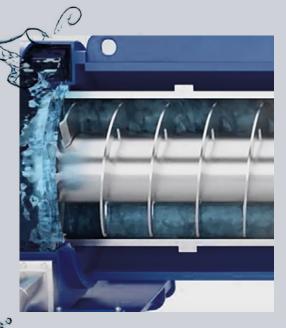






Over the years Pieralisi has developed a great experience and a strong know-how in the most important centrifuge markets. Therefore we developed a broad selection for our customers, granting them the most advanced technologies with the highest quality level.

We provide solutions to any technological solid-liquid and solid-liquid-liquid separation problem, through decanters which are placed on a large variety of application fields with a wide range of flow rates.





GLOBAL PRESENCE

Pieralisi is strategically located in Italy and worldwide, together with an extensive network of agents, technical service centres and spare parts warehouses. We support our customers with specific competences for each market, country and application.

APPLICATION FIELDS

ENVIRONMENTAL



We design and develop solutions for thickening and dewatering of sludge generated by municipal or industrial wastewater, biomasses and manures treatment plants. A large range of decanters is continuously innovated, basing on a number of installations and many years of experience in this field.

FOOD & BEVERAGE



We provide separation solutions for any type of food or beverage. Pieralisi decanter centrifuges are used for fruit or vegetable juice purification, wine processing, food treatment, edible additives extraction with the highest safety and hygiene standards compliant with the strictest regulations.

MINERAL OILS



We offer technological solutions for fuels cleaning and treatment, for lube oils purification, for the conditioning and recovery of mineral oils, industrial or environmental slop oils, bottom tank residues and bilge water.

RECYCLING



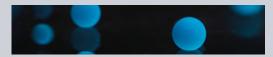
We take part in the recovery of process water and industrial fluids, in polymer recycling and in drilling mud conditioning.

VEGETABLE OILS



We are present in the production plants of vegetable oils and their derivates, including the recovery processes for any type of exhaust and waste vegetable oil.

CHEMICAL AND PHARMACEUTICAL



We provide solutions for several chemical industries in the purification of intermediate or final product san even in the recovery of waste products. Our decanter centrifuges are largely installed in pharmaceutica andbiotechnologies industry, inproduction processes of minerals, metalsand non-conventional fuels (e.g. biodiesel, ethanol).

FAT & OILS



In fish or meat processing industries and rendering plants, we supply decanter centrifuges able to obtain a high quality product by removing water, contaminants and solid impurities.

MODELS

		LENGTH*			
	Dimensions [LxWxH mm]	1	2	3	4
BABY	1	L - 1660 W - 780 H - 1095	L - 1860 W - 780 H - 1095	L - 2060 W - 780 H - 1095	-
MAIOR		L - 2380 W - 1245 H - 1460	L - 2680 W - 1245 H - 1460	L - 2980 W - 1245 H - 1460	L - 3280 W - 1245 H - 1460
JUMBO	0-10	I	L - 3375 W - 1580 H - 3680	L - 3895 W - 1580 H - 5300	L - 4305 W - 1580 H - 5300
		UNIQUE BODY LENGTH			
TITAN	O-Han O	L 4305 x W 1580 x H 1720			
МАММОТН	O mean 12 O	L 5050 x W 1920 x H 1990			
COLOSSUM	PIERALISI	L 5265 x W 1500 x H 1290			
GIANT	PREALINE COUNTY OF THE PROPERTY OF THE PROPERT	L 4910 x W 2390 x H 2245			

^{*} Available lengths based on model.

FEATURES

INLET AND SOLID-LIQUIDS DISCHARGE





Two Phases with continuous regulation

Two Phases

Inlet product

Inlet product

milet product

● Solid phase — free exit

■ Liquid phase — free exit
■ Liquid phase ▼ under pressure





Three Phases

Inlet product

Inlet product

Solid phase — free exit

Solid phase — free exit

Light liquid phase — free exit

Light liquid phase — free exit

Tree exit

Heavy liquid phase — free exit

Heavy liquid phase 🕶 under pressure

Three Phases with continuous regulation

Interchangeable liquid discharge outlets and levels

Liquid discharge level adjustable during operation

DRIVES

BOWL

MAIN MOTOR

Electric

Hydraulic





SCROLL

DIFFERENTIAL SPEED ADJUSTMENT

Fixed differential speed

Variable differential speed with automatic control (electric motor)





Variable differential speed with automatic control (hydraulic motor)

Variable differential speed with automatic control and mechanical energy recover *Rotovariator





LUBRICATION

TYPE

Oil bath

Automatic greasing

FEATURES

ROTATING ASSEMBLY STEEP CONE **INTERCHANGEABILITY** MODULAR BOWL **SHALLOW CONE** MODULAR BOWL The two different bowl configurations can be installed in the same cylindrical case (tunnel type). **BOWL** a) With liners a) b) b) With grooves **INNER SURFACE** Solid discharge bushings (replaceable) Wear protections Inner layer (flame spray) **SCROLL** a) Single flight b) Reduced pitch flight c) Variable pitch flight d) Flight with equalization windows With tungsten carbide flame spray Flight wear protections With sintered tungsten carbide tiles (replaceable) With plates tailored on each applications Diffuser wear protections requirements (replaceable) **MATERIALS ROTATING ASSEMBLY** Bowl High resistance stainless steel suitable for the treated product Scroll CASE Cylindrical body Painted carbon steel Solid-liquid chambers Stainless steel Subframe **WET PARTS** All components Tailored on each application requirements **SEALS** Bowl, rotating assembly High wear and chemical resistance **SOLUTIONS CONFIGURATIONS** Safe **INSTALLATION AREAS** Hazardous: ATEX Zone 1 / ATEX Zone 2 Turn-key system supplied on skid or container LAY-OUT Stand alone decanter with vibration absorbers and anchor device

OPTIONS

KITS AND SYSTEMS



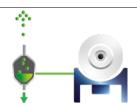
COUNTER **PRESSURE VALVE**

Controls the pressure of the liquid phase outlet and the separationinter phase.



SOLIDS SCRAPER DEVICE

Facilitates the detachment of the solid from the discharge chamber wall.



CYCLONE KIT

Allows the removal of gas or vapour from the liquid outlets.



FEEDING PUMP

Ensures constant and automatically adjustable flow to the decanter inlet.



FILTERING UNIT

Ensures the large solids removal from inlet product, protecting down stream pieces of equipment.



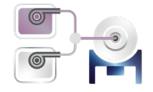
FLOW RATE MEASURING KIT

Measures and continuously monitors the inlet product and additive flows.



HEATING SYSTEM

Regulates the temperature of inlet product.



ADDITIVE UNIT

Allows the preparation and dosing of the additive necessary for the process.





ELECTRIC AND CONTROL PANEL

Permits the monitoring and the regulation of power, process parameters and safety devices.



INERTIZATION SYSTEM

Protects the decanter through an inert gas barrier, avoiding potential explosive mixtures inside (ATEX).



GATE VALVE KIT

Allows to isolate the decanter solid discharge from the conveying system.



CIP WASHING SYSTEM

Preparation for the washing and automatic cleaning of the separation unit.



SOLID CONVEYING SYSTEM

Manages the solid transportation from the decanter discharge to the storage area.



HOMOGENIZING SYSTEM

Homogenizes the temperature and the solid particles content of the inlet product.









