ATA INC
Assembly, Test & Analysis

I N T E L L I G E N T S O L U T I O N

OACIS®

MULTIPLE AXES SERVO CONTROLLER -TOTAL SOLUTION
다축서보제어 통합솔루션

OACIS is the open architecture servo control system.
It provides one of most intelligent and flexible manufacturing solutions.

OACIS는 개방형 아키텍쳐 서보 제어 시스템으로서, 서보프레스(OACIS-P), 너트러너(OACIS-T) 등과 연동하여 최적의 생산기술 솔루션을 제공합니다.

SERVO PRESS | NUT RUNNER | DAQ & ANALYSIS | SPC

SYSTEM INTEGRATION

OACIS-PT

OACIS-P

OACIS-T

OACIS

2X

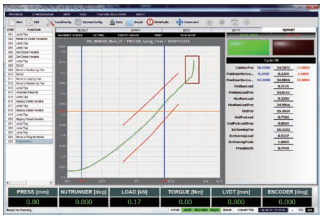
1X

2XC

1XC

EXTERNAL CONTROLLER

OACIScom



EXTERNAL DEVICES

Various Analog Sensors

Barcode Scanner

Angular Encoder

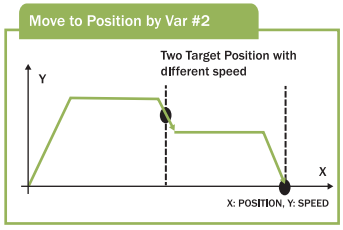
Digital Sensors

SPECIAL FEATURES

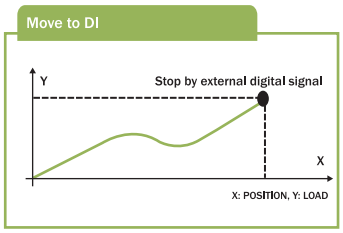
FUNCTIONS

MOVE

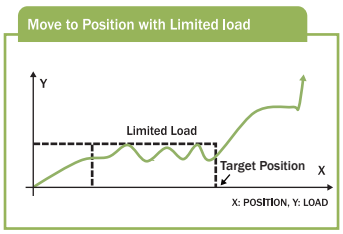
Move to Position by Var #2



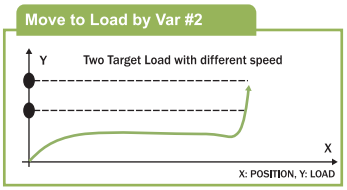
Move to DI



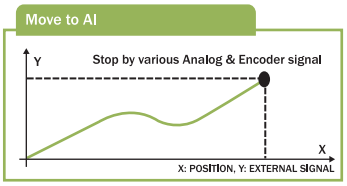
Move to Position with Limited load



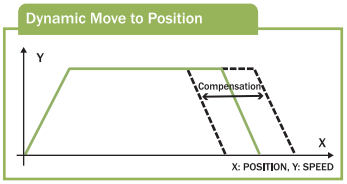
Move to Load by Var #2



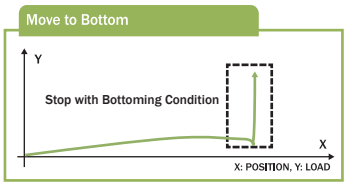
Move to AI



