

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it





Ritmo meets all your welding needs in your jobsite



The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice.

ADVANTAGE RITMO



RITMO WORLDWIDE

Ritmo has professional distributors and resellers all over the world. Our staff is ready to assist you in English, Spanish, French, German, Arab, Italian, Russian and Portuguese.

TRAINING

From many years now, we have decided that the best way to grant a client/distributor a perfect knowledge of our products is to invest in custom training, in our own premises. These courses are aimed to teach how to operate the products in the best way, and how to supply the "first aid" when necessary.

PRESALES TECHNICAL ASSISTANCE

When a client or a potential client wants to buy us a product, it is our standard procedure to help find the best solution to its needs.

GLOBAL ADVICE

In such a technical field as ours, the customer requires the best assistance. Thanks to the experience developed along the years, and to the co-operation with several manufacturers, institutions, schools and training institutes, RITMO is able to give the most comprehensive advice to no matter which related issue. Our company is a long-time member of a UNIPLAST's (UNI-Italian National Plastics Standards Body) working group dedicated to the study and draw up of new standards within our field. The importance of this group is linked to the fact that the expansion of the plastic welding field ought to be followed by a crescent sensitivity for safety issues, so to have a sustainable and continuous growth. The working group prepares draws, hence present them to the UNI to be discussed and eventually transformed into new standards.

AFTER SALES TECHNICAL ASSISTANCE

Ritmo's Service Centre can solve all kind of technical issues, as well as overhaul our machines. Ritmo has other Service Centres abroad, linked to its official distributors.

STARTING AND TESTING

RITMO' technicians are prepared to make the starting and testing of workshop machines at the client' own premises, so that the fittings production can start almost immediately.

PLASTIC FABRICATION



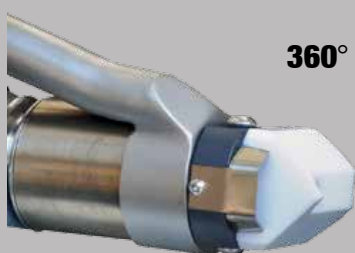
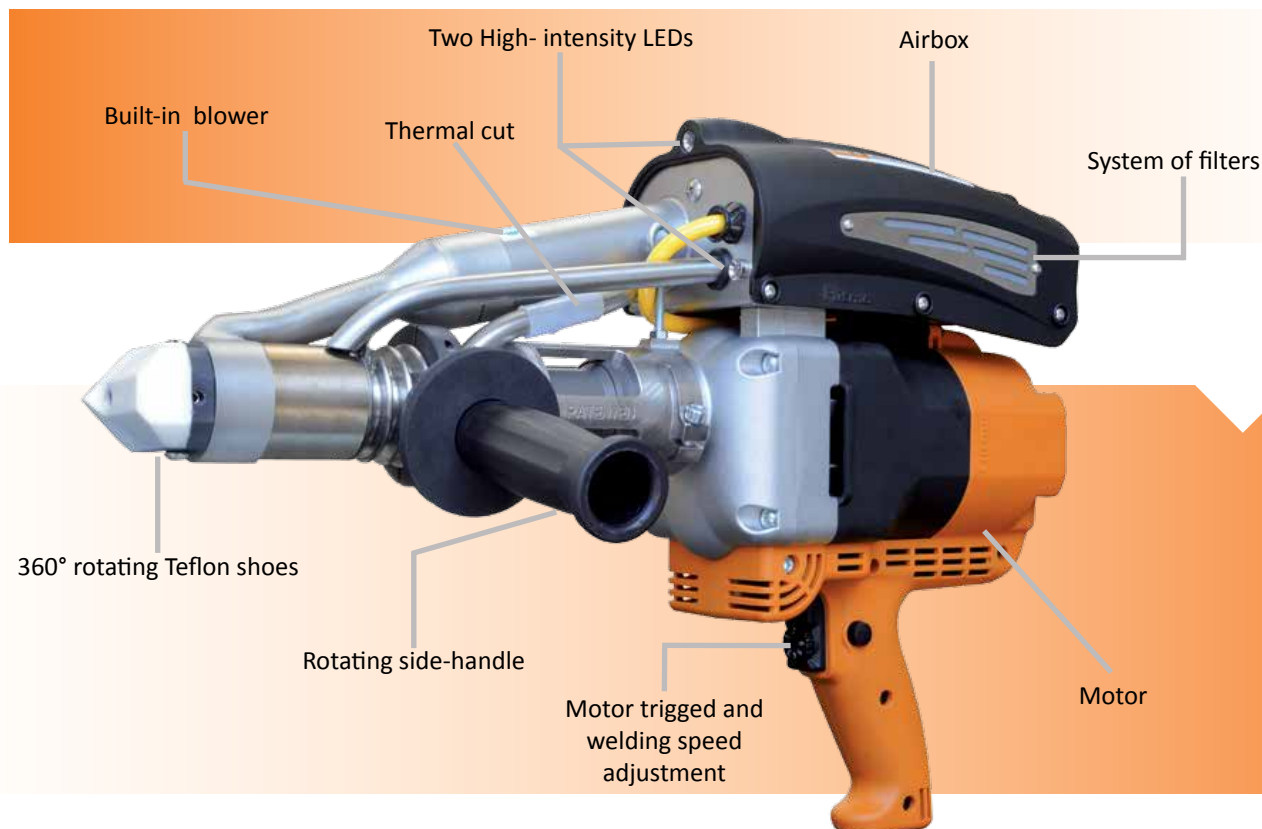
* OUTPUT: Kg / h - lb / h	2 Kg / h 4.4 lb / h	3 Kg / h 6.6 lb / h	4 Kg / h 8.8 lb / h	5 Kg / h 11.2 lb / h	> 6 Kg / h 13.6 lb / h
K-SB 20	•				
K-SB 30	•	•			
K-SB 40	•	•	•		
K-SB 50	•	•	•	•	
K-SB 60	•	•	•	•	•

