

The world minimum footprint

**FULL AUTOMATIC
DICING SAW
AD3000T**

Tokyo Seimitsu Co.,LTD.

NOTICE for CONFIDENTIALITY

The confidential contents which should be protected legally are contained in this documents.
These contents should be treated based on the confidential maintenance contract.



ACCRETECH **Twin** Dicer Series

1999

2000

2001

2006

2011

The first in the world twin dicer is released.

A-WD-200T

First **Twin**-spindle dicer for 200mm

Unprecedented accuracy
Highest throughput



A-WD-300T, 300TLDP

First **Twin**-spindle dicer for 300mm

Highest throughput
Proven accuracy and reliability

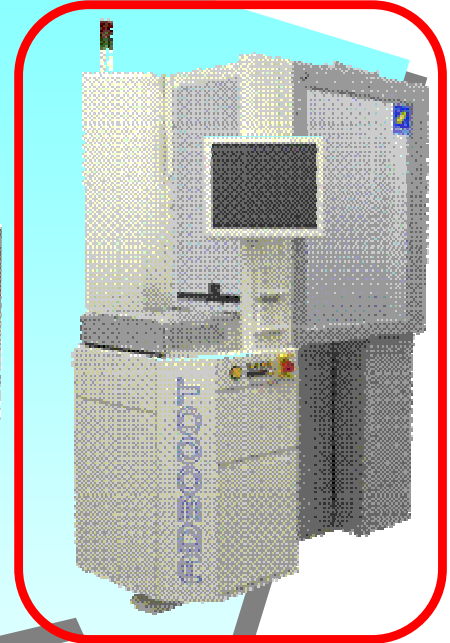


A-WD-300TX

High speed spindle: 80,000 RPM
Higher throughput
Improved quality for Ultra-thin wafers



AD3000T



- Smallest machine
- Fastest machine
- Easy operation

Model name/Product concept

Model name

AD3000T

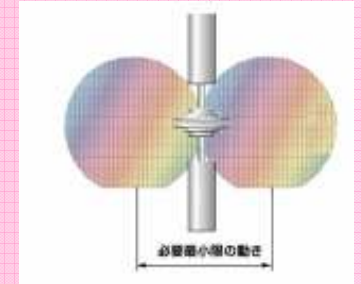
T = Face-to-Face Twin-spindle

3000

= Size of workpiece : 12 inch

= Machine type : Fully automatic dicing saw

AD = company's name: Accretech Dicer



Product Concept

Fully automatic dicing saw for 12 inch workpieces, with improved CoO, high throughput, less energy consumption and reduced footprint.

