

AS500® FF Xenon Heavy Duty Work Lamps



AS500® FF Xenon is a compact and highly versatile, ultra heavy-duty work lamp for use on mining machinery, suitable for 24V and 12V electrical systems.

Good lighting is essential to create a safe and productive work area where machine operators can clearly see their work environment and identify any hazards in time to take the required action. The AS500 FF is engineered to deliver excellent lighting under continuous use in the extreme environmental conditions encountered in mining applications.

AS500 FF lamps employ Hella Free-Form optics to deliver an homogenous spread of light, enabling operators to see comfortably for long periods of time. The light distribution of the beam ensures an absence of sharp transitions from light to dark in the operator's visual field, thus significantly reducing adaptation related eye fatigue and stress.

The optical modules comprise of a precision-moulded specular reflector, permanently assembled to a corrosion-resistant hardened glass refractor lens and machined lamp holder, ensuring perfect focus of each unit. A choice of wide and narrow asymmetric beam types is available to suit different applications. (See technical section for more information on Hella's applications engineering service.)

The integrated, patented Hella MustADD® filter in the AS500 FF, ensures optimum optical performance is maintained over product life in the adverse atmospheres typically encountered in mining. (See technical section for more information.)

35W Xenon gas discharge lighting systems pioneered by Hella have set the standard across the world for delivering optimum visual acuity and comfort to professional work lamp users. The integral electronic ballast fitted to the AS500 FF range is specifically designed for continuous

operation in mining applications. (See technical section for more information.)

Safe and reliable electrical connection is facilitated via a short length of highly flexible double insulated cable, terminated with either DT or AMP connectors. Other connector options can be supplied as special orders.

An ergonomic heavy-duty cast aluminium body with an integral "non-snap" adjustment handle is the basis of all AS500 FF lights. A robust lens retaining ring with captive M4 Allen bolts enables rapid routine service access from the front, while high temperature O-ring seals ensure effective sealing. A UV resistant multi-stage powder coating process ensures optimal corrosion protection.

Accurate and stable aiming in a high vibration environment in all assembly positions is a vital aspect of good lighting. The AS500 FF offers a range of secure mounting options to suit almost any requirement. The standard trunnion bracket can be fitted to the body in six different mounting positions; all of which locate the axis of rotation in the centre of gravity to minimize mechanical stress. Four M6 Allen bolts in arced slots and fixed pivot points ensure that the aiming angle can be locked securely. Secondary mounting holes in the base of the AS500 FF enable direct mounting onto equipment, or the use of an optional pedestal bracket. The supplied heavy gauge stainless steel hardware is non-resonant and highly corrosion resistant. The AS500 FF features integral DRACO® dampers that eliminate all metal-to-metal contact between the lamp and bracket to reduce the intensity of shock and vibration communicated to the light. (See technical section for more information.)

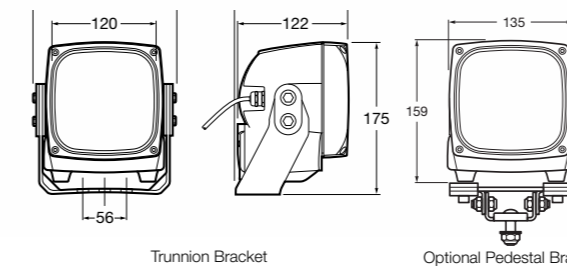
Sustainable use of resources and high ownership value is ensured through the modular system design, enabling AS500 FF users to re-use, repair, or recycle their lights into new applications. Ballasts can be replaced or exchanged to suit different supply voltage values. Both beam types and mounting bracket positions and options can be changed. Halogen models can also be upgraded to Xenon and other future options.

Product features

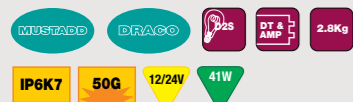
- Modular die cast aluminium alloy body
- Integral "non-snap" handle
- Multiple mounting options
- Stainless steel trunnion bracket with quad bolt fastening
- Draco® suspension
- Free-Form wide and narrow beam optics
- MustADD® filter
- Captive Allen bolts
- Double insulated silicone supply cable with DT or AMP plug
- Replaceable encapsulated ballast
- O-ring seals
- Components tested over a -40°C to +105°C temperature range
- High efficiency & long life D2S 35W Xenon light
- 12V DC & 24V DC options
- IP6K7K
- 200G shock resistant ballast
- 50G shock resistant lamp
- CE compliant
- Protective clear covers available
- Consumable spares interchangeable with Hella AS200FF® Xenon range



