



CNC Lathe for Aluminum Wheels

LAW-2S

Customized for the 20-inch wheels (and hot 4-wheelers)!

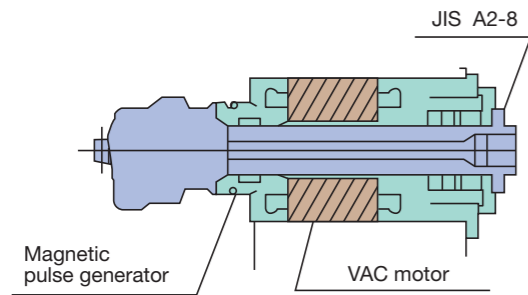
A high-performance 4-axis CNC lathe—with exceptional speed and quality

The WHEEL MASTER

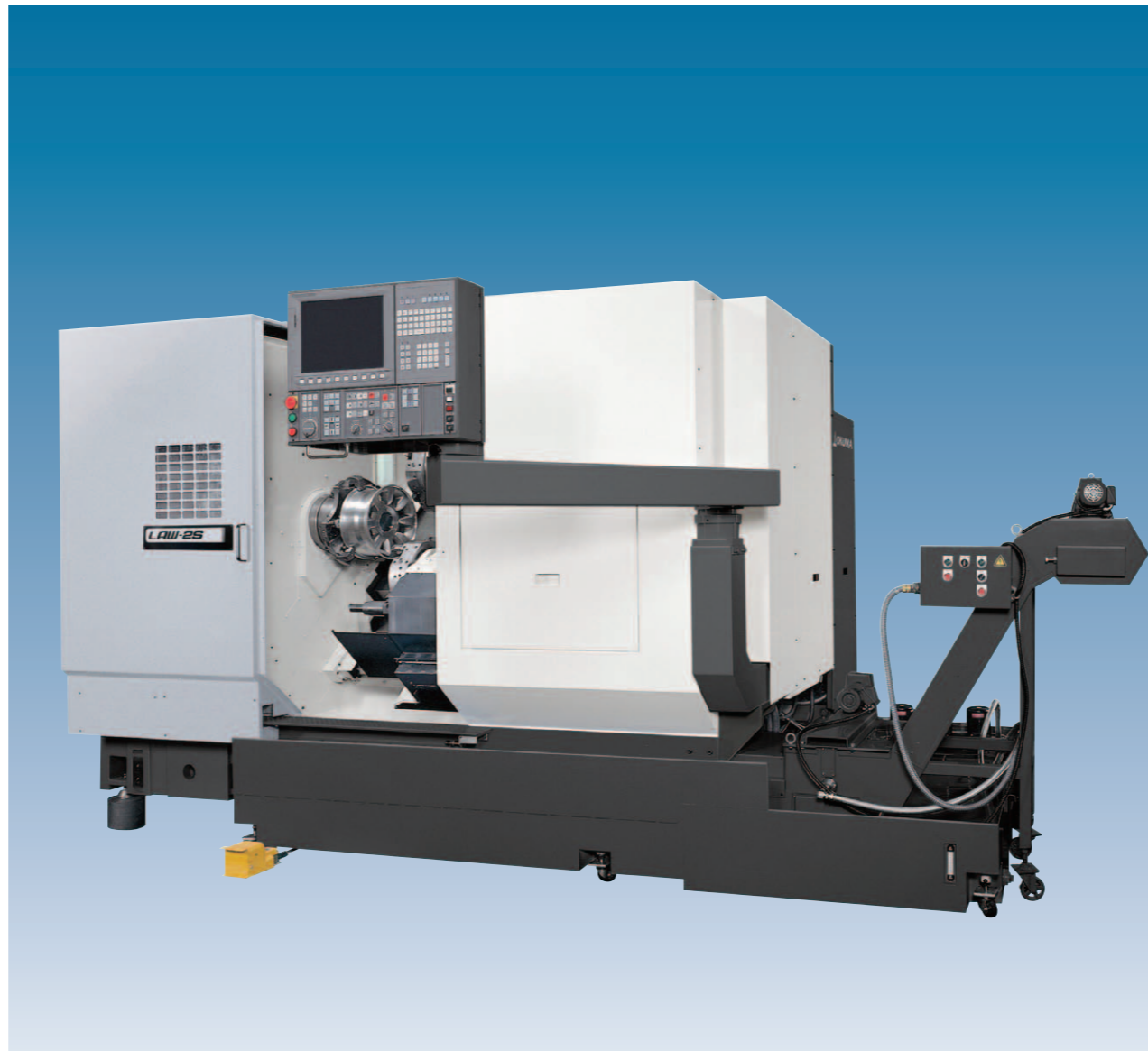
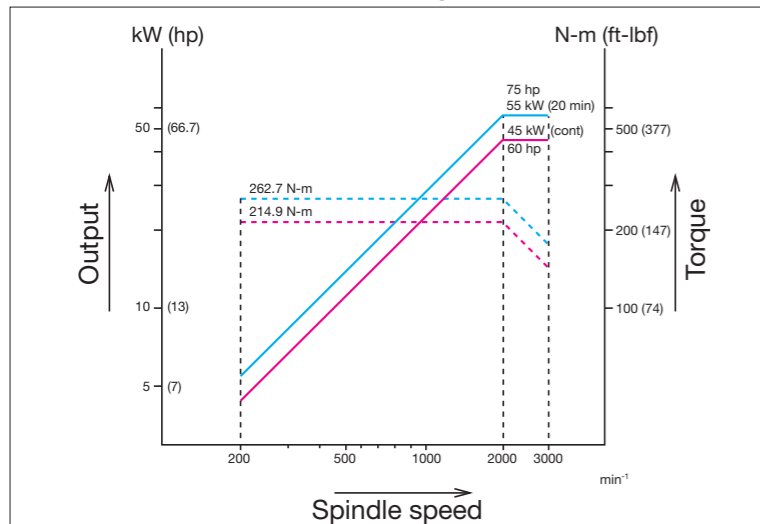
Meet the spearhead for small/medium batch applications to mass production

