

# NOVAG SPRAY EQUIPMENT

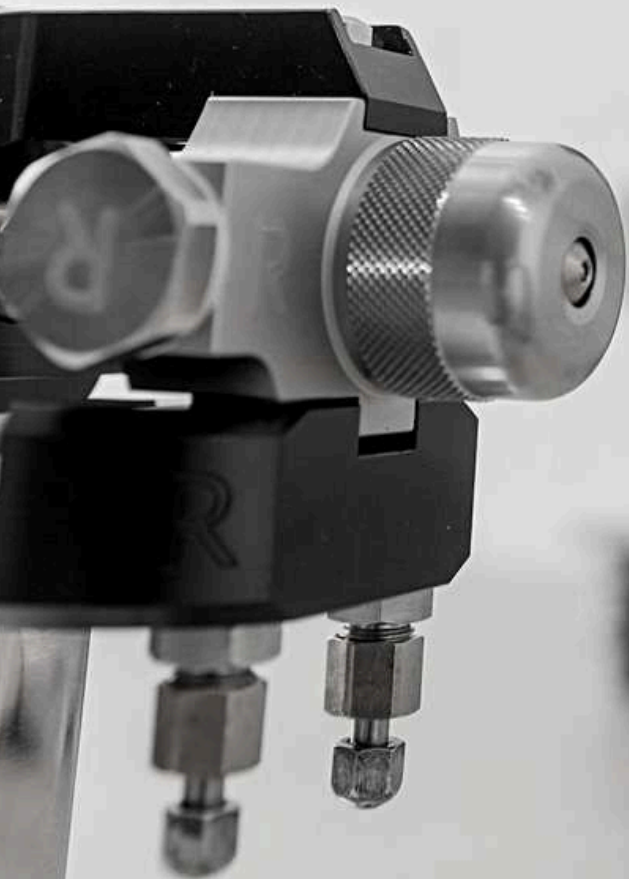
POLYURETHANE FOAM, COATINGS AND POLYUREAS



novag  <sup>®</sup>  
SPRAY EQUIPMENT



The NOVAG team specializes in the design, innovation and development of two component spray and pouring equipment, offering the experience and knowledge needed to fulfil the current technology demands, supplying reliable and high quality products.





## ABOUT US

**NOVAG SPRAY EQUIPMENT** is a high quality brand manufactured by HI-TECH SPRAY EQUIPMENT S.A. NOVAG brand offers two component spray and pouring equipment for the application of polyurethane foams, coatings and polyurea, mineral wool blowing machines, water reactive PU foam injection equipment and 2K bitumen waterproofing emulsions equipment.

NOVAG has over 20 years experience supplying first class machinery to major insulation waterproofing companies and chemical suppliers all over the world. Our commitment is based on the constant search for innovation to ensure the excellence of our products in the market.

TRUST COMMITMENT  
EXPERIENCE INNOVATION TRUST  
TRUST INNOVATION COMMITMENT EXPERIENCE  
COMMITMENT TRUST EXPERIENCE INNOVATION

# HYDRAULIC PROPORTIONING UNITS



## NOVAG I SINGLE-PHASE

The NOVAG I single-phase hydraulic spray unit has been designed with a specific configuration that allows easy access to all its components, simplifying the control functions and reducing maintenance time. NOVAG I assures constant pressures and perfect mixing to fulfil the most demanding requirements of two component systems.



## TECHNICAL SPECIFICATIONS

<b>MAX. OUTPUT:</b>	4 kg/min
<b>MAX. PRESSURE:</b>	175 bar
<b>ELECTRICAL CONNECTION:</b>	1NPE 230 V 50 Hz 2PE 230 V 50 Hz
<b>HEATING POWER:</b>	3,6 kW
<b>HOSE HEATING:</b>	1,6 kW (optional)
<b>MOTOR POWER:</b>	1,8 kW
<b>MACHINE CONSUMPTION:</b>	Recirculation hoses: 12A + 16A - 2 plugs 230 V heated hoses: 16A + 16A - 2 plugs LV heated hoses: 12A + 16A + 9A - 3 plugs
<b>MAX. HOSES LENGTH:</b>	Recirculation hoses: 11 m 230 V heated hoses: 20 m LV heated hoses: 48 m (chariot transformateur)
<b>WEIGHT:</b>	165 kg (without oil/product)
<b>MAX. TANK CAPACITY:</b>	30 l + 30 l
<b>OIL CAPACITY:</b>	18 l
<b>DIMENSIONS:</b>	1228 mm x 605 mm x 819 mm

## NOVAG I THREE-PHASE

**NOVAG I three-phase.** Same versatility and easy to use like single-phase version but with the extra power of a three-phase motor to increase maximum output and pressure capabilities.