Dynamic Move to Position

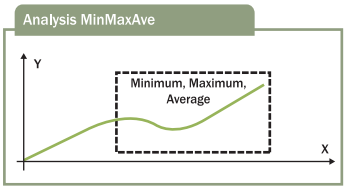


Move to Bottom

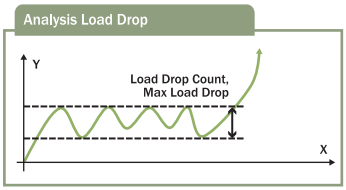


ANALYSIS

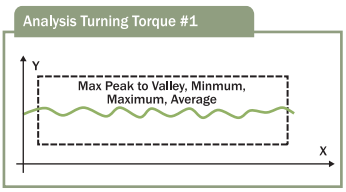
Analysis MinMaxAve



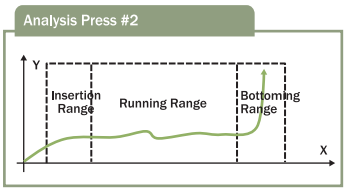
Analysis Load Drop



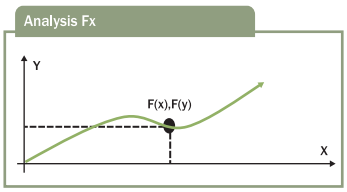
Analysis Turning Torque #1



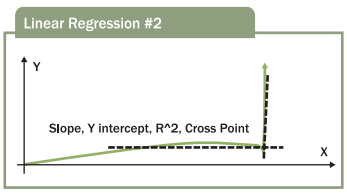
Analysis Press #2



Analysis Fx

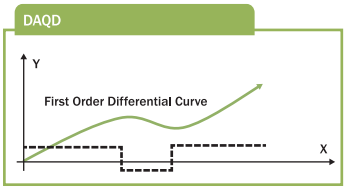


Linear Regression #2

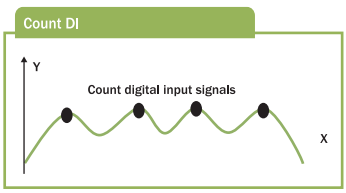


MEASURE

DAQD

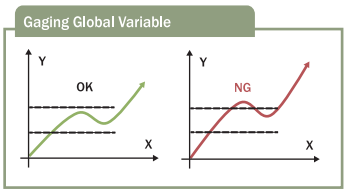


Count DI

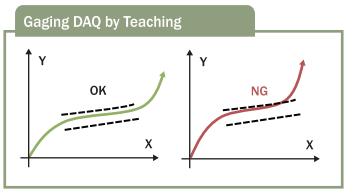


GAUGE

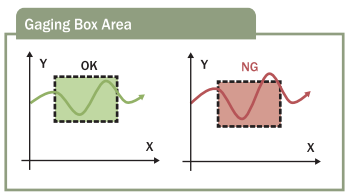
Gaging Global Variable



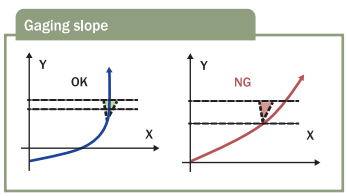
Gaging DAQ by Teaching



Gaging Box Area

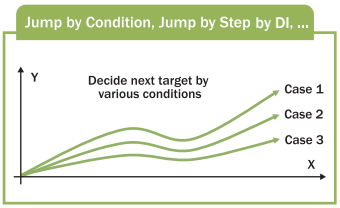


Gaging slope

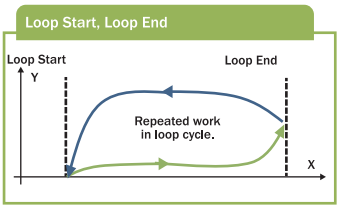


SEQUENCE

Jump by Condition, Jump by Step by DI, ...

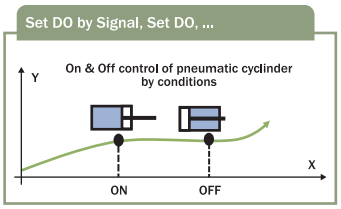


Loop Start, Loop End

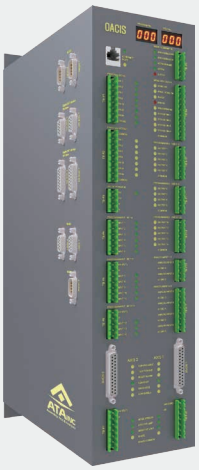


SIGNAL

Set DO by Signal, Set DO, ...

