NEXGEN®

The Next Generation
The Fluid Solution

EDITION EN 2025.02

NEXGEN its branding means
The Next Generation of The Fluid Solution

We have constantly tried in all new way, and ideas from our long experiences to make new products & systems having an unique advantages, because the industrial manufacturing environment has been constantly advanced, new process required, new materials developed, all going to the evolution. We've always focused on the next step and the future.

Industry

Automotive and its parts

Solar panel

Electronics

Battery pack

PCBA

Dispensing System Focus on

High-Viscosity

Dispensing Process

Thermal Conductive
Sealing (CIPG)
Encapsulation
Molding
Lubricating
Metering
Filling/Packaging
Adhesive

Material Handling

Thermal Conductive Materials(TIM)
Structural Sealants
Silicone/Epoxy/Urethane based glues
Acrylic adhesives
Single/Two components materials
Lubricants(Grease)

Mixing

Potting

Dotting

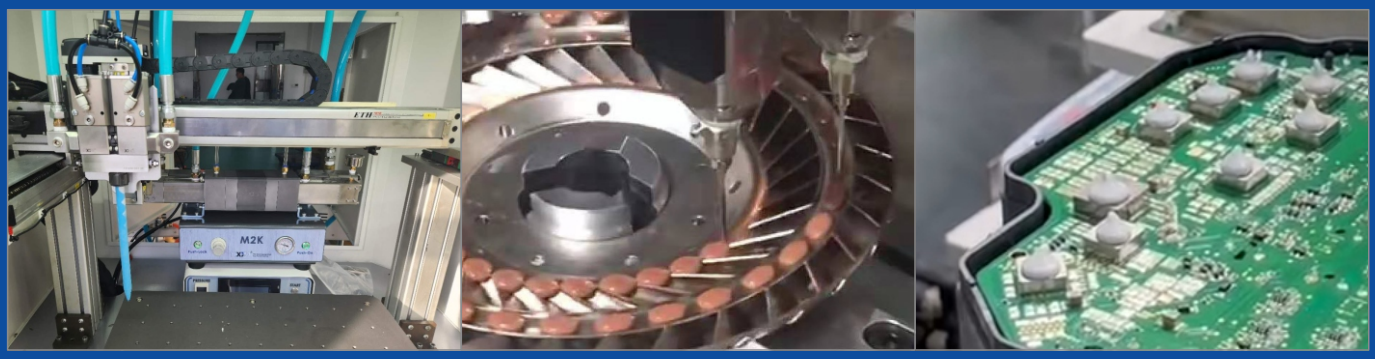
Beading

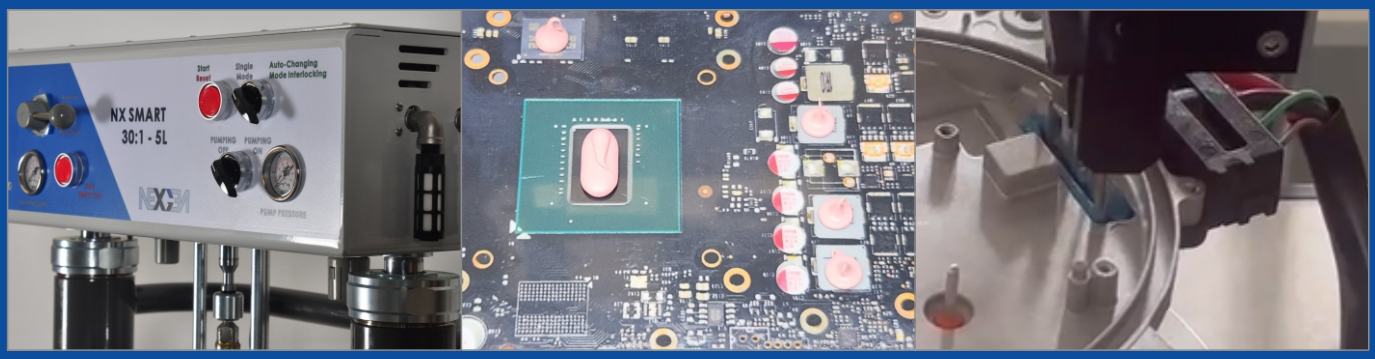
Metering

Spreading

TIM

Application





Normally
No pressure

Max. 1MPa Only
in the whole pressure section

Preventing
Material Separation Risk

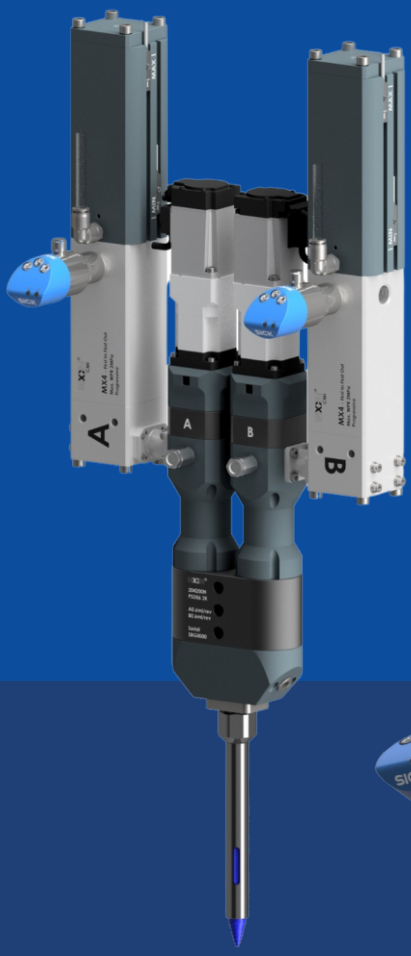
The Accuracy

The Sustainability

Low Maintenance Cost

No Material Separation

1K

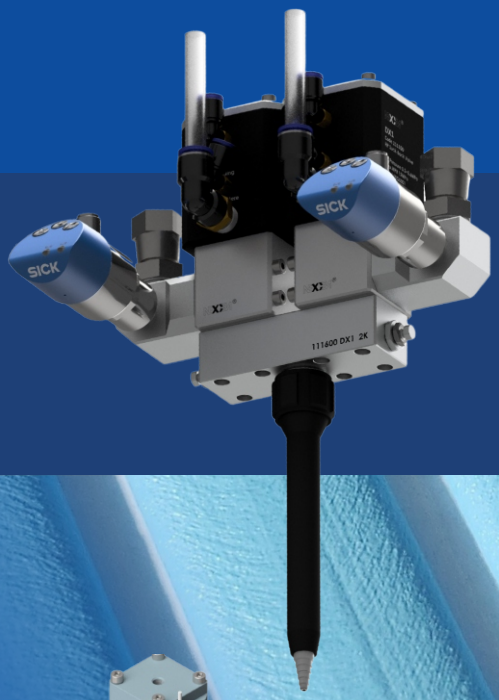


The Exact 1:1

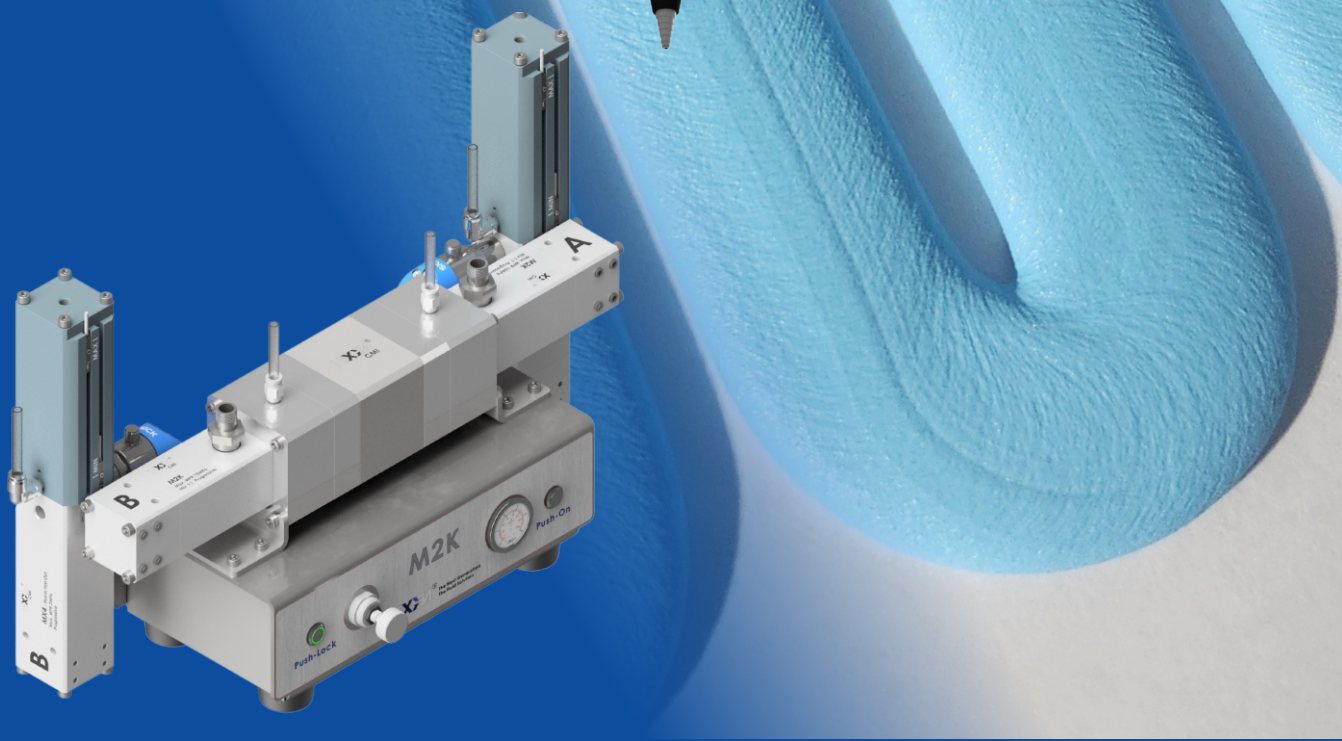
The Sustainability

Low Maintenance Cost

No Material Separation

