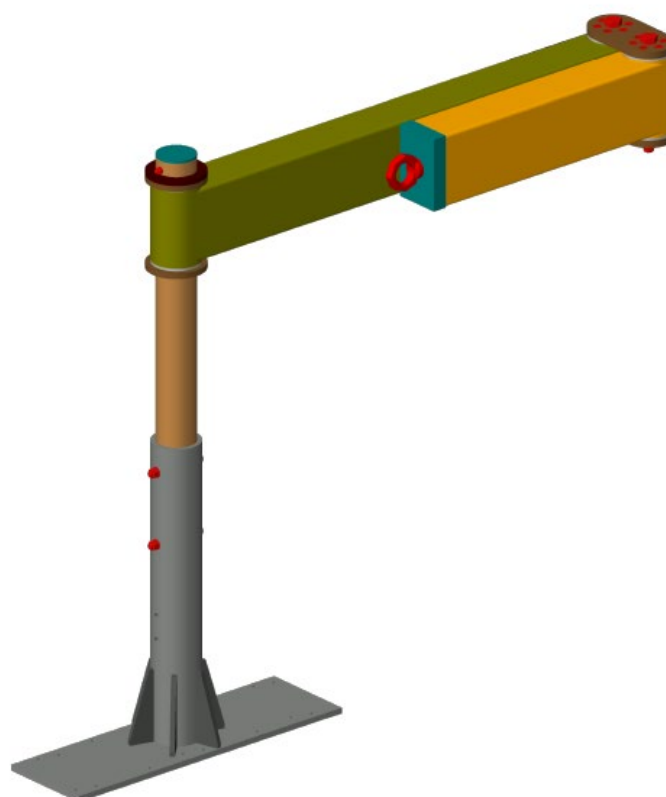
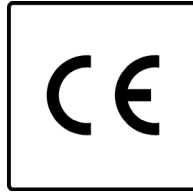


Serial number <b>All</b>	Confidential class <b>GREEN</b>	Tool PNA	Media number Pon Power PNA
Engine <b>All</b>	<b>ENGLISH</b>		Rev/date 01-25/06/2020

## Pon Norwegian Arm PNA

Swing arm  
WLL400KG/WLL125KG





**Pon Power  
PNA**

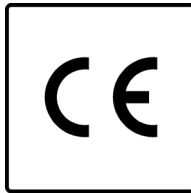
**EC-declaration of conformity**

**Pon Power declares that construction and manufacturing of this  
product comply with the following directive(1)**

**(1)  
Forskrift om maskiner 20 mai 2009 nr.  
544/Maskindirektivet 2006/42/EEC**

**Product name:  
Pon Norwegian Arm**

**Berger 25/06/2020  
Pon Power AS**



### **Pon Norwegian Arm**

<b>Manufacturer:</b>	<b>Pon Power AS</b>
<b>Product name:</b>	<b>Pon Norwegian Arm</b>
<b>Type designation:</b>	<b>PNA</b>
<b>Max. load:</b>	<b>WLL400KG/WLL125KG</b>
<b>Max. arm length WLL400KG:</b>	<b>1795 mm/1 joint</b>
<b>Max. arm length WLL125KG:</b>	<b>2495 mm/2 joint</b>
<b>Height adjustment:</b>	<b>200 mm + 150 mm, tot 350 mm</b>
<b>Weight:</b>	<b>160KG</b>

#### **About:**

#### **Pon Norwegian Arm**

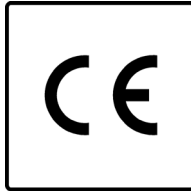
Pon Norwegian Arm - PNA - is a swing arm designed for use on Caterpillar engines for disassembly and assembly of engine components. The use depend of selected base mount. The base mounts are spesially designed for given enignes. For overview, see table 1.

The swing arm can be delivered in any wanted combination of swing arms and base mounts. The swing arms can be used in combination with lengths of 295 mm to 1795(2495) mm.

Max. load for arm length 1795/2495 mm is WLL400KG/WLL125KG. Note that WLL depend on used base mount. See overview table 1.

For control of free height for proper operation, see attached pictures.

See description for assembly and use of swing arm.



Use and maintenance:

- A) After use, clean all parts and check for damage. Look for cracks, deformation, wear etc. Also check that all mounting bolts are within specifications. When the swing arm are not in use, store the arm safely.
- B) If under operation, damage is seen that causes danger for further use, stop working, remove load safely and remove the swing arm from the engine. Necessary inspection and repair is to be performed by qualified personell.
- C) Control daily that the swing arm is in proper condition, all joints are lubricated and lifitng eye is undamaged. Verfiy that all labels and base mount information are intact and readable.

