

WEMA JOKER 7000 - Hydraulic copying lathe



WEMA JOKER 7000 a significant product pertaining to our delivery scope, is the forerunner of an entirely new generation of hydraulic duplicating lathes. The copying support and slide which run on hardened and ground ball transfer guides are features which are particularly worth mentioning.

The duplicating lathe chisels are located very close to the revolving collar plate even on the double copying support. The different types of collar plates and accessory parts can all be retrofitted at any time, thus permitting the machine to be fitted to the changing requirements in the client's shop.

The drive unit for the support advance is fitted to the rear of the machine in order to provide plenty of space and freedom of movement on the operating side.

The operating and control elements are both coordinated on a travelling control panel. All wires and ducts are collected in an energy guide chain to prevent disturbances and save space. The displacement of the templates is possible both from the front and the rear by means of fine-pitch threaded spindles. The precutting and duplicating lathe chisels are fitted with precision settings. Thanks to precision depth-setting spindles it is possible to obtain extremely accurate turning diameters. The equipment variants include rotary collar plates with various interchangeable rings and steplessly adjustable four-jaw collar plates. The infinitely variable spindle speed permits a quick adjustment to the optimum speed, hence warranting top turning quality. The duplicating process is also possible in reverse motion, permitting an entirely tear-free processing of the squared beam blanks with a cut that is accurate to measurement without any loss. The tailstock sleeve is available with an articulated quick-action lever upon request. The particularly heavy cast iron base is completely rigid and torsion-free.

The machine is available as a single duplicating or as a double duplicating lathe and can be retrofitted to a CNC lathe. It is also possible to use the machine as a manual turning lathe.



Profile sharpening machine with diamond grinding wheel



Sharpening machine „BLITZ“ for copy lathe tools



Ring collar plate with adjusting spindle, pointed tools on both copying supports, hand rest for manual reparting



Four-jaw collar plate, infinitely variable



Rear view of machine with double scanning system, ball transfer guides on lathe base, feed motor, energy guide chain, template support with master pattern scanning & adjustment mechanism

Technical Data

Maximum width:	1600 mm, duplicating length with collar plate and on copying support 1500 mm, duplicating length with collar plate and two duplicating supports (double duplicating system) 1450 mm
Maximum height:	250 + 300 mm, maximum turning diameter via copying slide 280 mm resp. 330 mm
Feed motion:	infinitely variable, quick return motion with main limit switch
Copying slide:	hydraulic, lift 100 mm resp. 150 mm Possibility to alter basic positioning range of the entire copying slide in order to be able to process diameter ranges of extremely varied sizes
Spindle:	M 33, collar 35 mm, inner cone MK 3, hollow spindle with 14 mm bore diameter, with reinforced triple bearing by means of maintenance-free precision angular ball bearing
Tailstock:	Eccentric quick gripping and safety lathe base gripping, sleeve MK 2, sleeve lift 150 mm (with adjustable articulated quickaction lever upon request)
Collar plates:	ring collar plate for 15 - 70 mm with quickly interchangeable insertion rings, 3 four-jaw collar plates, infinitely variable 30 - 60 mm, 60 - 100 mm, 120 - 180 mm
Motor:	2.2 kW rotary current (3.0 kW upon request), infinitely variable speed within two different ranges: 200 to 2000 / 350 to 3400 RPM
Hydraulic pump motor:	0.37 kW
Electric supply:	Safety electric unit pursuant to VDE, protective motor pursuant to IP 54
Voltage:	400/230V, 3/PE/N, 50 Hz., special voltage upon request
Total consumption:	Maximally 3.0 or 4.0 kW
Suction:	Ring collar plates and duplicating side: 100 mm diameter respectively
Dimensions:	L = 2550 mm, W = 1300 mm, H = 1200 mm
Weight:	Approx. 700 kg

Technical alterations reserved.