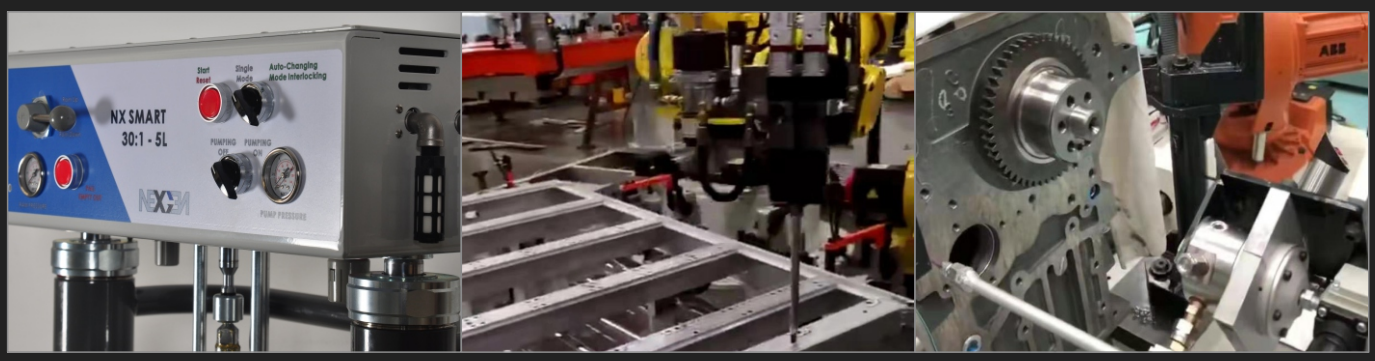


2K



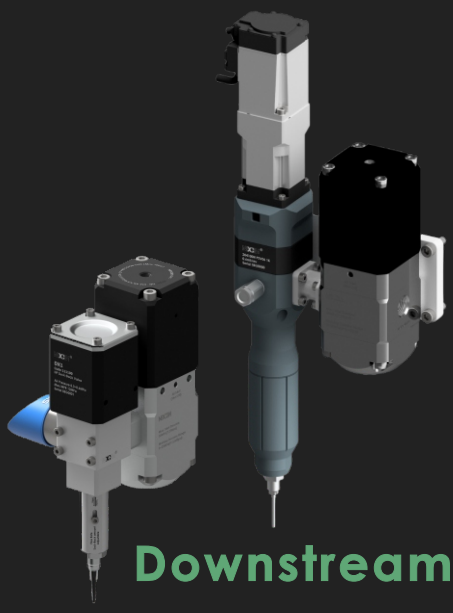
CIPG / FIPG

Application



Centralized

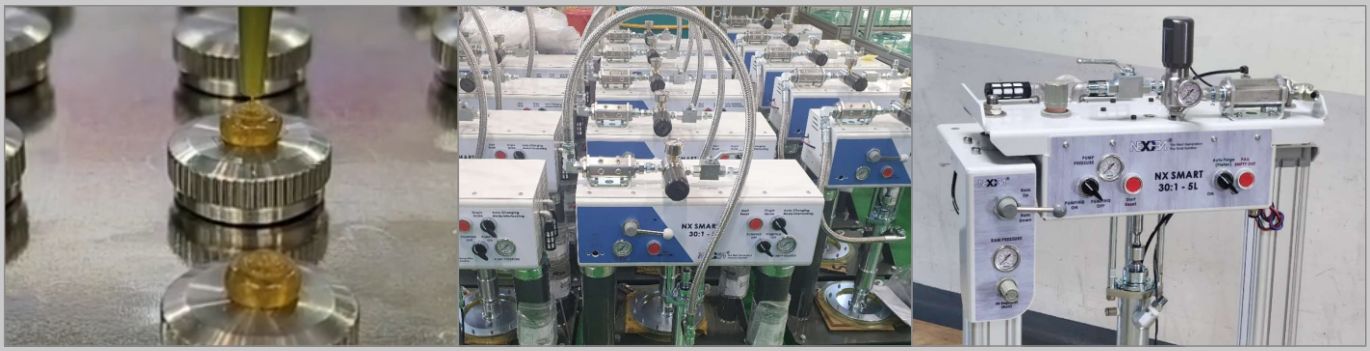
High Efficient Supply Sys

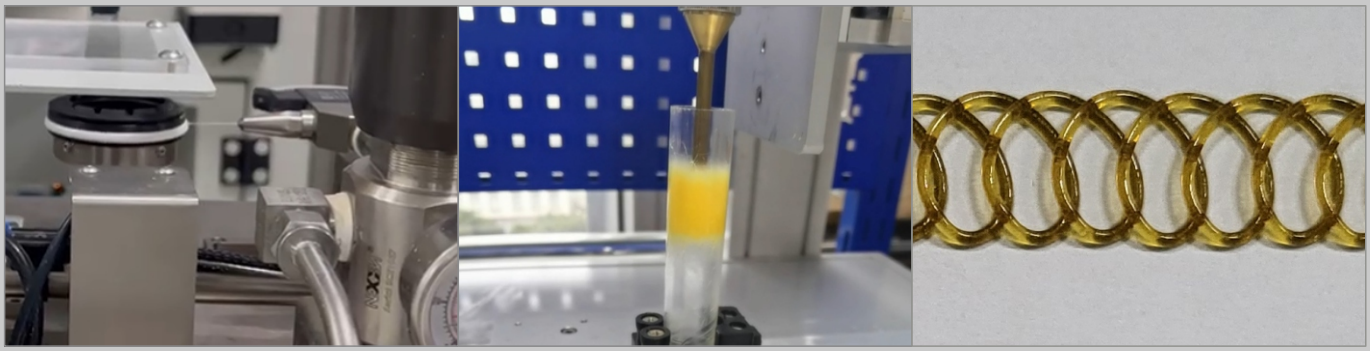


Downstream Upstream

Grease

Application





Normally
No pressure

Max. 1MPa Only
in the whole pressure section

Preventing
Oil Separation Risk

NX - MX4

Direct Control

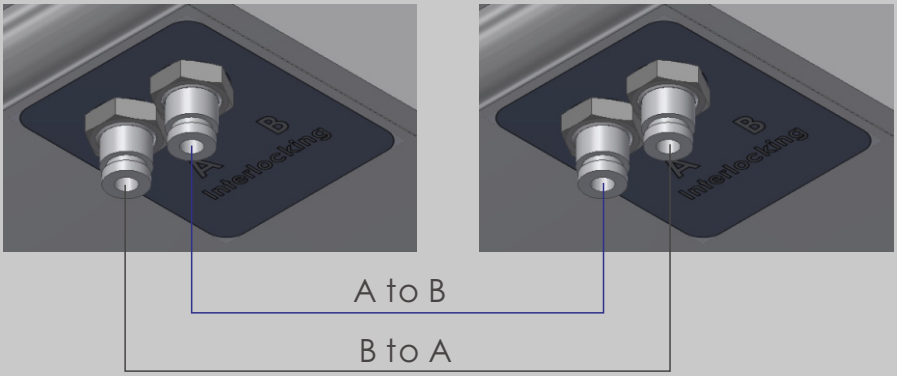
Non-stop

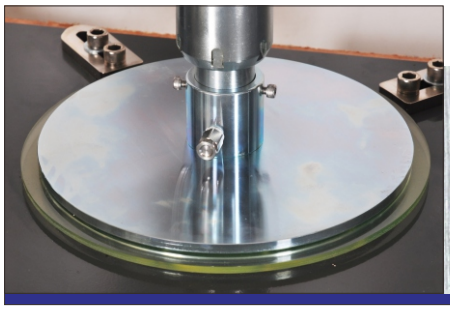
The Efficiency

Interlocking
Non-stop feed

NX Smart Series feed units

ON : Working
ON : Ready
Flash : Glue empty & Auto-changeover





NX Series Feed System

More Compact, Integrated, Smart
And Wider application

NX Smart Series

The optimized NX Smart Series pumps are designed for the innovated feed system to handle the various viscosity and properties glues under much more convenient user interface and the safety.

- Precise dispensing application
- High chemical property's glue application
- High/Low viscosity application in the wider range
- Thermal conductive glue application

Benefits

Powerful / Anti-noise model
NX feed system is a delivery system using a kind of piston pump operated by air pressure to apply various viscosity glues for the production. It gives more comfortable work environment at the manufacturing site.

Max. Life lower pump
It helps to save the wasted times in maintenance.
Beside, it accepts to apply for the feeding the high viscosity glues having a gap fillers.

