



Procedures | Machines | Specifications



MACHINERY
AND TEST EQUIMENTS



JASIL – J. ANTÔNIO DA SILVA

JASIL is a metal-mechanical company founded in 1948, now on its third generation. Its main production is on parts and accessories for motorcycles, scooters and machining parts for any sector.

Strict management and control enable JASIL to offer competitive prices. JASIL has modern facilities, high equipment and cutting-edge technology.

Modern equipment and permanent investment allow the production of highly complex and precise parts.

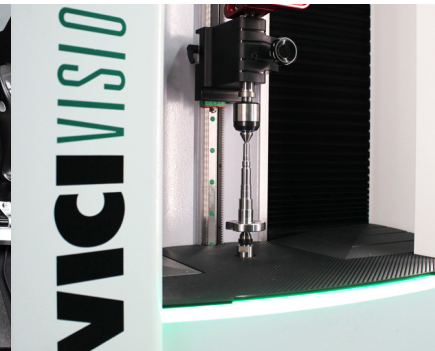
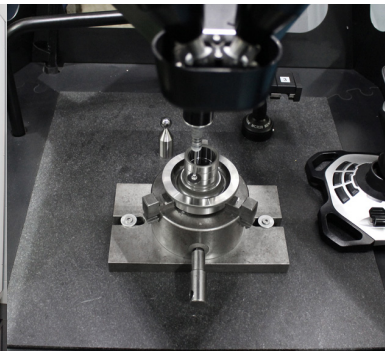
The company technological capacities and know-how have been recognized by the market for many years now. JASIL is certified by ISO 9001 since 2010 and is currently implementing IATF requirements.

MAIN CONTROL / INSPECTION AND TEST EQUIPMENTS	Number of machines
CMM MEASURING MACHINE – MIRACLE	1
PROFILE PROJECTOR HELIOS 350.V	1
PROFILE PROJECTOR PJ – A 3000	1
VICIVISION MTL500 ERGON	1
VICIVISION MTL M2	1
VICIVISION M618 TECHNO	4
RENISHAW EQUATOR EQ 300	4
RENISHAW EQUATOR EQ 500	2
ABERLINK EXTREME	1
DUROMETER – HOYTOM	1
SURFACE ROUGHNESS MEASUREMENT	2
THICKNESS MEASUREMENT – ELCOMETER	1
TESA – HITE MAGNA 300	3

CONTROL & INSPECTION

The CNC measuring machine and 3D scanning are made with high performance granite, the 3 axes have same characteristic in temperature and rigidity. Transmission system uses high-power DC servo motor and new double level tape reducer to ensure rapid and accurate axes movement. Good anti-aging out shape ability to assure the stability of accuracy up to 5 microns.

The VICI VISION MTL 500 Ergon is a optical measuring machine designed for the measurement cylindrical elements. It permits the precision and objective quality control directly in the production CNC machining centers. The presence of step-master, allows instant and automatic feedback of the taken measurements.



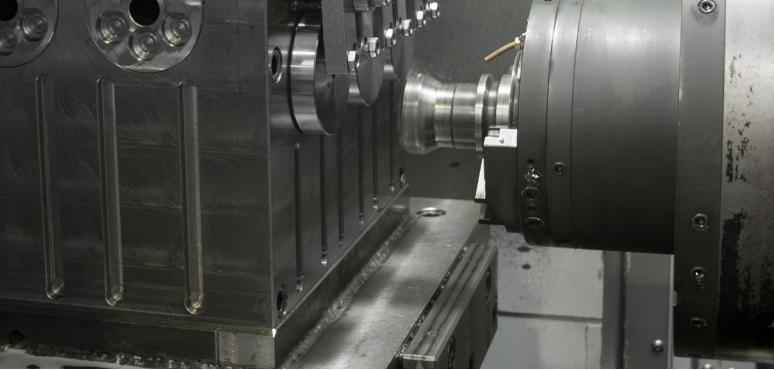
FORGING MACHINERY

Forging allows an efficient use of raw materials and minimises waste, improving mechanical properties. JASIL is currently forging steel, aluminum and brass, as well as aluminum heat treatment, are done in house.



