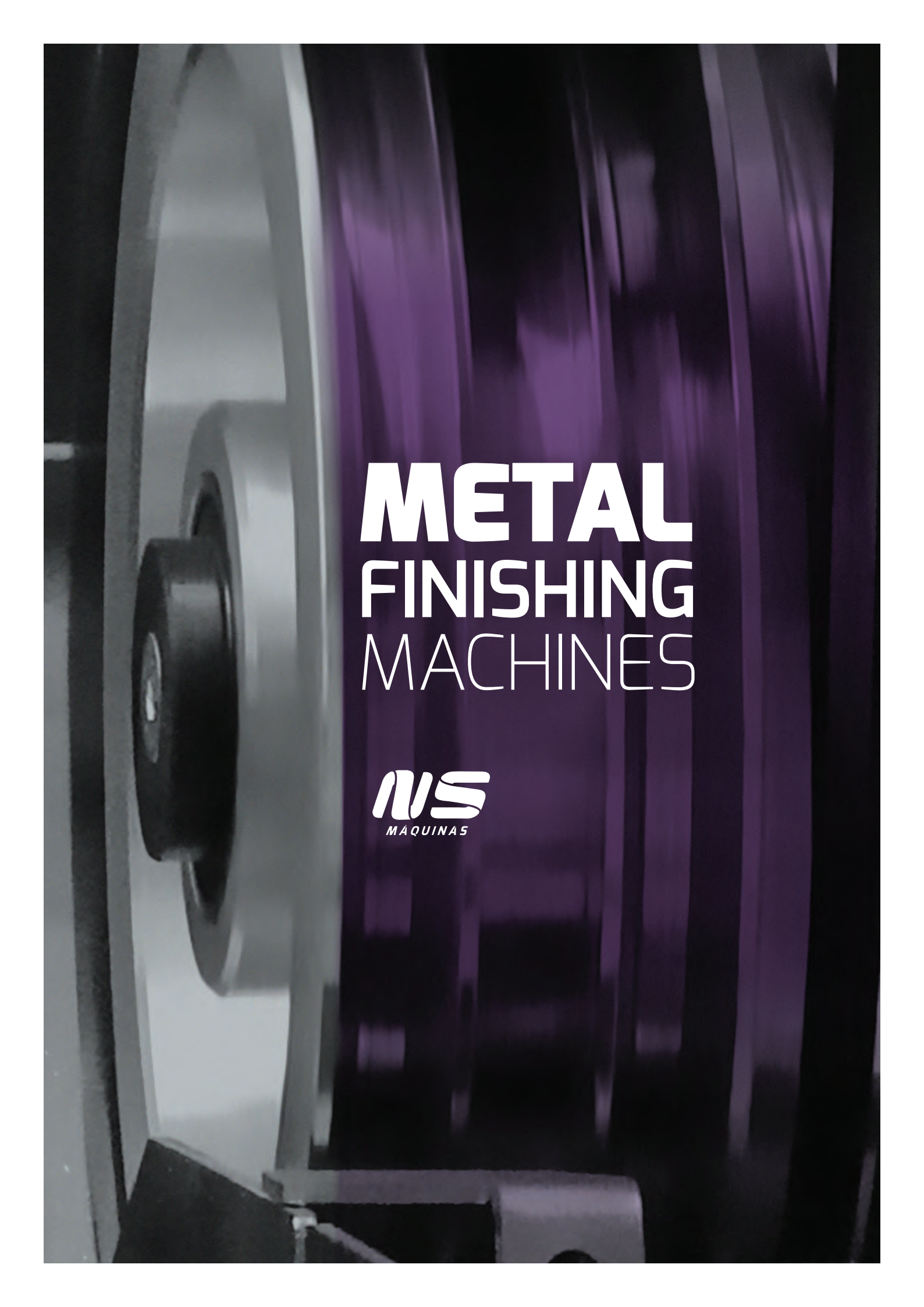
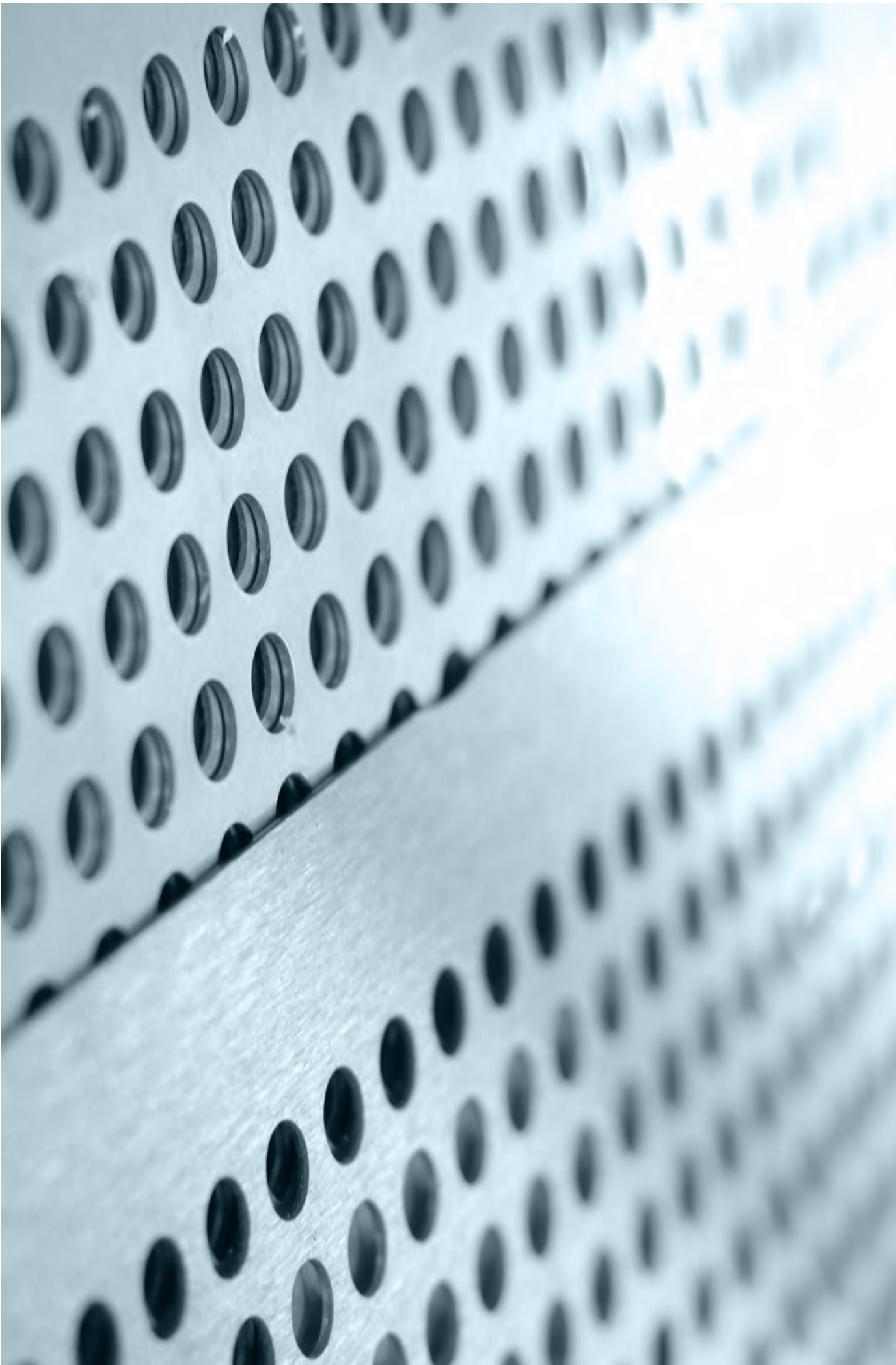




METAL FINISHING MACHINES

MS
MAQUINAS



NS Máquinas is a specialized manufacturer of machines for the metal finishing and polishing industry located in Portugal.

Through the years NS Máquinas has been bringing unique features and designs both to tube and sheet metal fabricators.

This has been made possible by continual investment in research and development and to a constant pursuit of optimal and flexible solutions.

Today NS is capable of creating and offering machines which combine quality and adequacy for diverse production requirements.

Enjoying Surface Finishing

CONTENTS

1 ROUND TUBE FINISHING MACHINES	05
2 RECTANGULAR TUBE AND BAR FINISHING MACHINES	13
3 DEBURRING MACHINES	23
4 MIRROR POLISHING MACHINES	33
5 OTHER BELT FINISHING MACHINES AND EQUIPMENT	39

Quality you can trust

COUNTING WITH VAST EXPERIENCE



3000

machines produced



Since 2003

Strong metal finishing know-how



Solid

Quality you can trust

Producing machines for the most demanding markets.

"We put all of our machines through a grueling pace throughout a day" [...] A lot of them are running 24/7 and we haven't had any problem with them at all."

Kevin Harding, CamdeJ Metals Corporation, USA, about ML100 3Z



Products

More than 100 products

Adequate machines for each application from the small workshop to the continuous production lines.

"This flat grinder is a fantastic machine. We are all so impressed by the speed and also with the high quality of finish. We have a number of clients who are using us for the polishing service, so I hope the machine will pay for itself very soon."

Jimmy Mills, Sparcraft, South Africa, about FG170 ZK

INVESTING IN THE FUTURE



Automation

Development of automatic tube and metal sheet loading, unloading and return systems



Innovation

Constant innovation: 5 new machines launched in the last 2 years



Growth

Sustainable sales growth



High Skilled

25% of workforce with university degree

SUPPLYING A COMPLETE OFFER



60 Countries

global presence in more than 60 countries



Technical Service

Quick field and online technical service



Customized

Customized solutions



Testing

Test center

"Thanks to the team from NS. You've done a job that you should be very proud of and sets a new standard in bar grinding quality...I'm very honored to be part of the project..."

Corey Munn, AusTech Supplies, Australia,
about FGW150 2Z HD

Achieving the requested deburring or finishing quality is a process NS Máquinas is experienced in. Counting with a vast range of machines and abrasive options, our team is committed to join and provide you the optimum solution for your surface finishing problem.



