

BULK BIOMASS CONVEYING SYSTEM TCB



Description

TCB Biomass Conveying system is a complete screw conveyor system which extracts the bulk fraction of the biomass from the mixer/hopper, lifting and charging it into the digester of the Biogas production plant.

The system consists of:

- 1 BFS Horizontal Screw Feeder
- 2 BVS Vertical Screw Conveyor
- 3 BIS Injector Screw

BFS Feeder

It receives the material from the mixer/hopper and transfers it to the BVS Vertical Screw.

The BFS Feeder is a discharging equipment provided with optional inlet spouts pre-engineered to suit the most commonly used mixers on the market.

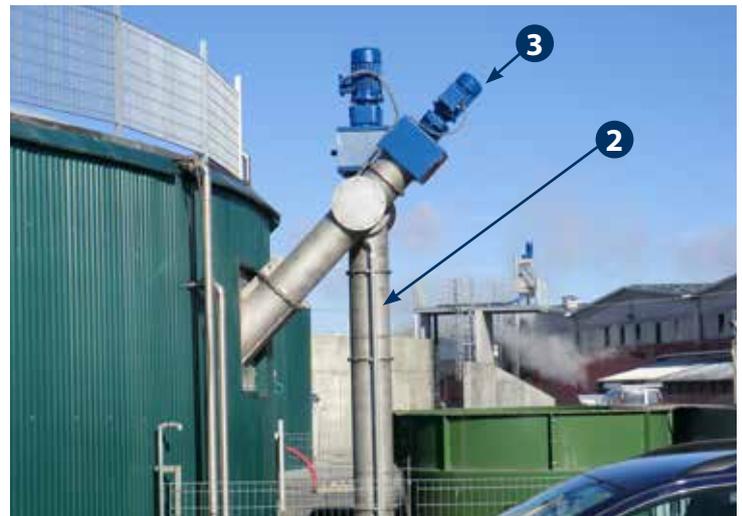
BVS Vertical Screw

It receives the material from the BFS Screw Feeder by a frontal discharge.

BVS Vertical Screw lifts vertically the biomass to the appropriate height for feeding the BIS Injector Screw.

BIS Injector Screw

This equipment collects the bulk material from the BVS Vertical Screw and injects it into the digester under the liquid level.



Technical features and performance

- Modular versatile system
- Facilitates inspection
- Vertical Screw Conveyor with load-bearing structure
- Extra-thick heavy-duty helicoid flighting manufactured from highly resistant 304 stainless steel
- Standard connection for mixers/hoppers
- Highly efficient conveying

Benefits

- ✓ Clean and silent
- ✓ Versatile and suitable for conveying various organic materials
- ✓ Sturdy fabrication and mechanical components
- ✓ Small footprint
- ✓ Standard industrial product

Throughput rate table

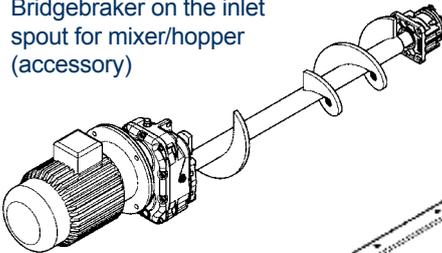
Ø	m ³ /h
200	12
300	20
400	50

Components, options and accessories

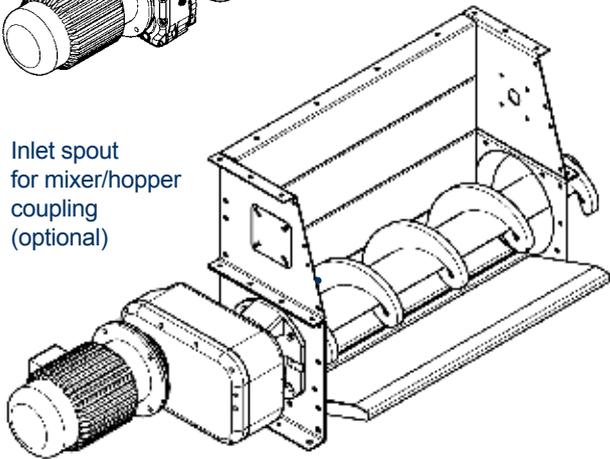
Extra-thick helicoid flighting heavy-duty manufactured from highly resistant steel