Multi-adjustable trunnion bracket ensures accurate and stable aiming in a high vibration environment in all assembly positions. Bracket locates the axis of rotation in the centre of gravity



Description	Part No.
Wide Beam 24V	HMADX35WBA
Narrow Beam 24V	HMADX35NBA
Wide Beam DT Plug 24V	HMADX35WBD
Narrow Beam DT Plug 24V	HMADX35NBD
Wide Beam 12V	HMAKX35WBA
Narrow Beam 12V	HMAKX35NBA
Wide Beam DT Plug 12V	HMAKX35WBD
Narrow Beam DT Plug 12V	HMAKX35NBD



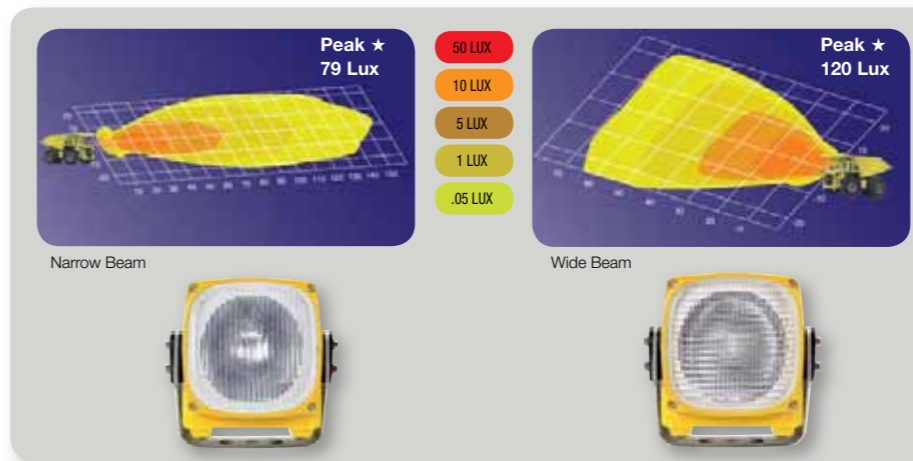
Spare Parts

Part No.	Description
HM8164	Clear Protective Cover AS500
9.HMAPEDL	Pedestal Mounting Bracket Assembly
9.HMATRUN	Trunnion Mounting Bracket Assembly
9.HMAWHKD	Cable harness kit AS500
9.HMASXWB	Insert - Wide Optic - AS200/500 GDL
9.HMASXNB	Insert - Narrow Optic - AS200/500 GDL
9.HMASXB24	Ballast - AS200/500 24V
9.HMASXB12	Ballast - AS200/500 12V
XN4000	Globe - Xenarc D2S



Clear cover to be ordered separately

HM8164



Front View



Optional Pedestal Bracket

AS500® FF Xenon - Pedestal Mount



Ultra heavy-duty AS500® FF Work Lamps now available with pedestal bracket.

AS500® FF work lamps create a safe and productive work area in which potential hazards can be identified fast. AS500® FF provides superior lighting under continuous use in the extreme environmental conditions encountered in heavy-duty mining applications.

Our range of highly versatile, ultra heavy-duty AS500® FF work lamps has been extended to include xenon lamp versions pre-assembled with non-resonant and highly corrosion-resistant stainless steel pedestal brackets.

Accurate and stable aiming in a high-vibration environment in all mounting positions is a vital aspect of good and safe work lighting.

Each AS500® FF pedestal mount work lamp is equipped with Hella's unique DRACO® vibration dampers. The mounting system eliminates all metal-to-metal contact between the lamp base and bracket to effectively reduce the intensity of shock and vibration passing from the mounting surface to the lighting equipment itself.

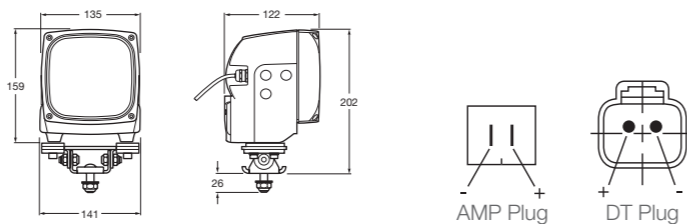
As with all other previous AS500® FF models, safe and reliable electrical connection is facilitated with a short length of highly flexible double insulated cable, terminated with either DT or AMP connectors.

