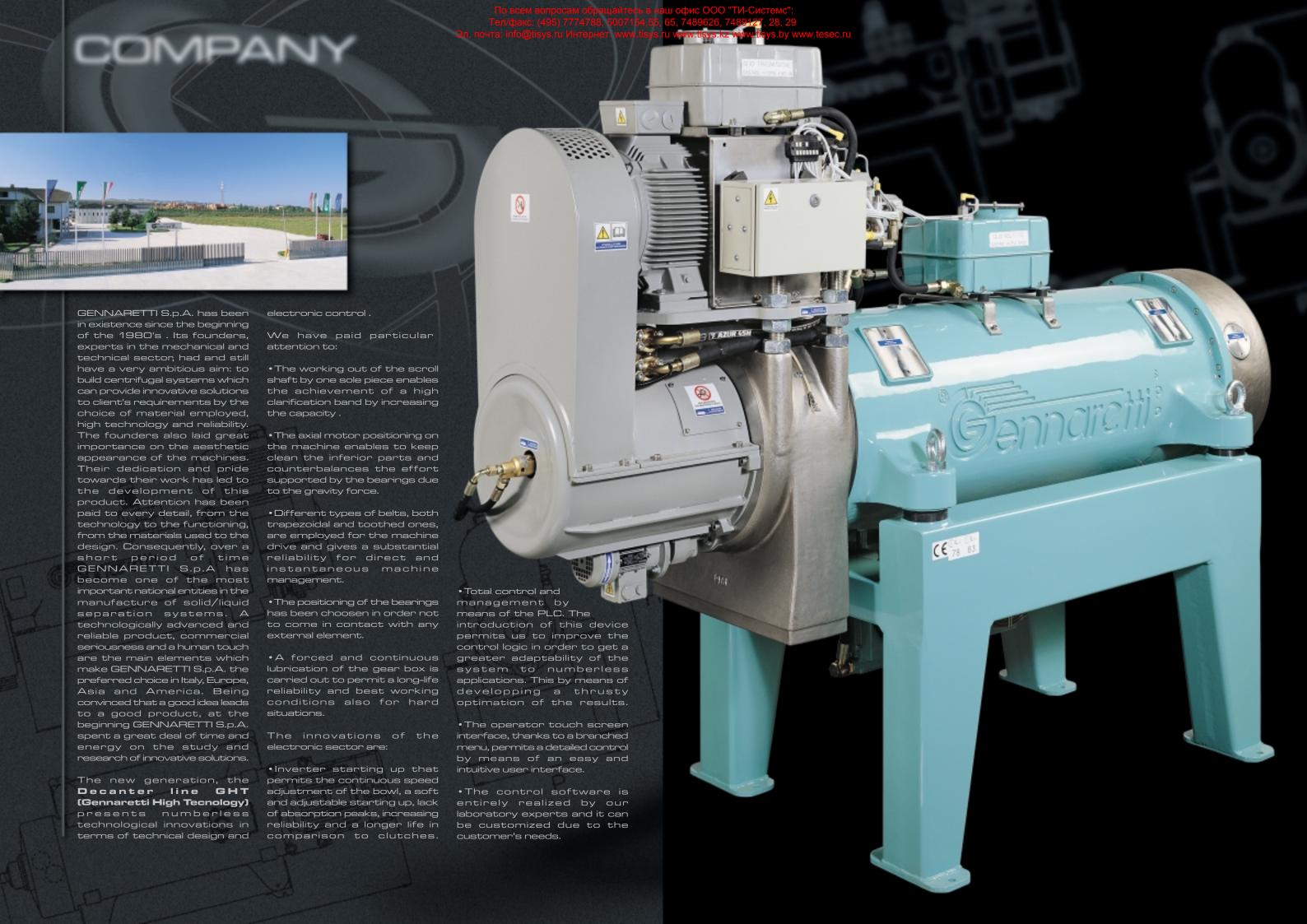




По всем вопросам обращайтесь в на Тел/факс: (495) 7774788, 5007154,55, Эл. почта: info@tisys.ru Интернет: www.tisys.r We are glad to introduce to you our production of Centrifugal Systems GHT.