MAX.
DIAMETER



No.
OF STATIONS



STRAIGHT
TUBE



WET
COOLING



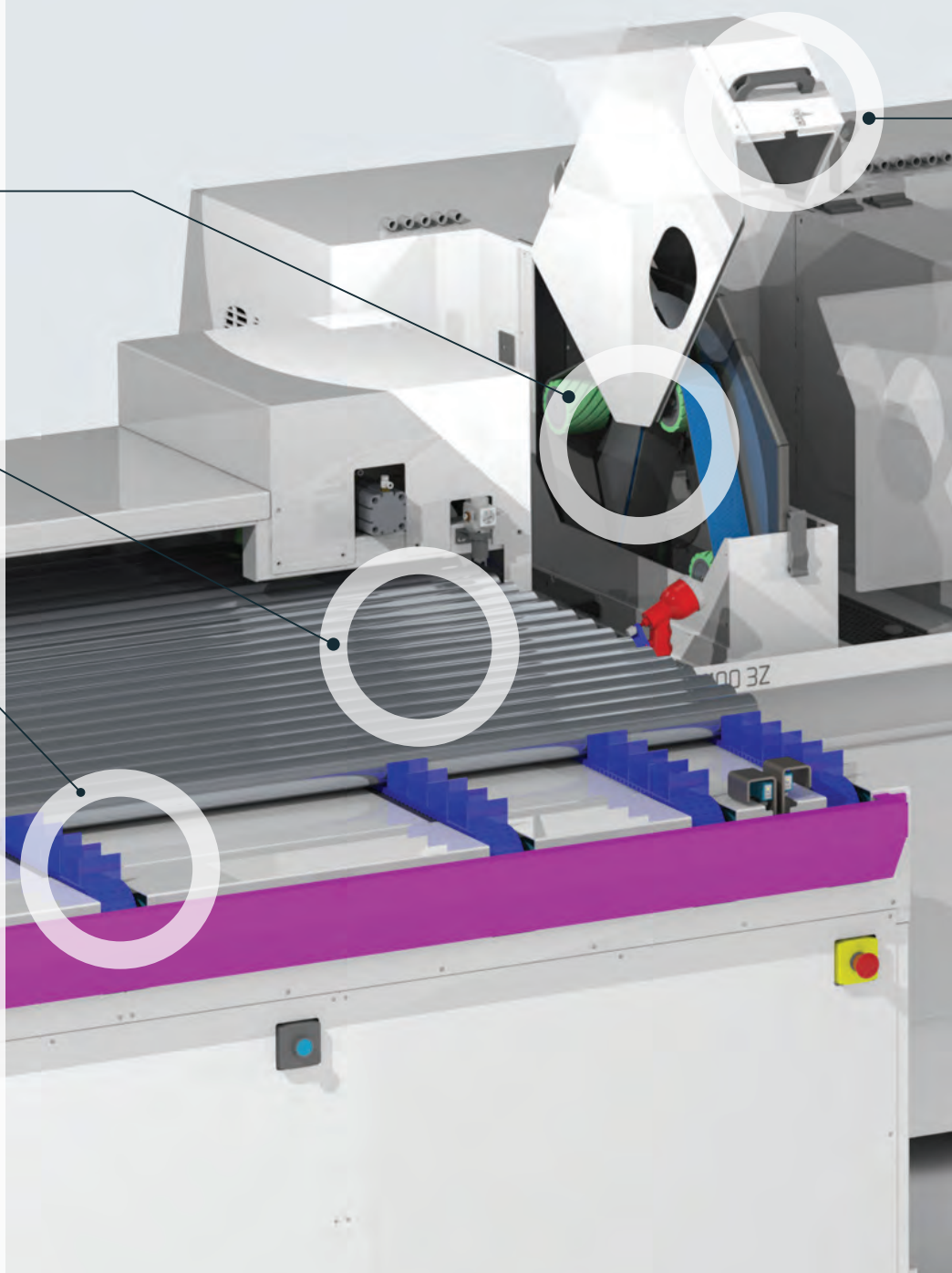
BENT
TUBE



**ML PLANETARY SYSTEM:
ABRASIVE BELT
FINISHING WITHOUT
ROTATING THE TUBE. LOW
HEAT AND NO VIBRATION
ON THE TUBE**

**SUPERIOR QUALITY IN
SATINISING AND FINISHING
OF ROUND TUBES AND
PIPES. ULTIMATE
VERSATILITY FOR OVAL,
DRILLED, TAPERED AND
BENT TUBES**

**AUTOMATIC LOADING
AND UNLOADING SYSTEMS
FOR AUTONOMOUS
OPERATION**



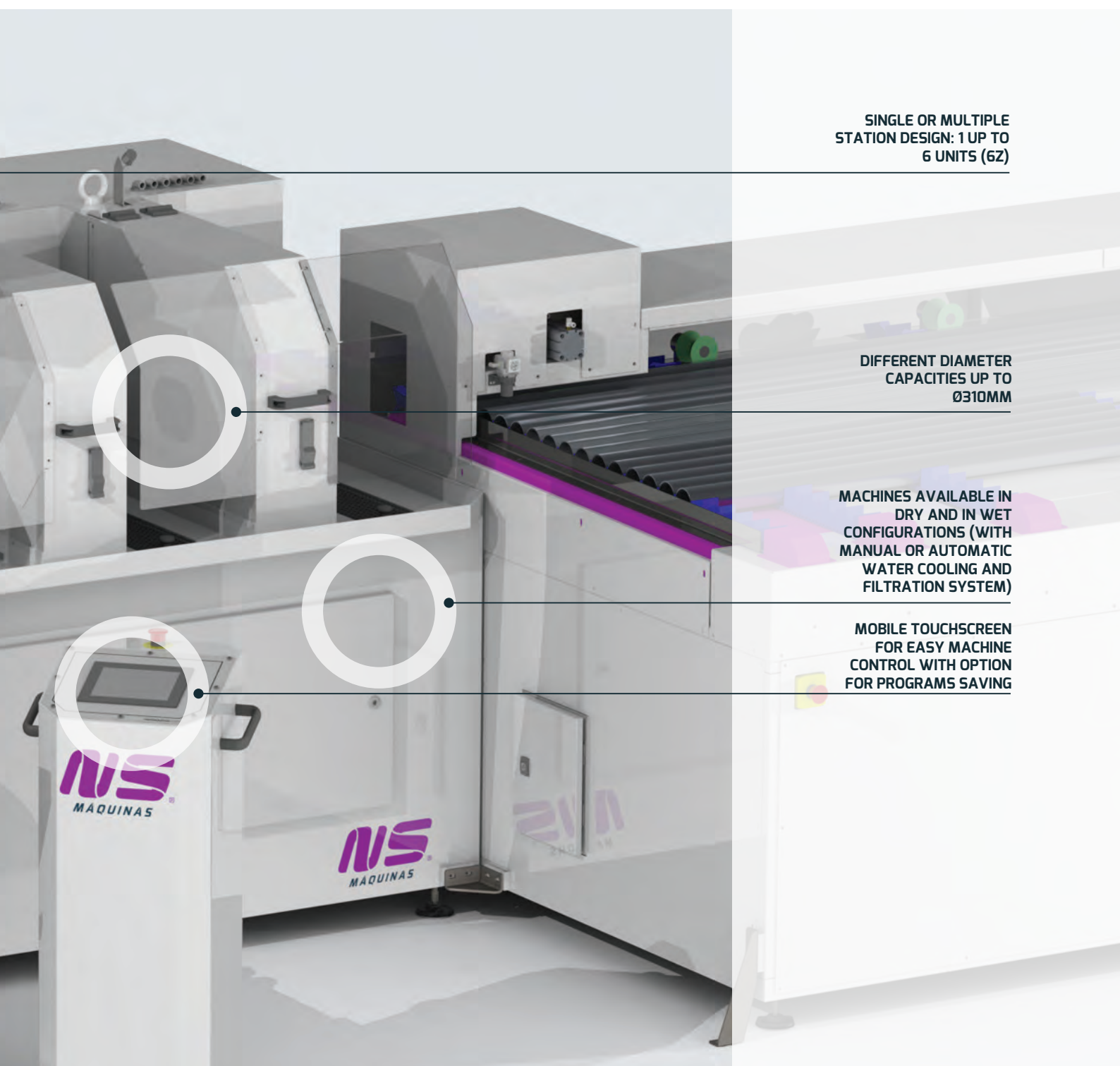
1 ROUND TUBE FINISHING MACHINES

SINGLE OR MULTIPLE
STATION DESIGN: 1 UP TO
6 UNITS (6Z)

DIFFERENT DIAMETER
CAPACITIES UP TO
Ø310MM

MACHINES AVAILABLE IN
DRY AND IN WET
CONFIGURATIONS (WITH
MANUAL OR AUTOMATIC
WATER COOLING AND
FILTRATION SYSTEM)

MOBILE TOUCHSCREEN
FOR EASY MACHINE
CONTROL WITH OPTION
FOR PROGRAMS SAVING



1 ROUND TUBE **MS**
MAQUINAS

ML100



114



1



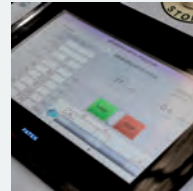
Minimum tube vibration
even on the longest
lengths



Straight or curved tubes
polishing



Available with
touchscreen for
programs saving



ML50



50



1



Finishing of tubes with
very tight bends such
as taps



Compact design for the
highest flexibility
in curved shapes



Finishing steel tubular
furniture products after
bending process



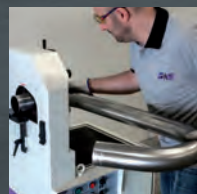
ML75



Finishing tight curved tubes with diameters up to Ø76mm



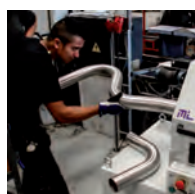
Designed for curved tubes finishing, it can be also fitted with automatic feeding systems for straight tubes finishing



ML200



Large diameter tube finishing (up to Ø150mm: ML150 or Ø205mm: ML200)



Finishing of large diameter curved tubes with maximum consistency



ML100 3Z



Multiple stations machines: final finishing in one single pass

Abrasive belts open and close automatically with photocells

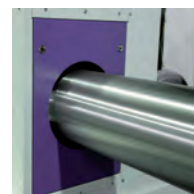
Double station machine available (ML100 2Z)



ML300



Finishing with maximum quality and safety on high diameters up to Ø310mm

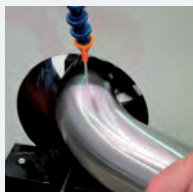


Pressure roller system for higher belt grinding capacity. Possible to finish tube surface but also to remove imperfections by using contact pressure on the abrasive belt

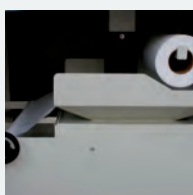




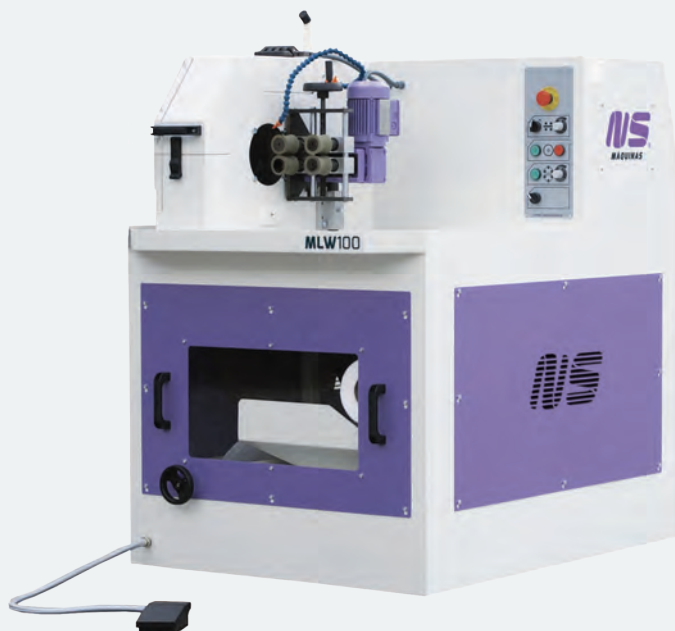
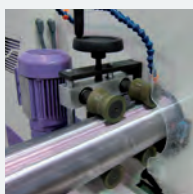
MLW100



