



LABORATORY SERIES X10 & X40

The right system for every application

- *For laboratory applications and pilot productions on a small scale.*
- *Very easy assembly and tools ready to use within a very short time.*
- *Replaceable generators for adaptation to viscosity and work procedure.*



LABORATORY SERIES X10

Stator-rotor combinations (generators) with different diameters and various fineness provide the optimum combination for each dispersion process. Ystrals carefully considered concept enables you to adapt the processing tool to the respective task.



1 DRIVE



Drive X10/20 E3

Power consumption: 1.050 W

Output: 740 W

Line voltage:
230 V, 50 Hz or 120 V, 60 Hz

Idling speed:
3.500 – 25.000 rpm
infinitely variable via integrated
speed controller
(maximum speed depends on
load; duty cycle under full load
< 2 min)

230 V – 2402546

120 V – 2402547

Sw = Slot width
ck = cutting knives
At = Assembly tool

4 ACCESSORIES

Detailed information on the items
can be found on the following page.

All values are approximate.
No liability claims can be derived
from the document.

Subject to technical changes.

2 SHAFTS



WITHOUT SHAFT SEAL

Shaft 10T
with Teflon bearing
Immersion depth with
generator: 190 mm
With PTFE slide bearing
located in immersed part.

2366930

At – 2366954



MECHANICAL SEAL
AS SHAFT SEAL

Shaft 20/25D
Immersion depth with
generator: 190 mm

Ceramic/Carbon, FKM
2370729
Ceramic/Carbon, FFKM
2476951
Ceramic/Ceramic, FKM
2370730
Ceramic/Ceramic, FFKM
2390617

At – 2366915



MECHANICAL SEAL
AS SHAFT SEAL

Shaft 30D
Immersion depth with
generator: 190 mm

Ceramic/Carbon, FKM
2369307
Ceramic/Carbon, FFKM
2375773
Ceramic/SiC, FKM
2375093
Ceramic/SiC, FFKM
2396735

