

***Centralized Vacuum System  
Oil sealed rotary vanes pumps  
GVC***

Pamela Cateland

*Atlas Copco*



## ***COMMITTED TO SUSTAINABLE PRODUCTIVITY***

We stand by our responsibilities towards our customers, towards the environment and the people around us.

We make performance stand the test of time. This is what we call – Sustainable Productivity.

# AGENDA

- Product overview
- Features & Benefits



# TANK MOUNTED SYSTEMS GVC

- Tank mounted vacuum systems with oil sealed rotary vanes built in Tianjin (China) Product Company:
  - Reliability + quality
  - Short lead time
  - High flexibility
  - High efficiency
  - Engineering expertise
  - Competitive price



# TANK MOUNTED SYSTEMS GVC

GVS-A Tank Mounted System

## **GVC 500 – P2 100 BASIC**

Vessel volume	Number of pumps per CVS (1-3)	Pump type	Control
60 liters		GVS-A 25	Basic
160 liters		GVS-A 40	Full Featured
300 liters		GVS-A 65	
500 liters		GVS-A 100	
1000 liters		GVS-A 200	
		GVS-A 300	



# TANK MOUNTED SYSTEMS GVC

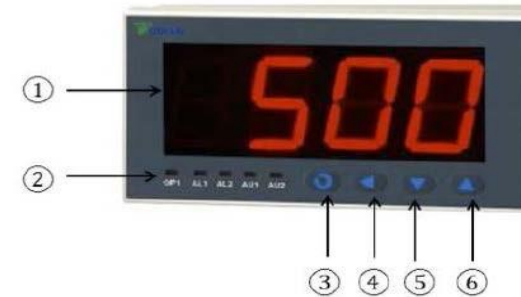


# PRODUCT RANGE

- 2 offers propositions:

- **BASIC**

- 1-2 pumps
- Inlet filters
- Horizontal vacuum vessel
- Electrical cubicle
- Pressure sensor
- Yudian basic controller (regulation on pressure band)



- **FULL FEATURE**

- 2-3 pumps
- Horizontal vacuum vessel
- Electro-pneumatic valves
- Electrical cubicle
- Pressure sensor
- Elektronikon MK5 Graphic : equal wear and limitation of numbers start/stops



# PRODUCT GROUPING

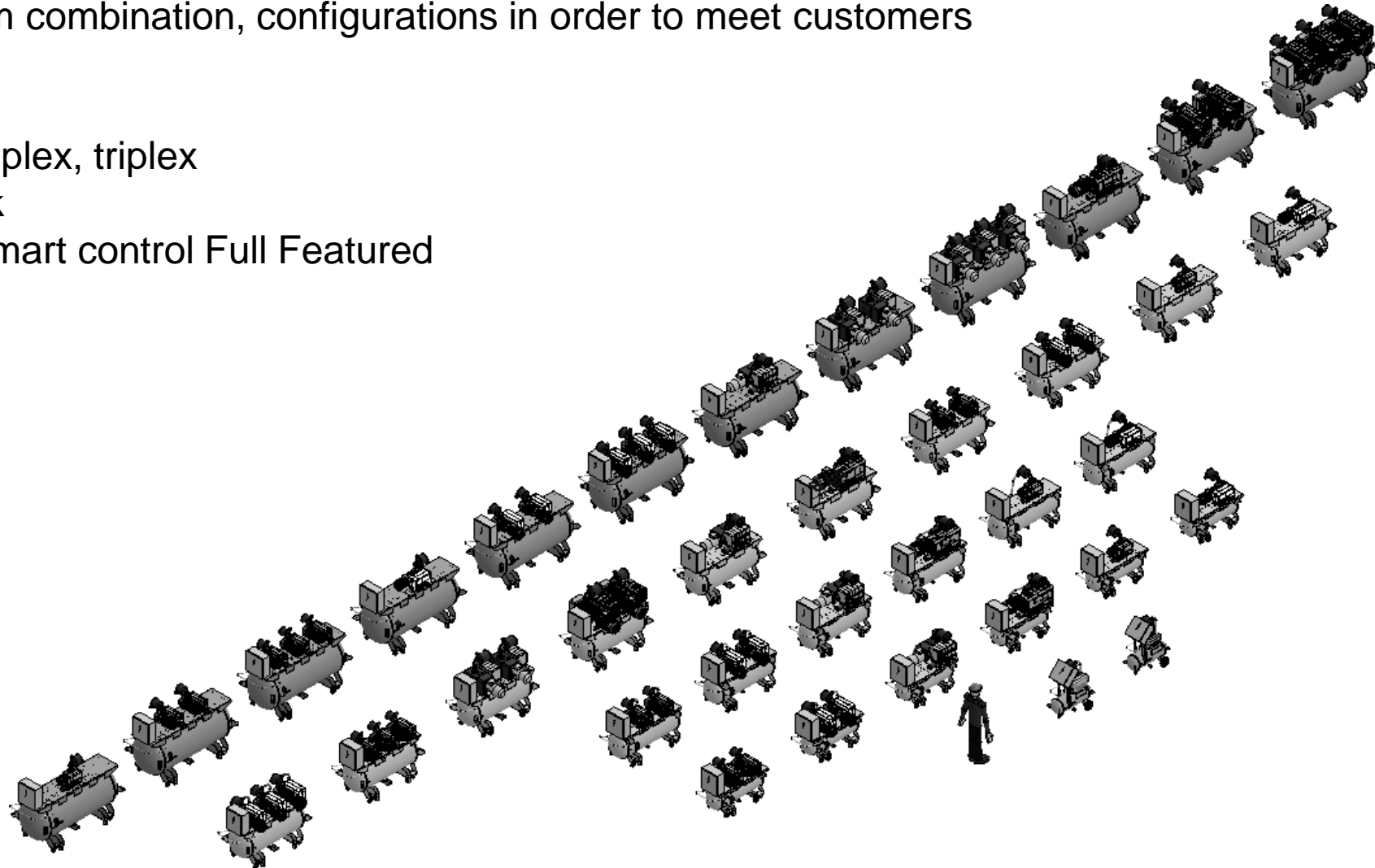
E Appr	IEC	IEC
Voltage	220-230,380-400/220-230,380-460V (World)	220-230,380-400/220-230,380-460V (World)
Phase	3	3
Frequency	50/60Hz	50/60Hz
Controller	Yudian	MK5 Graphic

