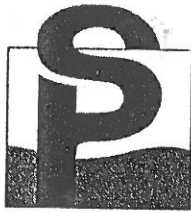




מערכת טיפול קדם משולבת TOP-3-60

TECHNICAL SPECIFICATIONS

Manufacturer



Pre-treatment unit serial TOP

Pre-treatment combined units serial TOP for a complete mechanical treatment of effluents.

One combined machine to obtain the following treatments:

Screen-conveying and compaction (dewatering)

Sand separation

Grease/oil removal

Depending from the inlet flow, the machines have different sizes. Standard range is composed from (15 lt/sec- 30 lt/sec- 45 lt/sec- 60 lt/sec- 80 lt/sec- 100 lt/sec)

Special executions also for 150 lt/sec- 200 lt/sec)

Combined units serial TOP are manufactured with the same philosophy of other equipments, it means that the units are composed from parts bolted together to grant a better inspection/maintenance.

First step of the unit is a screen screw compactor MID/T (different size depending from the inlet flow). After first step, effluent (without screenings), enter inside the sedimentation (and in case of TOP 3 also flotation hopper).

Hopper was designed to grant the sedimentation of sands/grit with a minimum size of 200 microns. On the bottom of the hopper, an horizontal shaftless screw convey sands until the extraction chamber. In the extraction chamber there is an inclined shaftless screw for the extraction and partial dewatering of sands.

Air diffusers are putted inside the sedimentation/flotation hopper to grant a better separation between organics matter and sands and also to grant the flotation of grease and oil.

In case of TOP 3, sedimentation hopper is manufactured with two different chambers:

First chamber for the sedimentation of sands and second chamber for the flotation of grease and oil. Effluent during flotation action will cross a separation trap and it will enter inside the flotation chamber.

Machine is manufactured with a surface skimmer driven from a gearmotor. Surface skimmer will convey oil and grease in the grease chamber.

Grease chamber can be connected with a pump to transfer all floated in a particular part of the wastewater plant.

It is possible to make inspection or to make maintenance in each part of the combined unit, opening simply a cover (fixed with bolts and screws), or opening a cover (fixed with clamps and safety microswitch).

Combined pre-treatment units serial TOP could be manufactured (under request), with integrate washing systems for screenings and for sands to reduce faecal matter and organic matter.

TOP range of machines, can be supplied with inlet DN 100 Perrot connection and motorised actuator valve to connect directly the unit to the septic receiver trucks.

Depending from solids concentration, capacity of the unit TOP will be to receive 50 mc/h or 100 mc/h

Machine is manufactured with carpentry in stainless steel (Aisi 304/ Aisi 316). Bolts are in stainless steel Aisi 304 or Aisi 316). Spiral can be supplied in micro alloy special steel or in stainless steel Aisi 304 or Aisi 316.

Every stainless steel parts is treated with acid and shot blasting with glass particles. In case of spiral in micro alloy special steel, spiral will be painted with epoxidic paint RAL 5010

All the range TOP can be supplied with a large range of accessories:

Integrate washing system in the screen zone and in the transport zone (with the possibility to

utilise also technical water 3 l/sec 5 Bar).
With integrate washing system it is possible to reduce fakal material untill 90%

Level indicator always necessary in the tank of the screen screw compactor

Longopac bagging unit fixed to the screenings outlet

Insulation in the transport and in the compaction zone
Insulation in the extraction sands screw

