

WINDING MACHINES AND EQUIPMENT FOR TRANSFORMER PRODUCTION



TECNO-P. TECHNOLOGY

di Pastori Giordano

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AVB 150-2C-SFP

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 150-2C-SFP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-60
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- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	20
Conductor width	max mm	150
Conductor thickness	min mm	0.10
Conductor thickness	max mm	1.00
Coil external diameter including sockets	max mm	400
Winding tolerance between coils	max mm	+/-0.5

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	25
Insulating material width	max mm	160
Insulating material thickness	min mm	0.023
Insulating material thickness	max mm	0.070

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	150/300
Conductor coil external diameter	max mm	700
Conductor alignment run	max mm	+/- 25

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	1300
Length	mm	3500
Height	mm	1600

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 200-1C-TIG-E

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TECHNICAL DATA

Winding machine – Model AVB 200-1C-TIG-E

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-100
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- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	20
Conductor width	max mm	200
Conductor thickness	min mm	0.15
Conductor thickness	max mm	1.50
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	25
Insulating material width	max mm	210
Insulating material thickness	min mm	0.023
Insulating material thickness	max mm	0.070

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

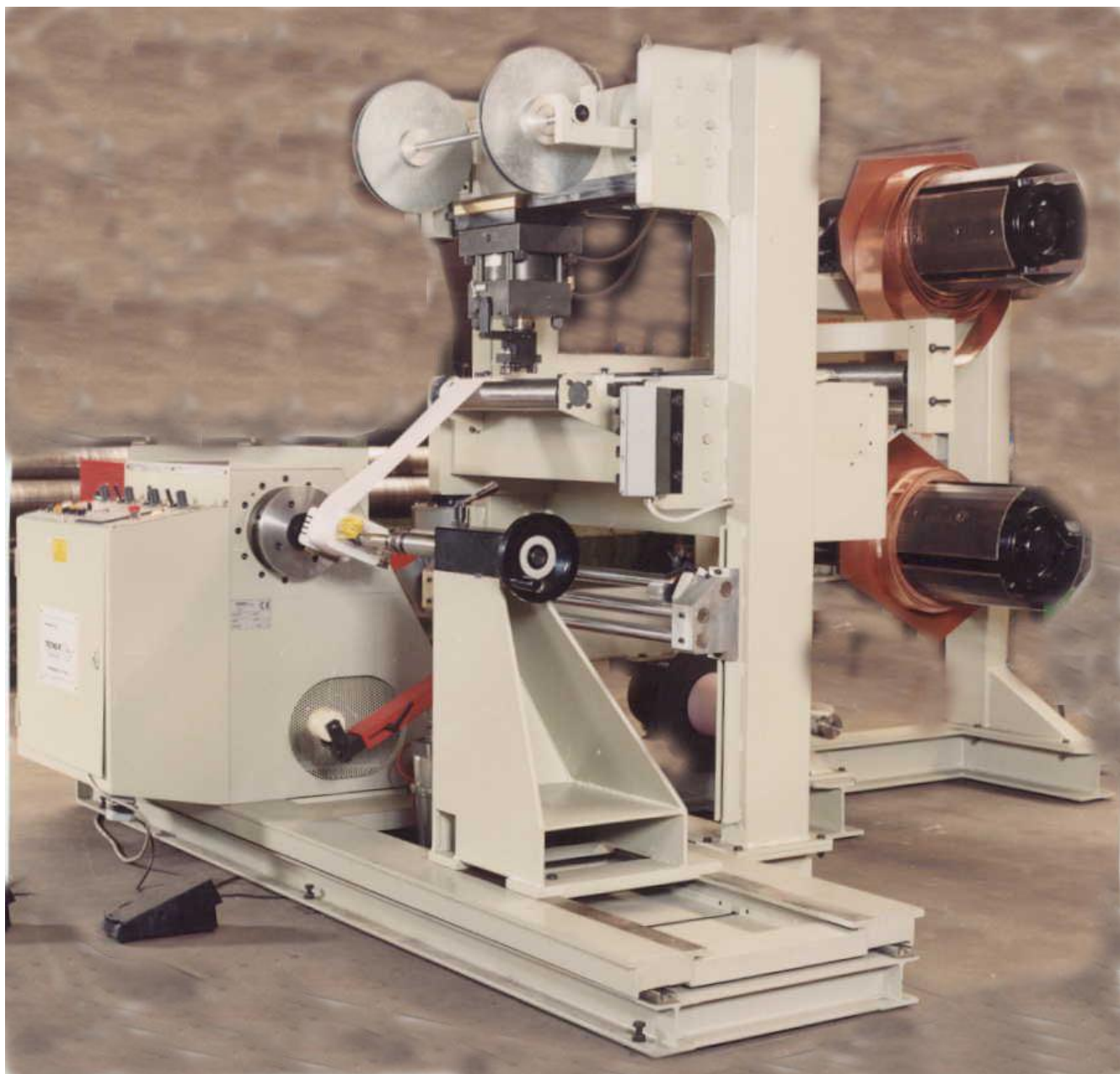
Width	mm	2100
Length	mm	4000
Height	mm	2100

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 600-2C-SFP

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TECHNICAL DATA

Winding machine – Model AVB 600-2C-SFP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50
Distance between traction and tailstock	mm	1200

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	800
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.40

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3250
Length (2 coils vertical version)	mm	3500
Length (2 coils horizontal version)	mm	4500
Height	mm	2450

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 600-2C-TIG-SP

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TECHNICAL DATA

Winding machine – Model AVB 600-2C-TIG-SP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50
Distance between traction and tailstock	mm	1000

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	800
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.40

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3000
Length	mm	4200
Height	mm	2500

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 600-4C-SFP-8P

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TECHNICAL DATA

Winding machine – Model AVB 600-4C-SFP-8P

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50
Distance between traction and tailstock	mm	1000

- **WORKING AREA FOR FOIL CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	800
Winding tolerance between coils	max mm	+/-1

- **WORKING AREA FOR STRIP CONDUCTOR WINDINGS**

Conductor width	min mm	To define
Conductor width	max mm	To define
Conductor thickness	min mm	To define
Conductor thickness	max mm	To define
Conductor section	min mm ²	To define
Conductor section	max mm ²	To define

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.40

- **CONDUCTOR UNWINDER**

Foil conductor coil internal diameter	mm	300/400
Foil conductor coil external diameter	max mm	1000
Strip conductor coil internal diameter	mm	32
Strip conductor coil external diameter	mm	500

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	4500
Length	mm	5200
Height	mm	2450

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 600-4C-SFP-TMI

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TECHNICAL DATA

Winding machine – Model AVB 600-4C-SFP-TMI

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50
Distance between traction and tailstock	mm	1550

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.25
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	800
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3250
Length	mm	3500
Height	mm	2450

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 600-4C-TIG

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TECHNICAL DATA

Winding machine – Model AVB 600-4C-TIG

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	600
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	4200
Length	mm	4200
Height	mm	2400

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



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Winding machine – Model AVB 600-4C-SFP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