Integrated module
All functions in 1 unit.
Pressure feeding, pressure regulating, pressure line shut-off, filtering, counting, auto pumping stop and non-stop glue feeding by auto-changing.

Prevention of the air getting into lower pump
The pumping will be automatically stopped, when the glue empty at the lowest position.

The Max. Efficiency and the reasonable system cost
Don't waste your valuable time anymore during the new pail replacing and reset when the glue pail empty.
All NX Smart series pumps will work according to your order can go to the non-stop feeding or single mode.
It's selectable in the two mode.

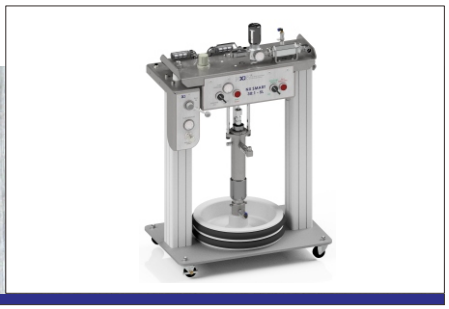
Small area system in the production line
NX feed system doesn't have an additional control unit.
It's the auto-changing system operated by itself.
Consider this compact system size in your production line design.

C8B000

S6B000

C7D000

C2B000



NX Smart Series Digit system

C	2	B	1	1	1

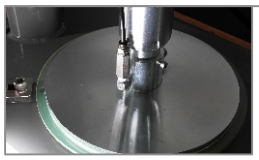
1st Digit : Lower pump model.
C - Max Life lower pump
S - Stainless steel lower pump

4th Digit : Option (pressure control).
0 - None
1 - R5025P (Pressure dampener/regulator/shutoff)

2nd Digit : Pump package model.
2 - NXA100 30:1 / 50cc
3 - NXA050 12:1 / 50cc
4 - NXA100 25:1 / 55cc(ball type)
5 - NXA050 10:1 / 55cc(ball type)
6 - NXA050A 12:1 / 10cc
7 - NXA500 60:1 / 10LPM
8 - NXA300 37:1 / 10LPM
9 - Customizing

5th Digit : Option (manifold/filter).
0 - None
1 - Station Filter(no mesh) SST
2 - Station Filter(#30) SST
3 - Station Filter(#60) SST
4 - Station Filter(#100) SST

6th Digit : Signal lamp.
0 - None
1 - Signal lamp(24DCV)



3rd Digit : Platen type.
A - 1Gallon standard
B - 5Gallon standard(material saving)
C - 5Gallon HV(higher viscosity Materials than 800,000cps)
D - 55Gallon
E - 50~60L
F - Standing type as transit pump(no platen type)
G~Z - Customized Pail size/design

Technical Data

NX Smart Series Feed Units

Model	C2/S2	C3/S3	C6/S6	C7	C8
Max. air inlet pressure(MPa/psi)	0.7 / 100				
Pressure ratio	30:1	12:1	12:1	60:1	37:1
Flow rate(LPM)	5		1	10	
Max. Acceptable viscosity(cps)	1,000,000	600,000	300,000	2,000,000	
Max. Acceptable density(g/cc)	4				
Glue outlet port size	PT(f)1/2"			PT(f)1"	
Weight(kgs)	90			126	

Wetted parts :
Max Life Lower Model : Stainless steel, Carbon steel, PTFE, UHMWPE.
Stainless steel Lower Model : Stainless steel, Ceramic, PTFE, UHMWPE.

S Pump

Compact, The Durable Stainless Steel Pump
1kg ~ 1Gal material package

S Pump-Gen2 For Gap Filler

The S pump is designed to provide the perfect durability especially for all kinds of high density thermal conductive 1K or 2K glue materials' small package like 1kg~1gal.
Feel the perfect supply system with Gap fillers.

- Precise dispensing application
- High chemical property's glue application
- High/Low viscosity application in the wider range
- Thermal conductive glue application

Benefits

High Viscosity Material Feeding
The S pump is designed to supply high viscosity materials for the smaller size material packages than 1gallon.
High density/viscosity all materials accepted.

Max. Life Cycle Time with Ceramic Piston Rod
The S pump internal design by the special piston rod structure is focusing to make better durability,
and its much longer life cycle time with the strong wear resistance. it's ideal for high density thermal conductive 1K or 2K applications.

Made of Stainless Steel
Great chemical resistance. It accepts the using with high chemical component glues like acrylic/acrylate glues.

Oil Cup & Self Adjusting Seal Force
Seal lubricants oil can be applied to avoid the sticky resistance, as well as the moisture protection.
The special Vee-packings stacked structure as itself adjusting the seal force makes much more seal long life cycle time without any tightening.

Compact
The S pump is designed as much smaller size pump with more convenient user interface and maintenance.
But the supply ability as pressure feed unit is very powerful. It will be ideal as desktop feed system.

411000C

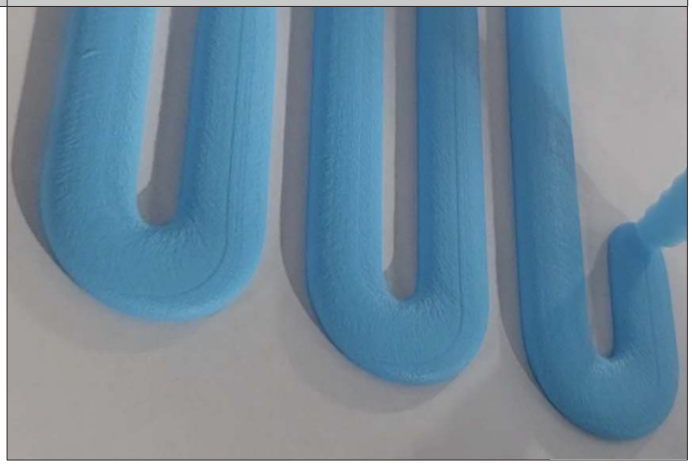
411000

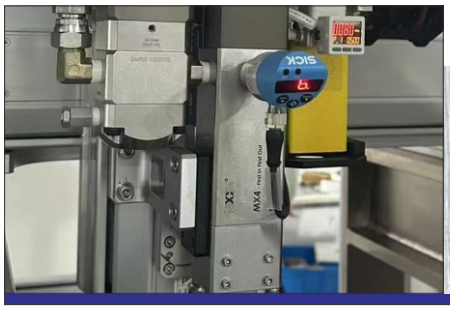
411000D

Technical Data

S Pump-Gen2

Model	S Pump	S Pump Cartridge Feed Single	S Pump Cartridge Feed Double-Auto
Code	411000	411000C	411000D
Max. Acceptable viscosity(cps)	1,000,000	300,000	
Max. Acceptable density(g/cc)	4		
Air inlet pressure(MPa)	0.3~0.7		
Max. fluid outlet pressure(MPa)	8.4		
Flow rate(cc/cycle)	10		
Fluid outlet port size	1/2"		
Weight(kgs)	32	20	21
Size(mm)	340x240x590	320x250x655	
Wetted parts	Ceramic, Stainless steel, PTFE, UHMWPE		





2nd Booster Pump - 1K

The Ceramic FIFO Feeding Unit
Preventing the material separation in the system

MX4

MX4 is designed for the industrial solutions to feed various high viscosity materials with the reliable performance. Especially for the high volume or high speed dispensing applications.

- Safer from material separation(TIM)
- Auxiliary tank function for non-stop feed system
- First In First Out
- Exact pressure feeding and reliable durability

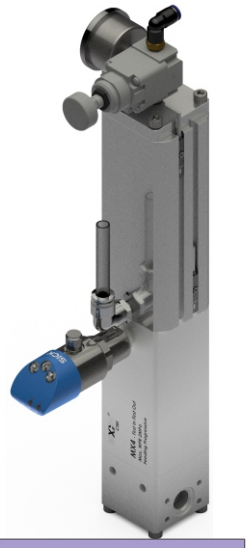
Benefits

Safer from material separation(TIM)
Especially for the thermal interface materials, it has the oil separation easily under pressurized system.
NX and MX4 these two system components make the communication by themselves to avoid the troubles.

Auxiliary tank function for non-stop feed system
It can be an alternative system for the material auto-changing.
If the dispensing process is under the fully automated inline system.

First In First Out
MX4 basically works for FIFO, always keep the material fresh.

Exact pressure feeding and reliable durability
MX4 2nd booster pump resets the 1st feeding material pressure to the exactly desired pressure what the qualified dispensing system needs.
Besides, the ceramic plunger will make sure for the durability.



