Mechanimix Mechanimix								
	HWM	нм	HWM-B	HVM	TVM	GDM	GM	GDS
Impeller Type	Central/Off center Baffles: 0/2/3/4 Blades: 2/3/4 Stages: 1 - x	Central/Off center Baffles: 0/2/3/4 Blades: 2/3/4 Stages: 1 - x	Central Baffles: 2/4 Blades: 3/4 Stages: 1 - x	Central Baffles: Ortada 2 Blades: 2	Central/Off center Baffles: 2/4 Blades: 2 Stages: 1 - x	Central Baffles: 2/4 Blades: 6 Stages: 1 - 2	Central Baffles: 2/4 Stages: GDS veya HWM ile	Central Baffles: 2/4 Blades: 3 Stages: 1 - x
Flow Direction	Axial/Radial	Axial/Radial	Axial	Axial / possitive displacement	Axial/Radial	Radial	Radial	Axial/Radial
Blending	• • •	• • •	• • •	• • •	• • •	•		• •
Suspension	• • •	• • •	• •		• • •	•		• •
Dispersion	• •	•			•			
Heat Transfer	• •	• •	• •	• • •	• •	• • •	• •	• • •

 $\leq 1,000,000 \text{ [mPas]}$

High viscosity and

also possible - Low

Both pumping directions

to high viscosity processes

polymerization (batch/

solution), rubbers, creams,

mascara, sealants, grease,

0.3 - 0.95 [d1/d2]

Low

non-Newtonian

short for fluids

mixing times -

ointments etc.

Bio-leaching, fermentation, High viscosity adhesives,

≤ 20,000 [mPas]

excellent axial

a multi-stage

can create pipe

Polymerization

(suspension),

crystallization,

precipitation

pumping speeds

High axial speeds,

a virtual pull with setup

0.05 - 0.5 [d1/d2]

High

Homogeneous suspension Gas tube or sparger

• • •

≤ 10,000 [mPas]

powerful even at speed

dispersion performance

high gas flow

Fermentation,

hydrogenation,

hydroformulation,

0.2 - 0.6 [d1/d2]

High

oxidation,

alkoxylation,

carboxylation

• • •

≤ 2,000 [mPas]

Through hollow shaft

in gas-liquid reactors

combined - Very high

emulsion), leaching,

0.2 - 0.5 [d1/d2]

High

high performance

with GDS or HWM

mass transfer

Polymerization

(suspension/

crystallization,

precipitation

,storage tanks)

ring primary gas distributor spontaneous gassing

≤ 10,000 [mPas]

- Strong radial and

stable operation

Fermentation,

biological leaching,

atmospheric leaching

0.2 - 0.7 [d1/d2]

High

combines axial flows

Good gas distribution -

High overflow limit, powe

in terms of consumption

- High local shear rates

Gassing

Features

Applications

Diameter Ratio

Rotation Speed

Viscosity Range

≤ 40,000 [mPas]

Universal mixing

viscosity range

Polymerization

crystallization,

precipitation,

storage tanks

(suspension / pearl /

emulsion), leaching,

0.3 - 0.7 [d1/d2]

Medium

impeller for a wide

≤ 37,000 [mPas]

A wide viscosity

mixing impeller

Polymerization

emulsion), leaching,

0.3 - 0.7 [d1/d2]

Medium

crystallization, precipitation

(suspension/

,storage tanks)

versions)

universal for range

Variable wing angles

(standard of 23° and 55°

≤ 100,000 [mPas]

Low shear mixing

Homogeneous energy

gaseous conditions,

reliable suspension

polymerization,

0.3 - 0.96 [d1/d2]

Medium

precipitation,

crystallization

distribution Even under