
WAMGROUP

WAM®

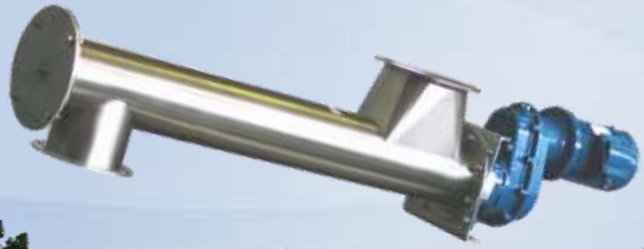
Since in 1969, Vainer Marchesini, founder and current Chairman and C.E.O. of the Group, manufactured his first Screw Conveyor the name WAM® has come to stand for innovation in Bulk Material Handling Technology and Equipment Supply.

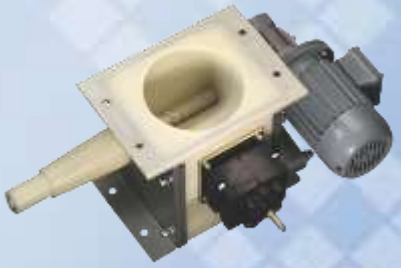
WAMGROUP®

WAMGROUP®

TODAY

WAMGROUP





WAMGROUP®


FOODS

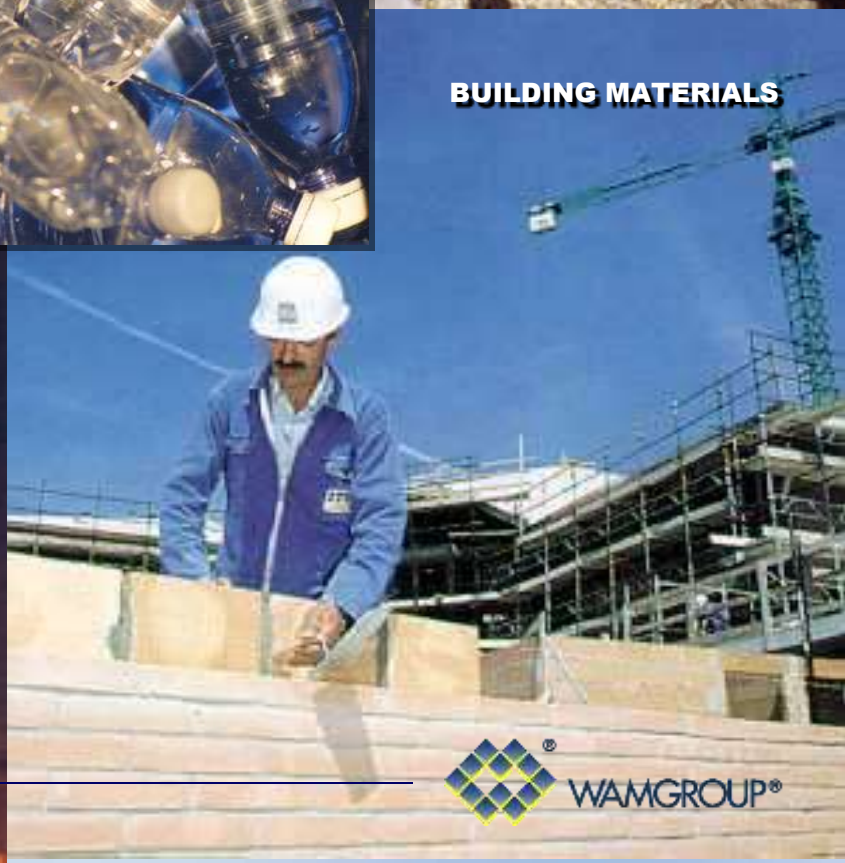

ASPHALT


ANIMAL FEED


PLASTICS


IRON METALLURGY - FOUNDRY

CHEMICALS


BUILDING MATERIALS

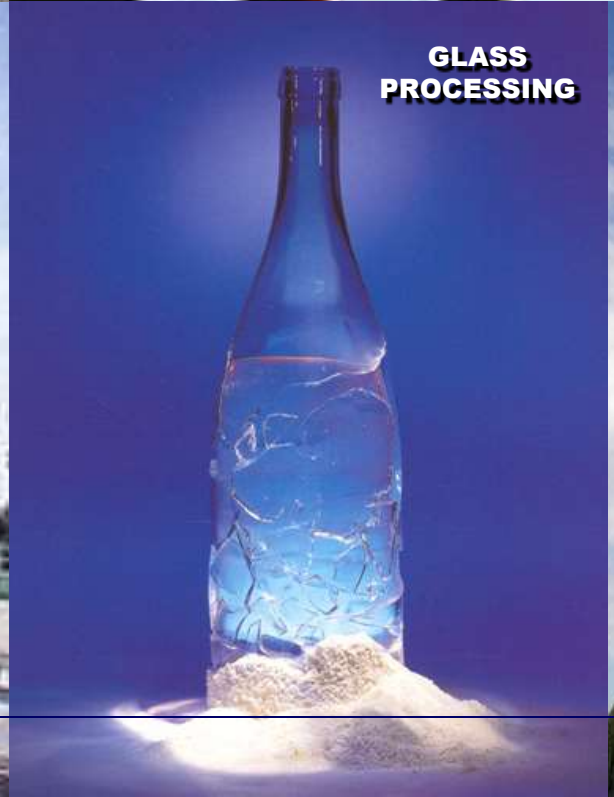
WAMGROUP®


MINING


PHARMACEUTICALS


CERAMICS


WASTE WATER
TREATMENT


GLASS
PROCESSING


FLOUR MILLING
WAMGROUP

FACTS & FIGURES SUMMARY

20 MANUFACTURING & ASSEMBLY PLANTS WORLD WIDE

WAMGROUP® CURRENTLY PRESENT IN 85 COUNTRIES

- 50 SUBSIDIARIES AROUND THE WORLD

  8 AMONGST FOREIGN SUBSIDIARIES INCLUDE PRODUCTION (ASSEMBLY LINES FOR MAJOR PRODUCTS)

- DEALERSHIP AGREEMENTS IN THOSE COUNTRIES WITHOUT A WAMGROUP® SUBSIDIARY

  5 SENIOR DEALERS

Product Range

Bulk Solids Conveying

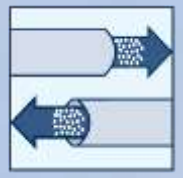
Air Filtration

Bulk Solids Flow Interception

Bulk Solids Discharging

Bulk Solids Feeding & Metering

Level & Pressure Monitoring Silo Safety



Pneumatic Conveying

Vibration Technology Aiding of Material Flow

Mixing – Conditioning Agglomerating – Granulating

Waste Water & Sludge Treatment

Brands

WAM®
Bulk Solids Handling Equipment

OLI®
Industrial Vibrators & Flow Aids

MAP®
Mixing Technology

SILOFAB
Silo Technology

TOREX®
Bulk Solids Handling Equipment

EXTRAC®
Bulk Solids Discharging Equipment

RONCUZZI®
Mechanical Conveying
Waste Water Treatment
Hydroenergy Equipment

FLITECH®
Helicoid Flighting Augers

TECNO CM
Engineering Polymer Components

SPECO®
Waste Water Treatment Equipment

SAVI
Solutions for Waste Water Treatment Plants

VISAM Vibratori
Solutions in Vibration Technology

Waste Water Treatment PLANT

Waste Water = water that has been used, as for washing, flushing, or in manufacturing processes, and so contains waste products.

Waste water also referred to as sewage.

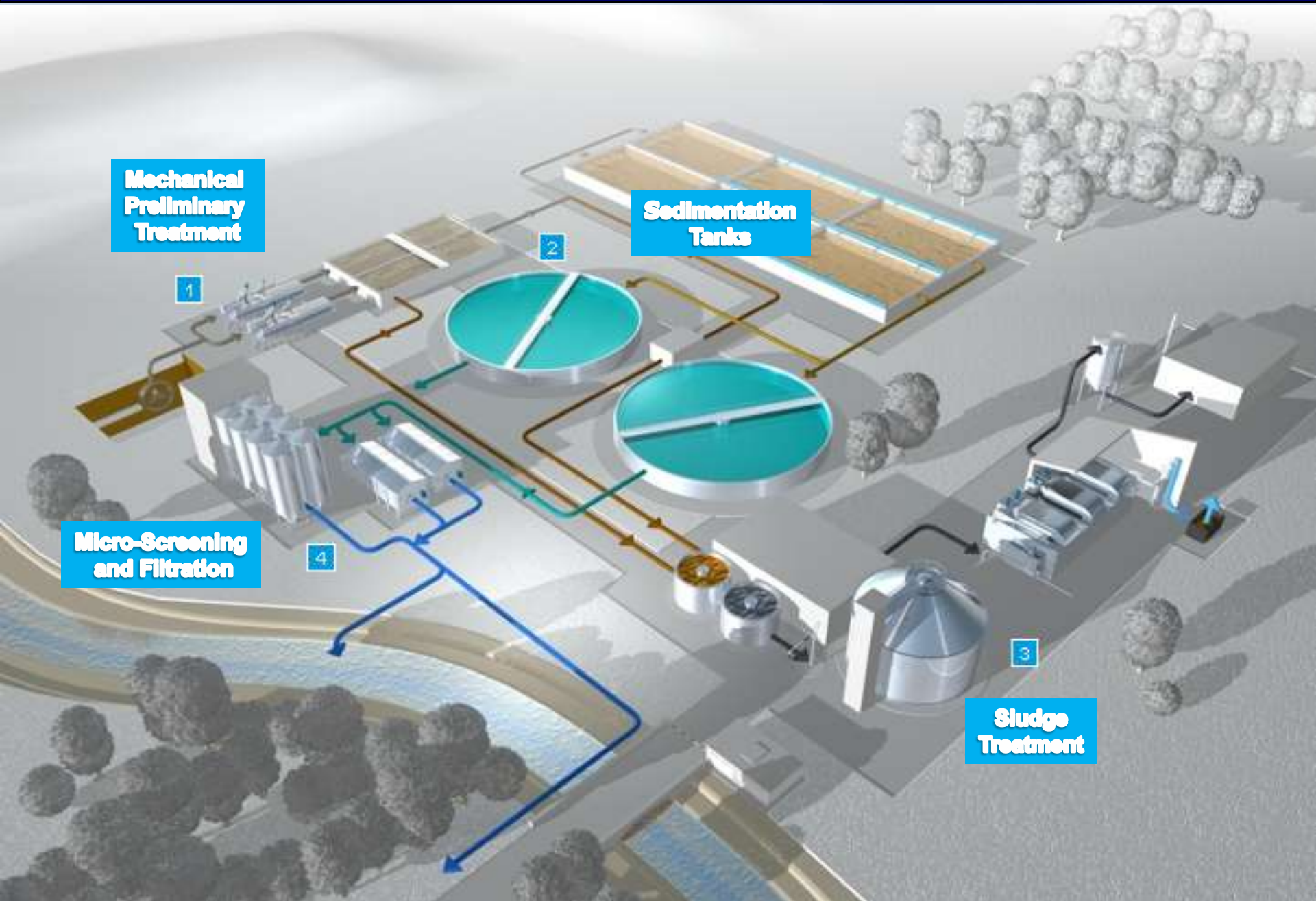
Waste Water

Division WAM SPECO SAVI

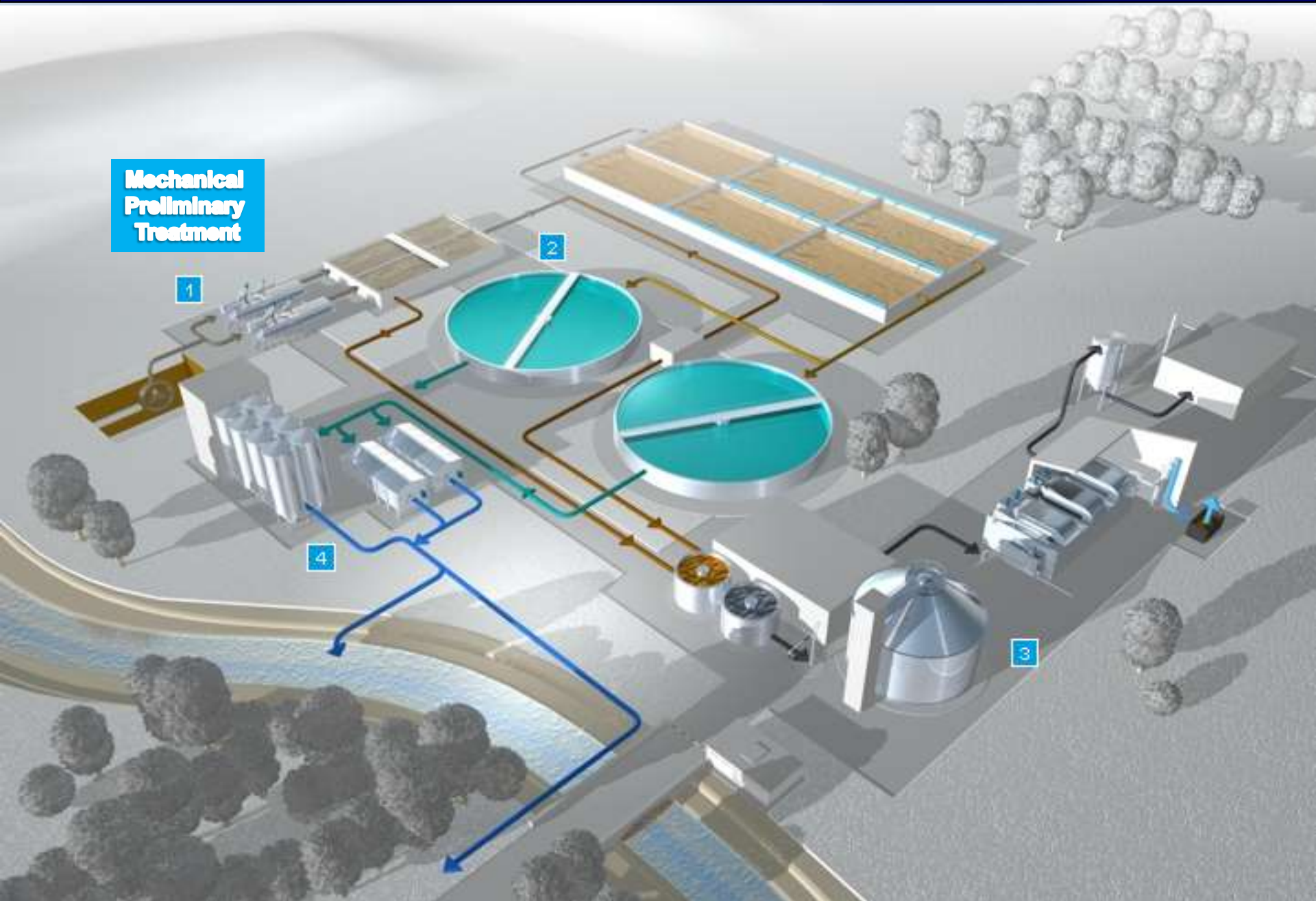
EQUIPMENT FOR:

- **SOLID/LIQUID Separation**
- **GRIT Removal**
- **GREASE Removal**
- **SLUDGE**

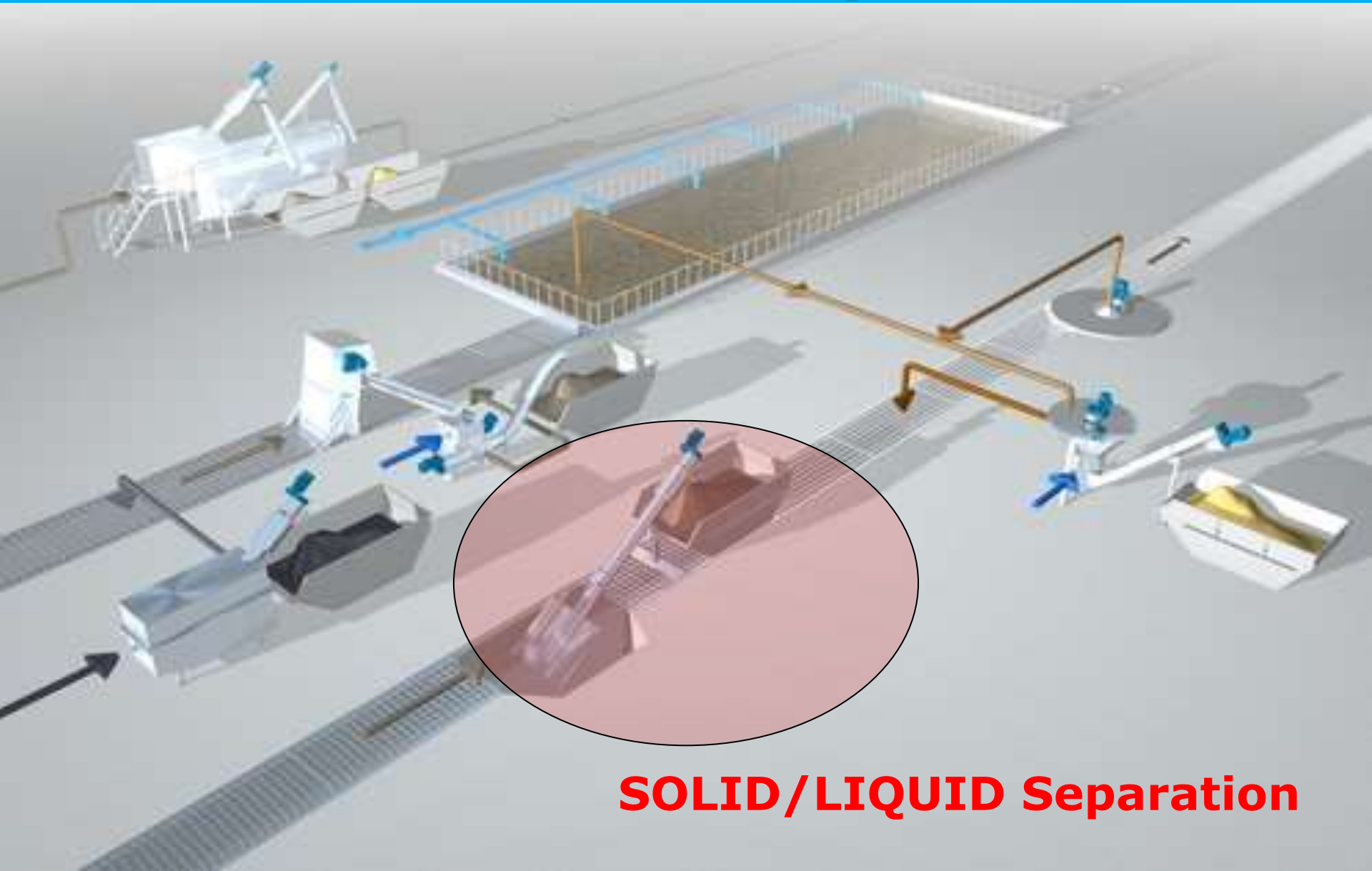
Waste Water Treatment PLANT



Waste Water Treatment PLANT



Mechanical Preliminary Treatment



Mechanical Preliminary Treatment

Screw Screens

WASTEMASTER®
GCP/GCE

Q = 30 ~ 300 l/s (63 ~ 635 cfm)

