

LAW-F II

CNC LATHE for ALUMINIUM WHEELS

1-SADDLE/SLIDING SPINDLE CNC LATHE FOR ALUMINUM WHEELS **LAW-F II**

How to turn economically with Okuma's 1-saddle Wheel Master! New & Improved maintenance and chip handling

Small footprint

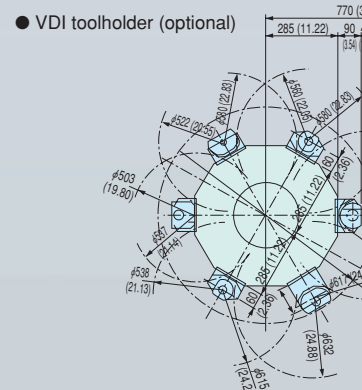
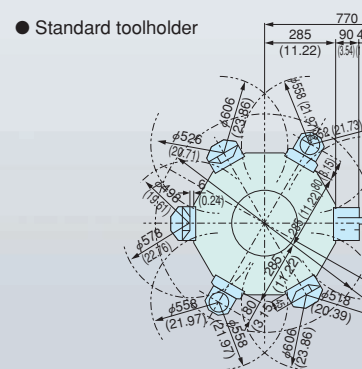
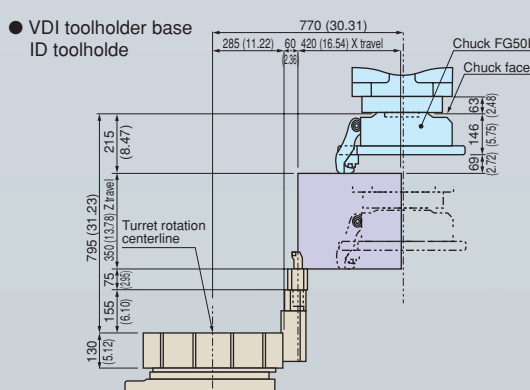
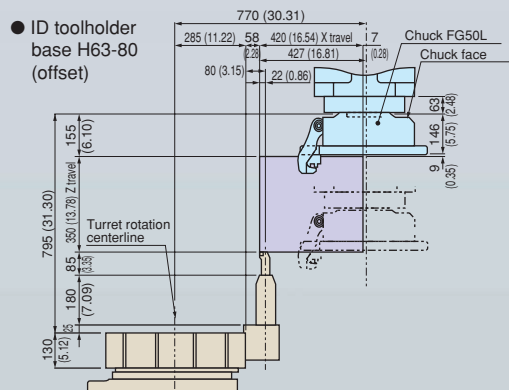
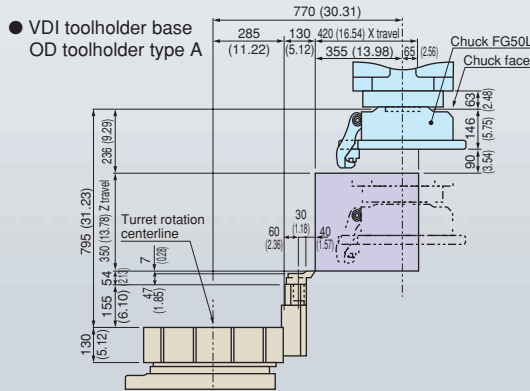
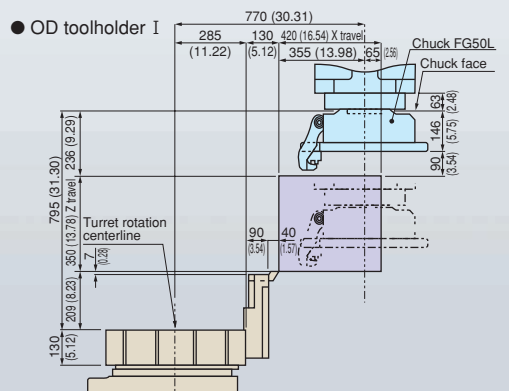
- Floor space: 8m² (86 ft²)
- Machine width: 2800 mm (110 in.)



Working Ranges

Note: Drawings for the L machine. R machine specs are the same in the opposite direction.

Tool Interference Diagram

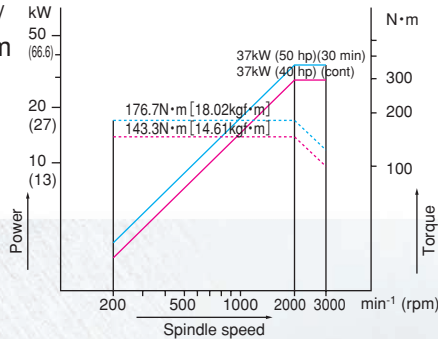


From mass production to after-market applications—versatile!

