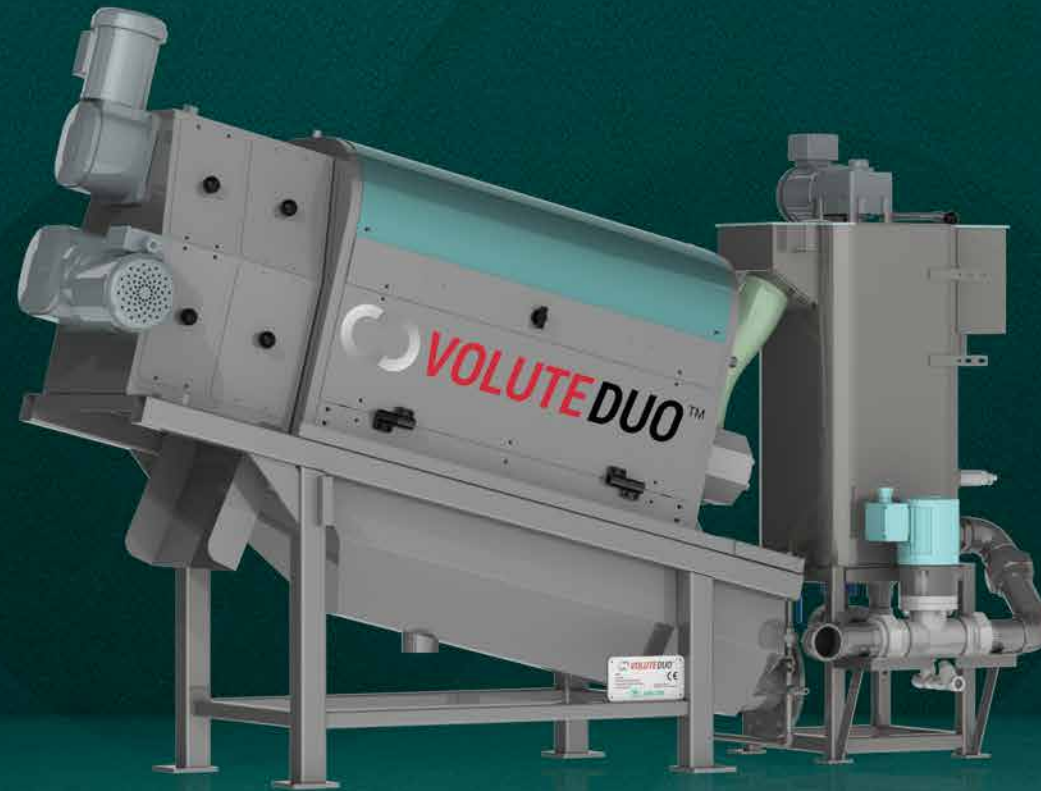


# debut

Sludge dewatering to the next stage



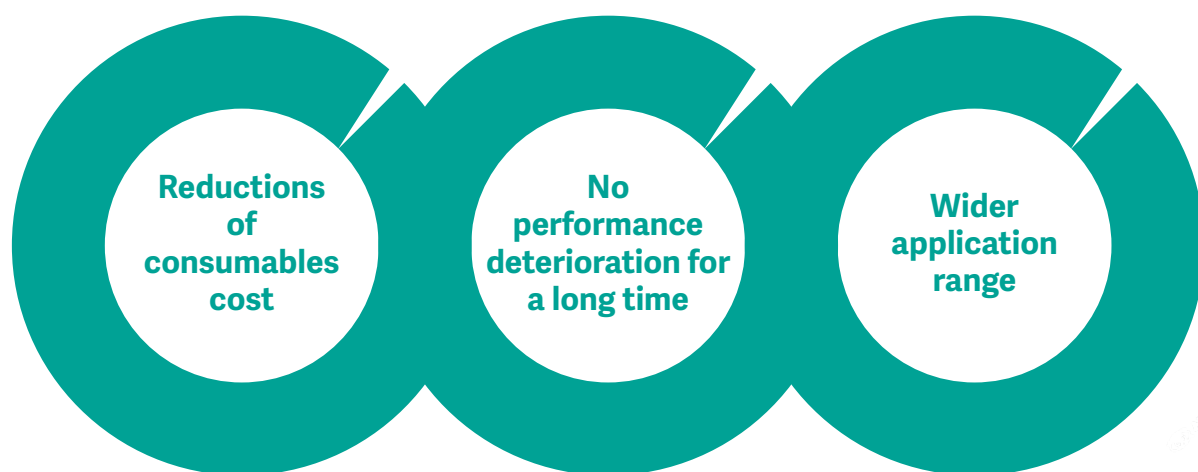
 **VOLUTE DUO**™

Amenity Convenience  
  
**AMCON**®

# From Revolution to Evolution

## A NEW STAGE IN SLUDGE DEWATERING

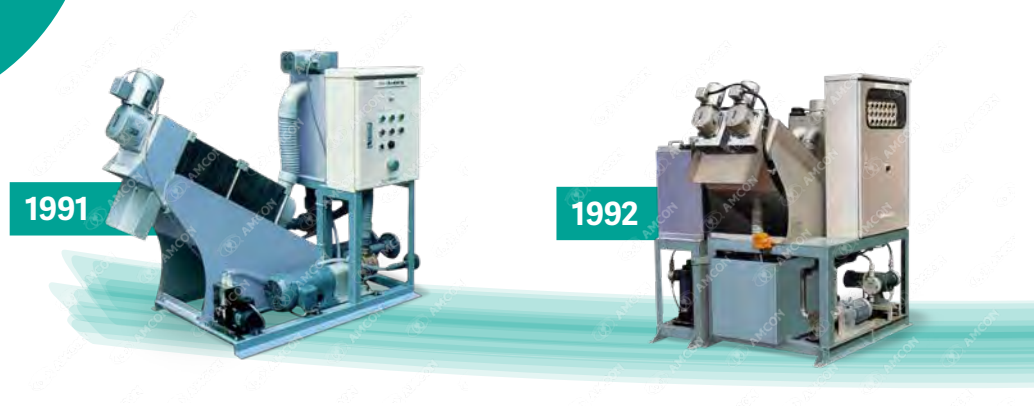
It has been 30 years since the launch of VOLUTE™, which created “a new genre” of sludge dewatering. Our commitment to continued customer satisfaction rests on the following 3 points.



We have developed our products further – not only with their dewatering ability, but also with our commitment to increased value for customers.

## WHAT IS **VOLUTE™** ?

In 1991, after 10 years of R&D, we launched VOLUTE™, a genuinely revolutionary sludge dewatering press. It was the moment our wish to bring “amenity and convenience” to the operators of sludge treatment plants became a reality. This invention later became a new genre of sludge dewatering technology, called a “multi-disc screw press” and spread across the world.



## Debut of VOLUTE DUO™

 **VOLUTE DUO™**





# What is evolutionary about VOLUTE DUO™?

VOLUTE™ provides high filtration efficiency. It dewateres thin sludge without pre-thickening and self-cleans filter media, making continuous dewatering without clogging possible. This VOLUTE™ technology has evolved into VOLUTE DUO™!

