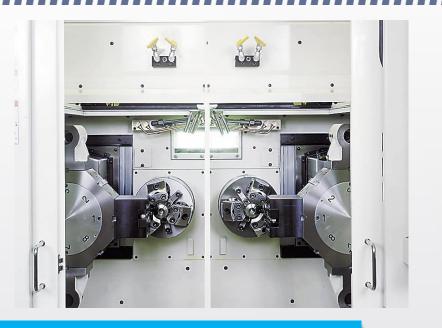
# TAKAHASHI Machinery



Parallel 2-SPINDLE PRECISION TURRET LATHE

#### Merit for Parallel & Dual spindle!!

complete finished products can be output by one machine

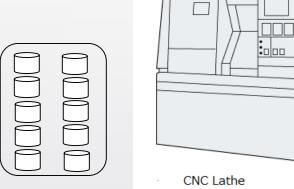


OP-10&OP-20

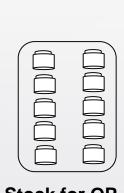
#### Merit for Parallel & Dual spindle!!

#### Less error, and not obtain a higher manufacturing yield!!

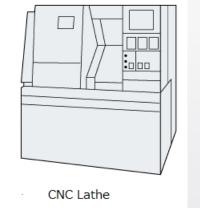


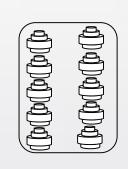






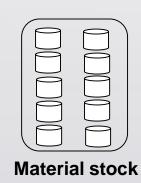




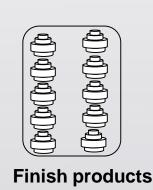


You need 20stocks to finish







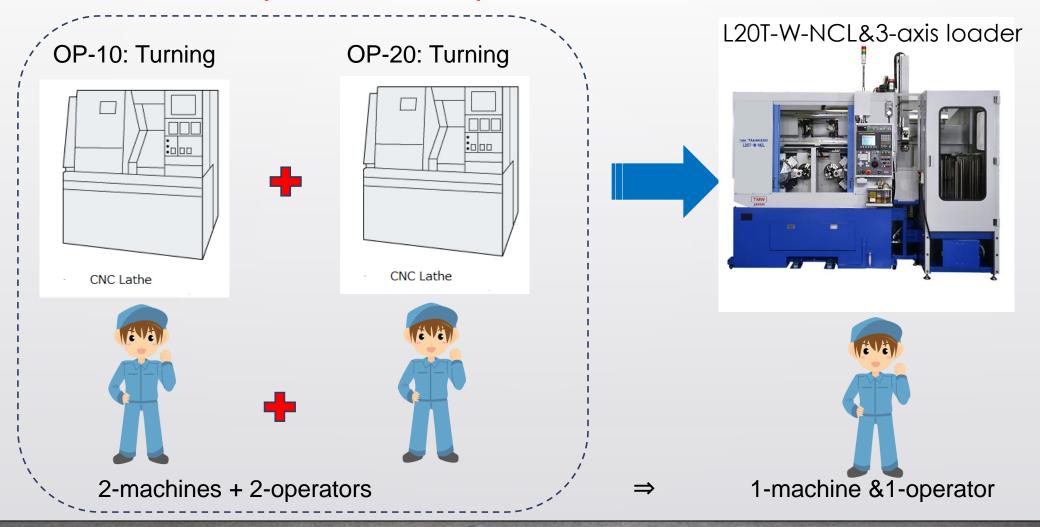


You need only 10-stocks to get final products

loader

#### Merit for Parallel & Dual spindle!!

#### Save floor space, save operator and save cost!!

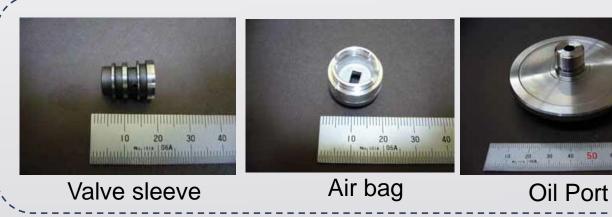


## Sample parts for Parallel & Dual spindle!!

#### Various parts for automobile!!





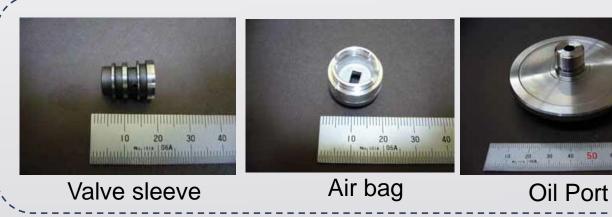


## Sample parts for Parallel & Dual spindle!!

#### Various parts for automobile!!

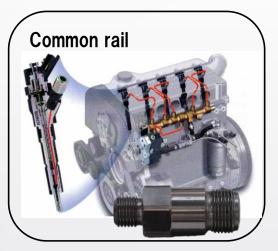






## Type of machines we can serve for Automobile









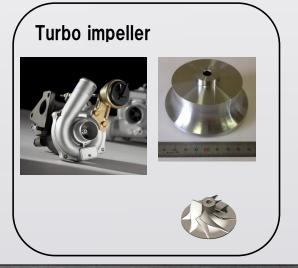
# WD50 (PARALLEL TWIN SPINDLE TWIN TURRET)

Chuck dia.	6+6
Turret	8+8
Spindle speed	6000
Spindle motor(Kw)	5.5/2.2
Milling speed	10000/5000
Milling motor	2.2/1.5



# **L20T-W** (PARALLEL TWIN SPINDLE TWIN TURRET)

Chuck dia.	8+8
Turret	8+8
Spindle speed	4000
Spindle motor(Kw)	11/7.5



# Automation for Parallel & Dual spindle!!



L3 II -W-NCL&3-axis loader



L20T-W-NCL&3-axis loader

	L5T-W-NCL	WT-50NCL	L20T-W-NCL	L3 II -W-NCL	L60FB-NCL	L70FB-NCL
2-axis robot						