### TECHNICAL SPECIFICATIONS

**MAX. OUTPUT:** 10 kg/min @ 110 bar (7.6 pumps)  
5 kg/min @ 160 bar (4.5 pumps)

**ELECTRICAL CONNECTION:** 3PE 400 V 50/60 Hz

**HEATING POWER:** 6 kW

**HOSE HEATING:** 3 kW

**MOTOR POWER:** 3 kW

**MACHINE CONSUMPTION:** 23 A

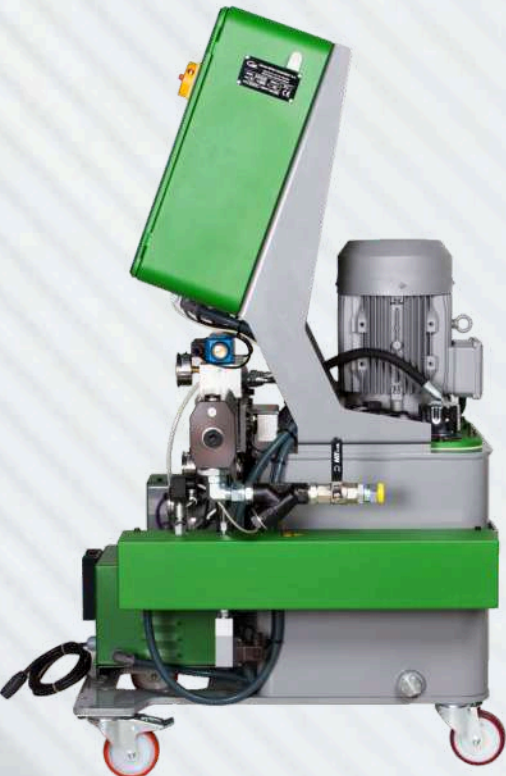
**MAX. HOSES LENGTH:** 93 m (for foam)  
63 m (for polyurea)

**WEIGHT:** 190 kg (without oil)

**OIL CAPACITY:** 18 l

**DIMENSIONS:** 1165 mm x 605 mm x 744 mm

# HYDRAULIC PROPORTIONING UNITS



## NOVAG III

The NOVAG III hydraulic spray unit has been designed and manufactured to spray PU foam, polyurea or coatings in large areas with the same pump configuration. This concept design allows the necessary output and pressure stability to maintain the required productivity levels on every application. Its open design allows easy access to all its components providing simplified function control and maintenance.

