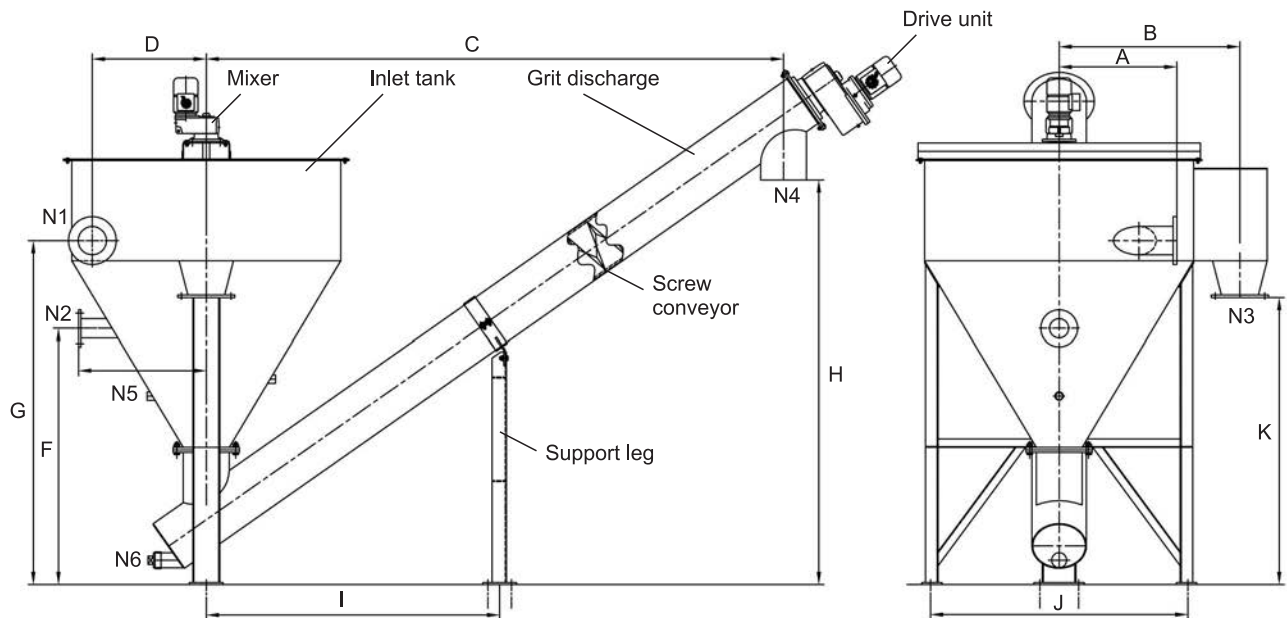


# GRIT WASHER CLASSIFIER

If stored in extensive periods, sand-water causes odour problems due to its high organic content. For this reason, sand withdrawn from grit traps is washed and dewatered before sending to final disposal point.

Grit washing and separation from water are provided by the units that contain agitators, screw conveyors and necessary water injection accessories.



Grit washer classifier consists of following main parts;

## Inlet tank

Inlet tank is designed in conic shape. Water-grit mixture enters into the tank tangentially and exists radially to provide cyclonic effect to settle grit. It is manufactured from stainless steel and bolted to screw conveyor.

## Mixer

A low speed mixer is added to system to assist continuous agitation of grit-water mixture in the tank. The mixer blades are made of stainless steel and unit is mounted on to top cover via bolts.

## Screw conveyor

Grit classifier unit is equipped with a shaftless screw to convey settled grit. The screw is manufactured from hardened steel material and PE wearing shoes exist at inner surface of screw housing to prevent friction between two metal surfaces.

## Drive unit

Each drive unit is consisting of a motor which has IP 55 class protection as standard and a gearbox to reduce motor output speed and supply suitable rotation speed for mixer and screw conveyor.

## Support leg

Stainless steel support leg is connected to conveyor housing via clamp and fixed to floor via chemical anchor bolts.

## Grit discharge

Washed and dewatered grit is conveyed to a container by screw through a discharge port.

		Model		
Specification		GWC250	GWC300	GWC350
Max. capacity l/sec		15	25	35
Grit discharge m <sup>3</sup> /h		1	1.5	2
Screw installation angle		35°	35°	35°
Dimensions, mm	A	575	700	900
	B	950	1075	1300
	C	3250	3435	4000
	D	550	680	850
	E	635	760	960
	F	1420	1520	1620
	G	1940	2040	2400
	H	2300	2400	2800
	I	1480	1745	2260
	J	1280	1530	1930
	K	1600	1700	2060
N1 (inlet)		DN100	DN150	DN200
N2 (organic reject)		DN100	DN100	DN100
N3 (outlet)		DN150	DN200	DN250
N4 (grit)		DN250	DN250	DN300
N5 (washing)		DN50	DN50	DN50
N6 (drain)		DN80	DN80	DN80
Screw speed, rpm		4.2	4.2	4.2
Mixer speed, rpm		12	12	12
Screw, kW		0.37	0.55	0.75
Mixer, kW		0.18	0.18	0.18

MAN 3420 06.09-E



# GRIT WASHER CLASSIFIER



**MASS ARITMA SİSTEMLERİ İNŞAAT SANAYİ VE TİCARET A.Ş.**

Gebze Organize Sanayi Bölgesi, 700. Sok., Gebze 41480 Kocaeli - Türkiye

Phone: +90 (262) 751 2210 pbx Fax: +90 (262) 751 0730 e-mail: [info@massaritma.com](mailto:info@massaritma.com) <http://www.massaritma.com>