



## All MAGURA *rim brakes* 2002 at a glance

model	tech features	deceleration (100 N applied handforce, DIN 79100 standard)	piston diame- ter brake lever (master) in mm	piston diame- ter brake cylinders in mm	weight per brake (without booster)	transmissi- on medium	brake hose	brake lever material	color brake lever	lever blade material	color lever blade	reach adjust	other features
HS 33	fully hydraulic rim brake; closed system without expansion reser- voir	4,2 m/s <sup>2</sup>	14	2 x 14	395 grams	MAGURA Blood mineral oil	nylon, easily shor- tened	aluminium	silver, red, race-line yel- low, SID-blue and matt black	forged alloy	HS 33 silver, SID blue and black: silver HS 33 Race- line and red: black	yes	TPA (on-the fly toolless pad wear adjustment)
HS 33 FIRM-tech	dito	4,2 m/s <sup>2</sup>	14	2 x 14	only brake 272 grams	dito	nylon, easily shor- tened	aluminium	only silver	forged alloy	silver	yes	TPA (see above), separate adjust- ment screws for different rim widths integrated in brake cylin- ders; double quick release
HS 11	dito	3,9 m/s <sup>2</sup>	16	2 x 14	360 grams	dito	nylon, easily shor- tened	composite	matt black	forged alloy	black	no	pad wear adjust- ment with Allen key no. 4
HS 66	dito	3,9 m/s <sup>2</sup>	16	2 x 14	425 grams	dito	nylon, easily shor- tened	aluminium	matt black	forged alloy	silver	yes	pad wear adjust- ment with Allen key no. 2