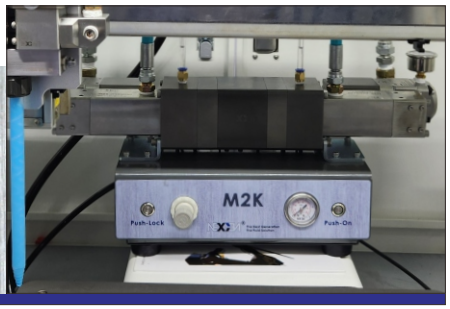
Technical Data

MX4

Model	MX4 (Inlet way Fixed) 112500	MX4 (Inlet way Free) 112500A
Air inlet pressure range(MPa)	0.1~1.0	
Max. recharging volume(cc)	60	
Pressure ratio	4:1	
Air inlet port size	PT(f)1/8"	
Material inlet/outlet port size	PT(f)3/8"	
Sensor port size	PT(f)1/4"	
Weight(kgs)	4.5	
Size(mm)	61x56x345	
Wetted parts	Ceramic, Stainless steel, Tungsten carbide, FKM, PU	

2nd Booster Pump - 2K

The Ceramic/Tungsten Carbide FIFO Feeding Unit
1:1 2K Proportional System

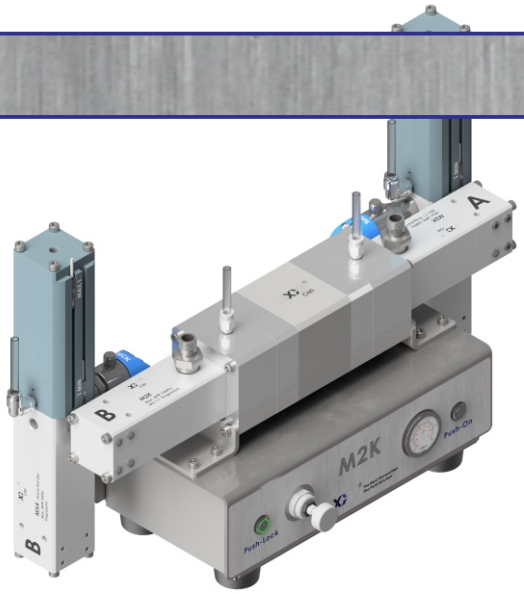


M2K

M2K is designed for the industrial solutions especially for the TIM 2K materials handling in sustainable. The high volume or high speed dispensing applications.

- Safer from material separation(TIM)
- Exact 1:1 Proportion
- First In First Out
- Exact pressure feeding and reliable durability

Benefits



Safer from material separation(TIM)
Especially for the thermal interface materials,
it has the oil separation easily under pressurized system.
NX, MX4, and M2K these integrated 2K system components
make the communication by themselves to avoid the troubles.

Continually 1:1 Booster feeding
The 1st feeding by NX Series feed system will work under normally no pressure condition to feed the TIM materials.
The 2nd MX4 and M2K the combinated system will make the exact 1:1 material supply continually to the DX1 2K.

First In First Out
MX Series basically work for FIFO, always keep the material fresh.

Exact pressure feeding and reliable durability
M2K 2nd booster pump resets the 1st feeding material pressure to the exactly desired pressure what the qualified dispensing system needs.
Besides, all critical parts made of ceramic and tungsten carbide only.

Technical Data

M2K

Model	M2K 113100
Air inlet pressure range(MPa)	0.1~1.0
Max. Discharging volume(cc/s)	20
Max. Discharging pressure(MPa)	6
Mix ratio	1:1
Material inlet/outlet port size	PT(f)3/8"
Air inlet size(OD:mm)	10
Weight(kgs)	20
Size(mm)	540x180x230
Wetted parts	Ceramic, Stainless steel, Tungsten carbide, FKM, PU

Cartridge Feeder

The 300~330cc Cartridge Feeder
Simple & Easy Feed System for the Trial Production

Cartridge 300 Feeder

502300A - Ext. Level Signal

Benefits

As simple line component system
It helps to make your trial test for glue application.
Try it first to learn the glue properties.

Glue empty signal output
This function will let you be aware of the glue going to the empty, It can be applied with various relay system control the system needs.

Fine chemical resistance / made of non-metal
All parts in the wetted parts as glue section are made of a materials having a strong chemical resistance, and made of non-metal parts.

Easy maintenance
It was designed to make users' comfortable operation in easy replacing, cleaning, and its maintenance.

Technical Data

300 Cartridge Feeder

Model	300 Feeder - Ext. Level Signal 502300A
Max. air inlet pressure(MPa/psi)	0.7 / 100
Air inlet port size	PT(f) 1/8"
Signal output	24DCV
Fluid outlet port size	PT(f) 1/4" ~ 1/2"
Wetted parts	POM, FKM

Control Valves

See Next Page

Pressure Control - 3 in 1

The Innovated Control Valves as 3 in 1
By Positive Control

R5025P / R5006P / R5003P

The 3 in 1 control valves are designed for various high viscosity material handling as pressure control, inline shut-off, single way control and etc, it will help the creative and innovative machine building.

- Exact pressure control with dampening the flow surges
- Preventing the pressure back
- Shut-off function integrated
- The durability in the maintenance

Benefits

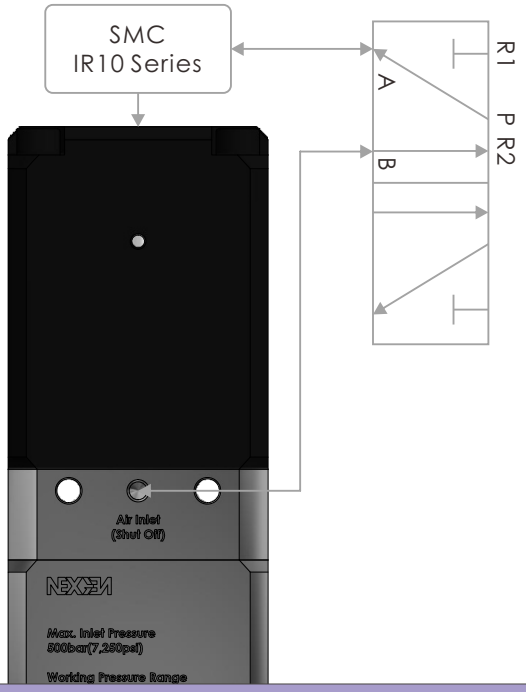
As Simple Inline component system
It helps to make your creative ideas in simple.
3 functions in 1 unit.

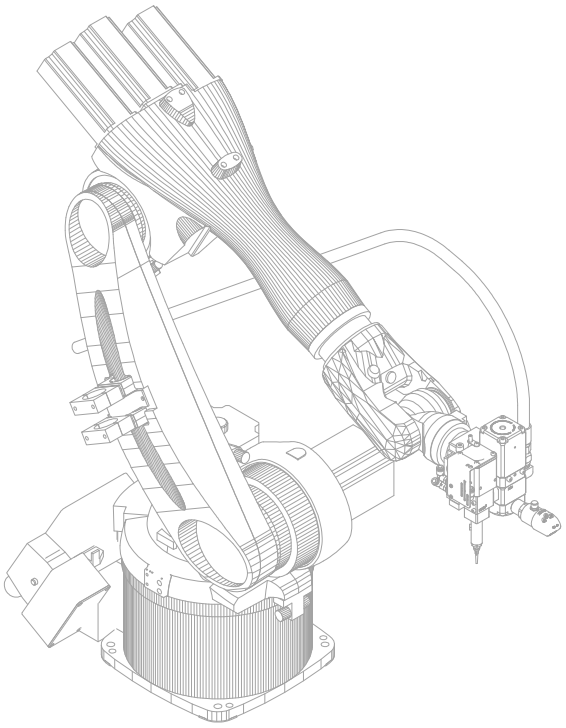
Quality Dispensing
It helps you can setup the sensitive dispensing works under stable pressure feed condition.

Easier mounting on pressure line facility
Unrestricted external design allows for direction free when you install the R50 automatic models on the pressure line, as well as simple mounting. Optimized design makes the compact size/weight to use for high volume/viscosity glue application.

Much longer durability
It was designed with the tungsten carbide ball and seat in internal design to apply for abrasive material's line control.

Stronger resistance for chemical reaction
It made of stainless steel, is available with various glues especially acrylic adhesives.





Technical Data
3 in 1 Control Valves

Model	R5025P 306100	R5006P 306200	R5003P 306300
Max. Viscosity(cps)	1,000,000		
Max. Fluid inlet pressure(MPa)	50		
Air inlet pressure(MPa)	0~1		
Air inlet port size	1/8" / M5(shut-off)		
Pressure control range(MPa)	3~25	0.6~5	0.5~3
Fluid inlet port size	3/8"		
Fluid outlet port size	3/8" (sensor 1/4")		
Size(mm)	60x60x170		
Weight(kgs)	3		
Wetted parts	Tungsten carbide, PTFE, FKM, PU, Stainless steel		

Pressure Control - Negative

The Precise Pressure Control Valves
By Negative Control

R5001P / R5005P

These control valves are ideal for the precise dispensing applications handling a pressure sensitive glues, The comfortable pressure supply condition reset at the 2nd stage will support much more easy setup and teaching.

- Precise pressure reset control at the 2nd stage

Benefits

Quality Dispensing
It helps you can setup the sensitive dispensing works under stable pressure feed condition.

Easier mounting on pressure line facility
Unrestricted external design allows for direction free when you install the R50 automatic models on the pressure line, as well as simple mounting.
Optimized design makes the compact size/weight to use for high volume/viscosity glue application.

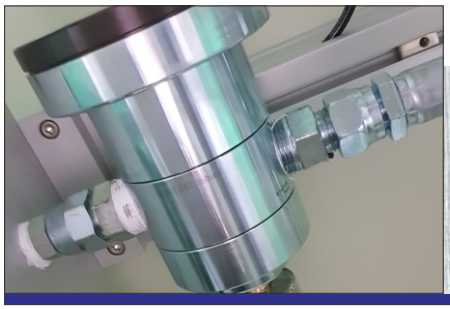
Much longer durability
It was designed with the tungsten carbide ball and seat in internal design.