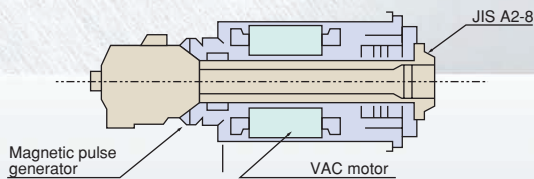
High productivity

- Quicker load/unload time thanks to sliding spindle at your command
- Quick turret: 0.5 sec/station indexing
- Fast & accurate integral motor/spindle: 3,000 min⁻¹ {rpm}, 37/30 kW (50/40 hp)

■ Spindle power/torque diagram



- **Special headstock with VAC integral motor/spindle**
All gears and belts eliminated from the headstock; wheel street-sides get super clean VAC integral motor/spindle means less work to clean out invader chips

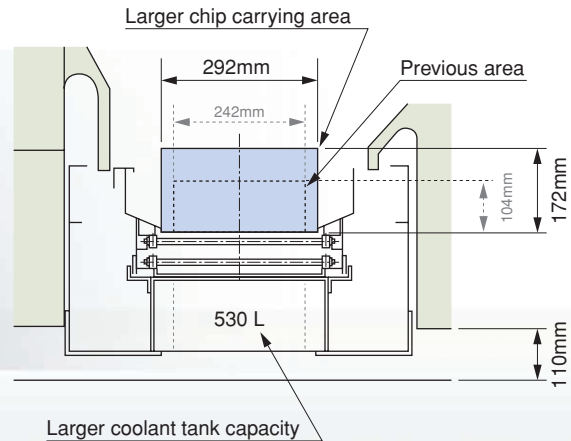


Extra durable, highly accurate

- Spindle with oil controller (standard)
- Z-axis BL motor (direct drive)

Better and bigger chip disposal capacity

- Side discharge conveyor with double collection area (compared to previous machine)
- Large side-removable coolant tank: 530 L (1.6 x previous capacity)

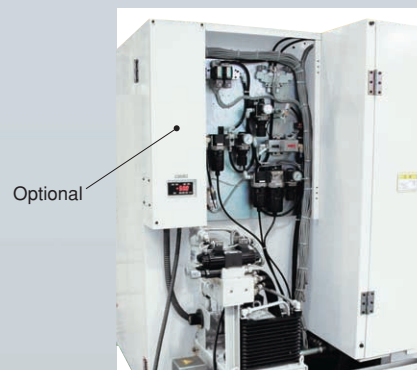


Easier maintenance

- Large door
• More space for maintenance work

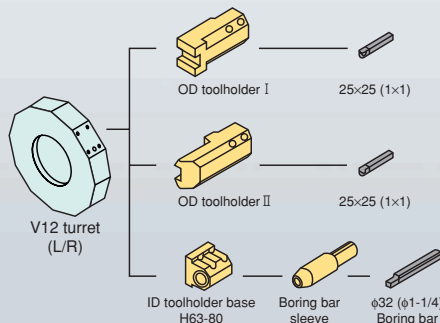


- Centralized
• Lube unit, hydraulic unit, air unit—all in one place

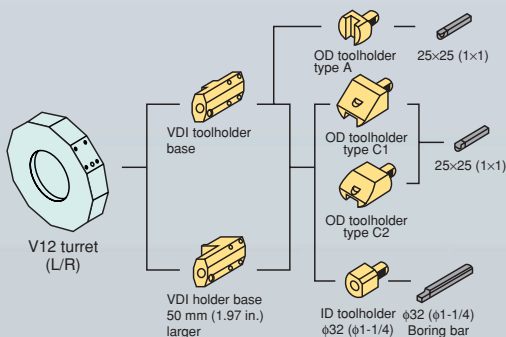


■ Tooling System

● Standard toolholder (L/R)



● VDI quick-change (L/R) (optional)