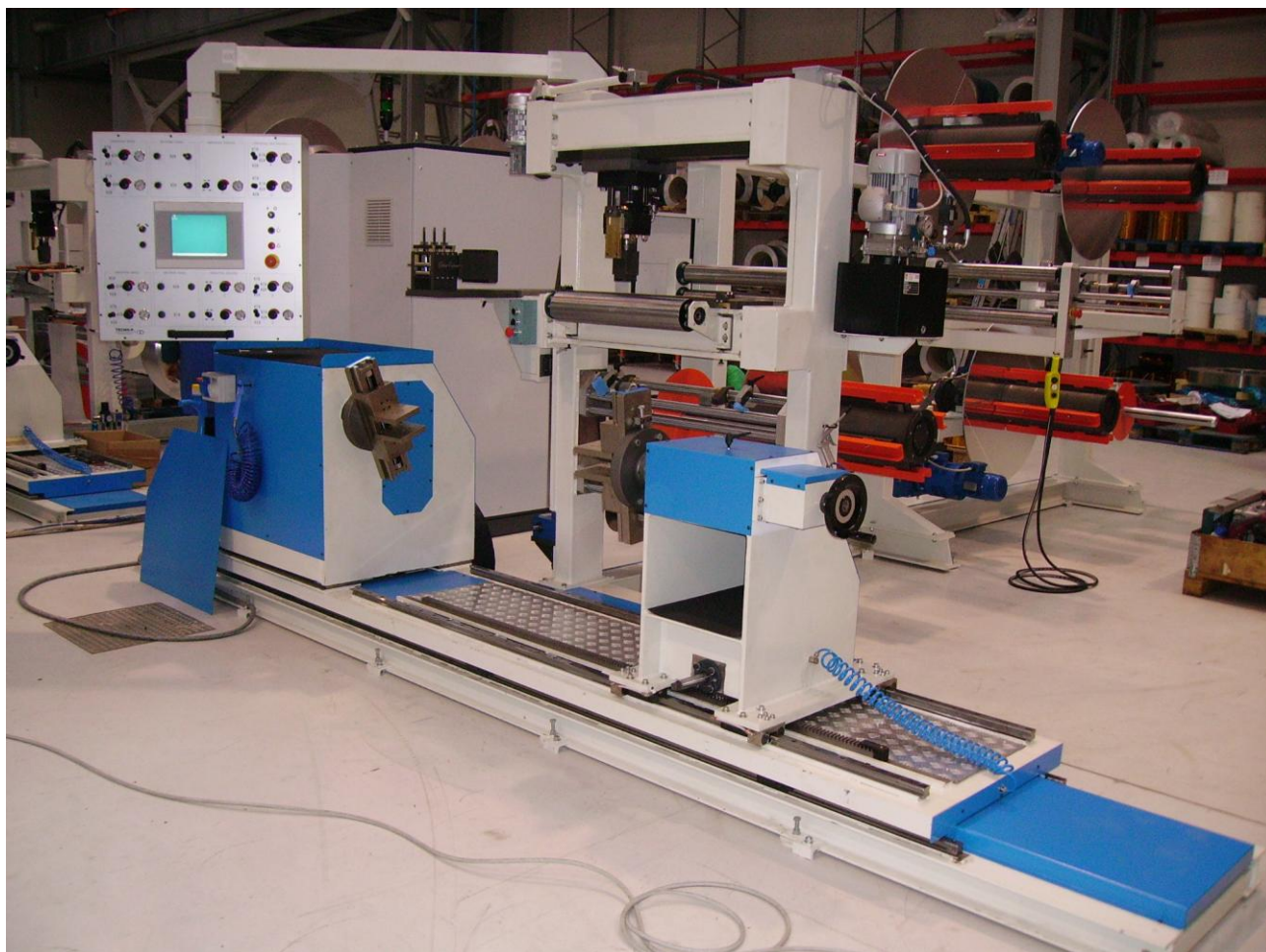
Width	mm	3700
Length	mm	7500
Height	mm	2800

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 600-4C-SFP-4FP

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TECHNICAL DATA

Winding machine – Model AVB 600-4C-SFP-4FP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-50
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- **WORKING AREA FOR FOIL CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	600
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **WORKING AREA FOR WIRE CONDUCTOR WINDINGS**

Type of conductor		Cu
Conductor width	min mm	1
Conductor width	max mm	5
Quantity of wires to be coiled	max No.	4

- **WORKING AREA FOR STRIP CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	5x3
Conductor width	max mm	15x5
Quantity of strips to be coiled	max No.	4

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	110
Insulating material width	max mm	650
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	5000
Length	mm	7500
Height	mm	2800

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVFP 600-4C

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TECHNICAL DATA

Winding machine – Model AVFP 600-4C

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-80
Coil weight	max. daN	1000

- **WORKING AREA**

Type of conductor in wire		Al / Cu
Wire diameter	min mm	1
Wire diameter	max mm	6

Type of conductor in strip		Al / Cu
Strip width	min mm	5
Strip width	max mm	15
Strip thickness	min mm	3
Strip thickness	max mm	5

Quantity of conductors to coil	max No.	4
Coil external diameter	max mm	1000
Useful passage for wire-strip guide head	max mm	100

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3000
Length	mm	3500
Height	mm	2300

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVFP 900-4C

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TECHNICAL DATA

Winding machine – Model AVFP 900-4C

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-80
Coil weight	max. daN	1000

- **WORKING AREA**

Type of conductor in wire		Al / Cu
Wire diameter	min mm	1
Wire diameter	max mm	6

Type of conductor in strip		Al / Cu
Strip width	min mm	5
Strip width	max mm	15
Strip thickness	min mm	3
Strip thickness	max mm	5

Quantity of conductors to coil	max No.	4
Coil external diameter	max mm	1200
Useful passage for wire-strip guide head	max mm	100

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3600
Length	mm	3500
Height	mm	2300

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVFP 1200-4C

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TECHNICAL DATA

Winding machine – Model AVFP 1200-4C

- TRACTION AND TAILSTOCK UNIT

Turns - min/1° for conductor winding	No.	0-80
Coil weight	max. daN	1000

- WORKING AREA

Type of conductor in wire		Al / Cu
Wire diameter	min mm	1
Wire diameter	max mm	6

Type of conductor in strip		Al / Cu
Strip width	min mm	5
Strip width	max mm	15
Strip thickness	min mm	3
Strip thickness	max mm	5

Quantity of conductors to coil	max No.	4
Coil external diameter	max mm	1800
Useful passage for wire-strip guide head	max mm	100

- OVERALL DIMENSIONS OF THE MACHINE

Width	mm	3600
Length	mm	3500
Height	mm	2300

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 700-1C-E

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TECHNICAL DATA

Winding machine – Model AVB 700-1C-E

- TRACTION AND TAILSTOCK UNIT

Turns - min/1° for conductor winding	No.	0-25
Turns - min/1° for insulating tape winding	No.	0-50

- WORKING AREA

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	700
Conductor thickness	min mm	0.25
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	600
Winding tolerance between coils	max mm	+/-1

- INSULATING MATERIAL UNWINDER

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	750
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	3250
Length	mm	3400
Height	mm	2450

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 700-4C-SFP

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 700-4C-SFP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding and insulating tape winding	No.	0-50
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- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	700
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	800
Winding tolerance between coil	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	750
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400/500
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	4500
Length	mm	5500
Height	mm	2800

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 700-4C-TIG-TI

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 700-4C-TIG-TI

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding and insulating tape winding	No.	0-50
--	-----	------

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	700
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1000
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	750
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.20

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	4500
Length	mm	6500
Height	mm	2800

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 700-4C-SFP-8FP

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 700-4C-SFP-8FP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-50
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- **WORKING AREA FOR FOIL CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	700
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1000
Winding tolerance between coils	max mm	+/-1

- **WORKING AREA FOR WIRE CONDUCTOR WINDINGS**

Type of conductor		Cu
Conductor width	min mm	1
Conductor width	max mm	5
Quantity of wires to be coiled	max No.	8

- **WORKING AREA FOR STRIP CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	5x2
Conductor width	max mm	18x4
Quantity of strips to be coiled	max No.	8

