

NORTHTECH

Machine, LLC

NT-N6230
Six Spindle Moulder



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SPINDLE ARRANGEMENT

- 1st: Bottom horizontal: 15HP, 6,000RPM, 1-13/16" spindle
- 2nd: Right vertical: 10HP, 6,000RPM, 1-13/16" spindle
- 3rd: Left vertical: 10HP, 6,000RPM, 1-13/16" spindle
- 4th: Top horizontal: 15HP, 6,000RPM, 1-13/16" spindle
- 5th: Top horizontal: 15HP, 6,000RPM, 1-13/16" spindle
- 6th: Bottom horizontal: 15HP, 6,000RPM, 1-13/16" spindle



FEED SYSTEM

- Feeding motor: 7-1/2 HP with inverter
- Elevation motor: 1/2 HP
- Feeding speed: 19 - 110FPM

PRODUCT DIMENSIONS

- Width: 10mm - 230mm (3/8" - 9")
- Thickness: 8mm - 170mm (5/16" - 6-1/2")
- Minimum length: 300mm (12")

FEATURES

- Infeed table length: 1300mm (51")
- Table is hard chrome plated
- (3) Powered bed rollers
- (1 set) Moulder heads (Included)
 - Horizontal: (3) 5" x 9"; 4 wing, 1-13/16" heads
 - Vertical: (2) 5" x 4"; 4 wing, 1-13/16" heads
 - (1) 5" x 9", helical cutterhead with (2) sided 30x12 carbide inserts
- Dust collection: (6) 125mm (5") dust ports requiring 681 CFM @ each point of extraction
- Net weight: 9,039 lbs.
- Gross weight: 10,362 lbs.
- Machine dimensions: (L) 159" x (W) 81" x (H) 71"
- Packing dimensions: (L) 168" x (W) 84" x (H) 83"
- (1) Tool box
- Warranty is one year parts
- Northtech offers a full line of dust collectors for any application.
- All machines are tested at factory prior to shipment providing trouble free start up.
- (1) Day Startup & Training included, travel expenses not included.



6th Head	5th Head	4th Head	3rd Head	2nd Head	1st Head
Bottom	Top	Top	Left	Right	Bottom
Horizontal	Horizontal	Horizontal	Vertical	Vertical	Horizontal
15HP	15HP	15HP	10HP	10HP	15HP

* Any shipping date quoted by Northtech is an estimation based on factory delivery. Northtech cannot guarantee delivery, nor do we assume any liability for delays or non-shipment arising from any cause. Pictures are for reference only, design and specifications of all Northtech Products sold are subject to change without notice. *

Machine Features



SEPARATED MOTOR AND SPINDLE

- The horizontal spindles and vertical spindle motors are separately mounted eliminating vibration transfer.
- Fitted with a high speed flat belt for premium power transfer, this configuration produces high quality finish during heavy stock removal.



CENTRALIZED PRESSURE REGULATION

- Individual pressure adjustments control the hold down rollers, jump switch for the 1st & 2nd set of hold downs, 1st bed roller, spindle brakes, and side pressure.
- They are centralized at the front of the machine for added convenience.
- Individual pressure adjustments ensure premium stability and consistent part pressure for any shape part.
- Number of zones depends on options selected.



FEED MOTOR

- Inverter controlled 7.5HP feed motor with (4) matched v-belt drives and synchronized gear box feed system provides smooth and slack free feeding.



FORWARD CONTROLS

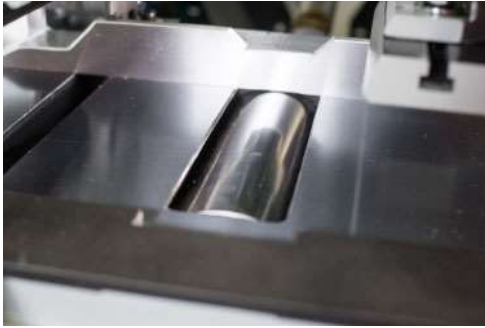
- Spindle controls centrally located at front of the machine and equipped with Siko readouts.

