



## 填料流化推流器 MBBR Submersible Flow Propeller



## QDTM型填料流化推流器 QDTM Type MBBR Submersible Flow Propeller

QDTM型填料流化推流器是我公司自主研发生产的一种适用于水处理流化床生物膜反应工艺（简称MBBR工艺），完成含悬浮填料生化反应池内对水体推流、并使生物膜填料流化悬浮的新型推流器。

该型推流器特殊设计的三叶不锈钢叶轮、转速和功率，可使表面附着生物膜的填料在水体中充分流化悬浮，并有效防止填料受叶片的撞击而造成的破损。流线型的整体式不锈钢外壳，可使填料对机壳的磨损最小，水力效率达到最优化。流线型机体内整合了新一代节能电机和高扭矩的高效行星齿轮减速机，整体动力方案节能、高效、长寿命。主机的安装倾角可在（15°、22°、30°）范围内调节，可满足推流器对生物反应池优良的流化推流效果，有效提高反应效率。



The QDTM type submersible impeller is suitable for process of water treatment fluidized bed biofilm reactor (referred to as the MBBR process). The impeller can promote the flow of water containing suspended filler biochemical reaction tank, and make Biofilm fluidized suspension

Special design of three leafs impeller, speed and power of the impeller can make the biological filler fully fluidized and suspended in the water body and reduce the damage. The streamlined body is designed with an energy-saving motor and a high-torque planetary gear reducer, which has the effect of energy saving, high efficiency and long life, and can adjust the installation pitch angle within the range of (15°, 22°, 30°)

### 结构特点 Characteristics

- 叶轮——特殊设计的三叶式不锈钢或复合材料叶轮，综合考虑水力学与填料工艺运动要求
- 转速——优化计算后的叶轮输出转速，既能满足填料的流化，又能有效降低填料的破损率
- 外型——流线型的产品外观设计，最大限度降低了填料与设备之间的磨损，提高运行效率
- 结构——高效潜水电机，内置一体化行星减速机构，工作稳定、运行寿命长，传动效率高
- 安装——专门设计的倾角式安装，在15°、22°、30°范围可调，充分满足不同工况要求

Specially designed impeller shape and speed, not only can make the biological filler to maintain a good flow suspension state, and can avoid the packing damage. The adjustable mounting angle (15°, 22°, 30°) action machine is specially designed for biofilm reactor technology, to meet the bioreactor excellent overall flow state and effectively improve the efficiency of the reaction.

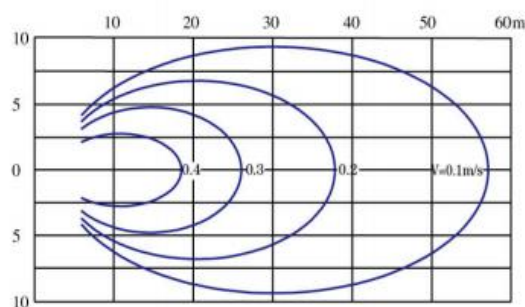
### 性能参数 Parameters

| 型号Model            | 电机功率<br>(kW)<br>Motor power | 额定电流<br>(A)<br>Rated current | 叶轮转速<br>(r/min)<br>rpm of impeller | 叶片数量<br>(set)<br>Num. of vane | 叶轮直径<br>(mm)<br>Diameter | 推力<br>(N)<br>Thrust | 重量<br>(Kg)<br>Weight |
|--------------------|-----------------------------|------------------------------|------------------------------------|-------------------------------|--------------------------|---------------------|----------------------|
| QDTM1080/102/3-3   | 3/8                         | 8.6                          | 102                                | 3                             | 1080                     | 1600                | 228                  |
| QDTM1080/102/3-4   | 4/8                         | 11.3                         | 102                                | 3                             | 1080                     | 2050                | 228                  |
| QDTM1080/102/3-5.5 | 5.5/8                       | 13.3                         | 102                                | 3                             | 1080                     | 2640                | 247                  |
| QDTM1080/102/3-7.5 | 7.5/8                       | 17.7                         | 102                                | 3                             | 1080                     | 3460                | 263                  |
| QDTM1450/142/3-11  | 11/8                        | 25.1                         | 142                                | 3                             | 1450                     | 4250                | 410                  |
| QDTM1450/142/3-15  | 15/8                        | 34.1                         | 142                                | 3                             | 1450                     | 4660                | 440                  |

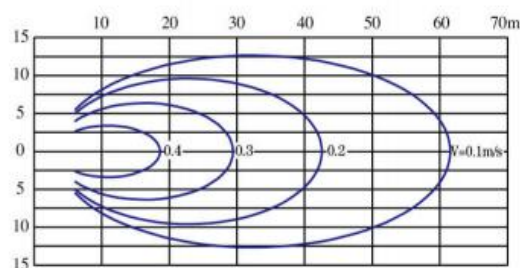
## 选型应用 Application

经过多年的研究试验证明，QDTM型填料流化推流器的选用与一般的潜水推流器有明显的不同，除需考虑池体水平面的水流分布，还需综合考虑填料在池体垂直方向的分布与流动。池型和填料的投加比例是影响选型的关键因素，而不同的容积比又是确定安装角度和转速的关键，配合池型及安装位置，以达到生物填料池较好的悬浮流化状态。在工程应用中必须经过专业的设计才能获得良好的工作效果。