- **Fine screening in channel application**
- **Automatic removal of the suspended solids from waste water**
- **Different flow rates and size of screenings to be removed**

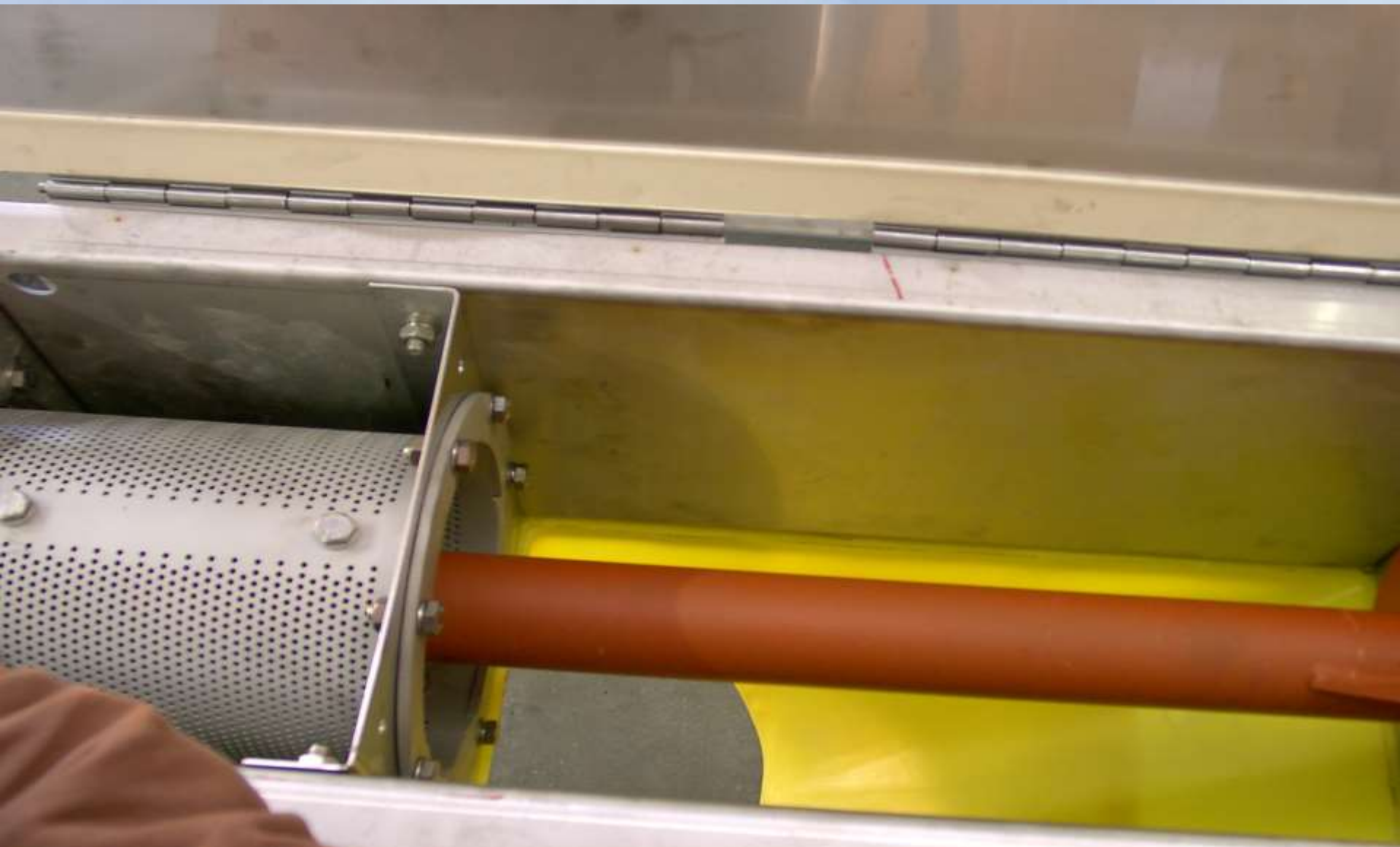
WASTEMASTER® GCP/GCE

WASTEMASTER® GCP/GCE

WASTEMASTER® GCP/GCE

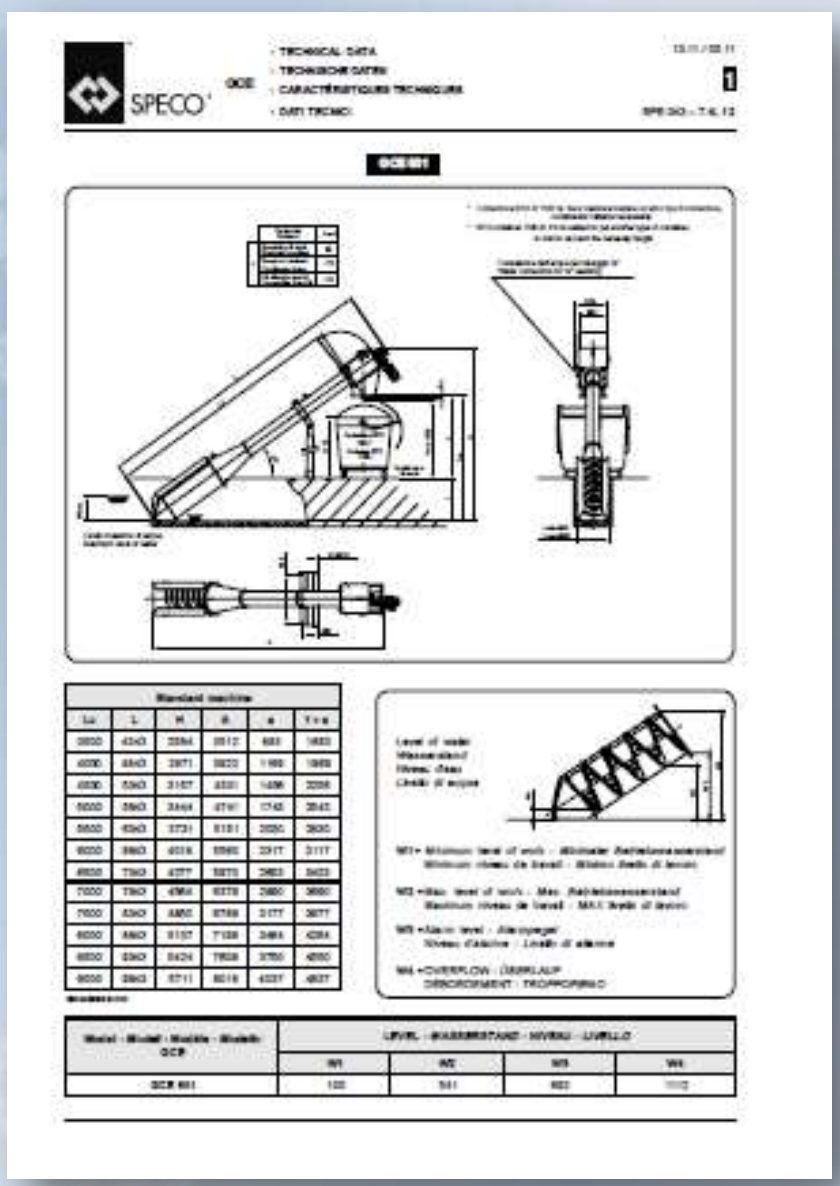
WASTEMASTER® GCP/GCE

WASTEMASTER® GCP/GCE



WASTEMASTER® GCP/GCE

Waste Water Treatment (8100 - 8200)



… in Technical Catalogue:

- Overall dimensions
- Extracting performance
- Feeding performance
- Motor information
- Gear reducer information

MAXIMUM RATES WITH JOHNSON SCREEN - *MAX. FÖRDERMENGEN MIT JOHNSON-SIEBEN*
DEBIT MAXIMUM AVEC CRIBLE JOHNSON - *PORTATE MASSIME CON VAGLIO JOHNSON*

SCREENS WITH JOHNSON PROFILE - *SIEBE MIT JOHNSON-PROFIL*
CRIBLE AVEC PROFIL JOHNSON - *VAGLI CON PROFILI JOHNSON*

Model - *Modell* Modèle - *Modello* GCP - GCE	JOHNSON SCREENS - JOHNSON-SIEBE CRIBLE JOHNSON - *VAGLI JOHNSON*		
	A= 0.5 mm (SPECIAL)	B= 1 mm	C= 2 mm
301	28	37	48
401	53	69	91
501	93	120	156
601	135	176	229
701	178	231	301

Rate "Q" (l/sec.) - *Fördermengen "Q" (l/sec)* - Debit "Q" (litres/sec.) - *Portate "Q" (litri/sec.)*

MAXIMUM RATES WITH DRILLED PLATE SCREEN - *MAX. FÖRDERMENGEN MIT LOCHBLECHSIEBEN*
DEBIT MAXIMUM AVEC CRIBLE PERCE - *PORTATE MASSIME CON VAGLIO FORATO*

DRILLED PLATE SCREENS - *LOCHBLECHSIEBE*
CRIBLE PERCES - *VAGLIO FORATO*

Model - *Modell* Modèle - *Modello* GCP - GCE	DRILLED PLATE SCREENS - *LOCHBLECHSIEBE* CRIBLE PERCES - *VAGLIO FORATO*		
	D= 3 mm	E= 5 mm	F= 6 mm
301	40	50	45
401	75	85	80
501	130	145	137
601	190	225	205
701	250	300	280

Rate "Q" (l/sec.) - F… …te "Q" *(litri/sec.)*

Model - *Modell* - Modèle - *Modello* GCP - GCE	dm³/sec
301	0.18
401	0.18
501	0.18
601	0.27
701	0.27

Main information for **correct sizing:**

Type and quantity of material to handle:

e.g: suspended solids and removal of solids, inlet flow rate

Screen basket mesh:

e.g.: round perforation, wedge wire

Compaction required?

e.g.: optional built in compactors

Flow rate, channel width, channel depth:

e.g.: define size of GCP/GCE (300, 400, 500, 600, 700mm)

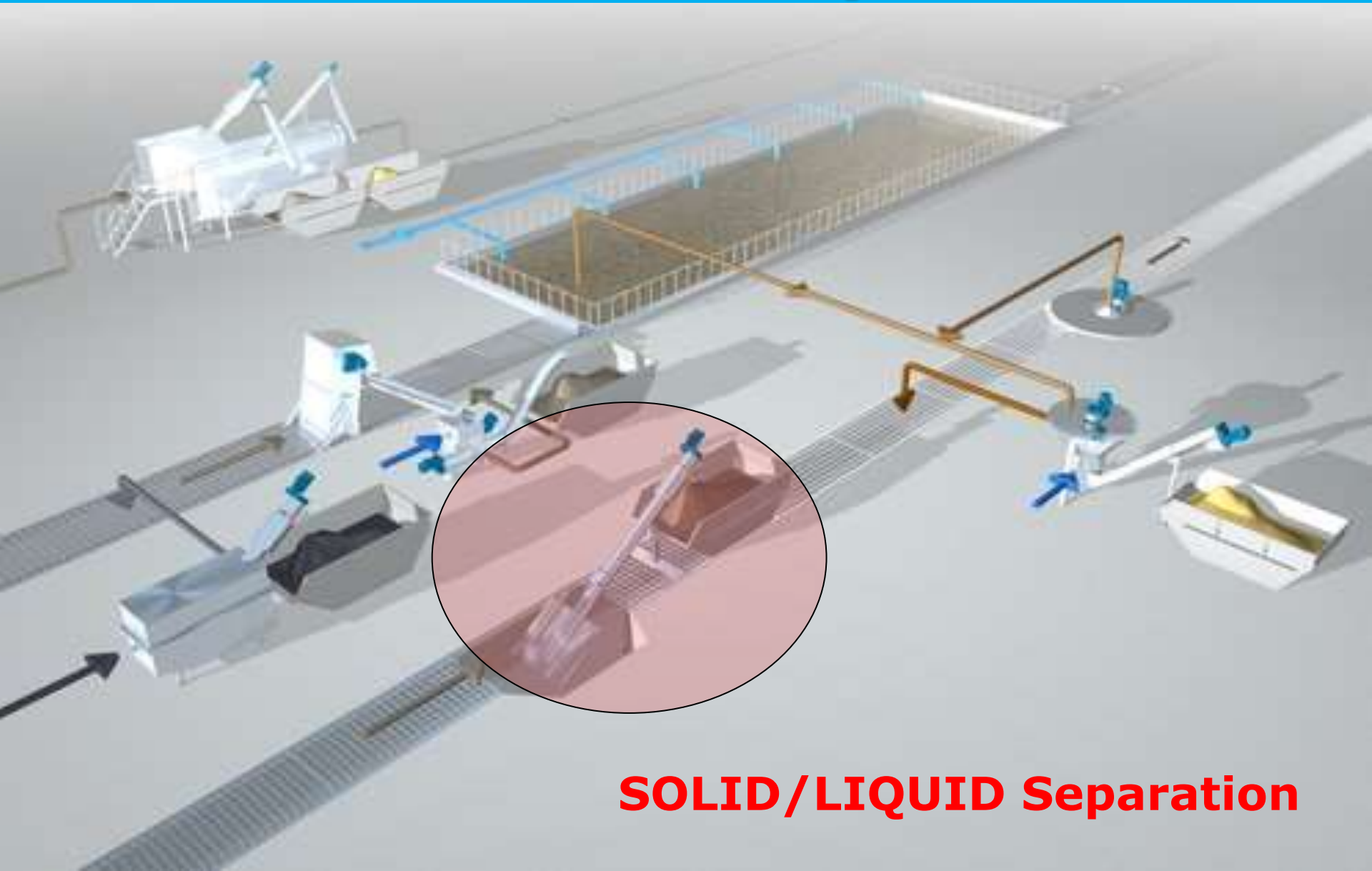
Place of installaton:

e.g.: existing channel or dedicated tank

Combination of materials

e.g.: 304/304 SS, 304 SS/mild steel, 316/316 SS, etc.

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

SAVI

Drum Fine Screens

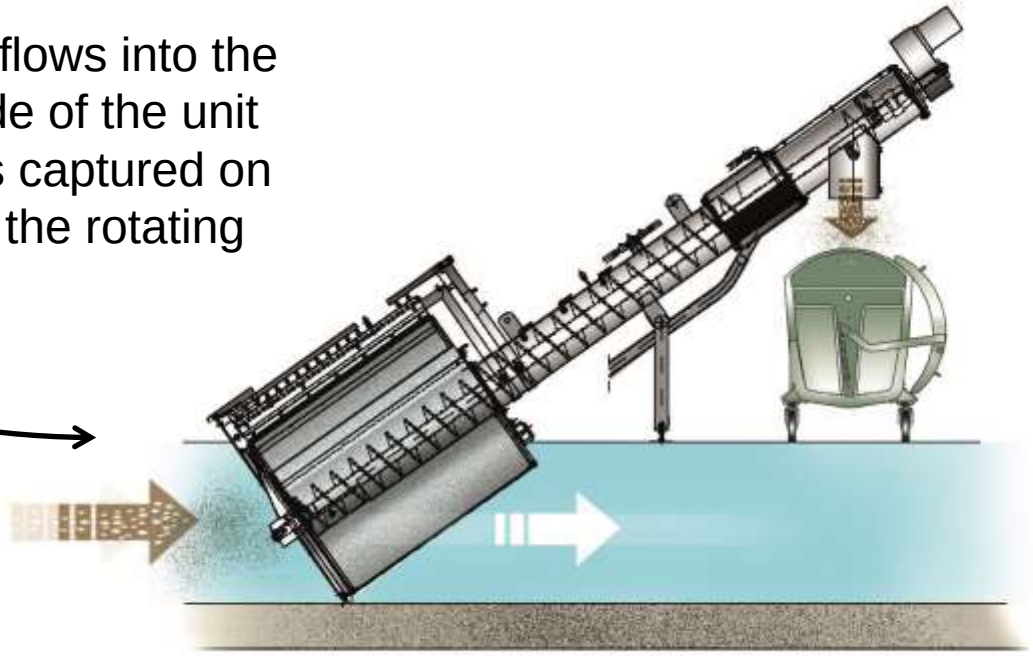
SPIRAMATIC

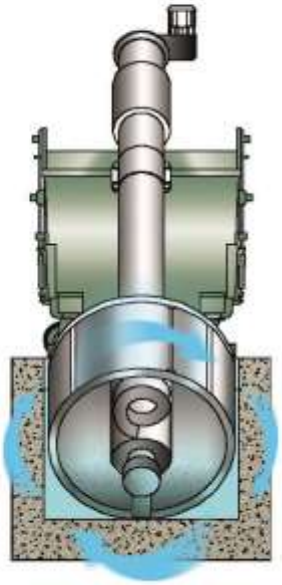
Q = 30 ~ 1550 l/s

- **Finest screening in channel application**
- **High capacity flow**
- **Different flow rates and size of screenings to be removed**

How does it work?