Machine Features



TOOLING

- Tooling included
 - (1 set) Moulder heads
 - Horizontal: (3) 5" x 9"; 4 wing, 1-13/16" heads
 - Vertical: (2) 5" x 4"; 4 wing, 1-13/16" heads
 - (1) 5" x 9", helical cutterhead with (2) sided 30x12 carbide inserts
-



POWER BED ROLLERS

- (3) Powered bed rollers provide smooth feeding.
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CENTRALIZED LUBRICATION

- Maintenance time is reduced by a centralized lubrication block of critical components.
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INFEEED BED

- 1st bottom head stock removal set via 1300mm (51") infeed jointer bed with fence.
-



SETUP MODE SERVICE LIGHT

- The setup mode warning light is activated when the mode select key is in service mode allowing operator to do a setup.
- The light is directed toward operators station which encourages them to close safety enclosure and switch to run mode, a safety feature found only on Northtech models.

Machine Features



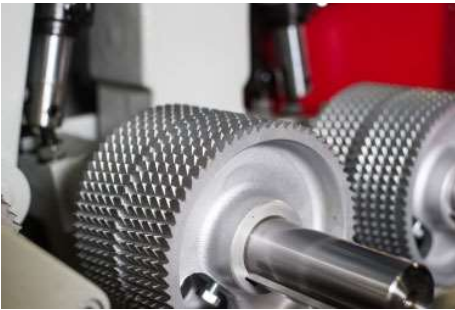
DUST COLLECTION

- Each spindle engineered with dust deflecting hoods and 5" dust port.
 - 5" dust ports require 681 CFM at each point of extraction, engineered with direct deflect hoods.
 - These direct deflect hoods are designed to take the direct impact of the removed stock and deflect it into the flexible duct work. This greatly reduces flex hose maintenance.
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VERTICAL SPINDLE ADJUSTMENT

- Allows stacking of multiple tools on the vertical spindle, eliminating changeovers. 2.25" spindle adjustment provides full utilization of a side straight knife.
 - 7" under the nut capacity.
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INFEEED ROLLERS

- Hold down assemblies with serrated infeed rollers and urethane rollers included.
 - Rollers are keyed and quickly adjustable.
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VIBRATION TRANSFER REDUCTION

- All horizontal motors over 15HP are fitted with shock absorbers to reduce vibration transfer from motor.
- Leveling mount plates make adjustment to floor variations effortless.

Machine Features



INFEEED CONTROLS

- Inside fence and infeed bed are easily adjustable with turn lock levers.
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CONTROL PANEL

- Control panel located at operator position gives operator total control of machine at the push of the button.
 - Panel configuration varies between models and options.
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ADJUSTABLE BED PLATE

- Last bottom head has adjustable bed plate to maintain tight tolerances on various diameter profiles.
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OPERATOR WINDOW

- Infeed viewing pane allows operator visibility of inside machine while feeding.

Machine Features



SECONDARY CONTROLS

- Secondary control station at front of machine allows operator control of feed forward/reverse feed and main beam raise/lower.



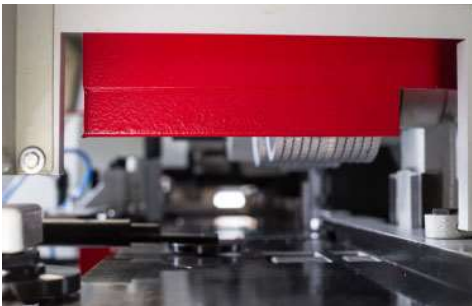
HEIGHT GAUGE

- Linear gauge for height is clearly visible from operators position for quick reference.