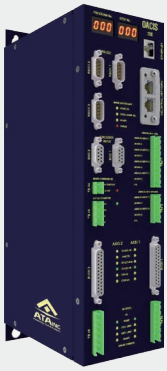


SERVO CONTROLLERS



OACIS-2X

OACIS-1X



OACIS-2XC

OACIS-1XC

DIGITAL INPUTS & OUTPUTS (PNP or NPN) / 2X&1X: Hardwired / 2XC&1XC:via Industrial Network

		OACIS-2X	OACIS-1X	OACIS-2XC	OACIS-1XC
AXES QUANTITY		2	1	2	1
SYSTEM INPUTS		Program Start, Program Stop, Return Home, Reset, E-Stop			
SYSTEM OUTPUTS		Home OK, Program Home OK, Ready, Error, Program End			
STATUS BIN		4 Bit	4 Bit	5 Bit	5 Bit
SET PROGRAM	In	7 Ch	7 Ch	7 Ch	7 Ch
	Out	7 Ch	7 Ch	7 Ch	7 Ch
PROGRAM MABLE	Input	14 Ch	6 Ch	14 Ch	14 Ch
	Output	14 Ch	5 Ch	14 Ch	14 Ch

COMMUNICATION PORTS

EtherNet/IP PROFINET CC-Link		X	X	1 Port	1 Port
ETHERNET		1 Port	1 Port	1 Port	1 Port
RS422		2 Port	X	X	X
RS232		2 Port	2 Port	2 Port	2 Port

SIGNAL INPUTS

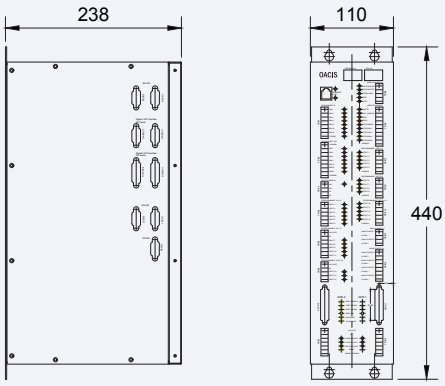
ANALOG INPUT	4-20mA	6 Ch	2 Ch	6 Ch (4 Ch: +/-10V, 2 Ch: Selectable)	X
	+/-10V				2 Ch
ENCODER INPUTS	TTL	2 Ch	1 Ch	X	X
	Line Driver			2 Ch	1 Ch

DATA

PROGRAM STEPS	Max 700 Steps
PROGRAM QUANTITY	Max 120 Programs
DATA STORAGE CAPA	Min 1 Million Cycles

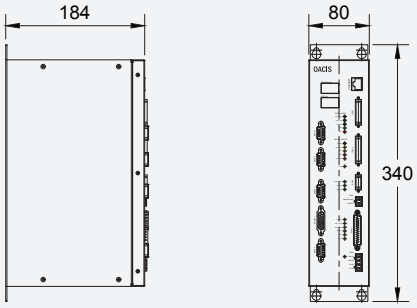
SERVO CONTROLLERS

OACIS-2X



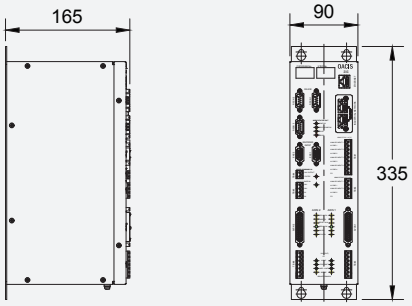
WEIGHT : 6 kg

OACIS-1X



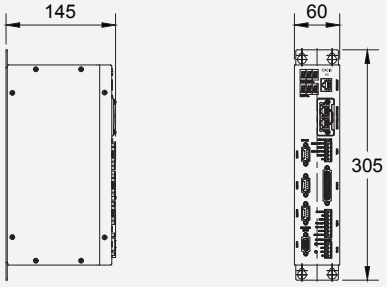
WEIGHT : 3 kg

OACIS-2XC



WEIGHT : 3 kg

OACIS-1XC



WEIGHT : 2 kg

SPECIAL FEATURES

MOVE

- Move to Press
- Dynamic Move to Position
- Move to Bottom
- Move to AI
- Move to DI
- Move to Position with Limited Load

ANALYSIS

- Analysis Press
- Anaysis Turning Torque
- Linear Regression
- Analysis Load Drop
- Find Point

SEQUENCE

- Jump to Step
- Jump by Condition
- Jump by Multi Conditions
- Jump to Step by DI
- Loop Start / End
- Wait to DI

