

The comparison

Height adjustable by hand with weight regulation	Height adjustable by hand – with gas spring	Height adjustable by motor – mechanical synchronously	Height adjustable by motor – double telescope
++ fastest adjustment (52 cm / sec)	++ fastest adjustment (52 cm / sec)	++ mechanical synchronized	++ price advantages
++ small noise pollution	++ small noise pollution	+ digital height indicator	++ big leg space (without cross rail)
++ mechanical synchronized	++ mechanical synchronized	+ weight independent adjustment	+ extra large adjustment range (65 – 125 cm)
++ price advantage, small investment, no operating expenses	++ price advantage, small investment, no operating expenses	+ + good adjustment range (68 – 120 cm)	+ weight independent adjustment
++ high user acceptance	++ high user acceptance	- power requirement	- power requirement
+ good adjustment range (68 – 120 cm)	+ good adjustment range (68 – 120 cm)	- noise nuisance	- noise nuisance
+ maintenance-free	+ maintenance-free	- adjustment period 70 mm / sec	- electrical synchronized
+ non-volatile	+ non-volatile	- check obligation	- check obligation
+ with weight regulation, freely during adjustment range of 40kg (0 – 40kg, 20 – 60kg, 40 – 80kg)	- weight regulation with gas spring	- low user acceptance	- low user acceptance
			- - adjustment period 40 mm / sec

„Use“ costs

120 watt

151,66 hours

18,2 kW/hour

(3 recommended changes per hour x 13 sec. adjustment time
x 7 working hours x 2000 users) turned on per day

15 cent (electricity tariff per kWh)

Result: 600,60 Euro

(pure power consumption costs per year without basic charges) x
13 years = **7.807,80 Euro**

„Stand by“ costs

Each watt stand bypower in a permanantly turned on electrical device generates approx. 1,31 Euro electricity costs per year. This is based on 15 cent per kWh electricity.

The formula:

Standby use (W) x standby time per day (h) x days of using per year x 1/1000 x electricity price (€/kWh)

2 **watt** standby consumption (Linak Motor CB 4 according to manufacturers provided information)

24 **hours** per day turned on

15 **cent** (electricity price per kWh)

Result: 2,63 Euro (pure consumption costs per year without basic charges)

4.000 (2 W x 2000 AP) **watt**

24 **hours** per day turned on x 360 days

15 **cent** (electricity price per kWh)

Result : 5.184 Euro (pure consumption costs per year without basic charges)

52.000(2 W x 2000 AP x 13 J) **watt**

24 **hours** per day turned on

15 **cent** (electricity price per kWh)

Result: 67.392 Euro (pure consumption costs per year without basic charges)

For further information: http://www.stromtarifsuche.de/strom_sparen.php



„Maintenance“ costs - electrical test according to BVG A3

Since 1.4.1979 repeated inspection of electrical devices at your site is the duty according to **BVG A3**. Failure to comply with this obligation a fine of 10.000,- EUR can be imposed!

Schedule 1B: repeated inspection movable electrical operating equipment

Plant / plant devices	Check interval Indicative and maximum value	Type of test	controller
Movable electrical operating equipment (as far as used) Extension and connection cable with plug connection Connecting cables with plug Movable electrical cables with plug and fixed connection	Indicative value 6 months, on construction site 3 months. If a testing error rate of <2% is reached the test period can be extended accordingly. Maximum value: On construction side, in manufacturing facilities and workshops or under similar conditions one year, In offices or under similar conditions two years.	for proper condition	Electrically skilled person, with use of appropriate measuring and testing equipment and electronic trained persons