Special headstock with VAC integral motor/spindle provides superb accuracy, needs little maintenance

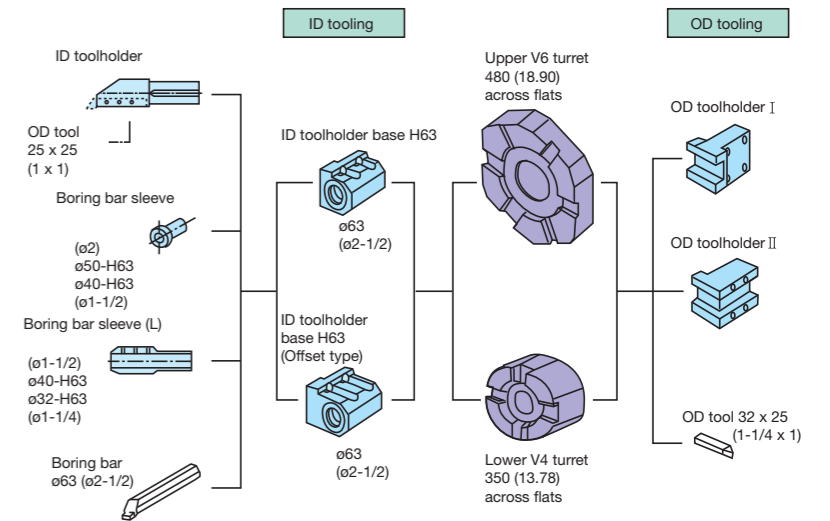
- Gears and belts eliminated from the headstock; street-sides get super clean
- Integrated motor/spindle means less work to clean out invader chips



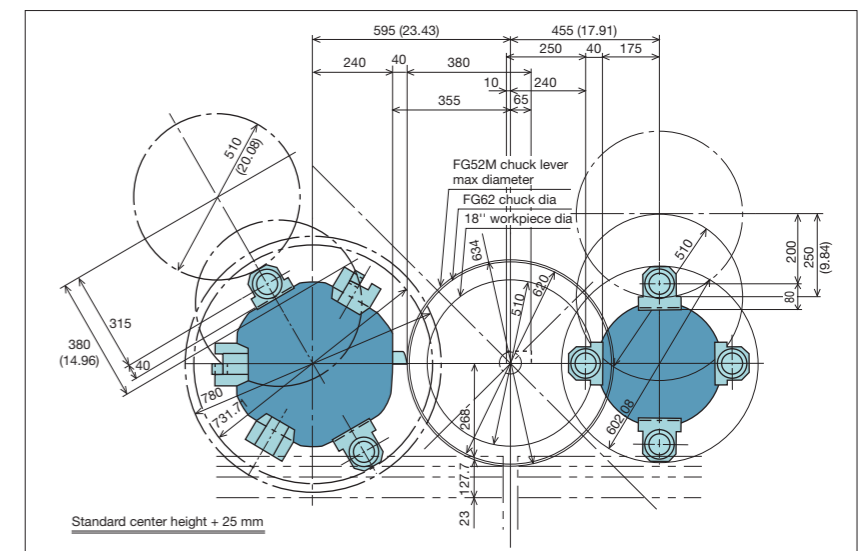
Spindle power/torque diagram



Tooling System



Tool Interference Diagram



Fast

- Integrated motor/spindle Max 3,000 min⁻¹
VAC 55/45 kW (75/60 hp)
- Spindle start/stop 3.5 sec (with finger chuck)
- Rapid traverse X: 15 (591), Z: 20 m/min (787 ipm)
- NC turret indexing 0.4 sec/station (upper/lower turrets)