Safety instructions:

Do not overload max WLL. See base mount for max WLL, and instruction manual for WLL and arm length.

Position the load in a balanced position.

Never walk or work beneath suspended load.

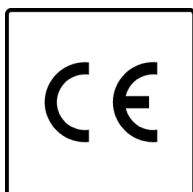
Only use the swing arm as described in the user manual.

Person lift not allowed.

Be aware of crush injury.

The swing arm must not be heat treated.

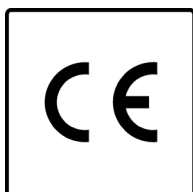
The swing arm must not be modified.



**Base mount installation:**

Base mount				
Part number	Engine	Description	Bolt for assembly	Bolt torque
PNA-B1	Base mount 3500 engines. WLL400KG	Center mount, need to remove AC.	6 pc 3/8"-1" UNC 10.9	47+/-9 NM
PNA-B2	Base mount 3500 engines. WLL125KG.	Mount on front housing RH/LH. Tilt option +/-15 degrees.	4 pc 1/2"-1" UNC 10.9	105+/-20 NM
PNA-B3	Base mount C32 engines. WLL400KG	Center mount front housing. Need removal of front lifting eye.	3 pc 12 point 1/2"-13x4 1/2" UNC 11.9	105+/-20 NM

**Table 1.**



## Parts:

Swing arm				
Part nb	Description	Comments	Weight	
PNA-M1	Joint	For use with two or three arms.	18 kg	
PNA-A1	Arm A1	Short outer arm, with lifting eye, length 269 mm.	10 kg	
PNA-A2	Arm A2	Long outer arm, with lifting eye, length 619 mm.	17 kg	
PNA-A3	Arm A3	Inner arm, length 545 mm.	15 kg	
PNA-A4	Arm A4	Inner arm, length 695 mm.	18 kg	
PNA-A5	Arm A5	Inner arm, length 1195 mm.	29 kg	
PNA-S1	Shaft	Working height 703/903/1053 mm	27 kg	
PNA-B1	Base mount 3500	Senter mounted, WLL400KG	29 kg	
PNA-B2	Base mount 3500	Front mounted, WLL125KG	22 kg	
PNA-B3	Base mount C32	Front mounted, WLL400KG	45 kg	

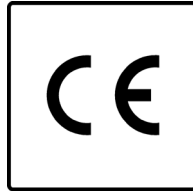
### NOTE:

#### WLL400KG:

All combinations of arm A1+A2+A3+A4+A5, max. arm length 1795 mm and one joint. Max. WLL depend on used base mount.

#### WLL125KG:

All combinations of arm A1+A2+A3+A4+A5, max. arm length 2495 mm and two joints. Max. WLL depend on used base mount.

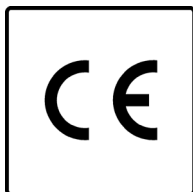


**Pon Power  
PNA**

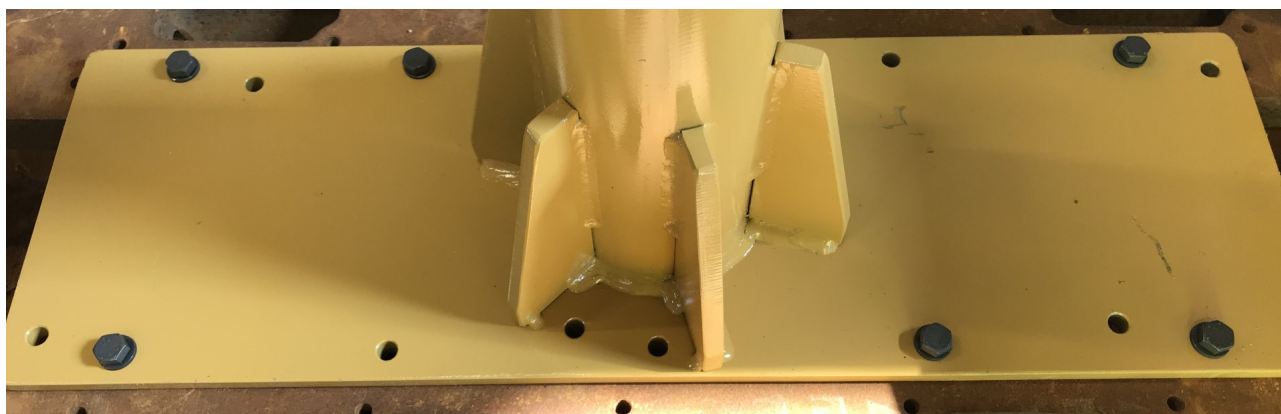
For spare parts, contact manufacturer.

