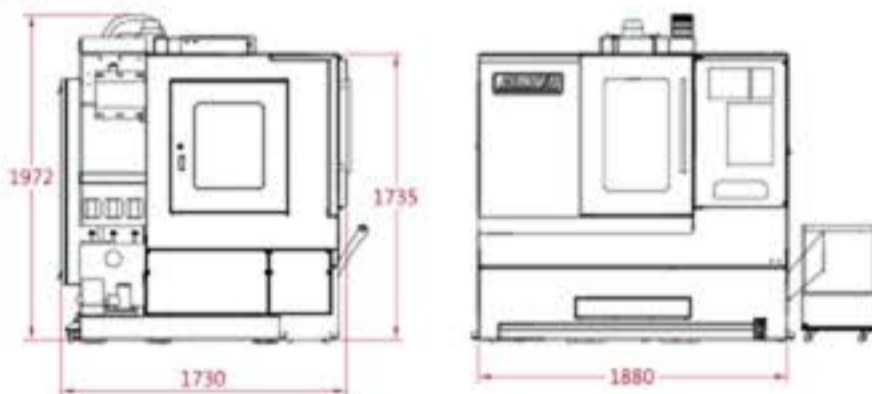
INNOVATION +
TECHNOLOGY +
RIGIDITY +
SIMPLICITY +

= LOW COST +
PRODUCTIVITY



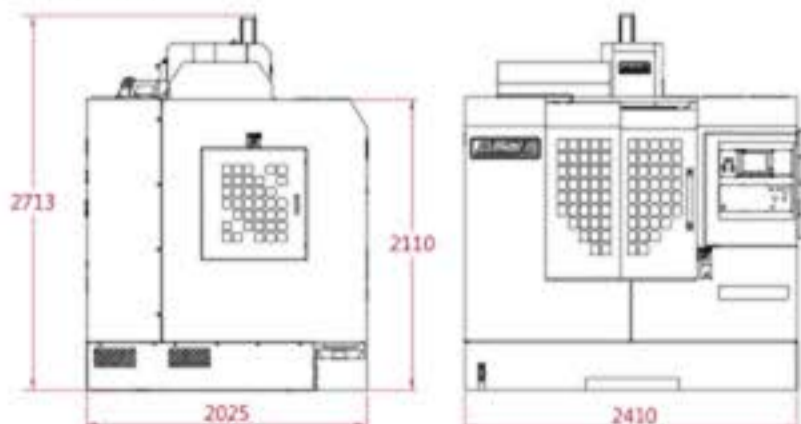
Floor Plan

BV-60

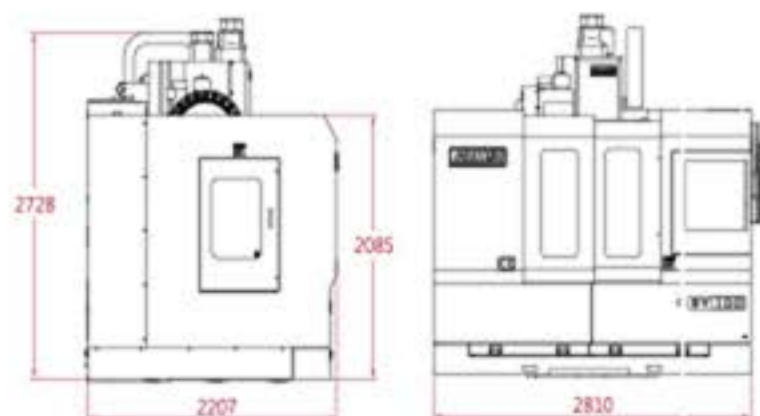


- *Fanuc 0i-MD - Standard
- *8/10,000 rpm - Standard
- *10/20 ATC - Standard
- *Coolant - Standard
- *BT/Cat 40 - Standard
- *10/15hp - Standard
- *Full Enclosure - Standard

BV-80



BV-100



SMART-e

Provides Rock Solid Castings with State-of-the-Art Annealing that insures minimum distortion and chatter proof precision machining for the life of the machine. The Linear Guide Ways combine with full way contact throughout the travels to provide maximum stability in even the fastest machining cuts.