* The maximum extruded capacity varies depending on the material

CUSTOMIZED PLASTIC FABRICATION USING THE STARGUN

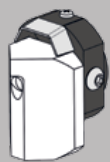
STARGUN is the line of handy and easy to use extruder welders. All models distinguish for being light, compact and very smooth during the welding phase. The entire line is supported by a series of interchangeable Teflon® shoes which allow the STARGUN to adapt to every kind of welding situation: from plane sheets to oblique angles. Thanks to their versatility they are able to weld different types of fabrications like: containing tanks, fume treatment towers, scrubbers, chemical hoods, aspiration systems, and for joining linings and geo-textiles.

In the chart below find the main characteristics that make of the STARGUN a unique instrument.



360° PRE-HEATING

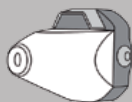
Standard with model:
K-SB 20
K-SB 30
K-SB 40



90°



V Flat



Conical



Geotextile

Optional for model:
K-SB 50
K-SB 60



360° Pre-Heating for rotating shoes

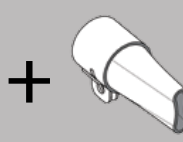


FIXED LATERAL PRE-HEATING

Standard with model:
K-SB 50
K-SB 60



Fixed Lateral Pre-Heating



Nozzle

Optional for model:
K-SB 30
K-SB 40



90°



V Flat

K-SB 20



K-SB 20 is a compact and ergonomic extruder equipped with a power control device and the safety system "motor block" that doesn't allow the machine to start before it reaches the right temperature. The extruder has an innovative universal feeding system that makes possible to use the machine with different diameters of wire.

