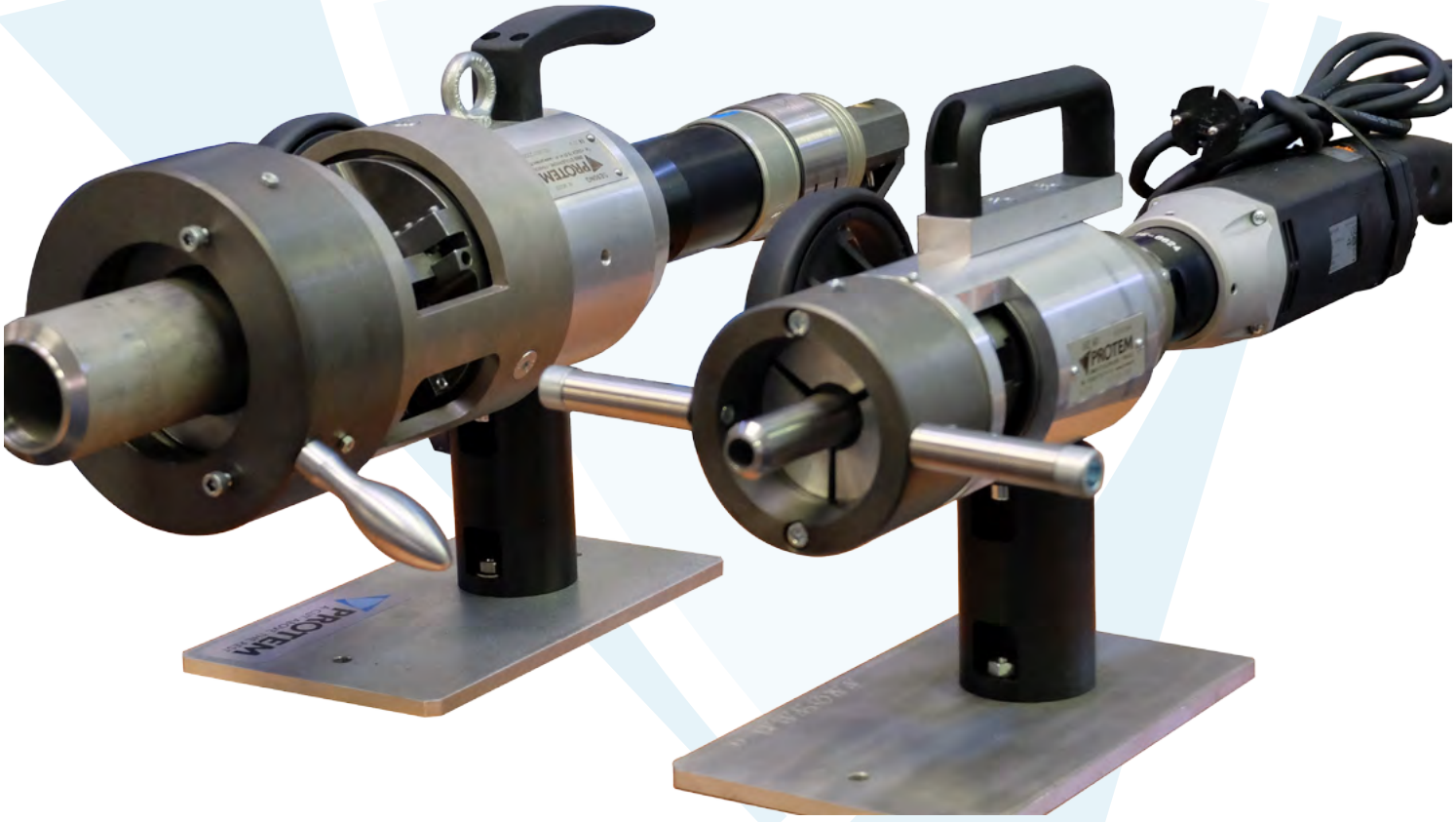
OD CLAMPING TUBE SQUARING & BEVELING MACHINES

