

MACHINERY

(1/2009)

(FC) Machine at F.lli CORBELLA SA
(OE) Machine at OEMB SA

1 MACHINING CENTERS, MILLING AND BORING MACHINES

PARPAS ML-100 CNC ECS zero901 (FC)

Table	12,000 x 2,500 mm
X-axis	10,150 mm
Y-axis	2,500 mm
Z-axis (boom)	1,250 mm
V-axis (rotary table shift)	1,500 mm
B-axis (rotary table)	continuous (2,000 x 2,000 mm; 20 t)
Milling head	automatic swivel (144 + 144 pos.)
Tool changing system	80 stations, automatic vertical and horizontal changing capability
Spindle speed	50-4,000 rpm
Spindle power	46 kW
Tool holder	ISO 50 BIG-Plus (compatible with DIN 69871)

LINEA METRO-N CNC Siemens 840D (OE)

Table	630 x 800 mm
Pallet changing system	9 pallets, 2 loading stations
X-axis	1,150 mm
Y-axis	850 mm
Z-axis	910 mm
B-axis (rotary table)	continuous
Spindle	horizontal
Tool changing system	183 stations, automatic
Spindle speed	20-10,000 rpm
Spindle power	46 kW
Tool holder	HSK63 DIN 69893

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MANDELLI 1500 B CNC ECS 2701D (OE)

Table	1,250 x 1,000 mm
Pallet changing system	4 pallets, 1 loading station
X-axis	2,800 mm
Y-axis	2,000 mm
Z-axis	1,400 mm
B-axis (rotary table)	continuous
Milling head	automatic swivel (horizontal/vertical)
Tool changing system	60 stations, automatic
Spindle speed	20-3,000 rpm
Spindle power	32 kW
Tool holder	ISO 50 DIN 69871

MANDELLI/SAMU 1500 B CNC ECS 4801 (OE)

Table	1,250 x 1,000 mm
Pallet changing system	4 pallets, 1 loading station
X-axis	2,800 mm
Y-axis	1,500 mm
Z-axis	1,400 mm
B-axis (rotary table)	continuous
Milling head	automatic swivel (horizontal/vertical)
Tool changing system	72 stations, automatic
Spindle speed	20-3,000 rpm
Spindle power	46 kW
Tool holder	ISO 50 DIN 69871

SAN ROCCO FMC 110/S-MMZ CNC ECS 4801 (OE)

Table	1,300 x 1,100 mm
X-axis	3,100 mm
Y-axis	2,000 mm
Z-axis	2,200 mm
W-axis (boring spindle)	600 mm
B-axis (rotary table)	continuous
Spindle	horizontal
Tool changing system	30 stations, automatic
Spindle speed	20-3,000 rpm
Spindle power	27 kW
Tool holder	ISO 50 DIN 69871

NOVAR SYSTEM-RT CNC ECS 4801 (FC)

Table	1,500 x 1,750 mm
X-axis	3,000 mm
Y-axis	2,000 mm
Z-axis (boom)	1,200 mm
V-axis	1,500 mm
B-axis (rotary table)	continuous (15 t)
Milling head	automatic swivel (360 + 144 pos.)
Tool changing system	40 stations, automatic vertical and horizontal changing capability
Spindle speed	20-4,500 rpm
Spindle power	33 kW
Tool holder	ISO 50 DIN 69871

REMA LEONARD 4 CNC ECS 2701D (OE)

Table	4,400 x 600 mm
Pendulum milling capability	2 x 1,500 x 600 x 600 mm
X-axis	4,000 mm
Y-axis	600 mm
Z-axis	600 mm
Spindle	vertical
Tool changing system	40 stations
Spindle speed	20-8,000 rpm
Spindle power	18.5 kW
Tool holder	ISO 40 DIN 69871

REMA CONTROL RCL5-TS4 ECS zero901 (FC)

Table	5,200 x 600 mm
Pendulum milling capability	2 x 2,000 x 1,000 x 1,000 mm
X-axis	5,000 mm
Y-axis	1,000 mm
Z-axis	1,000 mm
B and V-axis (rotary tables)	2 rotary tables Ø 500 mm, continuous
Milling head (A and C axis)	continuous tilting at any position
Tool changing system	40 stations
Spindle speed	20-6,000 rpm
Spindle power	21 kW
Tool holder	HSK63 DIN 69893

SIGMA VC-600P CNC ECS 2301 (FC)