- Backlight display
- Two high-brightness LEDs for welding area
- Power regulator - welding speed adjustment;
- Security system "motor block / cold start"
- Independent blower
- Thermoregulator double electronic T ° control: for blower and extrusion
- Orientable handle
- 360° orientable and replaceable welding shoes

Standard equipment:

K-SB 20 360° rotating teflon shoes, transport case and extruder support;

- Teflon shoe 86777821 90° - a 7 mm 360° rotating shoe
- Teflon shoe 86777830 V Flat - 10/12 mm 360° rotating shoe

ON REQUEST

Teflon shoes

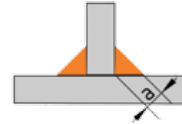
Materials	HDPE, PP, PVDF
Rod	Ø 3 - 4 mm; 1/8" - 5/32"
Sheets	1,5 ÷ 20 mm; 1/16" ÷ 0.8"
*Output up to	2 Kg/h HDPE rod Ø 4 mm; 5/32"
Dimension	450 x 310 x 100 mm; 17.7" x 12.2" x 3.9"
Power supply	230 Vac 50/60 Hz
Total absorbed power	3100 W
Weight	6.9 Kg (15.2 lb)

* The maximum extruded capacity varies depending on the material

WELDING SHOES K-SB 20



90° - WELD



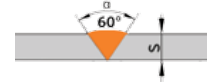
360° Rotating Shoes

ACCORDING TO DVS STANDARD

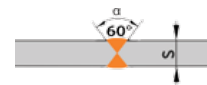
360° Rotating Shoes	sheet's thickness	Article
90° - a 4.2 mm	6 mm	86777819
90° - a 5.6 mm	8 mm	86777820
90° - a 7 mm	10 mm	86777821
90° - a 8,4 mm	12 mm	86777822
90° - a 10,5 mm	15 mm	86777823
90° - a 14 mm	20 mm	86777824



V - WELD



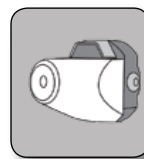
X - WELD



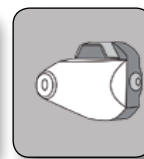
360° Rotating Shoes

ACCORDING TO DVS STANDARD

360° Rotating Shoes	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777829
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777830
V Flat - 15	15 mm	30 mm	86777831
V Flat - 20	20 mm	40 mm	86777832



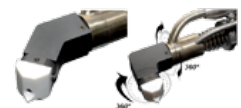
Conical 20
86777817



Conical 14
86777818



Special corrugate shoe
76777840



Special shoe support
45° - 80047830
90° - 80047820



Special corrugate shoe 180 mm
86777800

K-SB 30



K-SB 30 is a compact and ergonomic extruder equipped with a power control device and the safety system "motor block" that doesn't allow the machine to start before it reaches the right temperature. The extruder has an innovative universal feeding system that makes possible to use the machine with different diameters of wire.

- Backlight display
- Two high-brightness LEDs for welding area
- Power regulator - welding speed adjustment
- Security system "motor block / cold start"
- Independent blower
- Thermoregulator double electronic T° control: for blower and extrusion
- Orientable handle
- 360° orientable and replaceable welding shoes

Standard equipment:

K-SB 30 360° rotating teflon shoes, transport case and extruder support;

- Teflon shoe 86777823 90° - a 10,5 mm 360° rotating shoe
- Teflon shoe 86777831 V Flat - 15 mm 360° rotating shoe

ON REQUEST

Teflon shoes, Fixed Lateral Pre-Heating, KIT Geotextile handle

Materials	HDPE, PP, PVDF
Rod	Ø 3 - 4 - 5 mm; 1/8" - 5/32" - 3/16"
Sheets	1,5 ÷ 30 mm; 1/16" ÷ 1.1"
*Output up to	3 Kg/h HDPE rod Ø 5; 3/16"
Dimension	500 x 310 x 100 mm 19.6" x 12.2" x 3.9"
Power supply	230 Vac 50/60 Hz
Total absorbed power	3350 W
Weight	7,1 Kg (15.6 lb)

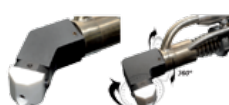
* The maximum extruded capacity varies depending on the material