Wet cooling system reduces temperature of the tubes during finishing operation and keeps potentially explosive dusts wet, avoiding related risks



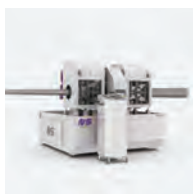
Manual or automatic filtration systems available



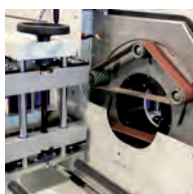
MLW200



Large diameter tube wet finishing (up to Ø205mm) with no vibration even on the longest lengths



MLW200 TC – Model dedicated to conic tubes finishing



Feeding system easily slides out for curved tubes operation



MLW100 6Z AT



AUTOMATIC LOADING AND UNLOADING SYSTEM



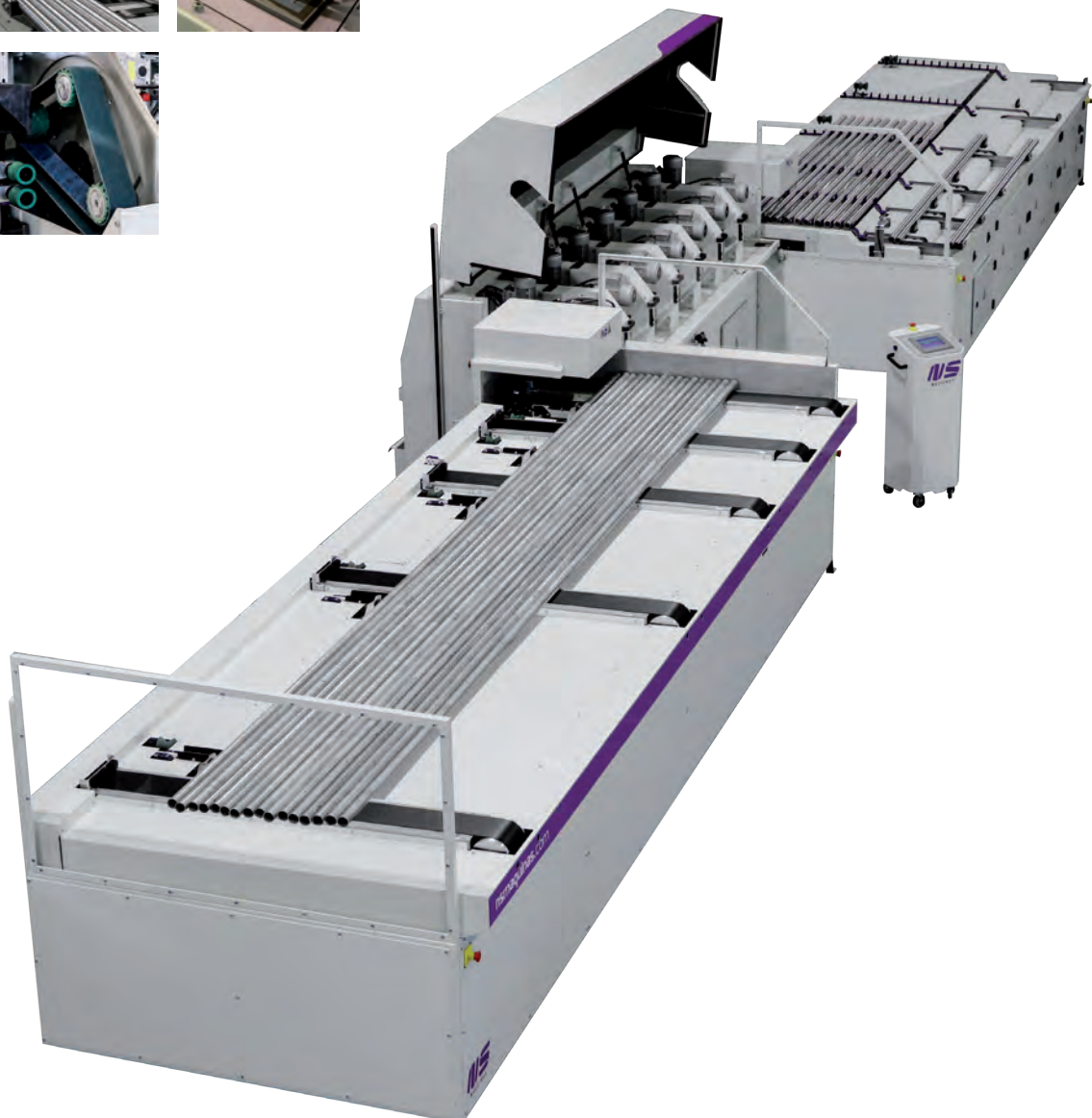
Final finishing
in one single pass.
Different designs
up to 6 stations



MLW100 3Z:
Standard 3 stations
round tube wet finishing
machine



Automatic loading
and unloading systems
with option for
programs saving



Technical Details

	ML100	ML50	ML75	ML150	ML200
Working capacity (Ømm)	10-114	5-51	10-76	20-150	20-205
No. Stations	1	1	1	1	1
Abrasive belts dimensions (mm)	(2x) 940x50	(2x) 500x25	(2x) 860x25	(2x) 1100x50	(2x) 1240x70
Abrasive belts speed (m/s) *	10-25	10-25	10-25	10-25	10-25
Feeding speed (m/min)	1-5	Manual	1-5	1-4	1-4
Abrasive belts motor (kW)	3	2.2	2.2	5.5	7.5
Wheel motor (kW)	1.5	1,5	1.5	2.2	3
Feeding motor (kW)	(2x) 0.12	-	(2x) 0.12	(2x) 0.18	(2x) 0.18
Total Power (kW)	5	4	4	8	11
Consumption (A)	14	12	13	18	24
Dust extractor conection (Ømm)	80	60	80	100	100
Dimensions (mm)	750x1000x1300	650x740x1220	750x1000x1300	1100x950x1350	1150x950x1350
Weight (kg)	250	170	230	480	680

	ML300	ML100 3Z	MLW100	MLW200	MLW100 6Z
Working capacity (Ømm)	40-310	10-114	10-114	20-205	10-110
No. Stations	1	3	1	1	6
Abrasive belts dimensions (mm)	(2X) 2150X120	(3x) (2x) 940X50	(2x) 940X50	(2x) 1240x70	(6x) (2x) 940x50
Abrasive belts speed (m/s)*	10-25	10-25	10-25	10-25	10-25
Feeding speed (m/min)	0.6-3	1-5	1-5	1-4	1-5
Abrasive belts motor (kW)	11	(3x) 3	3	7.5	(6x) 3
Wheel motor (kW)	4	(3x) 1.5	1.5	4	(6x) 1.5
Feeding motor (kW)	(2x) 0.25	(4x) 0.12	(2x) 0.12	(2x) 0.37	(7x) 0.12
Total Power (kW)	17	14	5	13	34
Consumption (A)	35	33	14	28	60
Dust extractor conection (Ømm)	200	(3x) 80	-	-	-
Dimensions (mm)	1700X1610X1800	950X1450X1350	1380x1060x1480	2200x2500x1600	3500x3000x1900
Weight (kg)	1950	600	550	1430	3012