3-axis robot						
W-gantry		$\triangle$		$\triangle$		
Loader chuck size	φ75mm	φ50mm	Ф75mm	Ф50mm	φ38mm	Ф75mm

# L20T-W-NCL: Heavy duty work







#### **Future**:

- 1. Spindle & Headstock: Rugged & rigid construction ensure heavy duty cutting (max. 8 inch chick is available)
- 2. Configured by twin turret type tool post and twin powerful rigid spindle (11.0/7.5Kw motor).
- 3. 8-station Turret: High rigidity & High precision "Three piece coupling" system
- 4. X & Z axis slideway: Precision Liner guide on X axis. Box way with Turcuite sheet on Z axis for high repeatability.
- 5. The 3-axis gantry loader enables continuous production of auto parts

# L3II-W-NCL: High accurate gang type

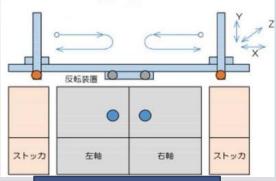


#### **■** Future:

- 1. Spindle & Headstock: Built-in motor with oil chiller keep stable accuracy at all speed. 8000rpm spindle speed is available as options.
- 2. Gang type tooling ensure high accuracy and higher productivity.
- 3. Dovetail groove ensures high rigidity.
- 4. Sub micron control provide ensured high accuracy machining
- 5. Two loaders operation is available as options.







# WT50-NCL:Live tools are equipped

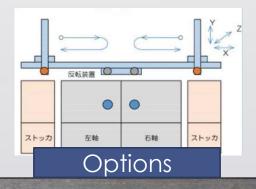


#### **■** Future:

- 1. Live tools are standard for both turret (Max 8-tools).
- 2. Y-axis (±25mm) ensure the off-set work.
- 3. Max 10000rpm milling spindle is standard
- 4. Roundness: below 0.3 µm, Surface roughness: below 0.8s
  - , Cold starts: below 5 µm can be achieved (In case test piece in factory).
- 5. Two gantry is available as option for short cycle work.

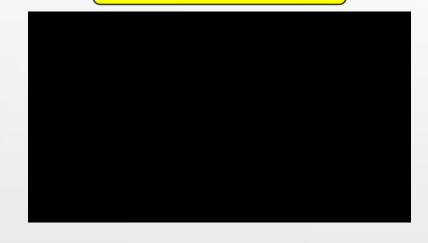






## Movies

L3 II -W-NCL



WT50



L20T-W-NCL