Special corrugate shoe
76777840



Special corrugate shoe 180 mm
86777800

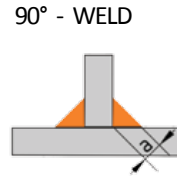


Special shoe support
45° - 80047830
90° - 80047820

WELDING SHOES K-SB 30



360° Rotating Shoes



90° - WELD

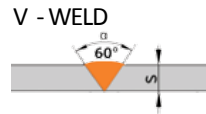


Shoes Fixed Lateral
Pre-Heating

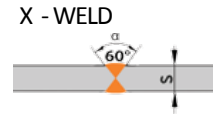
ACCORDING TO DVS STANDARD

360° Rotating Shoes to use with 81567801	sheets thickness	Article
90° - a 5.6 mm	8 mm	86777820
90° - a 7 mm	10 mm	86777821
90° - a 8,4 mm	12 mm	86777822
90° - a 10,5 mm	15 mm	86777823
90° - a 14 mm	20 mm	86777824
90° - a 17,5 mm	25 mm	86777825
90° - a 21 mm	30 mm	86777826

Shoes Fixed Lateral Pre-Heating to use with 81567800	sheets thickness	Article
90° - a 5.6 mm	8 mm	86777838
90° - a 7 mm	10 mm	86777839
90° - a 8,4 mm	12 mm	86777840
90° - a 10,5 mm	15 mm	86777841
90° - a 14 mm	20 mm	86777842
90° - a 17,5 mm	25 mm	86777843
90° - a 21 mm	30 mm	86777844



V - WELD



X - WELD

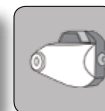
ACCORDING TO DVS STANDARD

360° Rotating Shoes to use with 81567801	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777829
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777830
V Flat - 15	15 mm	30 mm	86777831
V Flat - 20	20 mm	40 mm	86777832

Shoes Fixed Lateral Pre-Heating to use with 81567800	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777847
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777848
V Flat - 15	15 mm	30 mm	86777849
V Flat - 20	20 mm	35 - 40 mm	86777850
V Flat - 25	25 mm	-	86777851
V Flat - 30	30 mm	-	86777852



Conical 20
86777817



Conical 14
86777818



Geotextile
86777814

LATERAL PRE-HEATING NOZZLE



Lateral
Pre-Heating
adapter 81567800



Nozzle
18 mm
78947844C



Nozzle
25 mm
78947854C



Nozzle
32 mm
78947864C

K-SB 40



K-SB 40 is a compact and ergonomic extruder equipped with a power control device and the safety system "motor block" that doesn't allow the machine to start before it reaches the right temperature. The extruder has an innovative universal feeding system that makes possible to use the machine with different diameters of wire.

- Backlight display
- Two high-brightness LEDs for welding area
- Power regulator - welding speed adjustment
- Security system "motor block / cold start"
- Independent blower
- Thermoregulator double electronic T ° control: for blower and extrusion
- Orientable handle
- 360° orientable and replaceable welding shoes

Standard equipment:

K-SB 40 360° rotating teflon shoes, transport case and extruder support;

- Teflon shoe 86777823 90° - a 10,5 mm 360° rotating shoe
- Teflon shoe 86777831 V Flat - 15 mm 360° rotating shoe

ON REQUEST

Teflon shoes, Fixed Lateral Pre-Heating, KIT Geotextile handle

Materials	HDPE, PP
Rod	Ø 4 - 5 mm; 5/32" - 3/16"
Sheets	1,5 ÷ 30 mm; 1/16" ÷ 1.1"
*Output: up to	4 Kg/h HDPE rod Ø 5; 3/16"
Dimension	640 x 200 x 100 mm 25.2" x 7.9" x 3.9"
Power supply	230 Vac 50/60 Hz
Total absorbed power	3500 W
Weight	7,6 Kg (16.7 lb)

* The maximum extruded capacity varies depending on the material



Special corrugate shoe
76777840



Special shoe support
45° - 80047830
90° - 80047820



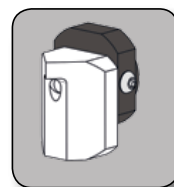
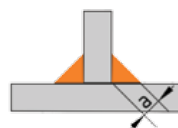
Special corrugate shoe 180 mm
86777800

