

NHK BUILDER



Counter Flow Rolling Machine

Standard Model

CT-400

CT-600

PCT-1000



PCT-1000E

PCT-1000hbc

Hydraulic driven PCT-1000 has been remodeled.

- More rigidity and precision than the previous model.
- Requires less floor space by 40% compared with the previous model.
- Easier to maintain than ever.
- Custom fit for each automated manufacturing requirement.



PCT-1000E

Driven by AC Servo and ball screws.

- Energy efficient.
- Requires less floor space.
- Feeds and positioning controls by NC programs.
- Adopt to "hydraulic less" manufacturing line.



■ Standard series

Spline rolling machine	CT-400	CT-400E	CT-600	CT-600E	PCT-1000	PCT-1000E
Spline diameter *1	φ 20	φ 20	φ 30	φ 30	φ 50	φ 50
Max. rolling module *2	1.0	1.0	1.5	1.5	1.5	1.5
Tool layout width *3	~100	~100	~150	~150	~200	~200
Tool length *4	~450	~450	~665.2	~665.2	~928	~928
Part length(Std. spec.) *5	300	300	300	300	300	300
Coolant tank (L)	40	40	60	60	100	100
M/C width x length *6	750x800	750x800	1000 x 1300	1000 x 1300	1200x1510	1200x1510
M/C height *7						
Single rod cylinder driven	2250~	-	3044~	-	2950~	-
Double rod cylinder driven	2850~	-	3849~	-	4085~	-
AC servo driven	-	2050~	-	2642~	-	3600~
Process height *8	950~	950~	1050~	1050~	1450~	1450~
M/C weight (ton)*9	2.0	2.0	6.0	6.0	7.0	7.0
Custom designed						
Front center fixture	○	○	○	○	○	○
Rear center fixture	○	○	○	○	○	○
Part setting fixture	○	○	○	○	○	○

(mm)

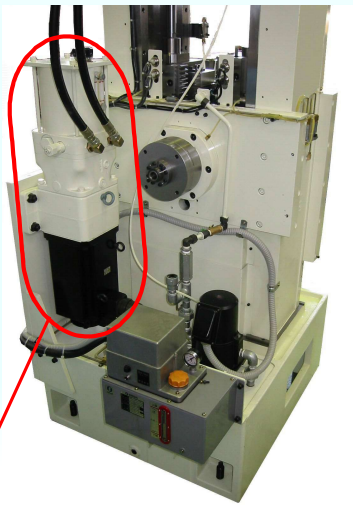
Note

- *1、*2 Part specifications must be presented in order to select a machine model.
- *3、*4 Design modifications are made upon actual tools and tool layouts.
- *5 Modifications are made for each work piece.
- *6、*7、*8、*9 Examples. These would vary with users requirements.

CT-400hbc

More rigidity, more precision and faster M/C cycle.
Ideal small counter flow rolling machine for any work conditions.

- CT-400 requires minimum floor space.
Requires 55% less floor space from previous model.
M/C width of 750mm is the smallest on the market.
- Extended the maximum fixed tool length from 400mm to 450mm.
- Different variation of machines to match each customer's need.



HHD unit



CT-400h Back view.
HHD unit can be attached on the M/C.

Model Indication

CT- 600 hbo

Slider drive method

H	Hydraulic driven
hbo	Hybrid hydraulic driven, open
hbc	Hybrid hydraulic driven, closed
E	Servo motor + ballscrew drive