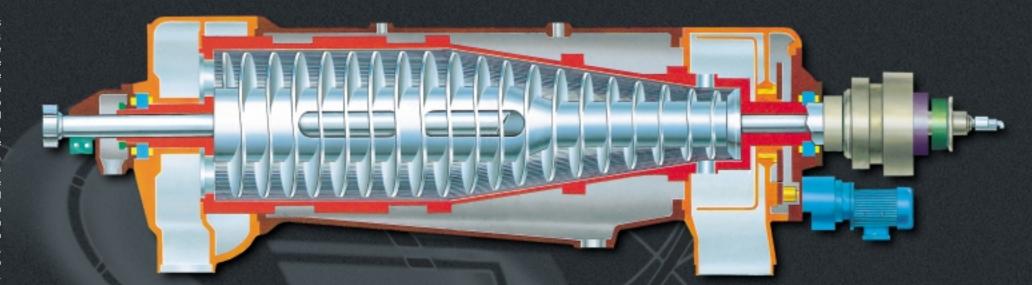




decanting, particles left in a to deposit themselves on the tank floor due to the force of gravity. In some cases (biological fluids) the time taken for to long and some particles take several years for sedimentation. If the same container is rotated to an artificial force of gravity, with a proportional distance between the rotation centre speed. By means of centrifugation, the force of gravity is higher than that of terrestrial gravity and therefore accelerates the sedimentation process. The principle behind the working of the of centrifuge is based on the specific weight difference between the substances to be separated. The separation takes place in the internal part of a cylindrical-conical container, which is called the drum and

PRINCIPLE

During the process of which rotates at high speeds. It is driven by an electrical motor, solution for a period of time tend in order to increase by infinite times the force of gravity. The product is supplied via the feeding tube and the drum rotation deposits the solid on to spontaneous sedimentation is its internal walls, while the liquid forms a ring inside. The thickness is determined by the adjustment of the liquid outlet, in a circle, the solution is subject from which the clarified liquid is released. The function of the scroll is to remove the solid product, which is then and the square of rotation discharged by means of an evacuation system. In order to separate certain types of solid, it's necessary to use polymer to make the separation easier.



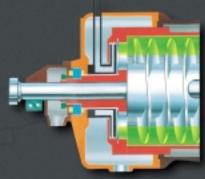
Centripetal pump.

In order to avoid oxigenation in the outllet to get a pressure and oxidation of the liquid outlet phase it is undispensable for some processing lines the use of centripetal pumps.

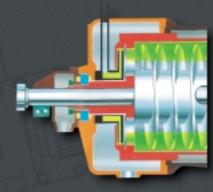
They form a counter-pressure

There are different control systems for the centripetal pumps.

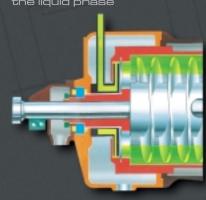
the internal part of the bowl



Input of the liquid phase in the centripetal pump



the liquid phase



Product inlet by means of the feeding device in machine's

Solid-liquid separation phase in bowl's inner





FOOD & JUICES In this sector the decanters are utilized for the processing of agricultural products such as tomatoes, lemons, orange, kiwi and mangos. These machines are used when the separation of the pulp from the juice is needed, or in fruit juice preparation, when a better clarification of the juice is required. Lemon working Tomatoe working Carot working processing



MINING

The wide experience gained construction quality is given by through the development of centrifugal decanters enabled us to apply those systems to of inox castings and the careful the treatment of quarry choice of components, giving used for the treatment of sludges. This application field long-life reliability to the machine requires in particular an efficient that is submitted to hard and method of an automatic stressful working conditions. separation process. The After a long period of studies minimum overall dimensions with Gennaretti spa manufactures and research, we are able to no need of personnel for high technological centrifuges offer now a long and unique adjustment and/or control. The (GHT) for sludge dewatering through the solid/liquid years. This experience was application of our centrifuges in separation process, or more gained on the plants where our different types of plants with specifically, through the specific centrifuges are used with static or dynamic clarifiers or weight difference. The

the machine structure made of cast iron, the discharge chutes working experience of several

further to propose centrifuges with excellent results and extreme less wear than other systems which are normally quarry sludges. All in all, our plants are able to realize the high technology level allows the satisfaction and it enables us alternatively, without it.



