



NEW Era DSP-P300LA-e

1-Saddle CNC Lathe

GENOS L1000 series

MW/MYW

World Trade Service



GENOS

The origin of gene, from Greek *genos*
meaning race, offspring, origin
(pronounced "γένος" as in "generous")

Global
Efficient
No.1
Standard



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Agent

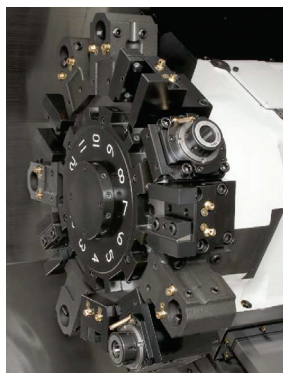
L3000-e (MWX400)



L3000-e (MYWX400)

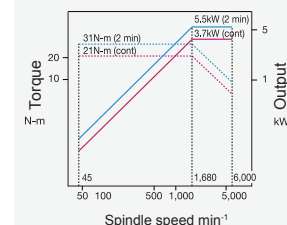


GENOS L3000-e (MW/MYW)



GENOS L3000-e V12 Radial multitasking turret

- Spindle speed: 6,000 min⁻¹
- Power: 5.5/3.7 kW (2 min/cont)
- Torque: 31 N-m

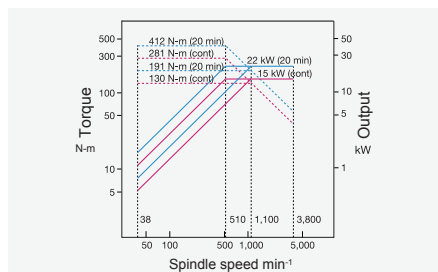


Integral motor/spindle

With these sub-spindle specifications, front and back machining can be done on a single lathe. Interference is not a worry even in back face machining with a multitasking V12 radial turret.

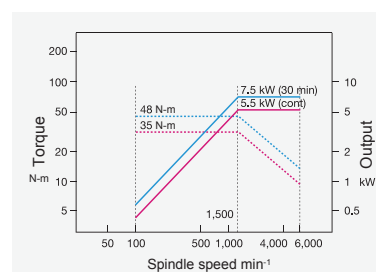
Main spindle

- Bearing inside diameter : Ø120 mm
- Through-hole diameter : Ø80 mm
- Spindle speed : 3,800 min⁻¹
- Power : 22/15 kW (20 min/cont)
- Torque : 412/281 N-m (20 min/cont)



Sub spindle

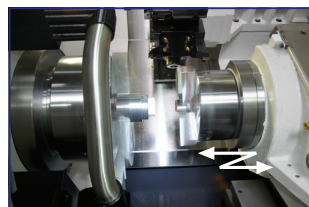
- Bearing inside diameter : Ø80 mm
- Through-hole diameter : Ø53 mm
- Spindle speed : 6,000 min⁻¹
- Power : 7.5/5.5 kW (30 min/cont)
- Torque : 48/35 N-m (30 min/cont)



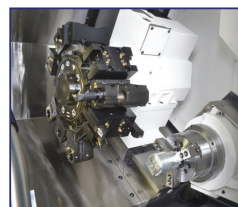
Combined front/back operations on a single machine



OP-I



Workpiece transfers
(OP-I-OP-II)



OP-II

Machine Specifications

Item	Model name	GENOS L3000-e	
		MW	MYW
Capacity	Max turning dia	mm	Ø300
	Max work length	mm	150
Travels	X axis	mm	236
	Z axis	mm	460
	Y axis	mm	100 (+50~-50)
	W axis	mm	520
	C axis	mm	360°(min.control angle 0.001°)
Spindle	Spindle speed	min ⁻¹ (rpm)	3,800
	Speed ranges		2 auto ranges
	Spindle nose type		JIS A2-8
	Spindle bore dia	mm	Ø80
	Front bearing dia	mm	Ø120
Sub-Spindle	Spindle speed	min ⁻¹ (rpm)	6,000
	Speed ranges		Infinitely variable
	Spindle nose type		Ø140 flat
	Spindle bore dia	mm	Ø53
	Front bearing dia	mm	Ø80
Turret	Type		V12 Radial multitasking
	No. of tools		12
	OD tool shank	mm	25×25
	ID tool shank dia	mm	Ø40
Milling tool	Spindle speed	min ⁻¹ (rpm)	6,000
Feedrates	Rapid travers(X, Z)	m/min	X:25,Z:30
	Rapid travers(Y)	m/min	Y:10
	Rapid travers(W)	m/min	W:25
	Rapid travers(C)	min ⁻¹ (rpm)	C : 200
	Feedrates(X,Z,Y)	mm/rev	0.001~1,000.000
Motors	Main spindle (20min/cont) kw		VAC 22/15
	Sub-Spindle (30min/cont) kw		VAC 7.5/5.5
	Milling tool spindle	kw	5.5/3.7 (2 min/cont)
Machine size	Height	mm	2,260
	Floor space	mm	3,035×2,087
	Weight (with CNC)	kg	5,500
CNC			OSP-P300LA-e