* with variable speed



MAX.
WIDTH



4 SIDES
FINISHING



WET
COOLING



1 SIDE
FINISHING



No. ABRASIVE
BELT STATIONS



TOP AND
BOTTON
FINISHING



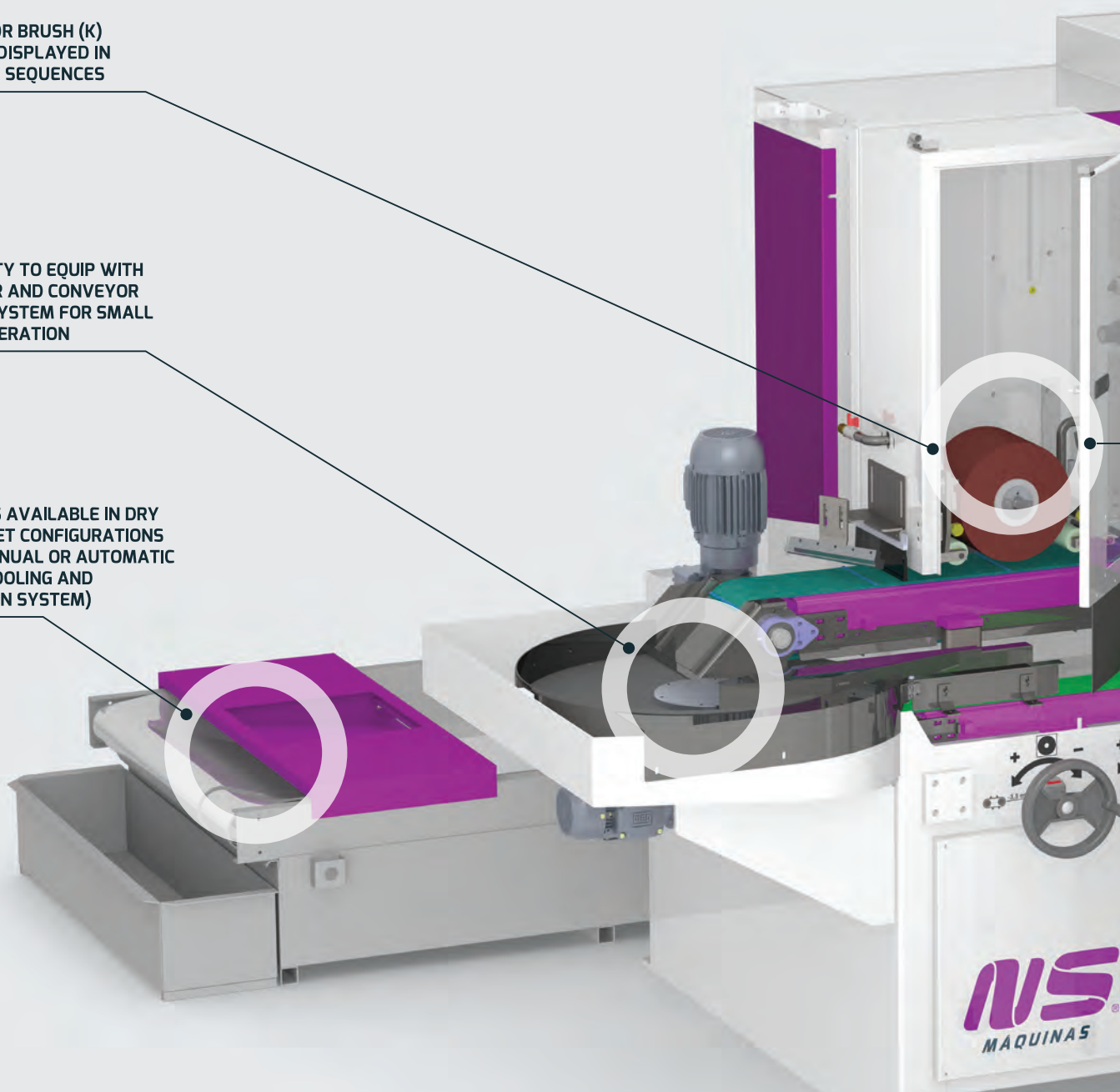
No. ABRASIVE
BRUSH STATIONS



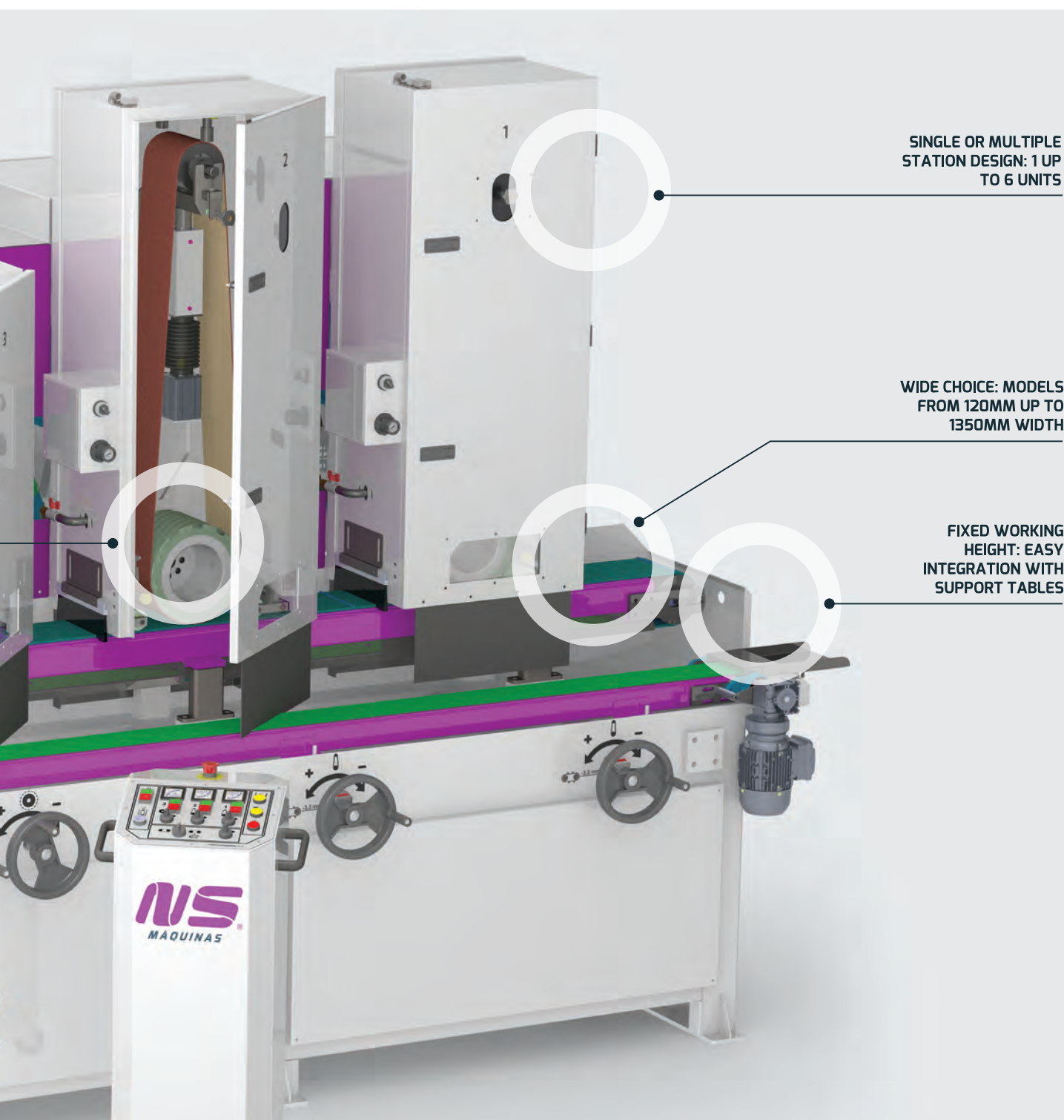
**BELT (Z) OR BRUSH (K)
OPTIONS DISPLAYED IN
VARIABLE SEQUENCES**

**POSSIBILITY TO EQUIP WITH
TRANSFER AND CONVEYOR
RETURN SYSTEM FOR SMALL
PARTS OPERATION**

**MACHINES AVAILABLE IN DRY
AND IN WET CONFIGURATIONS
(WITH MANUAL OR AUTOMATIC
WATER COOLING AND
FILTRATION SYSTEM)**



2 RECTANGULAR TUBE AND BAR FINISHING MACHINES



SINGLE OR MULTIPLE
STATION DESIGN: 1 UP
TO 6 UNITS

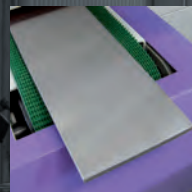
WIDE CHOICE: MODELS
FROM 120MM UP TO
1350MM WIDTH

FIXED WORKING
HEIGHT: EASY
INTEGRATION WITH
SUPPORT TABLES

FG170 2ZK



Different machine configurations with capacity up to 170mm (FG170) or 220mm (FG220)



2 and 3 stations available: belt and brush (ZK) and double belt and brush (2ZK)



Fixed working height enables to connect loading and unloading tables



FC120 ZK



Compact machine for simple operation for flat bars and rectangular tubes

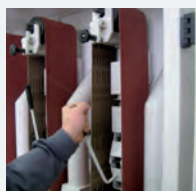


Thickness meter for accurate pressure adjustments

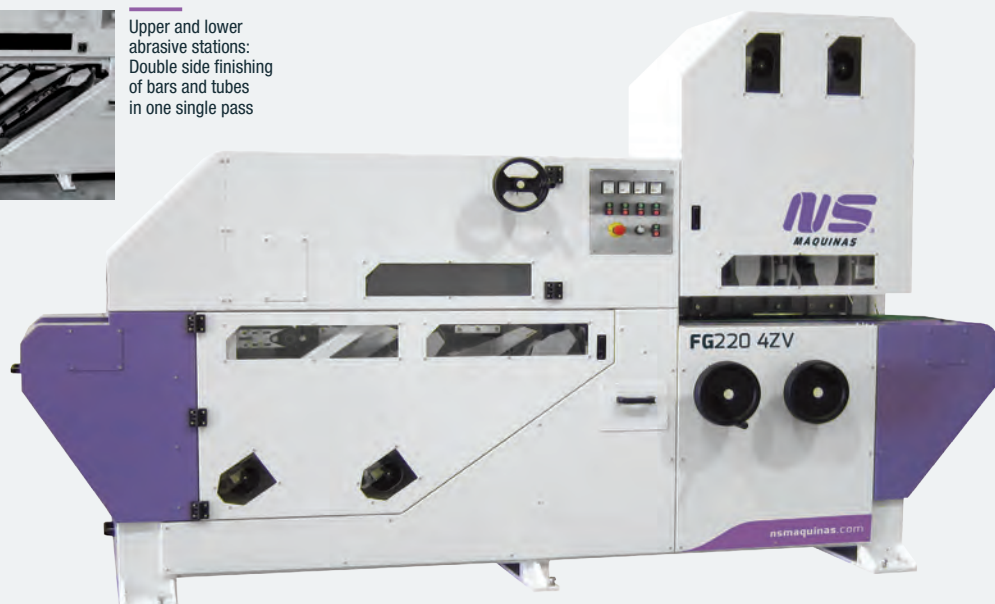
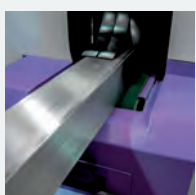




FG220 4ZV



Upper and lower
abrasive stations:
Double side finishing
of bars and tubes
in one single pass



FG330 2ZK



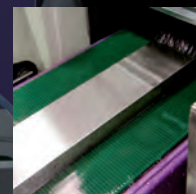
Capacity of 330mm
working width



Abrasive belt automatic
oscillation for perfect
tracking



FGW170 3Z



Different working
widths capacity:
170mm and 220mm



Manual or automatic
water filtration system

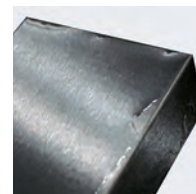


Air blower for tubes
drying after the last
abrasive station

FGW330 3Z HD



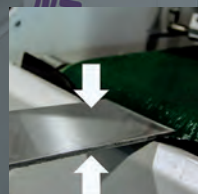
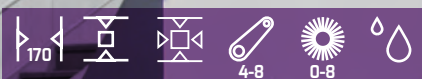
Stainless steel tubes,
bar stock
and metal sheet
belt grinding
and finishing



Independent abrasive
stations construction:
accurate setting



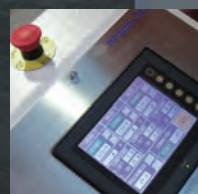
FGW170 4ZV



FGW170 4ZV: Top and bottom finishing of tubes, bars and aluminum profiles in one single pass



FGW170 8Z: Finishes all four sides simultaneously



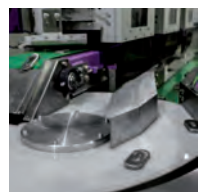
Touch screen panel for automatic regulation with programs saving feature



FGW170 2ZKR



Automatic return of small parts



TR120



1-3

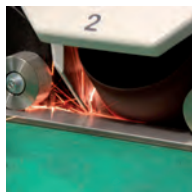


0-2

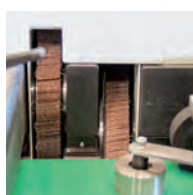
SIDE GRINDING MACHINE



Before and after side grinding



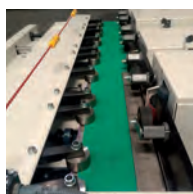
Angled grinding heads for upper and lower 45° beveling



Option: counter rotating lamella brushes available for edge rounding after side grinding



Side grinding stations with vertical oscillation for uniform wear of abrasive belts



Single adjustment with side pressure roller system: constant pressure along the complete bar





DM1100 2ZK

METAL SHEET FINISHING MACHINE



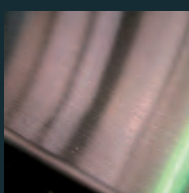
Possibility to have upgraded control panel with programs saving mode



Double or triple abrasive belt station plus finishing brush (2ZK and 3ZK)



Quick abrasive belt replacement



Consistent and smooth surface finishing



Brush unit with option to be used with oscillation (150 strokes/min)



DMW660 2Z

660
1100



METAL SHEET WET FINISHING MACHINE



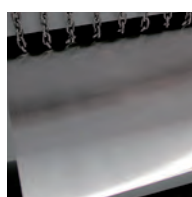
Independent stainless steel compartments for each finishing station