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	750
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6000
Length	mm	6000
Height	mm	2500

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 700-4C-TIG-8FP

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TECHNICAL DATA

Winding machine – Model AVB 700-4C-TIG-8FP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-50
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- **WORKING AREA FOR FOIL CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	700
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1000
Winding tolerance between coils	max mm	+/-1

- **WORKING AREA FOR WIRE CONDUCTOR WINDINGS**

Type of conductor		Cu
Conductor width	min mm	1
Conductor width	max mm	5
Quantity of wires to be coiled	max No.	8

- **WORKING AREA FOR STRIP CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	5x2
Conductor width	max mm	18x4
Quantity of strips to be coiled	max No.	8

- **INSULATING MATERIAL**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	750
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.20

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	5000
Length	mm	5000
Height	mm	2800

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 850-4C-SFP-8FP

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TECHNICAL DATA

Winding machine – Model AVB 850-4C-SFP-8FP

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-50
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- **WORKING AREA FOR FOIL CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	100
Conductor width	max mm	850
Conductor thickness	min mm	0.20
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1000
Winding tolerance between coils	max mm	+/-1

- **WORKING AREA FOR WIRE CONDUCTOR WINDINGS**

Type of conductor		Cu
Conductor width	min mm	1
Conductor width	max mm	5
Quantity of wires to be coiled	max No.	8

- **WORKING AREA FOR STRIP CONDUCTOR WINDINGS**

Type of conductor		Al / Cu
Conductor width	min mm	5x2
Conductor width	max mm	18x4
Quantity of strips to be coiled	max No.	8

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	max mm	870
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.38

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6000
Length	mm	6000
Height	mm	2500

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 1300-1C-E

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 1300-1C-E

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-15
Turns - min/1° for insulating tape winding	No.	0-20
Distance between traction and tailstock	mm	2200

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	400
Conductor width	max mm	1300
Conductor thickness	min mm	0.40
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	410
Insulating material width	max mm	1360
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	500
Conductor coil external diameter	max mm	1000

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	5650
Length	mm	3500
Height	mm	2100

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVB 1300-2C-TIG

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TECHNICAL DATA

Winding machine – Model AVB 1300-2C-TIG

- TRACTION AND TAILSTOCK UNIT

Turns - min/1° for conductor winding	No.	0-15
Turns - min/1° for insulating tape winding	No.	0-20
Distance between traction and tailstock	mm	2200

- WORKING AREA

Type of conductor		Al / Cu
Conductor width	min mm	400
Conductor width	max mm	1300
Conductor thickness	min mm	0.40
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- INSULATING MATERIAL UNWINDER

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	410
Insulating material width	max mm	1360
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	500
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6820
Length	mm	7600
Height	mm	2550

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 1400-1C-TIG

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TECHNICAL DATA

Winding machine – Model AVB 1400-1C-TIG

- TRACTION AND TAILSTOCK UNIT

Turns - min/1° for conductor winding	No.	0-15
Turns - min/1° for insulating tape winding	No.	0-20
Distance between traction and tailstock	mm	2300

- WORKING AREA

Type of conductor		Al / Cu
Conductor width	min mm	400
Conductor width	max mm	1400
Conductor thickness	min mm	0.40
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- INSULATING MATERIAL UNWINDER

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	410
Insulating material width	max mm	1460
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	500
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6820
Length	mm	6000
Height	mm	2550

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 1400-1C-COMBY

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVB 1400-1C-COMBY

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-15
Turns - min/1° for insulating tape winding	No.	0-20
Distance between traction and tailstock	mm	2300

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	400
Conductor width	max mm	1400
Conductor thickness	min mm	0.40
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	410
Insulating material width	max mm	1460
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	500
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6820
Length	mm	6000
Height	mm	2550

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

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AVB 1600-2C-TIG

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TECHNICAL DATA

Winding machine – Model AVB 1600-2C-TIG

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-15
Turns - min/1° for insulating tape winding	No.	0-20
Distance between traction and tailstock	mm	2530

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	400
Conductor width	max mm	1600
Conductor thickness	min mm	0.40
Conductor thickness	max mm	2.00
Coil external diameter including sockets	max mm	1200
Winding tolerance between coils	max mm	+/-1

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	410
Insulating material width	max mm	1660
Insulating material thickness	min mm	0.05
Insulating material thickness	max mm	0.51

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	400/500
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	7120
Length	mm	7600
Height	mm	2550

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

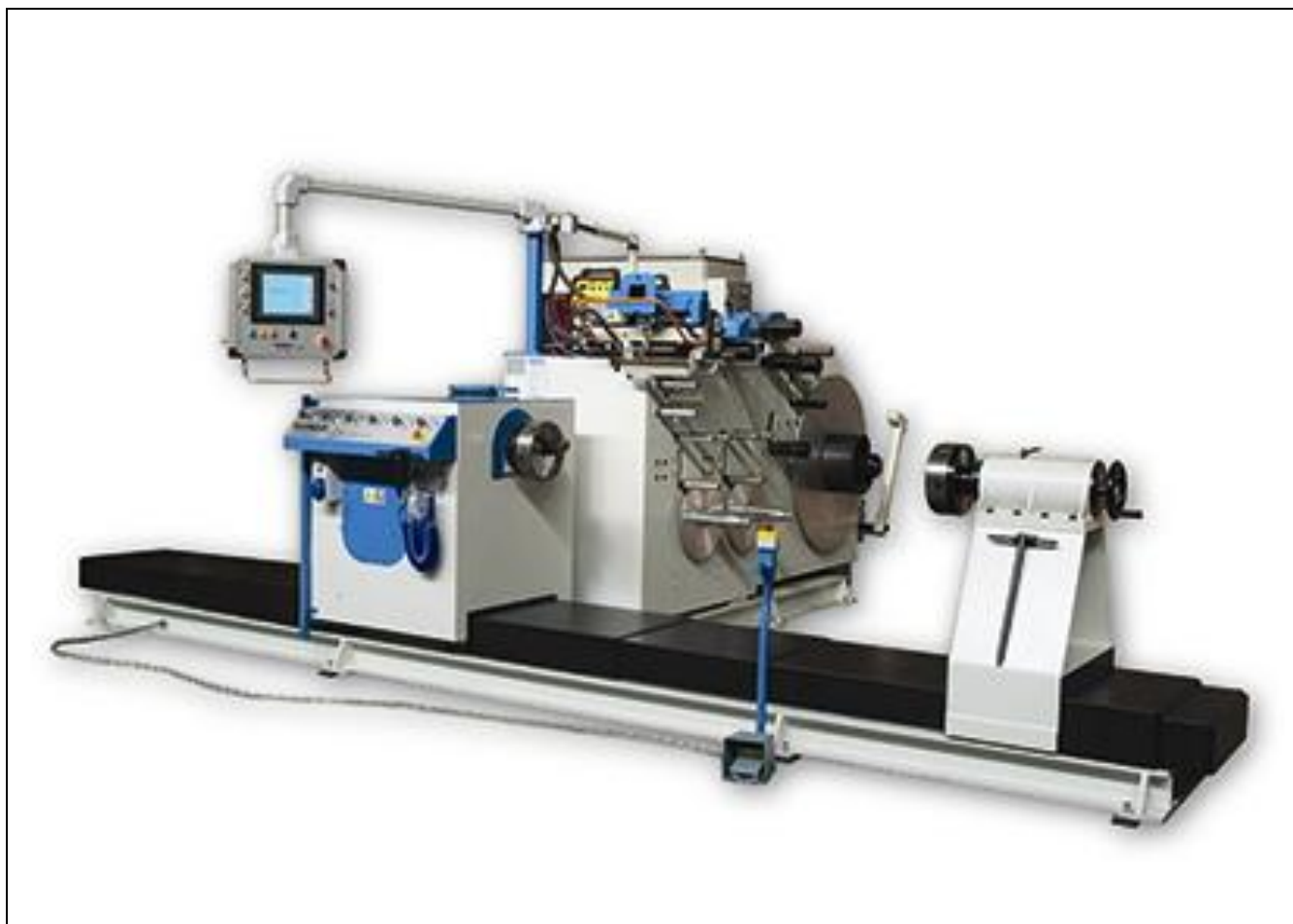
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AVM 150-1C-TIG-1700