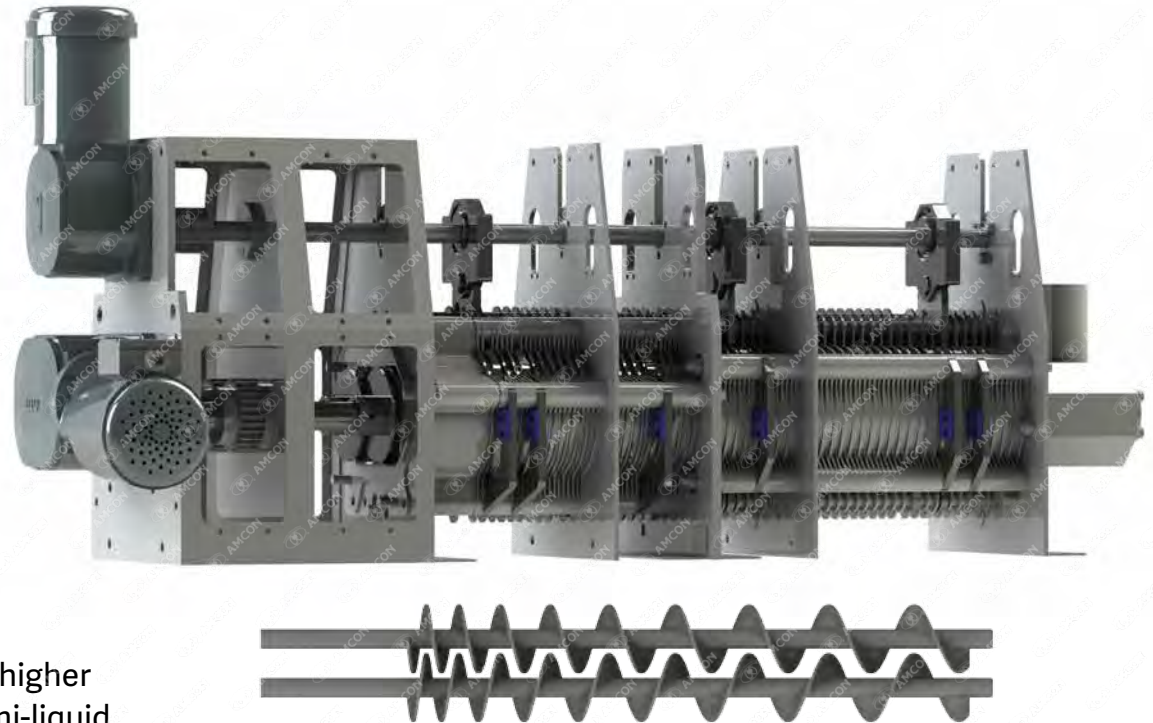
1. Twin screws are enclosed in one cylinder

2. Externally-driven moving rings, self-cleaning filter mesh

3. "Double-cutting" movement maintains dewatering efficiency

## Twin screws are enclosed in one cylinder

By enclosing 2 screws in one filtration cylinder, this press significantly reduces the risk of blockage while providing higher transportation efficiency, even with difficult liquids or semi-liquid materials.



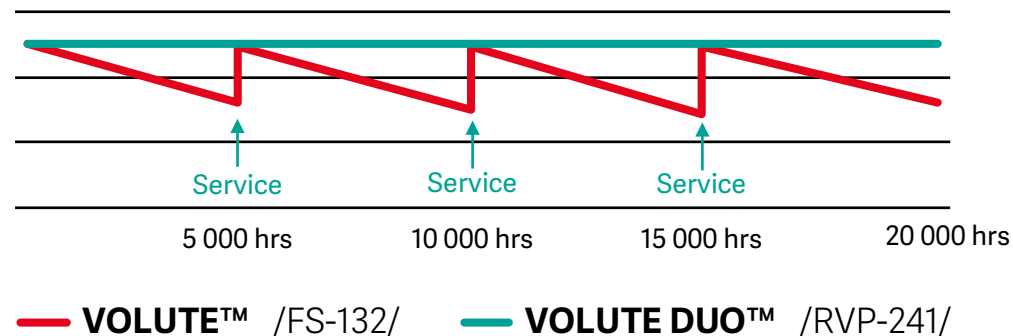
## Significantly extended life span

By driving the Moving Rings with an external rod, the two components which were once main consumables of the original design, now last significantly longer. A long-life durable design has been achieved.

