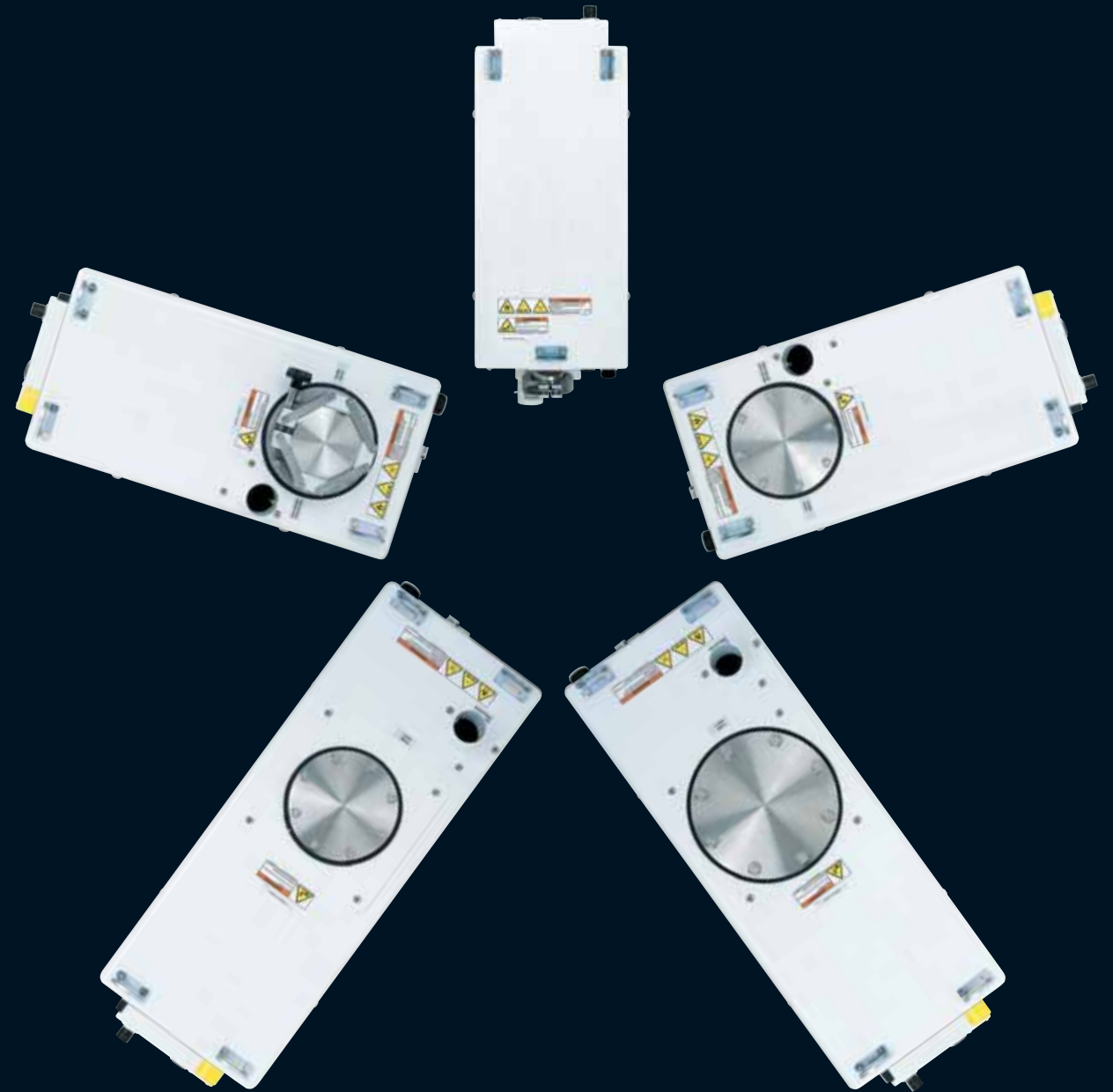




# DRYPUMP SERIES

EC100L/T100P-H/T600-H/T1000-H/T1200-H/T1800-H



## TOYOTA INDUSTRIES CORPORATION

### Headquarters

2-1, Toyoda-cho, Kariya-shi, Aichi 448-8671 Japan  
Phone: +81-(0)566-27-5699 FAX:+81-0566-27-5659

### USA

44901 Industrial Drive, Fremont, CA 94538 USA  
Phone:+1-510-440-8615 FAX:+1-510-440-8108

<http://www.toyota-shokki.co.jp/drypumps>

E-mail: drypump@mm.toyota-shokki.co.jp

■All contents are subject to change without prior notice. ■Toyota Industries Corp. is ISO9001 and ISO14001 certified.  
■Judgement of Foreign Exchange and Foreign Trade Control Law is necessary for exporting pump  
■Catalogue is based on the specification on DEC2007



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Printed in Japan Z0802011000001E

TOYOTA INDUSTRIES CORPORATION

# T series evolution - New full lineup

Toyota Industries Corporation supports motorization of the world as a foundation of Toyota group.