NOISE REDUCTION FINGERS

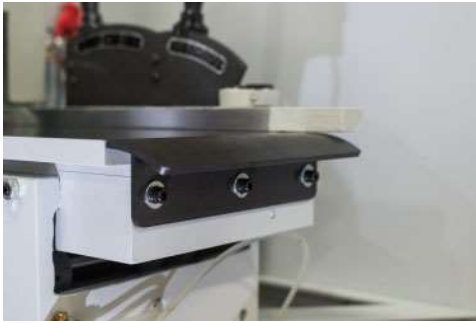
- Bed plate fingers reduce noise caused from "air hammering" when running straight knives for quieter operation.



HEIGHT LIMIT SWITCH

- Over height limit switch protects machine from accidental double feeding.

Machine Features



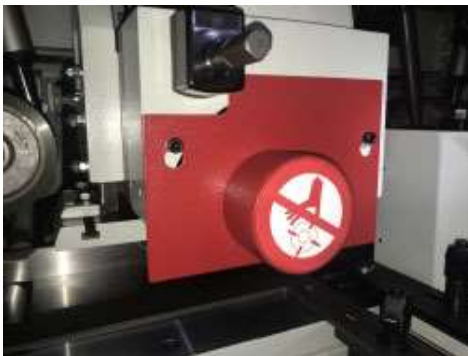
EASY FEED

- Infeed deflector reduces operator from hitting a dead stop when feeding. (Standard only on the 51" infeed)



ELECTRICAL

- UL/CE Certified Electrical Components with many integrated and comprehensive safety guards. All enclosed in a dust proof electrical cabinet, that is mounted to the machine sub frame.
- Secondary 120V service entrance allows operator to have the enclosure lights on while machine is locked out during tool changes, this is a safety feature only available on Northtech Moulders.



QUICK REMOVE GUARDS

- Outboard side of spindle.
- Both horizontal and vertical heads are equipped with full quick remove guards for faster changeovers and easier access.



- All NT Moulder Sound Enclosure designed with a no dust shelf door.
- Eliminates the amount of dust ending up on operators neck upon entry, a feature only available on Northtech Moulders.

Machine Features



- Enclosure lights are on secondary service which allows operator illuminated visibility while machine is locked out for tool changes, a safety feature only available on Northtech Moulders.



AUXILIARY FEEDER

- Retractable short stock feeder easily lifts out of the way for tool changes: then quickly folds back in place for added part hold.



BED PLATE OILER

- Oiler is on its own switch and is programmable by frequency and volume of lubricant.
- Multiple bed plate ports ran single unit located at operators position.

Machine Features



SAFETY INTERLOCK

- Sound dampening enclosure is equipped with safety interlock on door to prevent operator entry once in run mode. (Mounting position varies between models)



TOOL BOX & MANUAL

- Manual and tool box with tools, spacers, and safety head wrench (\$650 value) prevents chipped and nicked tooling (Included)

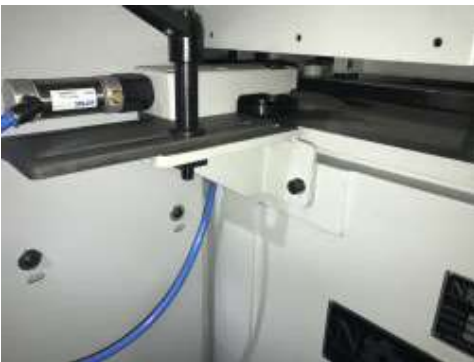
Machine Options



(Shown with guard removed)

SPINDLE DIGITAL POSITIONING CONTROLLER (OPTIONAL)

- Each moveable spindle equipped with its own digital control station.
- This digital positioning controller permits fast, convenient and high accuracy spindle positioning at a push of a button.
- 50 Preset Memory Recall per controller



INFEEED SIDE PRESSURE ROLLERS (OPTIONAL)

- Pneumatic rollers ensure part is held tight against the fence as parts is fed into machine. (design varies between models)



FIRST VERTICAL SPINDLE SIDE PRESSURE ROLLERS (OPTIONAL)

- Pneumatic rollers ensure part is held tight against the fence directly across from 1st inside head (design varies between models).