GAGING

- Gaging Global variable
- Gaging AI or Position
- Gaging DAQ by Teaching

MEASURE

- Measure AI Or Position
- DAQ DAQ2, DAQA
- DAQD
- CAPTURE
- Count DI

SIGNAL

- Set Status Binary
- Set Signal Filter
- Set DO by Signal
- Set As Abs Value
- Set AI or Position
- Send Out Data

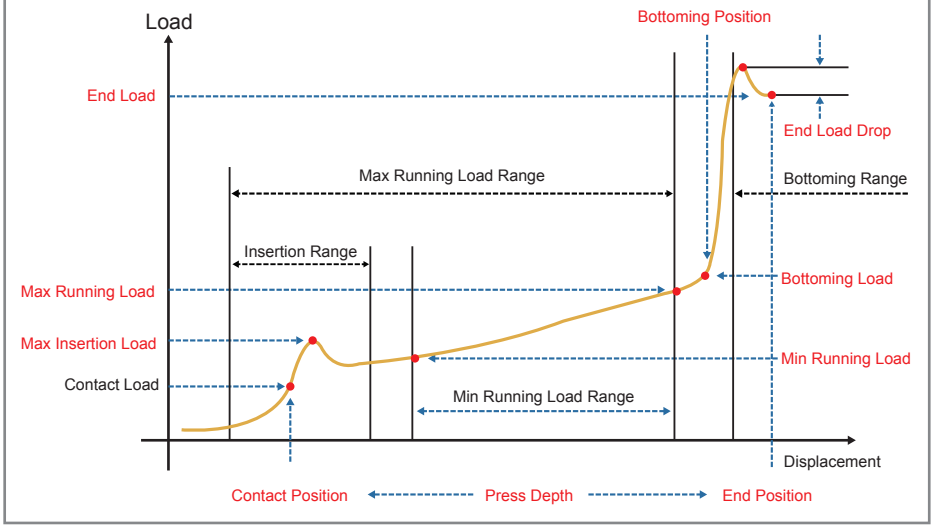
SERVO PRESS

OACIS-P

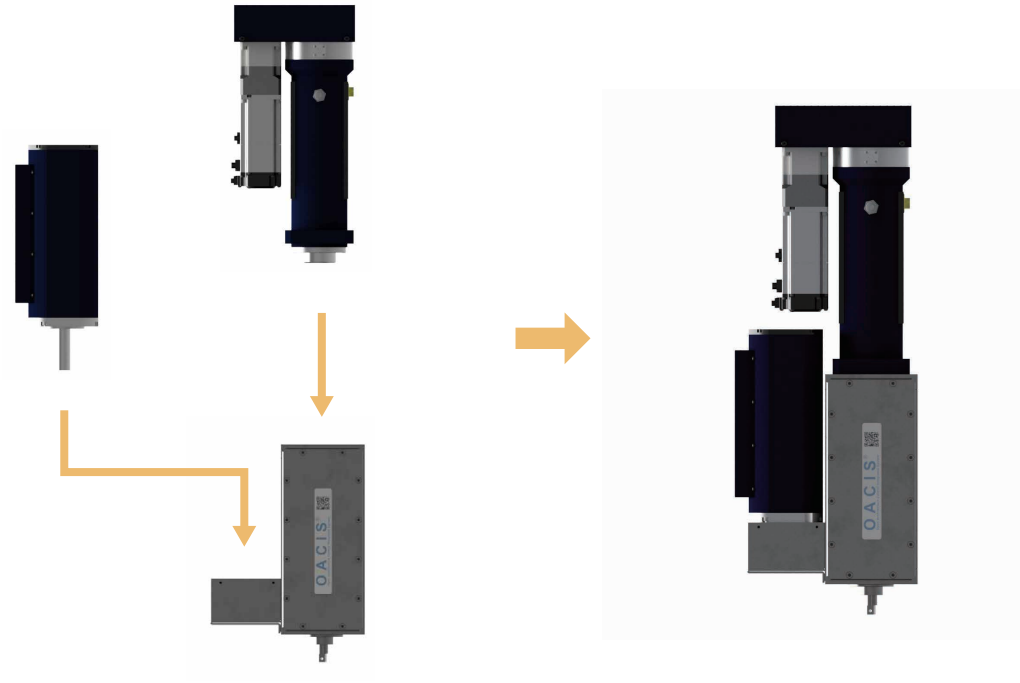
MODEL	MAX LOAD	STROKE	MAX SPEED
OACIS-P001-150-300	1 kN	150 mm	300 mm/s
OACIS-P002-150-300	2 kN	150 mm	300 mm/s
OACIS-P003-300-235	3 kN	300 mm	235 mm/s
OACIS-P005-300-300	5 kN	300 mm	300 mm/s
OACIS-P008-300-235	8 kN	300 mm	235 mm/s
OACIS-P010-300-200	10 kN	300 mm	200 mm/s
OACIS-P015-300-265	15 kN	300 mm	265 mm/s
OACIS-P020-300-200	20 kN	300 mm	200 mm/s
OACIS-P025-300-200	25 kN	300 mm	200 mm/s
OACIS-P030-300-200	30 kN	300 mm	200 mm/s
OACIS-P035-300-180	35 kN	300 mm	180 mm/s
OACIS-P040-300-180	40 kN	300 mm	180 mm/s
OACIS-P050-300-175	50 kN	300 mm	175 mm/s
OACIS-P060-300-140	60 kN	300 mm	140 mm/s
OACIS-P070-300-140	70 kN	300 mm	140 mm/s
OACIS-P080-300-150	80 kN	300 mm	150 mm/s
OACIS-P090-300-150	90 kN	300 mm	150 mm/s
OACIS-P100-300-150	100 kN	300 mm	150 mm/s
OACIS-P150-300-120	150 kN	300 mm	120 mm/s
OACIS-P200-400-125	200 kN	400 mm	125 mm/s
OACIS-P300-400-095	300 kN	400 mm	95 mm/s
OACIS-P400-400-075	400 kN	400 mm	75 mm/s
OACIS-P500-400-075	500 kN	400 mm	75 mm/s