At – 2366915

3 GENERATORS

JETSTREAM MIXER



Jetstream mixer generator

200 – 1.000 ml
Stator m/M = 20/26 mm
Rotor ø = 15 mm

2375580

At – 2366942

DISPERSER



Dispersing generator, fine

30 – 150 ml
Stator ø = 10 mm;
Sw = 0,5 mm
Rotor Sw = 2,5 mm;
4 teeth

2375705



Dispersing generator, coarse without cutting knives

30 – 150 ml
Stator ø = 10 mm;
Sw = 2,0 mm
Rotor Sw = na; 2 teeth

2375706



Dispersing generator, coarse with cutting knives

30 – 150 ml
Stator ø = 10 mm;
Sw = 2,0 mm
Rotor Sw = na; 2 teeth

2375707

At – 2366908

DISPERSER



Dispersing generator 20DF, fine

250 – 1.500 ml
Stator ø = 20 mm;
Sw = 1,5 mm
Rotor Sw = 3,5 mm;
6 teeth

2375710



Dispersing generator 20DG, coarse

250 – 1.500 ml
Stator ø = 20 mm;
Sw = 3,0 mm
Rotor Sw = na;
2 teeth

2375711



Dispersing generator 25DF, fine

500 – 2.500 ml
Stator ø = 25 mm;
Sw = 1,5 mm
Rotor Sw = 3,6 mm;
6 teeth

2375712



Dispersing generator 25DG, coarse

500 – 2.500 ml
Stator ø = 25 mm;
Sw = 3,0 mm
Rotor Sw = na;
2 teeth

2375713

At – 2366913

JETSTREAM MIXER



Jetstream mixer generator G30D

500 – 5.000 ml
Stator m/M = 30/30 mm
Rotor ø = 25 mm

2375579



Jetstream mixer generator G30D

500 – 7.500 ml
Stator m/M = 45/53 mm
Rotor ø = 34 mm

2375577

At – 2366987

MIXING DISPERSER



Dispermix generator G30D

500 – 5.000 ml
Stator m/M = 40/54 mm;
Sw = 4,0 mm
Rotor ø = 34 mm

2375522

DISPERSER



Dispersing generator G30D, fine

500 – 2.500 ml
Stator ø = 30 mm;
Sw = 1,5 mm
Rotor Sw = 3 mm;
10 teeth

2375583



Dispersing generator G30D, coarse

500 – 2.500 ml
Stator ø = 30 mm;
Sw = 3,0 mm
Rotor Sw = na;
2 teeth

2375582

At – 2366913

Plate stand PS1

2432251

Cross clamp KL1

2369601

Container bracket GH1

2350973

Digital speed indicator DA1

2383577

LABORATORY SERIES X10

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1 DRIVE



Drive X10/20 E3

Power consumption: 1.050 W

Output: 740 W

Line voltage:
230 V, 50 Hz or 120 V, 60 Hz

Idling speed:
3.500 – 25.000 rpm
infinitely variable via integrated
speed controller
(maximum speed depends on
load; duty cycle under full load
< 2 min)

230 V – 2402546

120 V – 2402547

Sw = Slot width
At = Assembly tool

2 + 3 SHAFTS INCL. GENERATOR

DISPERSER	
	
WITHOUT SHAFT SEAL	WITHOUT SHAFT SEAL
Shaft 18/F incl. dispersing generator, fine, with Teflon bearing Immersion depth: 200 mm 150 – 1.500 ml Stator ø = 18 mm; Sw = 1,5 mm Rotor Sw = 2,5 mm; 6 teeth	Shaft 18/G incl. dispersing generator, coarse, with Teflon bearing Immersion depth: 200 mm 150 – 1.500 ml Stator ø = 18 mm; Sw = 3,0 mm Rotor Sw = na; 2 teeth
2367005	2367006
At shaft – 2366914	At disperser – 2366912

DISPERSER	
	
WITHOUT SHAFT SEAL	WITHOUT SHAFT SEAL
Shaft 25/F incl. dispersing generator, fine, with Teflon bearing Immersion depth: 200 mm 500 – 2.500 ml Stator ø = 25 mm; Sw = 1,5 mm Rotor Sw = 3,6 mm; 6 teeth	Shaft 25/G incl. dispersing generator, coarse, with Teflon bearing Immersion depth: 200 mm 500 – 2.500 ml Stator ø = 25 mm; Sw = 3,0 mm Rotor Sw = na; 2 teeth
2366994	2366995
At shaft – 2366914	At disperser – 2366912

4 ACCESSORIES



Plate stand PS1

Stand pillar H = 700 mm

Material: stainless steel

Plate: Steel

Powder-coated (RAL9010)

2432251



Cross clamp KL1

For fixing of drives X10/20 to
the lifts PS1

With 2 knurled screws

Powder-coated (RAL9010)

2369601



Clamping device for beakers GH1

With extension arm

For plate stand PS1

With tension chain for span
range 50 – 160 mm

Required for operation with „High
Speed Dissolver“ generator

2350973



Digital Speed indicator DA1

For drive of series X10/20 and
X10/25

Consisting of digital display,
sensor, spiral cable (1 m) and
batteries

2383577

OUR PERFORMANCE PROFILE:

- Jetstream mixer
- Dispermix (Mixing disperser)
- Batch dispersing machines
- Inline dispersing machines
- TDS powder wetting machines
- Plant engineering

CONSULTATION

PLANNING

PROJECT PLANNING

MECHANICAL ENGINEERING

PLANT ENGINEERING

COMMISSIONING

SERVICE

LABORATORY SERIES X40

Stator-rotor combinations (generators) with different diameters and various fineness provide the optimum combination for each dispersion process. Ystrals carefully considered concept enables you to adapt the processing tool to the respective task.