JASIL NUMBER	PRESS FOR HOT AND COLD FORGING	FORCE
4	Press for hot – Selva	250 Tons
5	Press for hot – Berremberg RSPP 200/400	400 Tons
6	Press for hot – Weingarten PPZ-280	650 Tons
7	Press – Weingarten	100 Tons
8	Press for hot – Berremberg RSPP	400 Tons
9	Press – Terrasse Thiers	15 Tons
10	Balancé – CP50	25 Tons
16	Balancé – Raskin	45 Tons
	Cavani & Goldoni	500 Tons

JASIL NUMBER	HEATING SYSTEMS FOR FORGING AND TREATMENT FORGING
206	Repress machine – RH8
207	Repress machine – RH8
208	Repress machine – RH8
209	Electrical oven (50cc) – M.J. Amaral
210	Electrical oven (125Oc) – M.J. Amaral
211	Repress machine – RH8
212	Electrical oven VF3
215	Electrical oven ELTI



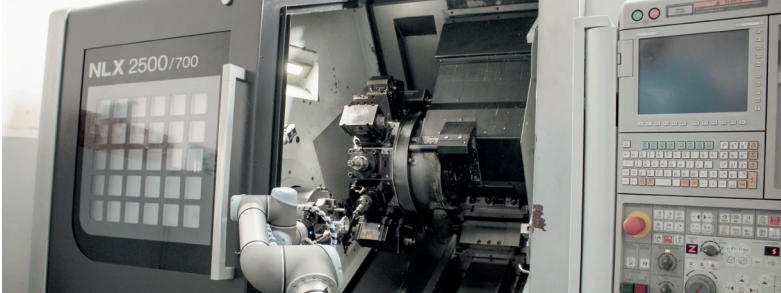
MACHINING MACHINERY

JASIL has machining centres with 3 or 4 axis, with or without a pallet, which enable a great production versatility. Vertical and horizontal machining centres allow the optimization of production when complex parts are being machined.

JASIL NUMBER	MACHINING CENTERS	WITH PALLET	NUMBER OF AXES	TABLE DIMENSIONS	MACHINING DIMENSIONS	MOTOR POWER	MAXIMUM PART WEIGHT
28	Machining Center – Mori Seiki NH5000	YES	4	500x500	(630, 600, 670)	22/18.5 kw	500 kg
29	Machining Center – MV 40B	YES	3	900x380	(900, 500, 600)	11 kw	600 kg
38	Machining Center – CV 500A	YES	3	750x550	(510, 510, 510)	7.5/5.5 kw	350 kg
39	Machining Center – Daewoo NM510	NO	4	1200x500	(1020, 510, 625)	11 kw	800 kg
40	Machining Center – Mori Seiki TV 300	YES	3	500x300	(420, 300, 250)	3.7/2.2 kw	150 kg
44	Machining Center – Daewoo NM410	NO	4	920x430	(760, 410, 510)	11 kw	600 kg
45	Machining Center – Daewoo NM410	NO	3	920x430	(760, 410, 510)	11 kw	600 kg
48	Machining Center – Daewoo Mynx 550	NO	4	1400x500	(1270, 510, 625)	11 kw	600 kg
49	Machining Center – Doosan DNM500II	NO	4	1200x540	(1020, 540, 510)	18.5kw	800 kg
52	Machining Center – Doosan DNM650II	NO	4	1300x670	(1270, 670, 625)	18.5kw	800 kg
53	Machining Center – Doosan DNM650II	NO	4	1300x670	(1270, 670, 625)	18.5kw	800 kg
77	Machining Center – Doosan VC 630/5AX	NO	5	650x765	(650, 765, 520)	22 kw	500 kg

TURNING MACHINERY

CNC lathes with or without an automatic bar feeder with up to 8 working axis, allow the production of highly complex parts.