Wastewater flows into the upstream side of the unit and debris is captured on the inside of the rotating drum



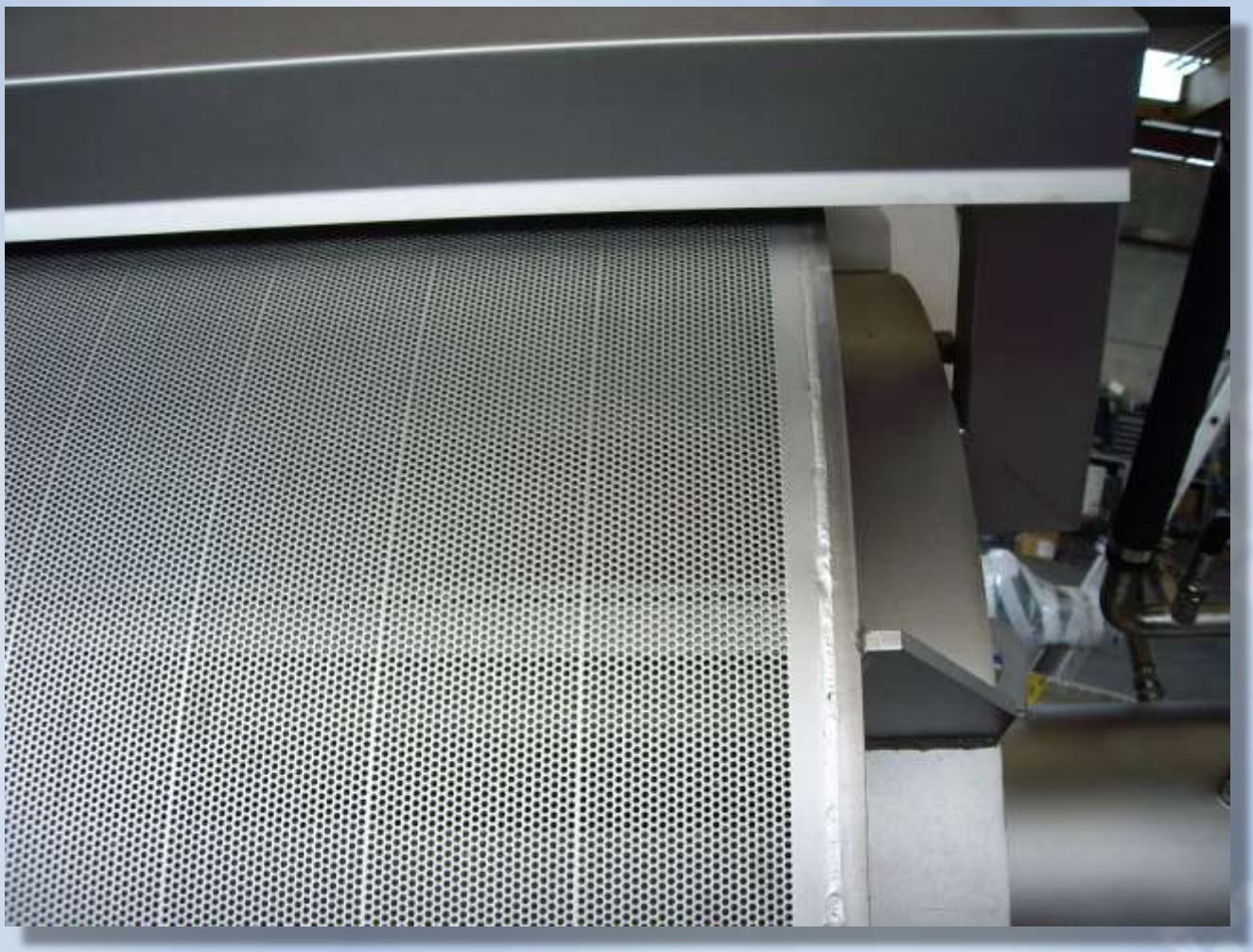


As the drum rotates, a spray bar cleans the debris from the inside of the drum, depositing it into the auger trough. A nylon brush removes any additional material from the outside of the drum

Waste Water Treatment

Waste Water Treatment

Perforated plate from 1 to 6 mm



Waste Water Treatment

Wedge Wire from 5 to 10 mm

Waste Water Treatment

Mesh from .5 to 1 mm

Waste Water Treatment

Screen drum cleaning brush

Screen drum spray bars

Basket Support Rollers

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment (8100 - 8200)

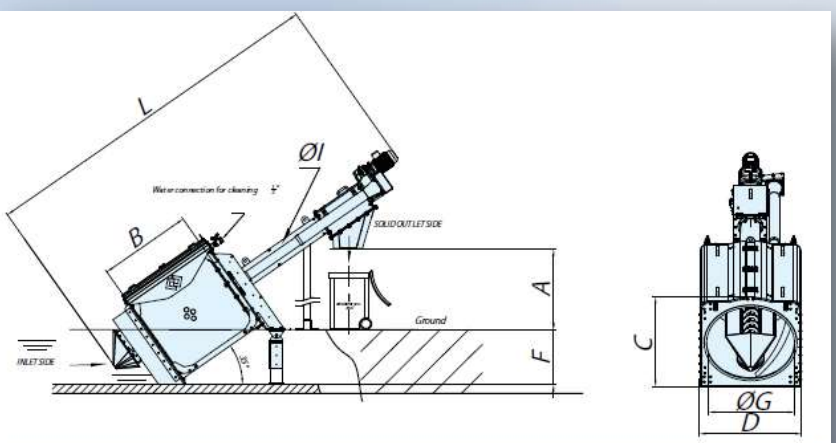
Main market needs:

- Automatic removal of suspended solids from waste water
- Robust and durable
- High flow rate and size of screenings to be removed
- Low maintenance

Main points:

- 40% volume reduction with built-in compactor (option)
- Heavy-duty shaftless screw conveyor
- Self-supporting turntable/wheel for drum and screw
- Specialised machine for both civil and industrial application

Waste Water Treatment (8100 - 8200)



Size	A	B	C	D	F	ØG	ØI	L
800	1,500	800	1,000	900	600	800	219	5,000
1000	1,500	1,000	1,200	1,100	800	1,000	219	5,300
1200	1,500	1,200	1,400	1,300	1,000	1,200	323	5,600
1400	1,500	1,400	1,600	1,500	1,200	1,400	323	6,000
1600	1,500	1,600	1,800	1,700	1,300	1,600	323	6,200
1800	1,500	1,800	2,000	1,900	1,500	1,800	406	6,500
2000	1,500	2,000	2,200	2,100	1,700	2,000	406	7,000

Dimensions in mm

… in Tech-Info and drawings:

- Overall dimensions
- Extracting performance
- Feeding performance
- Motor information
- Gear reducer information

Size	Max flow rate* [l/s]	Installed power [kW]	Solid extraction [m^3/h]
800	35 - 210	1.5	1
1000	60 - 230	1.5	1
1200	80 - 305	2.2	7
1400	120 - 530	2.2	7
1600	155 - 920	2.2	7
1800	240 - 1140	3.0	15
2000	300 - 1550	3.0	15

*Depending on the screen mesh

Main information for **correct sizing:**

Type and quantity of material to handle:

e.g.: suspended solids and removal of solids, inlet flow rate

Screen basket mesh:

e.g.: round perforation, wedge wire, bars

Compaction required?

e.g.: optional built-in compactor

Flow rate, channel width, channel depth:

e.g.: define size of FTR (800, 1000, 1200, 1400, 1600, 1800, 2000mm)

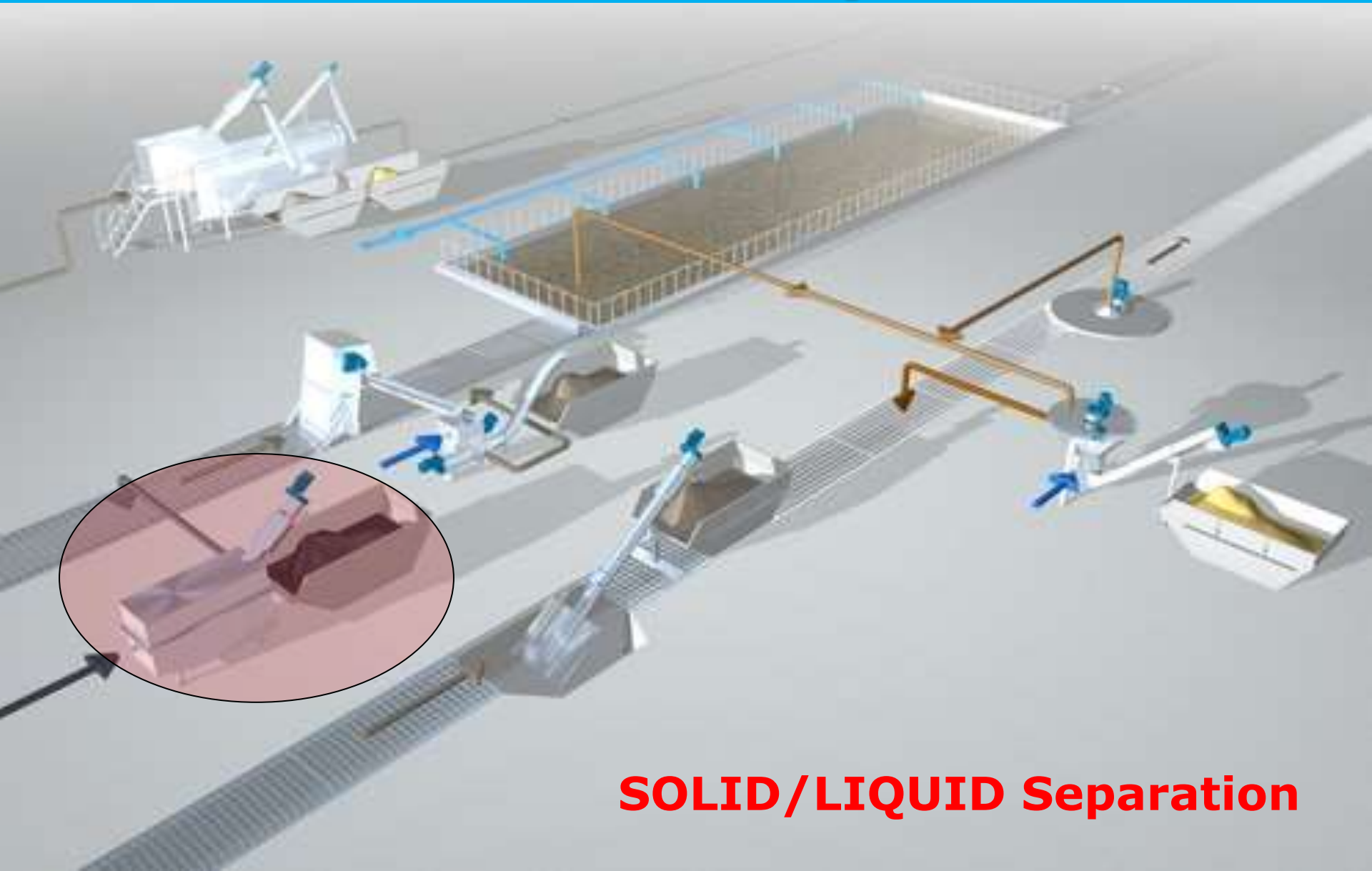
Place of installaton:

e.g.: existing channel or dedicated tank

Combination of materials:

e.g.: 304/304 SS, 304 SS/mild steel, 316/316 SS, etc.

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

Screw Screens

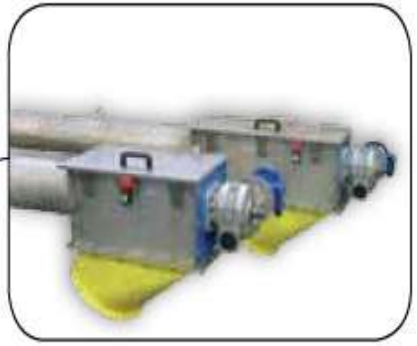
WASTEMASTER®
GCPC/GCEC

Q = 30 ~ 300 l/s (63 ~ 635 cfm)

- **Fine screening in TANK application**
- **Automatic removal of the suspended solids from waste water**
- **Different flow rates and size of screenings to be removed**

WASTEMASTER® GCPC/GCEC

Insulated Discharge Module



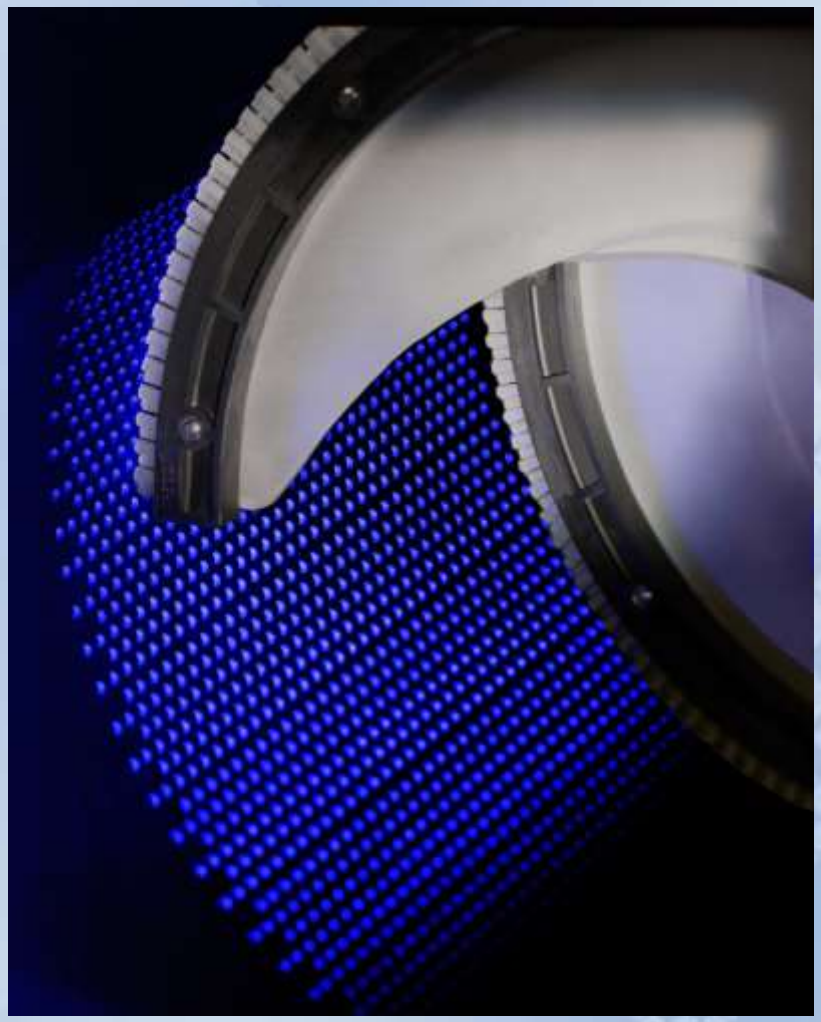
GCEC and GCPC
Outlet Sections

Inlet Screen Basket
with Splash Guard

GCPC Outlet Top View

WASTEMASTER® GCPC/GCEC

WASTEMASTER® GCPC/GCEC



Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Main market needs:

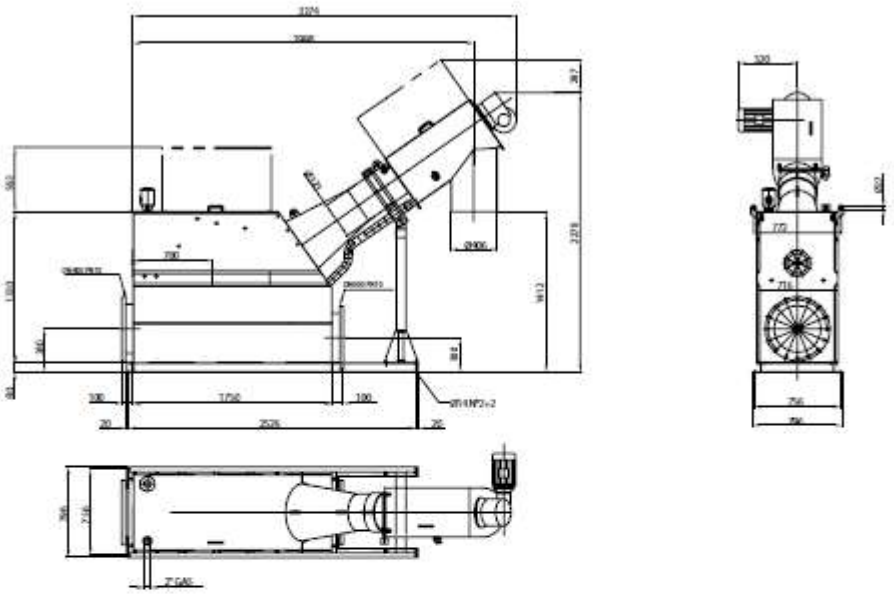
- Automatic removal of suspended solids from waste water feeding pipe
- Robust and durable
- Different flow rates and size of screenings to be removed
- Low maintenance

