# SUBMERSIBLE MIXERS

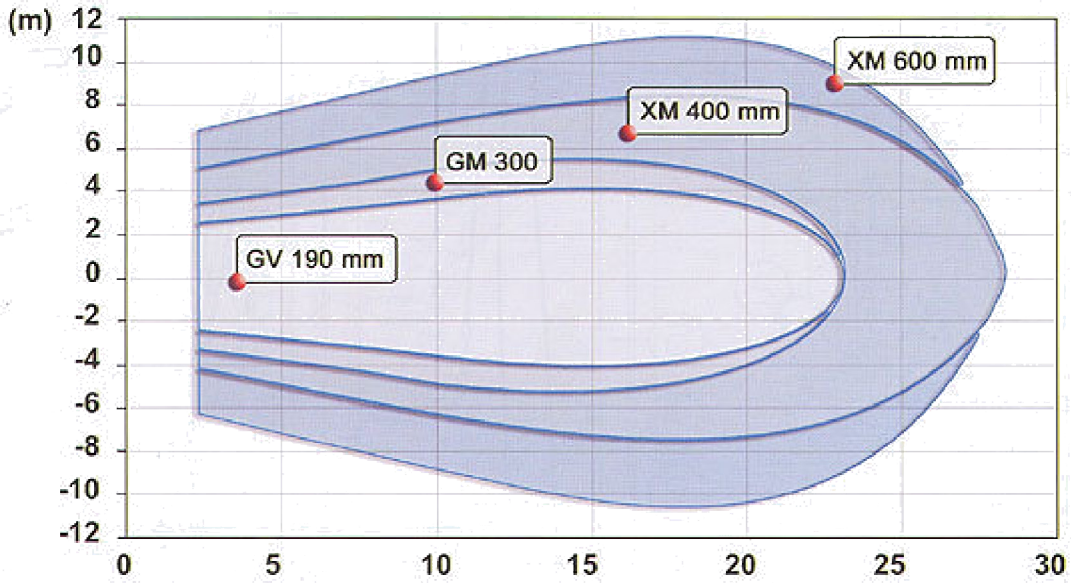
**Application:**
Submersible mixers are used for homogenisation of heavy sludge or liquids with high solid contents, for removal of sedimentary deposits and for to avoid ice formation.

**Construction data:**
Submersible mixers, rugged in construction, watertight electric motors accomodated in compartment, connected, by shafts of reduced lenghts, to the impellers situated by the interposition of oil chamber between the hydraulic side and the electric motor.

**Materials:**

| | |
|---|---|
| Motor housing | Cast iron G250 UNI-ISO 185 (serie GV-GM) |
| | Stainless steel AISI 316 (serie XM). |
| Propeller | Stainless steel AISI 316 |
| Shaft | Stainless steel AISI 420 (serie GV-GM) |
| | Stainless steel AISI 316L (serie XM) |
| Mechanical seal | Silicon Carbide/Carbide (serie GV-GM) |
| | Silicon Carbide/Carbide/Viton (serie XM) |
| Bolts | A2 class - AISI 304 (serie GV-GM) |
| | A4 class - AISI 316 (serie XM) |
| Electric cable | Neoprene H07RN/F |
| O-rings and lip seal | Nitrile (serie GV-GM) |
| | Viton (Serie XM) |

**Motor:**
Asynchronous, threephase electric motors, squirrel cage type, IP 68 protection, class H or F insulation. They are designed for S1 (continous) service, with a max overloading up to 10 % environmental cooling at 40ºC temperature. Starts par hour > up to 15. Motors cooling comes through thermic exchange with surrounding fluid.




Working range (m)