EEX2T3 ex proof electric motor

Fully bypass with manual rake in the screen screw compactor

Electronic torque limit switch for each electric motor

REFERENCE LIST STARTING FROM YEAR 2001 TO JANUARY 2005

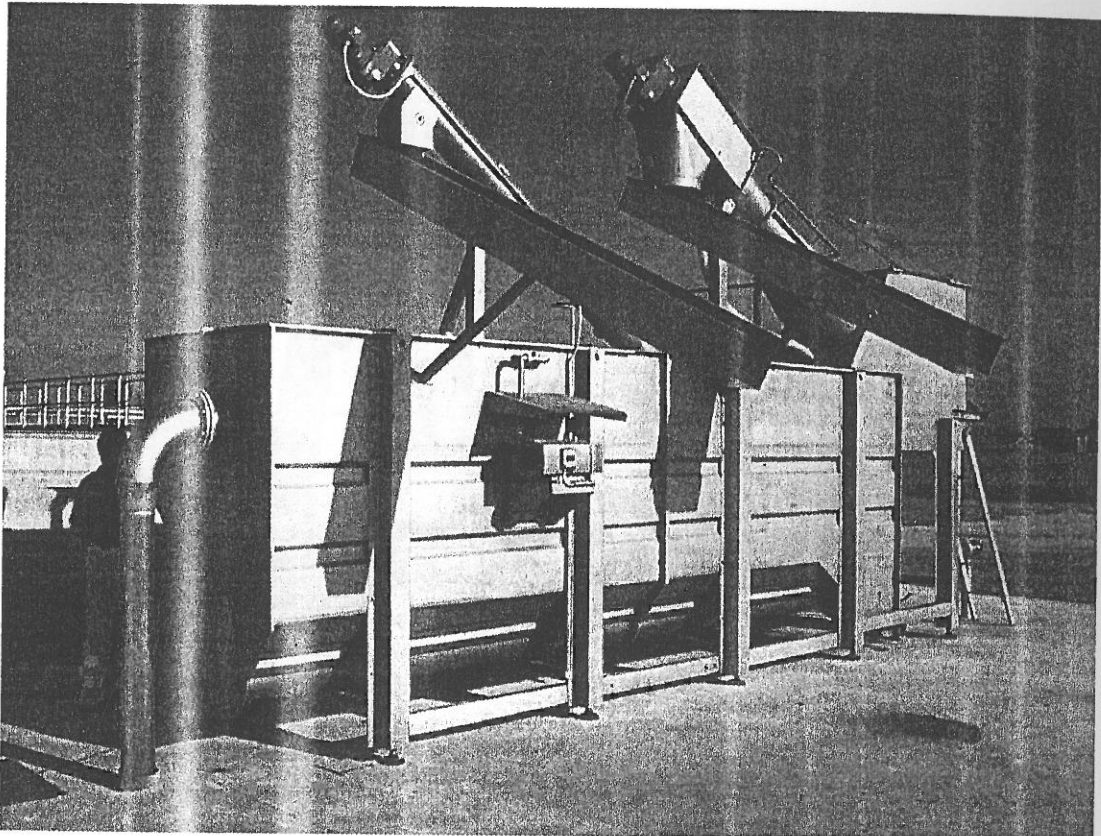


REFERENCES COMBIMATE UNITS SERIAL TOP

YEAR	CUSTOMER		MACHINE TYPE	APPLICATION
2001	SEABO	BOLOGNA	100 MC/H	SEPTIK TANK
2001	ECOPLAST EXPORT CARIBE	MILANO	30 MC/H	SEPTIK TANK
2001	DEPURPADANA ACQUE	BORSEA (RO)	50 MC/H	SEPTIK TANK
2002	AREA	RAVENNA	100 MC/H	SEPTIK TANK
2002	EPUROXI	MESSINA	50 MC/H	SEPTIK TANK
2002	SAVI	RONCOFERRARO (MN)	50 MC/H	SEPTIK TANK
2002	AZ.SERV.PUBBL.SILE-PIAVE	RONCADE-TV	100 MC/H	SEPTIK TANK
2003	ECOPLAST EXPORT CARIBE	MILANO	30 MC/H	SEPTIK TANK
2003	SAVI	RONCOFERRARO (MN)	50 MC/H	SEPTIK TANK
2003	EPUROXI	MESSINA	50 MC/H	SEPTIK TANK
2003	HERA	FAENZA	TOP 2 /30	SEPTIK TANK
2003	SAVI	RONCOFERRARO (MN)	TOP 2 /30	SEPTIK TANK
2003	SIDER POL SRL	ROVIGO	TOP 2/80	WWTP
2003	RPA	FANO	50 MC/H	SEPTIK TANK
2003	SAVI	RONCOFERRARO (MN)	288 MC/H	WWTP
2003	VoR Environmental	AUSTRALIA	288 MC/H	WWTP
2004	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2004	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2004	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2004	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2004	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2004	EQUIFLUXO	PORTUGAL	TOP 3 80 LT/SEC	WWTP
2004	EQUIFLUXO	PORTUGAL	M 30/2	WWTP
2004	EQUIFLUXO	PORTUGAL	M 30/2	WWTP
2004	EQUIFLUXO	PORTUGAL	M 30/2	WWTP
2004	EFACEC	PORTUGAL	TOP 3 60	WWTP
2004	EFACEC	PORTUGAL	TOP 3 45	WWTP
2004	INFAB	HUNGARY	TOP 3 45	WWTP
2004	INFAB	HUNGARY	50 MC/H	WWTP
2004	GEA	NAPOLI	50 MC/H	WWTP
2004	EFACEC	PORTUGAL	TOP 3 30	WWTP
2004	EFACEC	PORTUGAL	TOP 3 45	WWTP
2004	EFACEC	PORTUGAL	TOP 3 30	WWTP
2004	EFACEC	PORTUGAL	TOP 3 30	WWTP
2004	EFACEC	PORTUGAL	TOP 3 30	WWTP
2004	EFACEC	PORTUGAL	TOP 3 45	WWTP
2004	EFACEC	PORTUGAL	TOP 3 60	WWTP
2004	EFACEC	PORTUGAL	TOP 3 30	WWTP
2004	SAVI/SLOVENJA	SLOVENJA	TOP 3 30	WWTP
2004	SAVI/SLOVENJA	SLOVENJA	TOP 3 60	WWTP
2005	DEGREMONT SA	PORTUGAL	TOP 2 50 MC/H	WWTP
2005	VoR Environmental	AUSTRALIA	TOP 2 60	WWTP
2005	SIDER POL SRL	ROVIGO	TOP 100	WWTP
2005	EQUIFLUXO	PORTUGAL	TOP 3 30	WWTP
2005	PROGEIM	NAPOLI	M 50	WWTP
2005	ENVIRO-CARE	USA	TOP 2 60	WWTP
2005	SIDERPOL	ROVIGO	TOP 3 100	WWTP
2005	EQUIFLUXO	PORTUGAL	TOP 3 30	WWTP
2005	EQUIFLUXO	PORTUGAL	TOP 3 80 LT/SEC	WWTP
2005	SAVI	ITALY	TOP 2 150 l/sec	WWTP
2005	EFACEC	PORTUGAL	TOP 3 45	WWTP