Main points:

- Completely bolted assemby; tank supplied with different side outlets
- 40% volume reduction with built-in compactor
- Heavy-duty shaftless screw conveyor
- Heavy resistant brush segments and bearing support for cleaning and protection of screen basket
- Specialised machine for both civil and industrial application

Waste Water Treatment

GCP/C 600

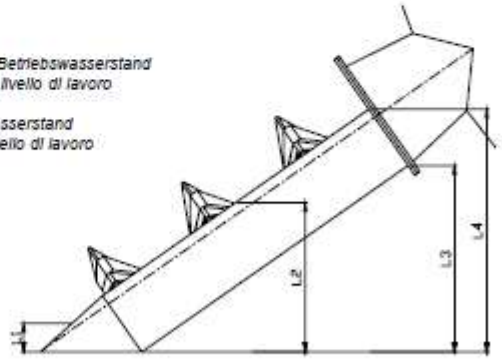


L1 = Minimum level of work / *Minimaler Betriebswasserstand*
Minimum niveau de travail / *Minimo livello di lavoro*

L2 = Max. level of work / *Max. Betriebswasserstand*
Maximum niveau de travail / *MAX livello di lavoro*

L3 = Alarm level / *Wasserstand-Alarm*
Niveau d'alerte / *Livello di allarme*

L4 = Overflow / *Überlauf*
Débordement / *Troppopieno*



Model / *Modell* / Modèle / *Modello*	Level / *Wasserstand* / Niveau / *Livello*			
	L1	L2	L3	L4
GCP/C 600	100	520	660	996

… in Technical Manual and drawings:

- Overall dimensions (drawings)
- Extracting performance
- Feeding performance
- Motor information
- Gear reducer information

Model - *Modell* Modèle - *Modello* GCP/C	JOHNSON SCREENS - JOHNSON-SIEBE CRIBLE JOHNSON - *VAGLI JOHNSON*		
	A= 0.5 mm (SPECIAL)	C= 1 mm	D= 2 mm
300	28	37	48
400	53	69	90
500	93	120	156
600	135	176	229
700	178	230	301

Rate "Q" (l/sec.) / *Fördermengen "Q" (l/sec)* / Debit "Q" (litres/sec.) / *Portate "Q" (litri/sec.)*

Model - *Modell* Modèle - *Modello* GCP/C	DRILLED PLATE SCREENS - *LOCHBLECHSIEBE* CRIBLE PERCES - *VAGLIO FORATO*		
	E= 3 mm	G= 5 mm	H= 7 mm
300	40	60	55
400	75	86	93
500	130	146	160
600	190	225	245
700	250	300	330

Rate "Q" (l/sec.) / *Fördermengen "Q" (l/sec)* / Debit "Q" (litres/sec.) / *Portate "Q" (litri/sec.)*

Main information for **correct sizing**:

Type of material to handle:

e.g.: suspended solids and removal of solids, inlet flow rate

Compaction required?

e.g.: optional built-in compactor

Flow rate, outlet side:

e.g.: define size of GCPC (300, 400, 500, 600, 700mm) on the flow rate

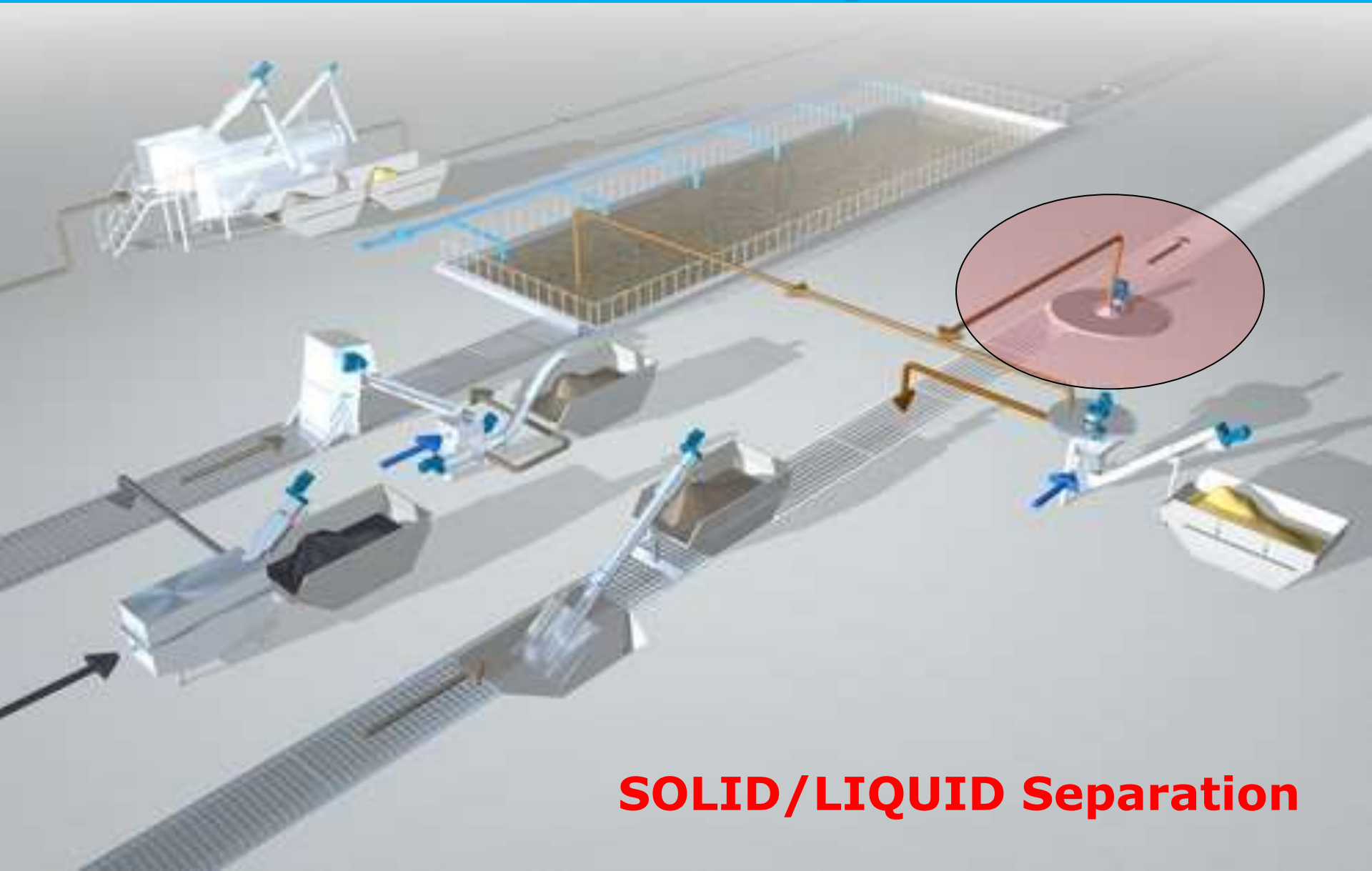
Place of installaton:

e.g.: indoors or outdoors

Combination of materials

e.g.: 304/304 SS, 304 SS/mild steel, 316/316 SS, etc.

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

SPECO®

Vertical Screw Screens

GCV

Q = 36 ~ 70 l/s (76 ~ 148 cfm)

- **Space-saving in PIT application**
- **High efficiency solid removal**
- **Use as protection for pumps**

WASTEMASTER® GCV

Insulated discharge module

Highly efficient outlet spout in plastic material

Inlet spout and split screen basket

Washing tube

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment (8100 - 8200)

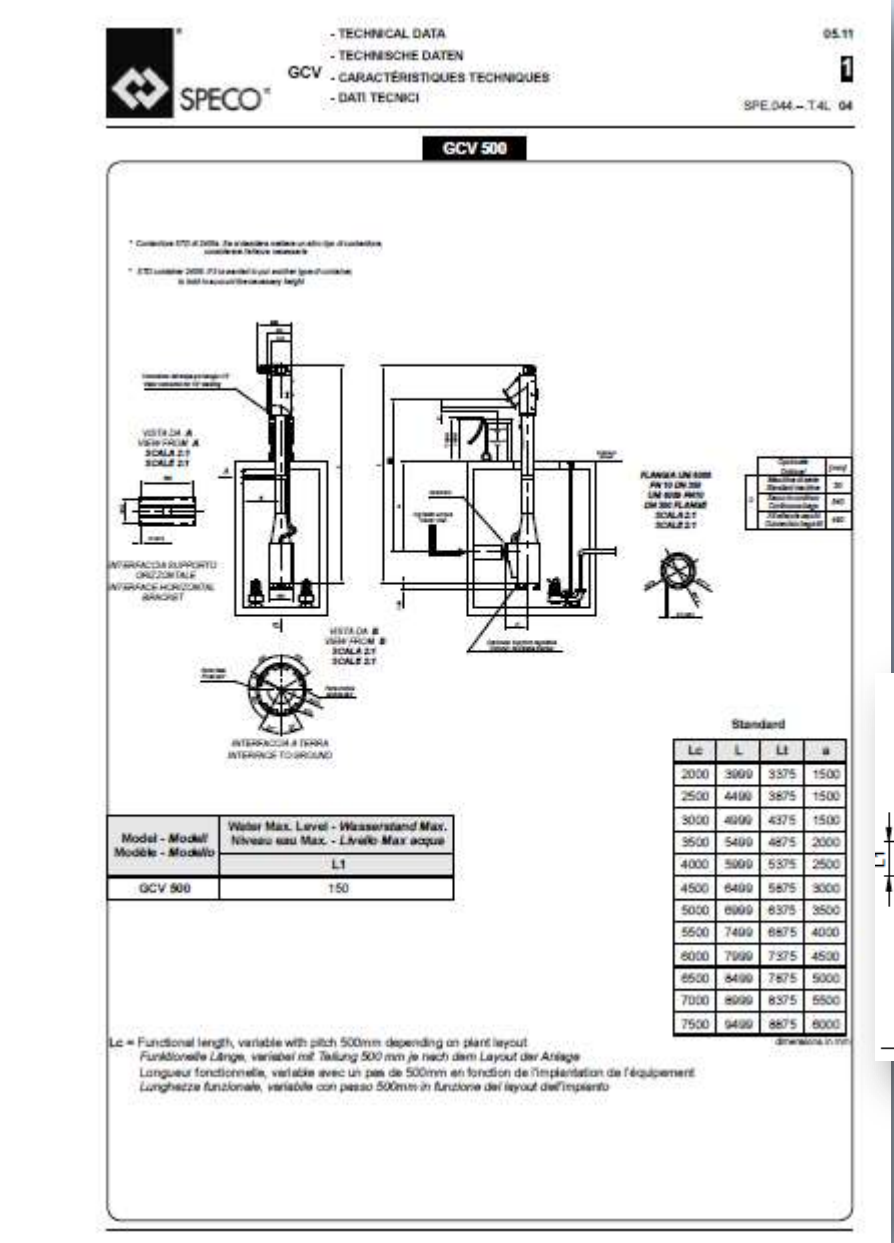
Main market needs:

- Automatic removal of suspended solids from a pipe inside deep pit
- Robust and durable
- Different flow rates and size of screenings to be removed
- Low maintenance

Selling points:

- 40% volume reduction with built-in compactor
- Wide range of accessories
- Heavy-duty shaftless screw conveyor
- Heavy resistant brush segments and bearing support for cleaning and protection of the screen basket
- Specialised machine for both civil and industrial applications

Waste Water Treatment (8100 - 8200)



SPECO

GCV - TECHNICAL DATA - TECHNISCHE DATEN - CARACTÉRISTIQUES TECHNIQUES - DATI TECNICI

05.11

SPE.044 – T.4L 04

GCV 500

Model - *Modell* Modèle - *Modello*	Water Max. Level - *Wasserstand Max.* Niveau eau Max. - *Livello Max acqua*
	L1
GCV 500	150

Standard

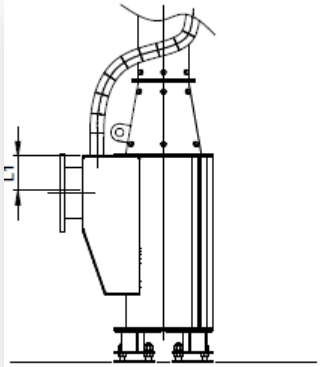
Lc	L	L1	a
2000	3999	3375	1500
2500	4499	3875	1500
3000	4999	4375	1500
3500	5499	4875	2000
4000	5999	5375	2500
4500	6499	5875	3000
5000	6999	6375	3500
5500	7499	6875	4000
6000	7999	7375	4500
6500	8499	7875	5000
7000	8999	8375	5500
7500	9499	8875	6000

dimensions in mm

Lc = Functional length, variable with pitch 500mm depending on plant layout
Funktionelle Länge, variabel mit Teilung 500 mm je nach dem Layout der Anlage
Longueur fonctionnelle, variable avec un pas de 500mm en fonction de l'implantation de l'équipement
Lunghezza funzionale, variabile con passo 500mm in funzione del layout dell'impianto

… in Technical Manual and drawings:

- Overall dimensions (drawings)
- Extracting performance
- Feeding performance
- Motor information
- Gear reducer information



Model - *Modell* Modèle - *Modello*	Flow - *Fördermenge* - Débit - *Portata* [l/s] 3mm	Flow - *Fördermenge* - Débit - *Portata* [l/s] 6mm
GCV 300	36	47
GCV 500	70	90

Note: These values are are related to clean water.
Anm.: Diese Werte beziehen sich auf Reinwasser.
Remarque: Ces valeurs se réfèrent à de l'eau propre.
Nota: questi valori si riferiscono ad acqua pulita.

Main information for **correct sizing:**

Type of material to handle:

e.g.: suspended solids and removal of solids, inlet flow rate

Flow rate and pit depth:

e.g.: define size and length of GCV (200, 300, 500mm)

Outlet side:

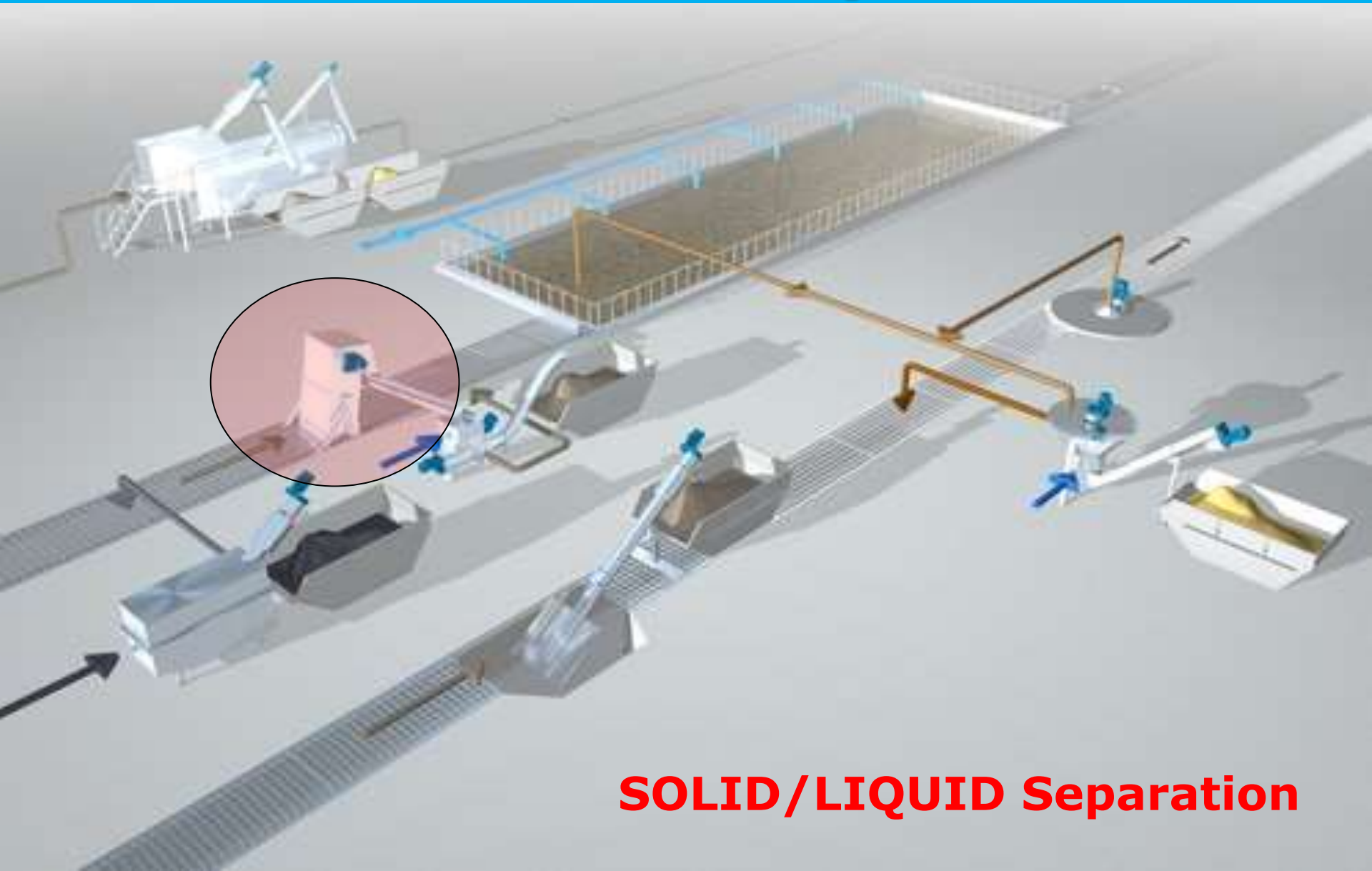
e.g.: define position of discharge point

Combination of materials:

e.g.: 304/304 SS, 304 SS/mild steel, 316/316 SS, etc.