Ø 10 mm - 120 mm
Ø 0.394” – 4.724”



SE-NG Series	Machining Capacity	
SE60	10 - 160 mm	0.394” – 2.362”
SE90 NG	10 - 90 mm	0.394” – 3.5”
SE120	50 - 120 mm	1.969” – 4.724”
SE219	60.3 - 219 mm	2.374” - 8.622”

INDUSTRIES :

Chemica	Shipbuilding	High Purity
Nuclear	Renewable Energies	Aérospatiale

PROTEM A CUT ABOVE THE REST

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Pictures are not contractual

The machines are fixed on the tube by a reinforced collet that enables a very precise and burr free machining surface to be achieved.

The tool holder plate can perform facing and beveling operations individually or simultaneously. It can integrate up to four tool bit inserts

Powerful and reliable electric drives ensure constant cutting for a perfect machining result and an optimal lifetime for the tool bit inserts.

The tool holder can be removed very easily so that the operator is able to save time when changing tools. They can just change the complete tool holder plate.

The machines entering the SE-NG range cover diameters, according to the model, ranging from 100 mm (3.937") to 120 mm (4.724")

Machine bench

These machines obtain repeatable high quality weld preparations on pipes of all materials, including stainless steel pipes or various alloys.

SE-NG SERIES

SE60

Ø 10 - 60 mm (0.394” - 2.362”)

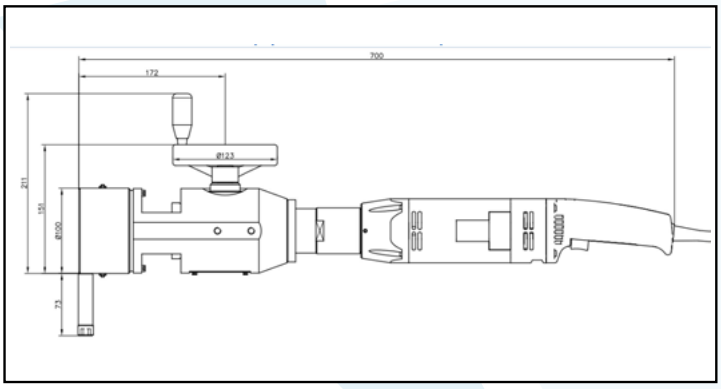
≈ 9 kg
≈ 17.6 lbs

DESCRIPTION :

ORDER NO.	DESCRIPTION
SE60E	SE60 with electric drive 1050 W, weight ~ 10 kg/ 22 lbs
SE60	SE60 with pneumatic drive 730 W, weight ~ 9 kg/ 19,8 lbs

Beveling	Cutting	Facing	Counterboring	Surfacing
✓	✗	✓	✓	✗

DIMENSIONS :



TECHNICAL FEATURES

Machine	SE60
Machining Capacity	10 mm - 60 mm OD
	0.394“ - 2.362“ OD
Clamping capacity	10 mm - 60 mm OD
	0.394“ - 2.362“ OD
Clamping	Manual
Feed stroke	10 mm
Drive Power	Electric, Pneumatic

SE60 ON-SITE

OPTIONS :

ORDER NO.	DESCRIPTION
SE60-40	Tool holder plate for SE60
SE60-PP90-09	Tool insert holder 90° for SE60
SE60-06B-(specify Ø)	Collet for SE60, 1 OD collet for each tube diameter, please specify on order
SE60-PP30	Tool insert holder 30° for SE60
SE60-PP37	Tool insert holder 37°30 for SE60
SE60-PP45	Tool insert holder 45° for SE60
SE60-PPD	Tool insert holder for SE60 for counterboring for SE60
SE60-PPT	Tool insert holder for SE60 for J-bevels; This tool holder must be ordered to-gether with tool inserts with radius
SE60-SAC	Automatic clamping device for SE60
SE60-SAA	Automatic feed device for SE60; Including pneumatic motor and distributor, 3 positions: feed – stop – feed back
SE60-SU	Bench support for SE60
SE60-K01	Crate for SE60
SE60-K02	Crate for SE60 with electric drive

