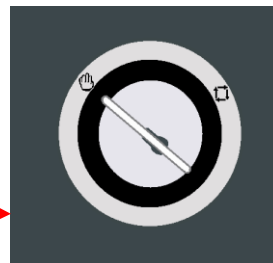
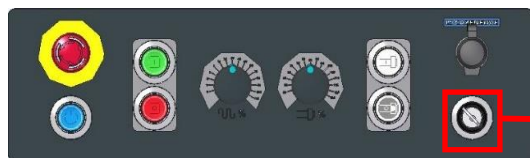


TECHNICAL INFORMATION

A HIGH PERFORMANCE CONTROL SYSTEM: OPTIMAX³

OPTIMAX³ is an innovative and unrivalled interface, developed by CAZENEUVE lathe operators on basis of the SIEMENS 840D sl CNC.

Two operating modes are offered: manual or automatic. The choice is made easily, with a key selector on the control panel.



Manual mode

Conventional machine for unit parts or prototypes, with simple functions executed by using the 4-way joystick: straight cutting, thread, thread repair, profiles, etc... In manual mode, the user can work with the doors open (up to the chuck).



Automatic mode

Automatic machine for small or medium runs, with access to a number of automatic functions: straight cutting, thread, thread repair, grooves, drilling, tapping, cutting, profiles, etc... These functions are executed using the Cycle start and Cycle stop buttons



Program mode and ISO functions

Program mode is used to create complete programs to represent all the machining operations for a workpiece. Its main advantage is to sequence all the types of machining. It can also incorporate sections of ISO G code.

Efficient, user-friendly and easily accessible, the OPTIMAX³ concept enables any operator to carry out a wide range of machining operations, from the simplest to the most complex.

For more information, we invite you to watch the presentation videos on our website: <https://www.cazeneuve.fr/logiciels/commande-assistee-optimax/#>.

TECHNICAL FEATURES

MACHINE CAPACITIES

Distance between centres	700 mm	
Swing over bed	390 mm	
Swing over slide	200 mm	
Turning length	610 mm	
Transverse travel (X)	180 mm	
Longitudinal travel (Z)	610 mm	
Loading capacities	In chuck	200 kg
	Between centres	500 kg
	Between centres with 1 steady	800 kg

SPINDLE

Type	Cartridge spindle with high precision bearings	
Rotational speed	Standard chuck (∅ 215 mm)	3000 rpm
	Collet chuck	4000 rpm
Spindle nose	A1-6" – DIN 55026	
Spindle taper	MT6	
Spindle bore diameter	∅ 54 mm	
Motor power	S1 (100%)	11 kW
	S6 (max.)	22 kW
Torque	S1 (100%)	190 Nm
	S6 (max.)	280 Nm

BED

Width	330 mm
Material / Quality	Cast-iron (EN-GJL-250) / HF hardening (48 - 50 HRC)

AXES

Z axis	Drive system	Ball screw ∅ 32 mm – pitch 5 mm
	Rapid feed	5 m/min.
X axis	Drive system	Ball screw ∅ 20 mm – pitch 5 mm
	Rapid feed	5 m/min