Stronger resistance for chemical reaction
It made of stainless steel, is available with various glues especially acrylic adhesives.

Technical Data

Control Valves - 2nd Stage Negative

Model	R5001P 307300A	R5005P 307500A
Max. Viscosity(cps)	500,000	1,000,000
Max. Fluid inlet pressure(MPa)	8	
Air inlet pressure(MPa)	0~1	
Air inlet port size	1/8"	
Pressure control range(MPa)	0~0.6	0~5
Fluid inlet port size	3/8"	
Fluid outlet port size	3-1/4"	
Size(mm)	68x68x103	101x101x160
Weight(gs)	1.4	3
Wetted parts	Tungsten carbide, Stainless steel, PTFE	



Pressure Control - Positive

The High Volume Glue Supply with Pressure Control By Positive Control

R7030P / R7015P

These control valves support the fast glue delivery performance at the 1st stage of the whole line system. The 1st stage pressure setup will help safety to the 2nd stage precise pressure reset, or a volumetric system recharging under the stable condition.

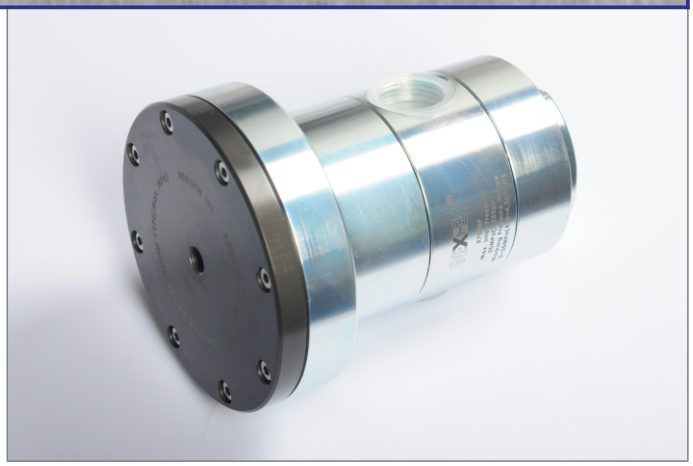
- High volume supply at the 1st stage

Benefits

High Pressure Line Control
It helps you can setup the sensitive dispensing works under stable pressure feed condition.

Preventing the Pressure Back
It prevents a pressure back problem like a flow back from the outlet pressure to the inlet section again.

High Volume and Optimized Compact Size
It's designed to make more light weight dispensing system under high volume supply ability.



Technical Data

Control Valves - 1st Stage Positive

Model	R7030P 305100	R7015P 305200
Max. Viscosity(cps)	1,000,000	
Max. Fluid inlet pressure(MPa)	50	
Air inlet pressure(MPa)	0~1	
Air inlet port size	1/8"	
Pressure control range(MPa)	3~30	2~15
Fluid inlet port size	3/4"	
Fluid outlet port size	3/4"	
Size(mm)	104x104x135	
Weight(kgs)	4	
Wetted parts	Carbon steel, PTFE, FKM, PU	

Pressure Control - Manual

The Precise Pressure Reset at the 2nd Stage By Negative Control

R50 Series Manual

These control valves are ideal for the precise dispensing applications handling a pressure sensitive glues, The comfortable pressure supply condition reset at the 2nd stage will support much more easy setup and teaching.

- Precise pressure reset control at the 2nd stage

Benefits

Quality Dispensing
It helps you can setup the sensitive dispensing works at the 2nd stage.

Easier mounting as inline system components
Simple mounting. Optimized design makes the compact size/weight.

Much Longer Life Cycle Time
R50 series' internal valves made of tungsten carbide to make better durability.

Made of Stainless steel
Great chemical resistance. It accepts the using with high chemical component glues like acrylic/acrylate glues.

Technical Data

Control Valves - 2nd Stage Negative Manual

Model	R5021M 304100	R5016M 304200	R5012M 304300	R5008M 304400	R5005M 304500	R5003M 304600
Working pressure range	11~21MPa	8~16MPa	5~12MPa	2.5~8MPa	1.5~5MPa	0.4~3MPa
Glue inlet pressure	2~6MPa Higher Pressure than the set discharging pressure					
Acceptable viscosity	1~1,000,000cps					
Internal valve material	Tungsten carbide					
Glue inlet port size	3/8" + 1/4"(Gauge port)					
Glue outlet port size	3/8" + 1/4"(Gauge port)					
Weight(kgs)	1.6					
Size(mm)	54x54x(H160)					
Wetted parts	Tungsten carbide, Stainless steel, PTFE, PU					

Dispensing Valves

See Next Page

Progressive Metering

Volumetric Progressive Dispensing
Precise Metering / Mixing / Dosing

PSV / PSD

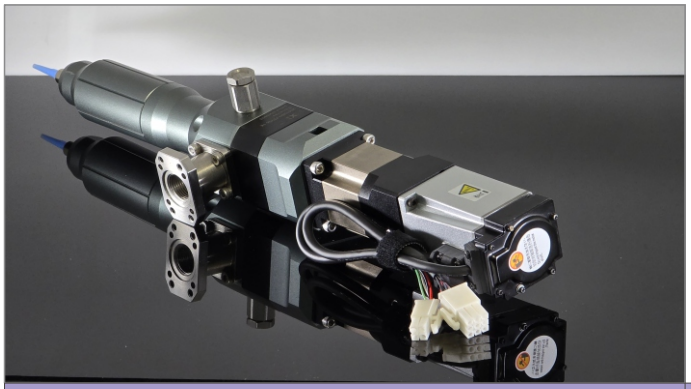
These dispensing valves are focusing on the high precise and quality process dispensing.
The progressive volumetric mechanism integrated for the exact metering/mixing/dosing with UI system.
Operated by scaling volume.

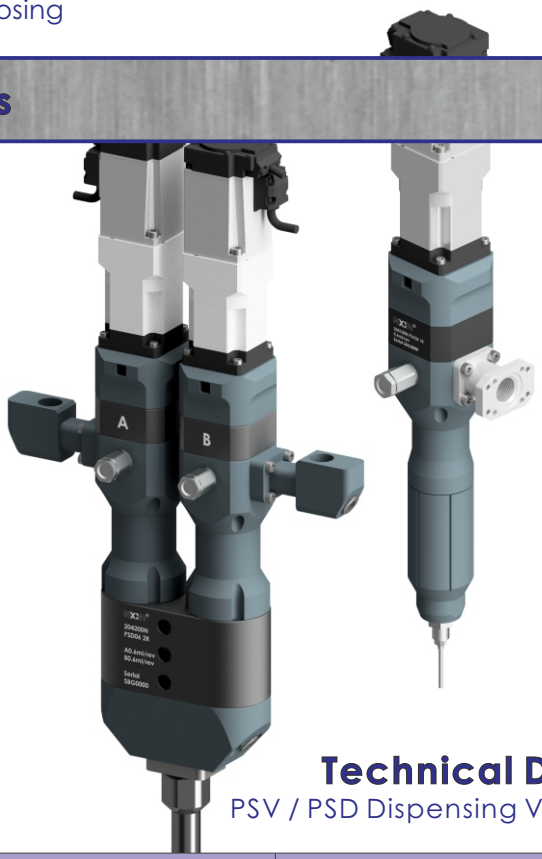
- All in One application as Metering / Mixing / Precise dosing

Benefits

Simple line components as Integrated dosing system
It helps to make the production line in simple.
This integrated dosing system can be applied for much wider and various application.

Easy system and Easy maintenance
This integrated dosing system is available under the easy user interface, whatever you need metering works, precise gasket forming, precise mixing applications, or something you require.





Technical Data

PSV / PSD Dispensing Valves

Model	PSV06 1K 204100N	PSD06 2K 204200N
Max. Glue inlet pressure(MPa)	1.0	
Recommended rpm (TIM)	In 20rpm	
Recommended rpm (Higher Viscosity than 300,000cps)	Max. 120rpm by MX4, Max. 30rpm by R5003P	
Dosing volume(cc/rev)	0.6	1.2@1:1
Rotor / Stator Materials	Rotor : Standard/Ceramic Stator : Standard/Oil/Wear/Chemical	
Glue inlet port size	PT(f)3/8"	
Weight(kgs)	2.2	5.0
Mixing range(based on volume)	1K	1:1~5:1
Wetted parts	Stainless steel, Ceramic, AL, PU, FFKM, FKM, NBR, EPDM	

DX1 Series

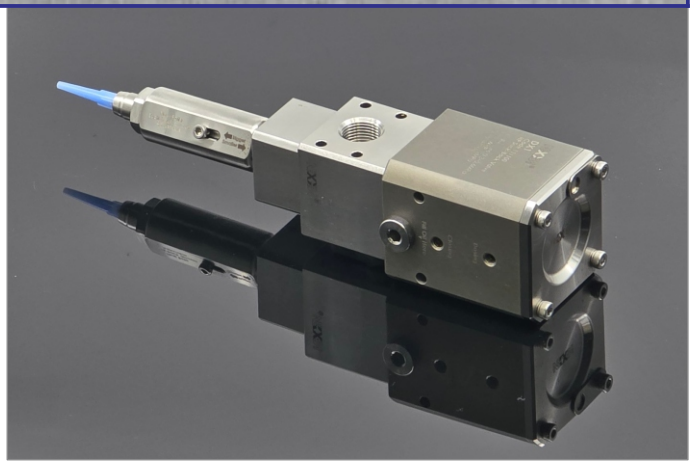
The Best Sustainable Performance with RTV and TIM
High Volume applications

DX1 1K

DX1 1K Dispensing Valve as suck-back type dispensing valve will be ideal for the highest viscous materials or gap fillers dispensing process.