14- Combined machine to receive and pre-treat any kind of effluent Type TOP



Combined units serial TOP are studied to pre-treat every kind of effluent:

TOP 2 -Screen screw compactor – Sand removal

TOP 3- Screen screw compactor – Sand removal- Grease removal

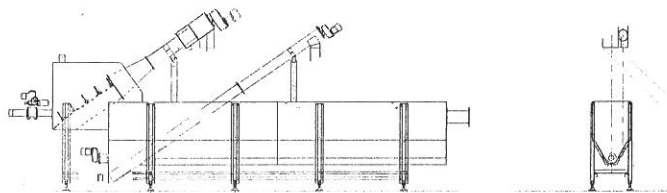
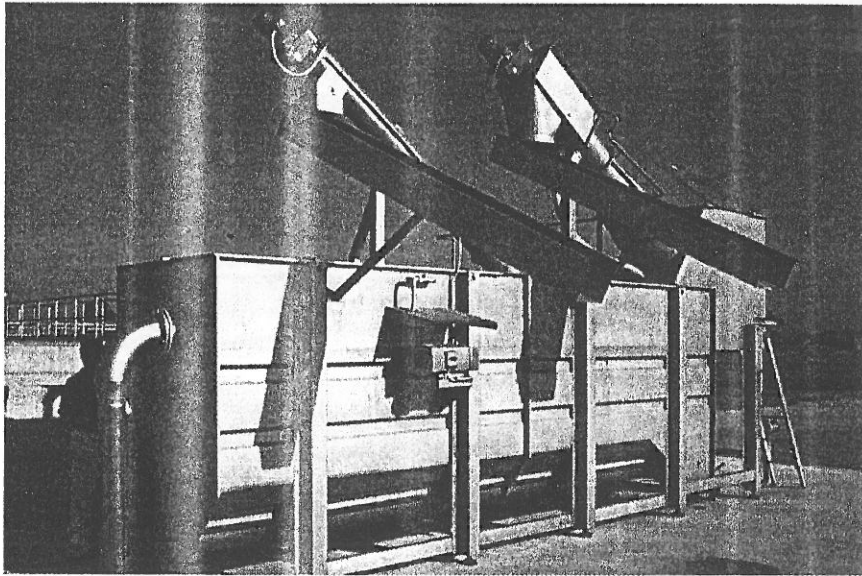
Maximum inlet flowrate 150 lt/sec

Sizes:

