



Introduction 简介

ATAL Multi-Stages Flocculation Magnetic System (AMSFM) 磁力净化系统

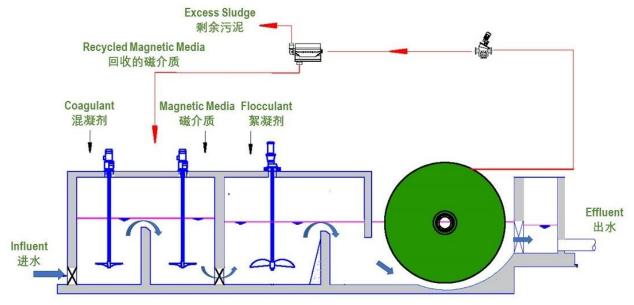
ATAL Multi-Stages Flocculation Magnetic System (AMSFM) is a technology developed by ATAL Engineering Limited. Our Group has accumulated rich experience and good performance in the process design, equipment integration and "turnkey" project. We have a team of engineers with strong technical capabilities and rich experience in project management. In the process design, equipment supply, installation, commissioning and operation of the process package, it is practical to achieve safety, reliability, economical application, advanced technology, and ensure that the effluent meets the standards.

How It Works

In AMSFM, the sewage subsequently mixes and reacts with coagulant, magnetic media, and flocculant in Coagulation Zone, Magnetic Media Mixing Zone, and Flocculation Zone, respectively, to form flocs. The flocs of magnetic media flows through the magnetic clarifier composed of multiple disks. When the water flows through the space between the disks, the magnetic flocs are attracted by the magnetic disks and separated from the water. The treated water becomes clarified and then discharged through the weir. In specific areas, the flocs on the disk is scraped off by the scraper. The magnetic sludge falls into the sludge collecting channel by gravity, and then is pumped to the magnetic sludge cutter and the magnetic sludge separator for magnetic media recovery. The excess sludge is discharged into the dewatering system or other sludge treatment systems.

磁力净化系统(AMSFM)是安乐工程有限公司研发的技术。我和工艺的设计、成套设备集成和"变钥匙"工程上积累有一支富的企业,并需要的强、工程是的企业,并是现的业工程的,并不是一个企业,是一个企业,是一个企业,是一个企业,是一个企业,是一个企业,是一个一个企业,是一个企业,也不是一个企业,也可以是一个企业,也可以是一个企业,也可以是一个企业,也可以是一个企业,也可以是一个企业,也可以是一个企业,也可以是一个一个企业,也可以是一个企业,也可以,也可以是一个企业,也可以,也可以一个企业,也可以是一个企业,也可以是一个企业,也可以是一个一个一个企业,也可以,也可以是一个企业,也可以是一个企业,也可以是一个企业,也可以,也可以是一个企业,也可以是一个企业,也可以是一个一个企业,也可以是一个企业,也可以是一个一个企业,也可以是一个一个企业,也可以是一个一个一个工作,也可以是一个一个工作,也可以,也可以是一个工作,也可以是一个一个工作,也可以是一个一个一个工作,也可以是一个一个工作,也可以是一个一个一个工作,也可以,也可以一个工作,也可以是一个一个工作,也可以是一个一个一个工作,也可以,也可以是一个工作,也可以是一个一个工作,也可以,也可以一个一个工作,也可以是一个工作,也可以是一个工作,也可以是一个工作,也可以,也可以是一个工作,也可以,也可以,也可以也可以,也可以,也

工作原理



Schematic diagram of AMSFM process 磁力净化系统工艺示意图



Advantages 优点

Excellent Treatment Performance

- · Short sludge separation time
- The hydraulic retention time of AMSFM is only 5-8 minutes
- The same effluent quality as the traditional clarifier
- Small footprint: about 10% that of the traditional clarifier
- Low operation cost: about 80% that of the traditional clarifier
- It can be designed to be transported by vehicle under emergency condition or containerised system, which is convenient for transportation
- · High surface loading:
 - The surface loading of traditional clarifier is up to 0.8 m/h
 - The surface loading of AMSFM is up to 60 m/h

处理能力出色

- 泥水分离时间短
- · AMSFM水力停留时间只需5-8分钟
- 出水水质达到相同效果
- 占地面积小:是传统混凝沉淀池的10%
- 运行费低:是传统工艺的80%
- 可以设计为应急车载或集装箱式系统,便于转场应用
- 表面负荷高:
 - 常规沉淀池的表面负荷为 0.8 m/h
 - AMSFM的表面负荷为 60 m/h











Job Reference 案例

Treatment Performance 案例处理效果

	COD (mg/L)	BOD ₅ (mg/L)	SS (mg/L)	Color 色度	TP (mg/L)
Polluted River Water 污染河道					
Influent 进水	60	50	40	60	3.5
Effluent 出水	≤54	≤45	≤10	≤20	≤0.5
Removal Efficiency 去除率 (%)	10	10	75	67	85
Municipal Wastewater 市政污水					
Influent 进水	420	220	220	70	6.0
Effluent 出水	≤210	≤110	≤10	≤30	≤0.5
Removal Efficiency 去除率 (%)	50	50	95	57	92





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