PROTEM
A CUT ABOVE THE REST
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SE90NG

Ø 10 - 90 mm (0.394” - 2.362”)

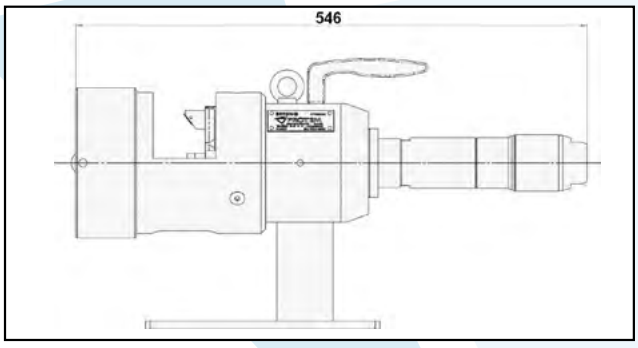
≈ 9 kg
≈ 17.6 lbs

DESCRIPTION :

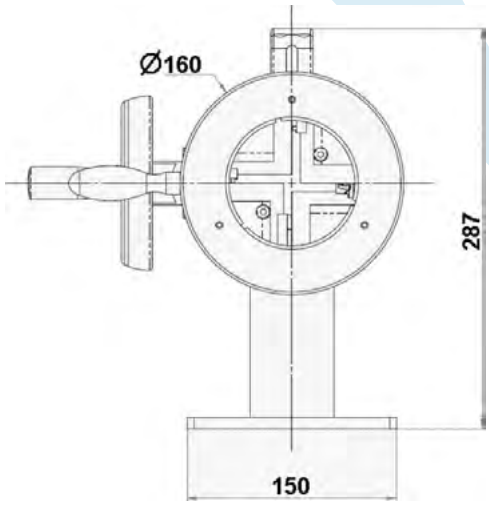
ORDER NO.	DESCRIPTION
SE90NG-E	SE90NG-E with electric drive 2800W, weight ~ 21 kg/46,3 lbs
SE90NG	SE90NG with pneumatic drive, weight ~ 22 kg/ 48,5 lbs

Beveling	Cutting	Facing	Counterboring	Surfacing
✓	✗	✓	✓	✗

DIMENSIONS VIEW 1 :



DIMENSIONS VIEW 2 :



TECHNICAL FEATURES

Machine	SE90NG
Machining Capacity	10 mm - 90 mm OD
	0.394“ - 2.362“ OD
Clamping capacity	10 mm - 90 mm OD
	0.394“ - 2.362“ OD
Clamping	Manual
Feed stroke	30 mm
Drive Power	Electric, Pneumatic

OPTIONS :

ORDER NO.	DESCRIPTION
SE90-15	Tool holder plate for SE90
SE90NG-1210 (specify Ø)	1 OD collet for each tube diameter, please specify on order
SE90NG-1313	Tool insert holder 90° for SE90
SE90NG-1311	Tool insert holder 30° for SE90
SE90NG-1314	Tool insert holder 37°30 for SE90
SE90NG-PP45	Tool insert holder 45° for SE90
SE90-PPD	Tool bit holder for SE90 for counterboring
SE90-PPT	Tool bit holder for SE90 for J-bevels; This tool holder must be ordered to-gether with tool inserts with radius
SE90NG-1600	Automatic clamping device for SE90
SE90-SAA	Automatic feed device for SE90; Including pneumatic motor and distributor 3 positions: feed – stop – feed back
SE90-SU	Bench support for SE90
SE90NG-1500	Support for SE90NG
SE90-K01	Crate for SE90 with pneumatic drive
SE90-K02	Crate for SE90 with electric drive

