

Modular design

Integrated drilling station with linear guide unit

Software-controlled drilling depth indication, tolerance calculation, electronic angle protractor

High-performance measuring unit CAB 700 or CAB 920

Balancing Machine for Crankshafts

Type CS 30

Application

The new CS 30 dynamic balancing machine allows high-performance crankshaft manufacturers and overhaul shops to completely balance crankshafts at one convenient workstation.

The CS 30 is a hard-bearing machine with permanent calibration. Thus a new rotor can be directly loaded and balanced after entering just a few values of the rotor geometry.

Amount and angular position of the unbalance - regardless of the initial unbalance - are displayed immediately on the integrated measuring unit. The CS 30 can carry a rotor weight of up to 700 kg. A highly efficient underslung belt drive provides short acceleration times, ensuring short balancing procedures. The compact design of the CS 30 requires only little floorspace.

The machine may be equipped with our measuring unit CAB 700 or CAB 920 and a printing system.

Another important advantage of the CS 30 is the wide range of application: also any other type of rigid rotors which do not exceed the limits of geometrical data may be balanced.

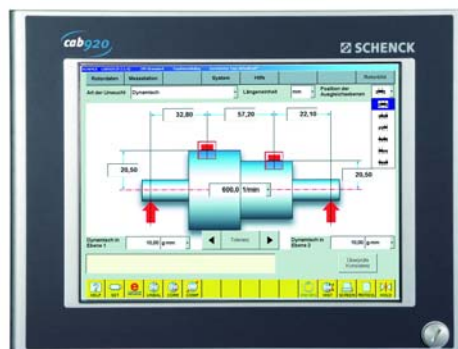
Unbalance correction is made directly on the CS 30, using the powerful drilling unit. No unloading of rotors for drill-correction is required.

Important data at a glance

Machine	Basic machine with CAB 700	hard-bearing, with permanent calibration
	Length of machine base	1500 mm
	Unbalance reduction ratio	up to 95 %
	Minimum achievable residual unbalance (UMAR)	3 gmm
	Rotor weight	max. 700 kg (symm.)
	Rotor diameter over machine base	max. 700 mm
	Accommodating length between roller bearings	max. 1160 mm
	Accommodating length in case of:	
	• belt drive outside roller bearings	min. 70 mm
	• belt drive between roller bearings	min. 120 mm
Drive	Bearing journal diameter	10 - 80 mm
	Underslung belt drive	size 3/30
	Belt width	approx. 13 mm
	Balancing speeds	approx. 160 - 2380 min ⁻¹
	Nominal power	2,2 kW, frequency-controlled
Drilling Unit	Motor speed	approx. 2800 min ⁻¹
	Spindle speeds	400 - 2580 min ⁻¹
	Drill capacity	max. 20 mm
	Nominal power	1,5 kW
	Distance between correction planes	standard distance 800 mm, opt. 1700 mm
	Quill stroke	approx. 120 mm
	Drill head movement	parallel to rotor shaft axis
	Height adjustment of drill head	425 mm
Options	Swivel range of drill head	90°
	Measuring unit CAB 920 see brochure RC1026 (CAB 700 see brochure RC1034-1) Software: Optimized Mass Correction for Crankshafts	



CAB 700



Measuring unit CAB 920

 **SCHENCK**

**Balancing and
Diagnostic Systems**

SCHENCK RoTec GmbH
Landwehrstraße 55
D-64293 Darmstadt

Tel.: +49 (0) 61 51 - 32 23 11
Fax: +49 (0) 61 51 - 32 23 15
eMail: rotec@schenck.net

For further information, please refer to:
www.schenck-rotec.com