Standard Stroke is 300mm (except for P001, P002)
Customer required stroke is available.
※주문사양 협의 가능. (Stroke 300mm이상, P100이상)

Analysis Press #2

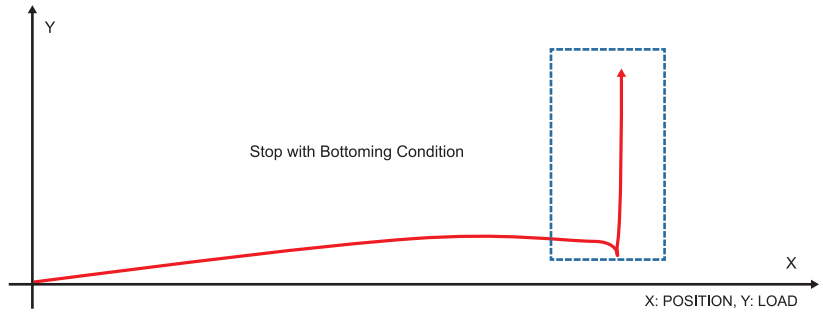


OACIS-PT

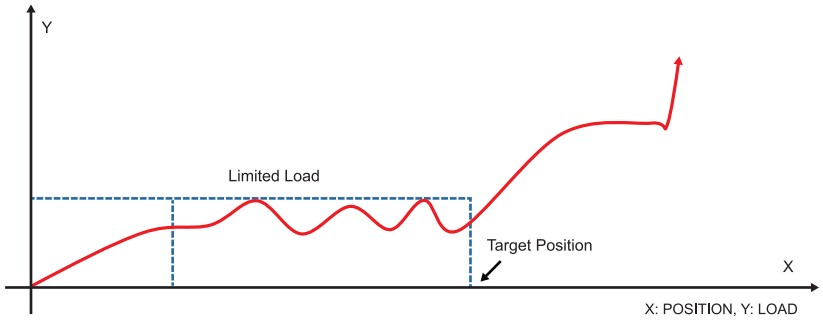


- Combination of Press and Nut Runner
- Axial force and rotational torque are appliable simultaneously
- Ex. OACIS-PT-010-020 : OACIS-P010+OACIS-T020