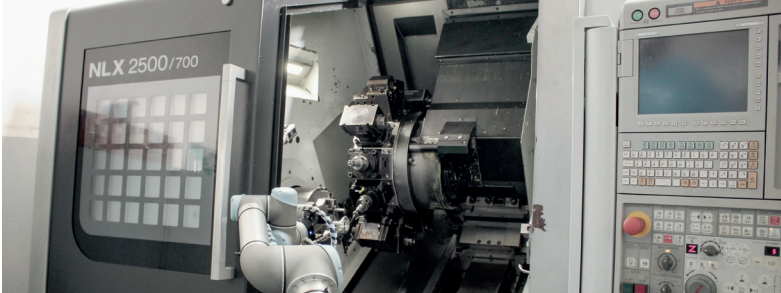
JASIL NUMBER	CNC LATHES	AUTOMATIC BAR FEEDER	BAR WORKING DIAMETER	MAX TURNING DIAMETER	MAX LENGH MACHINING
20	CNC Lathe – Mori NLX 2500/700 SY	NO	78.74 mm	459.74 mm	726.44 mm
21	CNC Lathe – Mori NLX 2500/700 SY	NO	78.74 mm	459.74 mm	726.44 mm
55	CNC Lathe – Mori NLX 2500/700 SY	NO	78.74 mm	459.74 mm	726.44 mm
99	CNC Lathe – Mori NLX 2500/700 SY	NO	78.74 mm	459.74 mm	726.44 mm
22	CNC Lathe – Mori Seiki SL-25A	NO	-	220 mm	400 mm
23	CNC Lathe – Mori Seiki SL-153	GANTRY	130 mm	200 mm	400 mm
24	CNC Lathe – Mori Seiki SL-25 B500	NO	-	220 mm	400 mm
25	CNC Lathe – Mori Seiki AL2	NO	-	190 mm	400 mm
26	CNC Lathe – Mori Seiki SL15	NO	-	150 mm	400 mm
27	CNC Lathe – Mori Seiki AL 22 BT	NO	-	190 mm	400 mm
32	CNC Lathe – Mori Seiki SL-15	NO	-	150 mm	400 mm



JASIL NUMBER	CNC LATHES	AUTOMATIC BAR FEEDER	BAR WORKING DIAMETER	MAX TURNING DIAMETER	MAX LENGH MACHINING
35	CNC Lathe – Mori Seiki AL 22 BTM	YES	40 mm	190 mm	400 mm
57	CNC Lathe – Mori Seiki ZT 1500 Y	NO	–	190 mm	450 mm
58	CNC Lathe – Mori Seiki MT2000	NO	–	550 mm	300 mm
56	CNC Lathe – Mori Seiki ZT 1500 YB	NO	–	190 mm	700 mm
57	CNC Lathe – Mori Seiki ZT 1500 Y	NO	–	190 mm	700 mm
30	CNC Lathe – Sprint 42	YES	42 mm	42 mm	175 mm
31	CNC Lathe – Gildmeister – GD32	YES	36 mm	36 mm	315 mm
33	CNC Lathe – Gildmeister – GLD20	YES	20 mm	20 mm	159 mm
34	CNC Lathe – Magna 36	YES	36 mm	36 mm	65 mm
36	CNC Lathe – Star RNC 16	YES	16 mm	16 mm	130 mm
37	CNC Lathe – Star RNC 16	YES	16 mm	16 mm	130 mm

TURNING MACHINERY

CNC lathes with or without an automatic bar feeder with up to 8 working axis, allow the production of highly complex parts.



JASIL NUMBER	CNC LATHES	AUTOMATIC BAR FEEDER	BAR WORKING DIAMETER	MAX TURNING DIAMETER	MAX LENGH MACHINING
79	CNC Lathe – DOOSAN LYNX 2100B	NO	-	210 mm	
791	CNC Lathe – DOOSAN LYNX 2100B	NO	-	210 mm	
792	CNC Lathe – DOOSAN LYNX 2100B	NO	-	210 mm	
799	CNC Lathe – DOOSAN LYNX 2100B	NO	-	210 mm	
793	CNC Lathe – DOOSAN LYNX 2100LYB	NO	-	210 mm	
794	CNC Lathe – DOOSAN LYNX 2100MB	NO	-	210 mm	



JASIL NUMBER	CNC LATHES	AUTOMATIC BAR FEEDER	BAR WORKING DIAMETER	MAX TURNING DIAMETER	MAX LENGH MACHINING
46	CNC Lathe – Star RNC 16	YES	16 mm	16 mm	130 mm
47	CNC Lathe – Puma TT 2500 SY	YES	76 mm	400 mm	700 mm
54	CNC Lathe – Sprint 32 8 DMG Mori	YES	32 mm	32 mm	300 mm
41	CNC Lathe – Sprint 32 8 DMG Mori	YES	32 mm	32 mm	300 mm
42	Conventional Lathe – Unamuno TA16	YES	16 mm	16 mm	40 mm
43	Conventional Lathe – Unamuno TA25	YES	25 mm	25 mm	40 mm