660mm and 1100mm maximum width models



Integrated filtering and pumping system



Technical Details

	FC120	FG170	FG220	FG220 4ZV	FG330	TR120
Working capacity (mm)	120x120	170x200	220x200	220x200	330x200	300x25
No. belt stations (Z)	1	1-2	1-2	4	1-2	1-3
No. brush stations (K)	0-1	1	1-2	-	1	0-1
Abrasive belt dimensions (mm)	120x1850	170x2000	220x2200	220x2200	330x2200	120x1850
Abrasive brush dimensions (mm)	120xØ200	170xØ200	220xØ200	-	330xØ200	(2x) 30xØ250
Abrasive belt speed (m/s)	20	20	20	20	20	20
Abrasive brush speed (m/s)	15	15	15	-	15	18
Feeding speed (m/min)	12	6+12	6+12	6+12	6+12	6
Abrasive belt motor per head (kW)	3	4	5.5	5.5	7.5	3
Abrasive brush motor per head (kW)	1.5	3	4	-	5.5	(2x) 0.25
Feeding motor (kW)	0.37	0.45	0.45	(3x) 0.25	0.55	0.37
Total Power (kW)	5 ⁽¹⁾	8 ⁽¹⁾	10 ⁽¹⁾	23	14 ⁽¹⁾	11 ⁽²⁾
Consumption (A)	12 ⁽¹⁾	18 ⁽¹⁾	22 ⁽¹⁾	44	30 ⁽¹⁾	24 ⁽²⁾
Dust extraction connection (Ø mm)	(2x) 80 ⁽¹⁾	(2x) 95 ⁽¹⁾	(2x) 100 ⁽¹⁾	(4x) 100	(2x) 100 ⁽¹⁾	(3x) 100 ⁽²⁾
Dimensions (mm)	1450x850x1800 ⁽¹⁾	1700x1000x2000 ⁽¹⁾	1700x1250x2000 ⁽¹⁾	3750x1350x2150	1750x1400x2050 ⁽¹⁾	2175x2100x1260 ⁽²⁾
Weight (kg)	500 ⁽¹⁾	750 ⁽¹⁾	950 ⁽¹⁾	2240	1100 ⁽¹⁾	1220 ⁽²⁾

	FGW170	FGW220	FGW330	DM1100 2ZK	DMW660 2Z	DMW1100 2Z
Working capacity (mm)	170x200	220x200	330x200	1100x120	660x120	1100x120
No. belt stations (Z)	1-6	1-6	1-6	2	2-6	2-6
No. brush stations (K)	0-2	0-2	0-2	1	-	-
Abrasive belt dimensions (mm)	170x2000	220x2200	330x2200	(2x) 1100x2200	660x2200	1100x2200
Abrasive brush dimensions (mm)	170xØ200	220xØ200	330xØ250	1120xØ200	-	-
Abrasive belt speed (m/s)	20	20	20	20	20	20
Abrasive brush speed (m/s)	15	15	15	15	-	-
Feeding speed (m/min)	6+12	6+12	6+12	4-15	4-15	4-15
Abrasive belt motor per head (kW)	4	5.5	7.5	18.5	11	18.5
Abrasive brush motor per head (kW)	3	4	5.5	9.2	-	-
Feeding motor (kW)	0.45	0.75	0.75	0.37	0.37	0.45
Total Power (kW)	9 ⁽³⁾	12 ⁽³⁾	16 ⁽³⁾	49	25	40
Consumption (A)	15 ⁽³⁾	25 ⁽³⁾	30 ⁽³⁾	97	50	85
Dust extraction connection (Ø mm)	-	-	-	(3x) 150	-	-
Dimensions (mm)	2100x1100x2200 ⁽³⁾	2100x1150x2200 ⁽³⁾	2100x1300x2200 ⁽³⁾	2230x2210x2205	2650x2310x2450	2750x2800x2450
Weight (kg)	1250 ⁽³⁾	1300 ⁽³⁾	1450* ⁽³⁾	4200	4100	5200

⁽¹⁾ Values for ZK version

⁽²⁾ Values for 3Z version

⁽³⁾ Values for 2Z version



MAX.
WIDTH



DEBURRING
STATION



ABRASIVE
BRUSH STATION



1 SIDE
FINISHING



CROSS BELTS



2 SIDES
FINISHING



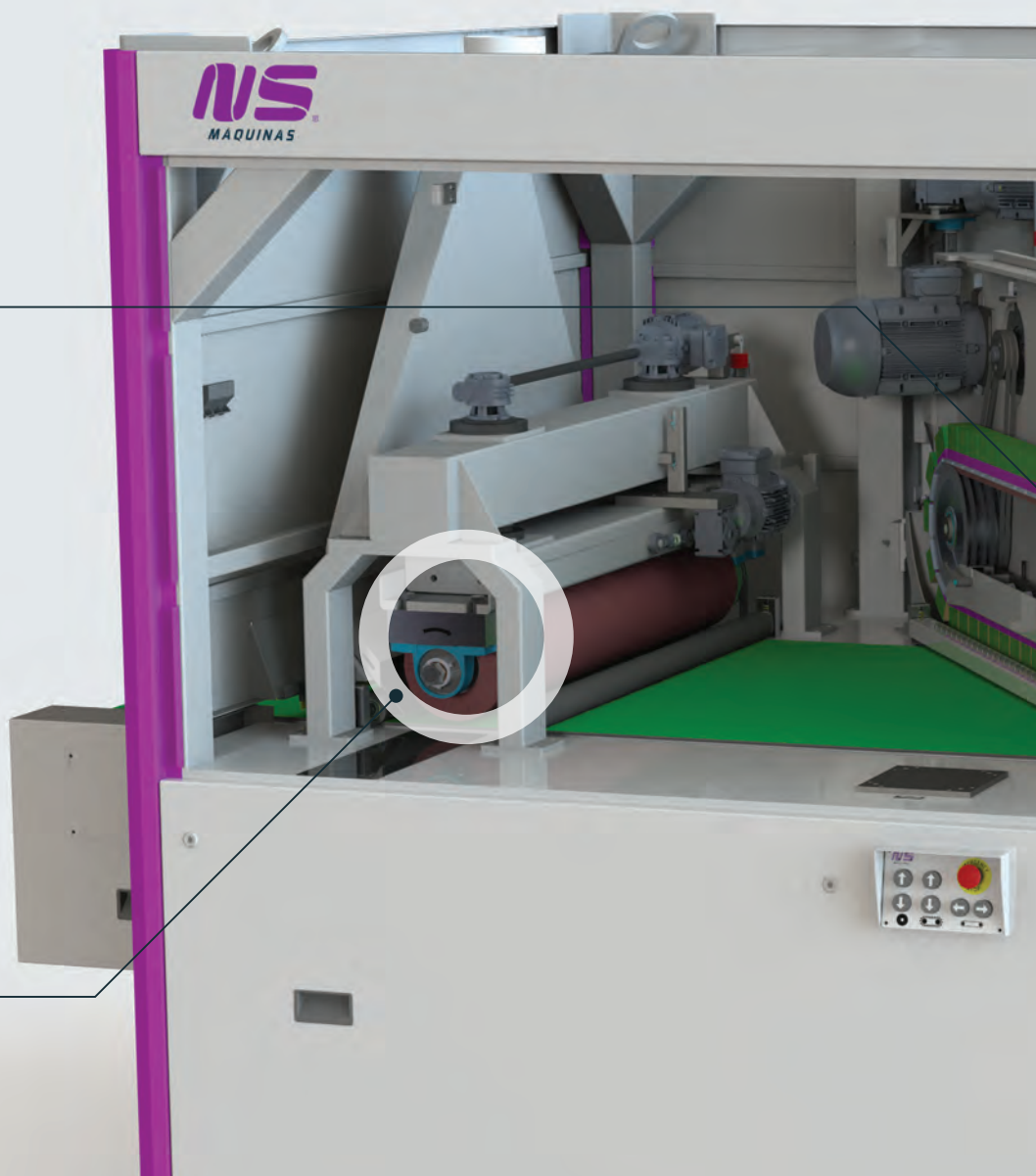
PLANETARY
BRUSHES



EDGE ROUNDING UNIT
BOTH FOR SMALL AND
LARGE PARTS WITH
ABRASIVE CROSS BELTS
(C) OR WITH PLANETARY
BRUSHES (PK)

SINGLE AND DOUBLE
SIDED CONFIGURATIONS

FINAL SURFACE FINISHING
WITH OSCILLATING BRUSH (K)
OR WITH NON-WOVEN
WIDE BELT (Z)



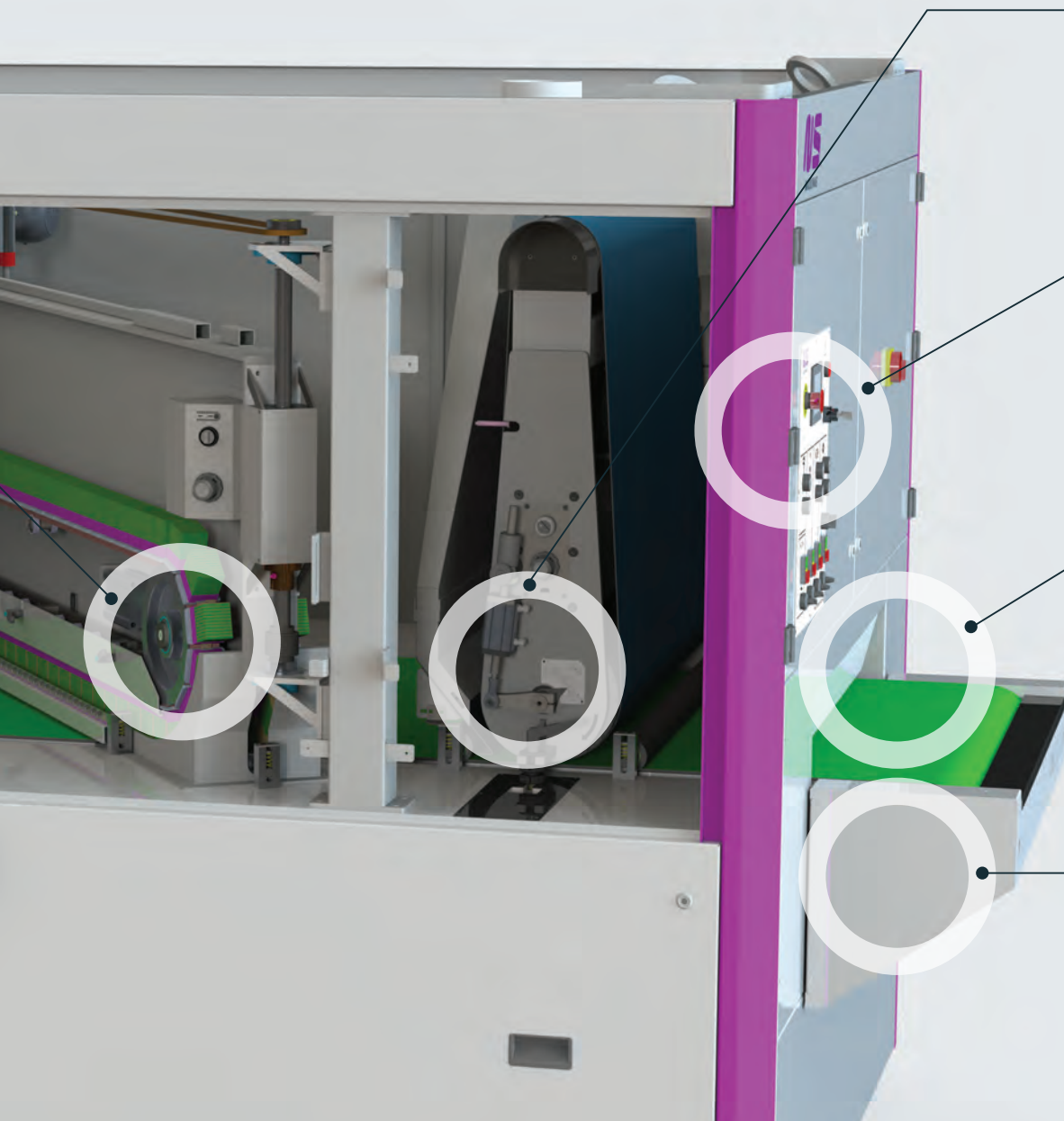
3 DEBURRING MACHINES

DEBURRING HEAVY OR LIGHT BURRS, DROSS AND SLAG AFTER LASER, PLASMA, SHEARING OR PUNCHING WITH WIDE BELT CONTACT ROLLER (Z) OR WITH DEBURRING DRUM (D)