SE-NG SERIES

SE120

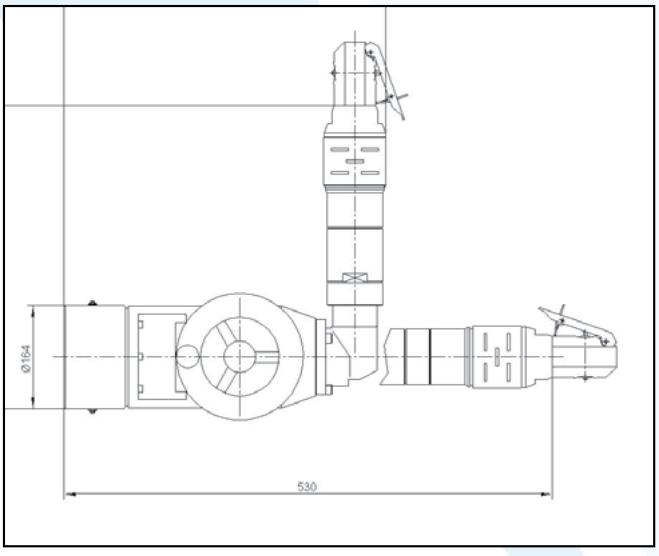
Ø 50 - 120 mm (1.969” - 4.724”)

DESCRIPTION :

ORDER NO.	DESCRIPTION
SE120E	SL120 with standard clamping head, weight ~ 15 kg/ 33,1 lbs
SE120	SL120 with short clamping head, weight ~ 15 kg/ 33,1 lbs

Beveling	Cutting	Facing	Counterboring	Surfacing
✓	✗	✓	✓	✗

DIMENSIONS :



TECHNICAL FEATURES

Machine	SE120
Machining Capacity	50 mm - 120 mm OD
	1.969“ - 4.724“ OD
Clamping capacity	50 mm - 120 mm OD
	1.969“ - 4.724“ OD
Clamping	Manual
Feed stroke	10 mm
Drive Power	Electric, Pneumatic

SE120 ON-SITE :

OPTIONS :

ORDER NO.	DESCRIPTION
SE120-68	Tool holder plate for SE120
SE120-SE60-07	Tool bit holder 90° for SE120
SE120-69-(préci-ser le Ø)	Clamping collet for SE120 : 1 OD collet for each tube diameter, please specify on order
SE120-PP30	Tool bit holder 30° for SE120
SE120-PP37	Tool bit holder 37°30 for SE120
SE120-PP45	Tool bit holder 45° for SE120
SE120-PPD	Tool bit holder for SE120 for counterboring
SE120-PPT	Tool bit holder for SE120 for J-bevels; This tool holder must be ordered to-gether with tool inserts with radius
SE120-SAC	Automatic clamping device for SE120
SE120-SAA	Automatic feed device for SE120; Including pneu-matic motor and distributor 3 positions: feed – stop – feed back
SE120-SU	Bench support for SE120
SE120-K01	Crate for SE120
SE120-K02	Crate for SE120 with electric drive

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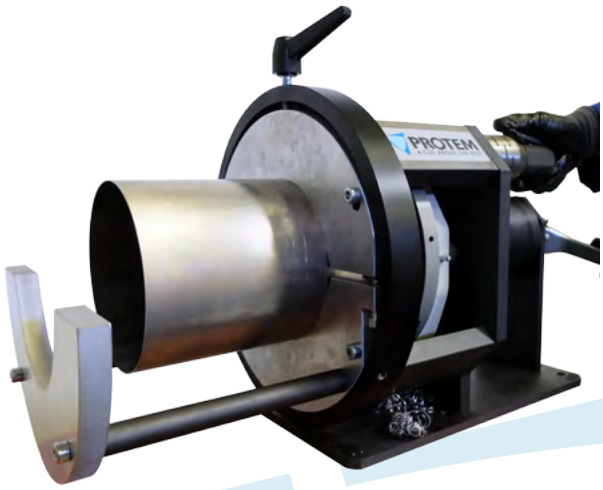
SE219

SE219

Ø 60.3 - 219 mm (2.374” - 8.622”)



DESCRIPTION :

The PROTEM SE219 has been especially designed and engineered to face and bevel tubes from 60.3 mm up to 219 mm OD.

