

## 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.

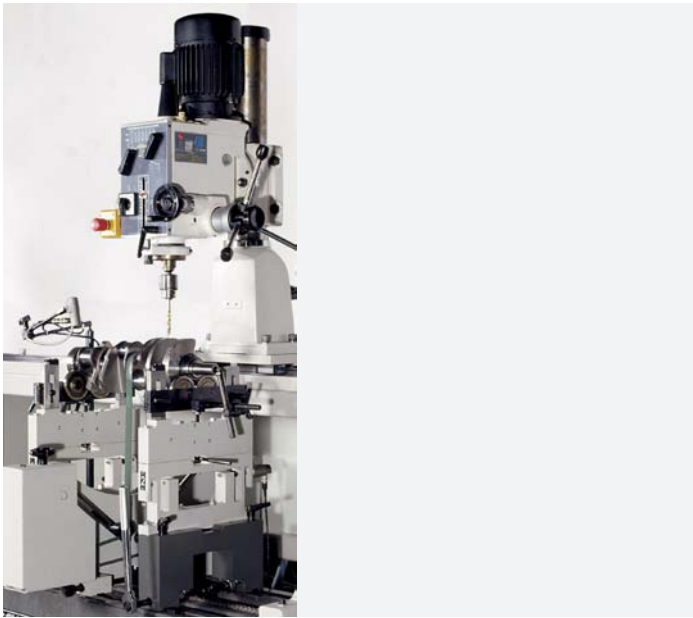
CS 30 balancing machines are suitable for rotors weighing up to 700 kg. A powerful underslung belt drive ensures short acceleration periods for short balancing cycles. The machine's compact and sturdy design concept provides for a small footprint.

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 <sup>-1</sup> |
| Drive power           | 2,2 kW, frequency controlled     |
| Motor speed           | ca. 2800 min <sup>-1</sup>       |

#### Drilling unit

|                                    |   |
|------------------------------------|---|
| Spindle speeds                     | 60 / 130 / 230 / 450 / 800 / 1500 min <sup>-1</sup> |
| 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°  |

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| Software | Order No. | R0270103.02 |
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