- High viscosity, High Volume handling.
- Much stronger seal life for gap fillers and RTV.
- Flow/Suck back amount adjusting.
- Easy connection to the system components.

Benefits



High viscosity, High volume
Sealant, TIM, the highest viscous materials handling.
3/8" inlet port.

Much stronger seal life for gap fillers and RTV
Basically made of stainless steel,
the spool made of ceramic.
The internal structure designed for the stacked Vee sealing with oil cup.

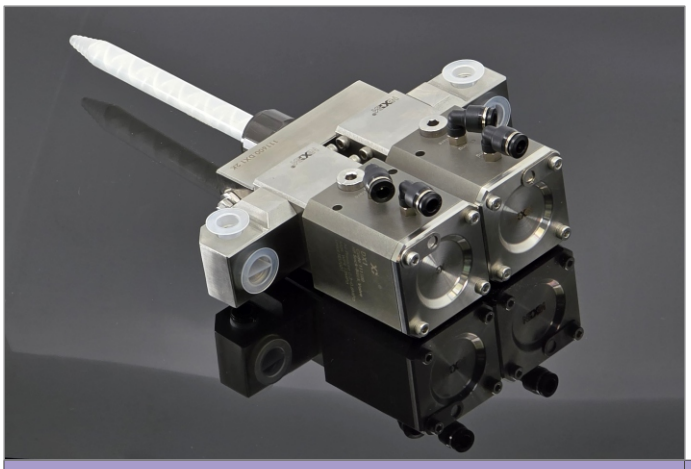
Flow/Suck back amount adjusting
The drip and suck back amount will be affected by the feed pressure, material properties, nozzle and etc.
Do it as the external adjusting and easy setup, even the A/B material viscosity will be extremely different.

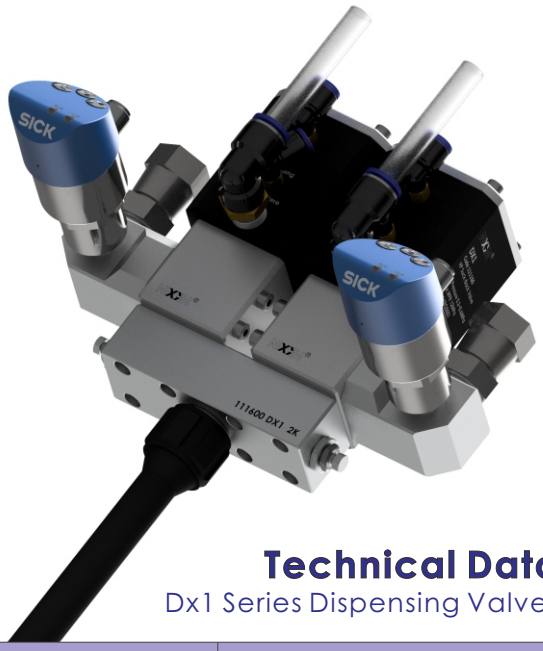
Easy connection
Direct mounting available to the other system components like MX4 or R5006P.
Easy mounting on Z-axis of 3axis robots, or the head of 6axis robots.

DX1 2K

DX1 2K Dispensing Valve as suck-back type dispensing valve is optimized for TIM 2K applications as gap filler dispensing process.

- High viscosity, High Volume handling.
- Much stronger seal life for gap fillers and Humidity curing glues.
- Flow/Suck back amount adjusting.
- Dosing amount/pressure re-balancing with A/B.





Technical Data

Dx1 Series Dispensing Valves

Model	DX1 1K 111100	DX1 2K 111600
Max. Viscosity(cps)	1,000,000	
Max. Fluid inlet pressure(MPa)	12	
Air inlet pressure(MPa)	0.3~1.0	
Air inlet port size	M5	
Fluid inlet port size	3/8" (or direct connection)	
Fluid outlet port size	1/4" (double luer lock)	Static Mixer(bell mouth)
Size(mm)	54x54x135	54x186x161
Weight(gs)	1,400	3,500
Wetted parts	Ceramic, Stainless steel, UHMWPE, FKM, PU	

K Series Dispensing Valve

The Various Applications
with the Compact Machine Integration

K10 Series 1K

K10 Series 1K Dispensing Valves have the special advantages for each model different.

Benefits

K10DS1 - Ceramic valve
Max. life cycle with the great wear resistance.
High pressure suck back valve.

K10DS2 - Stainless steel valve
Good chemical resistance as stainless steel valve.
High pressure suck back valve.

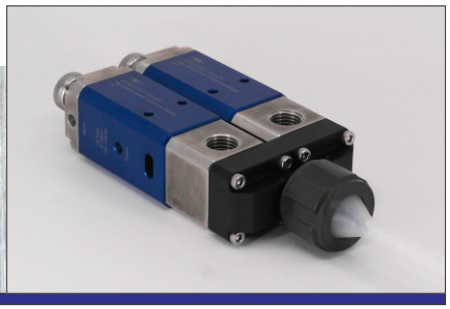
K10DS3 - HV Needle valve
High volume dosing application.
Stainless steel needle valve.

K10DS5 - TC Needle valve
Strong wear resistance by tungsten carbide needle.
High pressure needle valve.

Technical Data

K10 Series 1K Dispensing Valves

Model	K10DS1 103100A	K10DS2 103200A	K10DS3 103300A	K10DS5 103800A
Max. Viscosity(cps)	1,000,000		300,000	1,000,000
Max. Fluid inlet pressure(MPa)	20		5	30
Air inlet pressure(MPa)	0.4~1.0			
Air inlet port size	M5			
Fluid inlet port size	PT(f) 1/4"			
Fluid outlet port size	1/4" (double luer lock)			
Size(mm)	31x31x125			
Weight(gs)	650			
Wetted parts	Ceramic, Tungsten carbide, Stainless steel, FKM, PU			



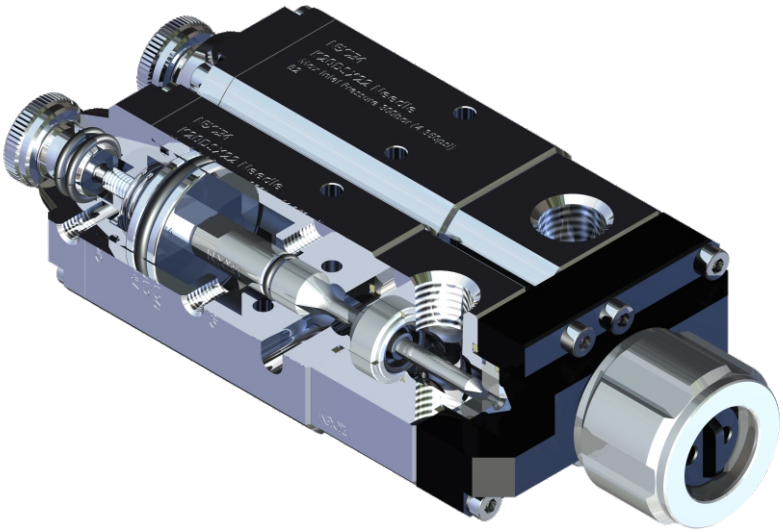
K20 Series 2K

K20 Series 2K Dispensing Valves the combined dispense unit will depend on the real process requirement.

Benefits

Variously combinated 2K modules available
The K20 Series 2K dispensing valves are designed for easy mixing quality setup by adjusting each glue flow rate independently, especially even if the each A/B glue's viscosity difference is large.

Contact NEXGEN Project TST
To get further informations.



Grease Metering Valve

The Volumetric Dispensing
Under Wide Pressure Range

MHV1 / MHV3

MHV Series Metering Valves as volumetric dispensing valve will be ideal for an exact lubricants dispensing process.

- Precise metering.
- Pressure Booster dosing.
- Dosing speed adjustable.

Benefits

Precise metering control.
It helps you can setup easily the sensitive dispensing volume metering desires of automatic production assembly process. Targeting 10mg ~ 3,000mg range.

Booster dosing pressure setup
MHV Series metering valves operate the dosing by air pressure assisted to reset the dose pressure. It will help the dose takt time matched to the real production system.

High pressure & Low pressure
It can be operated by a very flexible and various feed systems, Syringe feed or high pressure pump systems almost material feed systems can meet with the MHV series metering valves' applications.

Installation free
MHV Series metering valves' the internal structure has a very unique design to support much more convenient installation environment, the material inlet port direction free to avoid a complex hose connections in the dose system building.