Top 2/3- 15	Inlet flow capacity	15 lt/sec (standard execution)
Top 2/3- 30	Inlet flow capacity	30 lt/sec (standard execution)
Top 2/3- 45	Inlet flow capacity	45 lt/sec (special execution)
Top 2/3- 60	Inlet flow capacity	60 lt/sec (special execution)
Top 2/3- 80	Inlet flow capacity	80 lt/sec (standard execution)
Top 2/3- 100	Inlet flow capacity	100 lt/sec (standard execution)
Top 2/3- 150	Inlet flow capacity	150 lt/sec (special execution)



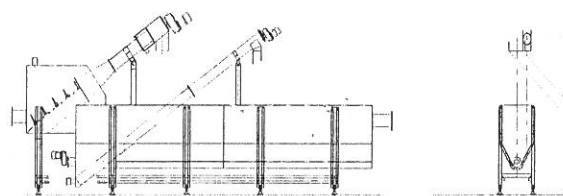
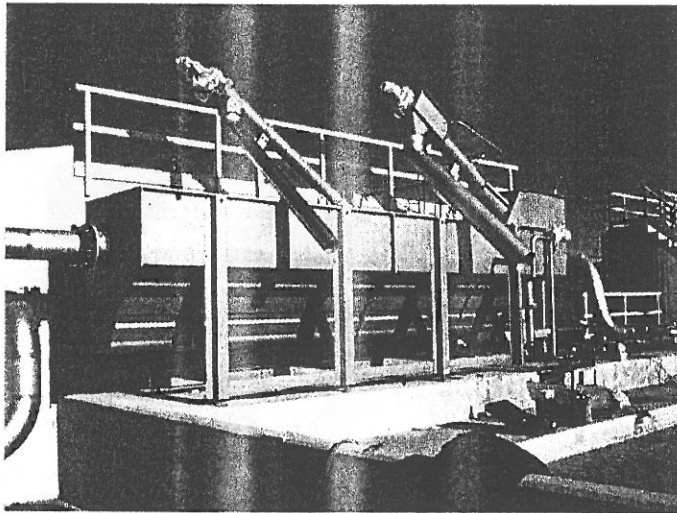
COMBINED PRE-TREATMENT UNIT SERIAL TOP FOR EFFLUENT COMING FROM SPETIK TANK



MODELLO	A	B	C	D	E	F	G	H	I	L	M
50	8200	1600	3250	730	1400	2300	1330	3050	2750	4650	6000
100	8200	2300	4500	1230	2000	3200	1850	3970	3620	6400	8000



COMBINED PRE-TREATMENT UNIT SERIAL TOP WITH INLET PIPE

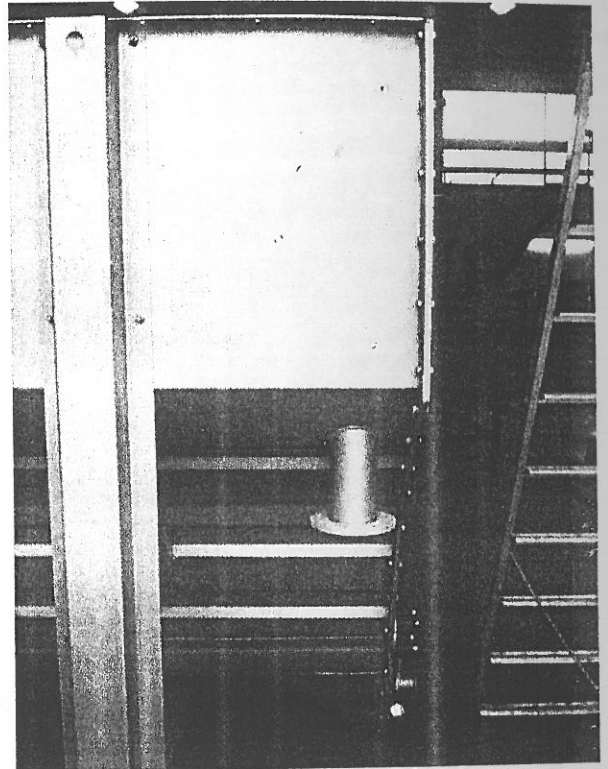
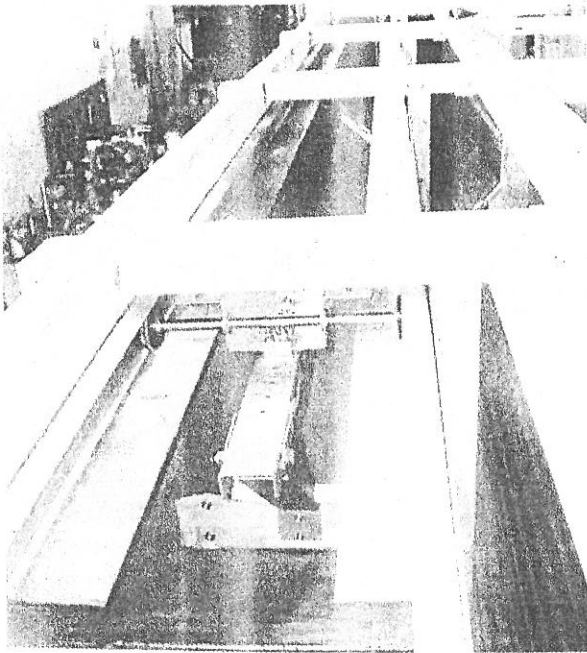