Its design and unique working range makes it the best tool in its class. The stainless steel or aluminium collet and its front support allow a perfect clamping and squareness without deformation for orbital welding.

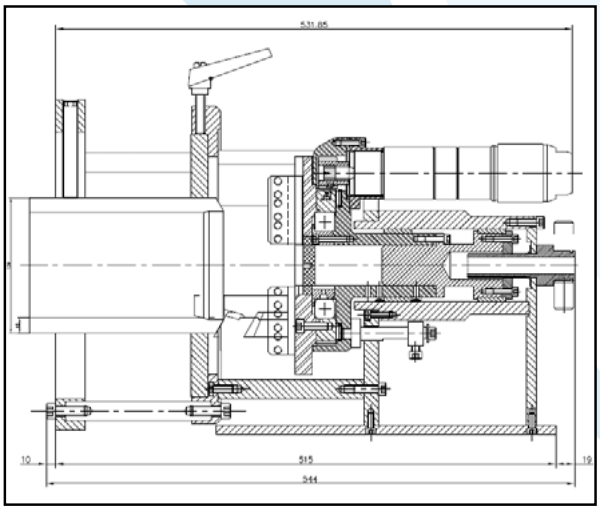
4 standard HSS tool bits can be mounted on the tool holder plate to work simultaneously.

This tool is ideal for sanitary tubing, food processing and chemical and pharmaceutical applications. The SE219 can be mounted either with an electric or a pneumatic drive.

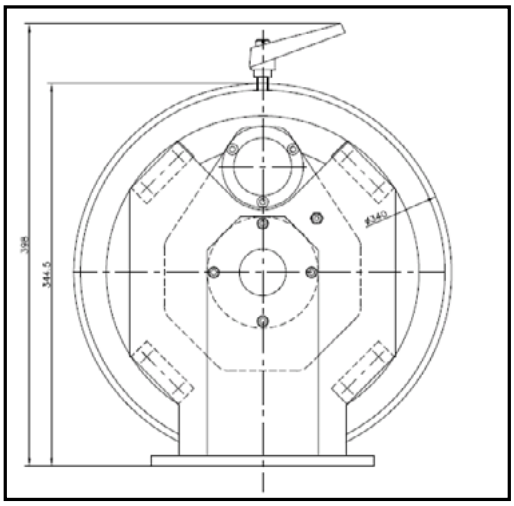
ORDER NO.	DESCRIPTION
SE219	SE219 Outside clamping tube squaring and beveling machine
SE219E	SE219E machine SE219 with electric drive 220 V

Beveling	Cutting	Facing	Counterboring	Surfacing
✓	✗	✓	✓	✗

DIMENSIONS VIEW 1 :



DIMENSIONS VIEW 2 :



TECHNICAL FEATURES

Machine	SE219
Machining Capacity	60.3 mm - 219 mm OD
	2.374“ - 8.622“ OD
Clamping	Manual with clamping lever
Feed stroke	23 mm
Gear drive	0-30 rpm
Drive Power	Electric, Pneumatic
Power	730 Watt
Working pressure	6 bars (87 psi)
Air consumption	1400 l/mn (49 cfm)

OPTIONS :

ORDER NO.	DESCRIPTION
SE219-DMS-AL...	SE219-DMS-AL... Collet from aluminium Please indicate the needed diameter on order.
SE219-DMS...	SE219-DMS-AL... Collet from aluminium Please indicate the needed diameter on order.
SE219-K01	SE219-K01 transport crate for SE120
SE219-K02	SE219-K02 transport crate for SE219E