Product Features

- Durable corrosion-resistant stainless steel pedestal bracket
- DRACO® Suspension
- Free-form wide and narrow beam options
- MustADD® multi air-filter
- IP6K7
- Double insulated silicone supply cable with DT or AMP plug
- O-ring seals
- Integral 'non-snag' handle
- Extremely robust die-cast aluminium alloy body

Specifications

Voltage	12/24V DC
Power Consumption	41W Max.
Peak Current	10A
Temperature Range	-40°C to 105°C
Lamp Type	D2S
Protection	IP6K7



Description Part No.

AS500® FF Xenon - 12/24V DC

Wide Beam AMP Plug 24V	HMPDX35WBA
Narrow Beam AMP Plug 24V	HMPDX35NBA
Wide Beam DT Plug 24V	HMPDX35WBD
Narrow Beam DT Plug 24V	HMPDX35NBD
Wide Beam AMP Plug 12V	HMPKX35WBA
Narrow Beam AMP Plug 12V	HMPKX35NBA
Wide Beam DT Plug 12V	HMPKX35WBD
Narrow Beam DT Plug 12V	HMPKX35NBD



Spare Parts

HM8164	Clear Protective Cover
9.HMAPEDL	Pedestal Mounting Bracket Assembly
9.HMATRUN	Trunnion Mounting Bracket Assembly
9.HMAWHKD	Cable Harness Kit
9.HMASXWB	Xenon Wide Beam Insert
9.HMASXNB	Xenon Narrow Beam Insert
9.HMASXB24	Xenon Ballast 24V DC
9.HMASXB12	Xenon Ballast 12V DC



Clear cover to be ordered separately

HM8164

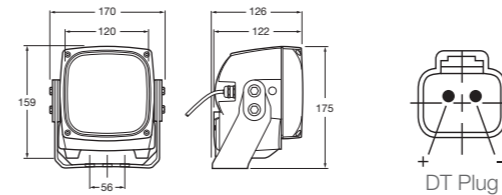
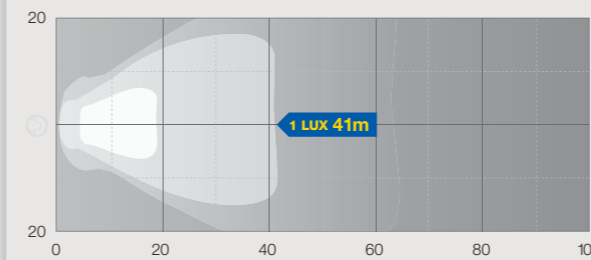
Description

Wide beam AS500® FF Xenon Work Lamp fitted with **amber coloured lens**. Double insulated silicone supply cable with DT plug. Specifically designed for low visibility or high glare environments with extreme fog or snow.

Voltage

24V DC

AS500 Amber XGD Wide Beam 2.5m high at 10°



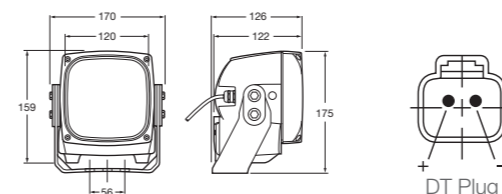
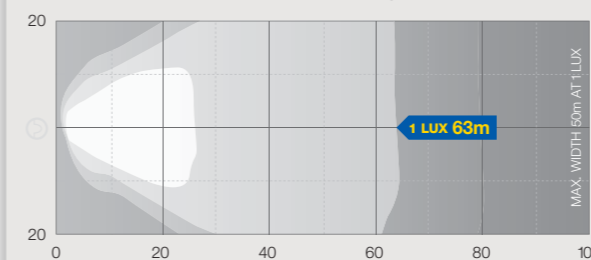
Description

Wide beam AS500® FF Xenon Work Lamp fitted with **yellow D2S globe**. Double insulated silicone supply cable with DT plug. Specifically designed for low visibility or high glare environments with extreme fog or snow.

Voltage

24V DC

AS500 Yellow XGD Wide Beam 2.5m high at 10°



HMXN4YEL

AS500® FF Xenon Work Lamp - Amber



Description

Part No.

Wide Beam DT Plug 24V, Amber	HMAX35WBDAMB
Wide Beam DT Plug 24V, Amber, Pedestal	HMPDX35WBDAMB



Spare Part

9.HMASXWBAMB Wide Beam Insert - Amber

AS500® FF Xenon Work Lamp - Yellow Light



Description

Part No.

Wide Beam DT Plug 24V, Yellow D2S	HMAX35WBDYEL
-----------------------------------	---------------------



Spare Part

HMXN4YEL Yellow D2S Xenon Globe