TYPE	A	B	C	D	E	F	G	H	I	L	M	N
15	4400	1600	3250	730	1400	2300	1330	3050	2750	4650	3000	dn150pn10
30	7400	1600	3250	730	1400	2300	1330	3050	2750	4650	6000	dn200pn10
80	7400	2300	3900	1230	2000	3200	1850	3800	2750	5600	6000	dn300pn10
100	13650	2300	4500	1230	2000	3200	1850	4000	3620	6400	12000	dn400pn10

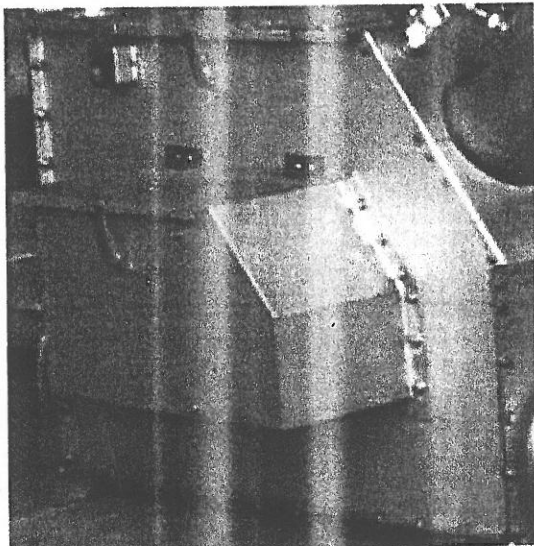


Combined machine to to receive and pre-treat any kind of effluent Type TOP

Accessories:



Degreasing unit with outlet flange. It is possible to connect a pump to the outlet flange to recovery oil and grease coming out from the unit TOP 3