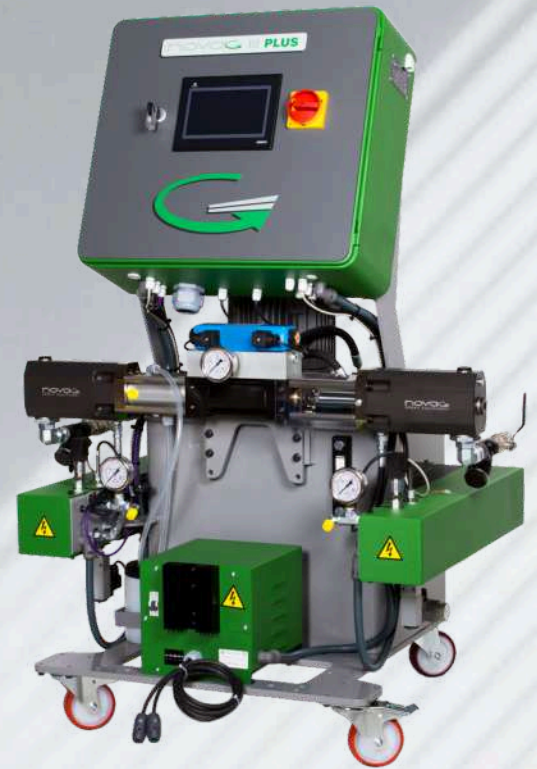
## TECHNICAL SPECIFICATIONS



<b>MAX. OUTPUT (1.20 PUMPS):</b>	15 kg/min @ 110 bar 9 kg/min @ 160 bar 7 kg/min @ 240 bar
<b>ELECTRICAL CONNECTION:</b>	3 PE 400 V 50/60 Hz 3 PE 230 V 50/60 Hz
<b>HEATING POWER:</b>	12 kW
<b>HOSE HEATING:</b>	3 kW
<b>MOTOR POWER:</b>	4 kW
<b>MACHINE CONSUMPTION:</b>	38,4 A / 66,6 A
<b>MAX. HOSES LENGTH:</b>	93 m (for foam) 78 m (for polyurea)
<b>WEIGHT:</b>	261 kg (without oil)
<b>OIL CAPACITY:</b>	59 l
<b>DIMENSIONS:</b>	1352 mm x 945 mm x 745 mm

## NOVAG III PLUS

The **NOVAG III PLUS** hydraulic spray unit is the PLC operated version of the NOVAG III unit. This intelligent PLC software system offers the user full control and application information at all times from its own touchscreen display. Also, it allows the end user to enter the application parameters of each system that will be automatically adjusted by the machine. In auto mode operator intervention will be minimized while the application process will be protected by a sophisticated alarm system that will detect any errors in the process to ensure due quality during the application of the system. Units equipped with PLC can be connected through a wi-fi router to external devices (phone, tablet, etc.) for a remote control and operation of the unit.



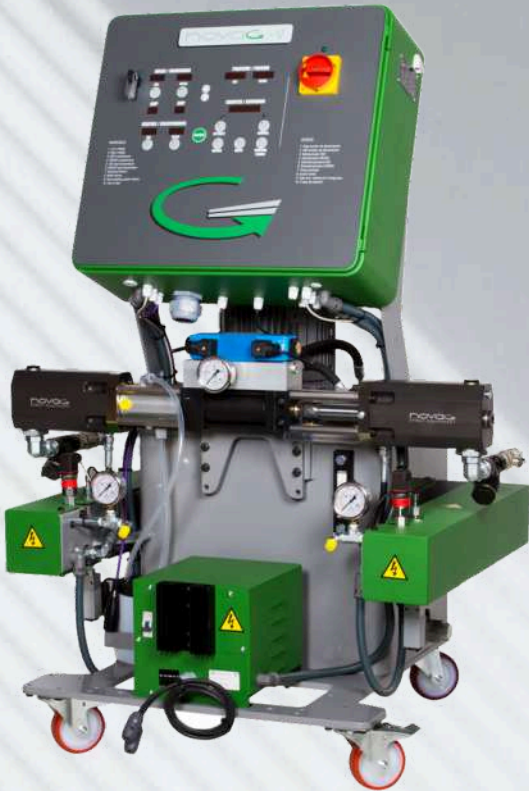
## TECHNICAL SPECIFICATIONS



<b>MAX. OUTPUT (1.20 PUMPS):</b>	15 kg/min @ 110 bar 9 kg/min @ 160 bar 7 kg/min @ 240 bar
<b>ELECTRICAL CONNECTION:</b>	3 PE 400 V 50/60 Hz 3 PE 230 V 50/60 Hz
<b>HEATING POWER:</b>	12 kW
<b>HOSE HEATING:</b>	3 kW
<b>MOTOR POWER:</b>	4 kW
<b>MACHINE CONSUMPTION:</b>	38,4 A / 66,6 A
<b>MAX. HOSES LENGTH:</b>	93 m (for foam) 78 m (for polyurea)
<b>WEIGHT:</b>	262 kg (without oil)
<b>OIL CAPACITY:</b>	59 l
<b>DIMENSIONS:</b>	1352 mm x 945 mm x 745 mm



# HYDRAULIC PROPORTIONING UNITS



## NOVAG V

The **NOVAG V** hydraulic spray unit has been designed and manufactured with the same features that the rest of the NOVAG product family, incorporating a bigger electrical motor, a hydraulic pump and heaters for projects that require high productivity levels. NOVAG V provides constant pressures and temperatures working at high outputs in PU foam, polyurea or coatings applications.