FAST
Linear Guide
Ways

INNOVATION +
TECHNOLOGY +
RIGIDITY +
SIMPLICITY +

= LOW COST +
PRODUCTIVITY



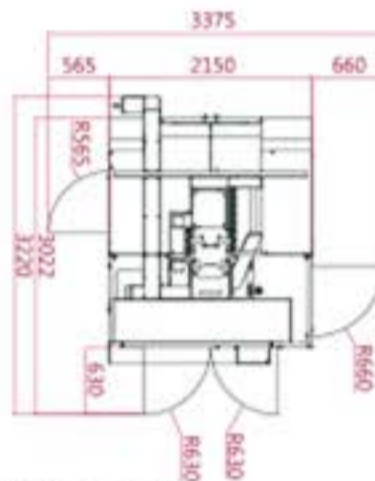
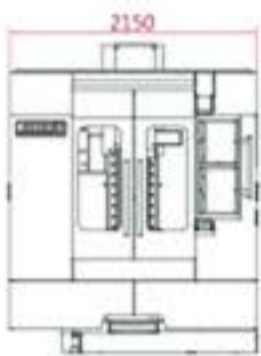
Pallet Changer Style Base Shown here

GINGINNATI
MACHINES

LV
Series

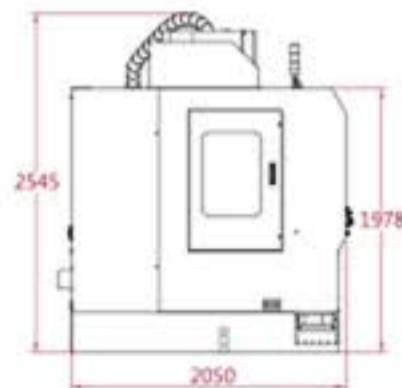
Floor Plan

LV-60

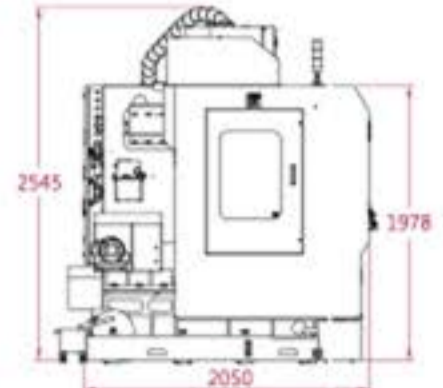
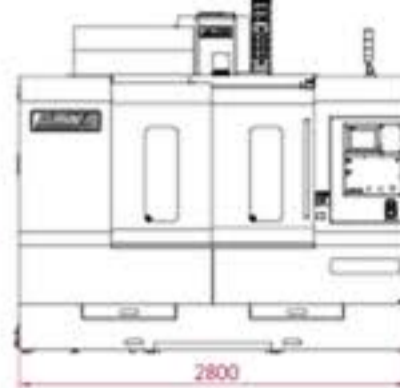


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LV-80



LV-100



LV 760/800 APC

VERTICAL MACHINING CENTER WITH
AUTO PALLET CHANGER



ARM Type:
24T (STD)

Pallet: 2 pcs
Spindle Speed: BT-40
10000 rpm (STD)

CINCINNATI
MACHINES

APC

SMART-e

LV-760
APC



QUALITY CONSTRUCTION, PERFORMANCE, LOWEST COST

INNOVATION +
TECHNOLOGY +
RIGIDITY +
SIMPLICITY +
QUALITY
= LOW COST +
PRODUCTIVITY

The LV-760/800 APC Machines include not only the APC, but also the Arm-Type 24-ATC, BT/Cat 40, 10,000 rpm, plus Hydraulic Oil Supply to your jigs and fixtures, all standard.