Pon Power AS  
Bølerveien 60  
2020 Skesmokorset  
NORWAY  
+4723170500  
Email: [ppno.parts.power.no@pon.com](mailto:ppno.parts.power.no@pon.com)

NOTE:  
The swing arm need yearly certification.

**ASSEMBLY INSTRUCTIONS:**

For assembly, choose the best available base mount for your engine. The base mount must be installed according to required number of bolts and bolt torque listed in table 1. When multiple bolt locations can be used, position the bolts in a symmetrical pattern.



Choose best arm combination for your work and verify that WLL correspond with base mount used.

Three working heights can be choosed between 703/903/1053mm. Secure choosen height with bolts and locking pin.



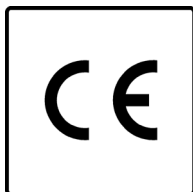


Lower the swing arm on the shaft. Secure with bolt and locking pin.



Joint lowers throught the swing arms from top. Install plate bottom and secure with bolts, washers, nuts and locker pins.



**Special Instruction:**

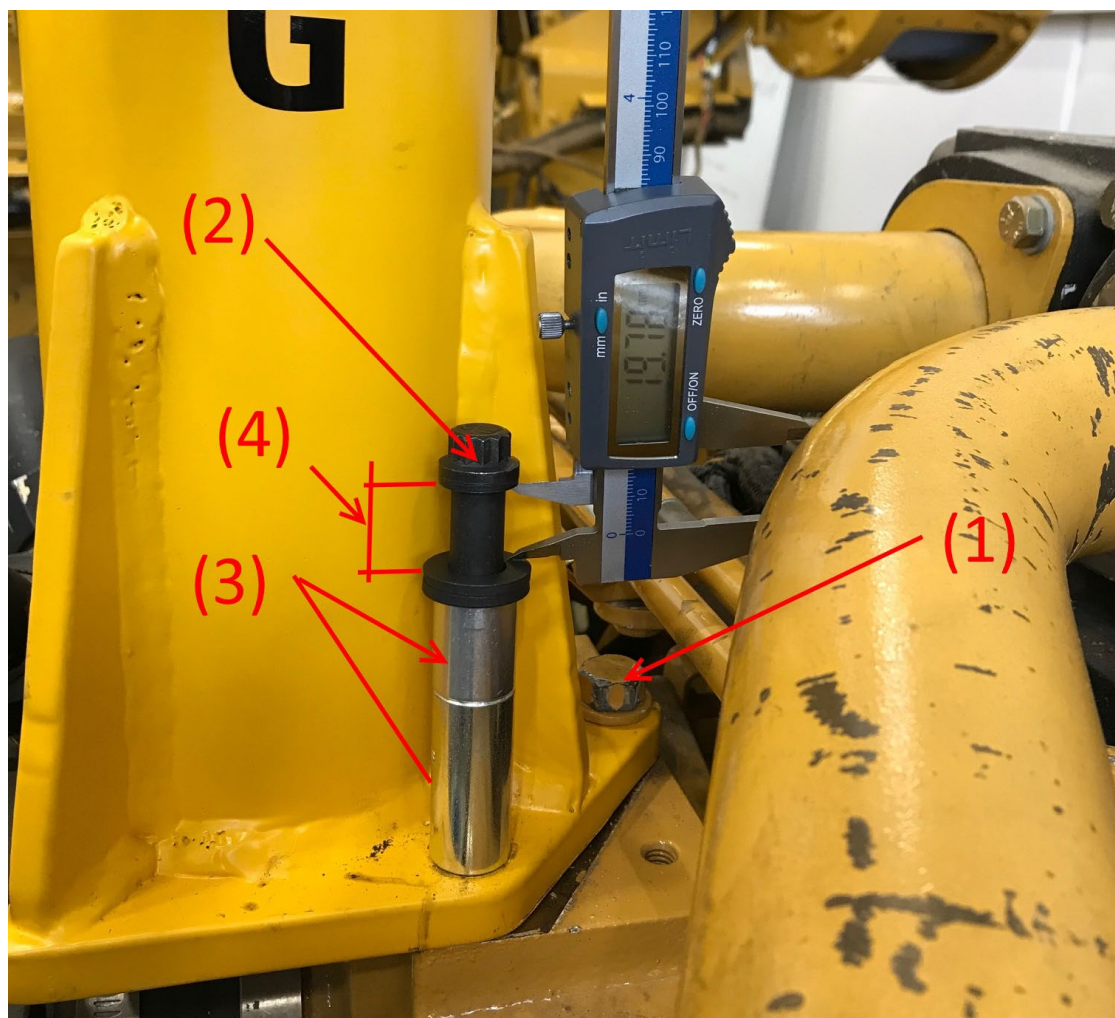
Installation of PNA-B3, center mounted base for C32.