Washing plant of inerts



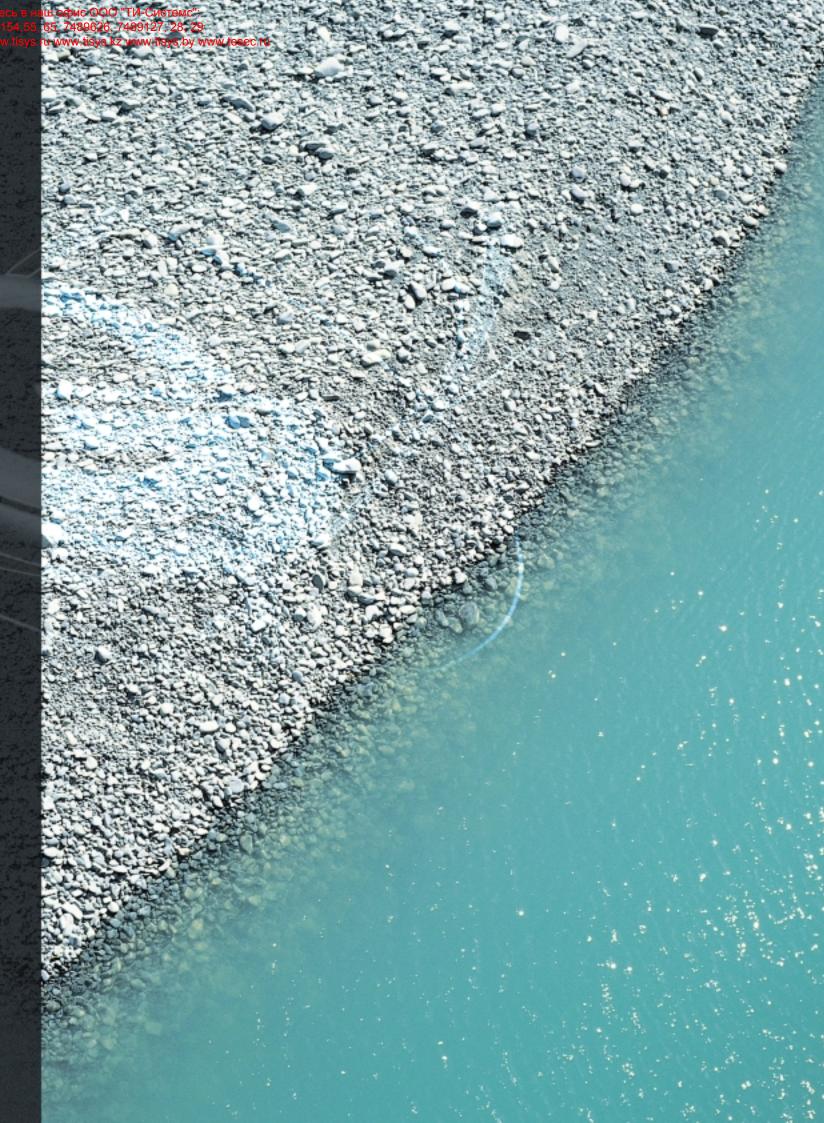
Collecting of washing water



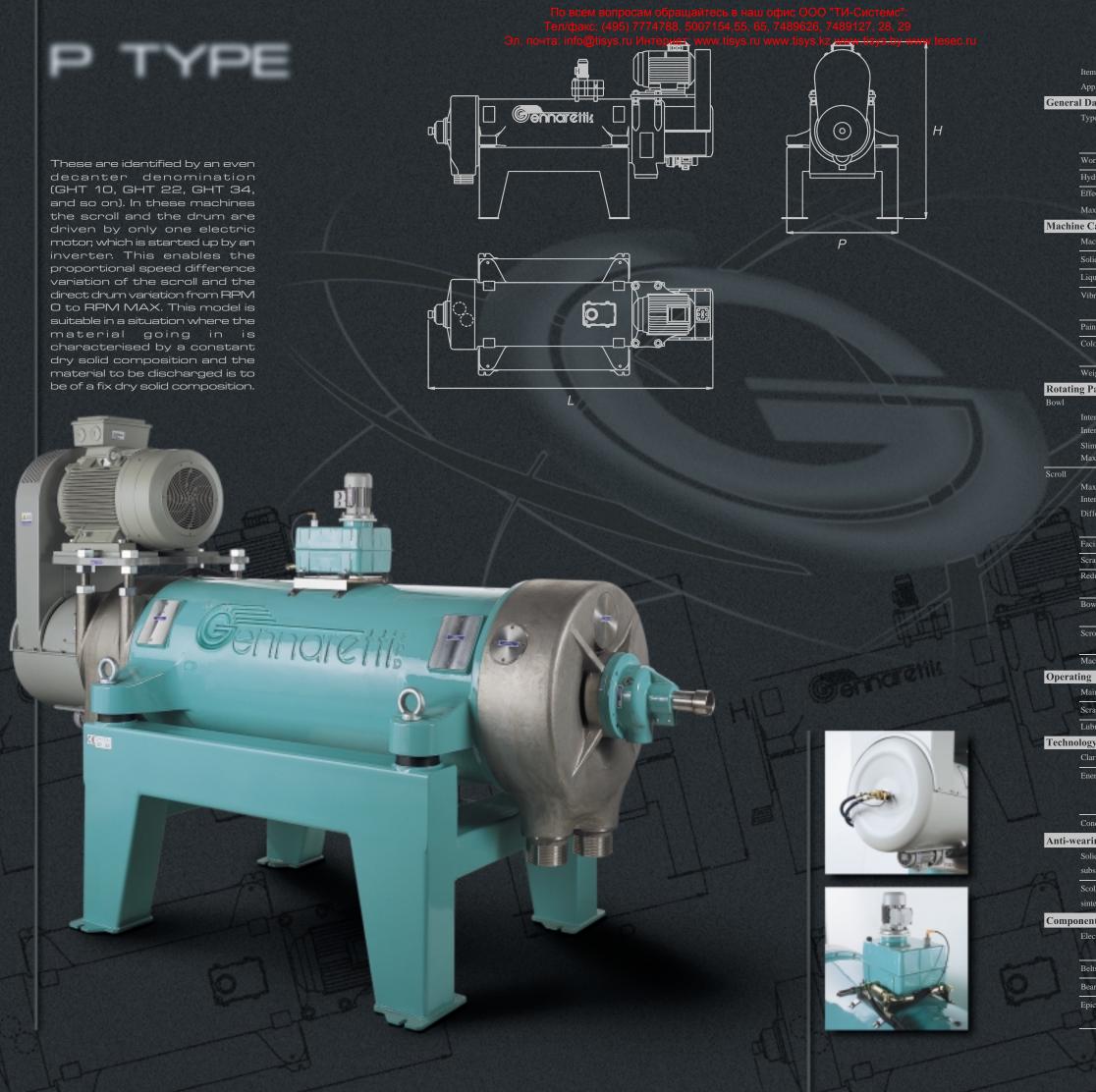
View of the plant's solid output











Decanter GHT Proportional Type

80° Standard - 150° Optional

High resistant AISI

General Data		
Туре	Dehidratation sludges Pre-thickening	
Working principle	Counter-current	
Hydraulic capacity [mc/h]	from 6 to 200	
Effective canacity [mc/h]	Depends on products	

_		
Ma	chine	· Casing

ne Casing	
Machine frame	Cast iron casting
Solid product outlet	AISI casting
Liquid product outlet	AISI casting
Vibration dumpers	Integrated to the casing
	near baricentre
Painting	Plain furnace
Color	Casing and support in green
	motor and protection cover in RAL 7030
Weight [kg]	from 550 to 15100