## TECHNICAL SPECIFICATIONS

<b>MAX. OUTPUT (1.20 PUMPS):</b>	22 kg/min @ 110 bar 17 kg/min @ 160 bar 12 kg/min @ 240 bar
<b>ELECTRICAL CONNECTION:</b>	3 PE 400 V 50/60 Hz
<b>HEATING POWER:</b>	16 kW
<b>HOSE HEATING:</b>	4 kW
<b>MOTOR POWER:</b>	5,5 kW
<b>MACHINE CONSUMPTION;</b>	56 A
<b>MAX. HOSES LENGTH:</b>	93 m
<b>WEIGHT:</b>	279 kg (without oil)
<b>OIL CAPACITY:</b>	59 l
<b>DIMENSIONS:</b>	1352 mm x 945 mm x 745 mm

## NOVAG V PLUS

The **NOVAG V PLUS** hydraulic spray unit is the PLC operated version of the NOVAG V unit. It has been designed and manufactured with the same features that the rest of the NOVAG PLUS product family, incorporating bigger engine, hydraulic pumps and heaters for projects that require high productivity levels.

## TECHNICAL SPECIFICATIONS

<b>MAX. OUTPUT (1.20 PUMPS):</b>	22 kg/min @ 110 bar 17 kg/min @ 160 bar 12 kg/min @ 240 bar
<b>ELECTRICAL CONNECTION:</b>	3 PE 400 V 50/60 Hz
<b>HEATING POWER:</b>	16 kW
<b>HOSE HEATING:</b>	4 kW
<b>MOTOR POWER:</b>	5,5 kW
<b>MACHINE CONSUMPTION:</b>	56 A
<b>MAX. HOSES LENGTH:</b>	93 m
<b>WEIGHT:</b>	279 kg (without oil)
<b>OIL CAPACITY:</b>	59 l
<b>DIMENSIONS:</b>	1352 mm x 945 mm x 745 mm



# HYDRAULIC PROPORTIONING UNITS

## G-CONNECT

Maximum connectivity to control and analyse your Foam and Polyurea applications!

Intuitive smart touch screen

Hydraulic power to assure constant pressures and ratio control



2x 6000 W heating power

240 bar maximum pressure

## G-CONNECT

The **G-Connect** is the most powerful digital unit in the market. It has total connectivity plus the power and reliability of hydraulics in a single unit to analyse the foam and polyurea applications from any mobile device.

## TECHNICAL SPECIFICATIONS

<b>MAX. OUTPUT (1.20 PUMPS):</b>	15 kg/min @ 110 bar 9 kg/min @ 160 bar 7 kg/min @ 240 bar
<b>ELECTRICAL CONNECTION:</b>	3 PE 400 V 50/60 Hz 3PE 230 V 60 Hz
<b>HEATING POWER:</b>	12 kW
<b>HOSE HEATING:</b>	4 kW
<b>MOTOR POWER:</b>	4 kW
<b>MACHINE CONSUMPTION;</b>	38,4 A / 66,8 A
<b>MAX. HOSES LENGTH:</b>	93 m
<b>WEIGHT:</b>	242 kg (without oil)
<b>OIL CAPACITY:</b>	28 l
<b>DIMENSIONS:</b>	1295 mm x 745 mm x 650 mm



# HYDRAULIC PROPORTIONING UNITS

## G-CONNECT +

The G-Connect+ has the same features as the G-Connect unit offering the extra power of a bigger motor and hydraulic pump to increase maximum output and pressure capabilities.