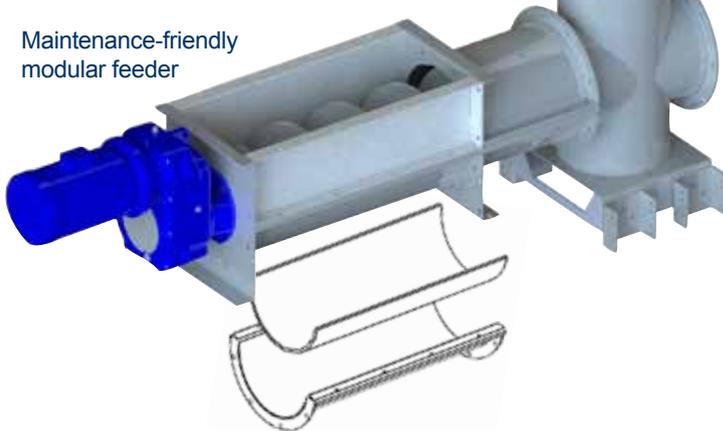
Bridgebraker on the inlet spout for mixer/hopper (accessory)



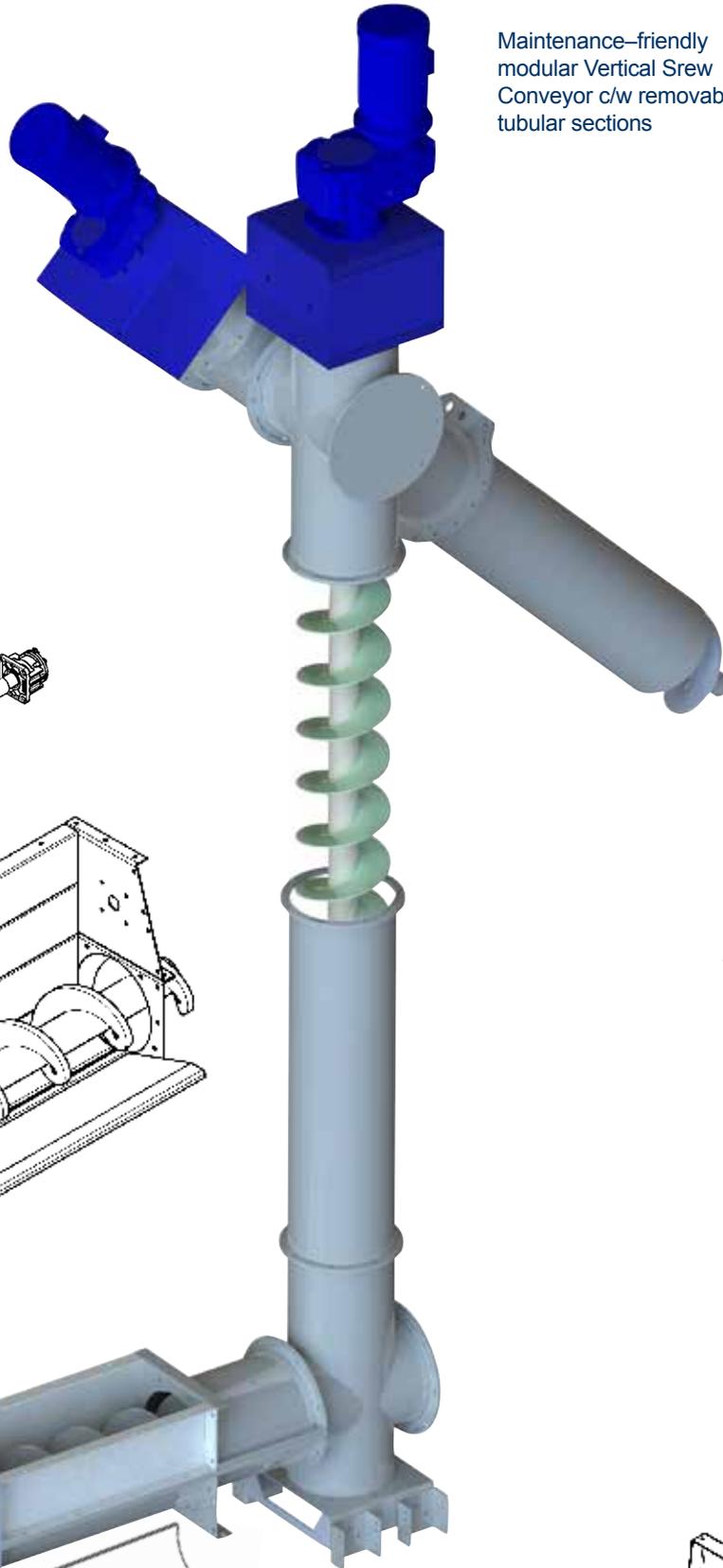
Inlet spout for mixer/hopper coupling (optional)