Rotating Parts

owl		High resistant AISI	
	Internal diameter [mm]		
	Internal lenght [mm]		
	Slimming rate [l/d]		

Internal lenght [mm]
Differential speed [rpm]

Facing ledges	Inox steel AISI 316 L
Scraper	Inox steel with gear drive
Reduction gear	Epicycloidal Lubrication in continuous
Bowl drive	Trapezoidal belt with electronic rotation control
Scroll drive	Trapezoidal belt with electronic rotation control

Machine will be supplied with two drive systems, one installed and one in stock

Main motor [kw]	nom 7,5 to 152 inverter starting up
Scraper motor [kw]	from 0,18 to 0,75
Lubrication reducer pump [kw]	from 0,18 to 0,37

Technology

Clarification	Wide band
Energy	Low energy consumption
	due to recovery
	of mechanical force conversion
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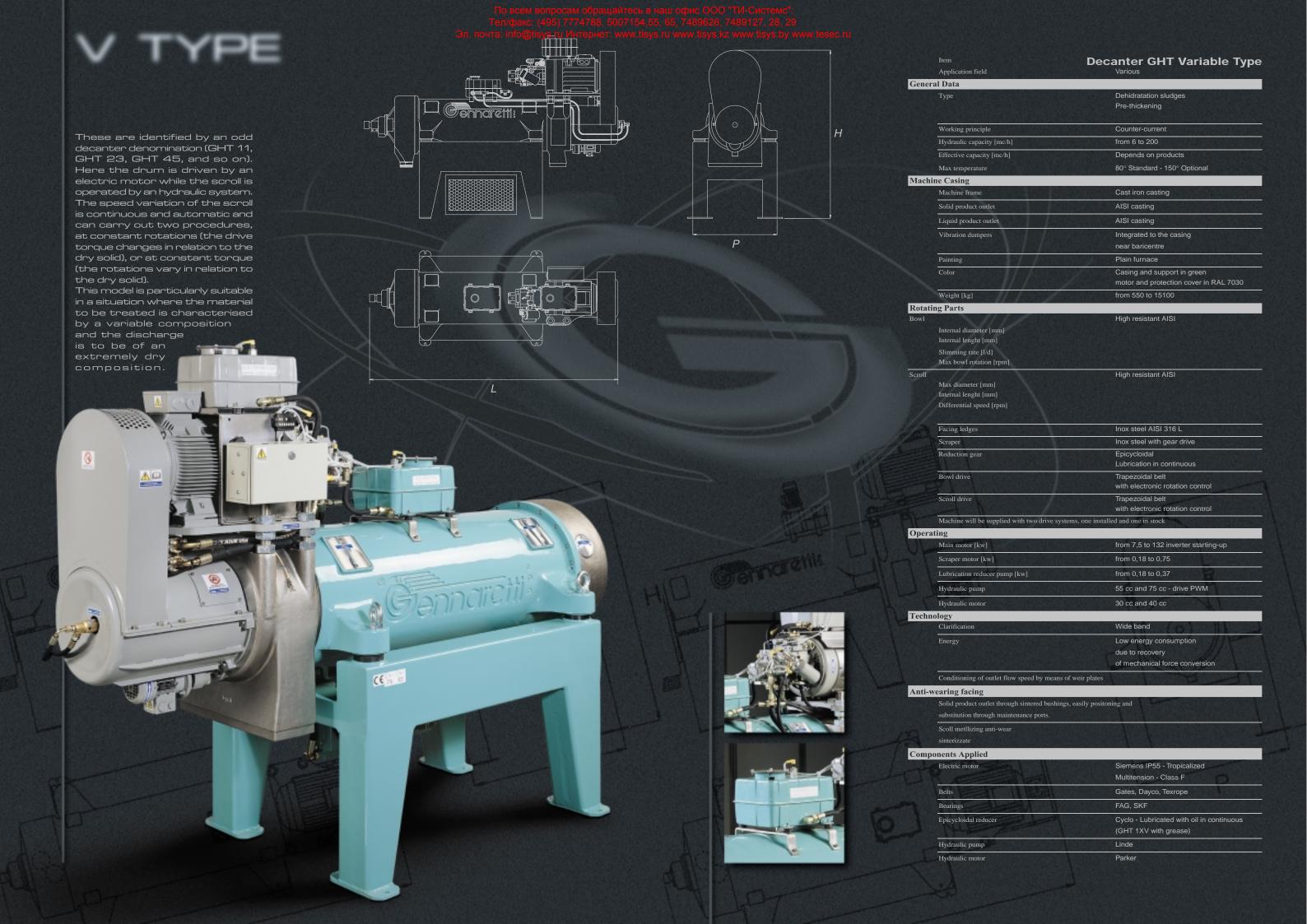
Anti-wearing facing