WELDING SHOES K-SB 40



360° Rotating Shoes

90° - WELD



Shoes Fixed Lateral
Pre-Heating

ACCORDING TO DVS STANDARD

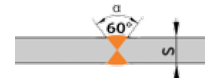
360° Rotating Shoes to use with 81567801	sheets thickness	Article
90° - a 5.6 mm	8 mm	86777820
90° - a 7 mm	10 mm	86777821
90° - a 8,4 mm	12 mm	86777822
90° - a 10,5 mm	15 mm	86777823
90° - a 14 mm	20 mm	86777824
90° - a 17,5 mm	25 mm	86777825
90° - a 21 mm	30 mm	86777826

Shoes Fixed Lateral Pre-Heating to use with 81567800	sheets thickness	Article
90° - a 5.6 mm	8 mm	86777838
90° - a 7 mm	10 mm	86777839
90° - a 8,4 mm	12 mm	86777840
90° - a 10,5 mm	15 mm	86777841
90° - a 14 mm	20 mm	86777842
90° - a 17,5 mm	25 mm	86777843
90° - a 21 mm	30 mm	86777844
90° - a 24,5 mm	35 mm	86777845

V - WELD



X - WELD



ACCORDING TO DVS STANDARD

360° Rotating Shoes to use with 81567801	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777829
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777830
V Flat - 15	15 mm	30 mm	86777831
V Flat - 20	20 mm	40 mm	86777832

Shoes Fixed Lateral Pre-Heating to use with 81567800	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777847
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777848
V Flat - 15	15 mm	30 mm	86777849
V Flat - 20	20 mm	35 - 40 mm	86777850
V Flat - 25	25 mm	-	86777851
V Flat - 30	30 mm	-	86777852
V Flat - 35	35 mm	-	86777853



Conical 20
86777817



Conical 14
86777818



Geotextile
86777814

LATERAL PRE-HEATING NOZZLE



Lateral
Pre-Heating
adapter 81567800

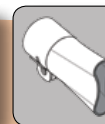
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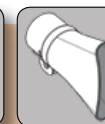
Nozzle
18 mm
78947844C



Nozzle
25 mm
78947854C



Nozzle
32 mm
78947864C



Nozzle
48 mm
78947874C



K-SB 50



K-SB 50 Back handle

K-SB 50 is a powerful extruder indispensable for jobs that require a high output of extruded material. K-SB 50 is suitable for joining linings and geo-textiles, sheets, thick pipes and for all those welds that are required to resist to continuous stress. It is capable of up to 5 Kg/h of extruded material.

- Backlight display
- Welding - area spot light LEDs
- Temperature control safety system cold start control
- Built - in blower
- Double T° controller for blower and extrusion chamber
- Rotating side - handle

Standard equipment:

- K-SB 50 Back Handle - Fixed Lateral Pre-Heating with nozzle 32 mm (78947864C)
- K-SB 50 Pistol Grip - Fixed Lateral Pre-Heating with nozzle 32 mm (78947864C)
- Transport case and extruder support
- Teflon shoe 86777843 90° - a 17,5 mm Fixed Lateral Pre-Heating
- Teflon shoe 86777851 V Flat - 25 mm Fixed Lateral Pre-Heating

ON REQUEST

Teflon shoes, Kit 360° rotating teflon shoes, KIT Geotextile handle

Materials	HDPE, PP
Rod	Ø 4 - 5 mm; 5/32" - 3/16"
Sheets	1,5 ÷ 40 mm; 1/16" ÷ 1.5"
*Output up to	5 Kg/h HDPE rod Ø 5; 3/16"
Dimension: (a) Back Handle (B) Pistol Grip	(a) 720 x 260 x 100 mm 28.3" x 10.2" x 3.9" (b) 600 x 330 x 100 mm 23.6" x 13" x 3.9"
Power supply	230 Vac 50/60 Hz
Total absorbed power	4000 W
Weight	9 Kg (19.8 lb)

* The maximum extruded capacity varies depending on the material



K-SB 50 Pistol Grip

K-SB 60



K-SB 60 is a powerful and light extruder indispensable for jobs that require a high output of extruded material. It is capable of up to 6.2 Kg/h of extruded material. K-SB 60 is suitable for joining linings and geo-textiles, sheets, thick pipes and for all those welds that are required to resist to continuous stress.