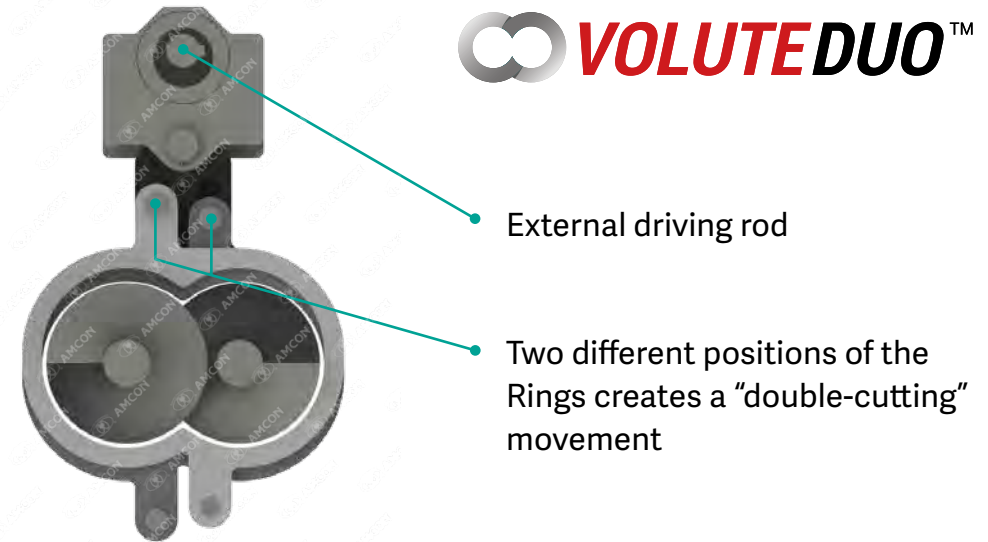
The “double-cutting” movement of the Moving Rings has been adapted to resemble the original movement, which contributes to the high dewatering efficiency.

## No performance deterioration for a long time

### Comparison with our existing model

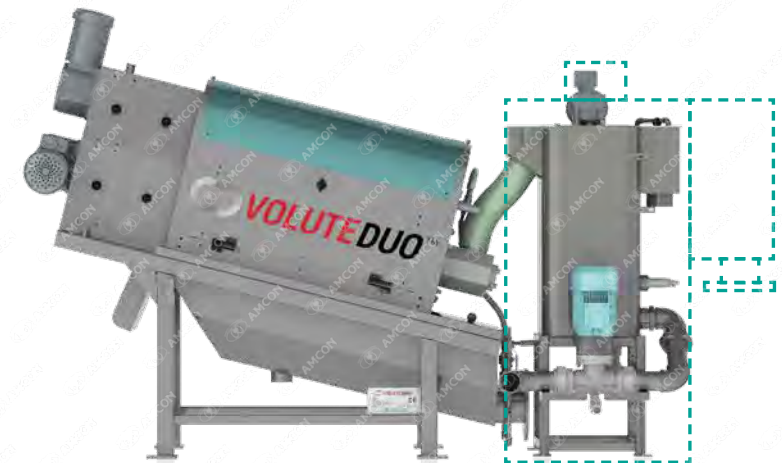


The Moving Rings and Screw (which have the potential to reduce dewatering efficiency) do not contact each other, thus high performance is maintained for long periods.













## Redesigned, more compact flocculation tank

The in-line dosage of flocculants into sludge has been adopted as standard. By improving the efficiency of the mixing process, tank dimensions are up to 50% smaller, with max. 25% reduction in flocculant consumption. Data is based on our own test.