Waste Water Treatment (8100 - 8200)

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

Multi-Rake Screen

GVB-GVF-GVS

- **Removal of solids in High channel depth**
- **Available for channels up to 2 m wide**
- **800 units installed worldwide**

How does it work?

Wastewater flows into the upstream side of the unit and debris is captured on the bars

The material is removed from the rakes by the wiper and discharged into a dumpster, conveyor or compactor

The chain-driven rakes clean the bars and transport the material to the discharge point

Waste Water Treatment

The three Multi-Rake models:

- GVB multirake Coarse Bar Screen - >12mm - 38 mm **spacing**

- GVF multirake Fine Bar Screen - 6mm-10mm **spacing**

- GVS multirake perforated screen - 3mm-6mm **perforations**

Waste Water Treatment

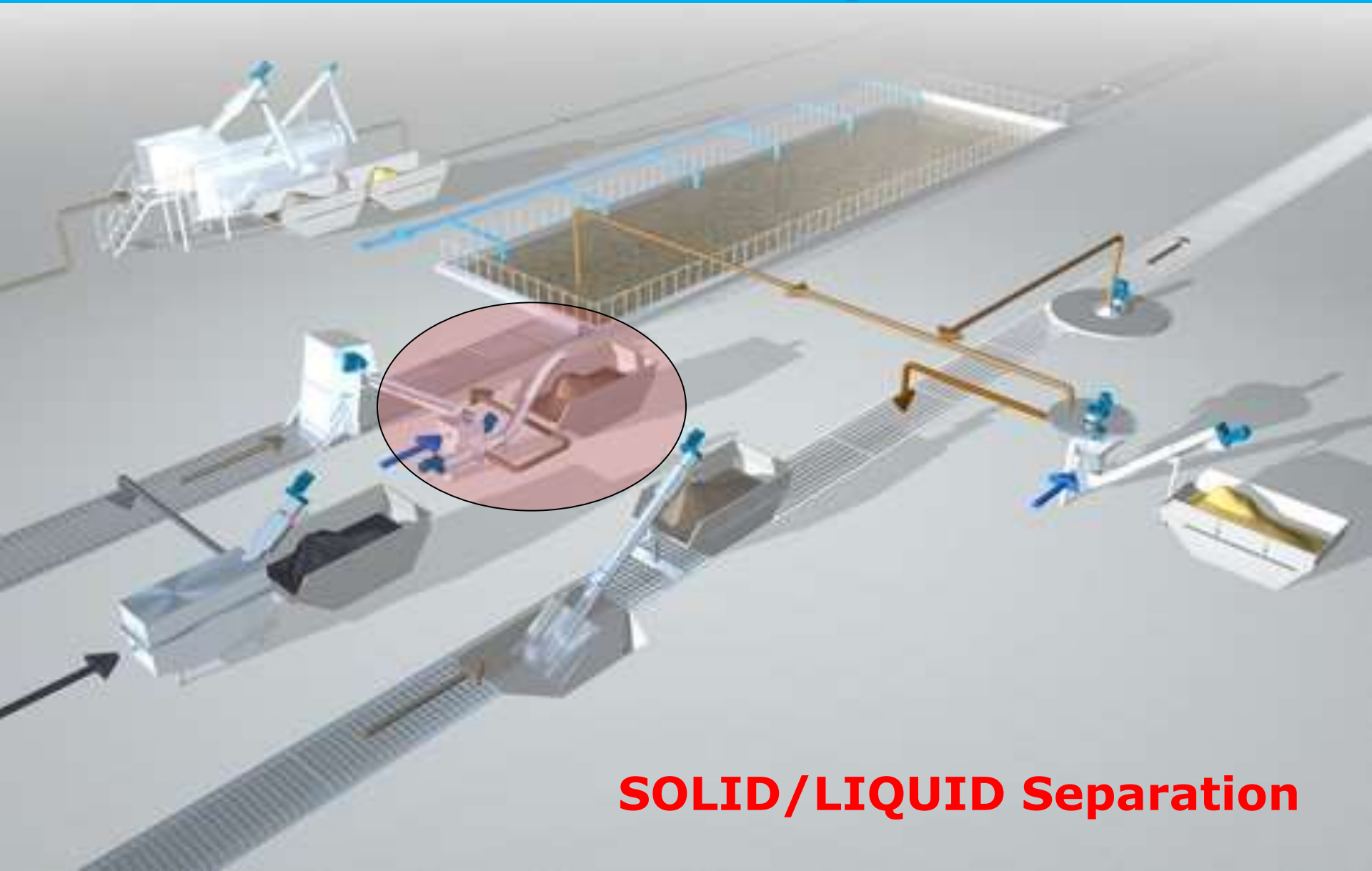
Waste Water Treatment

Drive sprockets and wiper

Drive chain

Waste Water Treatment

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

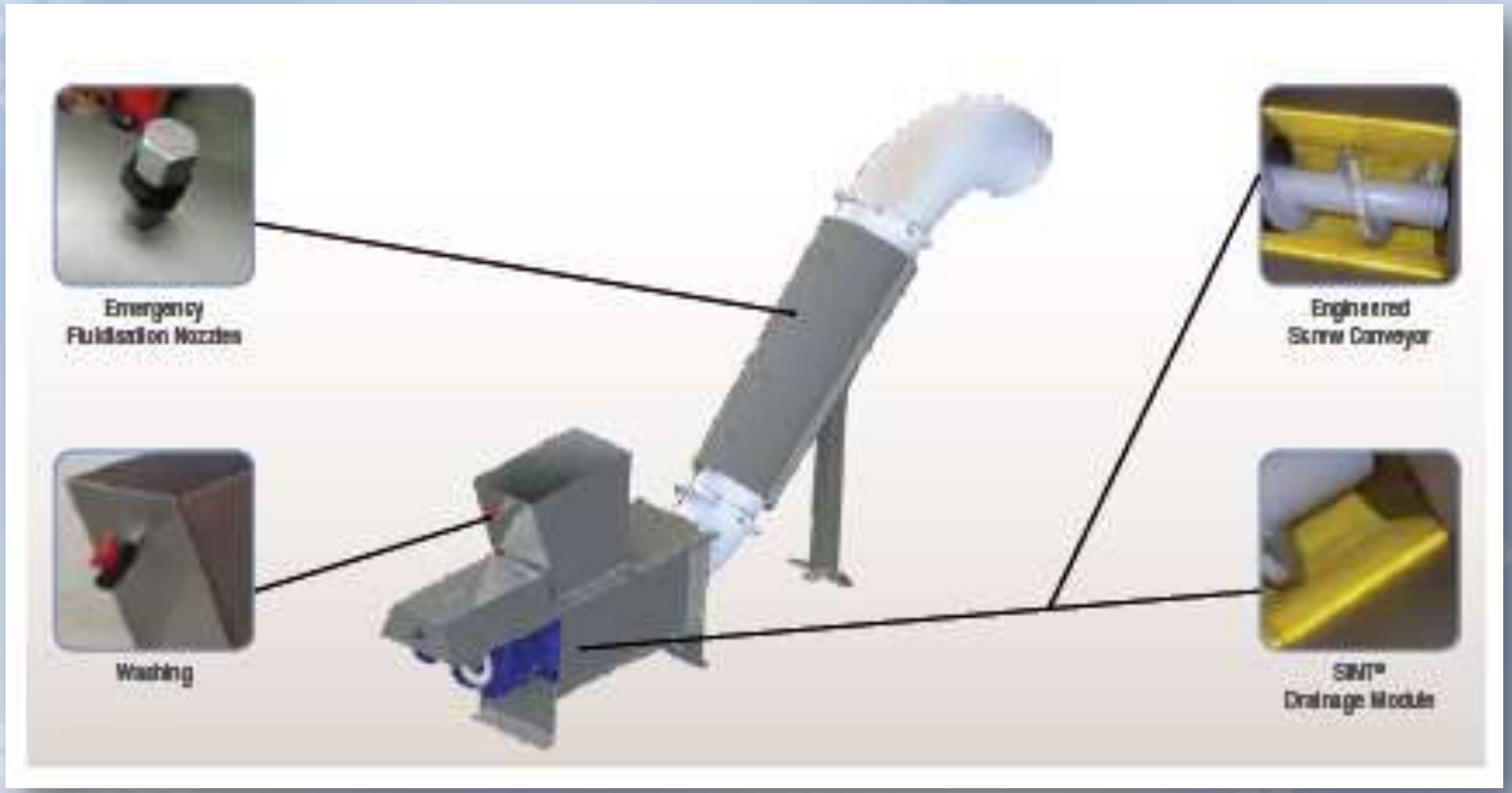
Screw Compactors

CLE

- **High Efficient de-watering**
- **Commonly known as “Duck Neck” compactor**

WASTECOM ™ CLE

Commonly known as "Duck Neck" compactor



Waste Water Treatment (8100 - 8200)

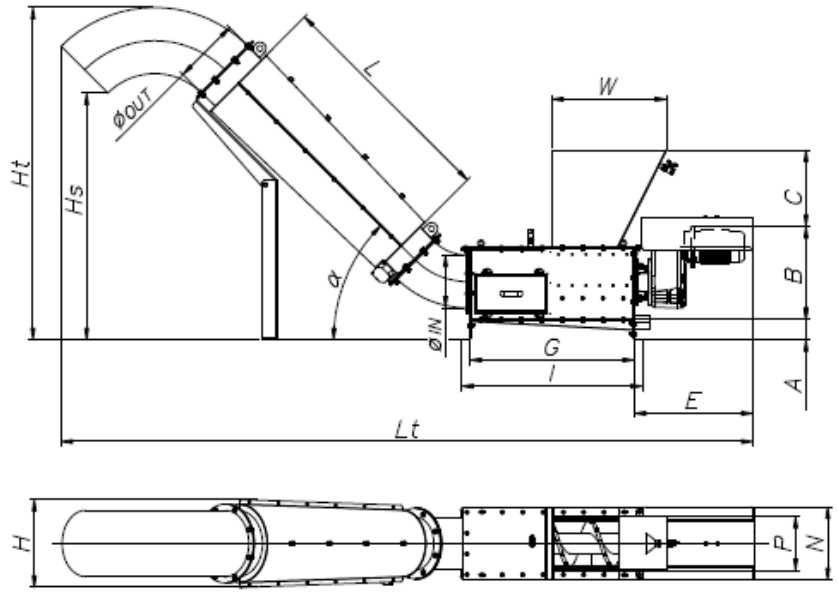
Main market needs:

- Reduction of screeningsvolume: > 50%
- Reduction of transportation/disposal costs
- Draining liquids to reduce odours

Main point:

- For Waste Water Treatment plants > 150,000 p.e. in general
- Screw compactor
- SINT™ drainage module: zero clearance between trough and screw
- Jagged screw: high removal rate with difficult materials
- Specialised machine for civil applications
- Easy maintenance

Waste Water Treatment (8100 - 8200)



Type	A	B	C	E	Ht	Hs	I	L	Lt	N	P	W	Ø IN	ØOUT
CLE 200	180	571	600	550	2,080	1,600	1,000-1,500	1,880	4,100-4,600	350	177	700-1,200	219	323
CLE 300	180	571	600	650	2,050	1,510	1,000-1,500	1,500	4,100-4,600	450	277	700-1,200	323	406
CLE 400	180	571	600	650	2,300	1,750	1,250-1,750	1,850	4,500-5,250	550	377	950-1,200	406	508

For reference only: for detailed drawings please contact the manufacturer

Dimensions in mm

... in Tech-Info and drawings:

- Overall dimensions
- Compacting performance
- Feeding performance
- Drive information

MODEL	Flow rate (m^3/h)	Installation power kW	Hopper capacity (l)
CLE 200	1.5 - 2.0	1.5	70 ÷ 140
CLE 300	2.5 - 3.0	2.2	100 ÷ 200
CLE 400	4.0 - 4.5	3.0	200 ÷ 330

Main information for **correct sizing**:

Type of material to handle:
e.g.: screenings of other solids
Organic matter removal is required?
e.g.: if we should apply or not our machine
Quantity
e.g.: define screw size (200, 300, 400mm)
How is the machine fed?
e.g.: define hopper size or length of drainage module
Place of installaton:
e.g.: with or without hopper, possible requirement for a conveyor
Combination of materials
e.g.: 304/304 SS, 304 SS/mild steel, etc.

Screw Compactors with **TRANSPORTATION**

CPS

$Q_{max.}$ = 12 m^3/h (4.7 cfm)

- **Efficient de-watering**
- **Self-adjusting outlet plug diaphragm**
- **Modular design facilitates access and parts replacement**

WASTECOM ™ CPS

WAMGROUP

- Solution for Compaction of solids after Vertical Bar Screen

Waste Water Treatment

Main market needs:

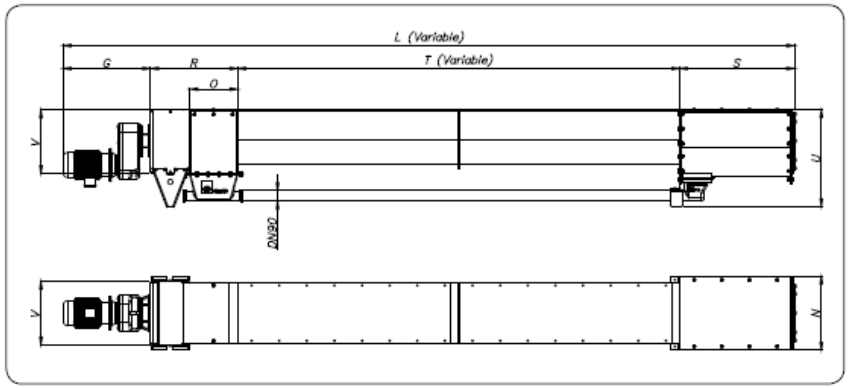
- Reduction of volume of screenings
- Reduction of transportation/disposal costs
- Draining liquids to reduce odours

Main points:

- Shaftless screw conveyor
- SINT™ drainage module
- SINT™ diaphragm with variable resistance
- Specialised machine for civil and industrial application
- Easy maintenance

Waste Water Treatment

SHIPPING DATA - *KOLLIDATEN- COLISAGE - INGOMBRO*



Type	R	T		L		S	G	U	V	N	O		kW
		Min	Max	Min	Max								
CPS 200	490	1000	6000	2660	7660	530	640	610	320	485	230	5° - 25°	1.5
CPS 300	610	2000	8000	4090	12090	780	700	750	440	585	330	5° - 25°	2.2
CPS 400	790	2000	10000	4575	12575	1035	750	870	575	705	430	5° - 25°	4

dimensions in mm

Standard machine - *Serienmäßige Maschine* - Machine de série - *Macchina di serie*

Type	T
CPS 200	2000
CPS 300	3000
CPS 400	4000

dimensions in mm

PERFORMANCE - LEISTUNG - PERFORMANCES - PRESTAZIONI		
Type	Throughput Rate - Durchsatzmenge - Débit - Portata	
	[l/s]	[m3/h]
CPS 200	0.55	2
CPS 300	1.39	5
CPS 400	2.22	8

… in technical manual:

- Overall dimensions
- Compacting performance
- Feeding performance
- Electric motor details
- Gear reducer details

Main information for **correct sizing**:

Material to handle:

e.g.: screenings, etc. define choice of bars or liner and type of screen mesh

Quantity:

e.g.: define screw size (200, 300, 400mm)