**WINDING MACHINE FOR MEDIUM-TENSION MODULAR
WINDINGS**

TECNO-P. TECHNOLOGY

di Pastori Giordano

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TECHNICAL DATA

Winding machine – Model AVM 150-1C-TIG-1700

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-150
Distance between traction and tailstock	min mm	400
Distance between traction and tailstock	max mm	1700

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	20
Conductor width	max mm	150
Conductor thickness	min mm	0.15
Conductor thickness	max mm	1.50
Coil external diameter including sockets	max mm	1300
Winding tolerance between coils	max mm	+/-0.5

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	25
Insulating material width	max mm	160
Insulating material thickness	min mm	0.023
Insulating material thickness	max mm	0.070

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

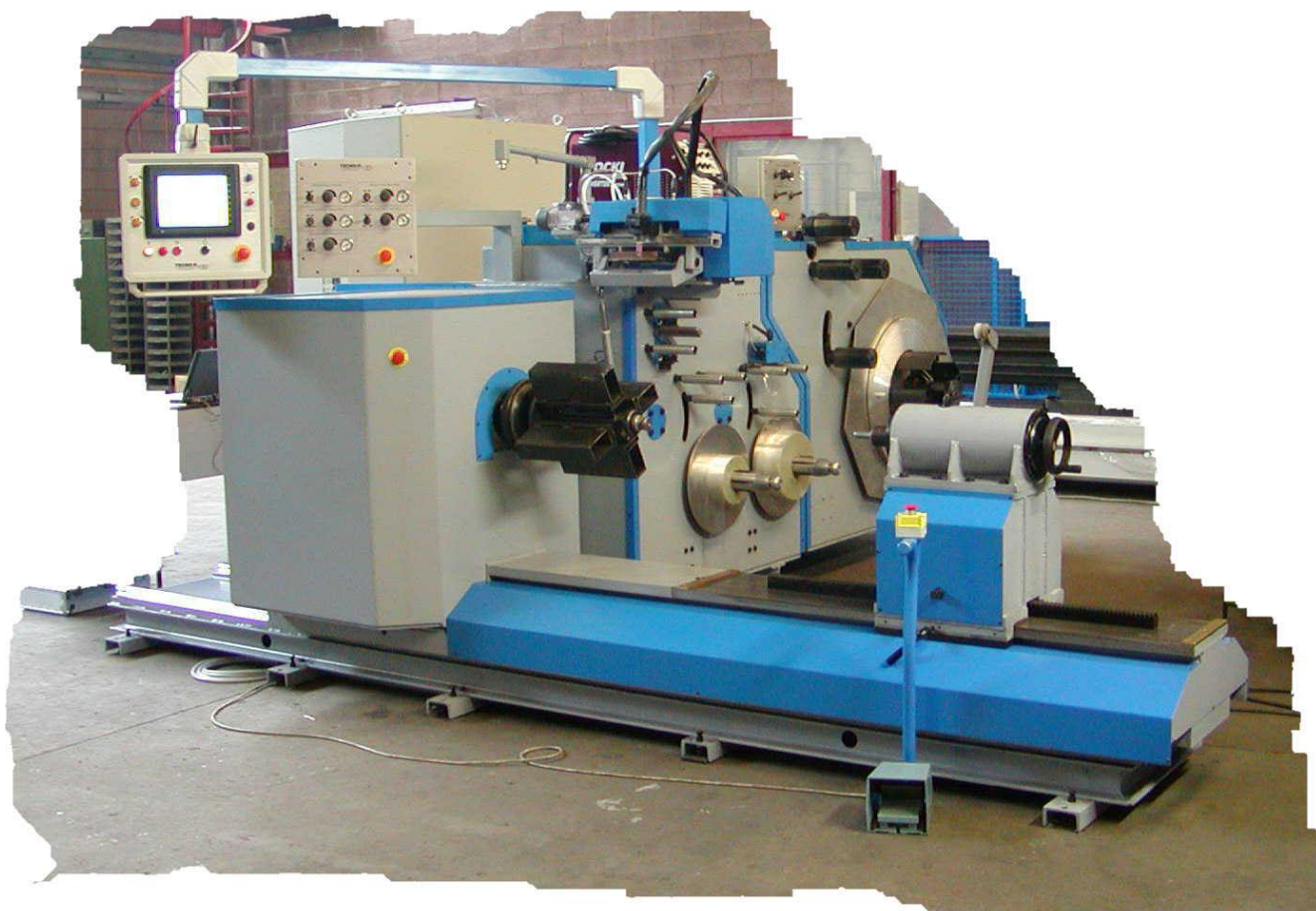
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Length	mm	5000
Height	mm	2200

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



AVM 200-1C-TIG-1700

**WINDING MACHINE FOR MODULAR MEDIUM-TENSION
WINDINGS**

TECNO-P. TECHNOLOGY

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TECHNICAL DATA

Winding machine – Model AVM 200-1C-TIG-1700

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1° for conductor winding	No.	0-150
Distance between traction and tailstock	min mm	400
Distance between traction and tailstock	max mm	1700

- **WORKING AREA**

Type of conductor		Al / Cu
Conductor width	min mm	20
Conductor width	max mm	200
Conductor thickness	min mm	0.15
Conductor thickness	max mm	1.50
Coil external diameter including sockets	max mm	1300
Winding tolerance between coils	max mm	+/-0.5

- **INSULATING MATERIAL UNWINDER**

Insulating material internal diameter	mm	76
Insulating material external diameter	max mm	400
Insulating material width	min mm	25
Insulating material width	max mm	210
Insulating material thickness	min mm	0.023
Insulating material thickness	max mm	0.070

- **CONDUCTOR UNWINDER**

Conductor coil internal diameter	mm	300/400
Conductor coil external diameter	max mm	1000
Conductor alignment run	max mm	+/-50