MODEL	LV - 60	LV - 80	LV - 100	LMV-760APC	LMV-800APC	BV - 60	BV - 80	BV - 100	
Table	Work Table	700 x 400 mm	950 x 500 mm	1100 x 500 mm	600 x 400 mm x 2 pcs	800 x 500 mm x 2 pcs	710 x 350 mm	950 x 450 mm	1200 x 550 mm
	T-slot (size x number)	CD63 x 16 mm x 5T	CD80 x 18 mm x 5T	CD80 x 18 mm x 5T	100 x 14 mm x 3T	100 x 18 mm x 5T	CD63 x 16 mm x 5T	CD100 x 18 mm x 4T	CD100 x 18 mm x 5T
	Max. Loading	250 kg	500 kg	600 kg	200 kg	300 kg	350 kg	600 kg	700 kg
Travel	Three Axis Travel	600 x 420 x 500 mm	800 x 500 x 500 mm	1000 x 500 x 500 mm	760 x 460 x 450 mm	800 x 460 x 450 mm	610 x 350 x 460 mm	820 x 520 x 510 mm	1000 x 600 x 610 mm
	Spindle Nose to Worktable Surface	125 ~ 625 mm	125 ~ 625 mm	125 ~ 625 mm	150 ~ 600 mm		140 ~ 540 mm	140 ~ 650 mm	140 ~ 750 mm
	Spindle Center to Column Slide Ways	460 mm	550 mm	550 mm	490 mm		430 mm	520 mm	620 mm
Spindle	Spindle Taper	BT-40	BT-40	BT-40	BT-40		BT-40	BT-40	BT-40
	Spindle Diameter	Ø60 mm	Ø70 mm	Ø70 mm	Ø60 mm	Ø70 mm	Ø60 mm	Ø70 mm	Ø70 mm
	Spindle Speed	10000 rpm	10000 rpm	10000 rpm	10000 rpm		8000 rpm	10000 rpm	10000 rpm
Feedrate	3 axes Slide Ways	Linear Guide Way	Linear Guide Way	Linear Guide Way	Linear Way		Box Way	Box Way	Box Way
	3 axes Cutting Feedrate	10 / 10 / 10 mm/min	10 / 10 / 10 mm/min	10 / 10 / 10 mm/min	30 / 30 / 30 mm/min		10 / 10 / 10 mm/min	10 / 10 / 10 mm/min	10 / 10 / 10 mm/min
	3 axes Rapid Feedrate	48 / 48 / 48 mm/min	36 / 36 / 36 mm/min	36 / 36 / 36 mm/min	10 / 10 / 10 mm/min		15 / 15 / 15 mm/min	20 / 20 / 20 mm/min	20 / 20 / 20 mm/min
ATC	Tool Selection	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path	
	Max. Tool Diameter x Length	Ø100 x 250 mm	Ø100 x 250 mm	Ø100 x 250 mm	Ø100 x 250 mm	Ø100 x 250 mm	Ø100 x 250 mm	Ø100 x 300 mm	
	Max. Tool Weight	7 kg	7 kg	7 kg	7 kg	6 kg	7 kg	7 kg	
	Tool Shank	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	BT-40	
Motor	ATC Capacity (Armless / Arm)	10	20	20	24	10	20	20	
	Spindle Motor (cont./30 min.)	5.5/7.5kW	7.5/11kW	7.5/11kW	7.5 / 11 kw	6.5/7.5kW	7.5/11kW	7.5/11kW	
	X / Y / Z axis Servomotor (MITSUBISHI)	X,Y:HF224 , Z:HF204B	X,Y:HF224 , Z:HF204B	X,Y:HF224 , Z:HF204B	-	X,Y:HF224 , Z:HF204B	X,Y:HF224 , Z:HF204B	X,Y:HF224 , Z:HF204B	
	X / Y / Z axis Ball Screw	Ø32 x P16	Ø36 x P12	Ø36 x P12	Ø32 x Pitch 12	Ø32 x P8	Ø40 x P10	Ø40 x P10	
Miscellaneous	Coolant Pump	700W	700 w	700 w	700 w	700 w	700 w	700 w	
	External Dimension (L x W x H) (Approx)	2150 x 2740 x 2387 mm	2360 x 2050 x 2380 mm	2800 x 2050 x 2380 mm	2180 x 2957 x 2632 mm	2230 x 3282 x 2707 mm	1880 x 1730 x 1987 mm	2410 x 2020 x 2300 mm	2800 x 2180 x 2450 mm
	Net Weight (Approx.)	2900 kg	4300 kg	4700 kg	4500 / 5000 kg	5000 / 5500 kg	2600 kg	4500 kg	5000 kg
	Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard
	Coolant Tank Capacity	200L	260L	330L	260L	130L	150L	330L	