Length of installation:

e.g.: define total length of the machine

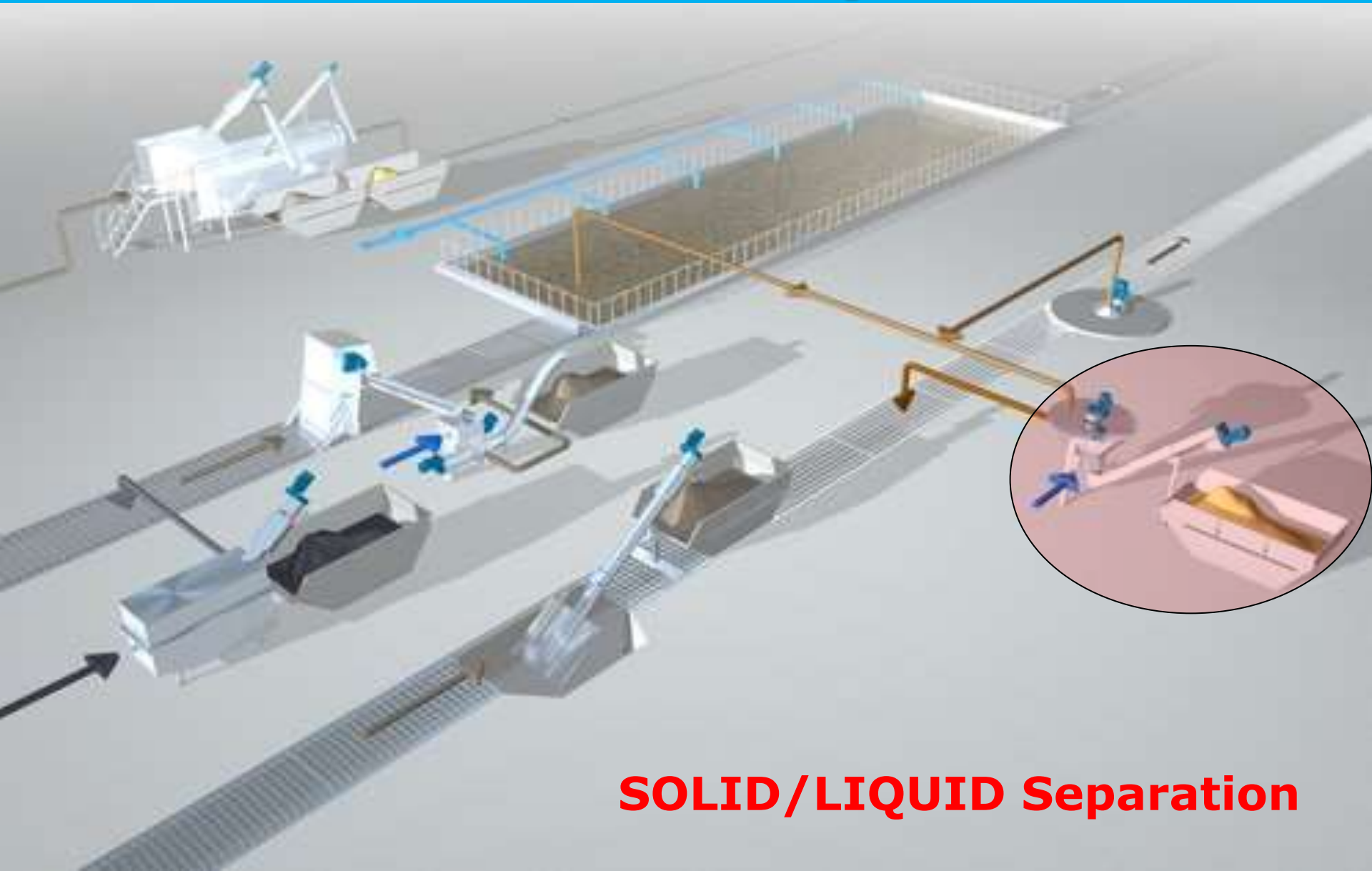
Combination of materials:

e.g.: 304/304 SS, 304 SS/mild steel, etc.

Angle and place of installation:

e.g.: avoid risk of incorrect installation and claim

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

Grit Separators

GRITSEP® DS

$Q_{max.}$ = 36 l/s (76 cfm)

- **A CLASSIC !!!!**
- **Gravity Grit Classifier**
- **Shaftless Grit Classifier**

GRITSEP ™ DS

Settling tank

Safety Valve

Water Injection

Sand Washing

Waste Water Treatment

Main market needs:

- 90% grit removal
- High dryness of materials extracted
- Easy interface with standard grit chambers

Main point:

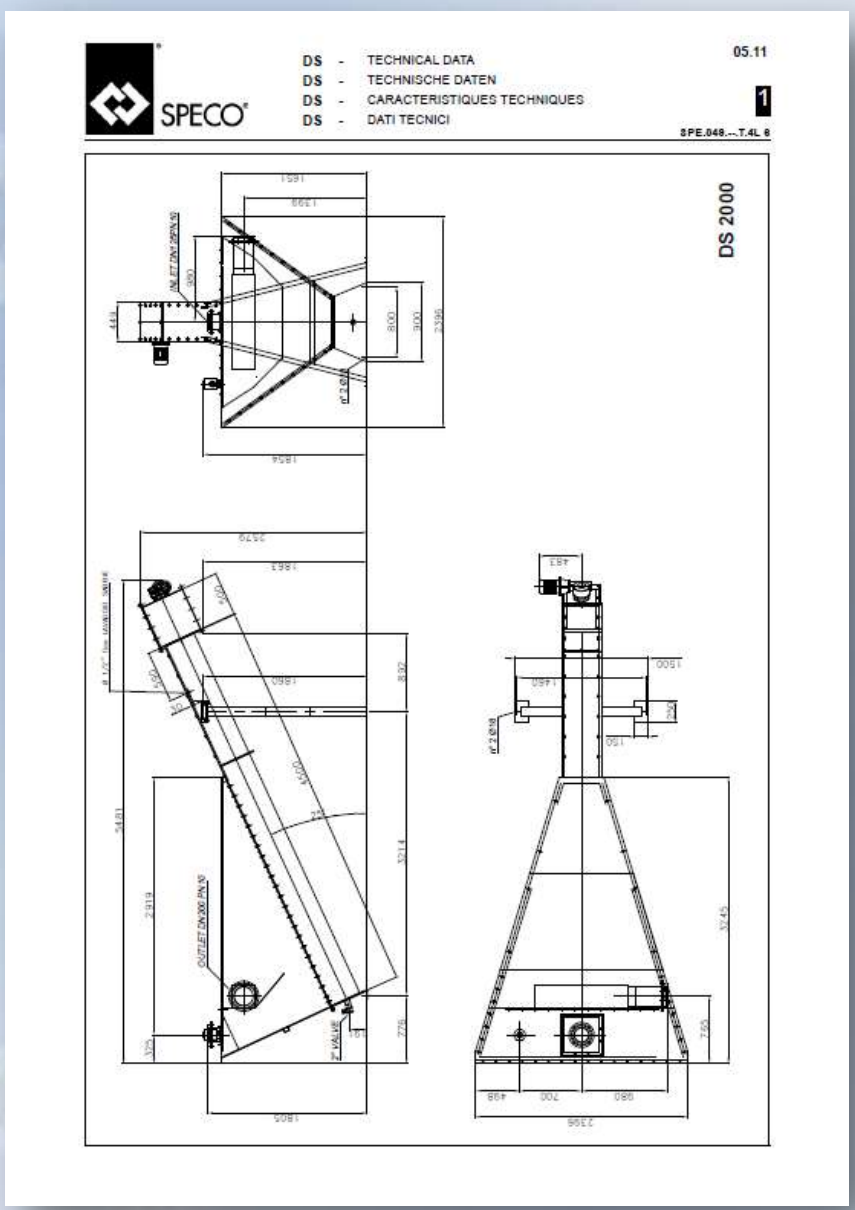
- In general for all Waste Water Treatment plants
- Heavy-duty shaftless screw conveyor
- SS bars or plastic/metal liner for zero clearance between trough and screw
- Low RPM for high removal rate
- Specialised machine for civil applications
- Easy maintenance

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment



… in Technical Manual:

- Overall dimensions
- Extraction performance
- Feeding performance
- Motor information
- Gear reducer information

DS Model *Modell DS* Modèle DS *Modello DS*	Flow Rate *Fördermenge* Débit *Portata* (l/sec)	Potential quantity of sand *Potentielle Sandmenge* Potentialité transport de sable *Potenzialità trasporto sabbie*	
		(m^3/h)	*(dm^3/sec)*
DS400	*5.00*	*0.22*	*0.06*
DS1000	*8.33*	*0.29*	*0.08*
DS2000	*22.2*	*0.29*	*0.08*
DS3400	*27.8*	*0.29*	*0.08*
DS4000	*36.0*	*1.30*	*0.36*

Main information for a **correct sizing**:

Type of material to handle:

e.g.: grit

Organic matter removal required?

e.g.: should apply our machine or not?

Flow rate and amount of grit to remove:

e.g.: define the size of the DS (400, 1000, 2000, 3400, 4000)

Place of installaton:

e.g.: to a grit chamber

Combination of materials

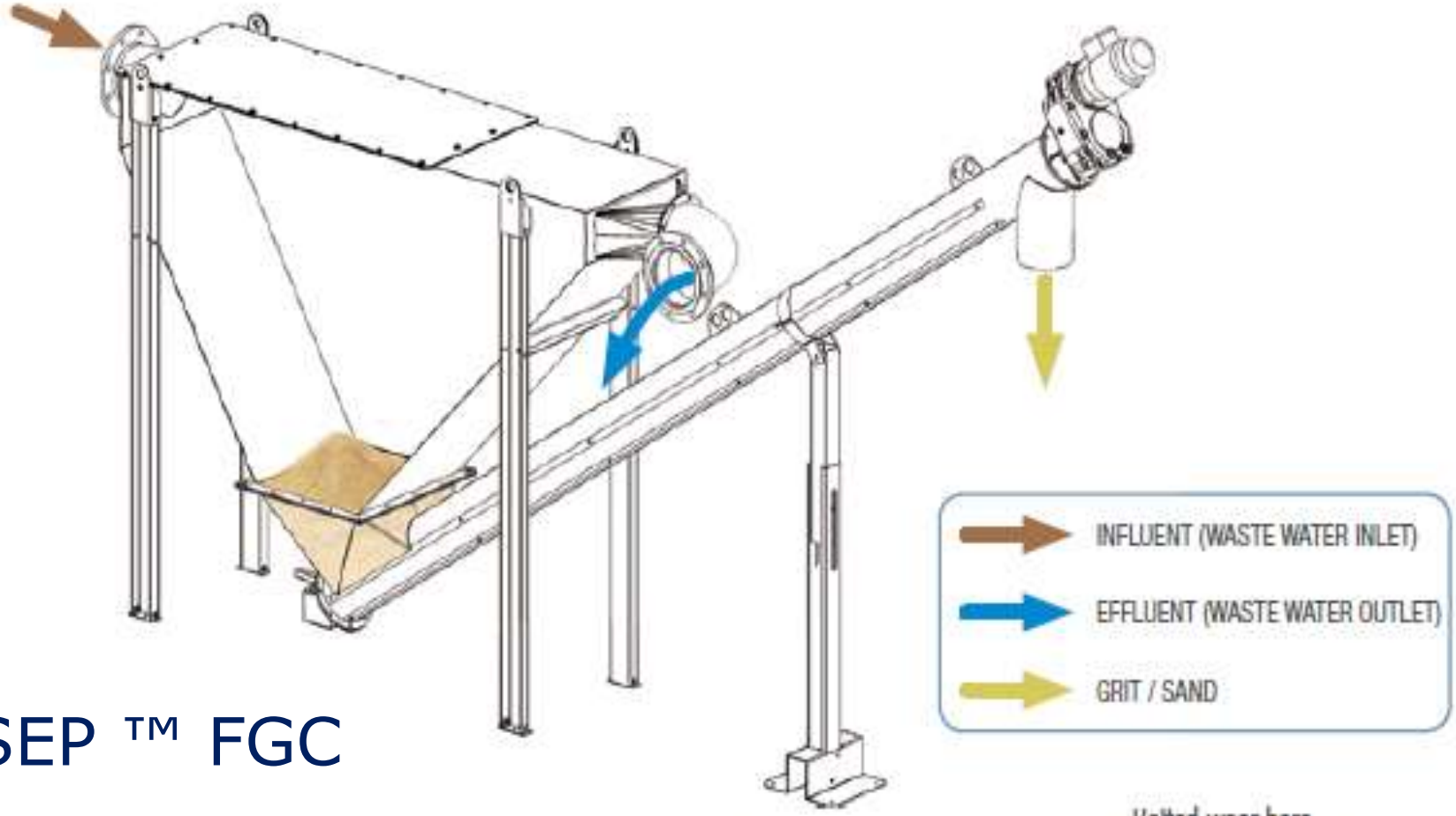
e.g.: 304/304 SS, 304 SS/mild steel, etc.

Continuous Grit Separators

GRITSEP ™ FGC

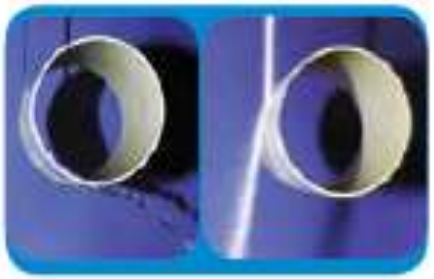
- **Fluid Dynamic grit classifier**
- **Special fluid dynamic separation surface**
- **Shaftless screw**

Waste Water Treatment



GRITSEP ™ FGC

Fluid dynamics



Extracting screw

SINT™ module

Bolted wear bars
(external view of trough)

Waste Water Treatment

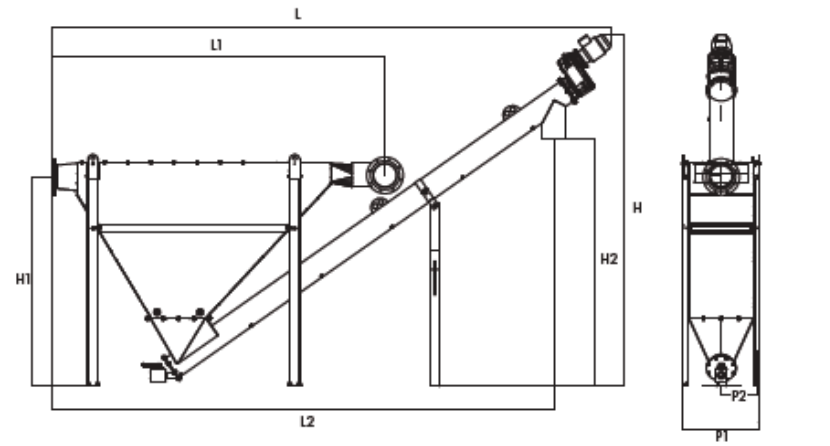
Main market needs:

- 90% grit removal
- High dryness of extracted materials
- Easy interface with standard grit chambers

Main points:

- Higher sedimentation rate and removal: 95%
- System self-adjusting to different flow rates
- Heavy-duty shaftless screw conveyor
- SS bars or fixed pipe for high extraction efficiency
- Specialised machine for civil applications
- Easy maintenance

Overall Dimensions



Type	L	L1	L2	H	H1	H2	P1	P2
FGC 005	4,300	2,245	3,600	2,500	1,450	1,650	431	220
FGC 008	4,300	2,286	3,600	2,500	1,450	1,650	631	320
FGC 015	5,400	3,125	4,700	3,000	1,950	2,150	716	365
FGC 025	5,400	3,200	4,700	3,000	2,000	2,150	816	415
FGC 036	5,400	3,275	4,700	3,000	2,000	2,150	1,016	330

Dimensions in mm

Maximum Flow Rate		Average Sand Extraction
[m³/h]	[dm³/s]	[dm³/s]
018	5	0.18
030	8	
054	15	
090	25	
130	36	

… in Tech-Info and drawings:

- Overall dimensions
- Extracting performance
- Feeding performance
- Motor information
- Gear reducer information

Main information for a **correct sizing:**

Type of material to handle:

e.g.: grit

Organic matter removal required?

e.g.: should we apply our machine or not?

Flow rate and amount of grit to remove:

e.g.: define FGC size (005, 008, 015, 025, 036)

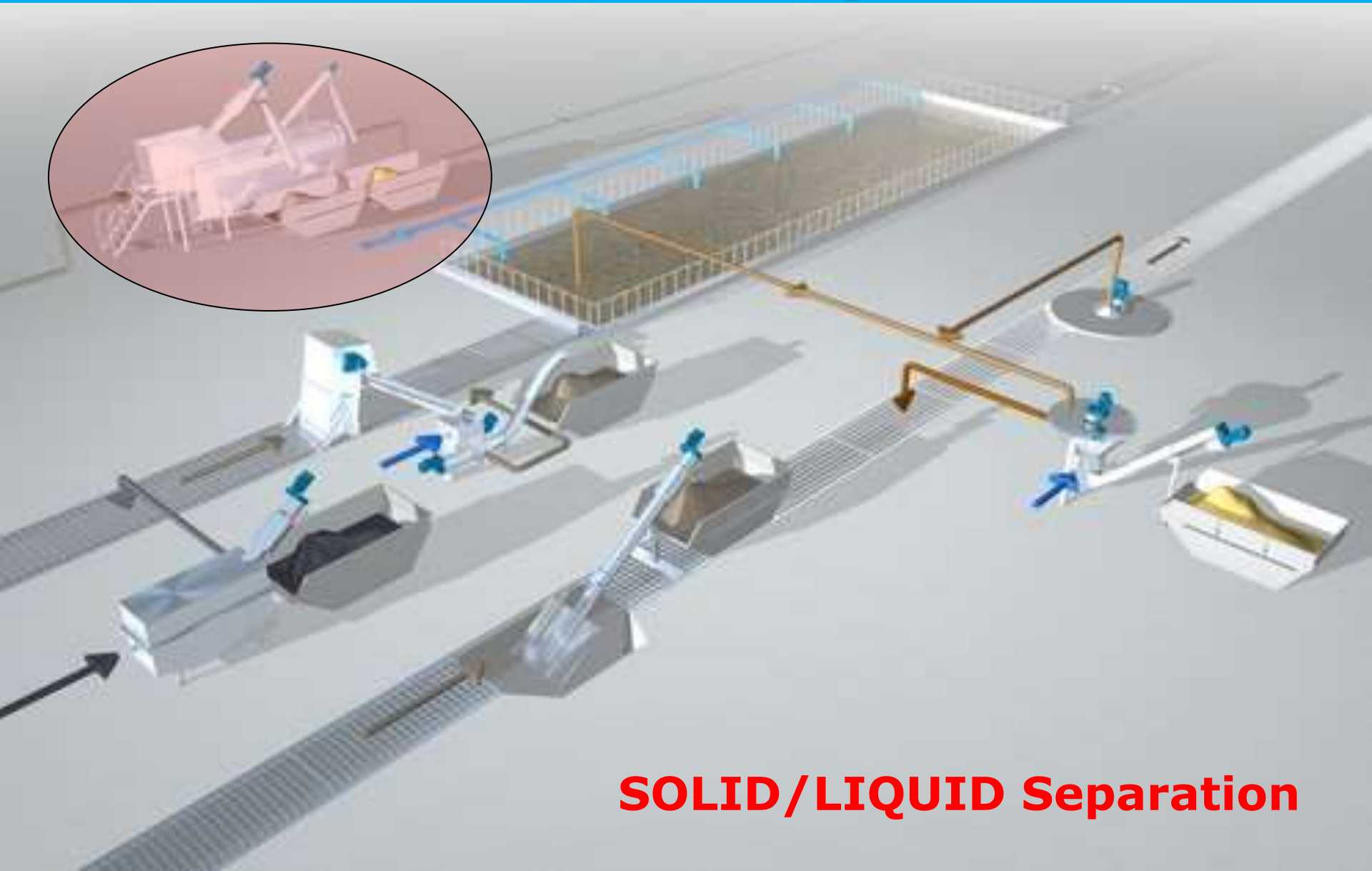
Place of installaton:

e.g.: grit chamber

Combination of materials:

e.g.: 304/304 SS, 304 SS/mild steel, etc.