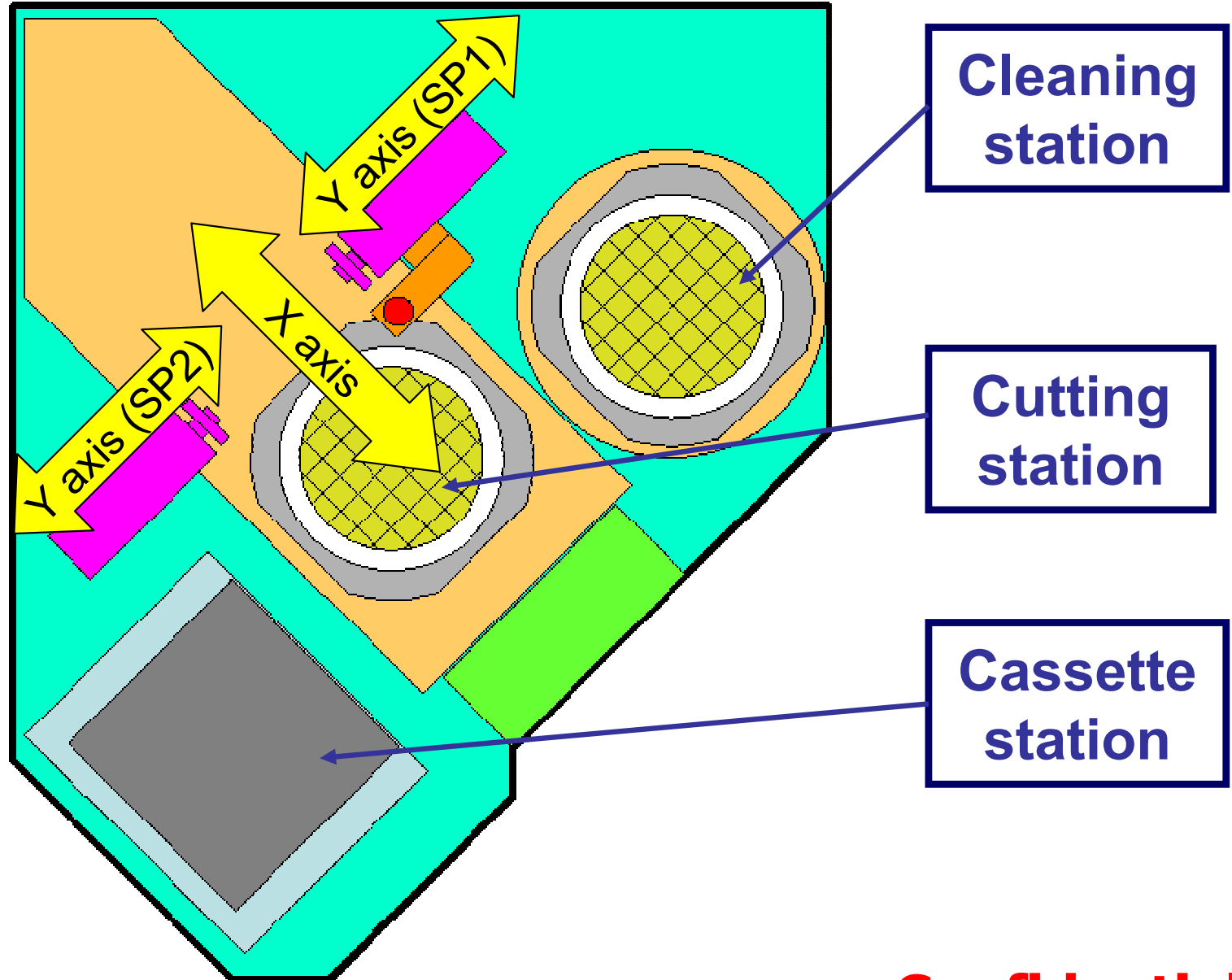


Exterior of AD3000T



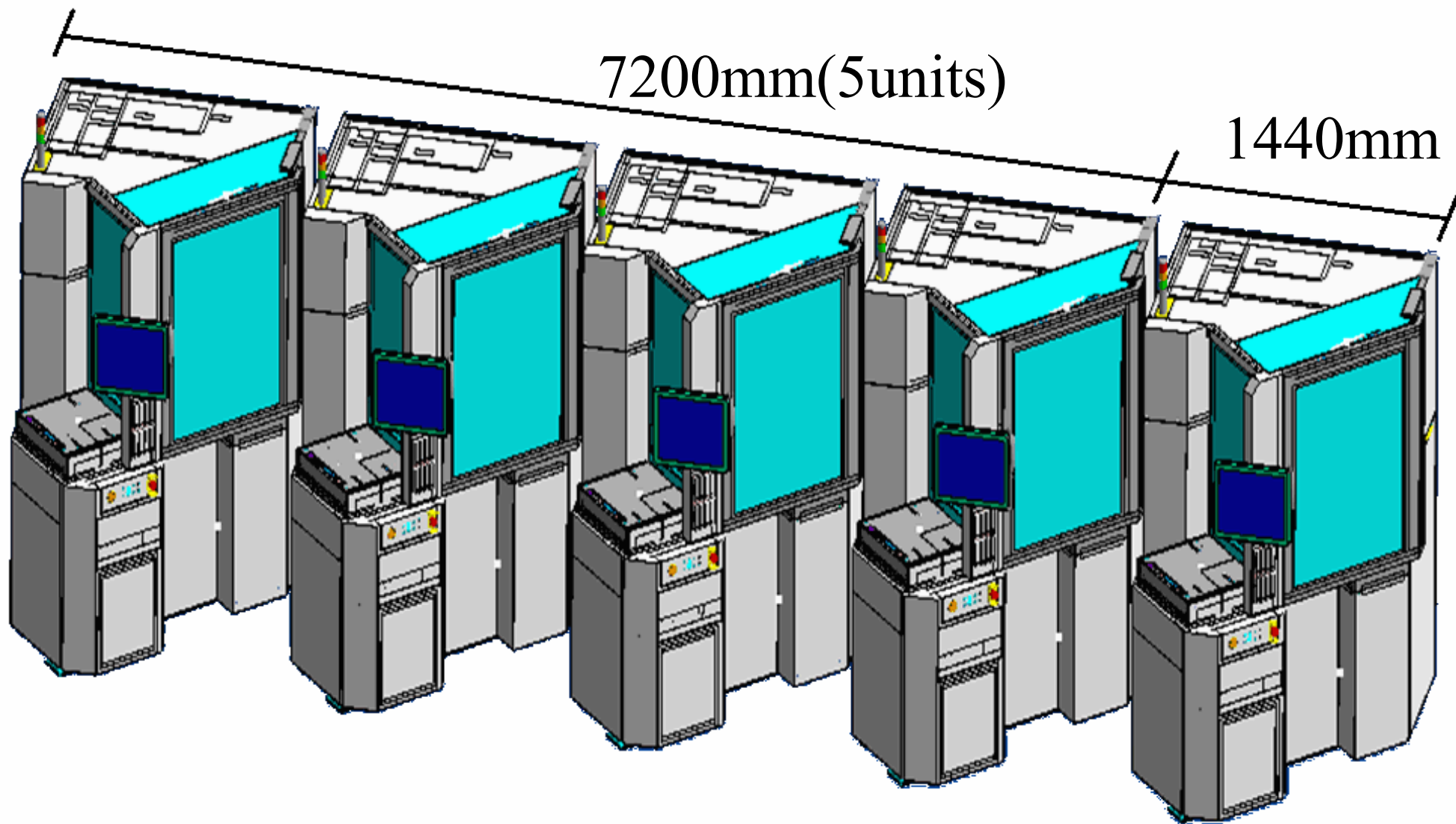


Component Layout







Sample Layout



Throughput Comparison

	AD3000T	DFD6361
Exterior		
Footprint	1.61m ²	1.86m ²
X-axis max speed	1000mm/sec	600mm/sec
Y-axis max speed	300mm/sec	200mm/sec
Throughput ratio	1.00	1.10



