



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

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

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

- ☐ Keramik/Kohle, FKM
2369307
☐ Keramik/Kohle, FFKM
2375773
☐ Keramik/SiC, FKM
2375093
☐ Keramik/SiC, FFKM
2396735
☐ At – 2366915

3 GENERATORS



**Jetstream mixer
generator**
200 – 1.000 ml
Stator m/M = 20/26 mm
Rotor ø = 15 mm

- ☐ 2375580
☐ At – 2366942



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

- ☐ 2375705

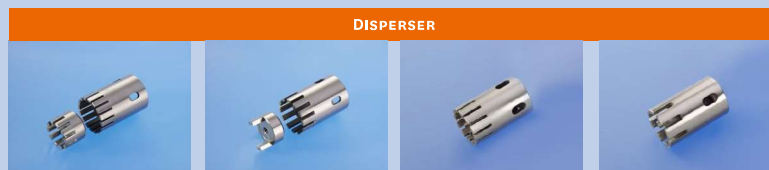
**Dispersing generator,
coarse
without cutting knives**
30 – 150 ml
Stator ø = 10 mm;
Sw = 2,0 mm
Rotor Sw = na; 2 teeth

- ☐ 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



**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
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



**Dispermix generator
G30D**
500 – 5.000 ml
Stator m/M = 40/54 mm;
Sw = 4,0 mm
Rotor ø = 34 mm

- ☐ 2375522



**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

4 ACCESSORIES

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

Plate stand PS1

- ☐ 2432251

Cross clamp KL1

- ☐ 2369601

Container bracket GH1

- ☐ 2350973

Digital speed indicator DA1

- ☐ 2383577

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

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 <input type="checkbox"/> 2367005 <input type="checkbox"/> At shaft – 2366914	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 <input type="checkbox"/> 2367006 <input type="checkbox"/> 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 <input type="checkbox"/> 2366994 <input type="checkbox"/> At shaft – 2366914	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 <input type="checkbox"/> 2366995 <input type="checkbox"/> At disperser – 2366912

4 ACCESSORIES

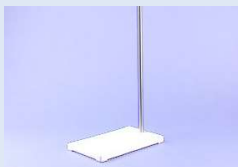


Plate stand PS1

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.



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

- ☐ Ceramic/Carbon, FKM
2396368
- ☐ Ceramic/Carbon, FFKM
2477100
- ☐ SiC/SiC, FKM
2382264
- ☐ SiC/SiC, FFKM
2477103

3 GENERATORS



Jetstream mixer generator (barrel mixer)

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

- ☐ 2375740



Jetstream mixer generator

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

- ☐ 2488346

☐ At – 2367135



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 = 3,0 mm
Rotor Sw = na;
4 teeth

- ☐ without ck – 2375732
- ☐ with ck – 2375735

☐ At disperser – 2367059



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



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



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

☐ At disperser – 2367059



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

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