Mechanical Preliminary Treatment



SOLID/LIQUID Separation

Mechanical Preliminary Treatment

Combined Mechanical Effluent Pre-Treatment Plants

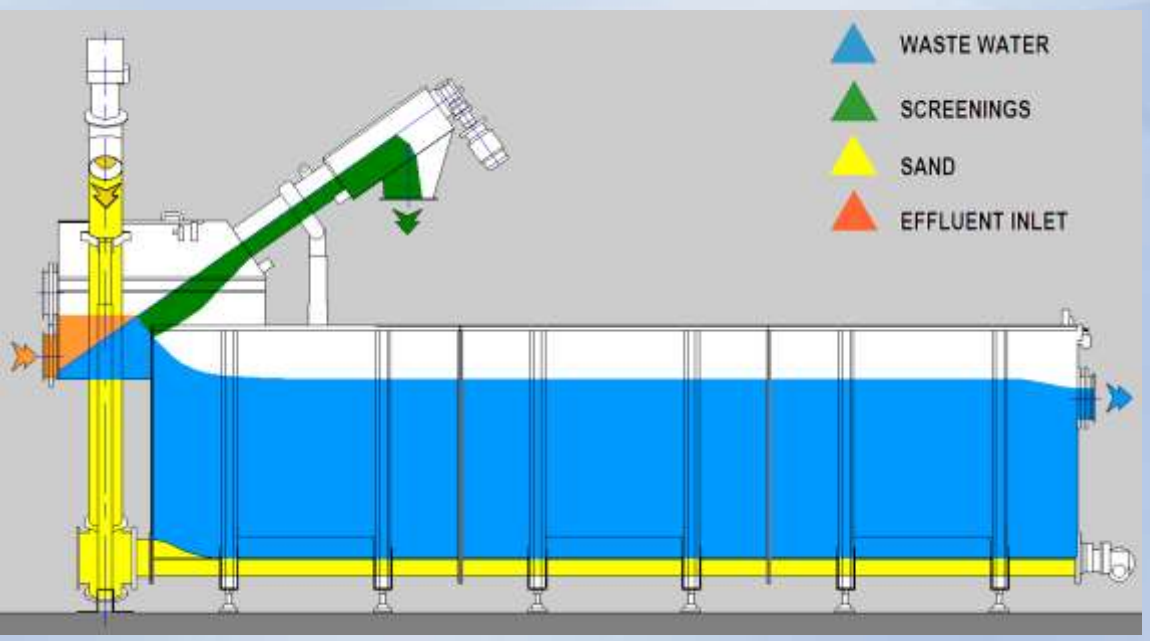
WASTEMASTER® TSF V01

Q = 30 ~ 300 l/s (63 ~ 635 cfm)

- **Highly efficient solids-liquid separation**
- **High flow rates and separation capacity**
- **Excellent price-performance ratio**

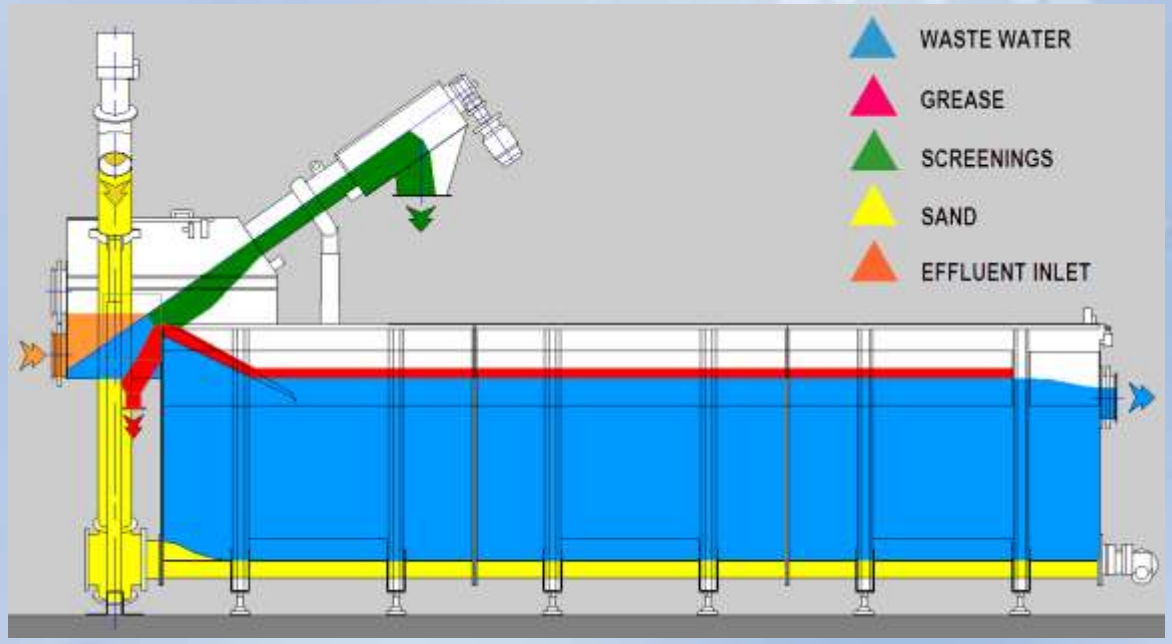
WASTEMASTER®
TSF V01

Waste Water Treatment

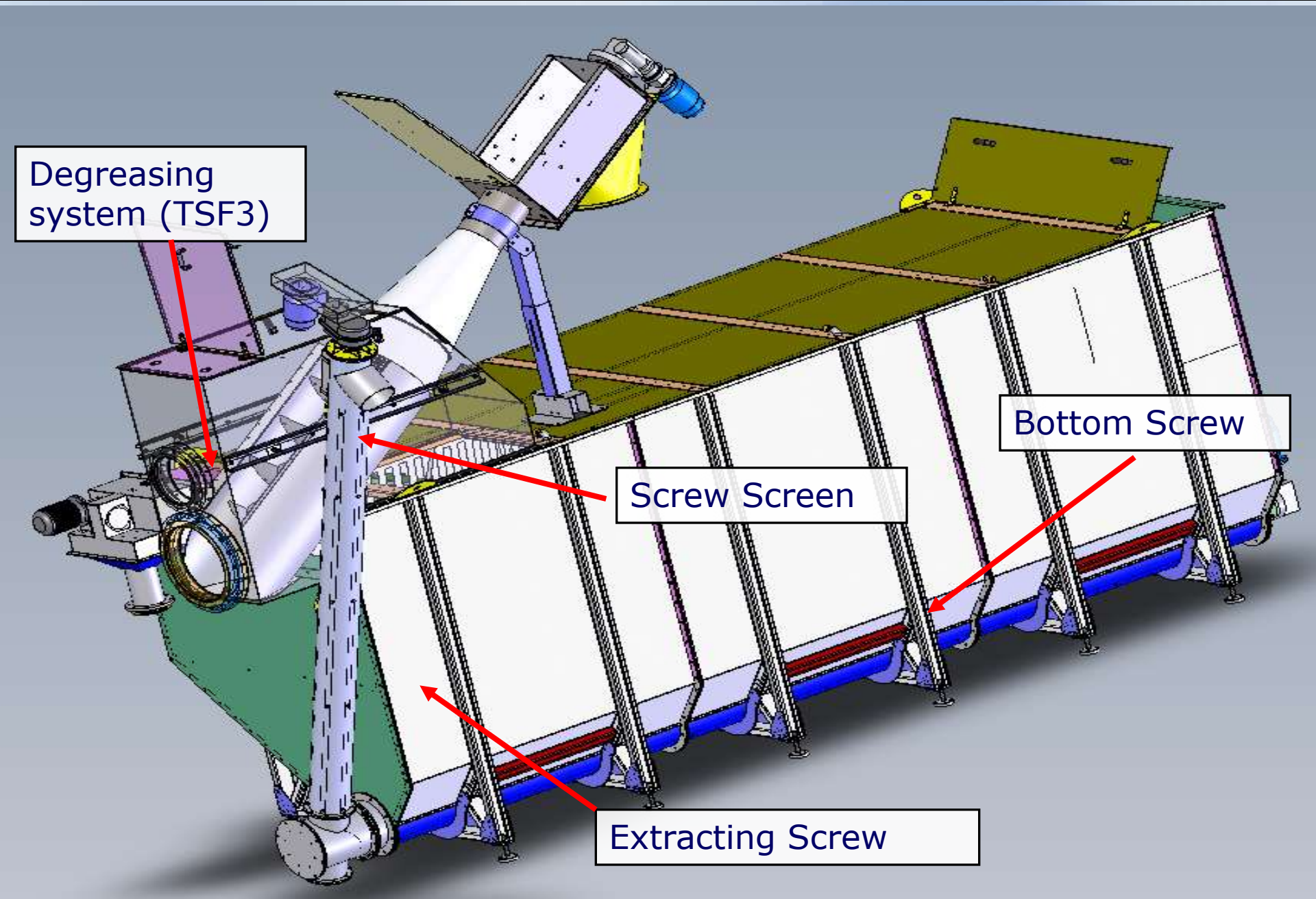


TSF 2 (without grease removal system)

TSF 3 (with grease removal system)