Move to Bottom



Move to Position with Limited load



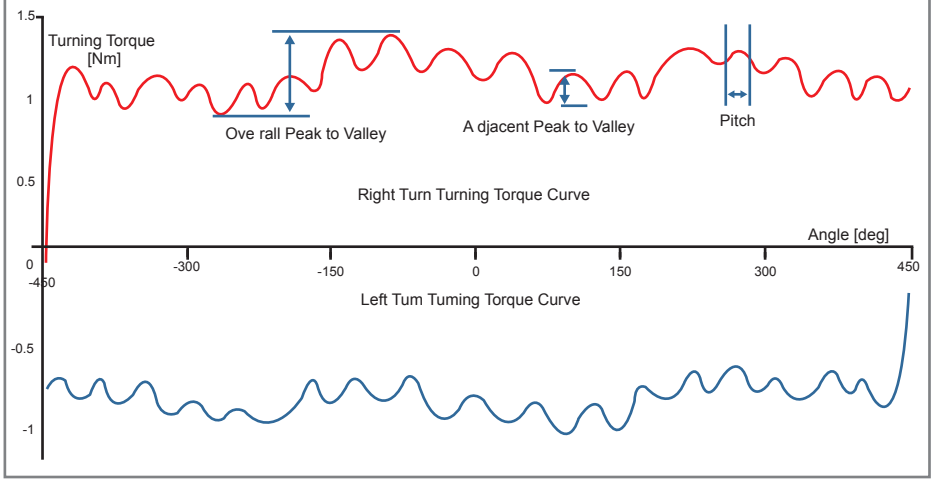
NUT RUNNER

OACIS-T

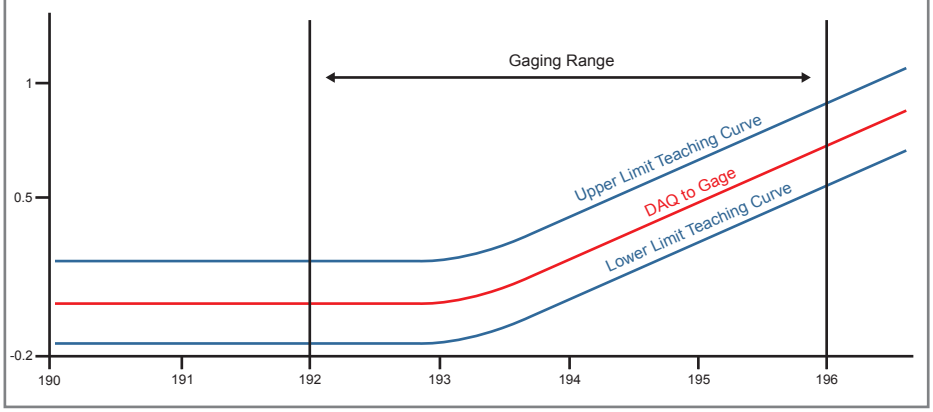
MODEL	MAX TORQUE	MAX SPEED
OACIS-T005-3600	5 Nm	3,600 deg/s
OACIS-T010-3600	10 Nm	3,600 deg/s
OACIS-T020-3600	20 Nm	3,600 deg/s
OACIS-T030-2250	30 Nm	2,250 deg/s
OACIS-T050-3600	50 Nm	3,600 deg/s
OACIS-T080-1800	80 Nm	1,800 deg/s
OACIS-T100-1800	100 Nm	1,800 deg/s

Shaft Type: with Key (default) / without Key (Optional)