FEED MAGAZINE (OPTIONAL)

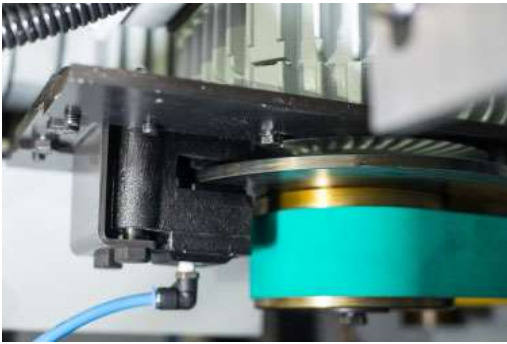
- This feeder provides maximum convenience for feeding short stock into the machine, keeping downtime to the minimum, and increasing the rate of productivity.
- Especially helpful for continuous feeding of short stock.

Machine Options



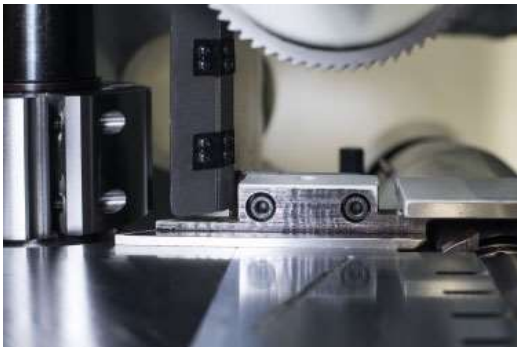
UNIVERSAL SPINDLE (OPTIONAL)

- This spindle can be tilted for complicated moulding profiles (0 - 270° rotation)



SPINDLE BRAKES (OPTIONAL)

- Spindles are equipped with pneumatic brakes that are adjustable through the central pneumatic control system.



BUILD UP REDUCER (OPTIONAL)

- 1st bottom head with side groover included.
- This feature is extremely helpful in preventing splinters that wedge and force part away from fence.

Machine Options



INFEED BED (OPTIONAL)

- 1st bottom head stock removal set via 1800mm (71") infeed jointer bed with fence.



INFEED BED (OPTIONAL)

- 1st bottom head stock removal set via 2500mm (96") infeed jointer bed with fence.



INFEED BED (OPTIONAL)

- 1st bottom head stock removal set via 4500mm (154") infeed jointer bed with fence.



POP UP INFEED (OPTIONAL)

- Both 1st and 2nd infeed roller as well as 1st bed roller index out of passline for easy set up.

Machine Options



LOW AIR ALERT (OPTIONAL)

- Equipped with a low air shut off. Machine will not run when there's an inadequate air supply.
- Included with spindle brake options.



PNEUMATIC SHOES (OPTIONAL)

- Pneumatic shoes in front of horizontal heads provide constant pressure as the part enters the cut.



PNEUMATIC CHIP BREAKERS (OPTIONAL)

- Pneumatic chip breakers in front of horizontal heads provides constant pressure as the part enters the cut.



8000 RPM (OPTIONAL)

- Upgrade to 8,000 RPM for more knife marks per inch.

Machine Options



PLC CONTROLS (OPTIONAL)

- Upgrade to single user interface for control on all moveable spindles.
- Allows operator to select pre loaded programs for quick reference.

