PULSAR

CROSSflex

C1.60
C3.75
S1.50

HIGH PRODUCTION CNC EXTERNAL CYLINDRICAL GRINDING MACHINES

PULSAR completes Tacchella's current line of Cross-flex external grinding machines, offering modern, high-tech solutions for medium to high production grinding with either conventional or high-speed CBN wheels.

These machines are designed with modularity in mind, from the systems standpoint as well as in terms of the enormous range of grinding applications they can handle.

The Pulsar line can perform the most innovative external cylindrical grinding jobs, thanks to its unmatched operating capacity, multiple configurations, automated systems, dedicated software and wide range of accessories.

Pulsar is designed for factory automation, and can be interfaced with gantries, integrated workpiece loaders and robots.

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COMPANY
AUTHORISED TO USE
THE MARK

UCIMU

**COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001**

PULSAR ...technology in motion!

Selecting grinding machines for high-output production processes means being able to assess and identify the best technology for each specific application.

PULSAR is a full range of high-production grinders with dedicated models both for conventional grinding wheels **(C line)** and for high-speed CBN wheels **(S line)**. With this design strategy, Tacchella's machines provide the best value for money, every time.

The C line, with two different machine sizes, features specific wheelheads for 610 mm or 760 mm diameter tools, both customized for wheel width.

The S line features a machine structure designed especially for CBN technology with 500 mm diameter wheels and surface speeds up to 140 meters per second, and is ideal both for "flexible" operations such as contouring and for more "rigid" high-output processes like plunge-cut grinding.

In addition, each line offers a choice of three different between-centres capacities - 1100, 1600 and 2100 mm - to ensure outstanding processing flexibility for most types of grinding application.

Several types of wheel spindle are available, all with integral high-power, high-torque motors and hydrodynamic bearings for conventional wheel versions or extra-precise ceramic bearings for CBN wheel versions.

All machines are equipped with automatic dynamic wheel balancers incorporated in the spindle nose so that the balancing weights act as close as possible to the wheel face:

a feature that has always set Tacchella apart from the competition.

These are only a few of the engineering advantages offered by the **PULSAR** design:

a design that has been applied in hundreds of machines now operating in major high-output production facilities.
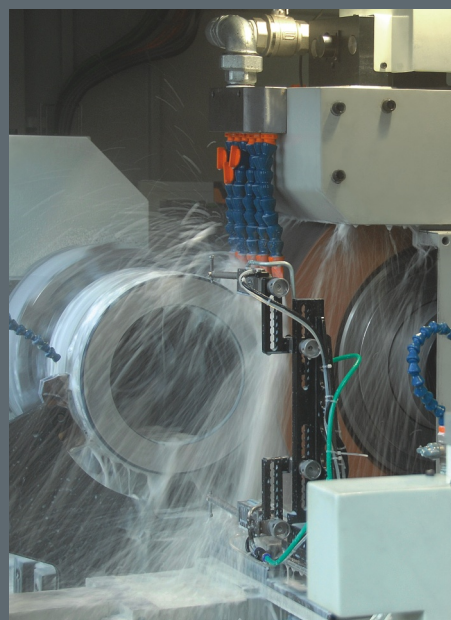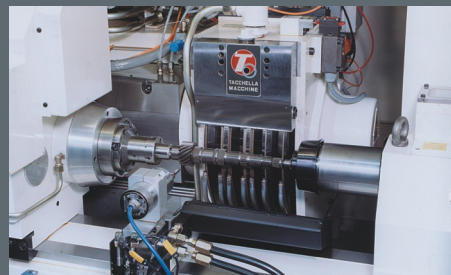
Main technical specifications:

C1.60
Height of centres / Distance between centres: 180 (230)* mm / 1100 - 1600 - 2100 mm
Max. weight between centres: 150 (250)* kg
Wheel (external diameter x thickness x bore) / Power / Peripheral speed:
610x150 (200)*x203.2 mm / 17 kW / 50 (63)* m/s

C3.75
Height of centres / Distance between centres: 230 (305)* mm / 1100 - 1600 - 2100 mm
Max. weight between centres: 250 (400)* kg
Wheel (external diameter x thickness x bore) / Power / Peripheral speed:
760x200 (350)*x304.8 mm / 29 kW / 50 (63)* m/s

S1.50
Height of centres / Distance between centres: 180 (230)* mm / 1100 - 1600 - 2100 mm
Max. weight between centres: 150 (250)* kg
Wheel (external diameter x thickness x bore) / Power / Peripheral speed:
CBN 500x50 mm / 37(S1) kW / 120 (140)* m/s

( )* Technical variants - Further details, construction and accessories available on request. All weights, measurements, dimensions and other specificationa indicated in this publication are provided for information only. We reserve the right to make any necessary changes at any time and without previous notice.