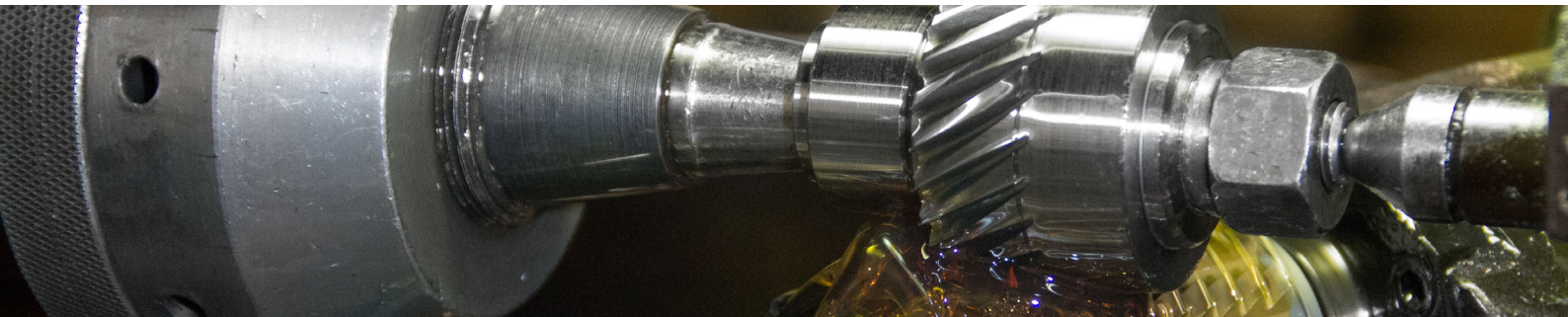
GEAR MILLING MACHINERY

On its gear milling workshop, JASIL has equipment suitable for all its manufacturing needs.

Straight-teeth or helicoidal-teeth gears can be produced up to module 3.

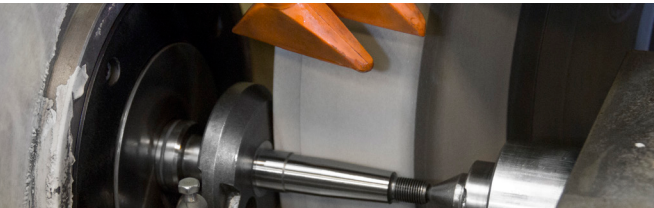
The equipment available enables the grinding of gearing by the shaving process.

JASIL NUMBER	GEAR MILLING MACHINES UP TO MODULE 3 (M3)
60	Gear Milling – Koepfer 153A
61	Gear Milling – Koepfer 172
62	Gear Milling – Koepfer 150
63	Gear Milling – Koepfer 150
64	Vertical Gear Milling – Nestor MT
65	Vertical Gear Milling – Nestor MT 2C
66	Gear Milling – Koepfer 150
68	Gear Milling – Barber Colman 6 -10
69	Gear Milling – Barber Colman 6 -10
70	Vertical Gear Milling – Nestor
72	Gear Grinding – Hurth ZSA220



GRINDING MACHINERY

JASIL is equipped for flat, cylindrical and conic surface grinding, as well as inner and outer holes, centerless grinding and camshaft grinding, allowing shafts, camshafts, crankshafts and other precise parts production.



JASIL NUMBER	GRINDING MACHINES	TYPE OF GRINDING
17	Grinding Machine – SCHAUDT	Camshaft
80	Grinding Machine Cil. – 80 GER RH-L-450	Outside cilindrical
81	Grinding Machine Cil. – GER C800 CNC	Outside cilindrical
82	Grinding Machine Cil. – GER C800 CNC	Outside cilindrical
83	Grinding Machine flat – Kent KGS – 63SD	Flat grinding table 800x600 mm
85	Grinding Machine Cil. – Jones & Shipman	Outside cilindrical
86	Grinding Machine inside – RIL600 CNC	Inside cilindrical
87	Grinding Machine inside – GER CL45 CNC	Inside cilindrical
88	Grinding Machine inside – Hidro Precis Nova /150	Inside cilindrical
89	Grinding Machine inside – Hidro Precis Nova /150	Inside cilindrical
90	Grinding Machine – Estarta	Centerless grinding
91	Grinding Machine flat – SAS	Flat grinding table 800x600 mm
92	Grinding Machine – MSO	Outside cilindrical
93	Grinding Machine – RC10 2C CNC	Outside cilindrical