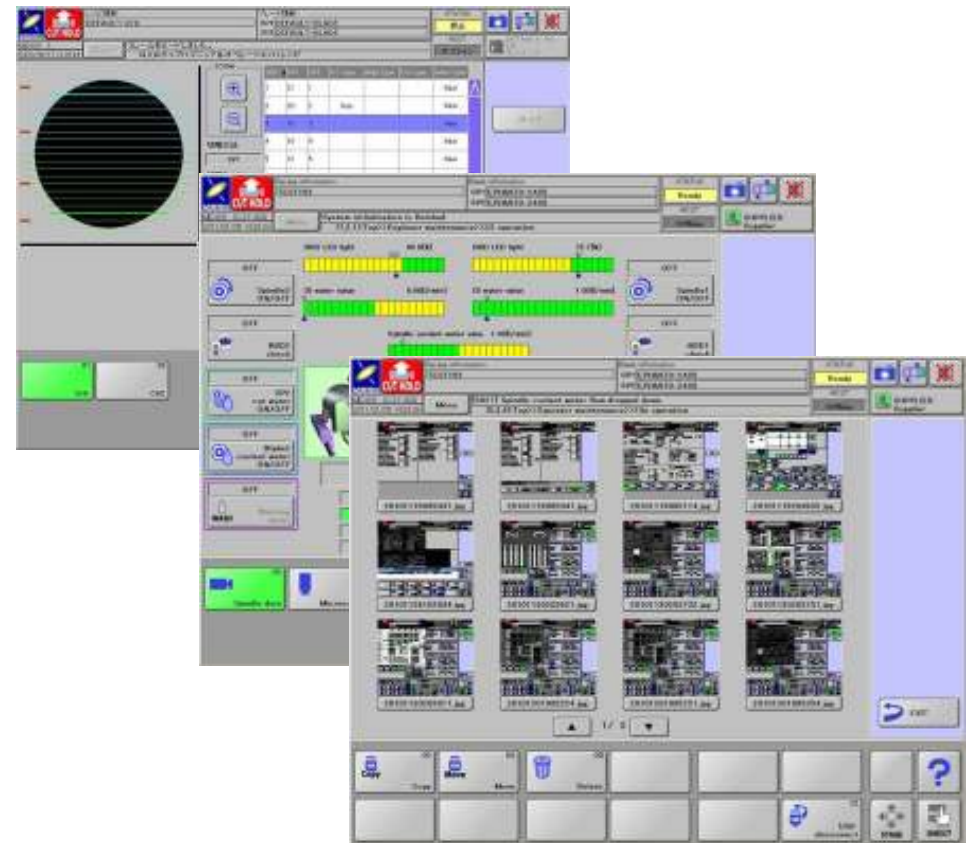
Total Time Saved = 10% reduction



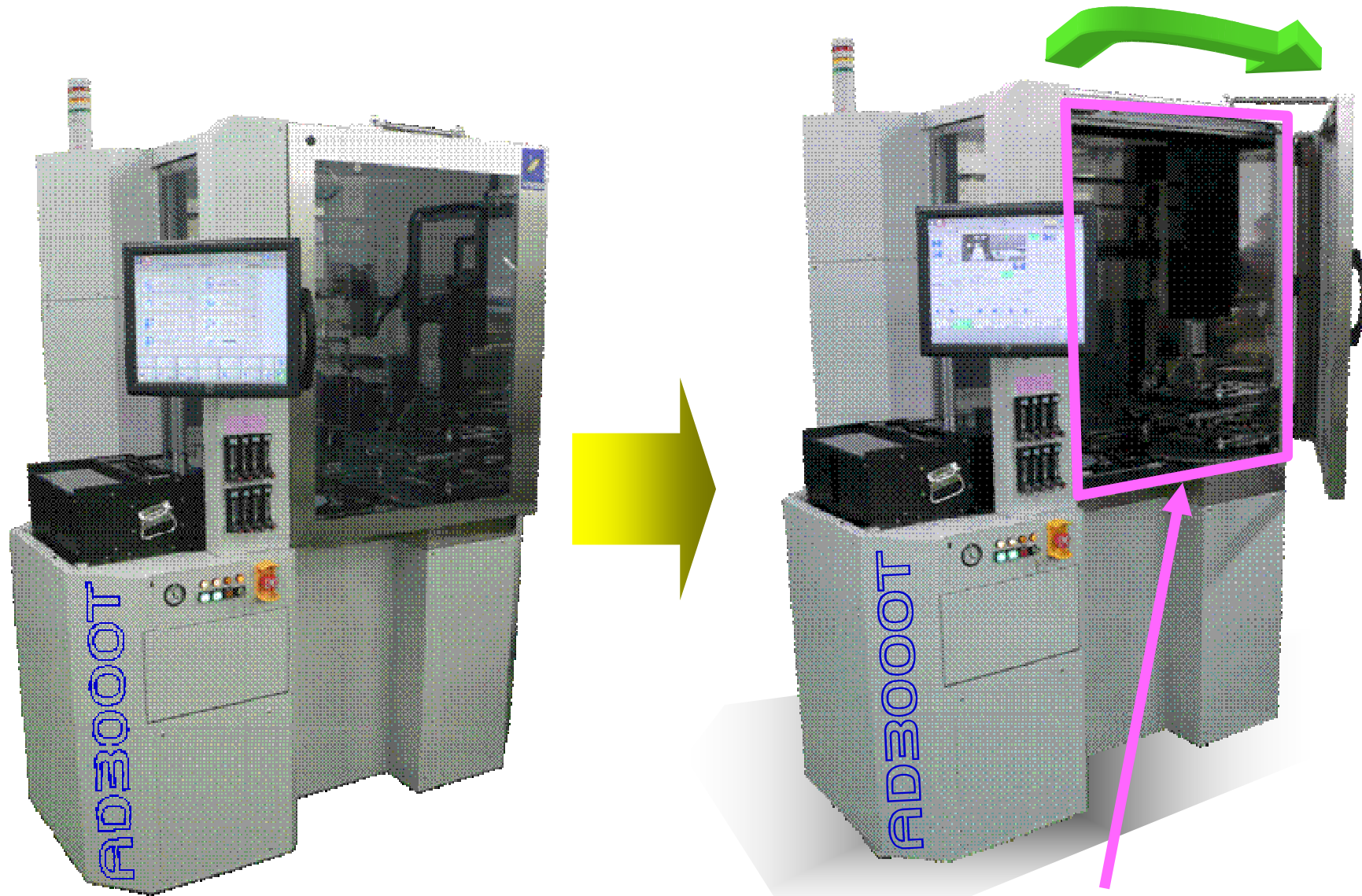
The good point of the new GUI

◆ The improvement of the operability, the visibility

It made all button an icon and it made the button and a character big. Also, it used a graphic and it improved operability visually.



Easy Access