TAILSTOCK

Quill diameter	60 mm
Quill travel	140 mm
Morse taper	MT4

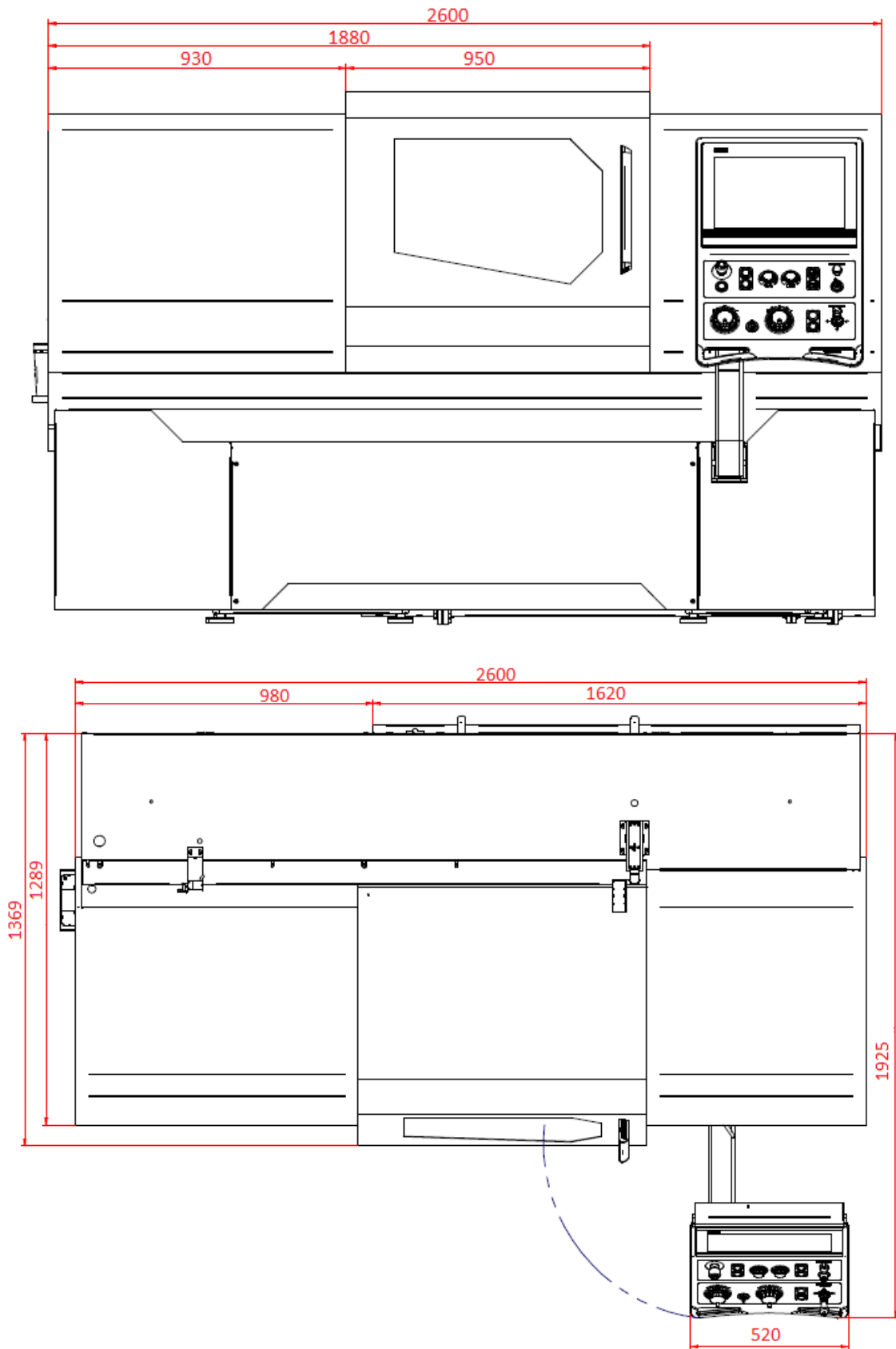
COOLANT

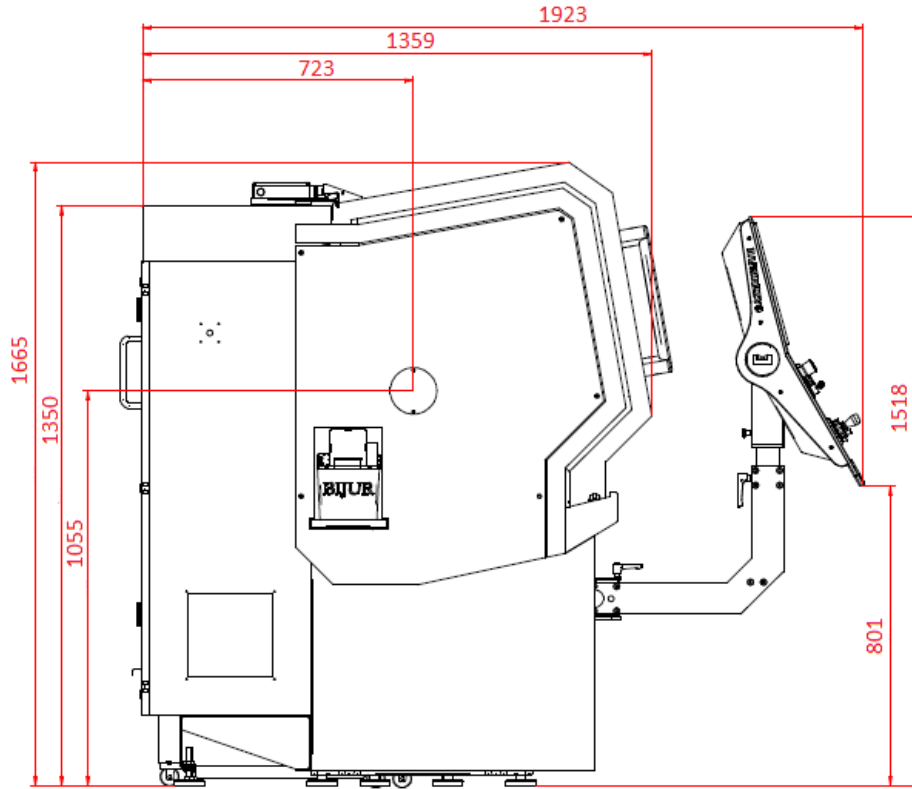
Pressure	2 bars
Flowrate	25 l/min.
Tank capacity	67 l

MISCELLANEOUS

Lube oil tank capacity	2 l
Dimensions (length x width x height)	1950 x 1575 x 1560 mm
Net weight (approx.)	2000 kg
Installed power	22 KVA
Electrical connection	Three-phase 400 V with TN neutral system

