



## Decanter UCD 305

Technical data | Dewatering of municipal and industrial waste water sludge

The decanter UCD 305 from GEA is a continuously operating horizontal solid-wall centrifuge for dewatering requirements of industrial and municipal waste water sludge. The frame is of open design with gravity discharge of the clarified phase.

### Features

- All parts coming into contact with the product are made of CrNiMo stainless steel
- 3-phase AC motor for controlled torque starting in a star-delta circuit or via frequency converter
- Lowest power consumption of  $< 1 \text{ kW/m}^3$
- Highest g-force for higher solids output
- Adjustable bowl speed via VFD (option)
- Automatic adjustment of differential speed via VFD
- In-line secondary motor
- Belts for main drive motor only

### Advantages

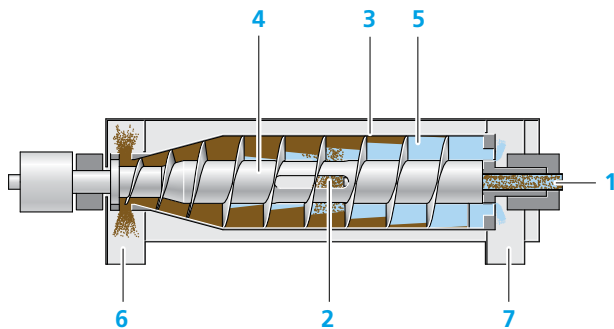
- Easy installation
- Easy operation and maintenance
- Low space requirement (easy retrofitting)

### Additional equipment (at extra cost)

- Control unit for automatic operation
- Tools
- Bearing temperature monitoring
- Vibration control
- Automatic grease lubrication
- Set of spare parts
- Liquid and solids chutes
- Solids gate valve

# Technical Data UCD 305

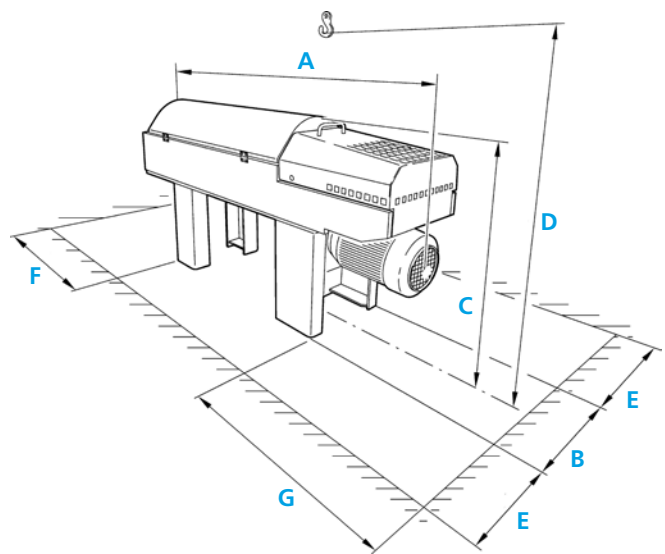
## Operating principles and constructional features



- 1 Product feed
- 2 Distributor
- 3 Bowl
- 4 Scroll
- 5 Separation chamber
- 6 Solids discharge
- 7 Discharge of the clarified liquid phase

Bowl	
Diameter	300 mm
L/D ratio (angle)	4.0
Speed	max. 4500 rpm
g-force (z)	max. 3400 g
Comparative capacity	20,000 l / h
Bowl drive	
Rating	15 kW
Speed at 50 Hz / 60 Hz	3000 rpm / 3600 rpm
Scroll drive	
Rating at 50 Hz	2.2 kW
Shipping data	
Decanter weight	max. 1800 kg
Case dimensions in mm	2800 x 1000 x 1500
Shipping weight	gross 2300 kg

### Dimensions in mm (inch)



Min. lifting capacity of trolley hoist for service and maintenance 500 kg

A	B	C	D
2500 (99)	600 (24)	1000 (39)	>1350 (53)
E	F	G	
>500 (20)	>1500 (59)	>1200 (47)	

Components	Standard	Option
Bowl and scroll	Stainless steel CrNiMo	–
Liquid outlet	Free	Centripetal pump
Flight hard facing	Tungsten carbide	Sintered tungsten carbide tiles
Solids outlet ports	Exchangeable	–
Seals, inner bearings	NBR (Perbunan)	PTFE/Viton
Drive	2-gear drive	Fixed differential speed
Solids discharge	–	Slide valve
Solids chute	–	Upon request
Liquid chute	–	Upon request

### GEA Germany

GEA Westfalia Separator Group GmbH

Werner-Habig-Straße 1  
59302 Oelde, Germany

Tel +49 2522 77-0  
Fax +49 2522 77-2950

sales.germany@gea.com  
gea.com