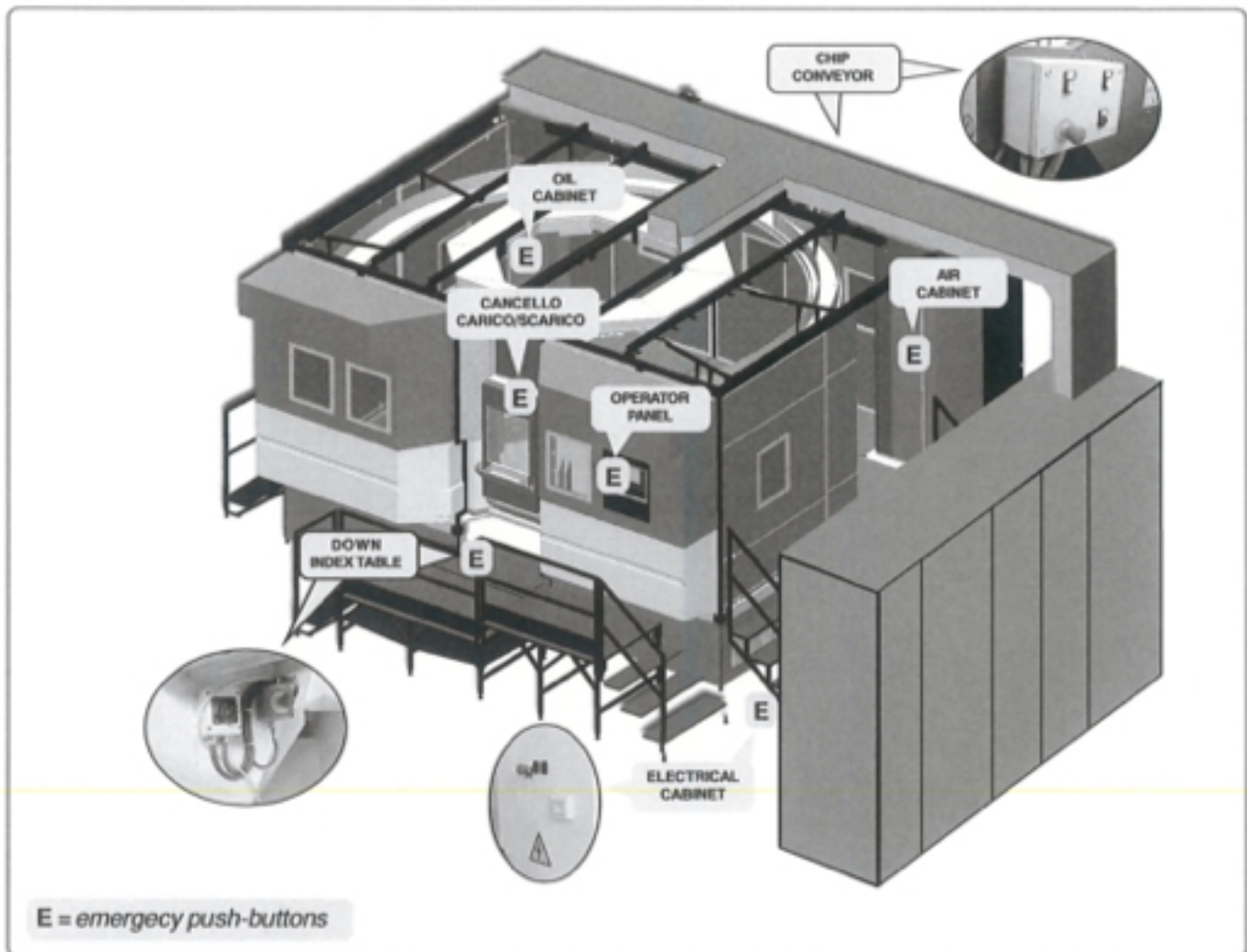


EMERGENCY STOP CONTROLS

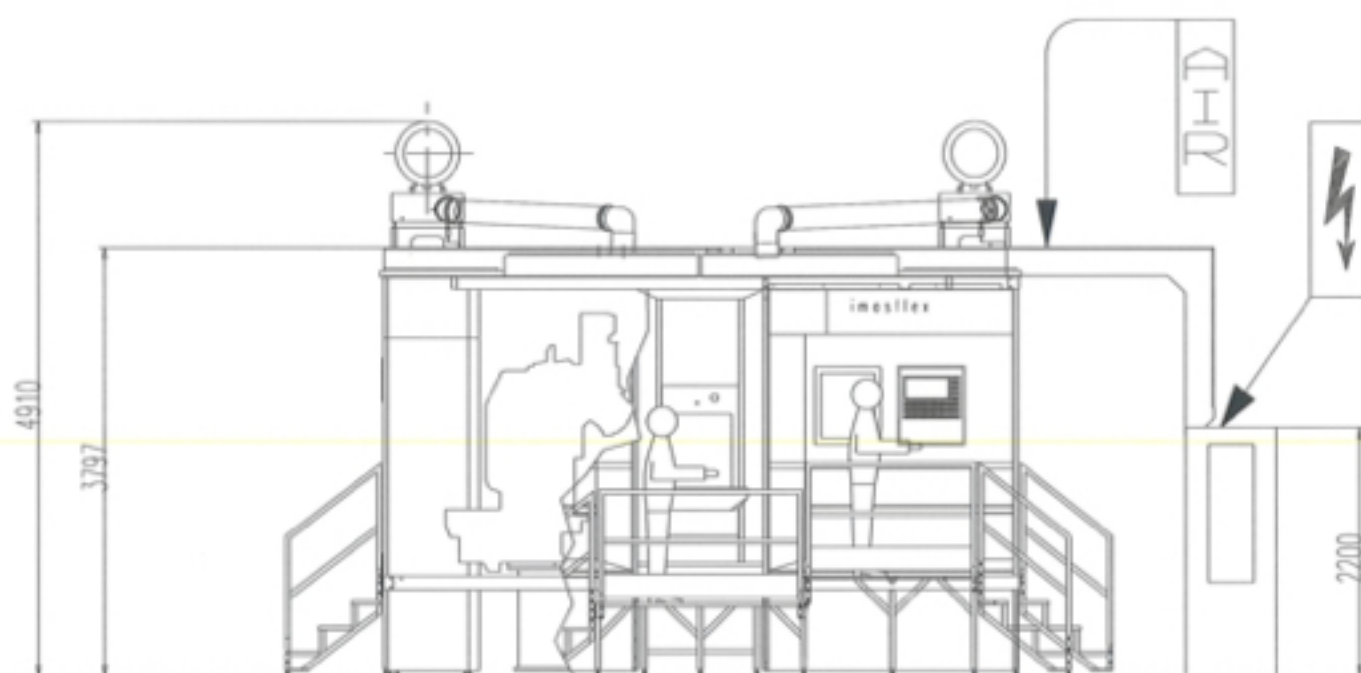


The picture shows how are located the emergency push-buttons on the machine.

HOW IS IT	FUNCTIONS
	to lock instantaneously the movement of all machine devices. WARNING!! before start again the machining cycle, check that all modules and their devices could go on without causing any damages.