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1 DRIVE



Drive X40/38 E4

Power consumption: 1.800 W
Output: 1.200 W
Line voltage:
230 V, 50 Hz or 120 V, 60 Hz
Idling speed:
2.500 – 23.500 rpm
infinitely variable via integrated speed controller
(maximum speed depends on load; duty cycle under full load < 10 min)

230 V – 2487788

120 V – 2487808

Sw = Slot width
ck = cutting knives
At = Assembly tool

2 SHAFTS



WITHOUT SHAFT SEAL

Shaft 40T

with Teflon bearing
Immersion depth with generator: 300 mm

2368894



MECHANICAL SEAL AS SHAFT SEAL

Shaft 41G

Immersion depth with generator: 320 mm

SiC/Carbon, FKM
2396368
SiC/Carbon, FFKM
2477100
SiC/SiC, FKM
2382264
SiC/SiC, FFKM
2477103

3 GENERATORS

JETSTREAM MIXER



Jetstream mixer generator (barrel mixer)

2 – 20 litres
Stator m/M = 44,5/44,5 mm
Rotor ø = 35 mm

2375739



Jetstream mixer generator

5 – 50 litres
Stator m/M = 64/78 mm
Rotor ø = 42 mm

2488346

At – 2367135

JETSTREAM MIXER



Jetstream mixer generator (barrel mixer)

2 – 20 litres
Stator m/M = 40/40 mm
Rotor ø = 35 mm

2375740



Jetstream mixer generator, 64 mm

5 – 50 litres
Stator m/M = 64/78 mm
Rotor ø = 42 mm

2488347

At – 2367135

DISPERSER



Dispersing generator, fine without cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 2,0 mm
Rotor Sw = 3,0 mm;
12 teeth

2375729



Dispersing generator, medium without and with cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 8,0 mm
Rotor Sw = na;
4 teeth

without ck – 2375732

with ck – 2375735



Dispersing generator, coarse without and with cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 8,0 mm
Rotor Sw = na;
4 teeth

without ck – 2375733

with ck – 2375736

At disperser – 2367059

DISPERSER



Dispersing generator, fine without cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 2,0 mm
Rotor Sw = 3,0 mm;
12 teeth

2375729



Dispersing generator, medium without and with cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 3,0 mm
Rotor Sw = na;
4 teeth

without ck – 2375732

with ck – 2375735



Dispersing generator, coarse without and with cutting knives

2 – 20 litres
Stator ø = 40 mm;
Sw = 8,0 mm
Rotor Sw = na;
4 teeth

without ck – 2375733

with ck – 2375736

At disperser – 2367059

HIGH SPEED DISSOLVER



Dissolver disc, 50 mm

2 – 20 litres
ø = 50 mm

Can only be used with vessel attachment (e.g., container bracket GH1)!

2375742

4 ACCESSORIES



Stand U1

Stand pillar H = 1.000 mm
Material: stainless steel
V-base: steel
Powder-coated (RAL9010)

2367234



Stand GU1V

Stand pillar H = 1.000 mm
Material: stainless steel
Height-adjustable with gas spring, lift: 450 mm
V-base: steel
Powder-coated (RAL9010)

2400428



Stand clamp SKL1

For fixing of drives X40/38 and X10/20 to the lifts U1/GU1V
With 2 knurled screws
Powder-coated

2367238



Stand clamp SKL1.1

For fixing of the clamping device for containers (tense fastener) RH1 to the lifts U1/GU1V
With 2 knurled screws
Powder-coated

2367239



Container bracket GH2

With extension arm
For attachment on the stand U1 + GU1V with stand clamp SKL 1.1
Elastomer clamping strap for a span range from 100 – 500 mm
Required for operation with „High Speed Dissolver“ generator

2488586



Adapter AD1-40/10

For operation of shafts from the series X10 with the drives from series X40
With knurled screw

2366991



Digital speed indicator DA2

For drive of series X40
Consisting of digital display, sensor, spiral cable (1 m) and batteries

2383579