- **OVERALL DIMENSIONS OF THE MACHINE**

Width	mm	6000
Length	mm	5000
Height	mm	2200

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt

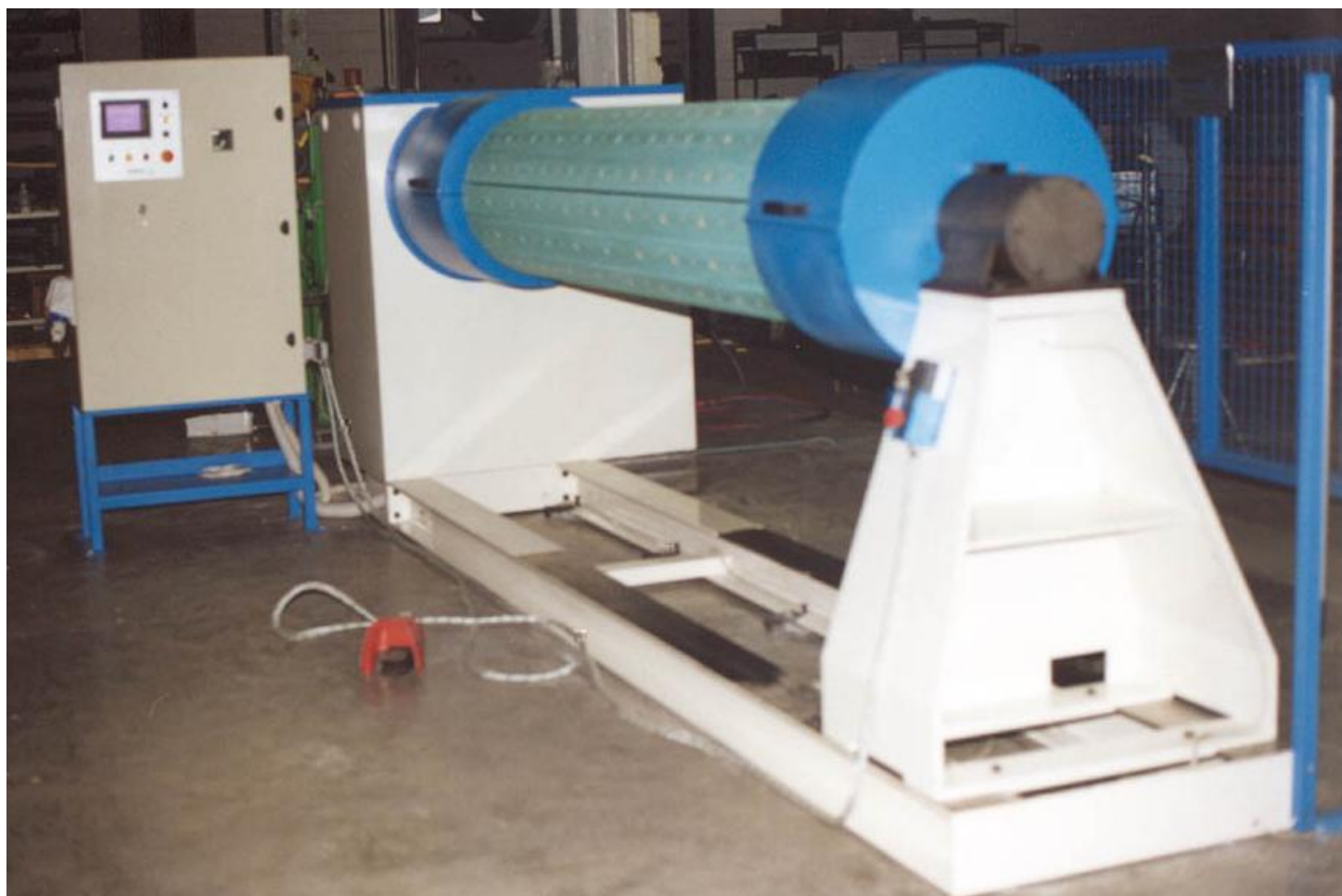
TECNO-P. TECHNOLOGY

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AVP 15-2500

HORIZONTAL WINDING MACHINE FOR POWER TRANSFORMERS

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TECHNICAL DATA

Winding machine – Model AVP 15-2500

- **TRACTION AND TAILSTOCK UNIT**

Turns - min/1°	No.	0-15
Distance between traction and tailstock	min mm	1000
Distance between traction and tailstock	max mm	3200

- **WORKING AREA**

Coil external diameter	max mm	2000
Coil height	max mm	2500

- **OVERALL DIMENSIONS OF THE MACHINE**

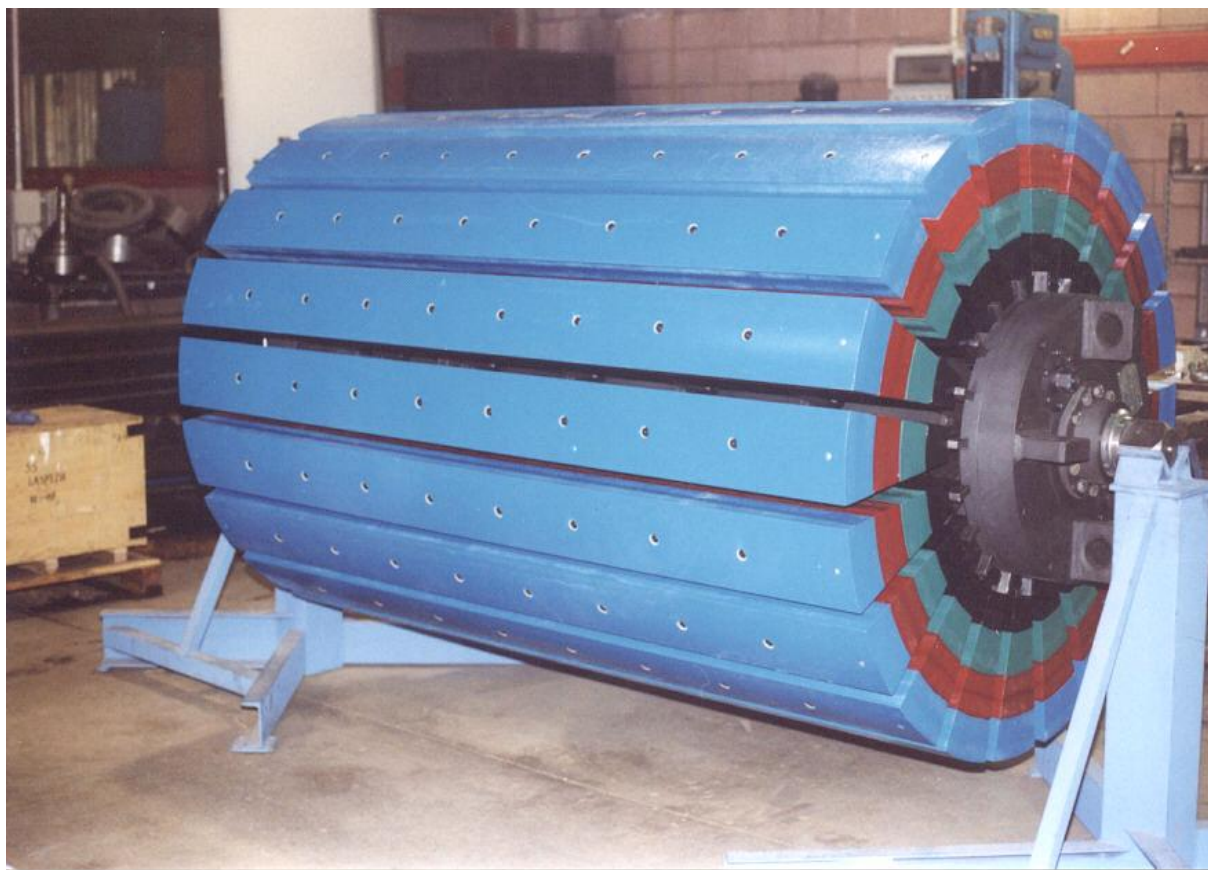
Width	mm	4700
Length	mm	3500
Height	mm	1600

- **PLANT AND ELECTRICAL CONNECTIONS**

Power supply	Three-Phase+N+T	V	400
Network frequency		Hz	50

- **SURFACE FINISHING**

Structure epoxy powder painting	Grey	RAL 9002
Carter epoxy powder painting	Blue	RAL 5015
Special parts painting	Orange	RAL 2004
Mechanical parts burnishing	Black	Matt