INSTALLATION AREA AND MACHINE DIMENSIONS

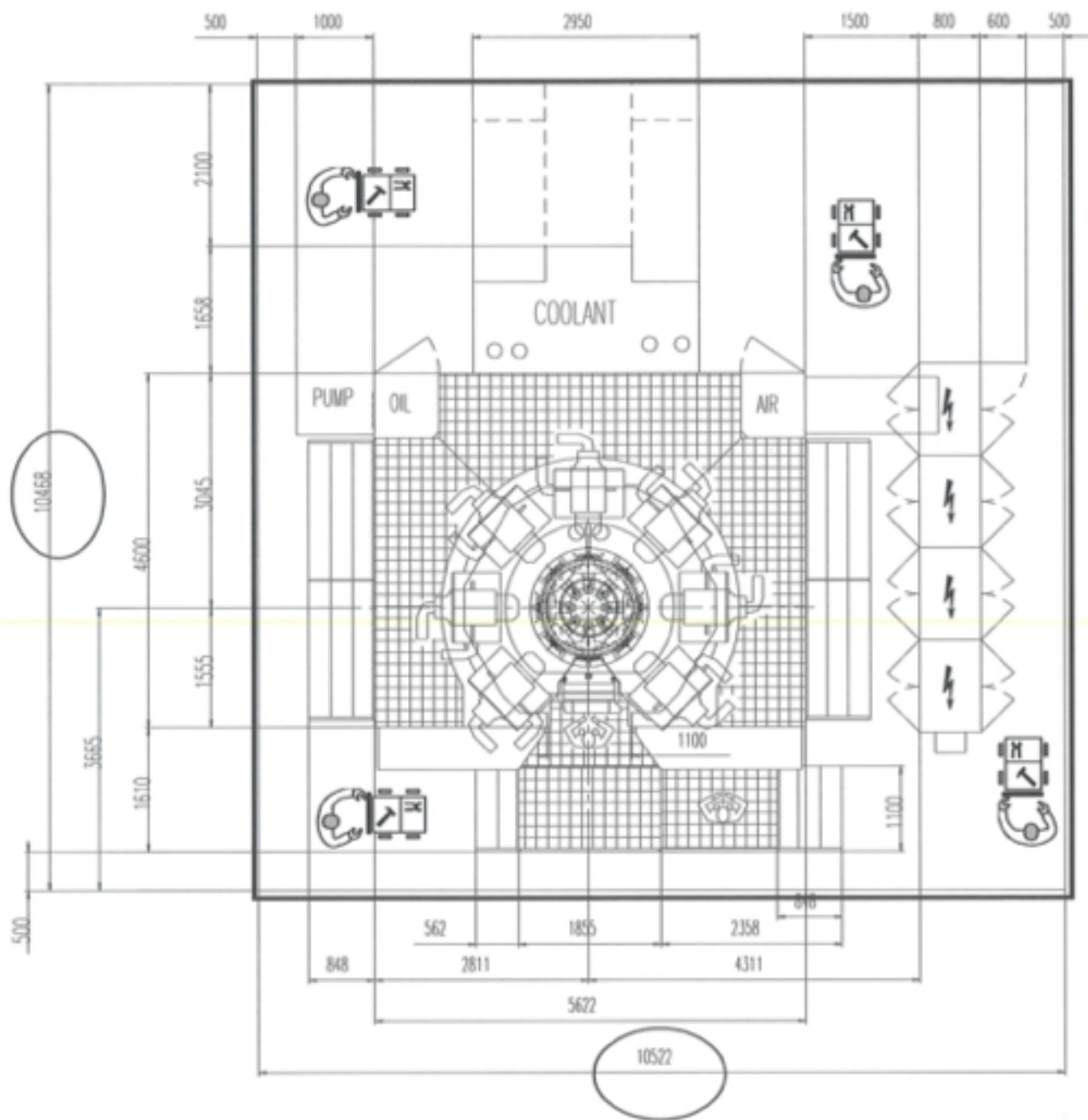
MINIMUM ROOM HEIGHT: 5,5m



AREA ARRANGED FOR MACHINE POSITIONING.

The area for the IMASFLEX final positioning has to be sufficiently wide to enable the set up. Moreover, it shall permit a certain facility in moving those parts that make it up and in carrying out the operations necessary for its correct running

INSTALLATION AREA



TECHNICAL DATA



MACHINE BASE

FEAUTES

• Max Diameter	3400 mm
• Max flatness error	0,002 mm
• Weight	6500 Kg



THREE AXIS MODULE

FEAUTES

• Tangential stroke Y	470 mm
• Radial stroke X	500 mm
• Vertical stroke Z	400 mm
• Max axes speed	15 m/min.
• Max acceleration	3 m/s ²
• Positioning accuracy	0,003 mm

FANUC AXES MOTOR

• Nominal torque	12 Nm
• Max torque	30 Nm

MAXIMUM MACHINING FORCES

• Max axial thrust	5000 N
• Max radial thrust	5000 N
• Optical row	yes
• Weight	1300 kg



