E info@zoz.de



grinding units

- Simoloyer® CM01 -

standard type

standard type			
Technical data			
extra features	standard grinding units in 2 different volume sizes with soft biconical grinding space		biconical
application	Alloy batch	ving (& Re a-operation (& pression mode)	ng, Mechanical active Milling) in a semi-continuous
size/type		W01-1/2l	W01-2l
net weight		11 kg	14 kg
nominal volume		0.5 liter	2 liter
nominal power		5.4 kW/l	1.35 kW/l
maximum relative veloc	city	6.8 m/sec	10.9 m/sec
cooling system pre-seal	-unit	via vessel	
cooling system flange		via vessel	
cooling system vessel		water, G3/8	
heating system vessel		no	
heating system flange		I	10
atmosphere			nert gas, air
airlock system main port			W45
airlock system aux. port		NV	W18
continuous ports Z01-Z04		I	10
airlock system		Di	N40
operation pressure		1x10 ⁻⁴ mbar - 2 bar	
operation temperature		-10 − 90°C	
operation mode		batch (semi-continuous)	
material vessel		stainless steel 1.4301	
material rotor		stainless steel 1.4301/	
		Stellite [®] /THM	
recomm. grinding media		100Cr6, 1.4401	
		T	
	loading rates:		MA, RM)
grinding media, $\emptyset \le 5$ m	ım	1-2 kg	2-4 kg
product < 4mm		40-100 g	200-400 g

modular type B

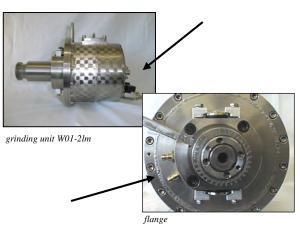
Technical data			
extra features	Separated cooling system of pre-seal unit fron flange & vessel allows non-cooling or use of ho or cooled medium in the double-jackets of flange & vessel		
application	Reacti	im - High Temper ve Milling, Bond Temperature Opera	ding as well as
size/type		W01-½lm	W01-2lm
net weight		11 kg	14 kg
nominal volume		0.5 liter	2 liter
nominal power		5.4 kW/l	1.35 kW/l
maximum relative velo	ocity	6.8 m/sec	10.9 m/sec
cooling system pre-sea	ıl-unit	water, G ¹ / ₈	
cooling system flange		via vessel	
cooling system vessel		water, G ³ / ₈	
heating system vessel		water/oil, G3//8	
heating system flange		via vessel	
atmosphere			nert gas, air
airlock system main port		NV	
airlock system aux. port		NV	V18
continuous ports Z01-Z04			0
airlock system		DN	140
.•		1 10-4 1	2.1
operation pressure		1x10 ⁻⁴ mbar - 2 bar -20 – 150°C	
operation temperature		batch (semi-continuous)	
operation mode		batch (semi-	-continuous)
material vessel		stainless st	teel 1.4301
material rotor		stainless steel	
			llite®/THM
recomm. grinding media		100Cr6, 1.4401	
loading rates:		(HEM, N	MA, RM)
grinding media, $\emptyset \le 5$	mm	1-2 kg	2-4 kg
product < 4mm		50-100 g	200-400 g