Machine Model

400,600,700

PCT- 1000 H

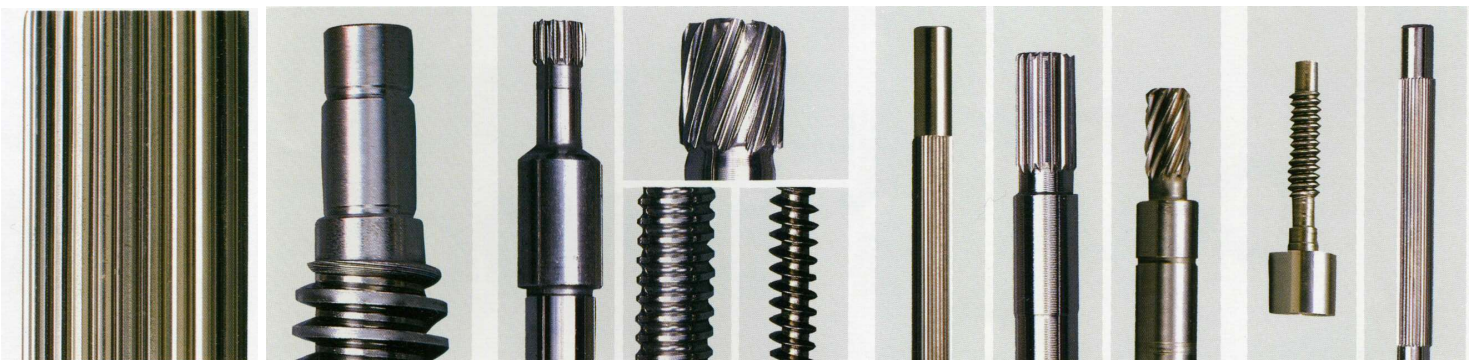
Slider drive method

H	Hydraulic driven
hbo	Hybrid hydraulic driven, open
hbc	Hybrid hydraulic driven, closed
E	Servo motor + ballscrew drive

Machine Model

700,1000,1200

Product Examples



CT-600hbo

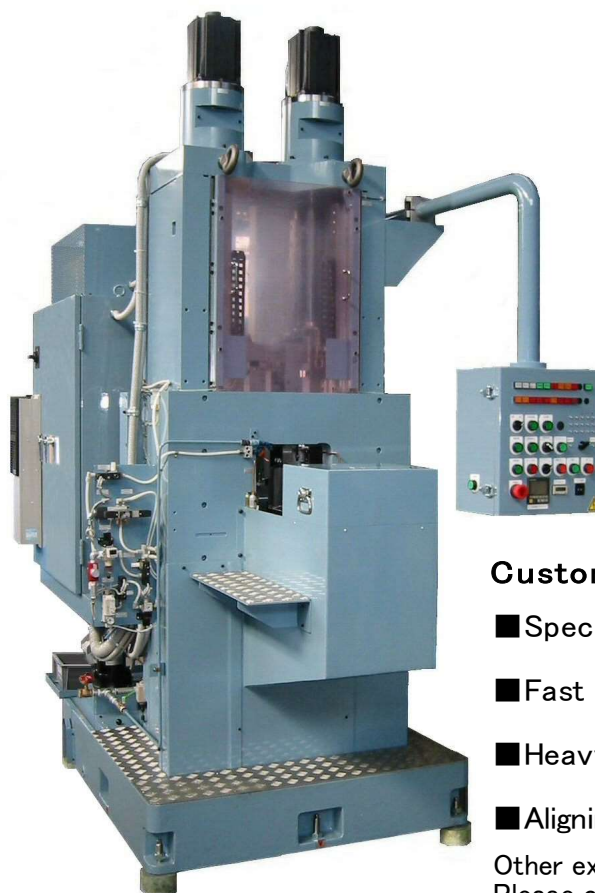
Our best selling 24-inch rolling machine. This hydraulic driven model is very reliable due to its virtually maintenance free durability.



PCT-700E

Custom model Examples

This servo motor and ball screw driven model allows flexible tool setting.



Custom Model Options

- Special tool layout.
- Fast machine cycle time.
- Heavy load rolling.
- Aligning teeth rolling.

Other exceptional rolling is possible. Please contact us for details.

Custom model Examples

Spline rolling machine	CT-400W	CT-600W	PCT-700E	PCT-1200	PCT-1200E
Spline diameter *1	φ 20	φ 30	φ 35	φ 55	φ 55
Max. rolling module *2	1.0	1.5	1.5	1.5	1.5
Tool layout width *3	160+50	~250	~200	~200	~200
Tool length *4	~410	~665.2	~715.2	~1252	~1252
Part length(Std. spec.) *5	300	300	300	300	300
Coolant tank (L)	90	120	100	100	100
M/C width x length *6	1050x1432	1440 x 1455	1200 x 1510	1200x1510	1200x1510
M/C height *7					
Single rod cylinder driven	2250	2950	-	3600	-
Double rod cylinder driven	2850	3820	-	-	-
AC servo driven	-	-	3400	-	4300
Process height *8	950	1050	1350	1855	1855
M/C weight (ton)*9	4.0	7.0	6.5	8.0	8.0
Custom designed					
Front center fixture	○	○	○	○	○
Rear center fixture	○	○	○	○	○
Part setting fixture	○	○	○	○	○

(mm)

Note

*1、*2 Part specifications must be presented in order to select a machine model.

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*5 Modifications are made for each work piece.

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NHK BUILDER CO.,LTD.

57 Miyahigashi Kashiya Okazaki Aichi
 〒444-3622 JAPAN
 Phone 81-564-82-3138 Fax 81-564-82-287
 9
 E-mail webmaster@nhk-builder.co.jp