POLISHING MACHINERY

The MBC-1805 Precision Honing Machine is to be used for finishing bores in small workpieces. In finishing bores, this machine can achieve any or all of the following results:

- fast stock removal;
- consistent final size;
- high degree of cylindricity;
- fine surface finish;

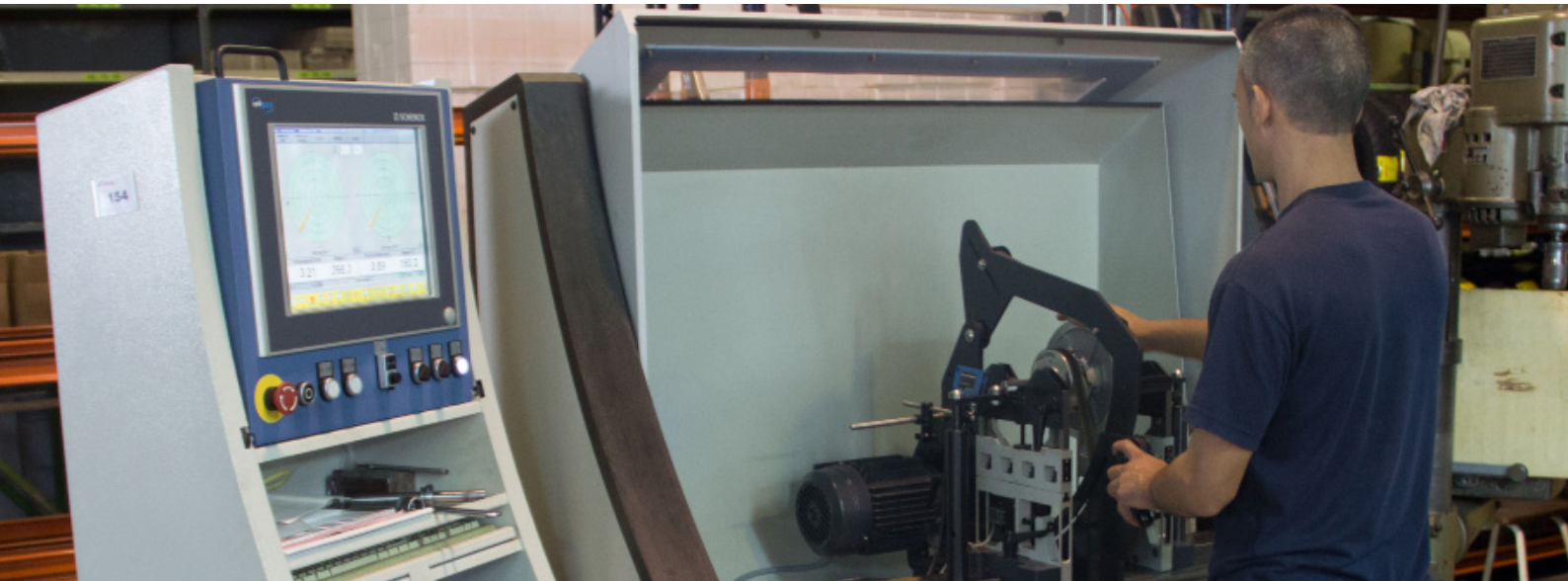
JASIL NUMBER	POLISHING MACHINES	TYPE OF POLISHING
110	Polishing machine – Sunnen MBC 1805-G	Inner hole polishing
111	Polishing machine – Sunnen MBC 1805-F	Inner hole polishing
112	Polishing machine – JASIL	Inner hole polishing



DINAMIC BALANCE

JASIL NUMBER	DINAMIC BALANCE MACHINE
154	Balance SCHENK

The Pasio 50 enables accurate balancing of a wide range of rotors. Cylindrical rotors with their own shaft journals as well as disc type rotors with intermediate shafts can be balanced simply and accurately. The rotor can weigh up to 50 kg, with a diameter up to 600 mm and a length up to 1100 mm.



