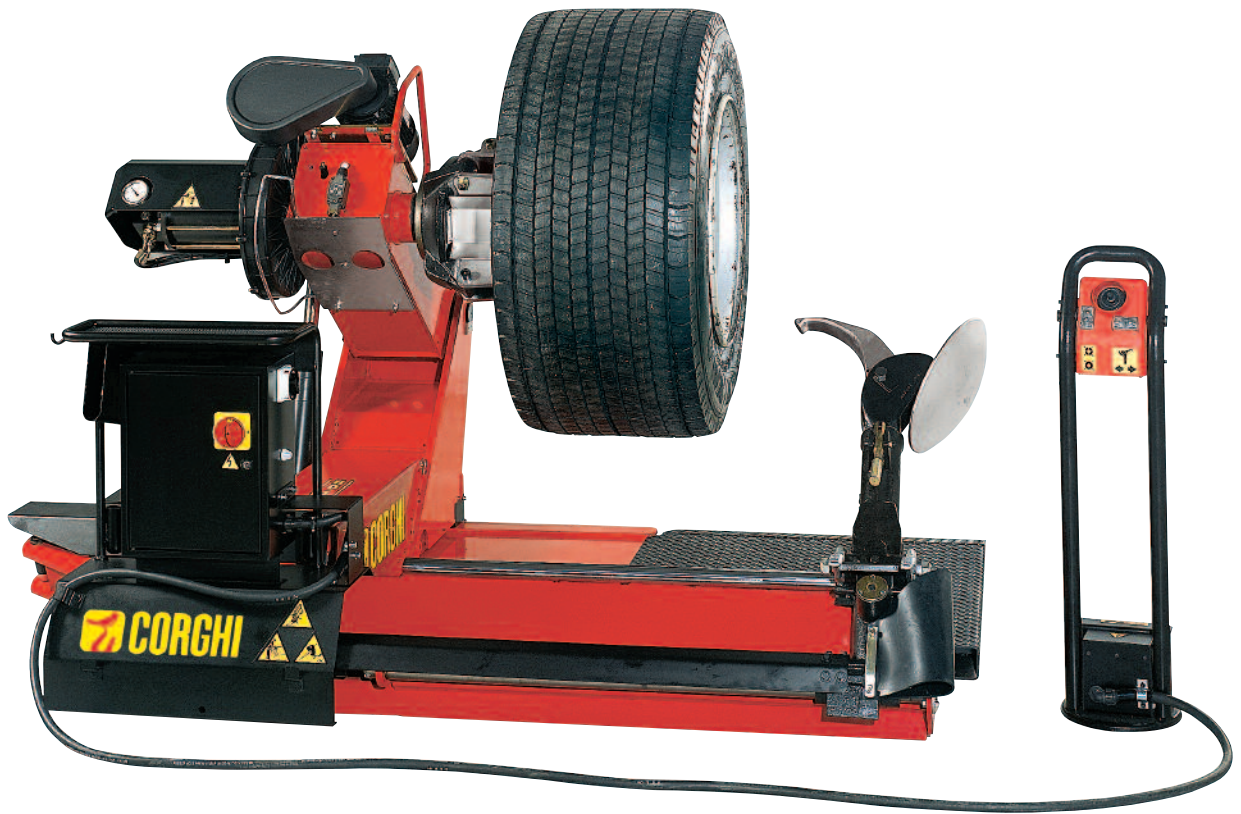


HD1000



General description

The **HD 1000**, a **semiautomatic** tyre changer, is suitable for mounting and demounting truck, agricultural, industrial and construction equipment wheels up to a maximum width of 980mm. Operation is **electrohydraulic** and the controls are all located on a low-voltage portable unit.

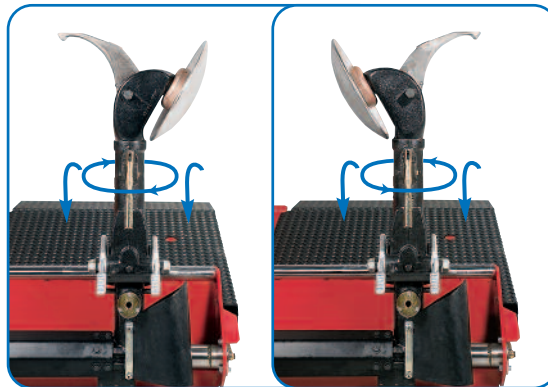
The **hydraulic power** unit is installed on the machine to reduce floor-space requirements.

The hydraulic turntable, with **two rotation speeds** in both directions, has top-range design features and uses choice materials. It assures **excellent clamping** during the delicate wheel clamping, bead breaking and tyre demounting functions.