TABLE

FEAUTES

• Diameter	1400 mm
• Stations	8
• Indexing time	2"
• Accuracy	± 1 second of arc (1")
• Weight	3200 kg (with satellities)



SATELLITE

FEAUTURES

• Indexing range	360°
• Pitch	1° (standard)
• Precision	±3" (±0,0015 mm) on Ø of 200 mm
• Inertial max	1,95 (Kgm²)



FANUC EQUIPMENT

FEAUTURES

• Numerical Control (CNC)	16iMB
• Programmable controller (PLC)	16iMB
• Controls	Alpha series
• Spindle motor / Servo motor	Alpha series



WTH6

FEATURES

• Max speed rotation	12000 R.P.M (std 8.000 r.p.m)
• Rotation speed at costant power	1500 ÷ 800 R.P.M
• Fanuc motor	alfa 3/8000 (alfa 6/8000)
• Nominal power	3,7 kW (5,5 kW)
• Nominal torque	23,5 Nm (35 Nm)
• Max power*	5,5 kW (7,5 kW)
• Max torque*	35 Nm (48 Nm)
• Tool change-over time	2,8 sec.
• Tool holder connection	cono Imas HSK 50+80
• Inside cooling	yes
• Weight	170 kg
• Speed vibration at 8000 r.p.m	0,2 mm/s

*S3 60%



SINGLE SPINDLE

FEATURES

• Max speed rotation	12.000 r.p.m
• Rotation speed at constant power	1500 ÷ 8000 r.p.m
• Fanuc motor	alpha 6/8000 (alpha8/8000)
• Nominal power	5,5 kW (7,5 kW)
• Nominal torque	35 Nm (48 Nm)
• Max power*	7,5 kW (11 kW)
• Torque max*	48 Nm (70 Nm)
• Tool holder connection	Imas cone HSK from 50 to 80
• Inside cooling	yes
• Weight	120 kg
• Speed vibration at 8.000 r.p.m	0,1 mm/s

*S3 60%



TOOLS MAX. NUMBER

Max tools number available on the machine	42
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ELECTRICAL EQUIPMENT

FEATURES

• Power supply	40 KVA min. / 50 KVA max.
• Voltage supply and frequency	(see electrical layout)
• Min. section of supply wires	35 mm ² (2 AWG)
• Max. breaking capacity of main switch	35 kA at 380 Vac
	25 kA at 440 Vac



PNEUMATIC EQUIPMENT

FEATURES

• Working pressure with running machine	5,5+6,5 bar
• Max air consumption	40 m³/h
• Max. pressure	10,5 bar

PNEUMATICS COMPONENT

• Air tanks	FESTO
• Valves and solenoid valves	FESTO
• Pneumatic cylinders	FESTO



FORCED LUBRICATION SYSTEM

FEATURES

Max. working pressure	28 bar (406 p.s.i.)
Continuous working pressure	28 bar (406 p.s.i.)
Operating temperature	-20°C ÷ +100°C
Voltage supply - frequency	(see electrical layout)



OIL-HYDRAULIC POWER PACK

FEATURES

Working pressure	10+150 bar
Tank capacity	350 litres
Voltage supply - Power - frequency	(see electrical layout)
Valves and solenoid valves	REXROTH



OIL-HYDRAULIC SYSTEM

FEATURES

Max. working pressure	2.5 bar
capacity	4 litri/min
Voltage supply - frequency	(see electrical layout)



LUBRICANT COOLANT SYSTEM

FEATURES

System general capacity	600 litres/min at 2 bar
Max emulsion viscosity	12 Cst at 20°
Filtering level (for external cooling)	0.050+0.070 mm
Tools inside cooling system capacity	140 litres/min at 40 bar
Filtering level (for internal cooling)	0.050 mm
System total capacity	3000 litres
System weight in empty condition	1600 Kg



MACHINE DIMENSIONS AND WEIGHT

FEATURES

• Dimensions	5000 x 7000 x 4000 mm
• Total weight standard machine	35000 kg