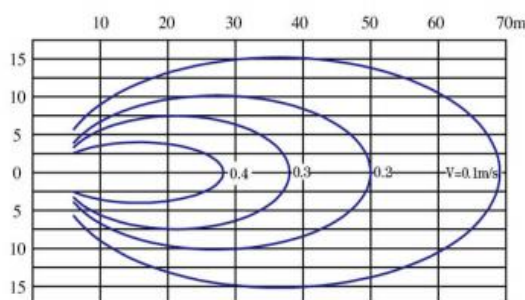
There is a significant difference between the selection of the QDTM type and the standard Submersible mixer. The selection of QDTM requires the design of both horizontal and vertical flow. In the selection work, the shape of the pool and the proportion of filler is very important, The QDTM must be specially designed to obtain good results in application.



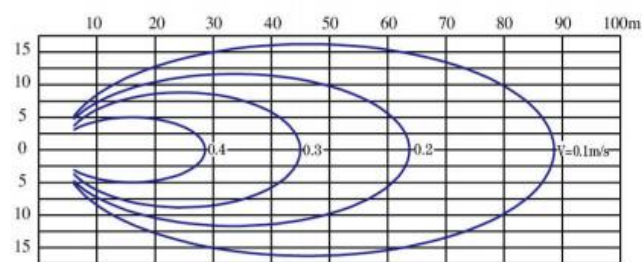
QDTM1080/102/3-3



QDTM1080/102/3-4



QDTM1080/102/3-5.5

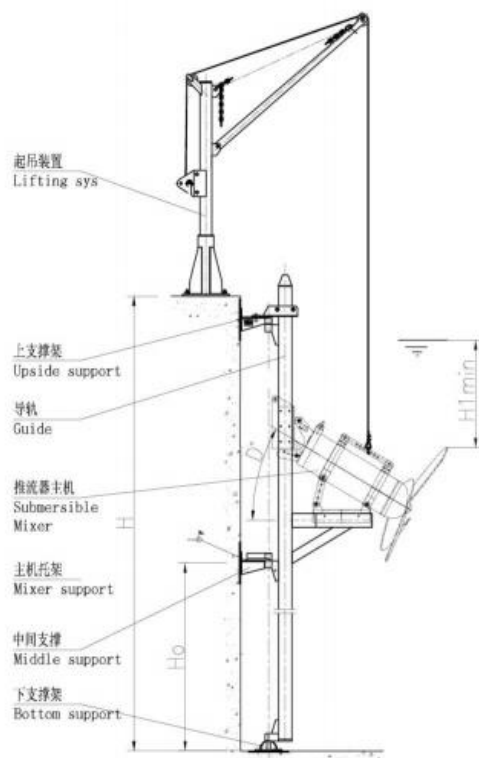


QDTM1080/102/3-7.5

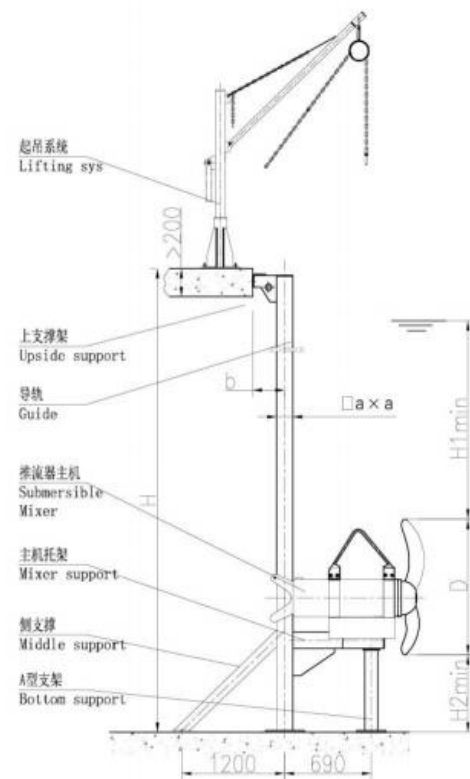


## 性能参数 Performance Parameters

| 型号Type               | a    | D      | b   | L    | H1min     | H2min | 安装系统<br>Installation system |
|----------------------|------|--------|-----|------|-----------|-------|-----------------------------|
| QDTM1080/102/3-3/S   | □100 | Φ 1080 | 335 | 1250 | 1000~1500 | -     | Ⅲ-1/2                       |
| QDTM1080/102/3-4/S   | □100 | Φ 1080 | 335 | 1250 | 1000~1500 | -     | Ⅲ-1/2                       |
| QDTM1080/102/3-5.5/S | □100 | Φ 1080 | 335 | 1250 | 1000~1500 | -     | Ⅲ-1/2                       |
| QDTM1080/102/3-7.5/S | □100 | Φ 1080 | 335 | 1250 | 1000~1500 | -     | Ⅲ-1/2                       |
| QDTM1450/142/3-11    | □100 | Φ 1450 | 335 | 1450 | 1200~1800 | -     | Ⅲ-1/2                       |
| QDTM1450/142/3-15    | □100 | Φ 1450 | 335 | 1450 | 1200~1800 | -     | Ⅲ-1/2                       |



Ⅲ-1型/Type



Ⅲ-2型/Type





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