## TECHNICAL SPECIFICATIONS

**MAX. OUTPUT (1.20 PUMPS):** 22 kg/min @ 110 bar  
17 kg/min @ 160 bar  
12 kg/min @ 240 bar

**ELECTRICAL CONNECTION:** 3 PE 400 V 50/60 Hz  
3PE 230 V 50 Hz

**HEATING POWER:** 16 kW

**HOSE HEATING:** 4 kW

**MOTOR POWER:** 5,5 kW

**MACHINE CONSUMPTION;** 51,1 A / 89 A

**MAX. HOSES LENGTH:** 93 m

**WEIGHT:** 260 kg (without oil)

**OIL CAPACITY:** 28 l

**DIMENSIONS:** 1295 mm x 745 mm x 650 mm



## NA-200

The **NA-200** hydraulic airless unit incorporates technology that allows you to paint at high pressure without the need of an air compressor. It is specially manufactured to spray professional textures in challenging industrial painting applications. This hydraulic unit can be equipped with a petrol engine or electric motor to drive the piston pump. You can easily interchange these engines thanks to our smart concept design.



## TECHNICAL SPECIFICATIONS

### GASOLINE NA-200G

<b>MAX. OUTPUT:</b>	6,4 l/min
<b>MAX. WORKING PRESSURE:</b>	228 bar
<b>MAX. SIZE PCD:</b>	1 Gun - 0.043" / 2 Guns - 0,033"
<b>ENGINE:</b>	4 kW (5,5 HP)
<b>WEIGHT:</b>	72 Kg (without oil/product)
<b>DIMENSIONS:</b>	840 mm x 1200 mm x 1080 mm

### ELECTRIC NA-200E

<b>MAX. OUTPUT:</b>	5,7 l/min
<b>MAX. WORKING PRESSURE:</b>	228 bar
<b>MAX. SIZE PCD:</b>	1 Gun - 0.036" / 2 Guns - 0,026"
<b>ENGINE:</b>	3 kW (4 HP)
<b>WEIGHT:</b>	66 Kg (without oil/product)
<b>DIMENSIONS:</b>	840 mm x 1200 mm x 1080 mm





## TECHNICAL SPECIFICATIONS SUMMARY

	MAX. OUTPUT	MAX. PRESSURE	ELECTRICAL CONNECTION OPTIONS	HEATING POWER	HOSE HEATING
NOVAG I SINGLE-PHASE 	4 kg/min	175 bar	1NPE 230V 50Hz 2PE 230V 50Hz	3,6 kW	1,6 kW (optional)
NOVAG I THREE-PHASE 	10 kg/min 5 kg/min	110 bar 160 bar	3PE 400V 50/60 Hz	6 kW	3 kW
NOVAG III 	15 kg/min 9 kg/min 7 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz 3PE 230V 50/60 Hz	12 kW	3 kW
NOVAG III PLUS 	15 kg/min 9 kg/min 7 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz 3PE 230V 50/60 Hz	12 kW	3 kW
NOVAG V 	22 kg/min 17 kg/min 12 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz	16 kW	4 kW
NOVAG V PLUS 	22 kg/min 17 kg/min 12 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz	16 kW	4 kW
G-CONNECT 	15 kg/min 9 kg/min 7 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz 3PE 230V 60 Hz	12 kW	4 kW
G-CONNECT+ 	22 kg/min 17 kg/min 12 kg/min	110 bar 160 bar 240 bar	3PE 400V 50/60 Hz 3PE 230V 50Hz	16 kW	4 kW

MOTOR POWER	MACHINE CONSUMPTION	MAX. HOSES LENGTH	WEIGHT	CAPACITY	DIMENSIONS
1,8 kW	12A + 16A - 2 plugs	Recirculation hoses: 11 m	165 kg	30l + 30l (tank)	H: 1228 mm
	16A + 16A - 2 plugs	230V heated hoses: 20 m		18l (oil)	W: 605 mm
	12A + 16A + 9A - 3 plugs	LV heated hoses: 48 m			L: 819 mm
3 kW	23A	93 (for foam) 63 (for polyurea)	190 kg	18l (oil)	H: 1165 mm W: 605 mm L: 744 mm
4 kW	38,4 A / 66,6A	93 m (for foam) 78 m (for polyurea)	261 kg	59l (oil)	H: 1352 mm W: 945 mm L: 745 mm
4 kW	38,4 A / 66,6A	93 m (for foam) 78 m (for polyurea)	262 kg	59l (oil)	H: 1352 mm W: 945 mm L: 745 mm
5,5 kW	56 A	93 m	279 kg	59l (oil)	H: 1352 mm W: 945 mm L: 745 mm
5,5 kW	56 A	93 m	279 kg	59l (oil)	H: 1352 mm W: 945 mm L: 745 mm
4 kW	38,4 A / 66,8 A	93 m	242 kg	28l (oil)	H: 1295 mm W: 745 mm L: 650 mm
5,5 kW	51,1 A / 89 A	93 m	260 kg	28l (oil)	H: 1295 mm W: 745 mm L: 650 mm