Table	600 x 400 mm
Pallet changing system	1 pallet, 1 loading station
X-axis	600 mm
Y-axis	450 mm
Z-axis	560 mm
Spindle	vertical
Tool changing system	30 stations
Spindle speed	20-6,000 rpm
Spindle power	18.5 kW
Tool holder	ISO 40 DIN 69871

GUALDONI GV93 CNC ECS 2701 (OE)

Table	800 x 250 mm
X-axis	450 mm
Y-axis	250 mm
Z-axis	500 mm
Spindle	vertical
Tool changing system	12 stations
Spindle speed	100-8,000 rpm
Spindle power	11 kW
Tool holder	ISO 30 DIN 69871

NOVAR KBF 5000 CNC ECS 2301 (FC)

Table	5,000 x 1,000 mm
X-axis	4,500 mm
Y-axis	1,900 mm
Z-axis (boom)	1,100 mm
Milling head	automatic swivel (horizontal/vertical)
Spindle speed	10-3,000 rpm
Spindle power	25 kW
Tool holder	ISO 50 DIN 2080

NOVAR KBF 3000 CNC ECS zero901 (FC)

Table	3,000 x 800 mm
X-axis	2,700 mm
Y-axis	1,400 mm
Z-axis (boom)	1,000 mm
Milling head	2 spindles (horizontal/vertical)
Spindle speed	10-2,500 rpm
Spindle power	25 kW
Tool holder	ISO 50 DIN 2080

OERLIKON FB2 CNC ECS 2101 (FC)

Table	2,000 x 630 mm
X-axis	1,600 mm
Y-axis	910 mm
Z-axis	775 mm
Spindle	vertical
Spindle speed	10-2,000 rpm
Spindle power	33 kW
Tool holder	ISO 50 DIN 2080

2 TURNING AND MILLING CENTRES

MANDELLI SPARK 1600 CNC Siemens 840D (OE)

Table (turning spindle)	1,000 x 1,000 mm
Pallet changing system	7 pallets, 1 loading station
X-axis	1,600 mm
Y-axis	1,400 mm
Z-axis	1,400 mm
B-axis (rotary table)	continuous
Milling head (A-axis)	automatic swivel +90°/-100°
Tool changing system	232 stations
Milling spindle speed	20-8,000 rpm
Milling spindle power	63 kW
Tool holder	HSK100A DIN 69893
Turning table speed	10-600 rpm
Turning table spindle power	73 kW
Max. turning diameter	1,600 mm
Max. workpiece weight	4,000 kg

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LINEA PRIMA - TSL 630 CNC ECS *quattro*901 (OE)

Table	630 x 630 mm
Pallet changing system	11 pallets, 2 loading stations
X-axis	1,300 mm
Y-axis	1,400 mm
Z-axis	1,400 mm
B-axis (rotary table)	continuous
A-axis (tilting table)	-40° - 130°
Tool changing system	233 stations
Milling spindle speed	20-6,000 rpm
Milling spindle power	66 kW
Tool holder	HSK100A DIN 69893
Turning spindle speed	500 rpm
Turning spindle power	64 kW
Max. turning diameter	800 mm

KOMATSU B.T.M. Complex 06YS-A CNC ECS 4801/2 (OE)

Table (turning spindle)	Ø 630 mm
Pallet changing system	6 pallets, 1 loading station
X-axis	700 mm
Y-axis	1,100 mm
Z-axis	800 mm
B-axis (rotary table)	continuous
Milling head (A-axis)	automatic swivel (horizontal/vertical)
Tool changing system	98 stations
Milling spindle speed	20-4,500 rpm
Milling spindle power	18.5 kW
Tool holder	MAS BT50
Turning table speed	10-800 rpm
Turning table spindle power	26 kW
Max. turning diameter	900 mm
Max. workpiece weight	1,000 kg

3 TURNING MACHINES

BOEHRINGER VDF180 CNC Philips B32T (FC)

Centre height	180 mm
Centre distance	1,000 mm
Swing diameter	Ø 250 mm
Three-jaw chuck	Ø 200 mm hydraulic
Spindle bore	Ø 44 x 600 mm
Speed	8-3,500 rpm
Spindle power	36 kW
Tool turret	6 internal and 6 external tools, 1 turret
Max. workpiece weight	1,200 kg

BOEHRINGER VDF315C CNC Philips B32T (FC)