PRODUCTWIDTH
260MM (10.2")



EXTRA PLANING WIDTH (OPTIONAL)

- Allows additional planing width for a total of 260mm (10.2")



PRODUCTHEIGHT
200MM (8")

EXTRA HEIGHT (OPTIONAL)

- Allows additional height for a total of 200mm (7.8")



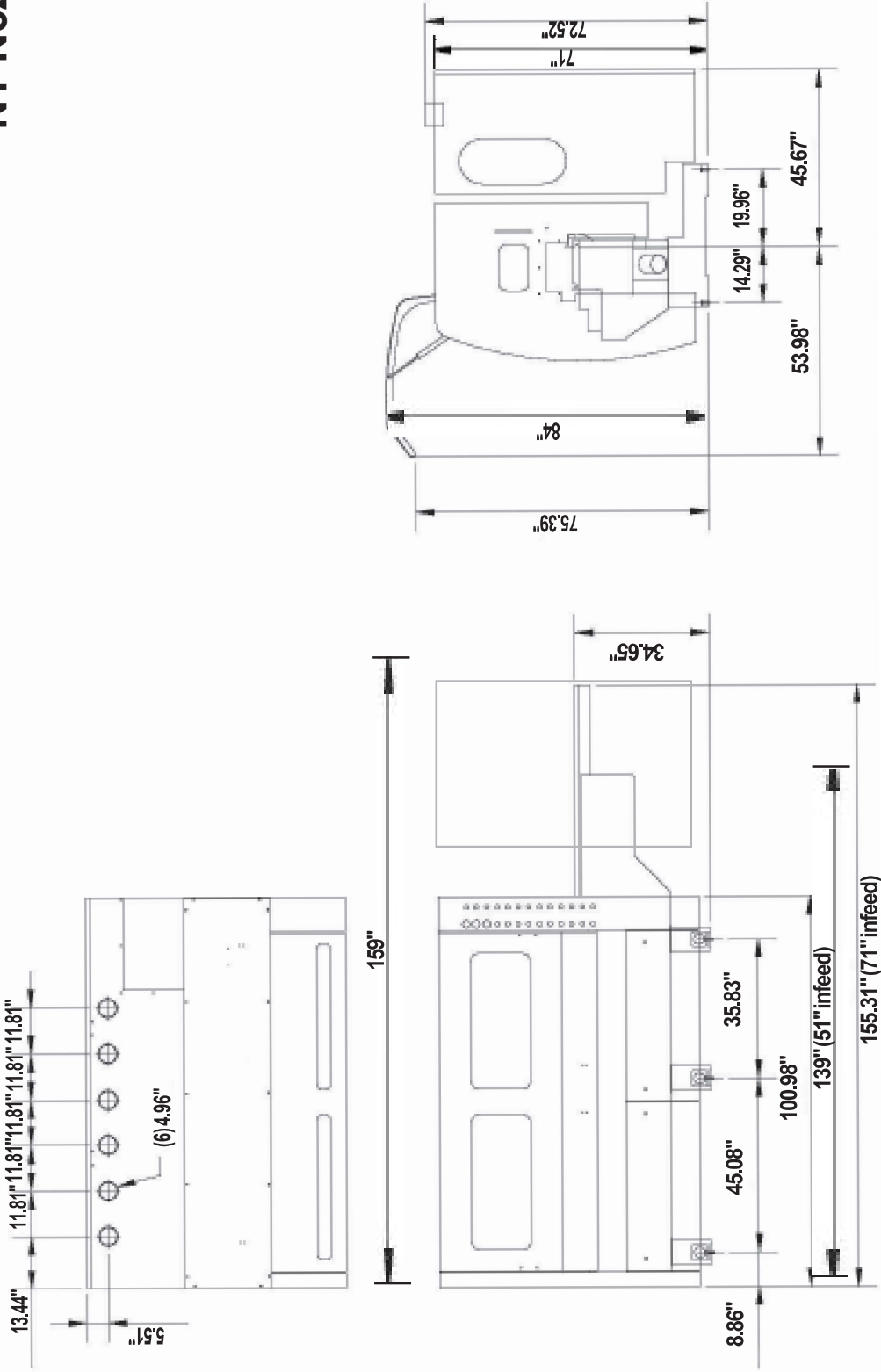
PRODUCTHEIGHT
230MM (9")

EXTRA HEIGHT (OPTIONAL)

- Allows additional height for a total of 230mm (9")



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