The new T series: integration of know-how cultivated in Semiconductor field and new technologies.

Keeping the interchangeability with the previous series, the reliability on harsh process is further improved.

Qualified for semiconductor process applications with superior performance and reliability.

- Improvement of byproduct removal for harsh CVD processes.
- Full lineup with variable pumping speed  
(Pumping speed : 100 - 1800 m<sup>3</sup>/h, 1,670 - 30,000 L/min).
- User-friendly, easy to install, operate and control
- Environmentally-friendly product with RoHS directive full compliance



T100P-H

T600-H

T1000-H

T1200-H

T1800-H

100m<sup>3</sup>/h  
1,670L/min

300m<sup>3</sup>/h  
5,000L/min

600m<sup>3</sup>/h  
10,000L/min

950m<sup>3</sup>/h  
15,800L/min

1,000m<sup>3</sup>/h  
16,700L/min

1,200m<sup>3</sup>/h  
20,000L/min

1,800m<sup>3</sup>/h  
30,000L/min

T100P-H  
EC100L

T600-H

T1000-H

T1200-H

T1800-H

## High Reliability

- Improvement of powder handling by adopting new developed rotor.
- Improvement of byproduct removal by optimizing N<sub>2</sub> purge flow.
- Improvement of restartability after shutdown by increasing the startup torque with motor motion control.
- Precise temperature control to reduce byproduct deposition.

## Low Running Cost

- Adoption of roots technology to minimize power consumption.
- Best-in-class low power consumption due to adoption of high efficiency motor and reduction of mechanical loss

Power consumption **1.7kW** (T1800-H)

## Compact design

- Compact and light-weight design by 3D · CAD cultivated through automotive technology
- Best-in-class compact footprint achieving effective utilization of Fab space.

## Quiet & Low Vibration

- Best-in-class quietness due to adoption of noise reduction technology cultivated through automotive technology
- Low vibration design suitable for cleanroom environments.

## Restriction of Hazardous Substances

- Environmentally-friendly product with RoHS directive full compliance

Note : ● newly developed items

Note: Photo, full option for all pumps





# T1200-H



(Full option)

# T1800-H



(Full option)