Waste Water Treatment

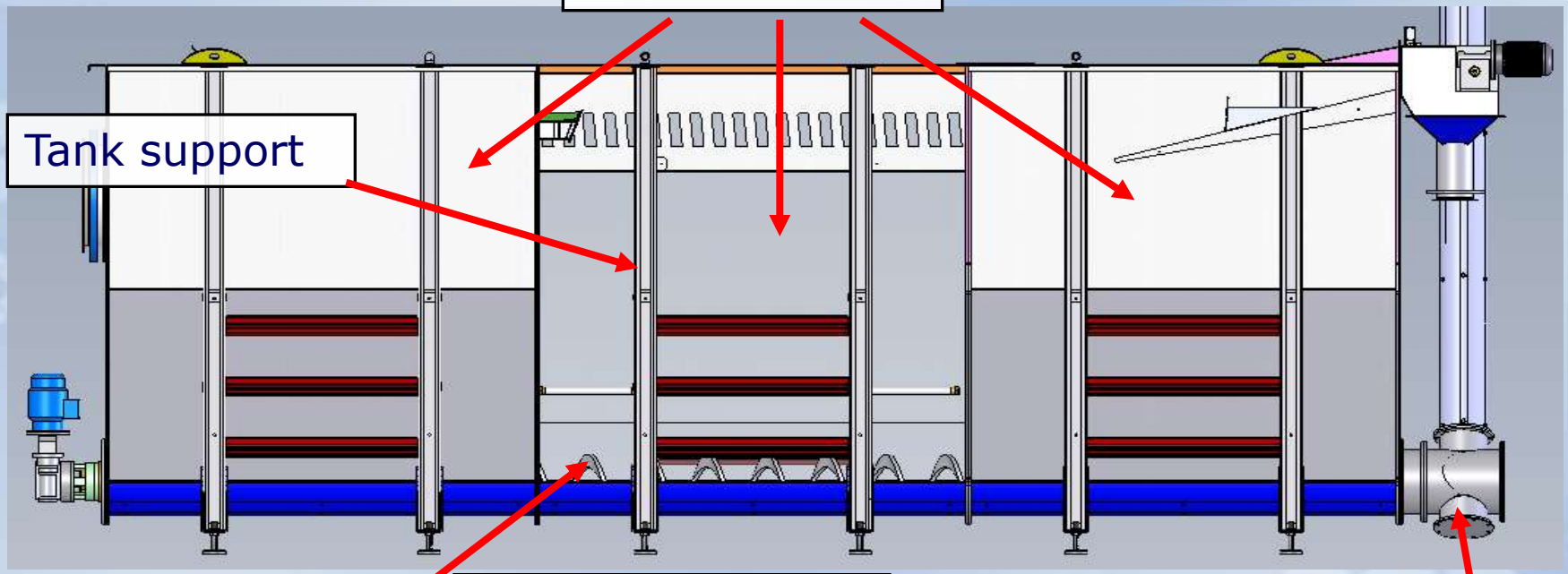


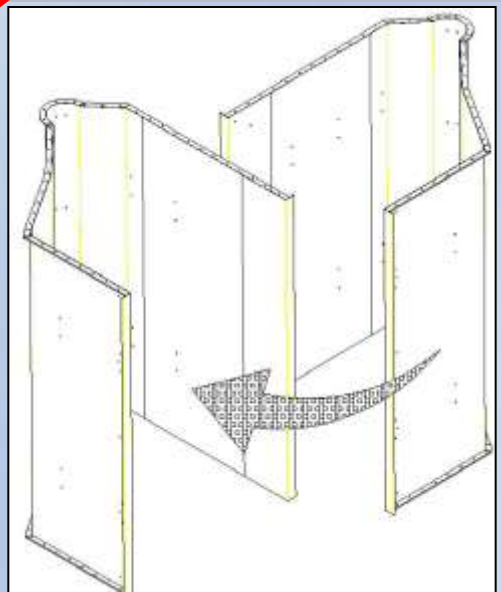
Waste Water Treatment

Modules

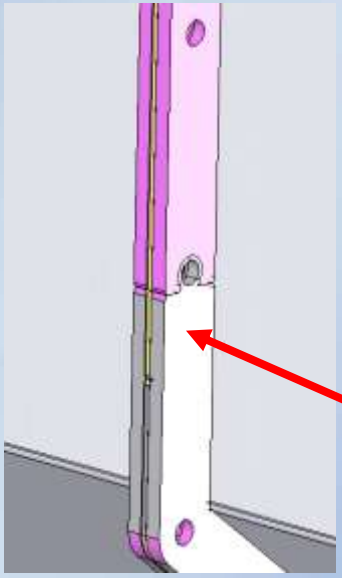
Tank support

Bottom Screw





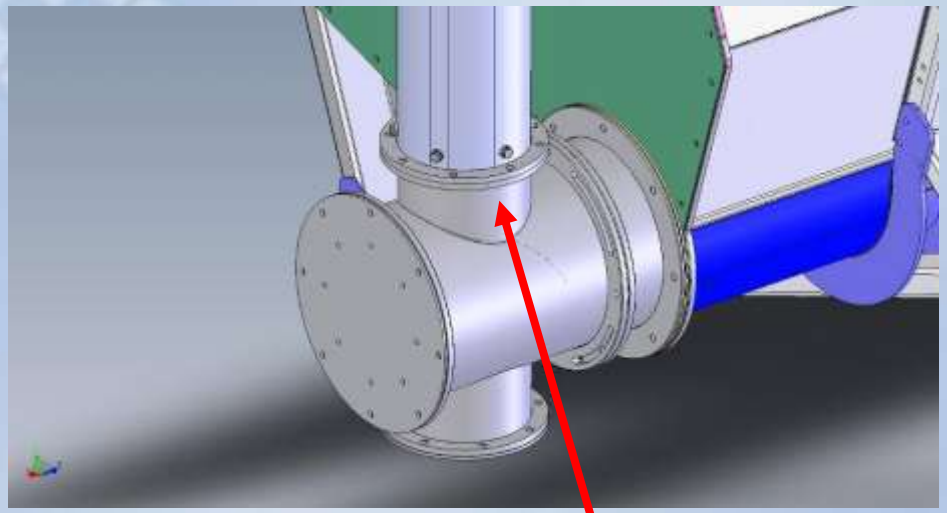
Modules ready for transport



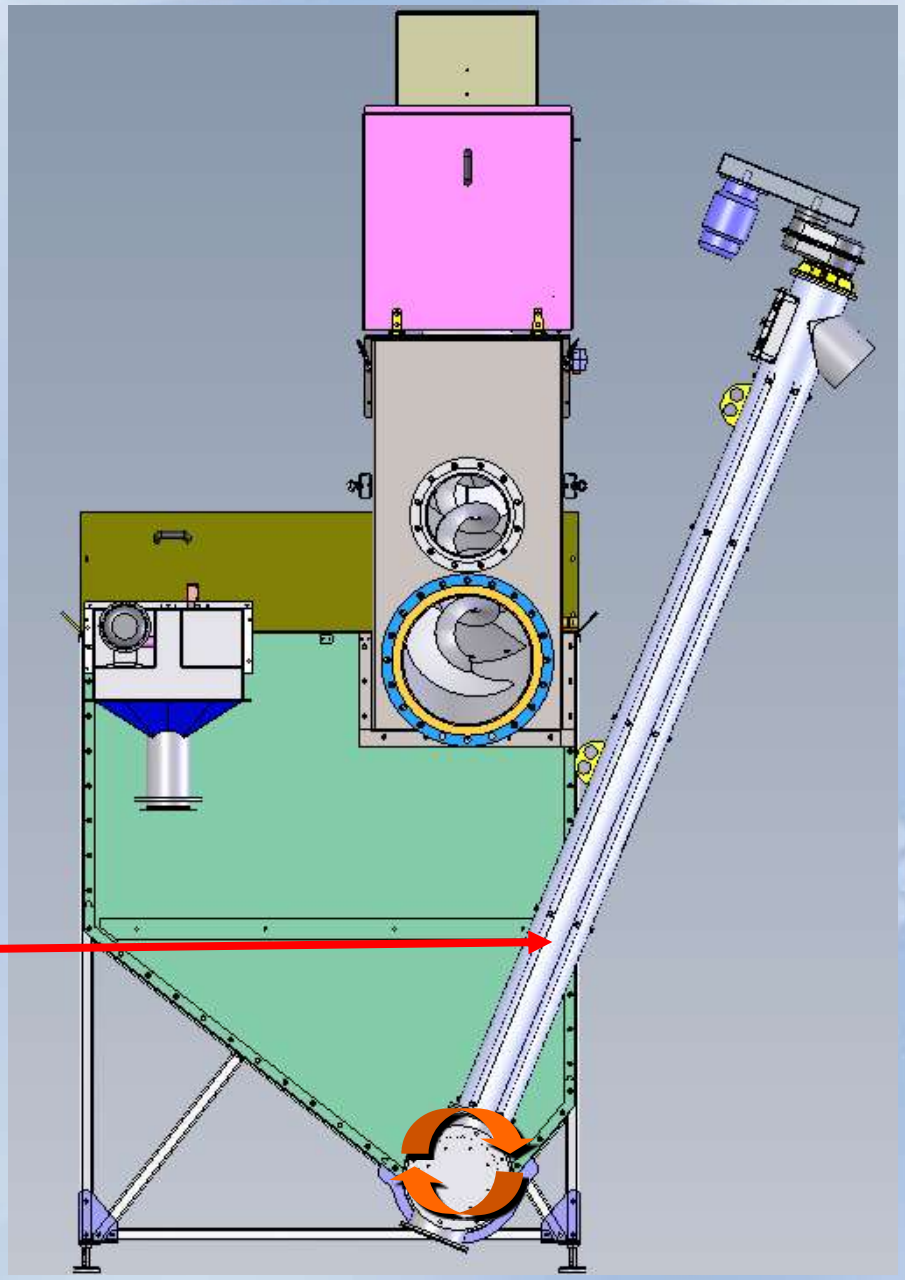
Extracting Screw

Flanges + gasket

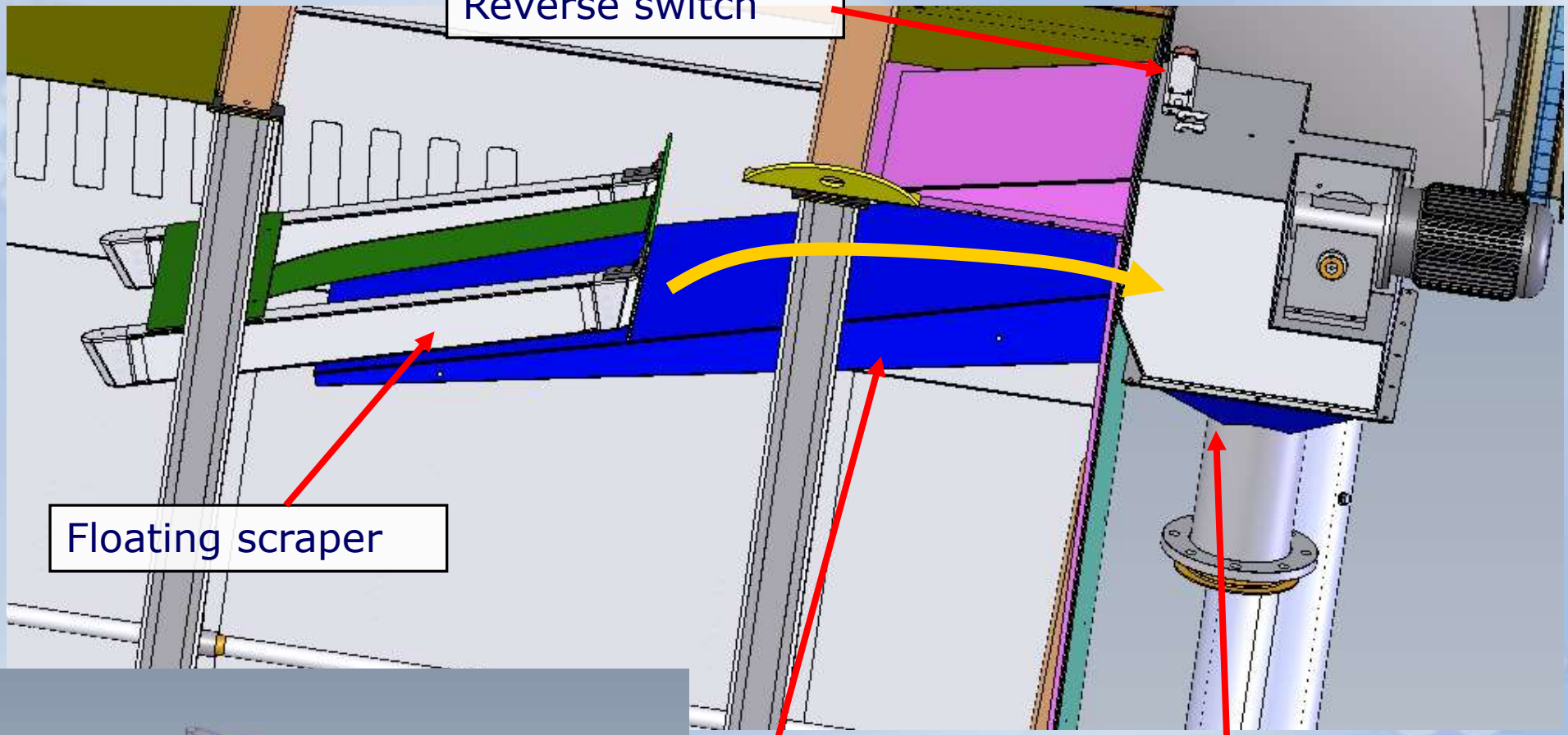
Waste Water Treatment



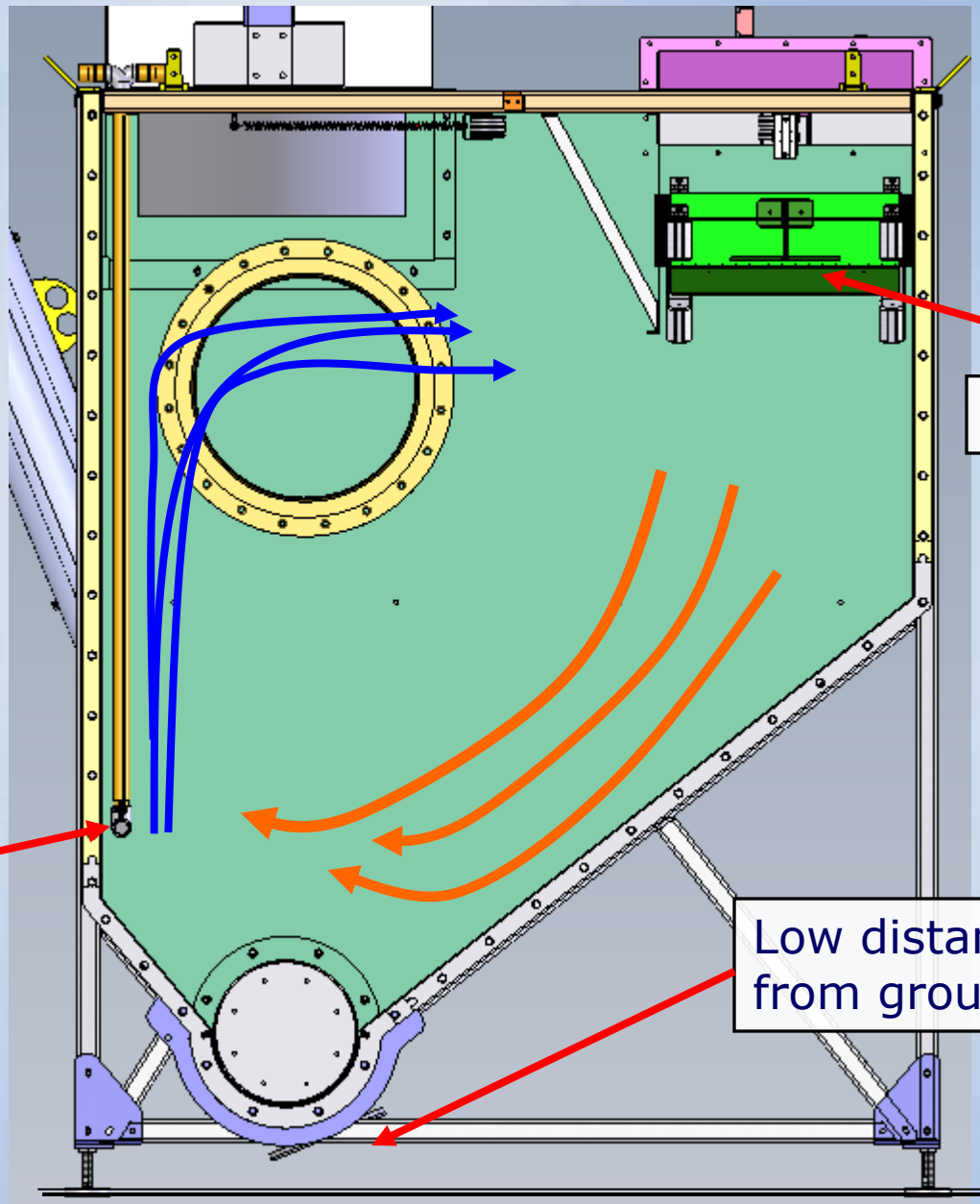
Extracting Screw



Waste Water Treatment



Waste Water Treatment



TSF 2-3 RANGE

TSF 2/3			**FLOW RATE*	
SIZE	*Module*	*Tank Lenght*	*Min l/s*	*Max l/s*
S 1 0	1	2 m	5	13
S 2 0	2	4 m	12	30
M 1 0	2	4 m	25	39
M 2 0	3	6 m	35	60
M 3 0	4	8 m	60	85
L 1 0	4	8 m	80	115
L 2 0	5	10 m	110	145
L 3 0	6	12 m	140	175
L 4 0	7	14 m	170	205

* 95% of sand sedimentation with a grain size of 0,2 mm and a Specific Gravity of 2,60-2,65 w/v

Waste Water Treatment

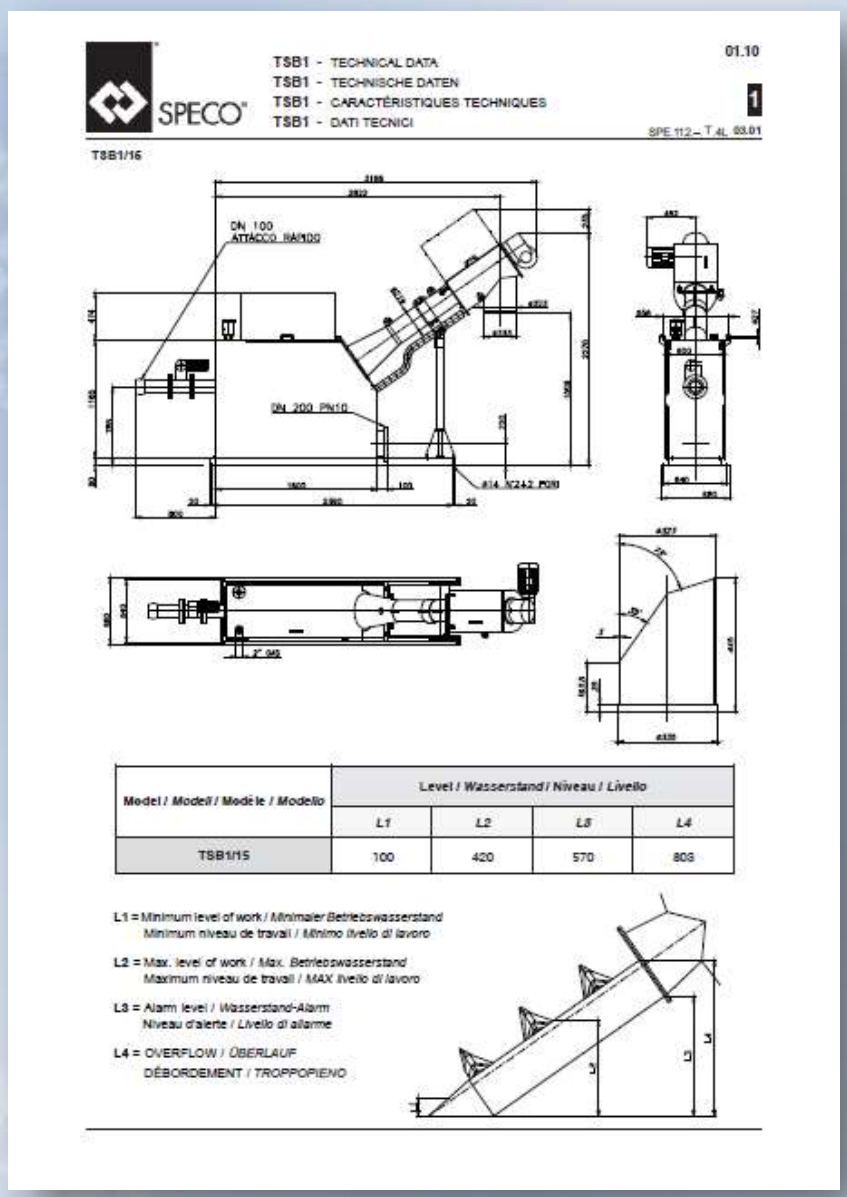
Main market needs:

- Modular design
- Possible on site assembly
- Best footprint-net volume ratio
- Durable heavy duty shaftless screws
- Self-adjusting scraper device
- Bolted wear bars
- Durable polymer brushes

Selling points:

- Machine designed for high density waste water
- Different configurations for both small and large tankers
- Heavy-duty shaftless screw conveyor with high resistance brushes and bearing support for cleaning and protecting the screen basket

Waste Water Treatment



SPECO

TSB1 - TECHNICAL DATA
TSB1 - TECHNISCHE DATEN
TSB1 - CARACTÉRISTIQUES TECHNIQUES
TSB1 - DATI TECNICI

01.10

1

SPE 112 – T 4L 03.01

T8B1/16

DN 100
ATTACCO IMHOD

DN 200 PN10

Model / Modell / Modèle / Modello	Level / Wasserstand / Niveau / Livello			
	L1	L2	L3	L4
TSB1/15	100	420	570	808

L1 = Minimum level of work / Minimaler Betriebswasserstand
Minimum niveau de travail / Minimo livello di lavoro

L2 = Max. level of work / Max. Betriebswasserstand
Maximum niveau de travail / MAX livello di lavoro

L3 = Alarm level / Wasserstand-Alarm
Niveau d'alerte / Livello di allarme

L4 = OVERFLOW / ÜBERLAUF
DÉBORDEMENT / TROPPOPIENO

… in Technical Manual and drawing:

- Overall dimensions (drawings)
- Extracting performance
- Feeding performance
- Motor information
- gear reducer information

TSB1 Model / Modell TSB1 / Modèle TSB1 / Modello TSB1	DRILLED PLATE SCREENS / LOCHBLECHSIEBE / CRIBLE PERCES / VAGLIO FORATO	L1 (m)
	Ø5	
TSB1 / 15	15	0.38
TSB1 / 30	30	0.52

TSB1 Model / Modell TSB1 / Modèle TSB1 / Modello TSB1	dm³/sec
TSB1 / 15	0.18
TSB1 / 30	0.33

Main information for **correct sizing**:

Type of material to handle:

e.g.: septic pit waste water

Quality of material?

e.g.: screen mesh, difficult environmental conditions

Flow rate, outlet side:

e.g.: define size of TSB 1 (15 or 30)

Place of installaton:

e.g.: existing channel or dedicated tank

Combination of materials

e.g.: 304/304 SS, 304 SS/mild steel, 316/316 SS, etc.

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

Waste Water Treatment

THANK YOU