- Backlight display
- Welding - area spot light LEDs
- Temperature control safety system cold start control
- Built - in blower
- Double T° controller for blower and extrusion chamber
- Rotating side - handle

Standard equipment:

K-SB 60 Fixed Lateral Pre-Heating with nozzle 32 mm (78947864C)

- Transport case and extruder support
- Teflon shoe 86777844 90° - a 21 mm Fixed Lateral Pre-Heating
- Teflon shoe 86777852 V Flat - 30 mm Fixed Lateral Pre-Heating

ON REQUEST

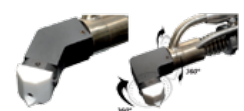
Teflon shoes, Kit 360° rotating teflon shoes, KIT Geotextile handle

Materials	HDPE, PP
Rod	Ø 4 - 5 mm; 5/32" - 3/16"
Sheets	1,5 ÷ 40 mm; 1/16" ÷ 1.5"
*Output up to	6.2 Kg/h HDPE rod Ø 5; 3/16"
Dimension	730 x 260 x 100 mm 28.7" x 10.2" x 3.9"
Power supply	230 Vac 50/60 Hz
Total absorbed power	4200 W
Weight	9,3 Kg (20.5 lb)

* The maximum extruded capacity varies depending on the material



Special corrugate shoe
76777840



Special shoe support
45° - 80047830
90° - 80047820



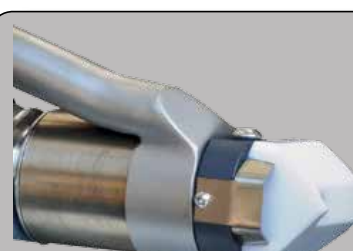
Special corrugate shoe 180 mm
86777800



K-SB 50 / K-SB 60
Geo-textiles configuration



Fixed Lateral
Pre-Heating
Standard composition
K-SB 50 / K-SB 60



360° Pre-Heating
On request
K-SB 50 / K-SB 60

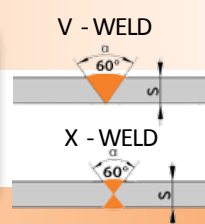
WELDING SHOES K-SB 50 / K-SB 60



Kit 360° Pre-Heating
adapter 81567801
to use with
360° Rotating Shoes



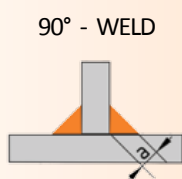
360° Rotating Shoes



Shoes Fixed Lateral
Pre-Heating



Shoes Fixed Lateral
Pre-Heating



90° - WELD



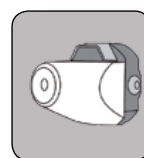
360° Rotating Shoes

ACCORDING TO DVS STANDARD

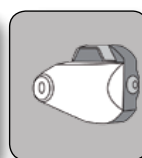
Shoes Fixed Lateral Pre-Heating to use with 81567800	sheets thickness	Article
90° - a 7 mm	10 mm	86777839
90° - a 8,4 mm	12 mm	86777840
90° - a 10,5 mm	15 mm	86777841
90° - a 14 mm	20 mm	86777842
90° - a 17,5 mm	25 mm	86777843
90° - a 21 mm	30 mm	86777844
90° - a 24,5 mm	35 mm	86777845
90° - a 28 mm	40 mm	86777846
360° Rotating Shoes to use with 81567801	sheets thickness	Article
90° - a 7 mm	10 mm	86777821
90° - a 8,4 mm	12 mm	86777822
90° - a 10,5 mm	15 mm	86777823
90° - a 14 mm	20 mm	86777824
90° - a 17,5 mm	25 mm	86777825
90° - a 21 mm	30 mm	86777826
90° - a 24,5 mm	35 mm	86777827
90° - a 28 mm	40 mm	86777828

