

Motorized Monopoles

TLM 70.120

Monopole for the precise positioning of spotlights and audio and video equipment.

Motorized vertical movement with dynamically self-locking drive.

Fully modular design for easy adaptation to local requirements or customer requests. Motorized horizontal movement as an option.

Monopoles by MTS are famous for their extremely small radial deviation of less than $\pm 2^\circ$. Thanks to their thought-through design, they provide as much operational safety as technically possible. The slim footprint of only 120 x 68 mm of the external tube makes it possible to use the monopole also overgrid. Two bobby cable drums (left and right of the drive) ensure precise cable guidance and thus a very smooth movement of the monopole's tubes. The tubes are secured in place by wear and tear-free plastic guides that also prevent them from getting stuck.

Monopoles by MTS guarantee the highest degree of flexibility in studio use: Fully automated studios reduce the time to modify the light settings according to the different pre-programmed formats to an absolute minimum.

Power supply to the monopoles may either be through trailing cables or more economically through live and signal conductor rails.

There are two standard versions available with a maximum extension of either 7 m (TLM 70) or 12 m (TLM 120).

Special overgrid versions available.

All types are fully compliant with safety standards BGV C1 (former VBG 70) and DIN 15560 T46. Registered type-approval code: 034505.



Part No
316.000
316.001

Fully automated monopole
with motorized yoke
and barndoors



Fully automated studio
at SWR (Germany)

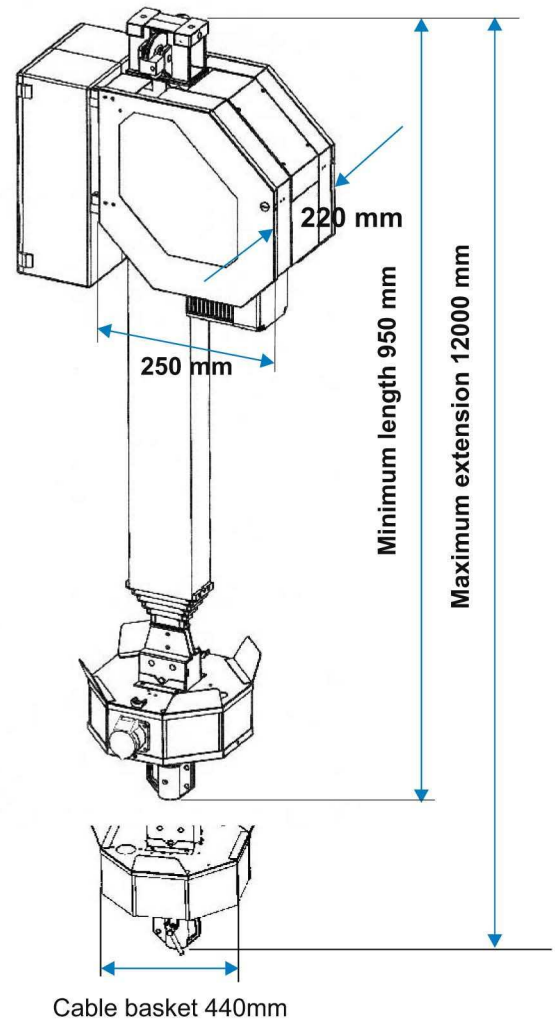


Payload up to 60 kg

Subject to change without prior notice

Technical Data

payload max. 60 kg (TLM 70)
 payload max. 50 kg (TLM 120)
 two supporting cables (Ø 2,8 mm diameter)
 tube material AlMgSi 0,5/F22
 hardness HB 2,5/62,5
 footprint of external tube: 120 x 68 mm
 radial deviation <math>< \pm 2^\circ</math>
 lifting speed approx. 135mm/s
 maximum extension: 7.0 m (TLM 70) or 12.0 m (TLM 120)
 length when folded completely: 950 mm
 dead weight: approx. 50 kg
 lifting noise approx. 48 dB(A)
 motor 3 x 230/400 V, 50 Hz, 0,4 kVA
 motor protected against thermal overload
 duty cycle 0,2
 motor's protection class IP 54
 torque 88 Nm
 Dynamically self-locking drive
 Self-lubricating (-30 °C to +150 °C)
 Cable-break and slack-cable detectors on each supporting cable
 Overload detection with load factor 1.2
 Detectors for the end of the upper and lower operating range
 Emergency switches for the end of the upper and lower maximum range
 Adjustable slopes for soft-start and stop
 Should a collision occur, monopole will move 60 mm in opposite direction
 Standard spirally-turned cable: 3 x 2,5 mm², 5 x 0,75 mm², 6 x 0,32 mm²
 Load attachment through DIN socket (Ø 29 mm)



Compliance-tested according to BGV C1

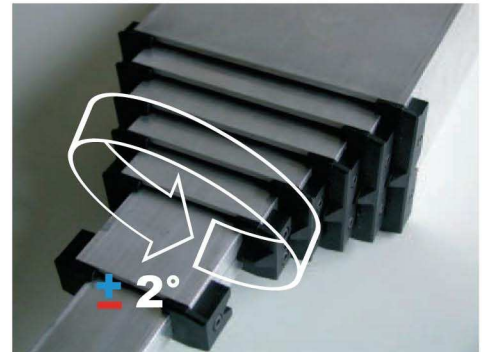
Cable-break and slack-cable detection using proximity switches.



Wear and tear-free mechanical overload detection. Can be adjusted from outside



Extremely precise tube guidance for minimal radial deviation



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