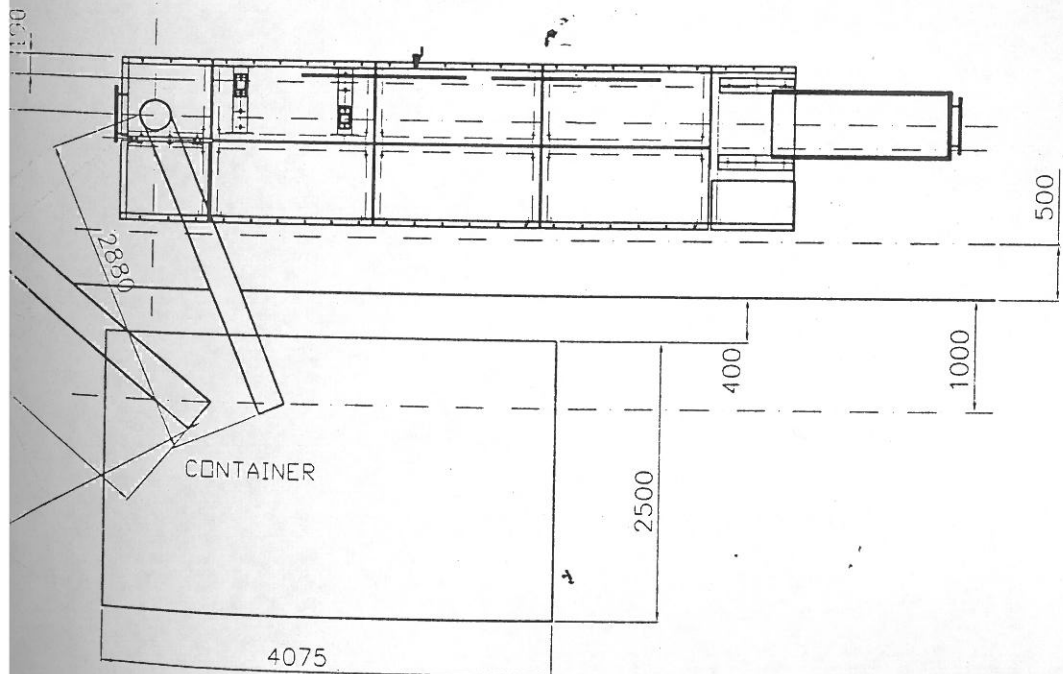
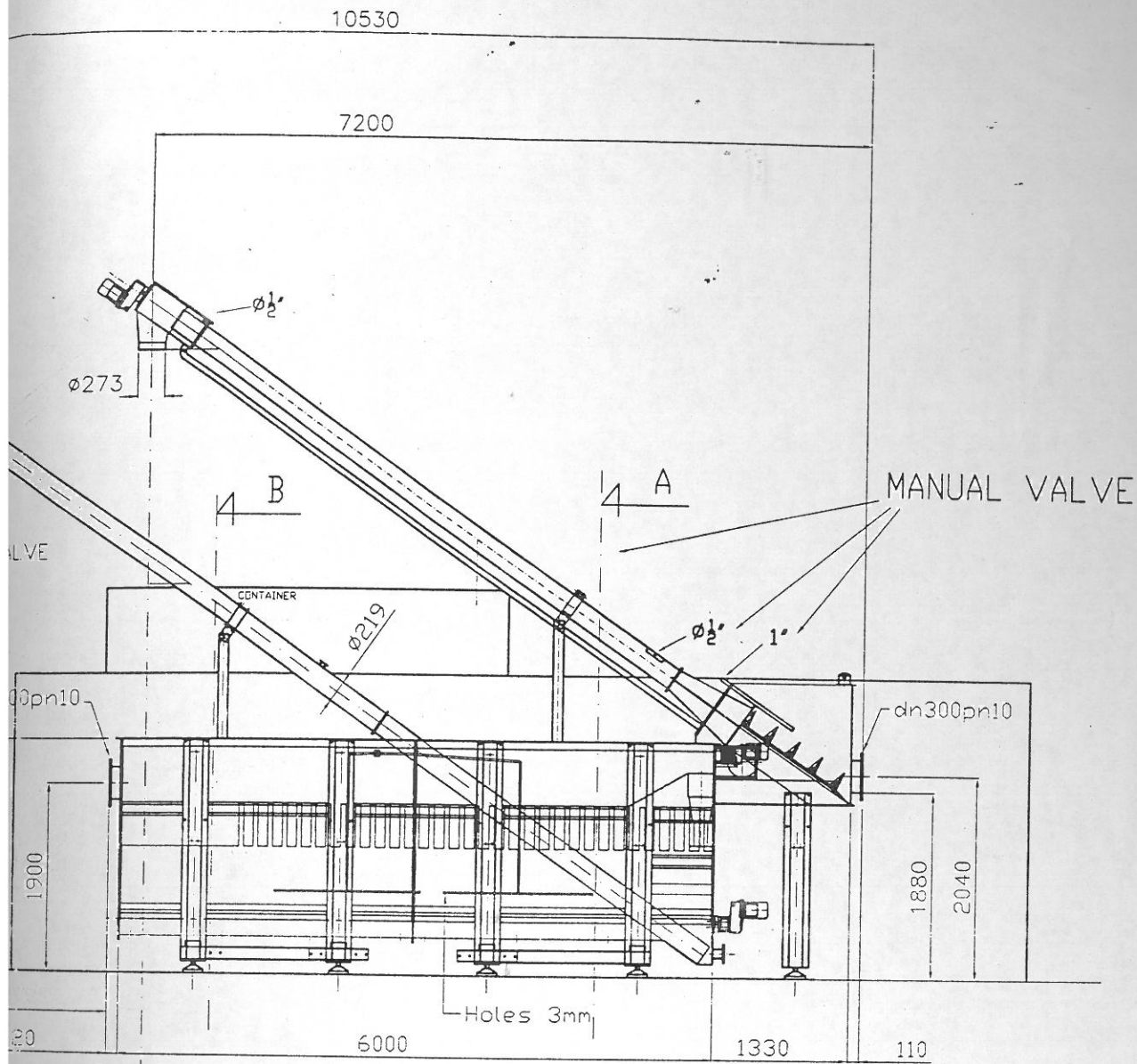
Fully bypass with manual rake











M.A.IND		MACCHINA	PESO Kg	DIMENSIONI DI TAGLIO
		DENOMINAZIONE: TOP 3 60		
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