Optional Specifications

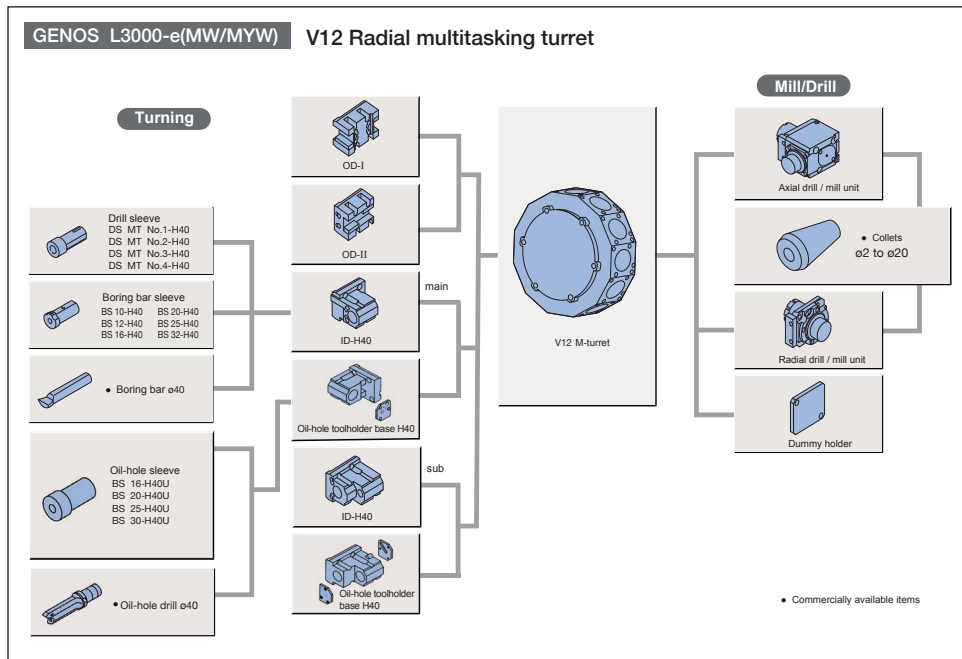
Chucking	Hollow/Solid Power Chucks: 8"
	Auto chuck open/close with confirmation
	Chucking miss detection
	Chuck high/low pressure switch
Measuring	In-process work gauging
Work stopper in spindle	front side rear side
Air blower	Chuck Turret Spindle bore
Coolant	High pressure(1.2MPa,7.0MPa)
	Spindle thru coolant
	Detection level
	Mist collector mount Oil skimmer
Chip conveyor+bucket	Hinge type(side/rear, L/H)
Door auto open/close	Front door Top door
Automation	Loader Robot
	Barfeeder Parts catcher

Chucking/Tooling Kit Specifications

Machine type		L3000-e(MW/MYW)	
Hydraulic solid chuck	ST	main 10"	sub 6"
Standard soft jaw A	3pcs/ST	3	1
Standard soft jaw B	3pcs/ST	1	-
OD toolholder I (STD,MW)	ST	2	
OD toolholder II (STD,MW)	ST	2	
ID toolholder base H40(STD,MW/main)	ST	4	
ID toolholder base H40(STD,MW/sub)	ST	1	
Boring bar sleeve 16-H40	PC	2	
Boring bar sleeve 20-H40	PC	2	
Boring bar sleeve 25-H40	PC	2	
Boring bar sleeve 32-H40	PC	2	
Drill sleeve MT2-H40	PC	1	
Radial drill / mill unit	ST	2	
Axial drill / mill unit	ST	2	
Dummy holder	ST	3	