EXPANDABLE MANDREL - Heavy version

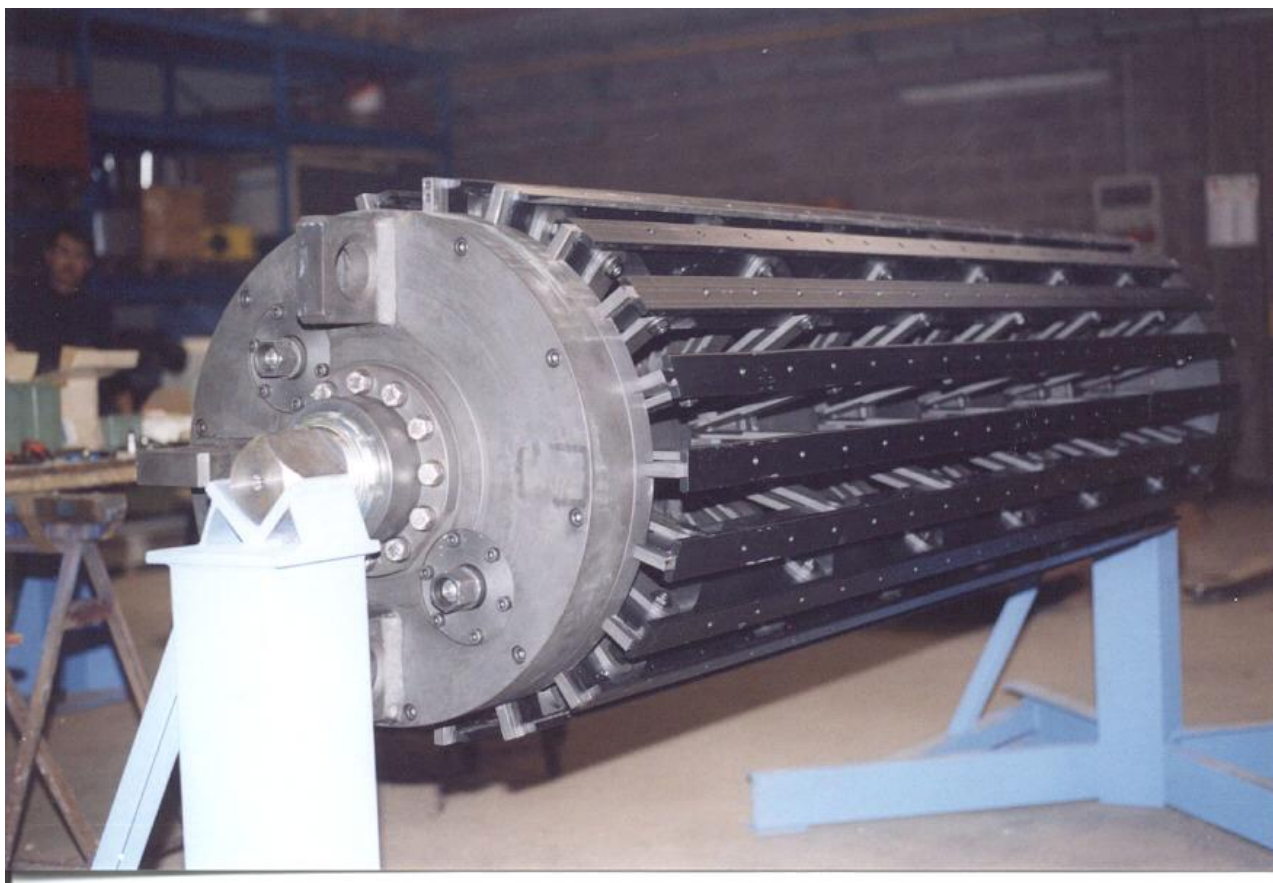
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EXPANDABLE MANDREL - Heavy version

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EXPANDABLE MANDREL - Heavy version

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TECHNICAL DATA

Expandable Mandrel – Model TP 200/420-1600 – Heavy version

Minimum external diameter including staves	mm	200
Maximum external diameter including staves	mm	420
Stave maximum length	mm	1600
Maximum empty space between staves	mm	30
Standard shaft length	mm	2250
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	600

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 300/500-2200 – Heavy version

Minimum external diameter including staves	mm	300
Maximum external diameter including staves	mm	500
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	1000

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 400/800-2200 – Heavy version

Minimum external diameter including staves	mm	400
Maximum external diameter including staves	mm	800
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control	Manual	
Expansion blocking device	Yes	
Dynamometric key	Yes	
Coil withdrawal mechanism	No	
Mandrel maximum weight including staves	kg	1280

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 400/930-2200 – Heavy version

Minimum external diameter including staves	mm	400
Maximum external diameter including staves	mm	930
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	1500

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 500/1000-2200 – Heavy version

Minimum external diameter including staves	mm	500
Maximum external diameter including staves	mm	1000
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	1700

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 600/1370-2200 – Heavy version

Minimum external diameter including staves	mm	600
Maximum external diameter including staves	mm	1370
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	2900

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 800/1500-2200 – Heavy version

Minimum external diameter including staves	mm	800
Maximum external diameter including staves	mm	1500
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	2900

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 800/1700-2200 – Heavy version

Minimum external diameter including staves	mm	800
Maximum external diameter including staves	mm	1700
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	3500

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 300/500-2500 – Heavy version

Minimum external diameter including staves	mm	300
Maximum external diameter including staves	mm	500
Stave maximum length	mm	2500
Maximum empty space between staves	mm	30
Standard shaft length	mm	3150
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	1100

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 400/930-2500 – Heavy version

Minimum external diameter including staves	mm	400
Maximum external diameter including staves	mm	930
Stave maximum length	mm	2500
Maximum empty space between staves	mm	30
Standard shaft length	mm	3150
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	1700

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 600/1370-2500 – Heavy version

Minimum external diameter including staves	mm	600
Maximum external diameter including staves	mm	1370
Stave maximum length	mm	2500
Maximum empty space between staves	mm	30
Standard shaft length	mm	3150
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	3200

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 900/1370-2500 – Heavy version

Minimum external diameter including staves	mm	900
Maximum external diameter including staves	mm	1370
Stave maximum length	mm	2500
Maximum empty space between staves	mm	30
Standard shaft length	mm	3150
Standard shaft fastening dimension	mm	80x80
Open/Close control		Manual
Expansion blocking device		Yes
Dynamometric key		Yes
Coil withdrawal mechanism		No
Mandrel maximum weight including staves	kg	3100

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 180/300-600 – Light version

Minimum external diameter including staves	mm	180
Maximum external diameter including staves	mm	300
Stave maximum length	mm	600
Maximum empty space between staves	mm	30
Standard shaft length	mm	To define
Standard shaft fastening dimension	mm	To define
Open/Close control		Manual
Expansion blocking device		No
Dynamometric key		No
Coil withdrawal mechanism		No

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 200/500-800 – Light version

Minimum external diameter including staves	mm	200
Maximum external diameter including staves	mm	500
Stave maximum length	mm	800
Maximum empty space between staves	mm	30
Standard shaft length	mm	To define
Standard shaft fastening dimension	mm	To define
Open/Close control		Manual
Expansion blocking device		No
Dynamometric key		No
Coil withdrawal mechanism		No

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 220/400-1500 – Light version

Minimum external diameter including staves	mm	220
Maximum external diameter including staves	mm	400
Stave maximum length	mm	1500
Maximum empty space between staves	mm	30
Standard shaft length	mm	To define
Standard shaft fastening dimension	mm	To define
Open/Close control		Manual
Expansion blocking device		No
Dynamometric key		No
Coil withdrawal mechanism		No

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 300/500-2200 – Light version

Minimum external diameter including staves	mm	300
Maximum external diameter including staves	mm	500
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control	Manual	
Expansion blocking device	No	
Dynamometric key	No	
Coil withdrawal mechanism	No	