The new-design **clamps** allow operation on all types of rim, and above all allow a diameter of 110 mm to be clamped without any need for special adapters. The tool arm moves along the base for easier tool positioning during work.

The **new design tool arm** has an overhanging bead breaker disc mounted on **self-lubricating bushings** to ensure durability and smooth travel. The disc's unusual shape has been specifically developed to allow the best possible penetration between the rim

edge and tyre bead; what's more, its rounded external profile prevents damage to or jamming against the tyre wall. The tool used is of tried and tested shape, and has an effective protective coating.

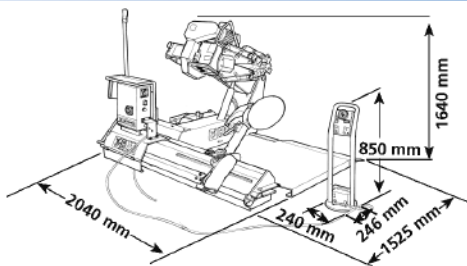


Sequence of tool arm movements

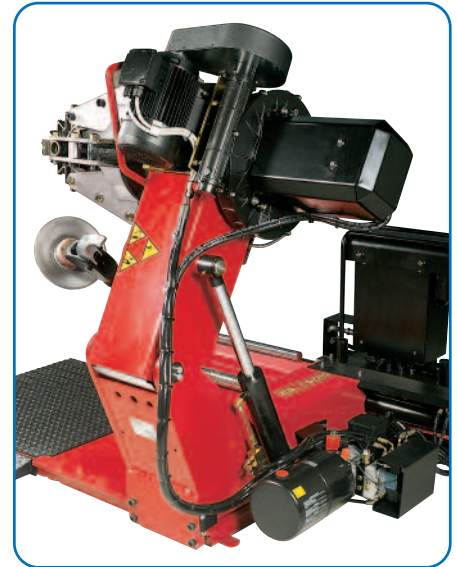
»»» Main characteristics

- **Semiautomatic tyre changer** for truck and agricultural, industrial and construction equipment wheels
- **Electrohydraulic** operation
- Portable control unit separate from the machine
- Wheel clamping by means of **hydraulic turntable**
- **Two-speed turntable rotation** in both directions with **electric brake motor**
- Steel tool arm
- Manual tool rotation
- **Overhanging bead breaker disc mounted on self-lubricating bushings**
- Pressure gauge for monitoring hydraulic pressure

tool arm	demount mode	with lever
	lengthways stroke	893 mm
	lengthways speed	150 mm/s
	working lengthways speed	150 mm/s
	bead breaking maximum lengthways force on inside	24000 N
	bead breaking maximum lengthways force on outside	28000 N
	radial stroke	130 mm
	rotation	manual
	clamping	manual
	clamping positions	1
spindle carriage	hydraulic lengthways stroke	495 mm
	lengthways speed	50 mm/s
	working lengthways speed	50 mm/s
spindle	clamping system	hydraulic turntable
	rotation motor	1,3/1,85 kw
	First rotation speed	4 rpm
	Second rotation speed	8 rpm
	first speed rotation torque	4120 Nm
	second speed rotation torque	2943 Nm
	clamping element	4 (clamps)
	clamping capacity	from 11" to 56"
	clamping positions	4
	maximum clamping force	42000 N
	maximum hydraulic pressure	100 bar
	maximum tyre diameter	2200 mm
	maximum tyre width	980 mm
	maximum wheel weight	1000 kg
	wheel central hole minimum Ø	110 mm
spindle shaft minimum working height	385 mm	
power unit	Stand-by function	NO
	operation	electrohydraulic
	motor	1,5 kw
	adjustable hydraulic pressure	from 60 to 100 bar
control module	oil tank	7,6 l
	command transmission	by cable
	electrical voltage	24 V
power supply	weight	8 kg
	electrical 3ph	230/400 V - 3,6 kW
noise	level in operating conditions	≤ 70 dB (A)
weight		855 kg