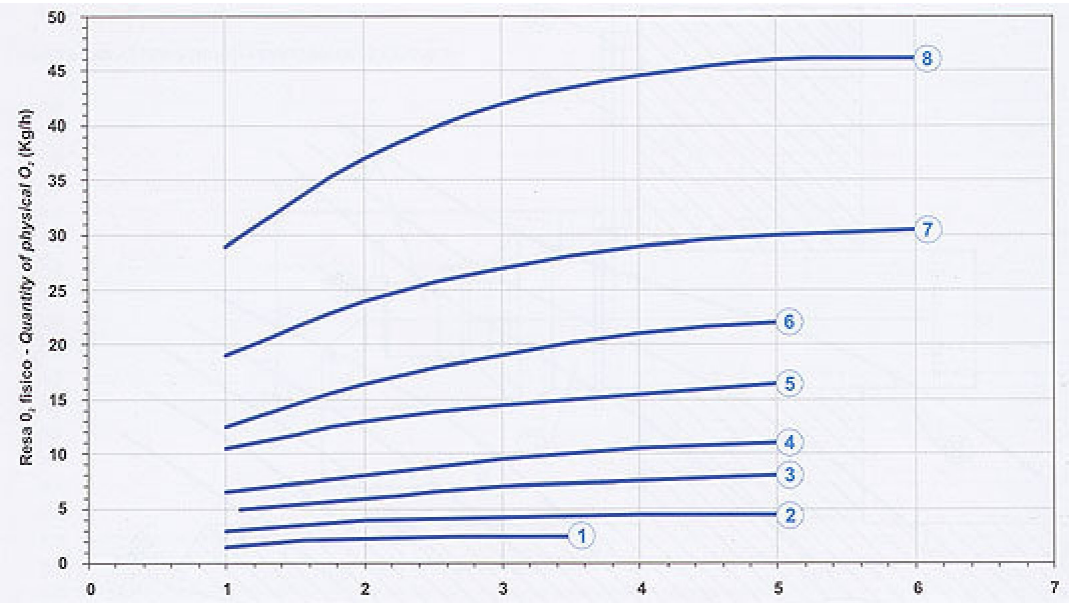
# OSSI-JET

**Appications:**
Ossi jet are used prevalently for oxidation, neutralization ,ozonisation /mixing and foam reduction of tank.

**Materials:**

| | |
|---|---|
| Submersible electric pump | Cast iron G250 UNI-ISO 185 |
| X foot rest | Galvanized steel |
| Ejector | Cast iron G250 UNI-ISO 185 |
| Outlet pipe | Stainless steel AISI 304 |
| Suction pipe | Stainless steel AISI 304 |
| Leaf-screen protection | Stainless steel AISI 304 |

**Motor:**
See pumps specifications.

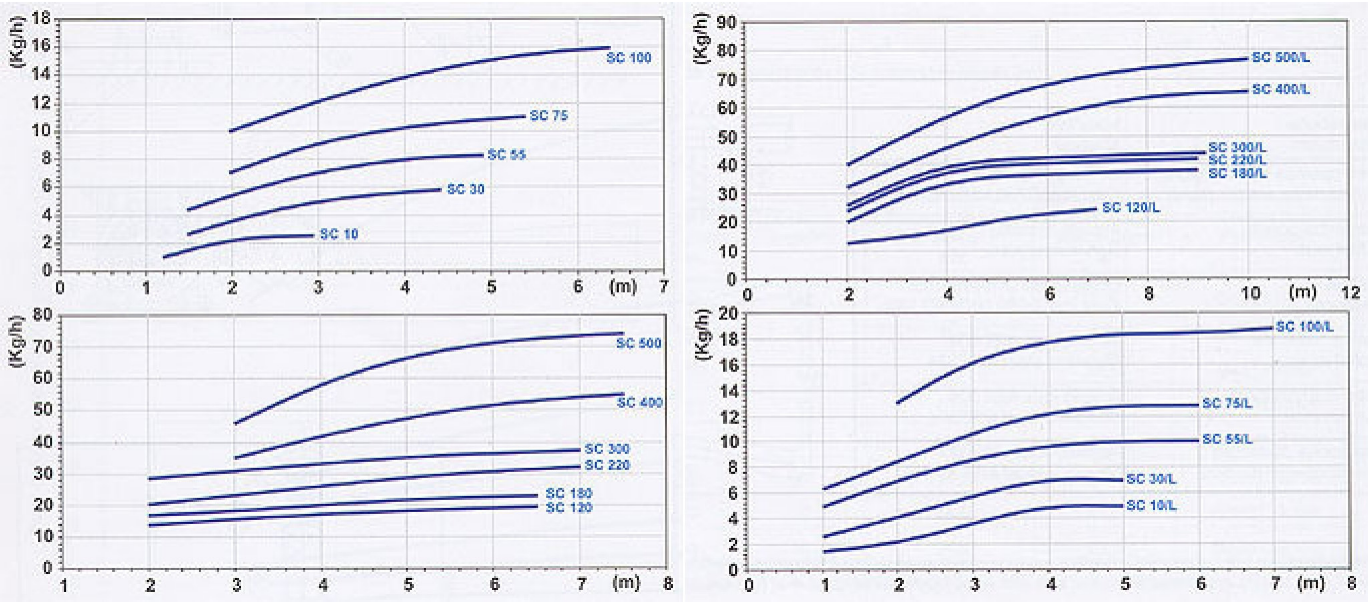


Submersion depht (m)

# ARIAL-JET

**Appications:**

Arial jet are frequently used in waste water treatment plants, especially during homogenisation and equalisation, pre-airing stages, biological oxidation stages, oxidation-nitrification stages, sludge stabilisation and post-airing stages.




Performance curves