STAMPING & MARKING

JASIL has tampograph and laser machines, witch allow a great versatility in this field. Having this workshop we are able to make any mark in any product and allow to customize any mark, quickly decreasing significantly the time spent.

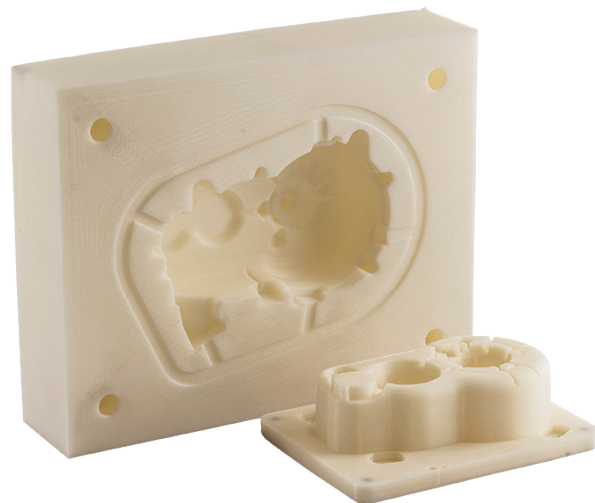
JASIL NUMBER	POLISHING MACHINES	TYPE OF POLISHING
151	Laser – Marker	360° Laser marking
160	Morlock TAMPONDRUCK	Tampographie
161	Pressor tampon PT150	Tampographie
158	Laser Gravotech Fiber 3D Lens	Laser marking
229	DATAMARK Fiberlaser FL 2.0	Laser marking



PROTOTYPE 3D PRINTING MACHINE

MACHINE 3D – DIMENSION ELITE

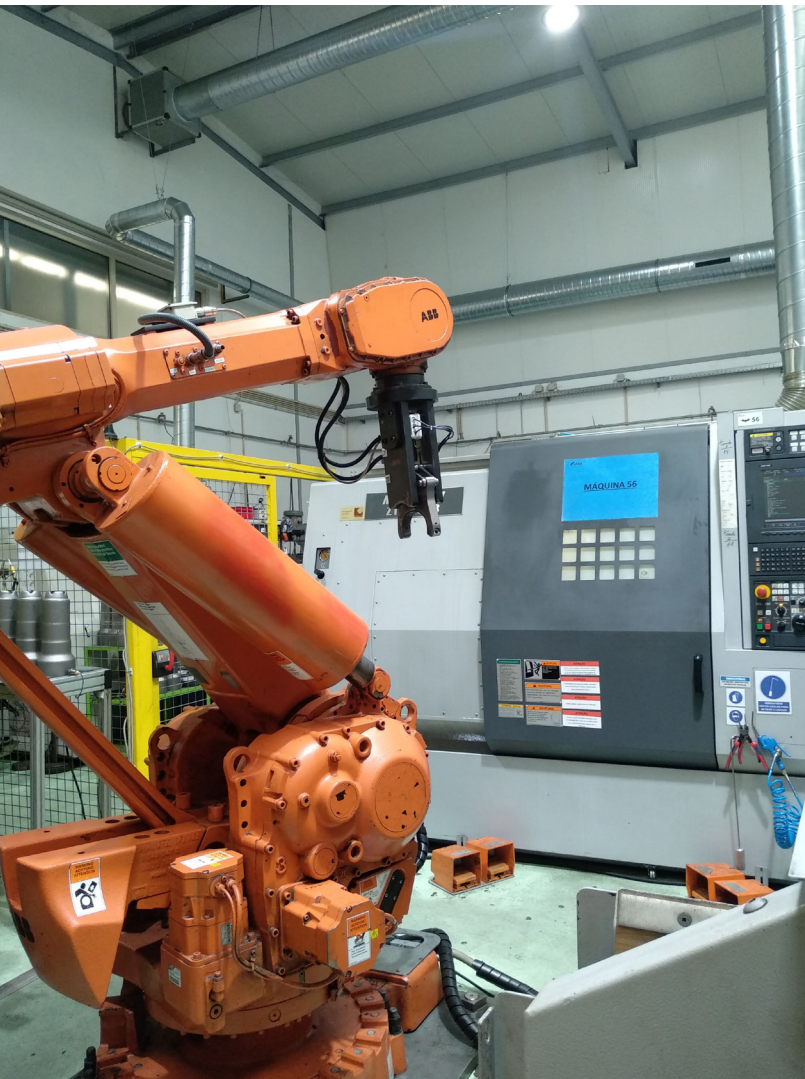
The Dimension Elite 3D Printer features the finest resolution of any Stratasys Design Series Performance 3D Printer. Driven by Fused Deposition Modeling (FDM) Technology, it prints in nine colours of real ABS plus thermoplastic.