grinding unit W01-1/2l



grinding unit W01-21



technical data subject to alterations



type biconical

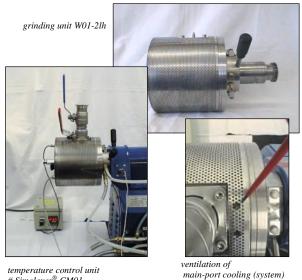
Technical data extra features improved discharging behavior of CMB-materials by biconical grinding space (standard is only soft biconical) application processing of CMB-materials with extremely agglomeration and adhesion tendency in the process size/type W01-21k net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/I maximum relative velocity 10.9 m/sec cooling system pre-seal-unit via vessel cooling system pre-seal-unit via vessel cooling system vessel water, G³/s heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10⁴mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates:	type steomear			
extra features materials by biconical grinding space (standard is only soft biconical) application processing of CMB-materials with extremely agglomeration and adhesion tendency in the process size/type W01-2lk net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel mo heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10⁴mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401	Technical data			
(standard is only soft biconical) application processing of CMB-materials with extremely agglomeration and adhesion tendency in the process size/type W01-2lk net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel mo heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10 ⁴ mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, Ø ≤ 5m				
application processing extremely agglomeration and adhesion tendency in the process size/type W01-2lk net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit via vessel cooling system pre-seal-unit via vessel cooling system vessel mo heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10 ⁴ mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, Ø ≤ 5mm 2-4 kg	extra features			
application extremely tendency in the process size/type W01-2lk net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit via vessel cooling system pre-seal-unit via vessel cooling system pre-seal-unit via vessel cooling system vessel no heating system vessel no heating system vessel no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10 ⁴ mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, Ø ≤ 5mm 2-4 kg				
tendency in the process size/type				
size/type W01-2lk net weight 14 kg nominal volume 2 liter nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit cooling system pre-seal-unit via vessel via vessel cooling system flange water, G¾ heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure 1x10⁴mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, Ø ≤ 5mm 2-4 kg	application			
nominal volume nominal power nowsec nowsec nominal power nowsec nowsec nominal power nowsec nowsec nominal power nominal power nowsec nominal power nowsec nominal power nowsec nowsec nominal power nominal power nowsec nominal power nowsec nowsec nominal power nowsec nowsec nominal power nowsec nowsec nominal power nowsec nowsec nominal power nominal power nowsec nowsec nominal power nowsec nowsec nominal power nowsec n		tende		
nominal volume nominal power nominal power nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit cooling system pre-seal-unit cooling system vessel via vessel via vessel via vessel via vessel no heating system vessel no heating system flange atmosphere airlock system main port airlock system main port airlock system aux. port continuous ports Z01-Z04 no airlock system DN40 operation pressure operation temperature operation mode			111	
nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit cooling system pre-seal-unit via vessel via vessel via vessel via vessel water, $G\%$ W heating system vessel heating system vessel no heating system vessel no heating system flange no W atmosphere wacuum inert gas, air airlock system main port airlock system aux. port continuous ports Z W Z	net weight		14 kg	
nominal power 1.35 kW/l maximum relative velocity 10.9 m/sec cooling system pre-seal-unit cooling system pre-seal-unit via vessel via vessel via vessel via vessel water, $G\%$ W heating system vessel heating system vessel no heating system vessel no heating system flange no W atmosphere wacuum inert gas, air airlock system main port airlock system aux. port continuous ports Z W Z				
maximum relative velocity cooling system pre-seal-unit via vessel no heating system vessel no heating system vessel no heating system vessel no via via vessel no heating system vessel no no via via vessel no no via via vessel via vessel no no via via vessel via vessel via vessel via vessel no no via via vessel no no via via vesse via via vessel no via vessel				
cooling system pre-seal-unit via vessel cooling system flange via vessel via vessel vater, G_{2}^{3} heating system vessel no heating system vessel no heating system vessel no heating system with properties of the properties				
cooling system flange via vessel water, G_{8} heating system vessel no heating system vessel no heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40	maximum relative velo	city	10.9 m/sec	
cooling system flange via vessel water, G_{8} heating system vessel no heating system vessel no heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40				
cooling system vessel water, $G\%$ heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40		l-unit	via vessel	
heating system vessel no heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 operation pressure $1x10^{-4}$ mbar - 2 bar operation temperature -20 - 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	cooling system flange		via vessel	
heating system flange no atmosphere vacuum inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 Operation pressure operation temperature -20 − 90°C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	cooling system vessel		water, G ³ / ₈	
atmosphere vacuum inert gas, air airlock system main port NW45 NW45 NW18 NW18 NW18 NW40 NW40 NW40 NW40 NW40 NW40 NW40 NW40			no	
airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 Operation pressure $1x10^4$ mbar - 2 bar operation temperature $-20 - 90^{\circ}$ C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm $2-4$ kg	heating system flange		no	
airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40 Operation pressure $1x10^4$ mbar - 2 bar operation temperature $-20 - 90^{\circ}$ C operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm $2-4$ kg				
airlock system aux. port continuous ports Z01-Z04 airlock systemNW18 no DN40operation pressure operation temperature operation mode $1x10^{-4}$ mbar - 2 bar -20 - 90°C batch (semi-continuous)material vessel material rotorstainless steel 1.4301 stainless steel 1.4301/ Stellite $^{\oplus}$ /THM recomm. grinding medialoading rates: grinding media, $\emptyset \le 5$ mm(HEM, MA, RM) 2-4 kg	atmosphere			
continuous ports Z01-Z04 no airlock system DN40	airlock system main port		NW45	
airlock system DN40 operation pressure operation temperature operation mode material vessel material rotor recomm. grinding media loading rates: grinding media, $\emptyset \le 5$ mm DN40 $1x10^{4}$ mbar - 2 bar $-20 - 90^{\circ}$ C batch (semi-continuous) stainless steel 1.4301 stainless steel 1.4301/ Stellite®/THM recomm. grinding media $100Cr6, 1.4401$			NW18	
operation pressure $1 \times 10^4 \text{mbar} - 2 \text{ bar}$ operation temperature $-20 - 90^{\circ}\text{C}$ operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media $100\text{Cr}6, 1.4401$ loading rates: (HEM, MA, RM) grinding media, $\emptyset \leq 5 \text{mm}$ $2\text{-}4 \text{ kg}$			no	
operation temperature $-20 - 90^{\circ}\text{C}$ operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \leq 5\text{mm}$ 2-4 kg	airlock system		DN40	
operation temperature $-20 - 90^{\circ}\text{C}$ operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \leq 5\text{mm}$ 2-4 kg				
operation temperature $-20 - 90^{\circ}\text{C}$ operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5\text{mm}$ 2-4 kg	operation pressure		1x10 ⁻⁴ mbar - 2 bar	
operation mode batch (semi-continuous) material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	operation temperature		-20 – 90°C	
material vessel stainless steel 1.4301 material rotor stainless steel 1.4301/ Stellite®/THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	operation mode		batch (semi-continuous)	
material rotor stainless steel 1.4301/ Stellite $^{\oplus}$ /THM recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg				
recomm. grinding media 100Cr6, 1.4401 loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5 \text{mm}$ 2-4 kg	material vessel			
loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	material rotor		stainless steel 1.4301/ Stellite®/THM	
loading rates: (HEM, MA, RM) grinding media, $\emptyset \le 5$ mm 2-4 kg	recomm. grinding media		100Cr6, 1.4401	
grinding media, $\emptyset \le 5$ mm 2-4 kg				
grinding media, $\emptyset \le 5$ mm 2-4 kg	loading rates:		(HEM, MA, RM)	
		nm		
			200-400 g	