ACCORDING TO DVS STANDARD

360° Rotating Shoes to use with 81567801	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777829
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777830
V Flat - 15	15 mm	30 mm	86777831
V Flat - 20	20 mm	40 mm	86777832
Shoes Fixed Lateral Pre-Heating to use with 81567800	V weld "S"	X weld "S"	Article
V Flat - 8	8 mm	16 mm	86777847
V Flat - 10/12	10 - 12 mm	20 - 25 mm	86777848
V Flat - 15	15 mm	30 mm	86777849
V Flat - 20	20 mm	35 - 40 mm	86777850
V Flat - 25	25 mm	-	86777851
V Flat - 30	30 mm	-	86777852
V Flat - 35	35 mm	-	86777853
V Flat - 40	40 mm	-	86777854



Conical 20
86777817

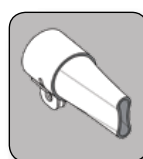


Conical 14
86777818

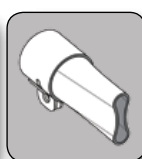


Geotextile
86777814

LATERAL PRE-HEATING NOZZLE



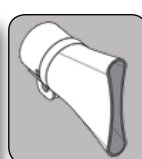
Nozzle 18 mm
78947844C



Nozzle 25 mm
78947854C



Nozzle 32 mm
78947864C



Nozzle 48 mm
78947874C



PRODUCTS OVERVIEW

	K - SB 20	K - SB 30	K - SB 40	K - SB 50	K - SB 60
MATERIALS	HDPE, PP, PVDF	HDPE, PP, PVDF	HDPE, PP	HDPE, PP	HDPE, PP
* OUTPUT	2 Kg/h HDPE rod Ø 4 mm; 5/32"	3 Kg/h HDPE rod Ø 5; 3/16"	4 Kg/h HDPE rod Ø 5; 3/16"	5 Kg/h HDPE rod Ø 5; 3/16"	6,2 Kg/h HDPE rod Ø 5; 3/16"
ROD	3 - 4 mm 1/8" - 5/32"	3 - 4 - 5 mm; 1/8" - 5/32" - 3/16"	4 - 5 mm; 5/32" - 3/16"	4 - 5 mm; 5/32" - 3/16"	4 - 5 mm; 5/32" - 3/16"
WEIGHT	6.9 Kg (15.2 lb)	7,1 Kg (15.6 lb)	7,6 Kg (16.7 lb)	9 Kg (19.8 lb)	9,3 Kg (20.5 lb)
DIMENSIONS	450 x 310 x 100 mm; 17.7" x 12.2" x 3.9"	500 x 310 x 100 mm 19.6" x 12.2" x 3.9"	640 x 200 x 100 mm 25.2" x 7.9" x 3.9"	Back handle 720 x 260 x 100 mm 28.3" x 10.2" x 3.9" Pistol grip 600 x 330 x 100 mm 23.6" x 13" x 3.9"	730 x 260 x 100 mm 28.7" x 10.2" x 3.9"
MAX ABSORBED POWER	3100 W 230 V 50/60 Hz	3350 W 230 V 50/60 Hz	3500 W 230 V 50/60 Hz	4000 W 230 V 50/60 Hz	4200 W 230 V 50/60 Hz
GEO-TEXTILE			•	•	•
CONTAINER CONSTRUCTION	•	•	•	•	•
BUILDING OF TANKS AND FILTERS	•	•	•	•	•
BUILDING OF FUMES TREATMENT TOWERS	•	•	•	•	•

* The maximum extruded capacity varies depending on the material



RELATED SERVICES

RITMO offers turnkey solutions to its customers: welding rods and rod dispensers are available

Welding rods:

HDPE Ø 4 - 5 mm; 5/32" - 3/16"
PP Ø 3 - 4 mm; 1/8" - 5/32"







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