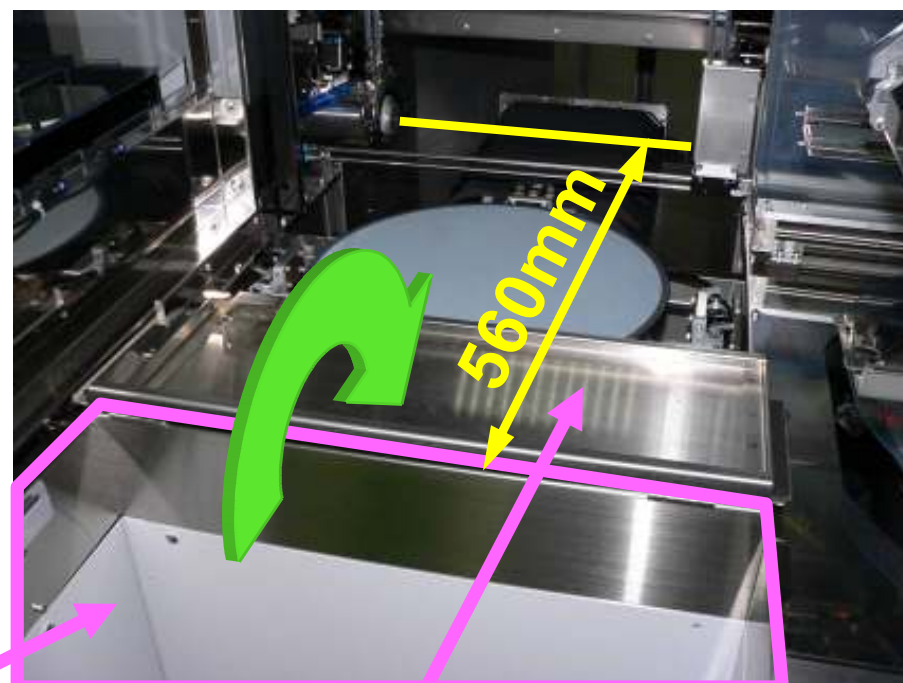
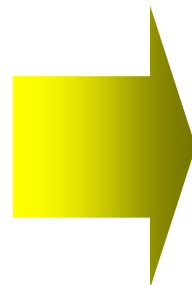


Wide space for maintenance

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Easy Access

Easy access to both spindle



Approach space

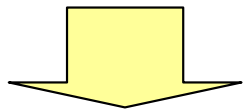
Tool tray

Note) There is an interlock sensor to protect miss operation.