Maintenance-friendly modular feeder



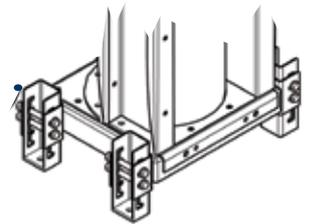
Maintenance-friendly modular Vertical Screw Conveyor c/w removable tubular sections



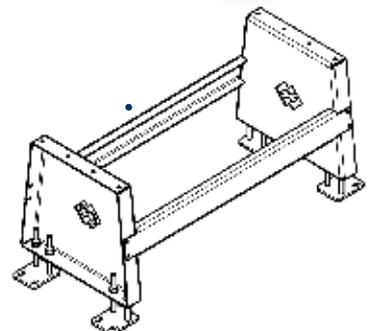
Injector screw support (accessory)



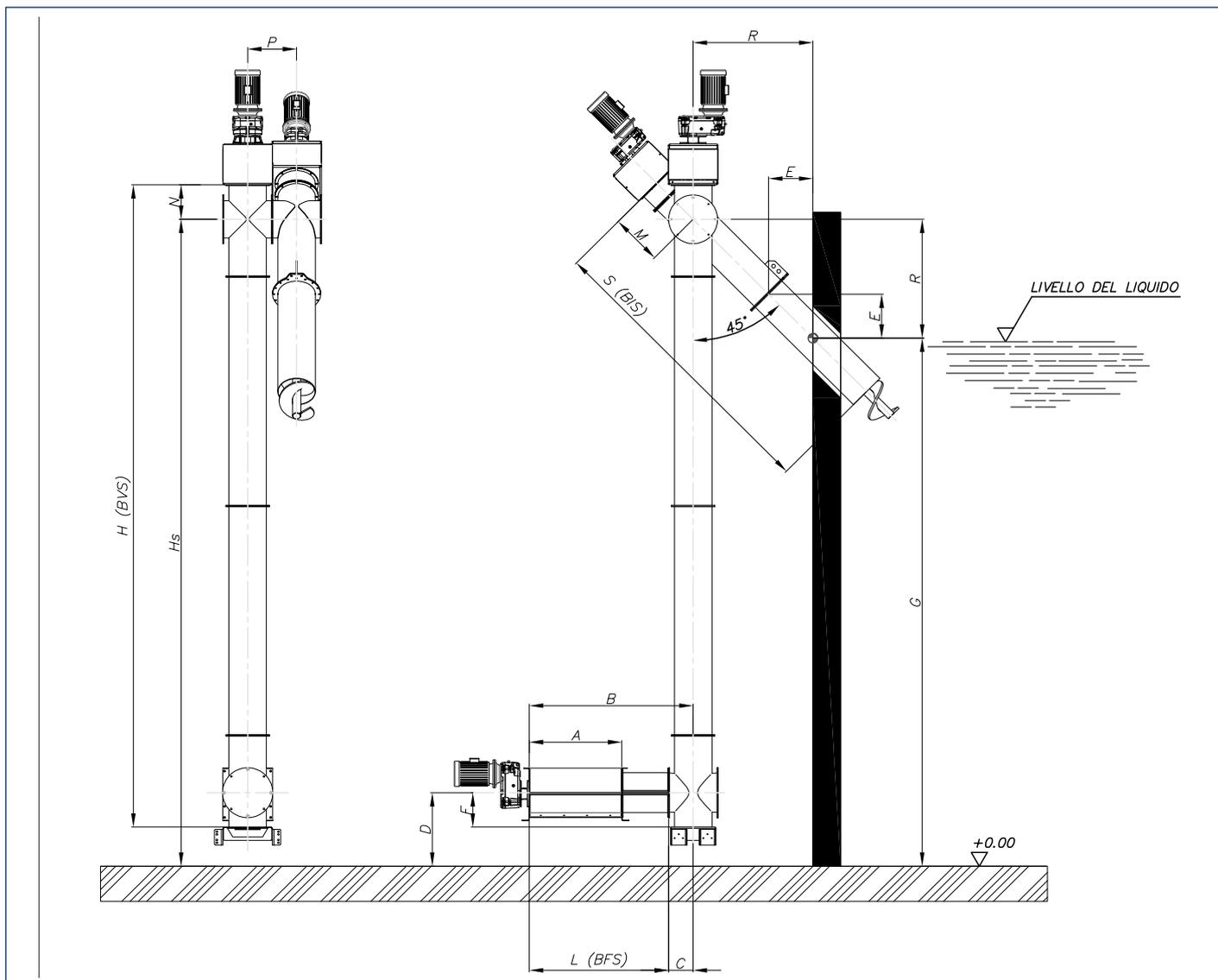
Adjustable feet for BVS (accessory)



