



## 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



#### Jetstream mixer generator

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

2375580

At - 2366942

### DISPERSER



#### Dispensing generator, fine

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

2375705



#### Dispensing generator, coarse without cutting knives

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

2375706



#### Dispensing 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



#### Dispensing generator 20DF, fine

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

2375710



#### Dispensing generator 20DG, coarse

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

2375711



#### Dispensing generator 25DF, fine

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

2375712



#### Dispensing 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



#### Dispensing generator G30D, fine

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

2375583



#### Dispensing 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 DAI

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

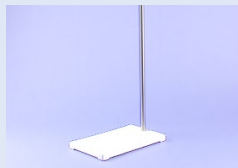
Sw = Slot width  
At = Assembly tool

### 2 + 3 SHAFTS INCL. GENERATOR

DISPERSER	
	
WITHOUT SHAFT SEAL	WITHOUT SHAFT SEAL
<b>Shaft 18/F</b> 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  2367005 At shaft – 2366914	<b>Shaft 18/G</b> 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  2367006 At disperser – 2366912

DISPERSER	
	
WITHOUT SHAFT SEAL	WITHOUT SHAFT SEAL
<b>Shaft 25/F</b> 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  2366994 At shaft – 2366914	<b>Shaft 25/G</b> 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  2366995 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



**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



**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



**Dispensing generator, fine**  
without cutting knives  
2 – 20 litres  
Stator ø = 40 mm;  
Sw = 2,0 mm  
Rotor Sw = 3,0 mm;  
12 teeth

2375729



**Dispensing 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



**Dispensing 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

2375742

Can only be used with vessel attachment (e.g., container bracket GH2)!

## 4 ACCESSORIES



### Stand U1

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

2367234



### Stand GUIV

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/GUIV  
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/GUIV  
With 2 knurled screws  
Powder-coated

2367239



### Container bracket GH2

With extension arm  
For attachment on the stand U1 + GUIV 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