Accurate and rigid

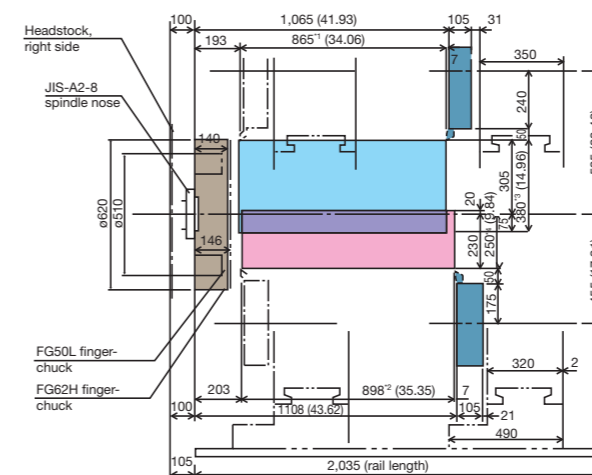
- Thermally balanced bed construction
- Spindle centerline narrow guides, pre-tensioned ball-screw (X axis std)

Advanced chip discharge engineering

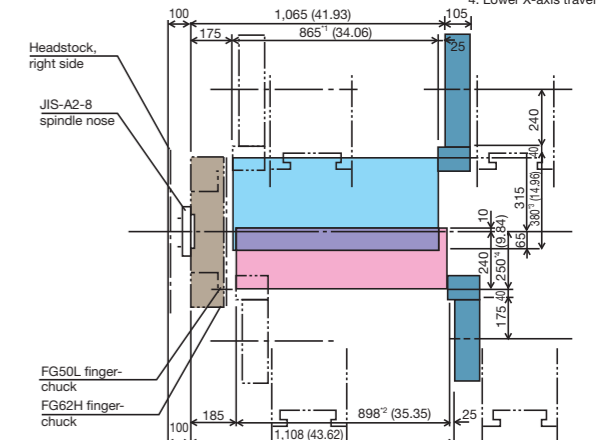
- Large-capacity coolant system . . 600-L (159-gal) tank, two 0.8 kW (1.1 hp) motors, in-machine chip flushing
- 1-sheet saddle cover
- Cylindrical ducts

Working Range

Turret direct mount



ID toolholder base

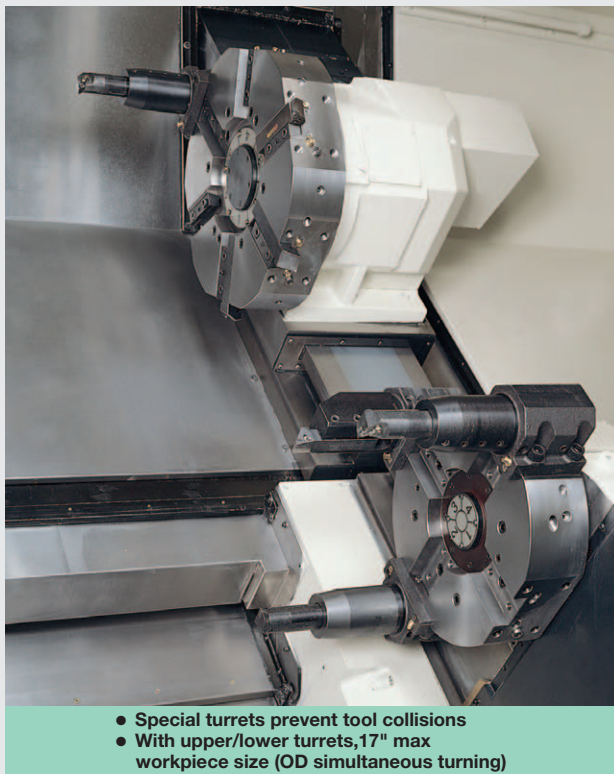


*1. Upper Z-axis travel
*2. Lower Z-axis travel
*3. Upper X-axis travel
*4. Lower X-axis travel