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 400/930-2200 – Light version

Minimum external diameter including staves	mm	400
Maximum external diameter including staves	mm	930
Stave maximum length	mm	2200
Maximum empty space between staves	mm	30
Standard shaft length	mm	2850
Standard shaft fastening dimension	mm	80x80
Open/Close control	Manual	
Expansion blocking device	No	
Dynamometric key	No	
Coil withdrawal mechanism	No	

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting

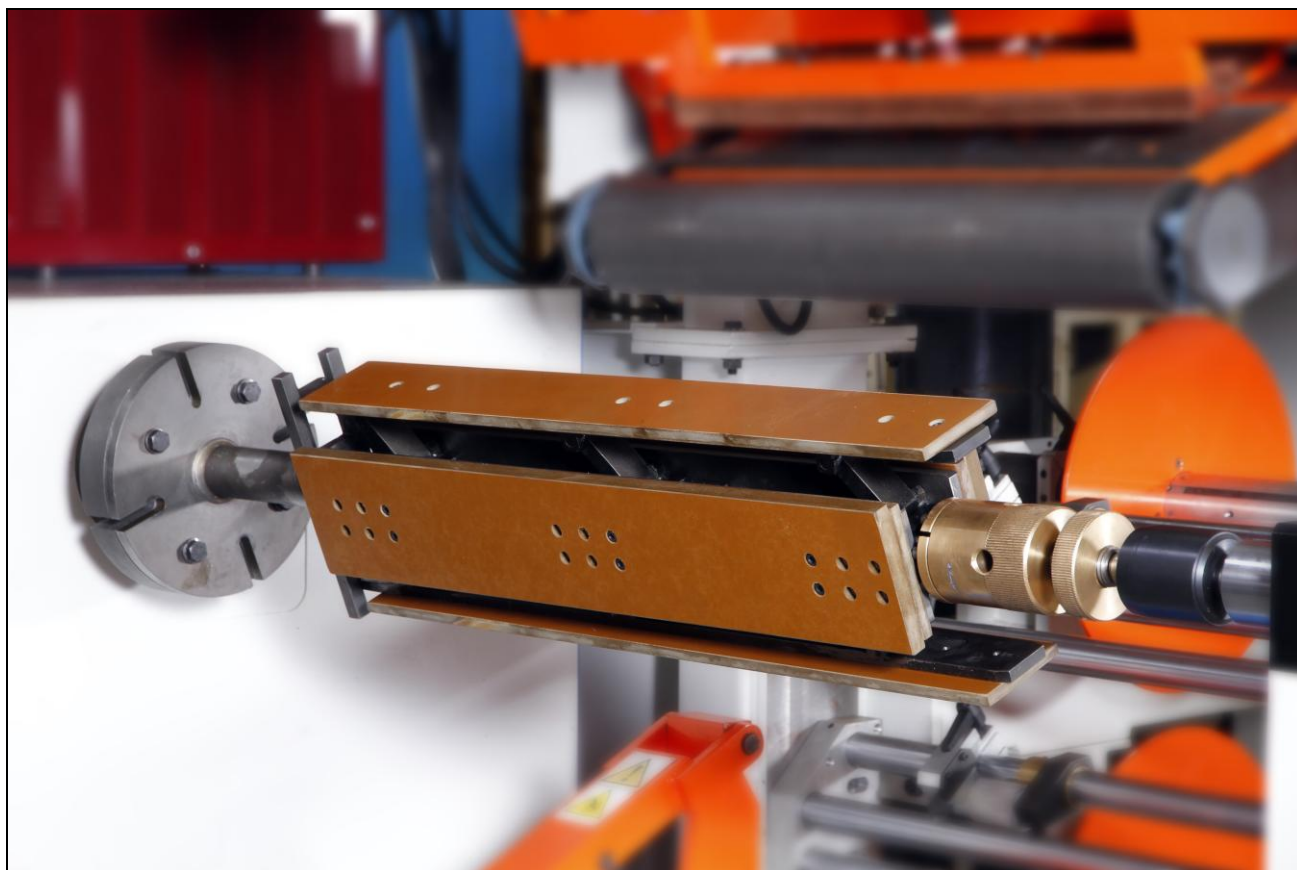
TECHNICAL DATA

Expandable Mandrel – Model TP 400/930-2500 – Light version

Minimum external diameter including staves	mm	400
Maximum external diameter including staves	mm	930
Stave maximum length	mm	2500
Maximum empty space between staves	mm	30
Standard shaft length	mm	3150
Standard shaft fastening dimension	mm	80x80
Open/Close control	Manual	
Expansion blocking device	No	
Dynamometric key	No	
Coil withdrawal mechanism	No	

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	RAL painting



**EXPANDABLE MANDREL - Foil version
Square/Rectangular**

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TECHNICAL DATA

Expandable Mandrel – Model TP 70x70/110x110-400 – Foil version

Minimum external measure including staves	mm	70x70
Maximum external measure including staves	mm	110x110
Stave maximum length	mm	520
Standard shaft length	mm	To define
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	Natural colour

TECHNICAL DATA

Expandable Mandrel – Model TP 80x130/160x320-600 – Foil version

Minimum external measure including staves	mm 80x130
Maximum external measure including staves	mm 160x320
Stave maximum length	mm 725
Standard shaft length	mm To define
Open/Close control	Manual
Expansion blocking device	Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	Natural colour

TECHNICAL DATA

Expandable Mandrel – Model TP 120x120/160x370-700 – Foil version

Minimum external measure including staves	mm 120x120
Maximum external measure including staves	mm 160x370
Stave maximum length	mm 725
Standard shaft length	mm To define
Open/Close control	Manual
Expansion blocking device	Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Wooden staves	Natural colour



EXPANDABLE MANDREL - Foil version

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TECHNICAL DATA

Expandable Mandrel – Model TP 110/220-600 – Foil version

Minimum external diameter including staves	mm	110
Maximum external diameter including staves	mm	220
Stave maximum length	mm	800
Standard shaft length	mm	To define
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Steel staves	RAL painting