USER FRIENDLY OPERATING PANEL WITH EASY KEYS AND INTEGRATED TOUCHSCREEN

DIFFERENT WORKING WIDTHS AVAILABLE FROM 660MM UP TO 1600MM

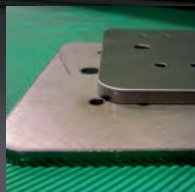
FIXED WORKING HEIGHT IN EVERY MULTIPLE HEAD CONFIGURATION



DM1100 C



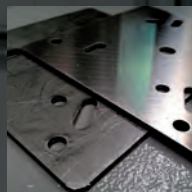
EDGE ROUNDING MACHINE



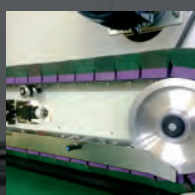
Strong edge rounding



Perfect linear finishing
on the complete surface
of the part



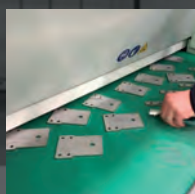
Removing oxide layer
with wire brushes cross
belts



Two abrasive cross belts
operating in opposite
directions



Small parts processing
down to 50x50mm



Edge rounding of parts
with protective film
without touching the
finished surface



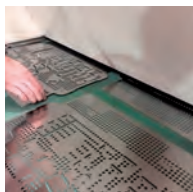
TRUMPF
TruLaser 3030

1600



DM1600 C

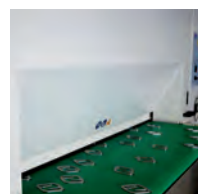
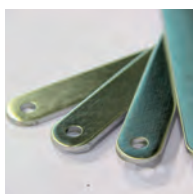
EDGE ROUNDING MACHINE



Larger working capacity
up to 1600mm width



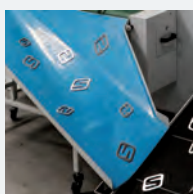
Rounding edges of thick
plate steel parts



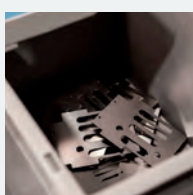
PARTS RETURN SYSTEM



Ideal for small parts
when processing both
sides top and bottom



Easy to remove and
store

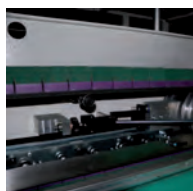


Continuous flow of parts
with single operator

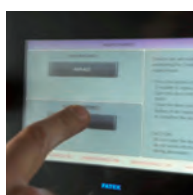


DM1100 2C

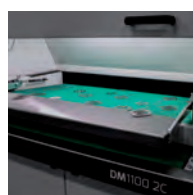
DOUBLE SIDED EDGE ROUNDING



Top and bottom edge rounding of laser, waterjet or punched parts



Easy abrasives replacement: automatic positioning of upper and lower cross belts



Single sided small parts processing down to 50x50mm thanks to additional conveyor and support table



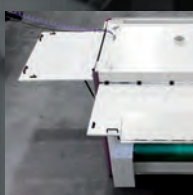


DM1100 ZC

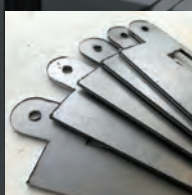
DEBURRING AND EDGE ROUNDING MACHINE



Deburring station
combined with two edge
rounding cross belts



Easy access for cleaning
and maintenance all
around the machine



Before and after laser
cut parts deburring and
edge rounding



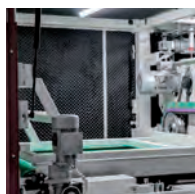
DM1350 ZC: 1350mm
width table allows to
deburr or finish wider
metal sheets



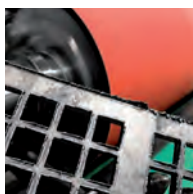
DM1100 Z2C



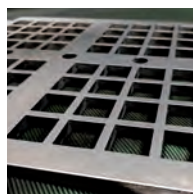
DEBURRING AND DOUBLE SIDED EDGE ROUNDING



Upper deburring and edge rounding station



Large deburring drum as alternative to remove heavy burrs and slag



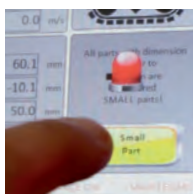
Lower edge rounding station



Parts return system



Deburring with wide abrasive belt and double sided edge rounding with cross belts



Small parts processing option



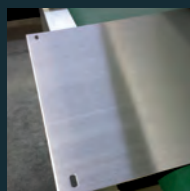
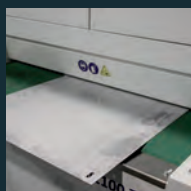


DM1100 ZCK

DEBURRING, EDGE ROUNDING AND FINISHING MACHINE



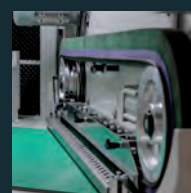
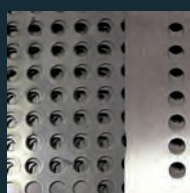
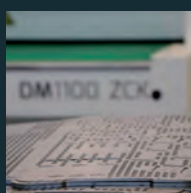
Three head configuration: deburring, edge rounding and finishing



Consistent surface finishing for sheet metal components of many shapes and sizes



2 choices for the last station: finishing brush unit (ZCK) or finishing wide belt (ZCZ)



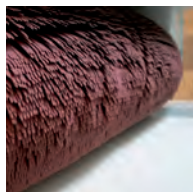
DM660 ZPK



DEBURRING AND EDGE ROUNDING MACHINE



Deburring unit and planetary double brush station for edge rounding



Large radius on heavy plate parts even in internal contours



Special laser oxide removal brushes to clean oxide layer uniformly



DM660 ZPKZ: 3 station configuration. Deburring, edge rounding and finishing



Technical Details

	DM1100 C	DM1600 C	DM1100 2C	DM660 ZC
Working capacity (mm)	1100x50	1600x50	1100x50	660x120
No. belt stations	-	-	-	1
No. cross belt stations	1	1	2	1
Abrasive belt dimensions (mm)	-	-	-	660x2200
Abrasive belt speed (m/s)*	-	-	-	8-22
Cross belt speed (m/s)*	2-8	2-8	2-8	2-8
Feeding speed (m/min)	0.6-3.2	0.6-3.2	0.6-3.2	0.9-13
Abrasive belt motor (kW)	-	-	-	11
Cross belt motor (kW)	(2x) 3	(2x) 4	(4x) 3	(2x) 3
Feeding motor (kW)	0.18	0.12	(3x) 0.18	0.37
Total Power (kW)	6	8	13	19
Consumption (A)	18	13	30	38
Dust extraction connection (Ø mm)	150	150	196	(2x) 150
Dimensions (mm)	2213x1530x1940	2730x1740x1940	2560x1980x2150	1720x2300x2230
Weight (kg)	1200	1790	2250	2750

	DM1100 ZC	DM1100 Z2C	DM1100 ZCK	DM660 ZPK
Working capacity (mm)	1100x120	1100x120	1100x120	660x120
No. belt stations	1	1	1	1
No. cross belt stations	1	2	1	-
No. brush stations	-	-	1	1
Abrasive belt dimensions (mm)	1100x2200	1100x2200	1100x2200	660x2200
Abrasive brush dimensions (mm)	-	-	1120xØ200	(2x) 800xØ350xØ100
Abrasive belt speed (m/s)*	8-22	8-22	8-22	8-22
Cross belt speed (m/s)*	2-8	2-8	2-8	-
Abrasive brush speed (m/s)*	-	-	8-18	6-31
Feeding speed (m/min)	0.9-13	0.6-3.2	0.9-13	0.4-12
Abrasive belt motor per head (kW)	18.5	18.5	18.5	11
Cross belt motor (kW)	(2x) 3	(4x) 3	(2x) 3	-
Abrasive brush motor per head (kW)	-	-	9.2	(2x) 2.2
Feeding motor (kW)	0.37	(3x) 0.18	0.37	0.37
Total Power (kW)	27	33	37	29
Consumption (A)	55	62	73	56
Dust extraction connection (Ø mm)	(2x) 150	150 + 185	(2x) 150 + (2x) 101	(2x) 150
Dimensions (mm)	2300x2260x2230	3560x2320x2300	3840x2200x2200	3020x1980x2300
Weight (kg)	3250	4900	4700	3500

* with variable speed



MAX.
WIDTH



BENT
TUBE



WET
COOLING



MAX.
DIAMETER



No. ABRASIVE
BELT STATIONS



STRAIGHT
TUBE



No. POLISHING
STATIONS



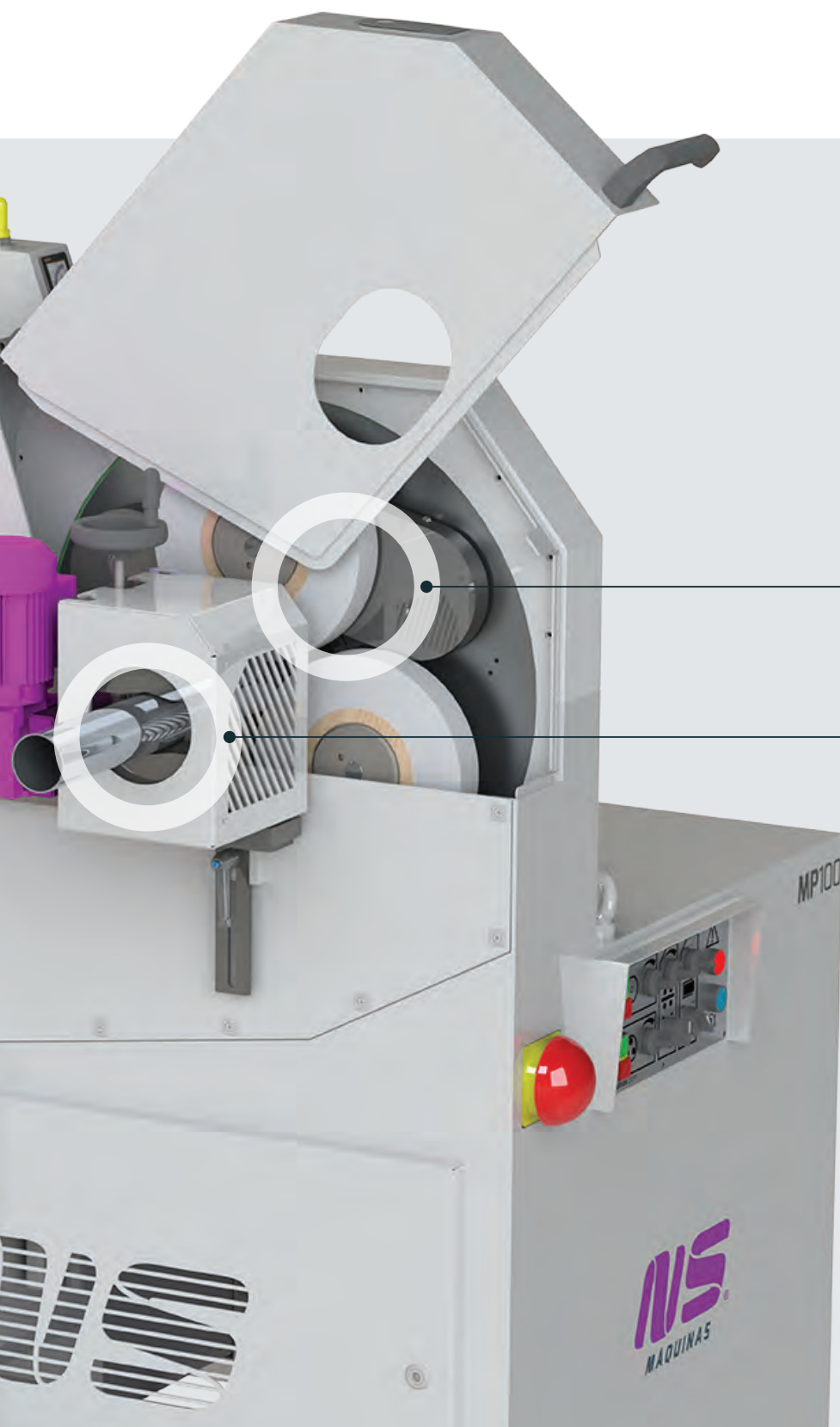
**AUTOMATIC POLISHING SOAP;
SPRAY GUN WITH LIQUID
COMPOUND OR SOLID
POLISHING BAR SYSTEM**