DIMENSIONAL DRAWINGS



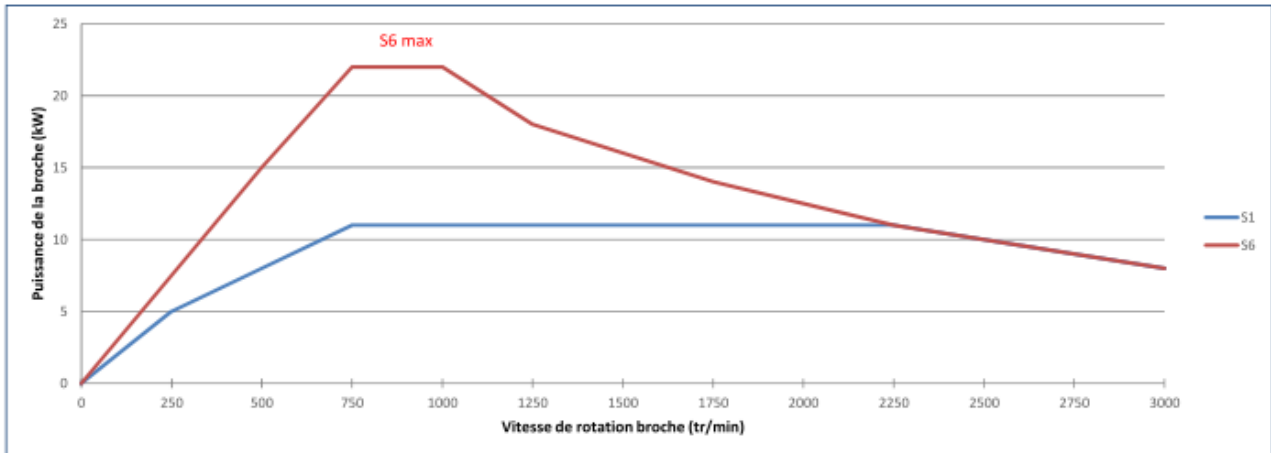


SPINDLE MOTOR POWER AND TORQUE CURVES

PUISSANCE ABSORBÉE

Rapport moteur / broche : 2

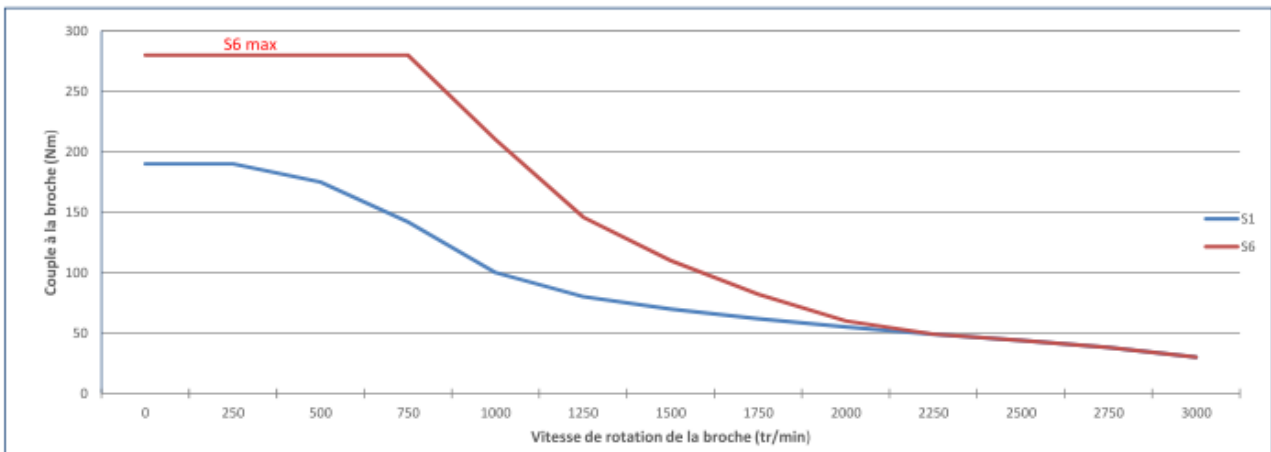
Vitesse	0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
S1	0	5	8	11	11	11	11	11	11	11	10	9	8
S6	0	7,5	15	22	22	18	16	14	12,5	11	10	9	8



COUPLE A LA BROCHE

Rapport moteur / broche : 2

Vitesse	0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
S1	190	190	175	142	100	80	70	62	55	49	44	38	30
S6	280	280	280	280	210	146	110	82	60	49	44	38	30



MAIN ADVANTAGES

- The operator gets quickly familiar with the machine.
- Set-up time is reduced.
- Any machining can be carried out (metric, withworth, customised... thread tables).
- Special thread repair function with spindle speed variation during machining.
- Automatic tolerance (H7...) function.
- Constant cutting speed, tool radius compensation.
- Machining simulation in all modes and 3D display of the profile in real time, with safety zone possible.
- Absolute encoders on the axes, avoiding zero point setting each time the machine is powered up.

- **Robust structure, with wide hardened V guides and a very rigid bed.**
- Tool presetting.
- Profiles and tools storage and external backup via a USB port or a RJ 45 connection (network).
- Ergonomic design.

SAFETY

All our machines comply with the EC regulation, and meet the requirements of the following directives:

- 2006/42/EC directive;
- BT 2006/95/EC low voltage directive ;
- 2014/30/EU ElectroMagnetic compatibility directive.

« SAFETY » function: Integrated Safety.

« SISTEMA » report: test and report regarding safety points



ELECTROMAGNETIC COMPATIBILITY (EMC)

It is important to connect the machine to an installation fitted with a reinforced or higher than 500 mA differential circuit breaker. Otherwise, we strongly recommend the use of an isolating transformer.