Support for BFS (accessory)



Dimensions



BFS	A		B		L	
	min	max	min	max	min	max
200	1,000	3,500	1,215	6,215	1,500	6,000
300			1,265	6,265		
400			1,265	6,265		

D = 800 (standard version foot)

L = B - C : length from flange to flange on BFS (to be used in order code)

BVS	Hs		N	F	C	H		P
	min	max				min	max	
200	3,250	7,250	275	275	215	3,000	7,000	430
300	3,150	7,150	325	325	265			530
400	3,050	7,050	375	375	265			530

H = (G + R) - D + F + N : height from flange to flange on BVS (to be used in order code)

BIS	E	S	R		M	
			min	max	min	max
300 - 400	400	3,210	1,000	1,260	700	1,050
		3,460	1,185	1,430		

Application



Manure (25 - 30% dry matter)

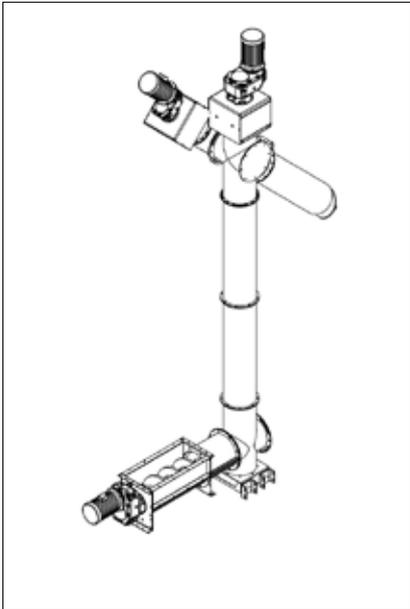


Crops

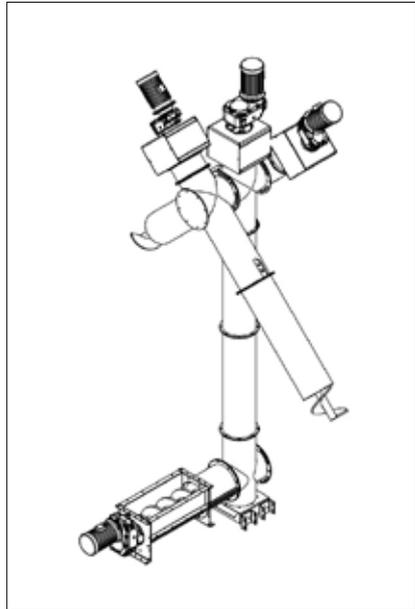


Green Waste

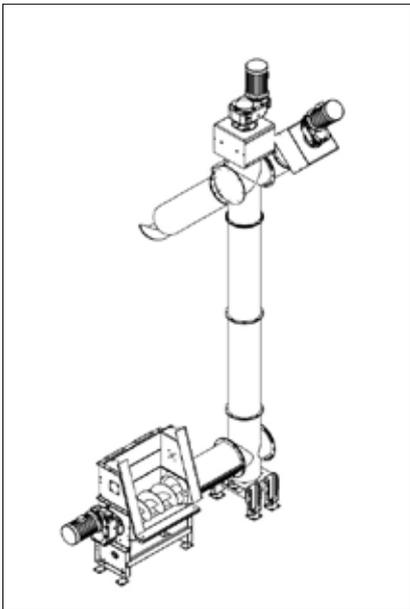
Configuration



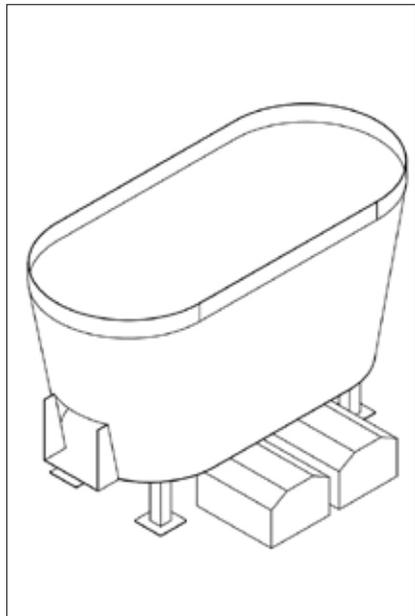
TCB system with BFS feeder and standard loading hopper



TCB system with double injection feeder BIS



TCB system with BFS feeder and loading hopper ready for mixing truck



Ready for any type of mixing truck