Technical Data

MHV Series Metering Valves

Model	MHV1 221100	MHV3 221300
Metering range(cc)	0.01~1	0.03~3
Fluid inlet pressure range(MPa)	1~10	0.5~10
Air inlet pressure(MPa)	0.3~1.0	
Air inlet port size	M5	
Fluid inlet / outlet port size	1/8"	
Dosing pressure ratio	9:1	3:1
Size(mm)	32x32x200	
Weight(gs)	820	800
Wetted parts	Stainless steel, UHMWPE, NBR, PU, POM	

Accessories

See Next Page

Accessories

Filters, Spray Nozzle

HP Inline Filters 3/4"

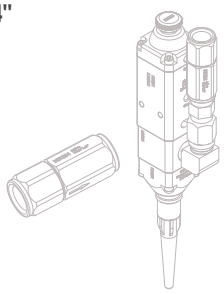
Stainless steel
Inlet/Outlet port 3/4"
Max.30MPa

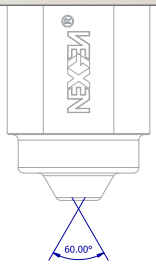
503030S #30
503060S #60
503100S #100

HP Inline Filters 1/4"

Stainless steel
Inlet/Outlet port 1/4"
Max.30MPa

501030 #30
501060 #60
501080 #80
501100 #100
501150 #150
501200 #200
501300 #300

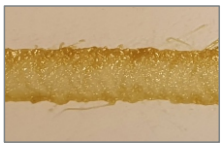


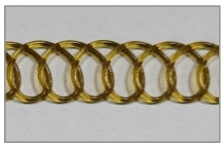


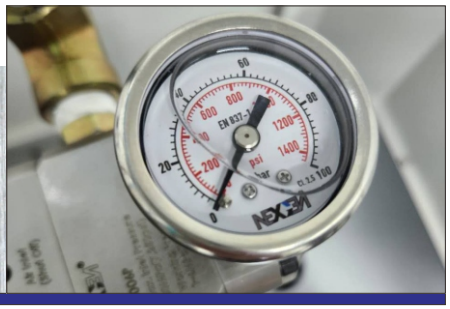
Technical Data

Spiral&Spray Kit-Pattern Adjustable

Model	Spiral & Spray Kit 109100
Working air pressure range	0.1~1MPa
Nozzle orifice	1~2mm diameter
Air inlet port size	M5
Material inlet port size	PT(f) 1/8"
Weight(gs)	90
Size(mm)	26x26x43







Accessories

APV, Single Way Valves
Needle Adapters, Pressure Gauges

APV

406800 APV(Auto Purge Valve)
It's very useful for Grease or non-curing material handling

Single Way Valves

Made of Stainless Steel and Tungsten Carbide

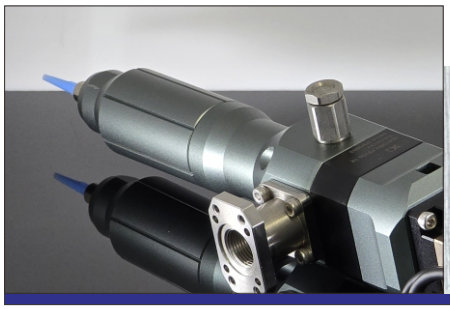
505300 1/2", 30MPa, Tungsten Carbide(0.25MPa)
505300A 1/2", 1MPa, UHMWPE(0.1MPa)
505100 1/4", 30MPa, Tungsten Carbide(0.4MPa)
505100A 1/4", 30MPa, Tungsten Carbide(0.1MPa)
505100B 1/4", 1MPa, PTFE(0.4MPa)

Needle Adapters

002201 Needle adapter 1/4",stainless steel
002202 Needle adapter 1/8",non-metallic
002203 Syringe adapter 1/4",stainless steel

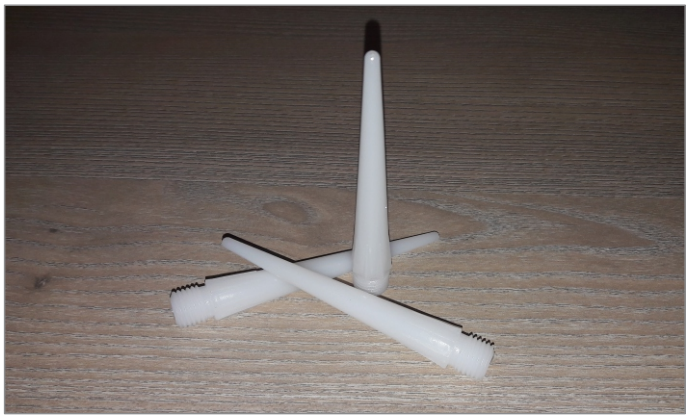
Pressure Gauges

000141 1/4", 0~10bar
000142 1/4", 0~100bar
000144 1/4", 0~200bar
000143 1/4", 0~400bar



Accessories

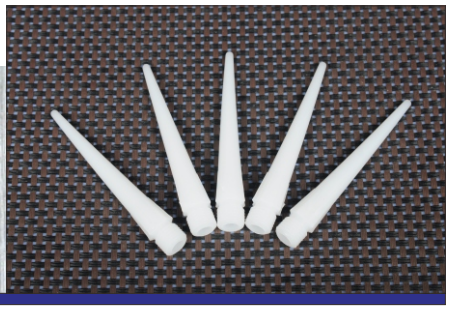
Nozzles, Needles



Nozzle

002000 Disposable HDPE
knife cut-off type nozzle 1/4"

Nozzles TT	Code	Color	ID(mm)
	002310	Light Green	3.00(10G)
	002311	Light Orange	2.50(11G)
	002313	Light Blue	2.00(13G)
	002314	Olive Green	1.64(14G)
	002316	Gray	1.25(16G)
	002318	Green	0.90(18G)
	002320	Pink	0.60(20G)
	002322	Blue	0.42(22G)
	002325	Red	0.26(25G)
	002327	Transparent	0.21(27G)

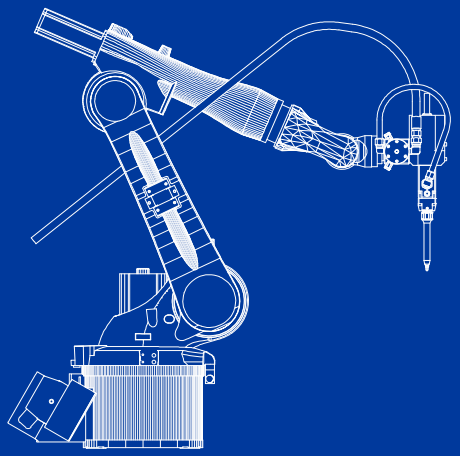


Needles PE+SST	Code	Color	ID(mm)
	012413	Clear	1.80(13G)
	012414	Olive Green	1.64(14G)
	012415	Amber	1.40(15G)
	012416	Gray	1.25(16G)
	012417	Amber	1.10(17G)
	012418	Green	0.90(18G)
	012419	Brown	0.72(19G)
	012420	Pink	0.60(20G)
	012421	Purple	0.52(21G)
	012422	Blue	0.42(22G)
	012423	Orange	0.34(23G)
	012424	Red	0.31(24G)
	012425	Scarlet	0.26(25G)
	012426	Apricot	0.25(26G)
	012427	Transparent	0.21(27G)

Needles SST	Code (25L)	Code (50L)	ID(mm)
	022508	032508	3.50(8G)
	022510	032510	3.2(10G)
	022511	032511	2.80(11G)
	022512	032512	2.20(12G)
	022513	032513	1.92(13G)
	022514	032514	1.64(14G)
	022515	032515	1.43(15G)
	022516	032516	1.25(16G)
	022517	032517	1.11(17G)
	022518		0.92(18G)
	022519		0.72(19G)
	022520		0.61(20G)
	022521		0.52(21G)
	022522		0.42(22G)
	022523		0.34(23G)
	022524		0.31(24G)