Tooling System

Unit : mm

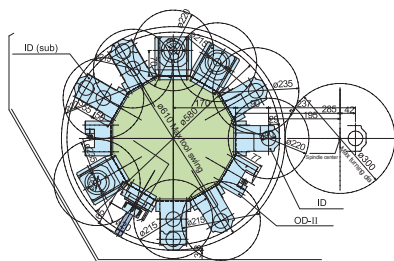


Tool Interference Drawings

Unit : mm

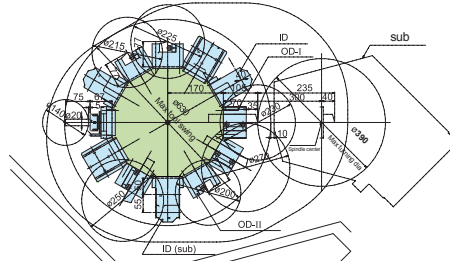
GENOS L3000-e (MWx400)

V12 BMT L/M turret



GENOS L3000-e (MYWx400)

V12 BMT L/M turret

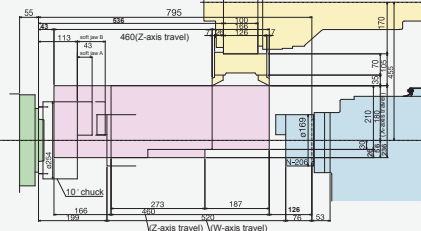


Working Ranges

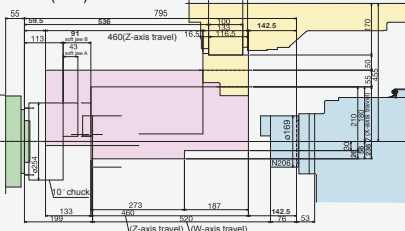
Unit : mm

GENOS L3000-e (MWx400)

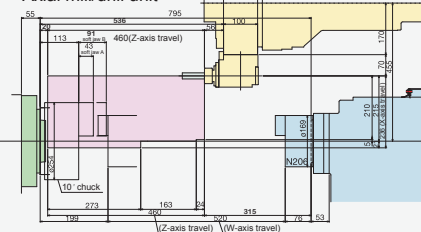
OD-I



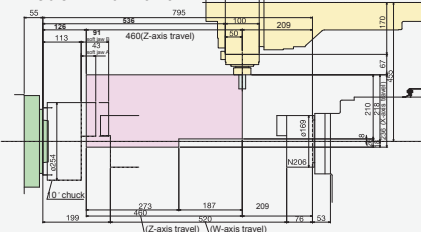
ID (sub)



Axial mill/drill unit

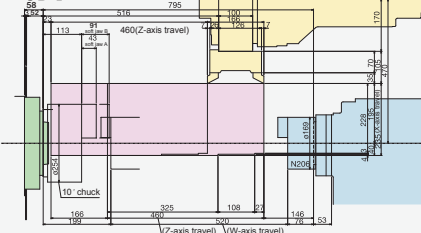


Radial mill/drill unit

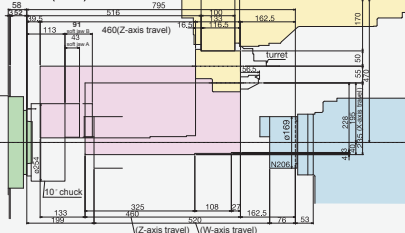


GENOS L3000-e (MYWx400)

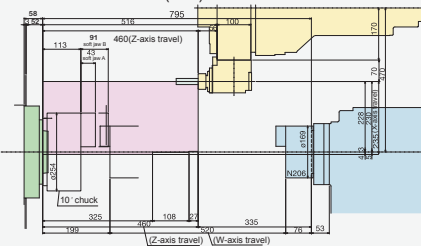
OD-I



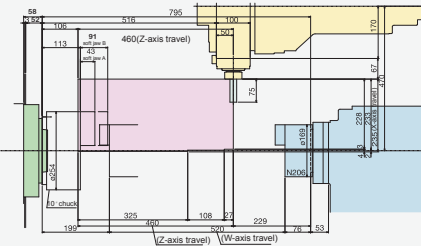
ID (sub)