**DIFFERENT MODELS AVAILABLE:
ROUND TUBES UP TO Ø254MM,
RECTANGULAR TUBES UP TO 220MM**



4

MIRROR POLISHING MACHINES



SINGLE OR MULTIPLE
POLISHING STATIONS

UNIQUE DESIGNS FOR HIGH
QUALITY MIRROR POLISHING.
SYSTEMS WITHOUT TUBE SUPPORT

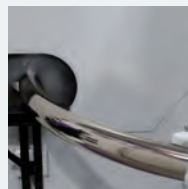
MP100



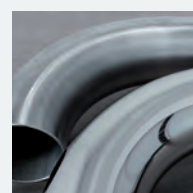
ROUND TUBE POLISHING MACHINE



Mirror polishes straight and curved tubes



Before and after mirror polishing



Automatic solid soap system



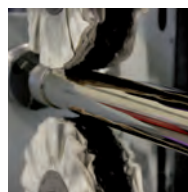
PC70 2P



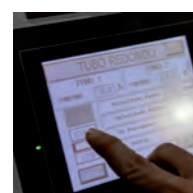
ROUND AND RECTANGULAR TUBE POLISHING MACHINE



Polishes round and rectangular straight tubes

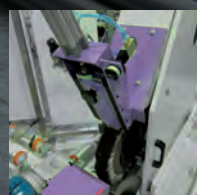


Automatic polishing spray system integrated





RC200 enables wet and dry belt finishing and mirror polishing



Option for automatic polishing soap system



Easy changing of contact roller for polishing wheel



RC200

ROUND TUBE POLISHING
AND FINISHING MACHINE



PP220 2K

RECTANGULAR TUBE AND FLAT BAR POLISHING MACHINE



Double brush with independent wear and pressure regulation



Suitable for rectangular tubes and flat bars



PL40



MANUAL POLISHING AND FINISHING MACHINE



PL40 and PL80 machines are available in different configurations:
ZP (1 abrasive belt plus one polishing wheel unit),
PP (double polishing wheel unit) and ZZ (double abrasive belt)



Simple and reliable polishing machines with one single motor



PL80



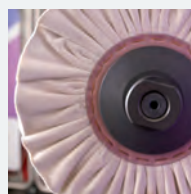
MANUAL POLISHING AND FINISHING MACHINE



Long distance from the polishing unit to the body of the machine: accessibility for awkward-shaped work pieces



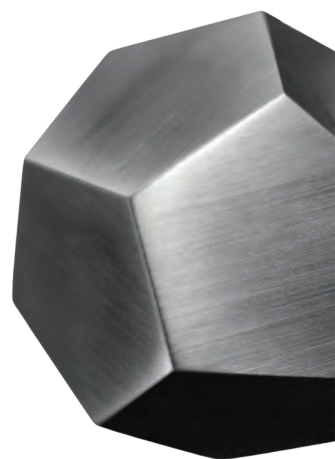
Double motor for independent operation with two workers



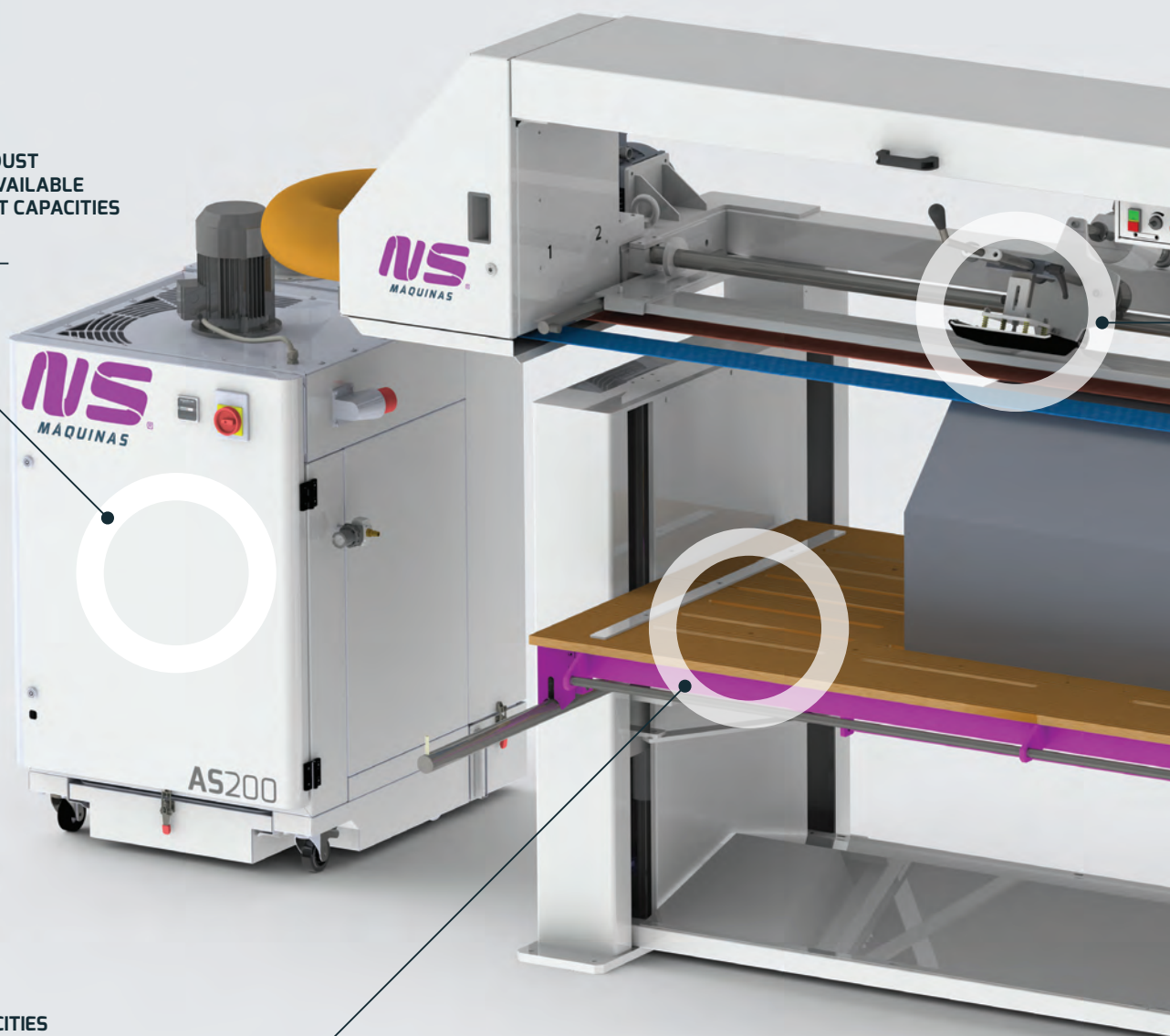
Technical Details

	MP100	PC70 2P	RC200	RC250	PP220 2P	PL40	PL80
Working capacity (Ømm)	40-114	Ø70 or 70x70	10-206	10-254	220x200	-	-
No. of Polishing Stations (P)	1	2	1	1	2	0-2	0-2
No. of Abrasive Belt Stations (Z)	-	-	1	1	-	0-2	0-2
Polishing wheel dimensions (mm)	(3x) (2x) Ø180-240	(2x) (3x) Ø350x35	(3x) Ø350x75	(3x) Ø350x75	(2x) 220xØ400	(3x) Ø500x35	(3x) Ø500x35
Abrasive belts dimensions (mm)	-	-	100x3000	100x3000	-	3500x50	3500x50
Polishing wheel speed (m/s)	up to 35	26.6-36	30	30	15	30	30
Abrasive belts speed (m/s)	-	-	25	25	-	30	30
Feeding speed (m/min)	0-3	1-6	1-5	1-5	4-15	-	-
Polishing motor (kW)	5.5	(2x) 5.5	4	5.5-7.5	7.5	4	4-7.5
Abrasive belts motor (kW)	-	-	4	5.5-7.5	-	-	4-7.5
Feeding motor (kW)	(2x) 0.12	(2x) 0.25	1.5	1.5	0.55	-	-
Total Power (kW)	6	12	6-7	7-9	11	4	8-15
Consumption (A)	22	24	11-15	15-18	22	9	18-30
Dust extractor connection (Ømm)	120	(2x) 120	100	100	(2x) 150	(2x) 120	(2x) 120
Dimensions (mm)	1250x1100x1550	3760x1400x2125	1700x900x1950	1700x900x1950	2210x1170x1872	1250x650x2600 ⁽¹⁾	1800x700x2800 ⁽¹⁾
Weight (kg)	420	2050	530	550	1300	320 ⁽¹⁾	580 ⁽¹⁾

⁽¹⁾ Values for ZP model



DRY AND WET DUST
EXTRACTORS AVAILABLE
WITH DIFFERENT CAPACITIES
(A, AS AND AW)



WORKING CAPACITIES
UP TO 4000MM
AVAILABLE

5 OTHER BELT FINISHING MACHINES AND EQUIPMENT



BELT GRINDING WITH
CONTACT ROLLER OR WITH
FINISHING PAD. TOOLS
MOUNTED ON COUNTER
WEIGHT SYSTEM

SINGLE OR DOUBLE
ABRASIVE BELT
EQUIPMENT

WELD SEAM POLISHING.
IRREGULAR SURFACES FINISHING.
LARGE PANELS BELT GRINDING

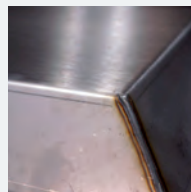
TUBES NOTCHING (MBL),
TUBE DRILLING (TDM), END-DEBURRING (OD)
AND FETTLING (LV AND LHV)