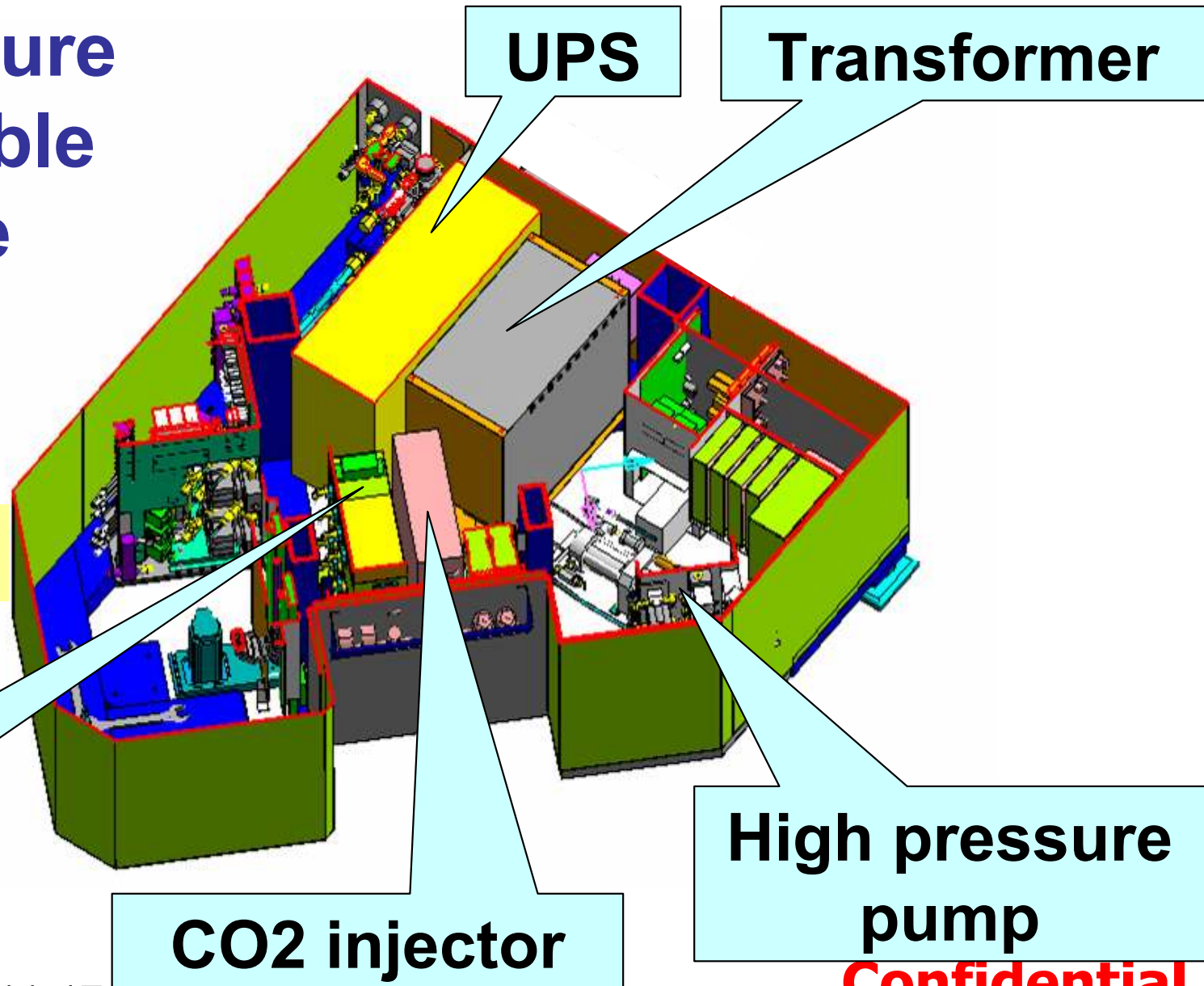


Optional Function

Most of measure options are able to build in the machine.



