APPLIED MACHINERY

NEWAY

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NEWAY · NL SERIES

CNC Horizontal Lathes

From compact slant-bed lathes to twin-spindle turning centres and five-axis turn-mill machines, the Neway NL range covers shaft and disc work of all sizes. Heavy-duty flat-bed models extend the range to large rotors, rollers and energy components.



NLT322SY twin-spindle, twin-turret turning centre

6,000 rpm
Top turning spindle speed (NL161)

5-axis
Simultaneous turn-mill (NLM5012U)

Ø2,200 mm
Max. swing over bed (heavy flat-bed)

01 A rigid base for turning

Slant-bed machines use cast-iron structures and finite element analysis to balance rigidity, vibration damping and chip removal. Linear and box guideway designs suit different cutting duties.

02 More work in one set-up

M models add live tooling and C-axis indexing for milling, drilling and tapping. Y-axis models handle off-centre features; the NLM5012U adds a swivelling B-axis milling head.

03 Built for production

The NLT322SY combines two opposed motor spindles with two 12-station powered turrets. The upper turret has a Y-axis for more complex work.

04 Configure around the part

Options across the slant-bed range include bar feeders, parts catchers, tool measurement and steady rests. NL63Z models add geared spindles for high-torque cutting.



NL252P high-performance slant-bed



NL634Y Y-axis turning centre



NL638Z geared-spindle box way

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03 9706 8066
appliedmachinery.com.au
sales@appliedmachinery.com.au
55-61 Nissan Drive, Dandenong South VIC 3175

NL SERIES · THE RANGE

Eight families, one platform

Headline figures per family. Full specifications, options and pricing are available from Applied Machinery.



Linear Guideway & P

Compact slant-bed turning, with higher-specification P models.

Turn Ø	**320 – 500 mm**
Length	**320 – 1,250 mm**
Spindle	**up to 6,000 rpm**

NL161 · NL251/252/253 · NL403/405 · NL251P/252P/253P



Motor Spindle

Integrated motor spindles for smooth, responsive turning.

Turn Ø	**320 – 500 mm**
Length	**320 – 1,250 mm**
Spindle	**4,000 – 6,000 rpm**

NL161V · NL251V/252V/253V · NL403V/405V · NL502V/504V



Box Guideway

Wide, hardened box ways for rigid, heavy cutting.

Turn Ø	**500 – 630 mm**
Length	**570 – 3,000 mm**
Spindle	**1,000 – 3,500 rpm**

NL502/504 · NL634/635/636/638 · NL634Z/635Z/636Z/638Z



Live-Tool Turning

C-axis indexing and powered turrets combine turning and milling.

Turn Ø	**240 – 560 mm**
Length	**240 – 2,960 mm**
Spindle	**2,000 – 6,000 rpm**

NL161M · NL251M/252M/253M · NL403M/405M · NL502M/504M · NL634M/635M/636M/638M



Y-Axis Turning

Off-centre drilling and slot milling with Y-axis travel.

Turn Ø	**300 – 560 mm**
Length	**300 – 2,860 mm**
Y travel	**100 – 120 mm**

NL301Y/302Y · NL403Y/405Y · NL634Y/635Y/636Y/638Y

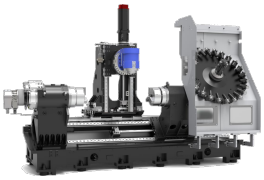


Twin-Spindle / Turret

Opposed spindles and upper/lower powered turrets.

Turn Ø	**314 mm**
Length	**550 mm**
Turrets	**2 × 12, BMT65**

NLT322SY · upper turret with Y-axis



Five-Axis Turn-Mill

Twin spindles and a B-axis head for complex surfaces.

Turn Ø	**500 mm**
Length	**1,200 mm**
Milling	**12,000 rpm**

NLM5012U · B-axis ±120° · 24-tool magazine



Heavy-Duty Flat-Bed

Large shafts, rotors and rollers, with geared headstocks.

Swing Ø	**850 – 2,200 mm**
Length	**1,500 – 6,000 mm**
Part load	**up to 20,000 kg**

NL85S · NL100S/H · NL125S/H · NL160S · NL200S

BUILT FOR

General engineering • Automotive • Aerospace • Energy • Hydraulics • Oil & gas

Figures are taken from Neway product data and vary by model and configuration. Specifications are subject to change without notice; please confirm before ordering.

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