

CS 30 Balancing Machine for Crankshafts



- Modular construction
- Integral drilling station with linear guide mechanism
- Software controlled display of drilling depth, tolerance calculation and indexing aid
- High-performance CAB 700 or CAB 803 Measuring instrumentation
- Permanent calibration

Range of application

CS 30 crankshaft balancing machines are conceived in particular for low-volume production and overhaul shops. The CS 30 is a hard-bearing machine with permanent calibration. This means that a new rotor can be mounted easily and balanced after entering only a few geometrical rotor data.

The integrated measuring instrumentation directly displays unbalance with amount and angular position, depending on the initial unbalance of the rotor.

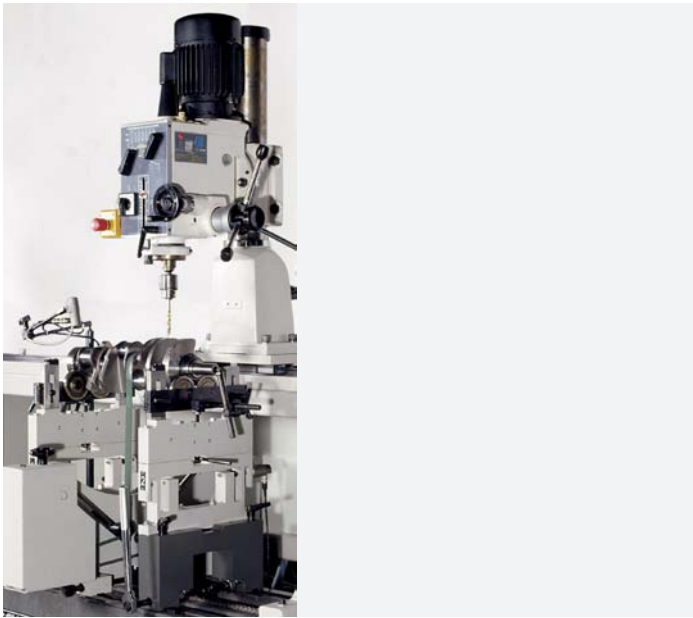
CS 30 balancing machines are suitable for rotors weighing up to 700 kg. A powerful underslung belt drive ensures short acceleration periods for short balancing cycles. The machine's compact and sturdy design concept provides for a small footprint.

CS 30 balancing machines can be used with the CAB 700 or CAB 803 measuring instrumentation and can also be equipped with a report printer.

A further advantage of the CS 30 balancing machine lies in its area universal applicability. The machine is also suitable for other rigid rotors provided that they do not exceed the geometrical limits of the machine.

Unbalance correction is performed directly on the CS 30 by a highperformance drilling unit. There is therefore no need to remove the work-piece from the machine and install it on a separate correction unit.

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Technical data at a glance

CS 30

Machine

Basic machine with CAB 700	Hard-bearing, with permanent calibration
Length of machine bed	1500 mm, optional 2500
Unbalance reduction ratio (URV)	up to 95 %
MARU	3 gmm
Rotor weight	max. 700 kg
Rotor diameter above machine base	max. 460 mm
Bearing pedestal distance	max. 1160 mm, optional 2160 mm

Bearing pedestal distance:

Belt drive outside bearing pedestals	min. 70 mm
Belt drive between bearing pedestals	min. 120 mm
Bearing journal diameter	10 - 80 mm

Drive system

Underslung belt drive	Grösse 3/30
Belt width	ca. 13 mm
Balancing speed, min.	ca. 160 - 2380 min ⁻¹
Drive power	2,2 kW, frequency controlled
Motor speed	ca. 2800 min ⁻¹

Drilling unit

Spindle speeds	60 / 130 / 230 / 450 / 800 / 1500 min ⁻¹
Drill diameter	max. 25 mm
Nominal power	1,1 kW
Distance between correction planes	800 mm standart, 1700 mm as option
Stroke of spindle sleeve	ca. 125 mm
Movement of drilling head	Parallel to rotor shaft axis
Height adjustment of drilling head	350 mm
Swivelling range of drilling unit	360°

Order No.	R0270100.02
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Software	Order No.	R0270103.02
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