CUTTER MACHINES

JASIL NUMBER	CUTTER MACHINES	CUTTER MAX DIAMETER
1	STARTRITE H25 OA-1	270 mm
3	FORTE SBA 240	270 mm
12	FORTE DANOBAT	18 mm
18	GUILLOTINE - GEKA	200 mm
219	COSEN SAWS - G320	325 mm





ROBOTIZATION

JASIL NUMBER	ABB ROBOTS	FORCE
ROBOT 260	Robo – UNIVERSAL ROBOT 1	
ROBOT 261	Robo – UNIVERSAL ROBOT 2	
ROBOT 262	Robo – UNIVERSAL ROBOT 3	
ROBOT 265	Robo – FANUC ARC MATE 100i	
ROBOT 266	Robo – ABB IRB 6400 R	150Kg
ROBOT 267	Robo – ABB IRB 6400 R	150Kg
ROBOT 268	Robo – ABB IRB 6400/2.8	150Kg

OTHER MACHINERY

JASIL NUMBER	SLOTING MACHINES
137	SLOTING MACHINE- VARINELLI BVM-600
138	SLOTING MACHINE- FROMAG VARIO28
152	SLOTING MACHINE

JASIL NUMBER	DRILL MACHINES	TYPE
148	LANBI	LONG HOLE DRILL

JASIL NUMBER	HIDRAULIC PRESS	FORCE
130	HYDRAULIC PRESS- JASIL	5 TONS
131	HYDRAULIC PRESS - JASIL	5 TONS
132	HYDRAULIC PRESS - JASIL	5 TONS
135	LIZUAN EV-25X600	10 TONS

JASIL NUMBER	WASHING MACHINES	CUTTER MAX DIAMETER
150	WASHING MACHINE - BINITRON	WATER SOLUTION
155	WASHING MACHINE	WATER SOLUTION
156	WASHING MACHINE - FISA	WATER SOLUTION
	JET 100 SAFETY KLEEN	WATER SOLUTION
	SK-150 ULTRASONIC SAFETY KLEEN	WATER SOLUTION

JASIL NUMBER	PACKAGING MACHINES
301	PACKAGING MACHINE - SKI70-50
302	PACKAGING/CUT MACHINE - FUST XMPR 650

JASIL NUMBER	EDM (ELECTRIC DISCHARGE MACHINING)	DIMENSION TABLE
149	CHMER CD-50NZ	500x350
	NEU.AR	500x350

JASIL NUMBER	SURFACE TREATMENT PROCESS	TYPE
14	NICEM - VIB 350 WLCONIEX	ABRASIVE
15	NORBLAST S9-S12-CONIEX	SAND BLAST
13	COGEIM (TG1-2995)	SAND BLAST
50	VIBROMAK VKVE150	ABRASIVE
51	VIBROMAK VKVE150	ABRASIVE

JASIL NUMBER	CONVENTIONAL LATHE AND MILLING MACHINES
117	CONVENTIONAL MILLING - LAGUN
118	CONVENTIONAL MILLING - MISAL CERVINIA 2RN
119	CONVENTIONAL MILLING - BSV
120	CONVENTIONAL MILLING - KOVOPOL FHJ-9
121	CONVENT. MILLING - BRIDGEPORT SERIE I 2HP
122	CONVENTIONAL MILLING- EMCO FB-2
200	CONVENTIONAL LATHE - GRAZIANO SAG12
201	CONVENTIONAL LATHE - GRAZIANO SAG12
202	CONVENTIONAL LATHE - TARNOW TUJ-50
204	CONVENTIONAL LATHE - JATOR 175.36
205	CONVENTIONAL LATHE - GRAZIANO SAG12
251	CONVENTIONAL LATHE - HARRISON M250



ADDRESS: Parque Industrial de Adaúfe, Lote i 6
4710 - 571 Adaúfe, BRAGA - PORTUGAL