Model	Pump	Tank	System	BASIC	FULL FEATURED
GVC 60 - P1 - 25	25m3/h	60L	Simplex	504309AC01	NA
GVC 60 - P1 - 40	40m3/h	60L	Simplex	504309AC02	NA
GVC 160 - P1 - 60	60m3/h	160L	Simplex	504310AC01	NA
GVC 300 - P1 - 60	60m3/h	300L	Simplex	504311AC01	NA
GVC 160 - P1 - 100	100m3/h	160L	Simplex	504310AC04	NA
GVC 300 - P1 - 100	100m3/h	300L	Simplex	504311AC04	NA
GVC 500 - P1 - 100	100m3/h	500 L	Simplex	504312AC06	NA
GVC 500 - P1 - 200	200m3/h	500L	Simplex	504312AC11	NA
GVC 1000 - P1 - 200	200m3/h	1000L	Simplex	504313AC11	NA
GVC 500 - P1 - 300	300m3/h	500 L	Simplex	504312AC14	NA
GVC 1000 - P1 - 300	300m3/h	1000 L	Simplex	504313AC16	NA
GVC 160 - P 2 - 60	60m3/h	160L	Duplex	NA	504310AC50
GVC 300 - P 2 - 60	60m3/h	300L	Duplex	NA	504311AC50
GVC 160 - P 2 - 100	100m <sup>3</sup> /h	160L	Duplex	NA	504310AC51
GVC 300 - P 2 - 100	100m <sup>3</sup> /h	300L	Duplex	NA	504311AC51
GVC 500 - P2 - 100	100m3/h	500 L	Duplex	504312AC07	504312AC51
GVC 1000 - P 2 - 100	100m <sup>3</sup> /h	1000L	Duplex	NA	504313AC51
GVC 500 - P2 - 200	200m3/h	500 L	Duplex	504312AC12	504312AC53
GVC 1000 - P2 - 200	200m3/h	1000 L	Duplex	504313AC12	504313AC53
GVC 500 - P2 - 300	300m3/h	500 L	Duplex	504312AC15	504312AC54
GVC 1000 - P2 - 300	300m3/h	1000 L	Duplex	504313AC17	504313AC55
GVC 500 - P 3 - 60	60m3/h	500L	Triplex	NA	504312AC50
GVC 1000 - P 3 - 60	60m3/h	1000L	Triplex	NA	504313AC50
GVC 500 - P3 - 100	100m3/h	500L	Triplex	NA	504312AC52
GVC 1000 - P 3 - 100	100m <sup>3</sup> /h	1000L	Triplex	NA	504313AC52
GVC 1000 - P3 - 200	200m3/h	1000L	Triplex	NA	504313AC54
GVC 1000 - P3 - 300	300m3/h	1000L	Triplex	NA	504313AC56