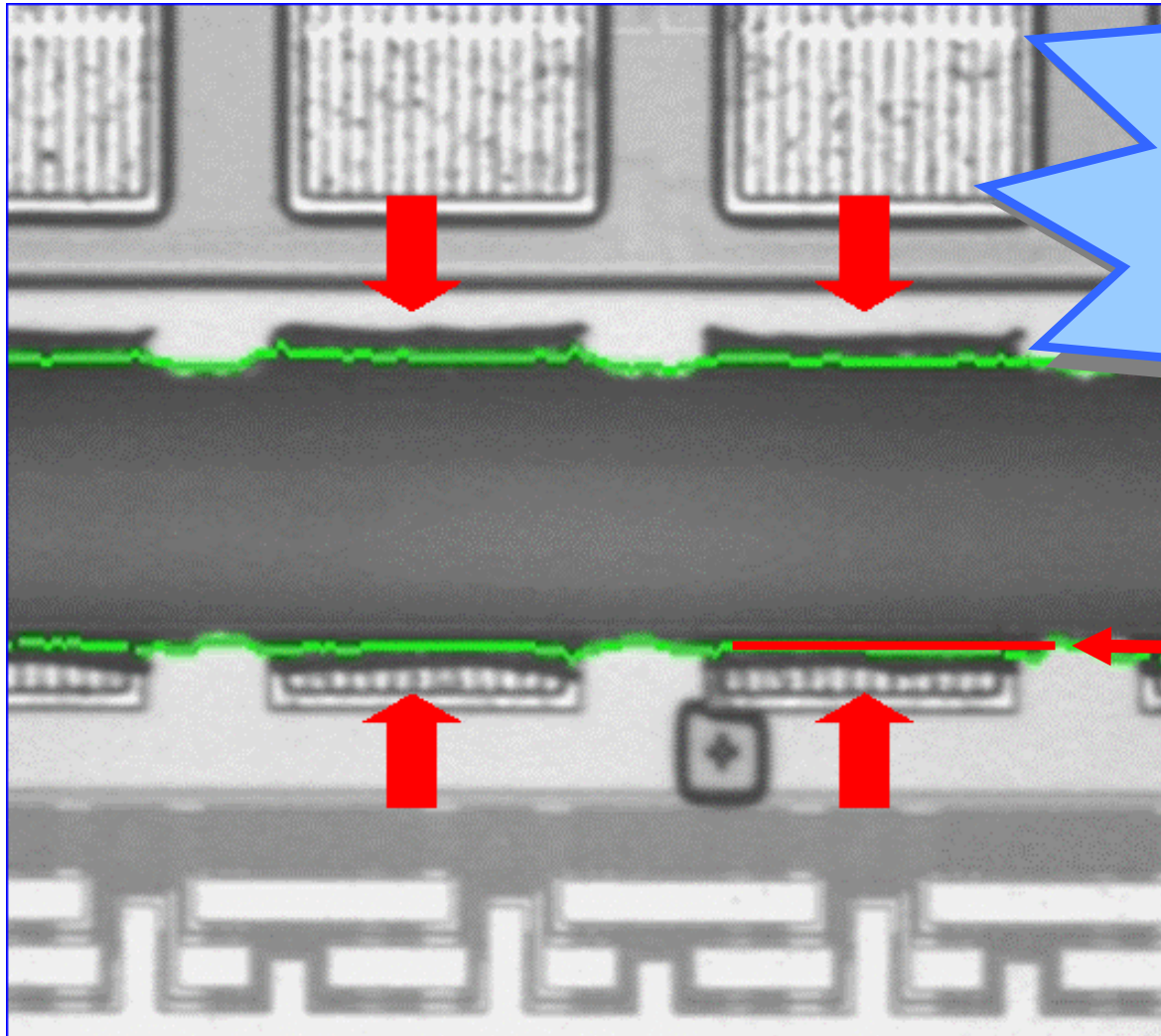
Small footprint





New Kerf Check function

Noise reduction function



**Auto
Chipping
recognition
with noise
canceller.**

TEG peeling

**High
Reliability!!**

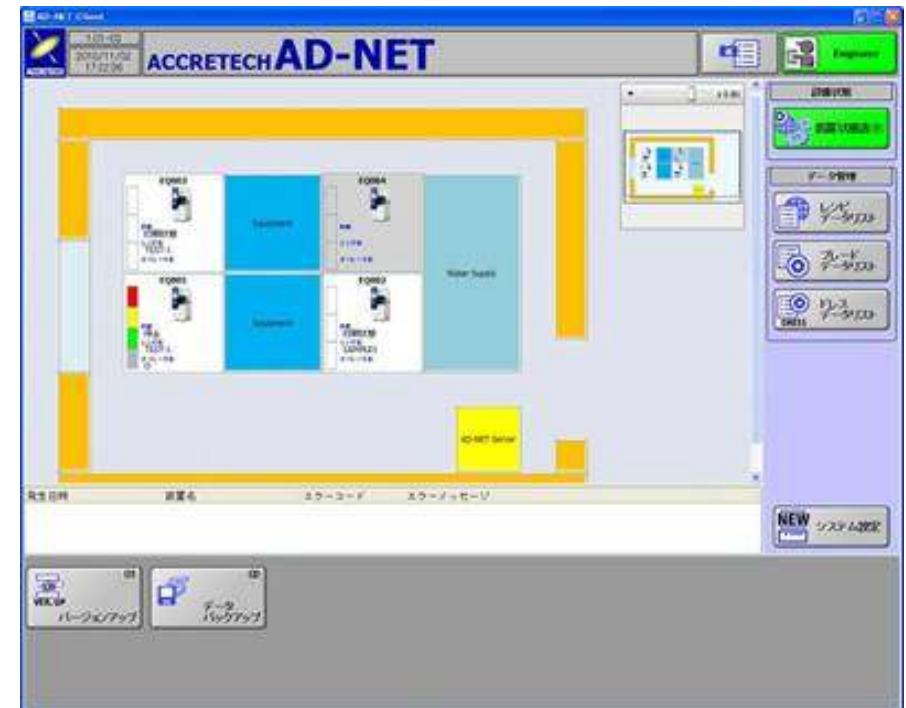
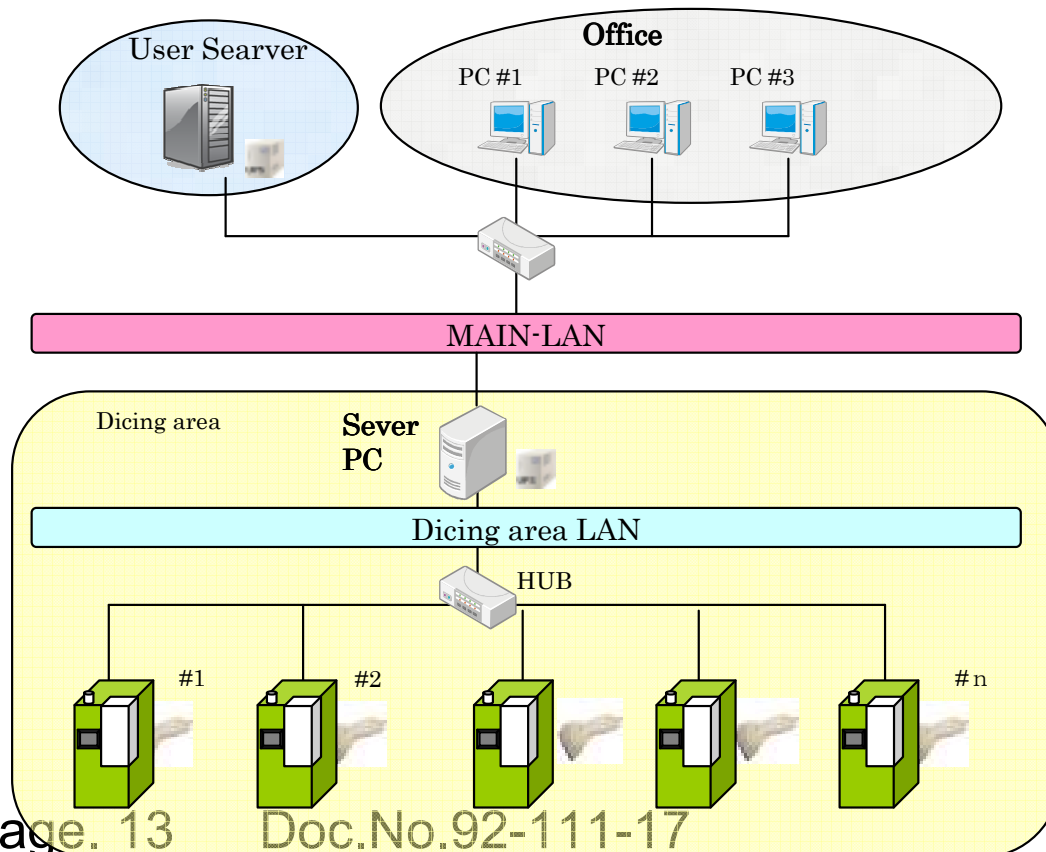