Solid product outlet through sintered bushings, easily positoning and

Scoll metllizing anti-wear

Components Applied

Electric motor	Siemens IP55 - Tropicalized Multitension - Class F
Belts	Gates, Dayco, Texrope
Bearings	FAG, SKF
Epicycloidal reducer	Cyclo - Lubricated with oil in continuous (GHT 1XP with grease)



Operator panel T 100

PANELS

Main characteristics

- Control logic is integrated on PLC;
- Possibility to be SLAVE of the net Profibus or Ethernet for the remote control and comand of the centrifuge;
- Inverter management (main motor and eventually some pumps) with analogue signals;
- Operator interface monochromatic touch-screen with 3 colours back-lighting and 160x64 resolution pixel;
- Possibility of periodic report prints;
- MODEM connection for telematic control and assistance:















Operator panel TS 6

Main characteristics

- Control logic is integrated on PLC
- Possibility to be SLAVE of the net Profibus or Ethernet for the remote control and comand of the centrifuge
- Inverter management (main motor and eventually some pumps) via Profibus ;
- Data acquisition of the machine via Profibus (to simplify at most the wiring between the machine and the electric control panel);
- Extensive connection possibility of the plant accessories (e.g. flow meter or level meter, temperature etc.) both directly on the PLC control and as Profibus nodes;
- Operator interface touch-screen 16 colours , 6 inches and 320x240 resolution pixel;
- Possibility of periodic report print;
- MODEM connection for telematic control and assistance;















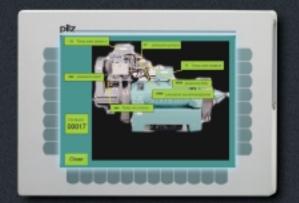
Operator Panel TS 14

Main characteristics

- Control logic with SOFT-PLC technology integrated on an industrial PC Touch-screen, 14 inches with 800x600 resolution pixel, and the operative system WINDOWS 2000 or WINDOWS NT;
- ☐ Multioperator interface with SCADA supervision;
- Possibilità di essere SLAVE di reti Profibus o Ethernet per il controllo ed il comando in remoto della centrifuga;
- Possibilità di connettere il PC ad una rete Ethernet TCP-IP già presente nell'impianto/azienda e di controllare e comandare la macchina tramite un Browser Internet comune;
- Gestione degli Inverters (motore principale più eventuali pompe) via Profibus ;
- Acquisizione dei segnali macchina via Profibus (per semplificare al massimo il cablaggio tra macchina e quadro di controllo);
- Ampia possibilità di collegamento dei vari accessori di impianto (es. misuratori di portata o livello, temperature ecc..) sia direttamente sul PLC di controllo sia come Nodi Profibus;
- Possibilità di files di logging delle variabili impianto personalizzati, di condivisione delle tabelle dati e interfacciamento tra supervisione e applicativi Microsoft Office;
- □ Stampa di report periodici personalizzabili su stampante locale o remota in rete;
- Aggiornamenti software e assistenza via Modem o via Internet;







По всем вопросам обращайтесь в наш офис ООО "ТИ-Системс": Тел/факс: (495) 7774788, 5007154,55, 65, 7489626, 7489127, 28, 29 Эл. почта: info@tisys.ru Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.r

Some of our worldwide installations