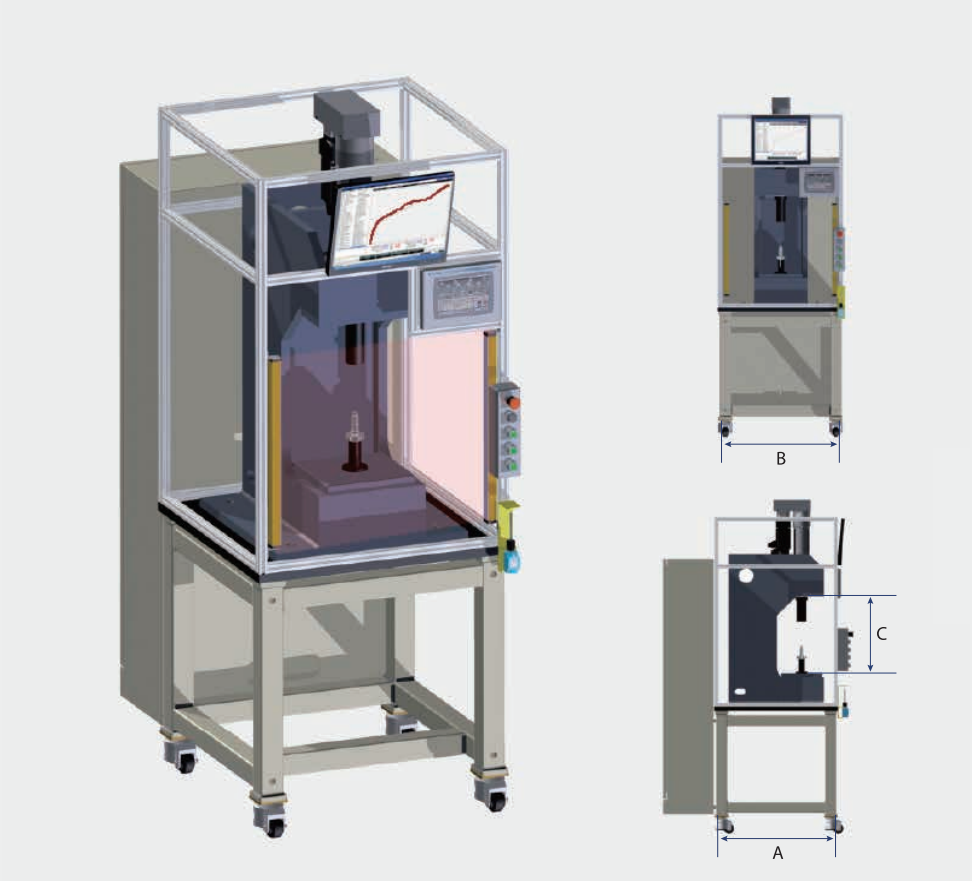
Analysis Turning Torgue #1



Gaging DAQ by Teaching



STANDARD PRESS BENCH



A, B, C : User inputs (mm)

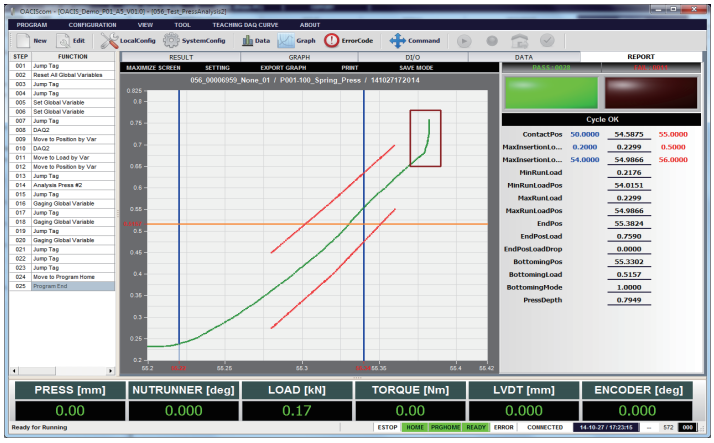
Save time and cost by adding only Jig & Fixture to ATA's Standard Press Bench.
You can select various options.

ATA 표준 Press Bench에 필요한 Jig & Fixture만 올리시면,
시간과 비용을 절약할수 있습니다. 다양한 Option을 필요에 맞게 선택하시면 됩니다.

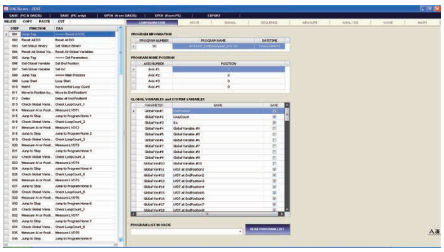
OPTIONS (User inputs)

- Capacity (kN)
- Part Loading Space
- Controls : PLC or OACIS only
- Safety Circuits : None / Light Curtains / Two Hands Btn.
- Human Interface : HMI or Switch Board
- PC