■ LAW-FII Machine Specifications

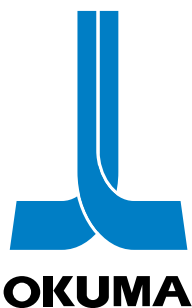
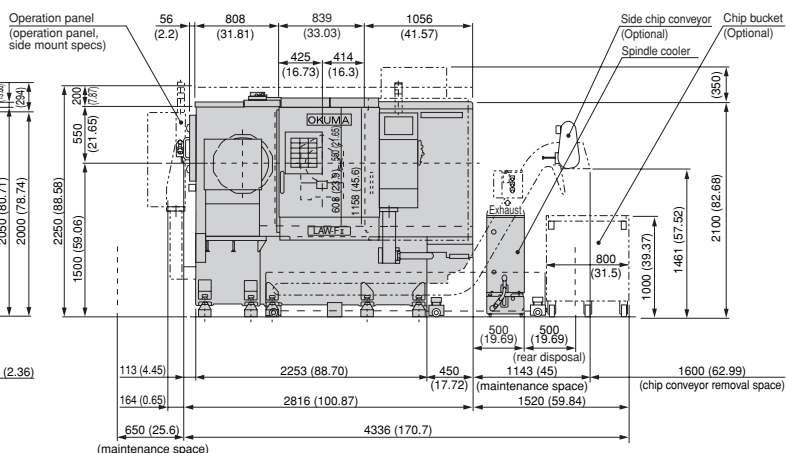
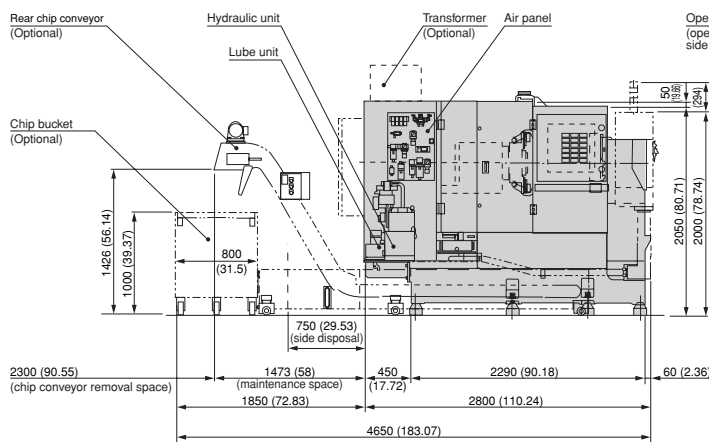
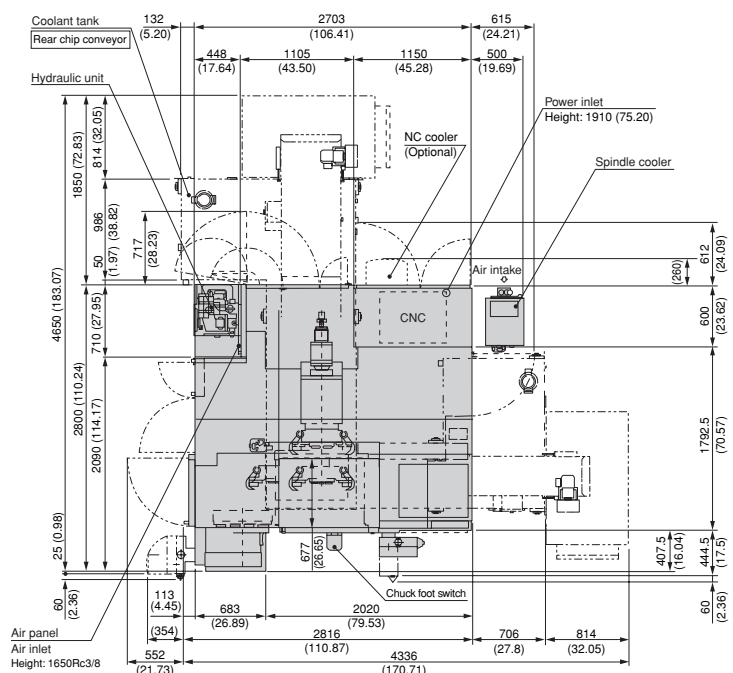
Capacity	Swing over bed	mm (in.)	φ620 (24.41)
	Max turning dia	mm (in.)	φ620 (24.41)
	Max turning length	mm (in.)	280 (11.02)
	Max workpiece	in.	18" X10J (car aluminum wheel)
Travels	X axis	mm (in.)	420 (16.54)
	Z axis	mm (in.)	350 (13.78)
Spindle	Speed range	min ⁻¹ (rpm)	200~3,000
	No. of spindle ranges		1 (infinitely variable)
	Spindle nose		JIS A2-8
	Spindle bore dia	mm (in.)	φ53 (φ2.09)
	Diameter at front bearing	mm (in.)	φ130 (φ5.12)
Turret	Type		V12
	OD tool shank	mm (in.)	25X25 (1X1)
	ID tool shank ^{*1}	mm (in.)	φ40 (φ1-1/2)
	Indexing time	sec	0.5/station
Rapid traverse (X-Z)		mm/min (ipm)	X: 20,000 (787) Z: 20,000 (787)
Motors	Main spindle drive ^{*2}	kW (hp)	37/30 (50/40) (30 min/cont)
	Saddle (Z) drive	kW (hp)	BL3.5 (4.7)
	Cross side (X) drive	kW (hp)	BL4.6 (6.1)
	Turret rotary drive	kW (hp)	BL3.5 (4.7)
	Coolant pump	kW (hp)	1.2 (1.6)
Machine size	Floor to spindle centerline	mm (in.)	1,500 (59.06)
	Height	mm (in.)	2,250 (88.58)
	Floor space	mm (in.)	2,816 × 2,800 (w/o tank)
	Weight (incl. CNC)	kg (lb)	9,000 (19,800)
CNC			Okuma OSP-P20L

*1. Uses φ63 (2-1/2) ID toolholder base and φ40 (1-1/2) sleeve

*2. VAC integral motor/spindle

■ Dimensional Drawing

For the L machine
R machine with opposite directions.



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● The specifications, illustrations, and descriptions in this brochure vary in different markets and are subject to change without notice. Consult your local Okuma representative for specific end-user requirements. Pub No. LAW-FII-(1)-300 (Apr 06) Printed in Japan

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