modular type C

T. 1 1 1. 4.			
Technical data			
extra features		n port, vessel wit	pre-seal-unit & th electrical heat-
application		h Temperatus	re Operation,
size/type		W01-1/2lh	W01-2lh
net weight		11 kg	14 kg
nominal volume		0.5 liter	2 liter
nominal power		5.4 kW/l	1.35 kW/l
maximum relative veloc	ity	6.8 m/sec	10.9 m/sec
cooling system pre-seal-	unit	water G ¹ / ₈	
cooling system flange		via pre-seal-unit	
cooling system vessel		only main port via pre-seal unit	
heating system vessel		electrical heat-sheets	
heating system flange		no	
atmosphere			nert gas, air
airlock system main port			V45
airlock system aux. port		NV	V18
continuous ports Z01-Z04			10
airlock system		Di	N40
operation pressure		1x10 ⁻⁴ mbar - 2 bar	
operation temperature		0 – 200°C	
operation mode		batch (semi-continuous)	
material vessel		stainless steel 1.4301	
material rotor		stainless steel	
		1.4301/Stellite®/THM	
recomm. grinding media	1	100Cr6	, 1.4401
loading rates:		(HEM, MA, RM) 1-2 kg 2-4 kg	
	grinding media, $\emptyset \le 5$ mm		2-4 kg
product < 4mm		50-100 g	200-400 g