# MODULAR SOLUTION

- Modular system combination, configurations in order to meet customers expectations:
  - Flow
  - Simple, duplex, triplex
  - Buffer tank
  - Basic or smart control Full Featured



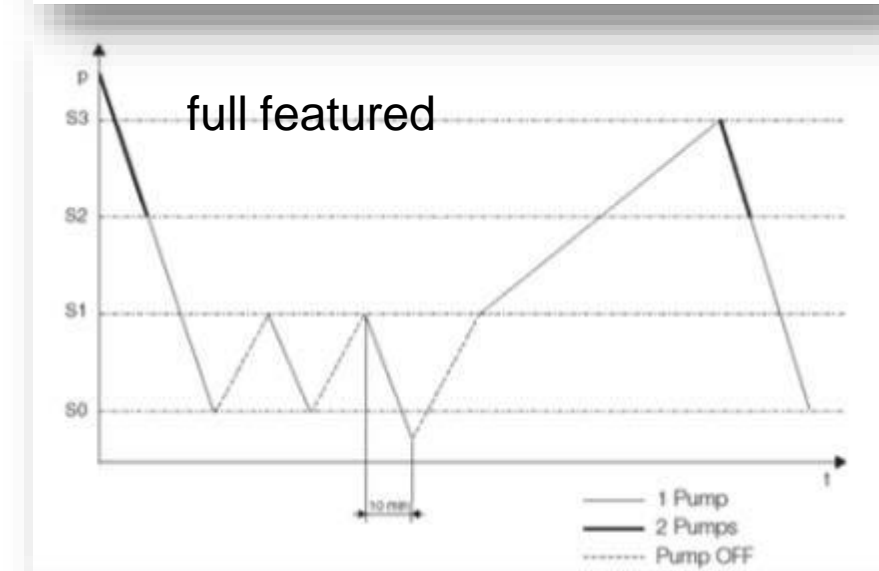
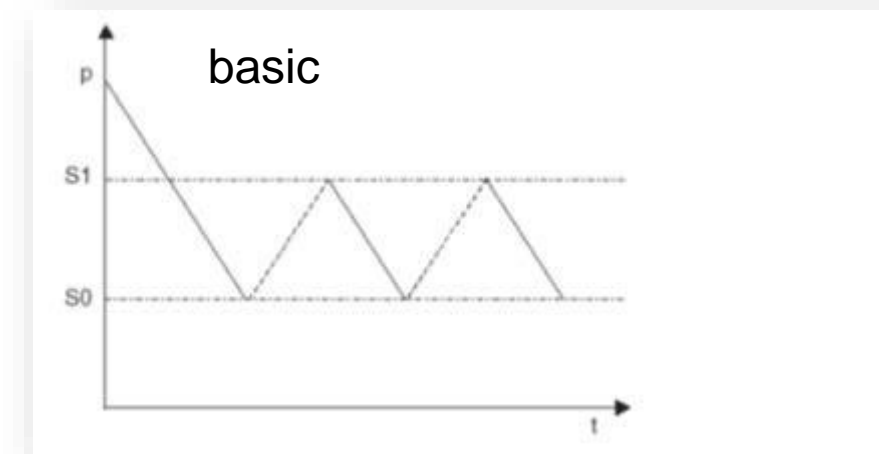
# PRESSURE CONTROL

## BASIC

- switching (1-2) vacuum pumps at once
  - High pressure S1 -> pump(s) on
  - Low pressure S2 -> pump(s) off

## FULL FEATURE

- Pressure band S0-S3, regulation on the principle of the ES system
- controlling of the pumps independently
- master pump / spare pump mode
- number of operating hours shared equally between the pumps
- automatic change to the spare pump in case a pump fails / failure signal output
- automatic start of the spare pump in case the pressure increases up to high pressure (if the current vacuum demand cannot be met by the master pump alone)
- delayed shutdown option which will restrict the number of switching cycles to 6 per hour (10 min running time)



# CUSTOMER'S BENEFITS

- Plug & play installation
- Energy savings thanks to the PI control
- Better environment for the operators – oil emissions and noise removed from the production area
- Reliability - no production stop due to issues on one vacuum pump
- Easy service – each pump can be isolated at any moment



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