Centre height	315 mm
Centre distance	3,100 mm
Swing diameter	Ø 450 mm
Three-jaw chuck	Ø 315 mm hydraulic
Spindle bore	Ø 80 x 900 mm
Speed	16-2,800 rpm
Spindle power	43 kW
Tool turret	6 internal and 6 external tools, 1 turret
Stationary steady rest	self-centring, hydraulic Ø 70-360 mm
Max. workpiece weight	1,200 kg

PBR 500 CNC ECS 2302 (FC)

Centre height	505 mm
Centre distance	2,000 mm
Swing diameter above bed	Ø 1,000 mm
Swing diameter above slide	Ø 800 mm
Three-jaw chuck	Ø 500 mm hydraulic
Spindle bore	Ø 120 x 900 mm
Speed	10-1,800 rpm
Spindle power	64 kW
Tool turret	6 internal and 8 external tools, 2 turrets
Max. workpiece weight	8,000 kg

TITAN SC27 (vertical) CNC ICEM 402 (OE)

Turning table	∅ 2,500 mm
Swing diameter	∅ 2,700 mm
Workpiece length	1,800 mm
Facing carriage	tool turret 5 positions
Turning carriage	quick-change tooling system Capto
Speed	0 – 113 rpm
Spindle power	60 kW
Max. workpiece weight	15,000 Kg

PONTIGGIA SFE 700 (OE)

Centre height	700 mm
Centre distance	2,000 mm
Swing diameter above bed	∅ 1,390 mm
Swing diameter above slide	∅ 1,020 mm
Speed	8-150 rpm
Spindle power	18.4 kW
Max. workpiece weight	5,000 kg

MERLI CLOVIS 28”(OE)

Centre height	310 mm
Centre distance	5,000 mm
Swing diameter above bed	∅ 640 mm
Swing diameter above slide	∅ 400 mm
Speed	8-1,500 rpm
Spindle power	15 kW
Max. workpiece weight	2,000 kg

4 GRINDING MACHINES

LODI TC100.40 CNC surface grinding machine (OE)

Table	1,000 x 500 mm
X-axis	1,200 mm
Y-axis	450 mm
Z-axis	450 mm
Spindle power	15 kW

5 QUALITY ASSURANCE

Measuring room (OE)

Dimensions	6 x 8 m
Temperature setting	21°C (+/- 2°)
Hard stone table	1,500 x 2,500 mm
Height gauge	Mitutoyo 600 mm

DEA SCIROCCO 3D measuring machine (OE)

Table	2,000 x 1,100 mm
X-axis	1,400 mm
Y-axis	900 mm
Z-axis	700 mm

6 PAINT WORKSHOP

Spray painting line (OE)

Area	220 m ²
Max. workpiece load on chain conveyor	1,500 kg
Loading and unloading zone	
Washing booth	
Spray booth with water spray shield	
Drying oven	

TAIVER spray painting system 18.000P (OE)+(FC)

Airless	
Electrostatic	
High-pressure pump	65:1
No. of systems	3

7 METALWORKING SHOP

Oxy-cutting system TECNIPANT TP30/120 CNC ECS 1400 (FC)

Max. cutting thickness	180 mm
Length	12,000 mm
Width	3,000 mm
No. of cutting torches	3

Sheet metal bending machine SERTOM EMO 30-10 (FC)

Nominal thickness	20 mm
Width	3,000 mm
Smallest roll diameter	∅ 360 mm
Cone rolling device	

Sheet metal bending machine SERTOM ECO 06-20 (FC)

Nominal thickness	6 mm
Width	2,000 mm
Smallest roll diameter	∅ 220 mm
Cone rolling device	
Long section rolling device with various shaped rolls available	

Welding system CLOOS GLC 503 Quinto (FC)

No.	1
Nominal current	500 A

Welding system CLOOS GLC 553 PA-TS Manumag (FC)

No.	2
Nominal current	550 A

Welding system CLOOS GLC 503 PA-TS Manumag (FC)

No.	2
Nominal current	500 A

Welding system CLOOS GLC GLC 403 PA-TS Manumag (FC)

No. 2
Nominal current 400 A

Welding system KEMPPI 4000 PRO MIG 500 (FC)

No. 3
Nominal current 500 A

Plasma cutting system HYPER THERM powermax1250 (FC)

Nominal current 80 A
Max. cutting thickness (steel) 20 mm

Punching machine PEDDINGHAUS Forax 100 (FC)

Punching force 1,000 kN

Punching machine PEDDINGHAUS 210/13 (FC)

Punching force 500 kN