Axial mill/drill unit (Y=0)



Radial mill/drill unit (Y=0)



OSP suite P300LA-e

Dimensional Drawings

Standard Specifications Unit : mm

Basic Specs	Control	Turning: X,Z simultaneous 2-axis, Multitasking:X,Z,C simultaneous 3-axis
	Position feedback	OSP full range absolute position feedback (zero point return not required)
	Min/Max inputs	8-digit decimal, +99999.999 to 0.001 mm (+3937.0078 to 0.0001 in.),0.001" Decimal: 1 um,10 um,1mm (0.0001,1 in.) (1",0.01",0.001")
	Feed	Override: 0 to 200%
	Spindle control	Direct spindle speed commands (S4) override 50 to 200% Constant cutting speed, optimum turning speed designate
	Tool compensation	Tool wear : 32 sets, tool offset: 32 sets
	Display	15-inch color display operational panel, multi-touch panel
	Self-diagnostics	Automatic diagnostics and display of program, operation, machine, and NC system problems
Program capacity	Program storage: 4 GB, operation buffer: 2 MB	
Operations	suite apps	Application to graphically visualize and digitize information needed on the shop floor
	suite operation	Highly reliable touch panel suited to shop floors. One-touch access to suite apps.
	Programming	Program management, edit, multitasking, scheduled programs, fixed cycles, special fixed cycles, tool nose R compensation, M-spindle synchronized tapping, fixed drilling cycles, arithmetic functions, logic statements, trig functions, variables, branch statements, auto programming (LAP4), programming help
	Easy Operation	"Single-mode operation" to complete a series of operations Advanced operation panel/graphics facilitate smooth machine control
	Machine operations	MDI, manual (rapid traverse, manual cutting feed, pulse advance), load meter, operations help, alarm help, sequence, return, manual interrupt & auto return, threading slide hold, data I/O, chuck open/close during spindle rotation, spindle orientation (electric)
		MacMan
Communications/Networks		USB ports, Ethernet
High speed/accuracy		Hi-G control
Energy-saving function	ECO-suite	ECO Power Monitor **

** The power display shows estimated values. When precise electrical values are needed, select the on-machine wattmeter option.

Optional Specifications

	Kit specifications
Programming	TEX kit
User task2	○
I/O variables (each 8 points)	○
Automatic programming (LAP4)	○
Inch/metric switching	○
Circular threading	○
Tool offset compensation	○
☐ 96 sets ☐ 200 sets (Standard 32 sets)	○
Tool wear compensation	○
☐ 96 sets ☐ 200 sets (Standard 32 sets)	○
Program storage (capacity) Standard :4GB Operation backup : 2MB	○
Milling-machine specs	△
Coordinate convert	△
Profile generation	△
Advance One Touch IGF-L (Real 3-D simulation included)	○
Real 3-D simulation	○
Spindle synchronized tapping(rigid tapping)	○
Monitoring	
Condition display with a 3-color (A-type) signal tower	○
NC operation monitor (counter, totalling)	○
NC work counter (M30)	○
Tool life management	○
Load monitor (spindle, feed axis)	○
Cycle time over check	○
DNC-T1 (Ethernet)	○
DNC-T* (PC-DNC): part program transfer	○
Additional RS232C channel	○

	Kit specifications
Gauging	TEX kit
Auto work gauging/compensation ☐ Internal ☐ External	
Touch setter tool tip ☐ Manual ☐ Automatic	
Automation / Untended Operation	
Auto chuck open/close	
Chuck pressure High/low switching	
Auto door open/close	
Air cleaner (Chuck, Turret, Spindle bore)	
Spindle orientation (Electric)	○
Extra M-codes ☐ 2 sets ☐ 4 sets	
Auto power shut-off	
Cycle time reduction	○
Other* ☐ Chuck open/close during spindle rotation ☐ Bar feeder interface ☐ Loader interface	

* Need to discuss with sales engineer

△ Multi-machining Corresponding

☐ Kit Corresponding

Dimensional Drawings

Unit: mm