## VOLUTE DUO™ at a glance

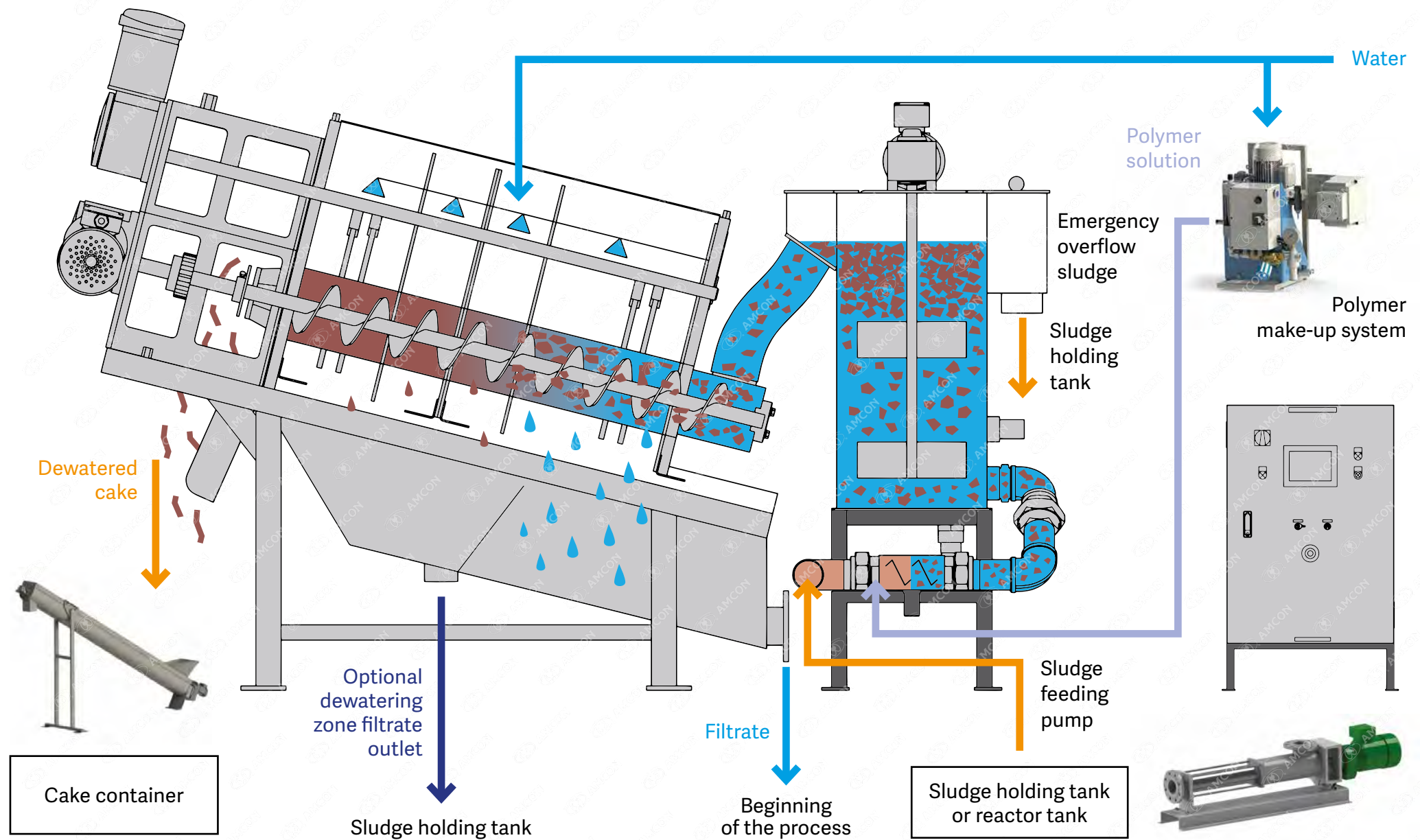
 <p>Reduction of consumables cost</p> <p><b>NEW</b></p>	 <p>No performance deterioration for a long time</p> <p><b>NEW</b></p>	 <p>Wider application range</p> <p><b>NEW</b></p>	 <p>Low blockage risk</p> <p><b>NEW</b></p>	 <p>Large capacity models more affordable</p> <p><b>NEW</b></p>
 <p>Compact Flocculation tank</p> <p><b>NEW</b></p>	 <p>Easy operation and maintenance</p> <p><b>IMPROVED</b></p>	 <p>High solids capture rate</p> <p><b>IMPROVED</b></p>	 <p>Low concentrated sludge, TS from 0.5%</p>	 <p>Water and energy saving</p>

## Model lineup

VOLUTE DUO™	Throughput kg-DS/h		Dimensions [mm]			Total power consumption [kW]	Weight [kg]	
	Min.	Max.	L	W	H		Empty	Operation
RVP-241	12	50	2166	911	1360	0.5	400	460
RVP-501	60	260	3943	1002	1986	1.86	2100	2600
RVP-601	120	520	4759	1217	2207	2.99	2770	3570
RVP-701	180	770	5291	1452	2637	3.37	3470	4570
RVP-801	220	950	5805	1386	2377	4.8	4710	6480
RVP-802	440	1900	6580	2570	2377	9.6	9560	12820

- Above throughput is calculated as approximate and may vary depending on sludge conditions. For model selection, please contact AMCON.
- The throughput of each model is based on a sludge cake with 20 ± 5 % solids content.
- There is no definite upper limit on inlet sludge concentration; however, the target sludge must be flowable.
- All the figures above are provided for the reference purpose only based on the standard design. The design may change without notice. Please contact AMCON for the latest information.

# Treatment process flow





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**Amenity and Convenience  
Beyond Expectation**