grinding unit W01-2lk



temperature control unit # Simoloyer® CM01

technical data subject to alterations



type WC-Co

type we ev			
Technical data			
extra features	chamber plasma-coated with WC-Co		th WC-Co
application	particu	tamination free lar carbide-, oxid ard-phased materia	
size/type	ı	W01-1/21-THM	W01-21-THM
net weight		11 kg	14 kg
Ŭ.			
nominal volume		0.5 liter	2 liter
nominal power		5.4 kW/l	1.35 kW/l
maximum relative ve	locity	6.8 m/sec	10.9 m/sec
cooling system prese		via v	essel
cooling system flange	e	via v	essel
cooling system vesse		water, G ³ / ₈	
heating system vesse	1	no	
heating system flange		no	
atmosphere		vacuum in	ert gas, air
airlock system main port		NW	
airlock system aux. port		NW	18
continuous ports Z01-Z04		ne	0
airlock system		DN40	
operation pressure		1x10 ⁻⁴ mbar - 2 bar	
operation temperature		0 – 90°C	
operation mode		batch (semi-continuous)	
material vessel		1.4301 with WC-Co-coating	
material rotor		1.4301 with WC-Co-coating /	
		THM	
recomm. grinding media		WC-Co, Co-rich	
loading rates:		(HEM, M	
grinding media, $\emptyset \le \emptyset$	4mm	1-2 kg	2-4 kg
product < 1mm		50-100 g	200-400 g

type semi-continuous

Technical data			
extra features	additional ports Z01-Z04		
application	semi-continous operation in depression & compression mode, e.g. prototyping for rapid processing of ductile metal flakes & rapid particle size reduction of brittle materials		
size/type		W01-2l-s1	
net weight		14 kg	
-			
nominal volume		2 liter	
nominal power		1.35 kW/l	
maximum relative velo	city	10.9 m/sec	
cooling system pre-sea	l-unit	via vessel	
cooling system flange		via vessel	
cooling system vessel		water, G ³ / ₈	
heating system vessel		no	
heating system flange		no	
atmosphere		vacuum inert gas, air	
airlock system main port		NW45	
airlock system aux. port		NW18	
continuous ports Z01-Z04		DN16, tangentional	
airlock system		DN40	
operation pressure		1x10 ⁻⁴ mbar - 2 bar	
operation temperature		-20 – 90°C	
operation mode		batch (semi-continuous)	
material vessel		stainless steel 1.4301	
material rotor		stainless steel 1.4301/	
		Stellite [®] /THM	
recomm. grinding med	ia	100Cr6, 1.4401	
1 1'		ATEM MA DIA	
loading rates:		(HEM, MA, RM)	
grinding media, $\emptyset \le 5$ mm		2-4 kg	
product < 4mm		200-400 g	



WC-Co / THM coated





grinding unit W01-21-THM





grinding unit W01-2l-s1

vessel



type transparent

Taskeisal data			
Technical data			
extra features	transparent vessel where the delivery volume does not include a full grinding unit, corresponding unit must be used		
application	visual observation of kinetic and motion during high kinetic processing		
size/type		glass-vessel 01-2l (fits to W01-2l, -2lm, -2lh & -2ls1)	
net weight		3 kg	
· ·			
nominal volume		2 liter	
nominal power		1.35 kW/l	
maximum relative velo	city	10.5 m/sec	
cooling system pre-sea	l-unit	flange not included	
cooling system flange		flange not included	
cooling system vessel		no	
heating system vessel		no	
heating system flange		no	
atmosphere		no	
airlock system main port		no	
airlock system aux. port		no	
continuous ports Z01-Z04		no	
airlock system	airlock system no		
operation pressure		0 – 0.2 bar	
operation temperature		RT	
operation mode		batch	
operation more buttern			
material vessel		1.4301 (frames) and glass	
material rotor		not included	
recomm. grinding media		various, rubber, steel, ceramic	
loading rates:		(HEM, MA, RM)	
grinding media, $\emptyset \le 5$ mm		2-4 kg	
product < 4mm		not recommended	