# SPRAY GUNS



## NOVAG A

### Air Purge

The **NOVAG A** air purge spray gun ensures a high-pressure internal mixing of two components for the application of polyurethane foam, coatings and polyurea. Its easy handling helps to reduce operator effort and facilitates application control to all types of working areas.

## TECHNICAL SPECIFICATIONS

<b>MAX. WORKING PRESSURE:</b>	246 bar
<b>AIR PRESSURE REQUIRED:</b>	6-8 bar
<b>MAX. PRODUCTION RATIO 1:1:</b>	18 kg/min
<b>MIN. PRODUCTION RATIO 1:1:</b>	1,5 kg/min



## NOVAG M

### Mechanical Purge

The **NOVAG M** mechanical self-cleaning spray gun guarantees you the best mixing quality on the application of polyurethane foam, elastomeric coatings and polyurea. Easy maintenance is combined with lightness and balance, and a unique high-low output configuration that gives you the possibility to work with a wide range of flows with only one gun.

## TECHNICAL SPECIFICATIONS

<b>MAX. WORKING TEMPERATURE:</b>	90° C
<b>MAX. WORKING PRESSURE:</b>	265 bar
<b>AIR PRESSURE REQUIRED:</b>	7 bar
<b>MAX. PRODUCTION RATIO 1:1:</b>	18 kg/min
<b>MIN. PRODUCTION RATIO 1:1:</b>	1,5 kg/min

## Air Purge

## HT BLACK GUN

The **HT BLACK GUN** introduces a breakthrough in technology with the one push patent pending system that allows you to remove the mixing chamber independently - without the need to extract the gun block like in other traditionally designed guns. The HT BLACK GUN also offers the new twist & pull lock system to enable a fast and easy gun block disassembly.

Hi-Tech Spray Equipment Engineering Team has developed the HT BLACK GUN to be light, easy to handle, intuitive and with the fastest maintenance system on the market.



### ONE PUSH

Mixing chamber front extraction system.

Patent pending



### TWIST & PULL

Fast gun block removal

## TECHNICAL SPECIFICATIONS

<b>MAX. WORKING PRESSURE:</b>	240 bar
<b>AIR PRESSURE REQUIRED:</b>	6-8 bar
<b>MAX. PRODUCTION RATIO 1:1:</b>	18 kg/min
<b>MIN. PRODUCTION RATIO 1:1:</b>	1,5 kg/min

# SPRAY GUNS



## TECHNICAL SPECIFICATIONS SUMMARY

MAX. WORKING PRESSURE	AIR PRESSURE REQUIRED	MAX. PRODUCTION RATIO 1:1	MIN. PRODUCTION RATIO 1:1
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### NOVAG A



246 bar

6 - 8 bar

18 kg/min

1.5 kg/min

### NOVAG M



265 bar

7 bar

18 kg/min

1.5 kg/min

### HT BLACK GUN



240 bar

6 - 8 bar

18 kg/min

1.5 kg/min



## SPARE PARTS AND ACCESSORIES

NOVAG parts and accessories like Hoses and Transfer Pumps have been designed and manufactured with the same rigor, quality and attention to detail as the NOVAG units to ensure the best performance in the most demanding application conditions.

### NOVAG HEATED HOSE

NOVAG hoses, incorporate an innovative concept of heating in which the copper resistance element is homogenously spread around the hose. This allows accurate and uniform control of the application temperature of the products avoiding heat concentrations that are produced in traditionally manufactured hoses.



### NOVAG TRANSFER PUMP

The NOVAG 2:1 pump is a stainless steel air driven double effect piston pump used for moving the chemicals with a maximum viscosity of 2,000 mPas from the drums to the unit.



# novag<sup>®</sup>

SPRAY EQUIPMENT



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