ACCT NETWORK

◆ Network (AD-NET)

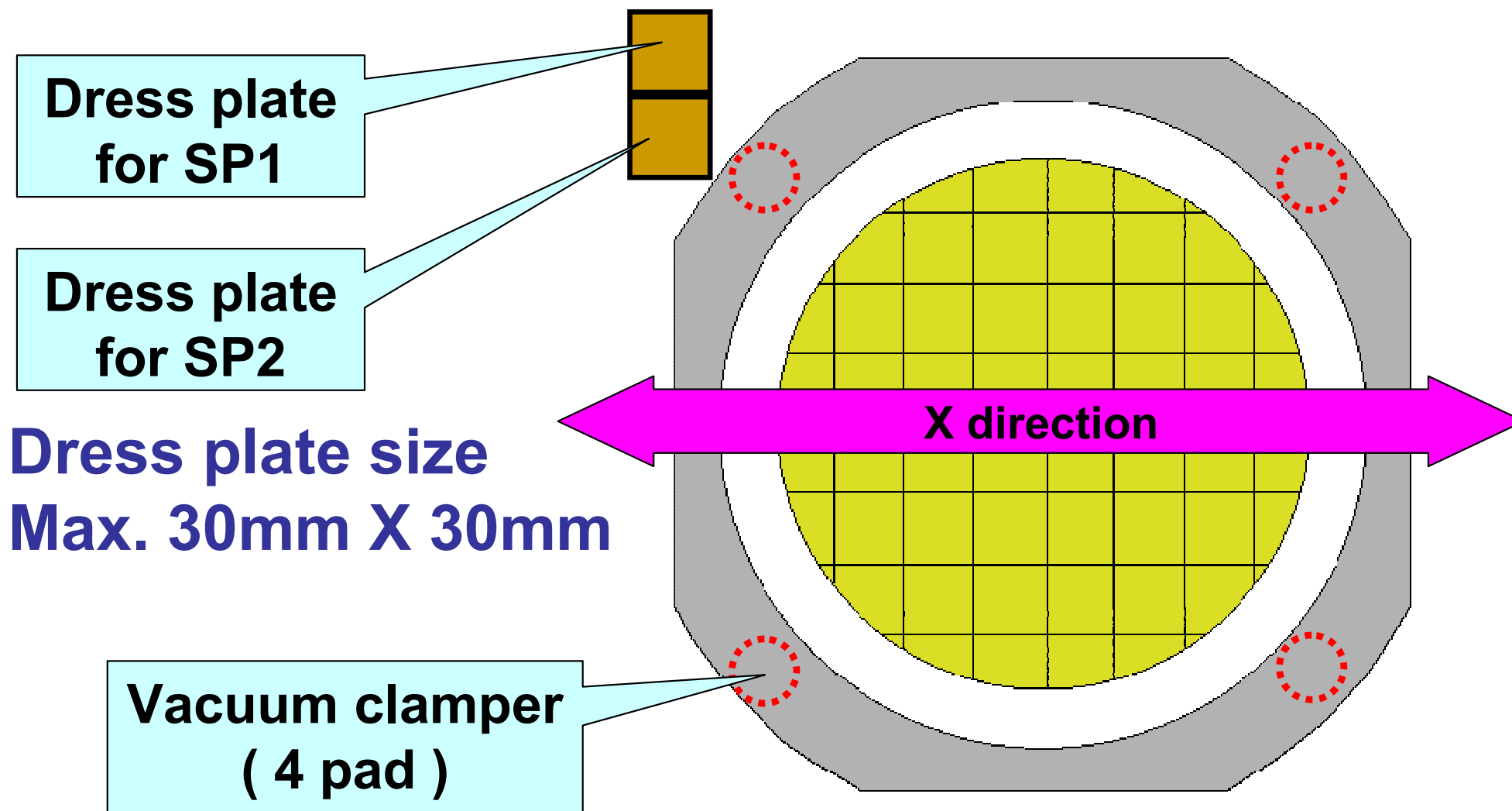
It connects a server PC (the Windows server) and equipment only with the LAN cable and the network can be easily built.