T1200-H    PVD   Asher   Etcher   Implant   LP-CVD   P-CVD

T1800-H    PVD   Asher   Etcher   Implant   LP-CVD   P-CVD

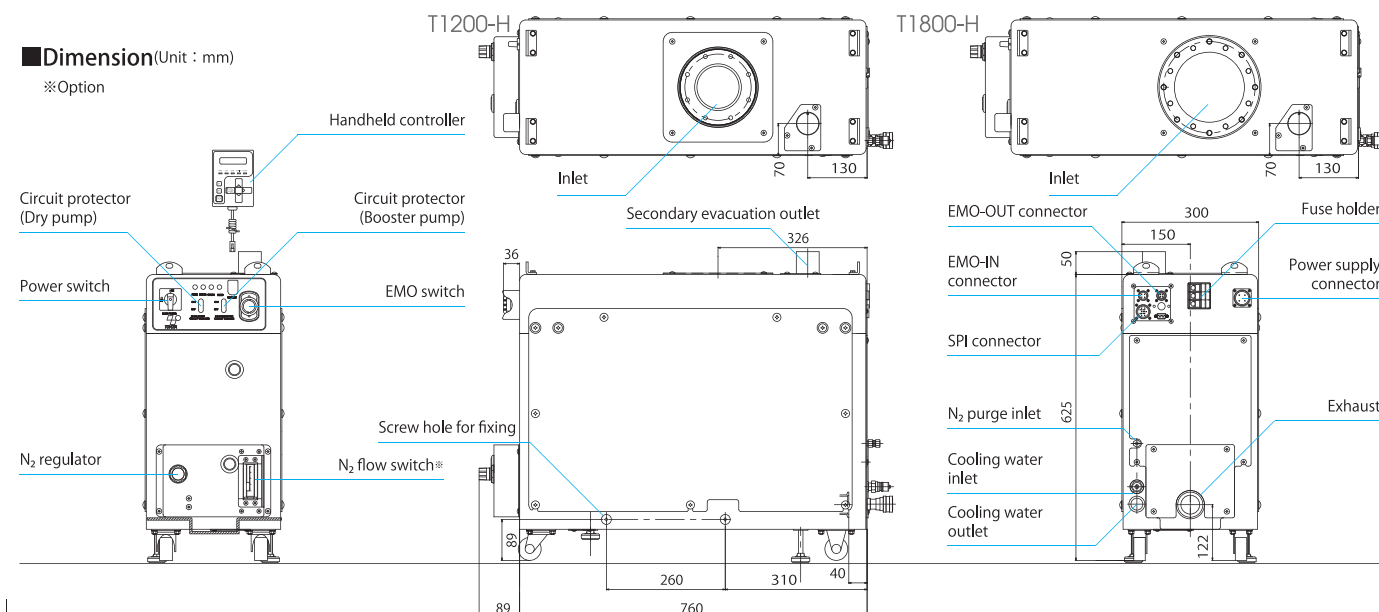
## ■Specification

Pump name	Unit	T1200-H	T1800-H
Application		Harsh process	Harsh process
Maximum pumping speed	m <sup>3</sup> /h L/min	600~1,200 10,000~20,000	950~1,800 15,800~30,000
Ultimate pressure	Pa	0.13(Note1)/0.93(Note2)	0.13(Note1)/0.93(Note2)
Inlet flange		ISO100 bolted	ISO160 bolted
Outlet flange		NW40	NW40
Power consumption at ultimate pressure	kW	1.7	1.7
Dimensions(L×H×W)	mm	760×625×300	760×625×300
Weight	Kg	230	240
Sound level at ultimate pressure	dB(A)	<58	<60
Cooling water	Connector	Inch 3/8	3/8
	Flow rate	L/min >3.0	>3.0
	Supply pressure	kPaG 300~700	300~700
	Temperature	°C 10~25	10~25
N <sub>2</sub> purge	Connector	Inch 1/4(Compression fitting)	1/4(Compression fitting)
	Flow rate	slm 7~50	7~50
	Supply pressure	kPaG 300~700	300~700
Secondary evacuation	Connector	mm ∅50	∅50
	Flow rate	m <sup>3</sup> /min >1.76	>1.76
	Duct static pressure	PaG <-190	<-190
Power supply	Max. Power supply	kVA 9.2	9.2
	Phase/Voltage/Frequency	3phase208V(Note3)/50・60Hz	3phase208V(Note3)/50・60Hz
Environment	Ambient temperature	°C 15~30	15~30

Note1) N<sub>2</sub> purge 0 slm Note2) N<sub>2</sub> purge 35slm Note3) Fluctuation allowance ±10%

## ■Dimension(Unit : mm)

※Option



## Option parts

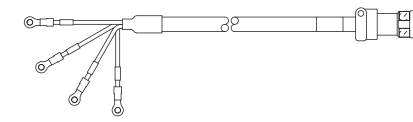
(Drawing :reference)

### Power supply cable

PWC—

①

②



Edge treatment : Terminal for M5 screw

#### ① Pump type

a	EC100L
b	T100P-H
c	T600-H
d	T1000-H
e	T1200-H
f	T1800-H

#### ② Cable length

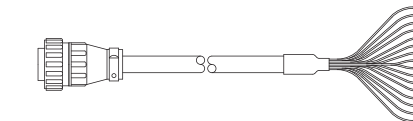
01	only connector
02	2.5m
03	5m
04	10m
05	15m
06	20m

### SPI cable

SPI—

③

④



Edge: No treatment

#### ③ Pump type

a	EC100L
b	T100P-H
c	T600-H
d	T1000-H
e	T1200-H
f	T1800-H

#### ④ Cable length

01	only connector
02	2.5m
03	5m
04	10m
05	15m
06	20m

### Cooling line

WL—

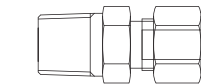
⑤

⑥

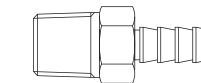
⑦

⑧

Pipe connector



Hose barb



#### ⑤ Pump type

a	EC100L
b	T100P-H
c	T600-H
d	T1000-H
e	T1200-H
f	T1800-H

#### ⑥ Material

01	SUS
02	Brass

#### ⑦ Connector type

a	Only nipple coupler
b	Pipe connector
c	Hose barb

#### ⑧ Size Connector (outlet)

01	NA
02	1/4inch※
03	3/8inch

※EC100L, T100P-H only

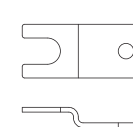
### Bracket

BR—

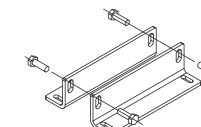
⑨

⑩

Adjuster fixing type  
(Material SUS)



Side surface fixing type  
(Material SUS)



#### ⑨ Pump type

a	EC100L
b	T100P-H
c	T600-H
d	T1000-H
e	T1200-H
f	T1800-H

#### ⑩ Fixing position

Fixing position	Fixing point	Applicable pump
01 Adjuster	2	EC100L, T100P-H
02 Adjuster	4	T600~T1800-H
03 Side surface	2	EC100L, T100P-H
04 Side surface	2	T600~T1000-H
05 Side surface	2	T1200~T1800-H

### Handle for T100P-H