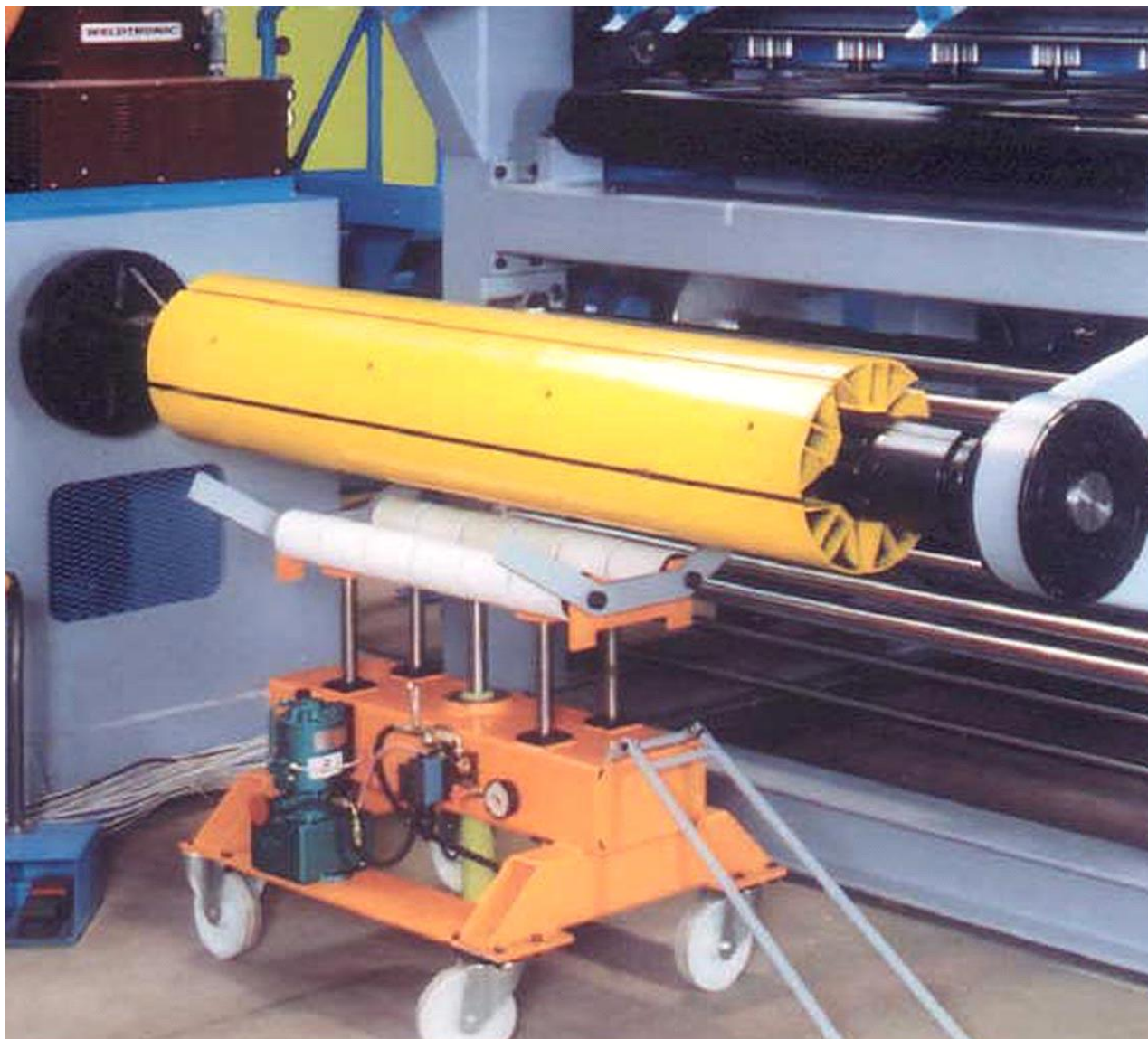
TECHNICAL DATA

Expandable Mandrel – Model TP 160/345-600 – Foil version

Minimum external diameter including staves	mm	160
Maximum external diameter including staves	mm	345
Stave maximum length	mm	800
Standard shaft length	mm	To define
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Steel staves	RAL painting



EXPANDABLE MANDREL - Foil version

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TECHNICAL DATA

Expandable Mandrel – Model TP 145/175-1600 – Foil version

Minimum external diameter including staves	mm	145
Maximum external diameter including staves	mm	175
Stave maximum length	mm	1800
Standard shaft length	mm	2400
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Steel staves	RAL painting

TECHNICAL DATA

Expandable Mandrel – Model TP 160/345-1600 – Foil version

Minimum external diameter including staves	mm	160
Maximum external diameter including staves	mm	345
Stave maximum length	mm	1800
Standard shaft length	mm	2400
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Steel staves	RAL painting

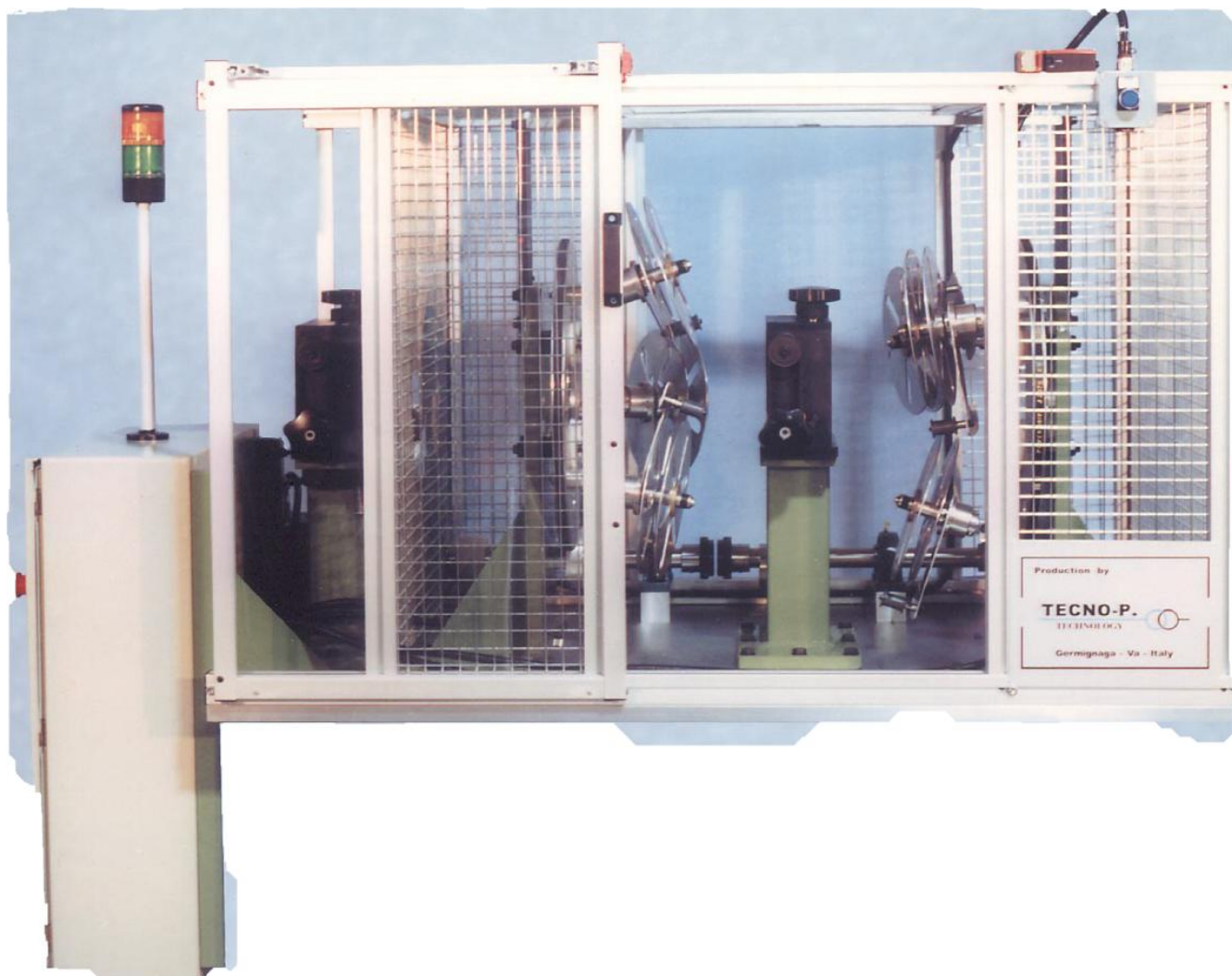
TECHNICAL DATA

Expandable Mandrel – Model TP 200/420-1600 – Foil version

Minimum external diameter including staves	mm	200
Maximum external diameter including staves	mm	420
Stave maximum length	mm	1800
Standard shaft length	mm	2400
Open/Close control		Manual
Expansion blocking device		Yes

SURFACE FINISHING

Mechanical parts	Phosphatizing
Steel staves	RAL painting



SIX SATELLITE UNIVERSAL TAPING MACHINE PREPARED FOR TRACTION GROUP CONFIGURATION

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