Even if it is in the office, the watch of the equipment and the data management become possible.



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Dress Plate Function





The specification comparison

		AD3000T	DFD6361
Maximum work size		φ 310	φ 300
Maximum compatible frame		12inch(430Φ)	12inch
Spindle	Number of rotations	60,000rpm	60,000rpm
		OP:80,000rpm	OP:80,000rpm
	Maximum blade diameter	φ 60	φ 58
	Pitch among the blades	21mm	24mm
X axis	Cutting stroke	310mm	310mm
	Max speed	1000mm/s	600mm/s
	Driving method	Ball screw + LM guide AC servo	Ball screw + LM guide AC servo
	Option	linear motor + Air guide	—
Y1、Y2 axis	Cutting stroke	310mm	310mm
	Max speed	300mm/s	200mm/s
	Positioning resolution	0.0002mm	0.0001mm
	Straightness	0.002mm/310mm	0.003/310mm
	Driving method	Ball screw + LM guide	Ball screw + LM guide
Z1、Z2 axis	Stroke	34mm	14.7mm
	Repeatability	0.001mm	0.001mm
	Driving method	Ball screw + LM guide	Ball screw + LM guide
θ axis	Rotation range	380°	380°
	Positioning resolution	0.00014°	?
	Driving	Direct drive motor	Direct drive motor



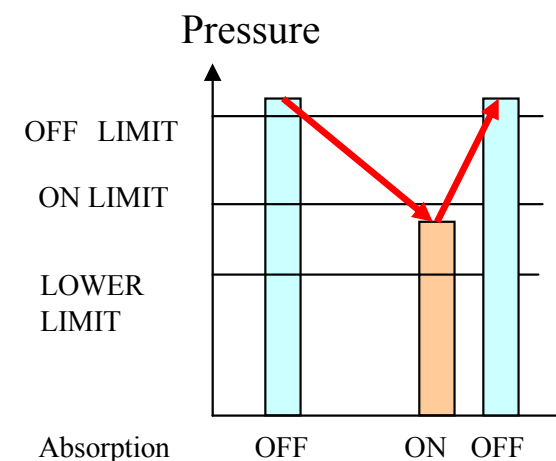
The specification comparison

		AD3000T	DFD6361
Microscope Unit	Structure	STD:1unit(H, L) OP: 2unit(H, L + H)	2unit(H,L + H)
	Lens Shutter	Installed	Installed
Optical Cutter- set unit	Unit Num.	2	2
	Cover	Installed	Installed
Spinner unit	Cleaning method	bubbling /low pressure/ rinse	bubbling /low pressure/ rinse
Handling unit	Method	2ARM/ELEVETOR/FINGER	2ARM/ELEVETOR/FINGER

◆ Air consumption reduction

It suppresses air consumption in doing ON/OFF of Ejector Valve

No	Unit	air consumption [l/min]	
		A-WD-300TX	AD3000T
1	Spindle 1/2	180	110
2	STAGE Vacume	90	20
3	C.T Work Vacume	88	5
4	SPNNER STAGE Vacume	26	26
5	Arm1 Vacume	30	6
6	Arm2 Vacume	1	1
7	Camera blow	30	30
合計		446	198



It reduces 60 % of A-WD-300TX ratio.

Special function for Energy Saving

		AD3000T	DFD6361	Spindle	Spindle coolant	D.I.W.	Motor Power	Remarks
Level-1	Warming up mode	< 2.2kW	2.2kW	ON	ON	ON	ON	Immediately restart to cut
Level-2	Standby mode	< 1.8kW	1.8kW	ON	ON	OFF	ON	Required slightly stabilizing time before cutting
Level-3	Save mode	< 1.0kW	--	OFF	OFF	OFF	ON	Required stabilizing time before cutting
Level-4	Suspend mode	< 0.5kW	--	OFF	OFF	OFF	OFF	Required machine initializing and stabilizing time before cutting

AD3000T has 4 level of energy saving mode and programmable mode setting and waiting time.



Accretech dicing family

A-WD-10B



AD-20T/S



NEW

A-WD-250S



A-WD-300TX



Thank you very much for your attention.

We provide the ultimate technology in the both blade and LASER dicing technology.

PS280



A-WD-200T



ML200



ML300RME

