

# OMEGA GUARD & CONTROL

## GUARD MONITORING & CONTROL SYSTEM

Flexible control and monitoring of the operational state of your Damas machine inclusive aspiration filters.

The **GUARD system** is monitoring the status of your Damas machines.

The **CONTROL** is an add on to GUARD as a local control system of your Damas machines, which includes frequency controllers, actuators etc. as a complete “plug and play” control unit.



# OMEGA GUARD & CONTROL

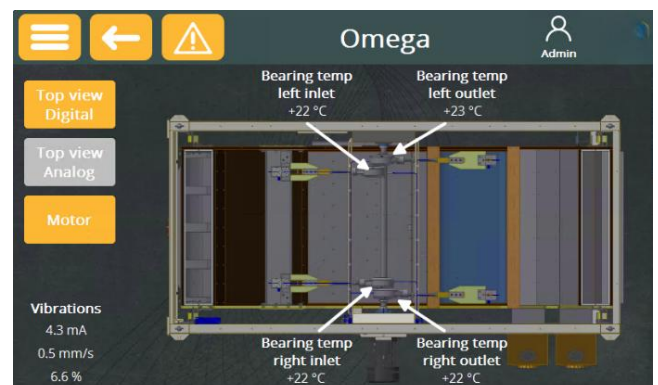
## GUARD Monitoring

GUARD gives easily readable and accurate information of the operating state of the Damas machines in your production line.

With GUARD it is possible to avoid unintended production shutdowns. The system makes it possible to make a plan for repair and maintenance with a view to obtain an efficient production.

GUARD keeps track of all vital parameters of your installation. The system can monitor main bearing temperature in real time and is monitoring the vibration of the machine. It can check whether the wear coatings are intact and whether there are any obstacles to uninterrupted operation – just to mention a few of the possibilities.

GUARD is a fully integrated system which monitors all vital characteristics of a single machine or an entire production line, eliminating the need for constant manual checks.



# OMEGA GUARD & CONTROL

## GUARD Monitoring

GUARD monitors all relevant parameters, such as:

- 🌿 Status of tension rods and springs
- 🌿 Bearing status
- 🌿 Belt supervision
- 🌿 Product discharge
- 🌿 Vibration
- 🌿 Wear of critical parts
- 🌿 Start/operation hour counter
- 🌿 Door opening

In case of a failure, the system will detect this and generate shut-down signals to the main control system.

## Your Direct Benefits

- 🌿 Avoid unintended production shutdowns. The GUARD system makes it possible to make a plan for repair and maintenance with a view to obtain an efficient production.
- 🌿 GUARD keeps track of all vital parameters of your installation and protects your investment.
- 🌿 Easy to see if the machine monitored is working well. The HMI Touchpanel is self-explanatory with "traffic light" colors: green / yellow / red status.
- 🌿 GUARD is a fully integrated system which monitors all vital characteristics of a single machine or an entire production line, eliminating the need for constant manual checks.

Sensors	Checking
Vibration Sensor	The vibration level
Temperature Sensors	Wear of bearings
Wear Sensors	Wear of critical parts in contact with product
Burst Sensors	Critical parts that may break
Speed Controllers	Motors and belts
Level Indicators	Overfilling
Door Switch	If doors are open / closed

# OMEGA GUARD & CONTROL

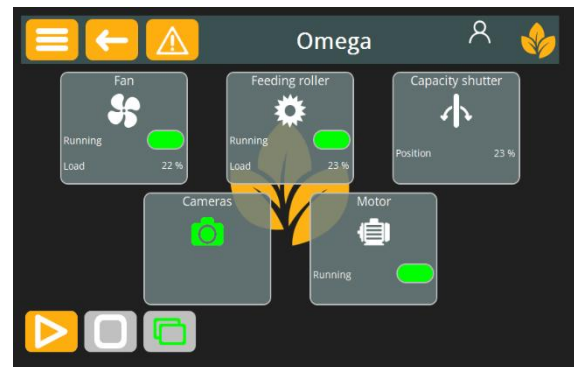
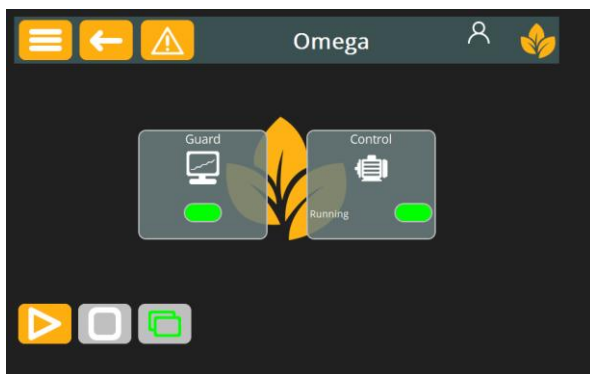
## GUARD & CONTROL

CONTROL is a local control system monitoring and controlling all vital parts of your Damas machine and at the same time give the possibility to control main functions which is important for trouble free and easy operation of your Damas machine.

The CONTROL is an “plug and play” system, which makes the system perfect to use in all situations, especially for plant extensions or machines replacements. But it could be a use full and economically efficient solution even for a green field plant.

## Your Direct Benefits

- ✿ Easy installation of new machines with Damas “plug & play” CONTROL system solution.
- ✿ CONTROL includes all necessary hardware and software to run you Damas machines from a local touch panel.
- ✿ Flexible plant upgrade including a complete control system for a single or several machines.
- ✿ Makes upgrades easy with simple connection / exchange of information to the main plant control.



## OMEGA GUARD & CONTROL

Functionality and Options	Adjusting and Benefits
Build in aspiration fan on R-module	Adjusting aspiration level
Feeding roller	Fine adjusting of capacity
Capacity shutter	Adjusting of capacity shutter
Open/close capacity shutter	Memory function for easy start/stop of plant
Cameras	Possibility to look at the screen layers
Cleaning procedure	Run cleaning procedure of the aspiration module