LMD2500

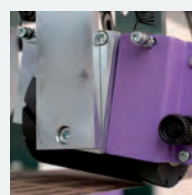
LONG BELT FINISHING MACHINE



Boxes and welded
structures belt finishing



Flexible contact roller



LMD4000

LONG BELT FINISHING MACHINE



Control panel easy
to reach positioned
at the center

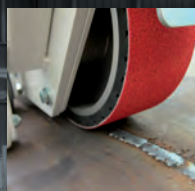


Tools in counterweight
system - smooth
operation

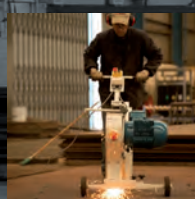


CLF75

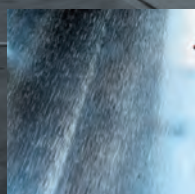
PANELS BELT GRINDING MACHINE



Weld seam and heavy
sheets grinding



Manual adjustment of
pressure for precise
finishing



LMD2500 2Z

LONG BELT FINISHING MACHINE



Double station: belt
grinding and finishing in
one machine



Pneumatic abrasive belt
tensioning



LR30 AT

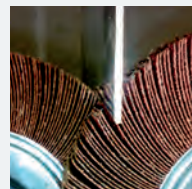
METAL SHEET DEBURRING MACHINE



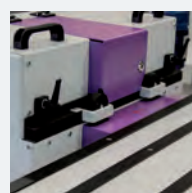
Manual version LR30



Two deburring wheels
in opposite directions
deburr upper and lower
edges in one single pass



Automatic feeding and
support table for large
metal sheets



Double working position:
horizontal and vertical

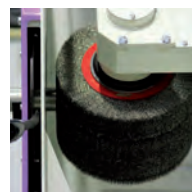


OD120

TUBE END DEBURRING MACHINE



Orbital brush with double
rotation deburring inside
and outside edge of
tubes without rotating
them

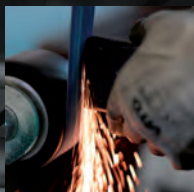


Variety of tubes
and profiles with the
same model



LB50

WORK BENCH BELT GRINDING MACHINE



Contact roller grinding
for material removal and
deburring

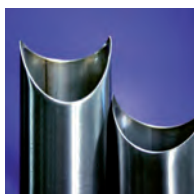


Free belt area for flexible
finishing



MBL120

TUBE NOTCHING MACHINE



Perfect junction of tubes



Top abrasive belt section
for tube end deburring

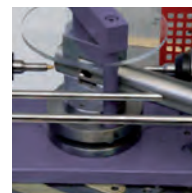
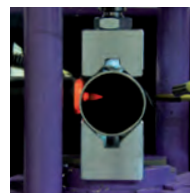


TDM2 AT

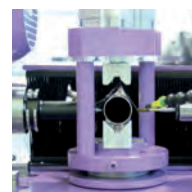
TUBE DRILLING MACHINE



Tubes drilling, flowdrilling
and threading



Automatic
or semi-automatic
manual models



LHV200

HORIZONTAL AND VERTICAL BELT GRINDING MACHINE



Horizontal and vertical
abrasive belt working
position



LV200

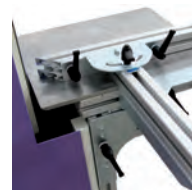
VERTICAL BELT GRINDING MACHINE



Fettling tubes at 45°



Adjustable table and guide
angles





Filter bag dust extractors

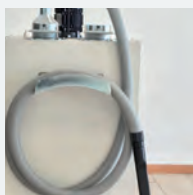


Single or double bag filter available in different capacities (A100, A200, A300 and A400)



A200

DUST EXTRACTOR



High efficiency cartridges with automatic filters cleaning system



Ample capacity for all machine requirements (AS200, AS400 and AS800)



AS200

DUST EXTRACTOR



Wet Systems made in steel or in stainless steel (AW600, AW800 and AW1300)



AW800

WET DUST EXTRACTOR

Technical Details

	LMD2500	LMD3100	LMD4000	LR30 AT	MBL120	TDM2
Working capacity (Ømm)	2500x850x700	3100x850x600	4000x1000x700	0-15	○ 110 □ 110x110	○ 80 □ 80x80 — 80x15
Max. Drill (mm)	-	-	-	-	-	Ø 43; M10 (flow drill)
Abrasive belts dimensions (mm)	7800x120	9000x120	10800x120	30xØ250	2000x120	-
Abrasive belts speed (m/s)	20	20	20	6	30	-
Main motor (kW)	4	4	5,5	(2x) 0,22-0,15	3	(2x) 2,2
Total Power (kW)	5	5	6	1	3	6
Consumption (A)	9	10	12	2	7	10
Dust extractor conection (Ømm)	120	120	120	80	(2x) 80	-
Dimensions (mm)	4000x1600x2000	4600x1600x2000	5500x1900x2050	1520x820x1150	1450x950x1200	4100x1700x1450
Weight (kg)	920	930	1000	180	210	400

	LB50	CLF75	LHV200	LV200	OD120	OD160
Working capacity (Ømm)	-	-	-	-	10-120	10-160
Abrasive belts dimensions (mm)	1750x50	2000x75	3200x200	3000x200	(3x) Ø250x60	(4x) Ø250x60
Abrasive belts speed (m/s)	30	30	18	19	18+35	18+35
Total Power (kW)	0,75	4	3	3	3	4
Consumption (A)	2	9	6	6	8	10
Dust extractor conection (Ømm)	-	80	150	120	-	-
Dimensions (mm)	760x340x380	1520x700x1030	1900x700x1200	810x1100x1850	1140x670x1400	1140x670x1400
Weight (kg)	35	97	190	300	505	540

	A100	A200	AS200	AS400	AW600	AW1300
Motor (kW)	2,2	5,5	2,2	4	3	15
Filters (mm)	Ø450x1100	(2x) Ø480x1500	(2x) Ø325x400	(6x) Ø325x750	-	-
Capacity (m³/h)	1700	2200	2280	4000	3200	11800
Connection (Ømm)	150	150	150	150	170	350
Dimensions approx. (mm)	1000x500x2200	1700x500x2200	955x750x1450	1200x1100x2250	Ø600x2200	Ø1300x3300
Weight approx. (kg)	60	80	170	470	200	920

With a technical and sales network spread over the 5 continents NS is able to supply the complete and on time support from the machine purchase and set-up to the spare parts delivery and technical advice.

NS invites you to come and visit the company where you may join NS team and feel and experience the use of an NS machine.

NS is close to the customer

SOME OF OUR REFERENCES



Pratt & Whitney
A United Technologies Company

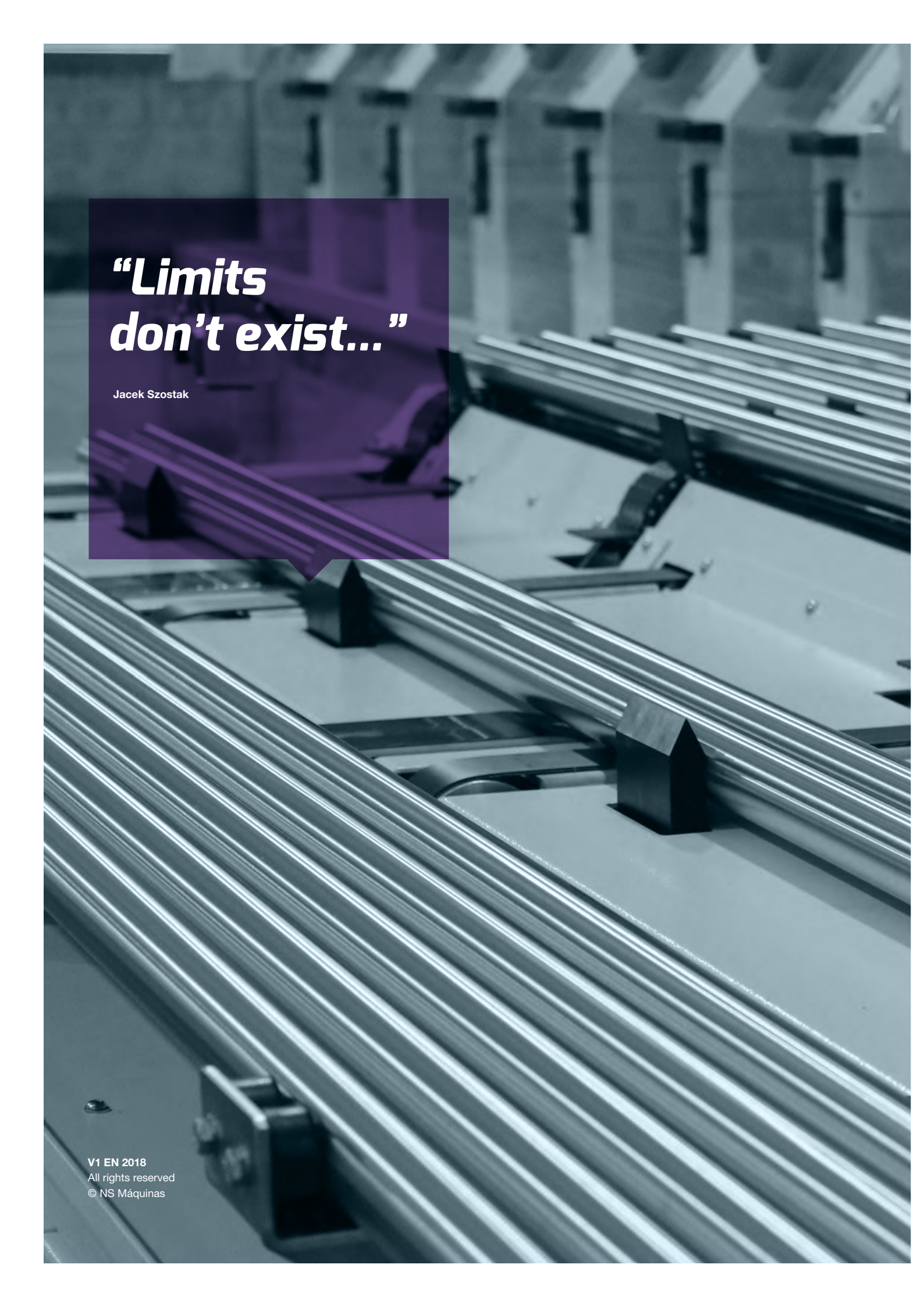


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ESTABLECIMIENTOS
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The background of the entire page is a grayscale photograph of an industrial setting, likely a factory or workshop. It shows multiple long, parallel metal beams or pipes arranged in rows, receding into the distance. The lighting is dramatic, with strong highlights and shadows. A semi-transparent purple rectangular overlay is positioned on the left side of the image, containing the main text and author's name.

***“Limits
don’t exist...”***

Jacek Szostak





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