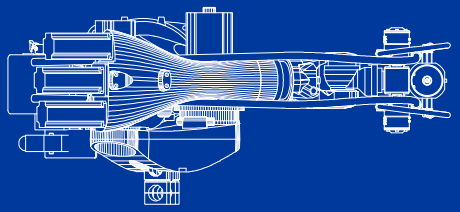
Guidance

Material Handling

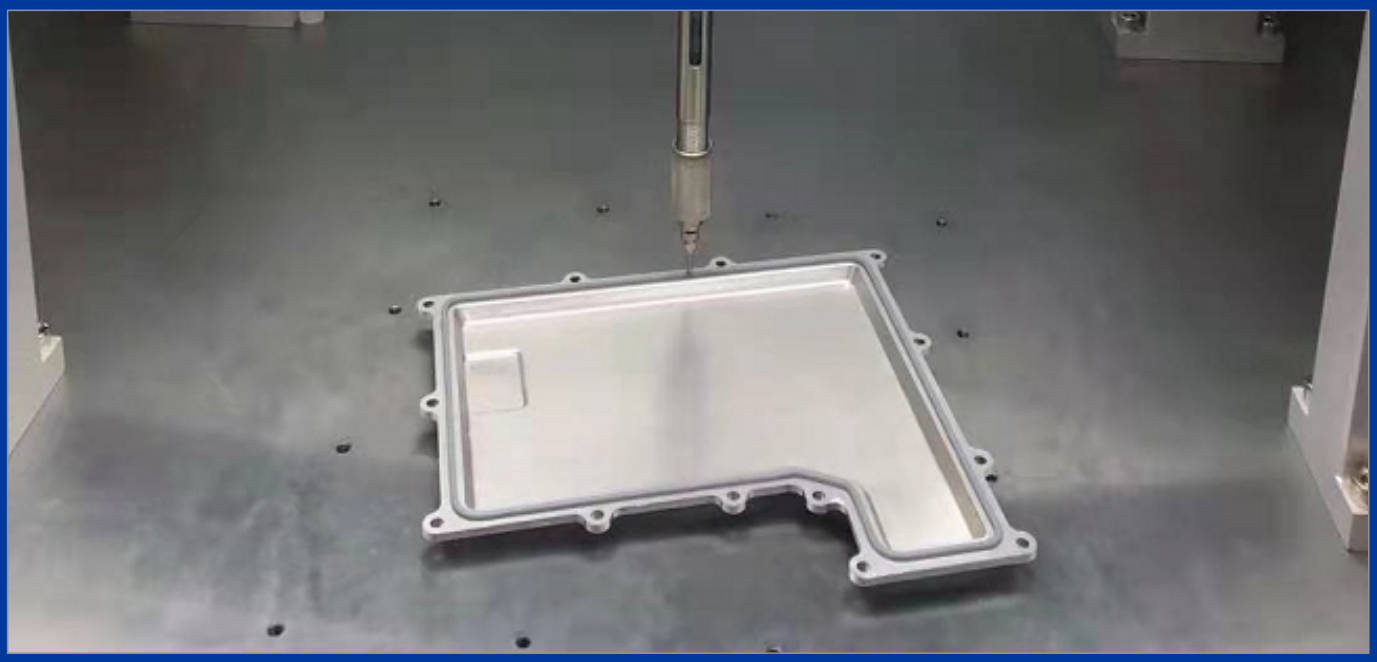


Volume changed by pressure.
All materials have the different volumes
under the pressurized condition.
For precise metering, volume and pressure,
the both constant condition should be sustainable
for every process cycle.

Bubble creation under vacuum condition.
Material itself can create the bubbles
when the material is under the extremely exceeding
vacuum rate or suddenly extending volume changing.
If the system face this kind of troubles, reset all material
system handling to be more gradual.



Material separation troubles.
Especially for the thermal conductive materials,
almost one containing fillers having the different
property, gravity, and density in the base paste.
it can be easily separated by the pressurized material
handling. Also this problem turns to the more serious troubles
like line block, frequently machine repair and maintenance,
system components damaging, unstable and poor thermal conductivity.
How to be more sustainable?
We NEXGEN Project TST will support your own process to be sustainable
and much more efficiently.



RTV glue curing.
Basically RTV glues are reacted by humidity, and curing starts.
All material supply and dispensing section should be clearly sealed to prevent the contact of the air having the humidity.
But it's not easy to apply how to prevent all the contact.
It related to all system components by the professional and experienced knowledge, and also how to setup without any blocking of the cured materials.

Material hose replacing as maintenance part.
Basically the material supply in the hose is for FIFO(First In First Out).
But almost high viscosity materials the property could change at the hose inside as time passes, because the material flow speed absolutely different between the hose wall surface and the hose central,
even the hose inner material made of PTFE.
The material section of the poor flowability in the hose wall side could be cured or hardening as time passes,
and then the hardening glues in the section will be getting bigger.
One day the material supply rate will be seriously drop down,
or the hardening particles flow to the system components to be troubled.
That's why the material hose should be replaced periodically.

Oil separation.
Grease, or TIM materials commonly compounded with oil.
Some of Grease, it has a risk of oil separation under the pressure feeding system.
Basically the risk occurs more seriously at the section of the pressure difference.
NEXGEN Project TST, we have the best solution without the risk.

Guidance

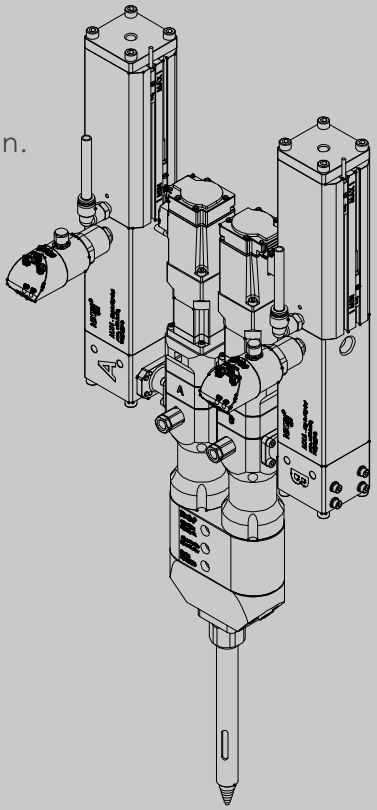
Mechanical Property

How to choose the correct pressure regulator in the system.
NEXGEN has many kinds of pressure regulators as supply system components targeting all different results as follows...

Positive Type Pressure Regulator	Negative Type Pressure Regulator
Commonly 1st Stage control	Commonly 2nd Stage control
Wider pressure range	Precise pressure setup
Enough higher pressure for inlet	Little higher pressure for inlet
Preventing backflow	Having a risk of backflow
Pressure drop than setup pressure	Pressure keep as setup pressure

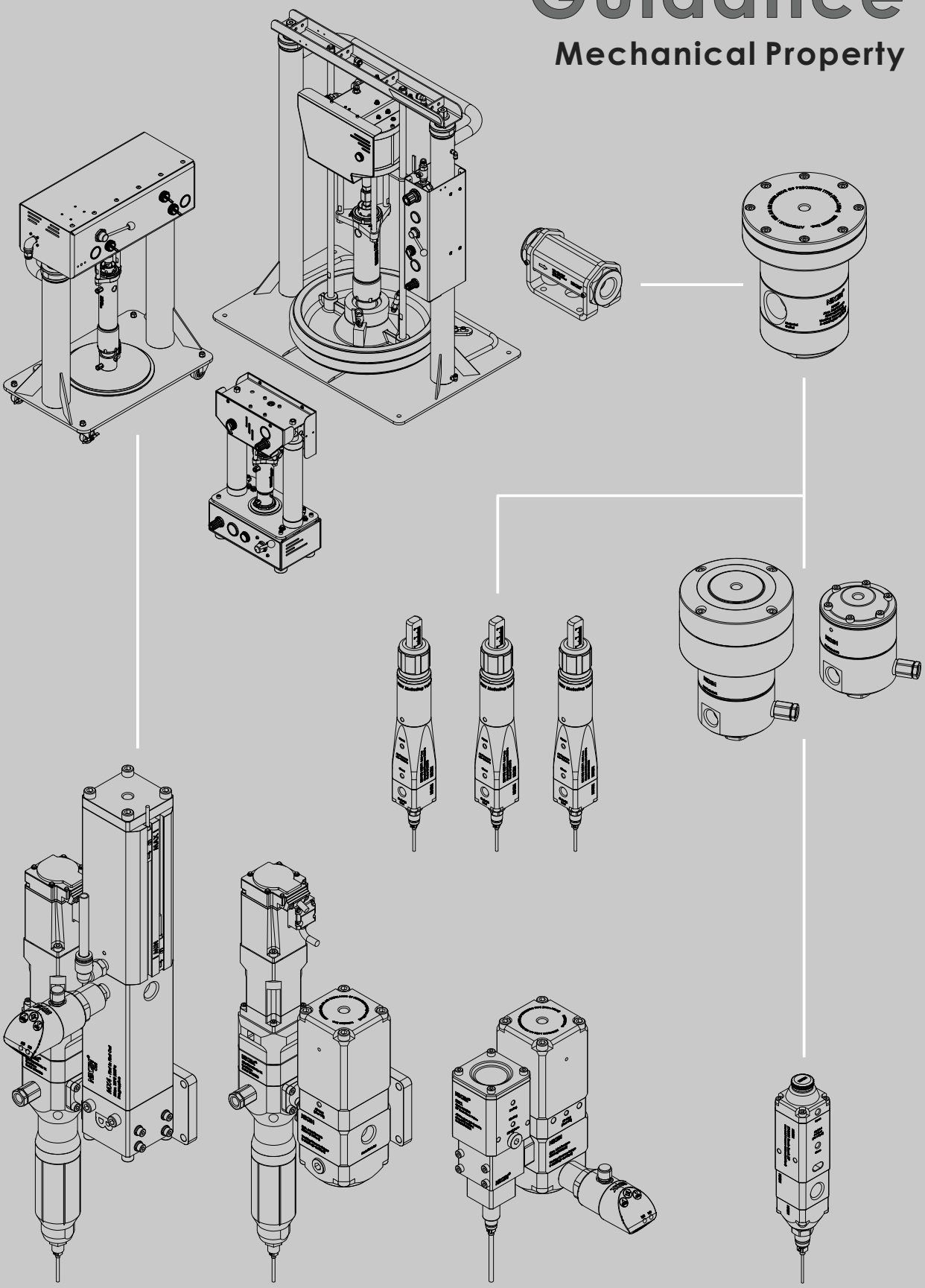
Downstream / Upstream in the dispensing system.
How to design the system components layout for the real dispensing process.
The ideas will be absolutely different by the glue properties,
real system components location,
process cycle requirements and etc.
Contact NEXGEN Project TST with the system information.
We will support the system to be efficiently and sustainable.

Glue TDS / SDS.
Process requirements.
Distance from the glue feeding system to the dispensing station.



Guidance

Mechanical Property



If you need further information, please contact NEXGEN Project TST or Local Authorized Distributor.
They will give you their best support in the technical and professional experience.

The Next Generation
The Fluid Solution

Headquaters

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