Газодозировочная станция DSD 500

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Казахстан +(727)345-47-04
Беларусь +(375)257-127-884
Узбекистан +998(71)205-18-59
Киргизия +996(312)96-26-47

эл.почта: mox@nt-rt.ru || сайт: https://maximator.nt-rt.ru/

Gasdosing Station

The MAXIMATOR Gasdosing Station is designed for the high-pressure dosing of gas for the physical foaming of plastics. The physical foaming is applied in the process variants extrusion foaming, polyurethane foaming and pressure-die casting foaming (microcellular foaming).

DSD 500

Gasdosing Station for up to 500 bar

The MAXIMATOR DSD 500 Gasdosing Station compresses the gas with air driven Maximator gas booster to pressures up to 500 bar and doses very uniformly, also in case of severe back-pressure fluctuation, through an innovative mass-flow regulation concept and the highly-dynamic Maximator 3/3-way proportional pressure control valve.

The gas volume is measured on the pressure side. The mass-flow regulation is insensitive to temperature and adapts optimally to pressure variations with constant dosing quantity.

The measured values are visualized. Because of the precise injection flow regulation, production fluctuations under the same product, material and process conditions can be reduced.

- Generation of a constant, uniform microcellular foam structure
- Injection flow capacity is controlled extremely precisely, as well as independently of pressure and temperature in the extruder (also in case of very small dosing quantities)
- automatic adjustment to extruder pressure reduces start-up process
- a high-dynamic control valve responds promptly to process changes
- Insensitive to gas bubbles in the liquid CO2 - no extensive cooling required

Application

In case of physical foaming, the gas dosing station injects the gas (propellant) into the extruder under high pressure via an injection valve. The gas quantity can be adjusted directly and adapted to the polymer and the foam density to be achieved.

At the tool outlet, a sudden, large pressure drop leads to a supersaturation of the melts with the propellant. The gas is again released from the polymer and thus forms a consistent, microcellular foam structure.

Technical Data	DSD/500/30	DSD/500/60
Proportioning volume (min./max.)	0,2 - 30,0 kg/h CO2	2,0 - 60,0 kg/h CO2
Proportioning range	0,2 - 3 / 0,5 - 10 / 2 - 30 kg/h	2 - 30 / 6 - 60 kg/h
MAXIMATOR Gas Booster (Nos.)	DLE30-75-2-GU-C (1)	DLE30-75-2-GU-C (2)
Extruder pressure	max. 350 bar	
Medium	CO_2 / N_2	
Flow capacity CO_2 with high pressure supply –liquid-	max. 30,0 kg/h	max. 60,0 kg/h
Flow capacity CO_2 with riser pipe bottles –liquid-	max. 20,0 kg/h	max. 40,0 kg/h
Flow capacity N_2 with gas bottle inlet pressure 200 bar down to 20 bar	min. 2,0 kg/h	min. 4,0 kg/h
Air drive pressure*	6 – 10 bar	
PLC	Siemens S7	
Control Panel	5,7“ , visualisation 320x240	
Weight	approx. 275 kg	approx. 320 kg
Dimensions (W/D/H)	720 / 685 / 1830 mm	

*Operation with 4 bar air drive pressure is possible, but this will reduce the flow capacity.

As well as the low raw material consumption, the significant characteristics of this production process are positive product properties, such as low density, exceptional heat and sound insulation, mechanical damping, low levels of water vapor permeability and reduced moisture absorption.

Further advantages are a homogeneous foam structure, very good process stability and low propellant costs.

Variants of Maximator DSD500 Gasdosing Station for different applications

DSD/500/Atex
For dosing of combustible gases such as propane / butane Maximator has developed a version of the DSD500, which can be used in conformity with the explosion protection directive 94/9 EC in hazardous areas.

DSD/500/20/SS-Stainless Steel
Especially for the dosing of CO2 in drying processes in the food industry the stainless steel version of the DSD500 is designed.

Technical Data Connections	
Compressed air connection	1/2“ BSP Hose nozzle
N2 / CO2 Inlet	M16 x 1,5 (Ermeto 8S) 1 Nos
N2 / CO2 Outlet (Depending on injection volume)	1/8“ or 6mm metric tube Swagelok pipe fitting (1 Nos)
N2 gas bottle connection 200 bar*	W24,32 x 1/14“ Thread (DIN 477, No. 10)
N2 gas bottle connection 300 bar*	M30 x 2 Thread (DIN 477, No. 54)
CO2 gas bottle connection*	W21,80 x 1/14“ Thread (DIN 477, No. 6)
Electrical connection	230 V / 50 Hz

*Adapter available as accessory.

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Казахстан +(727)345-47-04
Беларусь +(375)257-127-884
Узбекистан +998(71)205-18-59
Киргизия +996(312)96-26-47

эл.почта: mox@nt-rt.ru || сайт: https://maximator.nt-rt.ru/