type ceramic

chamber coated / lined with alumina Pe-contamination free processing, in particular ceramic and composite materials	Technical data		
size/type Size/type W01-2lox Net weight Nominal volume Nominal power Nomina			
size/type net weight 14 kg nominal volume nominal power 1.35 kW/l maximum relative velocity 5m/sec max. cooling system pre-seal-unit cooling system flange cooling system vessel tooling system vessel water, G³/s heating system vessel no heating system flange atmosphere atmosphere vacuum, inert gas, air airlock system aux. port no NW45 airlock system aux. port continuous ports Z01-Z04 no airlock system DN40			
net weight 14 kg nominal volume			
nominal volume nominal power 1.35 kW/l maximum relative velocity 5m/sec max. cooling system pre-seal-unit cooling system flange cooling system vessel heating system vessel heating system vessel no heating system flange atmosphere atmosphere vacuum, inert gas, air airlock system aux. port volume vessel NW45 airlock system aux. port volume vessel NW45 airlock system aux. port volume vessel NW18 continuous ports Z01-Z04 no airlock system DN40			
nominal power 1.35 kW/l maximum relative velocity 5m/sec max. cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel water, G3/s heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
nominal power 1.35 kW/l maximum relative velocity 5m/sec max. cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel water, G3/s heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
maximum relative velocity 5m/sec max. cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel water, G½ heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
cooling system pre-seal-unit via vessel cooling system flange via vessel cooling system vessel water, G3/8 heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
cooling system flange via vessel cooling system vessel water, G3/8 heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
cooling system flange via vessel cooling system vessel water, G3/8 heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
cooling system vessel water, G3/s heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
heating system vessel no heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
heating system flange no atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
atmosphere vacuum, inert gas, air airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
airlock system main port NW45 airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
airlock system aux. port NW18 continuous ports Z01-Z04 no airlock system DN40			
continuous ports Z01-Z04 no airlock system DN40			
airlock system DN40			
operation pressure 1x10 ⁻⁴ mbar - 2 bar			
operation temperature RT – 90°C			
operation mode batch (semi-continuous)			
material vessel 1.4301 with alumina			
lining/coating			
material rotor 1.4301 with alumina coating ¹⁾) /		
THM	/		
recomm. grinding media ZrO ₂ fully stabilized			
1): in development, rpm limited to 250s	0rpm		
loading rates: (HEM, MA, RM)			
grinding media, $\emptyset \le 5$ mm 2-3 kg			
product < 4mm 200-400 g			







alumina coated rotor

technical data subject to alterations



Type SiN

1 ypc on v			
Technical data			
extra features		er lined with Si_5N_4 plates, rotor blades , shaft covered with ceramic-coated	
application		tamination free processing, in particular and composite materials	
size/type		W01-21-SiN	
net weight		14 kg	
		·	
nominal volume		1,6 liter	
nominal power		1.35 kW/l	
maximum relative velo	ocity	1000 rpm	
		·	
cooling system pre-sea	ıl-unit	water, G1/8	
cooling system flange		via vessel	
cooling system vessel		water, G3/8	
heating system vessel		no	
heating system flange		no	
atmosphere		inert gas or vacuum	
airlock system main p		NW45	
airlock system aux. po	rt	NW18	
continuous ports Z01-	Z04	no	
airlock system		DN40	
operation pressure		1x10 ⁻⁴ hPa - 2 bar	
operation temperature		RT − 100°C	
operation mode		batch (semi-continuous)	
material vessel		1.4301 with Si ₃ N ₄ lining	
material rotor		hardened steel / Si ₃ N ₄	
recomm. grinding media		ZrO ₂ fully stabilized	
loading rates:		(HEM, MA, RM)	
grinding media, $\emptyset \le 5$	mm	2-4 kg	
product < 4mm		200-400 g	



grinding unit W01-21-SiN



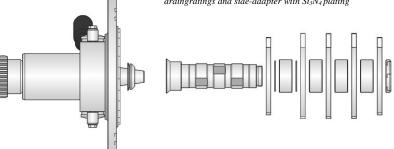
grinding unit W01-21-SiN disassembled

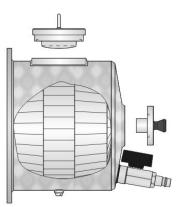


rotor assembled on flange



draingratings and side-adapter with Si₃N₄ plating





technical data subject to alterations