Machine Specifications

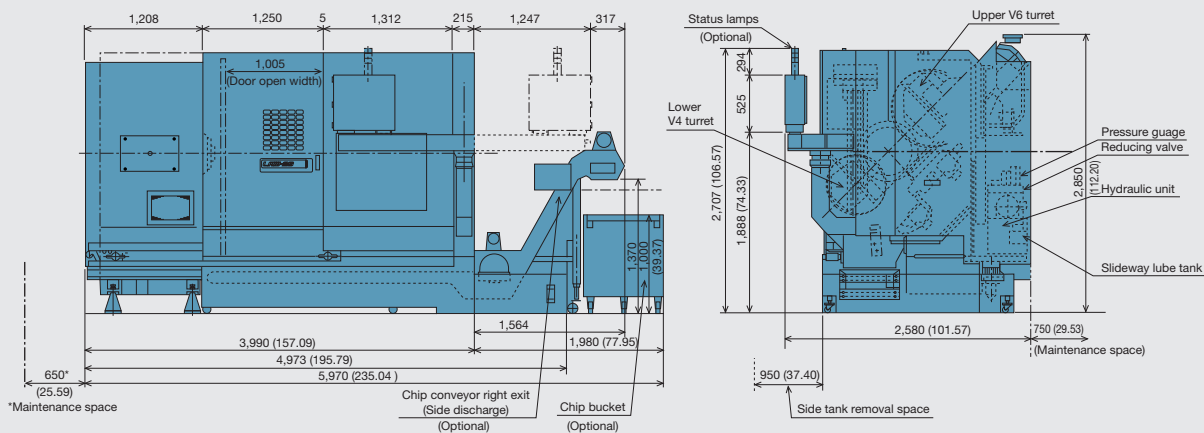
Model			LAW-2S	
Capacity	Swing over bed	mm (in.)	790 (31.10)	
	Swing over saddle	mm (in.)	530 (20.87)	
	Max machining dia	mm (in.)	630 (24.80) [upper]	
	Max workpiece		Max 20" [car wheel]	
Spindle	Speeds	min ⁻¹	200 to 3,000	
	No. of speed ranges		Stepless	
	Spindle nose		JIS A2-8	
	Spindle bore dia	mm (in.)	ø53 (ø2.09)	
	Bearing inside dia	mm (in.)	ø130 (ø5.12)	
Travels	Upper turret	Saddle	mm (in.)	865 (34.06)
		Rapid traverse	mm/min (ipm)	20,000 (787)
		Cross slide	mm (in.)	380 (14.96)
	Lower turret	Rapid traverse	mm/min (ipm)	15,000 (591)
		Saddle	mm (in.)	898 (35.35)
		Rapid traverse	mm/min (ipm)	20,000 (787)
		Cross slide	mm (in.)	250 (9.84)
Rapid traverse		mm/min (ipm)	15,000 (591)	
Turrets	Upper turret type		V6	
	No. of tools		6	
	Lower turret type		V4	
	No. of tools		4	
Tool shank/boring bar dia		mm (in.)	32 x 25/ø63 (1 x 1-1/4/ø2-1/2)	
Motors	Spindle (20 min/cont)		kW (hp)	55/45 (75/60)
	Upper turret	Saddle (Z)	kW (hp)	3.6 (4.8)
		Cross slide (X)	kW (hp)	3.6 (4.8)
		Turret rotation	kW (hp)	3.0 (4.0)
	Lower turret	Saddle (Z)	kW (hp)	3.6 (4.8)
		Cross slide (X)	kW (hp)	3.0 (4.0)
		Turret rotation	kW (hp)	1.7 (2.3)
	Coolant system		kW (hp)	0.8 (1.1)
Machine Size	Height		mm (in.)	2,850 (112)
	Floor space [machine, w/ tank]		mm (in.)	4,973 x 2,580 (196 x 104)
	Weight [w/CNC system]		kg (lb)	11,500 (25,300)
CNC System		Okuma	OSP-P300L	

Turrets



- Special turrets prevent tool collisions
- With upper/lower turrets, 17" max workpiece size (OD simultaneous turning)

Dimensional Drawing



When using Okuma products, always read the safety precautions mentioned in the instruction manual and attached to the product.

• The specifications, illustrations, and descriptions in this brochure vary in different markets and are subject to change without notice.
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When using Okuma products, always read the safety precautions mentioned in the instruction manual and attached to the product.

This product is subject to the Japanese government Foreign Exchange and Foreign Trade Control Act with regard to security controlled items; whereby Okuma Corporation should be notified prior to its shipment to another country.