OACIScom | Software to interface with OACIS

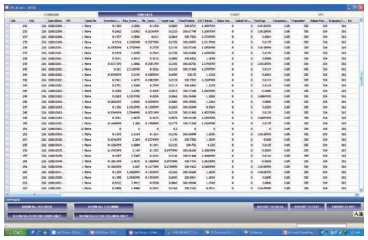


MAIN WINDOWS & REPORT

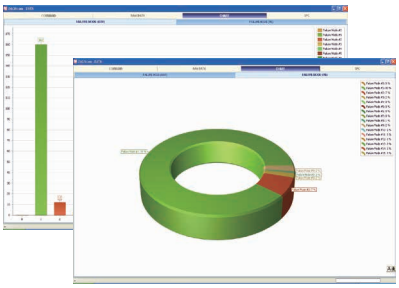


PROGRAM EDIT

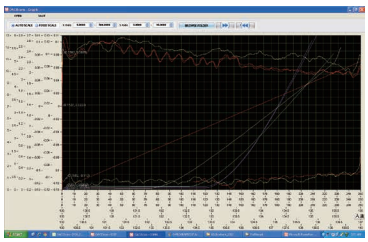
PC COMMAND



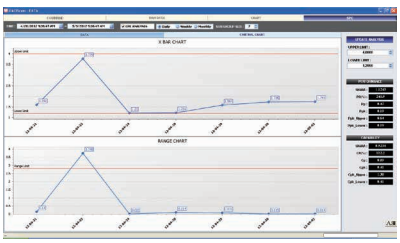
DATA VIEWER



CHART



GRAPH VIEWER



SPC

MAIN FUNCTIONS

MOVE FUNCTION
- Move to Press
- Dynamic Move to Position
- Move to Bottom
- Move to AI
- Move to DI
- Move to Position With Limited load

ANALYSIS FUNCTION
- Analysis Press
- Anaysis Turning Torque
- Linear Regression
- Analysis Load Drop
- Find Point

SEQUENCE FUNCTION
- Jump to Step
- Jump by Condition
- Jump by Multi Conditions
- Jump to Step by DI
- Loop Start / End
- Wait to DI

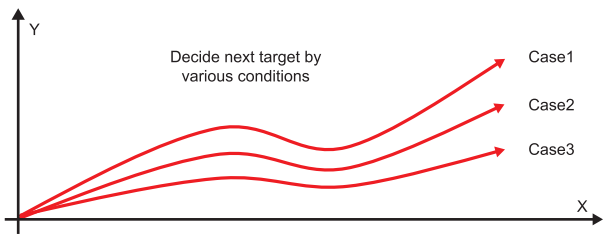
MEASURE FUNCTION
- Measure AI Position
- DAQ, DAQ2, DAQA
- DAQD
- CAPTURE
- Cont DI

GAGING FUNCTION
- Gaging Global variable
- Gaging AI or Position
- Gaging DAQ by Teaching

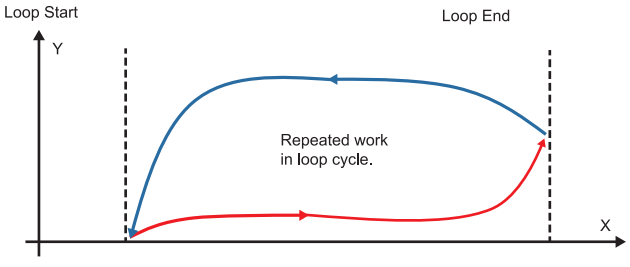
SIGNAL FUNCTION
- Set Status Binary
- Set Signal Filter
- Set DO by Signal
- Set As Abs Value
- Set AI or Position
- Send Out Data

SEQUENCE

Jump by Condition Jump by Step by DI



Loop Start, Loop End



ATA INC
Assembly, Test & Analysis

I N T E L L I G E N T S O L U T I O N

http://www.atainc.com

18, Hosandong-ro 7-gil, Dalseo-gu, Daegu, Korea, 42715
Tel : 82-53-587-1221
Fax : 82-53-587-1227
E-Mail : ata@atainc.com

대구광역시 달서구 호산동로7길 18(호림동2-12) (우)42715
Tel : 82-53-587-1221
Fax : 82-53-587-1227
E-Mail : ata@atainc.com