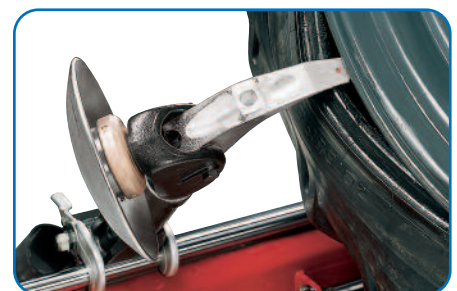
Technical Data



➤ New machine structure



➤ Pneumatic bead breaking



➤ Demounting the tyre

Technical data

	HD 1000	AG DOUBLE T.T.L.	HD600
tool arm	demount mode lengthways stroke lengthways speed working lengthways speed bead breaking maximum lengthways force on inside bead breaking maximum lengthways force on outside radial stroke rotation clamping clamping positions hydraulic lengthways stroke lengthways speed working lengthways speed clamping system rotation motor rotation speed rotation torque clamping element clamping capacity clamping positions maximum clamping force maximum hydraulic pressure maximum tyre diameter maximum tyre width maximum wheel weight wheel central hole minimum Ø spindle shaft minimum working height	with lever 545 mm 65 mm/s 65 mm/s 21600 N 20100 N 190 mm automatic automatic 1 540 mm 65 mm/s 65 mm/s hydraulic turntable 1.5 kW 7 rpm 2943 Nm 4 (clamps) from 14" to 25" 1 40000 N 125 bar 1280 mm 700 mm 350 kg 120 mm 370 mm NO electrohydraulic 2.2 kW from 80 to 120 bar 8.5 l by cable 24 V 8 kg 230/400 V -4 kW ≤ 70 db (A) 568 kg	with roller/lever 500 mm manual manual 15100 N 21000 N NO/Fix manual manual 3 670 mm 52 mm/s 52 mm/s manual turntable 1.1 kW 6 rpm 1700 Nm 4 (clamps) from 13" to 26" 1 - - 1300 mm 600 mm 1000 kg 140 mm 350 mm NO electrohydraulic 1.1 kW 110 bar 6 l by cable 24 V 8 kg 230/400 V -2.2 kW ≤ 70 db (A) 390 kg
spindle carriage	hydraulic lengthways stroke lengthways speed working lengthways speed clamping system rotation motor rotation speed rotation torque clamping element clamping capacity clamping positions maximum clamping force maximum hydraulic pressure maximum tyre diameter maximum tyre width maximum wheel weight wheel central hole minimum Ø spindle shaft minimum working height	with lever 893 mm 150 mm/s 150 mm/s 24000 N 28000 N 130 mm manual manual 1 495 mm 50 mm/s 50 mm/s hydraulic turntable 1.3/1.85 kW 2 speeds (4 - 8 rpm) 4120/2943 Nm 4 (clamps) from 11" to 56" 3 42000 N 100 bar 2200 mm 980 mm 800 kg 100 mm 385 mm NO electrohydraulic 1.5 kW from 60 to 100 bar 7.6 l by cable 24 V 8 kg 230/400 V -3.6 kW ≤ 70 db (A) 855 kg	
spindle	clamping system rotation motor rotation speed rotation torque clamping element clamping capacity clamping positions maximum clamping force maximum hydraulic pressure maximum tyre diameter maximum tyre width maximum wheel weight wheel central hole minimum Ø spindle shaft minimum working height	hydraulic turntable 1.5 kW 7 rpm 2943 Nm 4 (clamps) from 14" to 25" 1 40000 N 125 bar 1280 mm 700 mm 350 kg 120 mm 370 mm NO electrohydraulic 2.2 kW from 80 to 120 bar 8.5 l by cable 24 V 8 kg 230/400 V -4 kW ≤ 70 db (A) 568 kg	manual turntable 1.1 kW 6 rpm 1700 Nm 4 (clamps) from 13" to 26" 1 - - 1300 mm 600 mm 1000 kg 140 mm 350 mm NO electrohydraulic 1.1 kW 110 bar 6 l by cable 24 V 8 kg 230/400 V -2.2 kW ≤ 70 db (A) 390 kg
power unit	operation motor adjustable hydraulic pressure oil tank command transmission electrical voltage weight electrical 3ph level in operating conditions	electrohydraulic 1.1 kW from 80 to 120 bar 8.5 l by cable 24 V 8 kg 230/400 V -4 kW ≤ 70 db (A) 568 kg	electrohydraulic 1.1 kW 110 bar 6 l by cable 24 V 8 kg 230/400 V -2.2 kW ≤ 70 db (A) 390 kg
control module	command transmission electrical voltage weight electrical 3ph level in operating conditions	by cable 24 V 8 kg 230/400 V -4 kW ≤ 70 db (A) 568 kg	by cable 24 V 8 kg 230/400 V -2.2 kW ≤ 70 db (A) 390 kg
power supply	electrical 3ph level in operating conditions	230/400 V -4 kW ≤ 70 db (A) 568 kg	230/400 V -2.2 kW ≤ 70 db (A) 390 kg
noise	level in operating conditions	≤ 70 db (A)	≤ 70 db (A)
weight		568 kg	390 kg