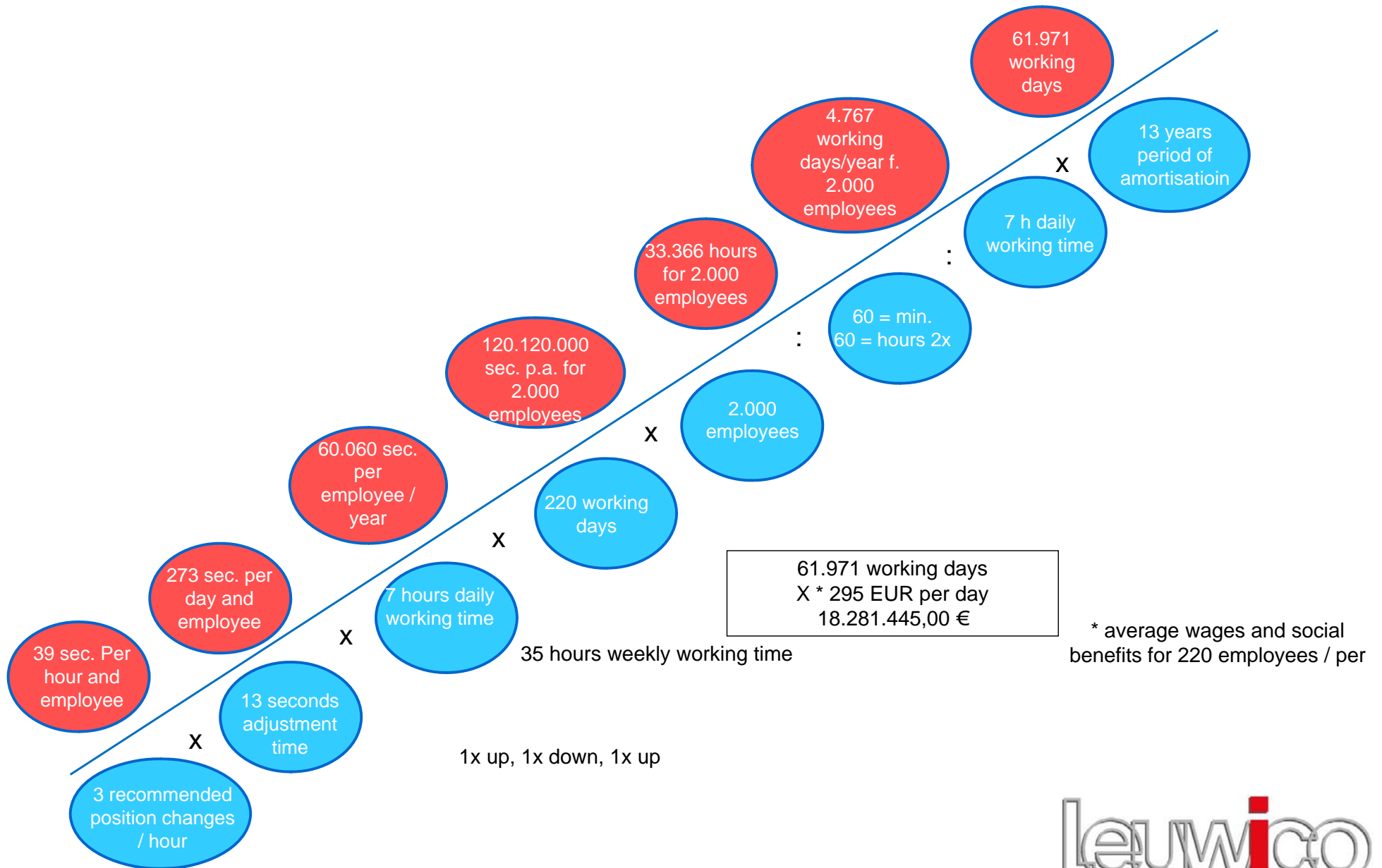
Estimated time for checking a desk with height adjustment by motor
5 to 10 min.

Estimated costs, when testing in combination with other devices:
Per desk 5 Euro a 450 desk = **2.250,-- €**

x 6,5 (2-year test according to 13 year amortization period) = **14.625,-- Euro**



Costs „working hours“



Overview of costs during 13 years recovery period

	Adjustment by motor	Adjustment by hand
Electricity consumption „use“	7.808 €	0 €
Electricity consumption „standby“	67.392 €	0 €
Maintenance costs accord: to BVG A3 approx.	65.000 €	0 €
Loss workingtime	18.281.445 €	0 €
TOTAL	18.421.645 €	0 €

Additional costs for 2000 sit-/stand desks with height adjustment by motor
per year 1.417.049,60 €