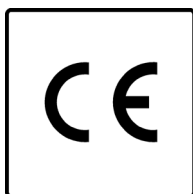
There are different equipment attached to the C32 front housing depending on engine configuration. Engine lifting eye needs to be removed before installation of PNA-B3. If remaining equipment can be removed, this will secure the best installation of PNA-B3.

To maintain correct bolt clamping force when installation of PNA-B3, perform the following steps:

- 1: Put PNA-B3 in correct position for installation. Secure PNA-B3 temporary with one of the removed bolt (1) for the engine lifting eye.
- 2: Install required 12 point bolt (2) together with spacer (3) in one of the remaining bolt holes. At this point do not engage the bolt to the threads in the front housing.
- 3: Measure the free length between the bolt head and spacer (4). This must be 20 +/- 1mm. If this is not achieved, adjust with new spacer or add washer.
- 4: When correct combination of bolt/spacer/washer is determined, install 3 sets of this combination and torque bolt to correct value.

**NOTE:** After installation of bolts required for PNA-B3 a minimum of 20 +/-1mm of the bolt threads needs to be engaged in the front housing.  
Bolt spacers needs to be installed.



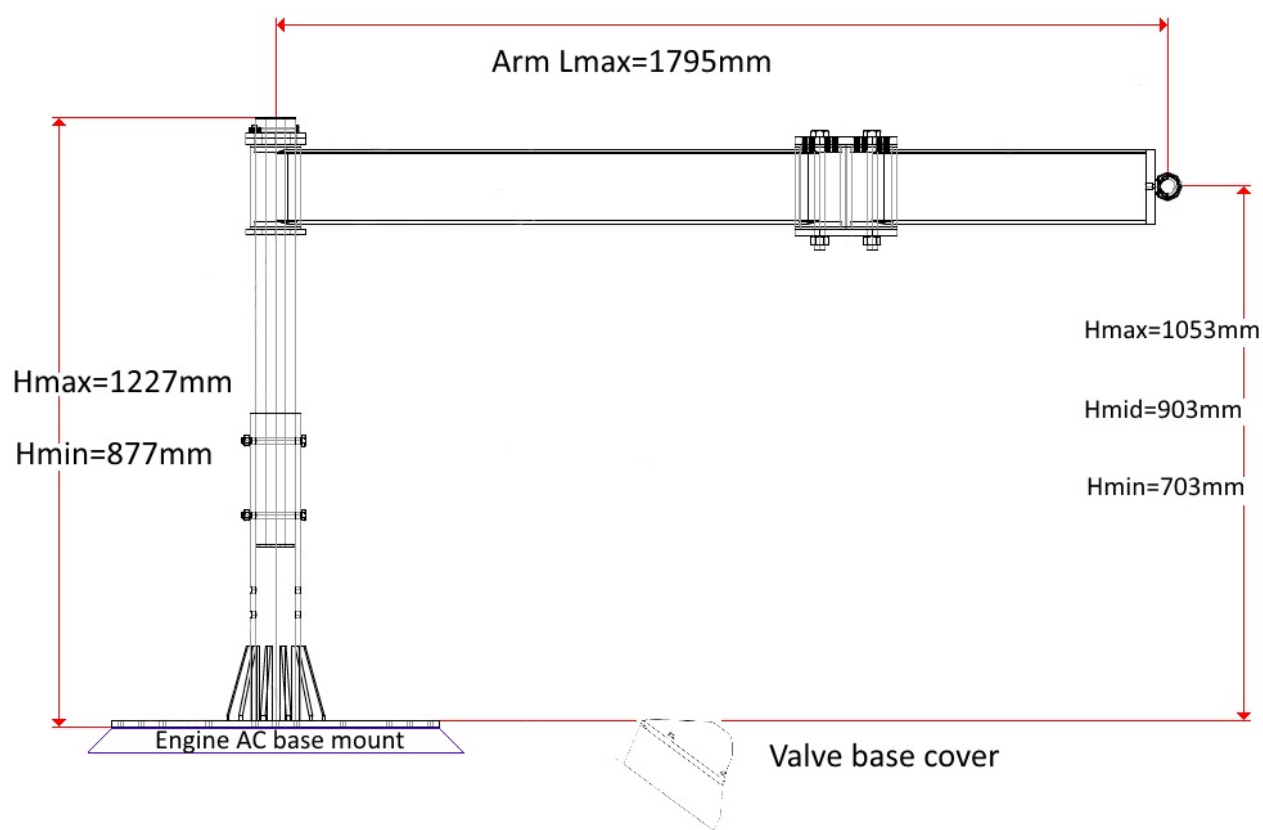


**Dimensions:**

3500 engine.

PNA-B1 center mouted base plate, used on engine AC base mount.

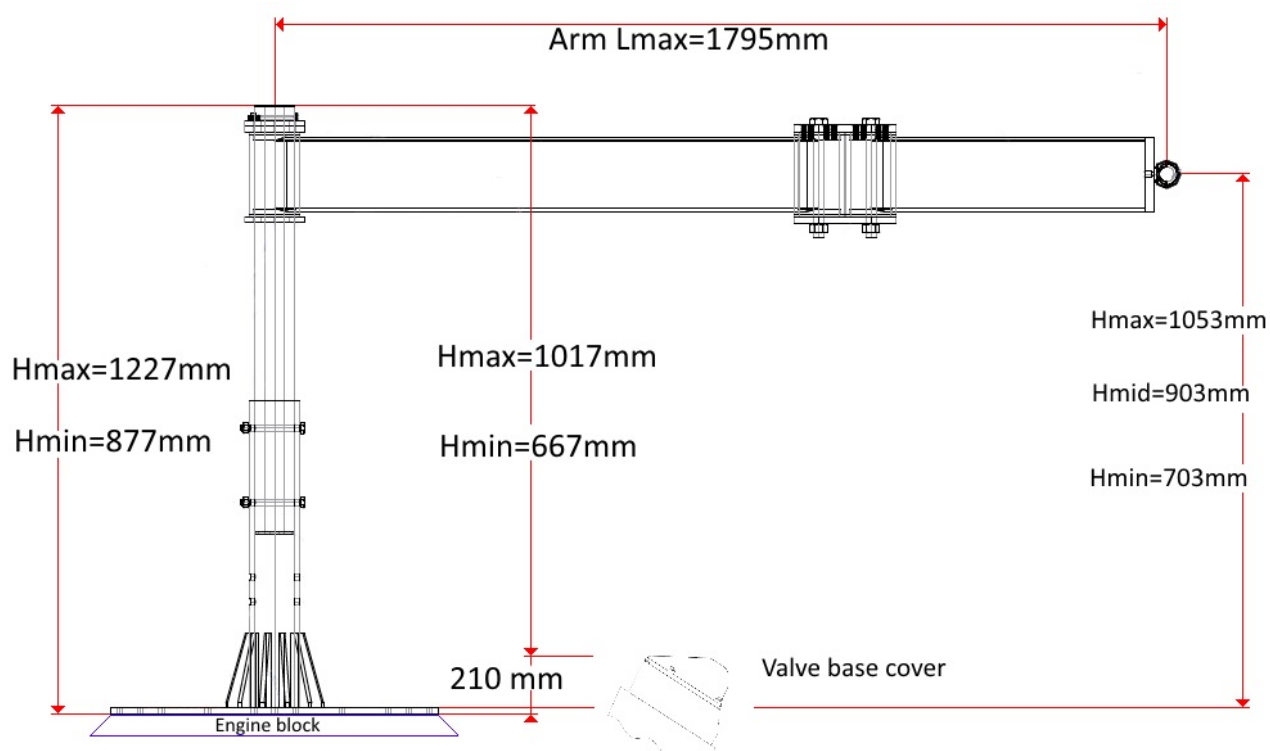
WLL400KG



3500 engine.

PNA-B1 center mouted base plate, used on engine block.

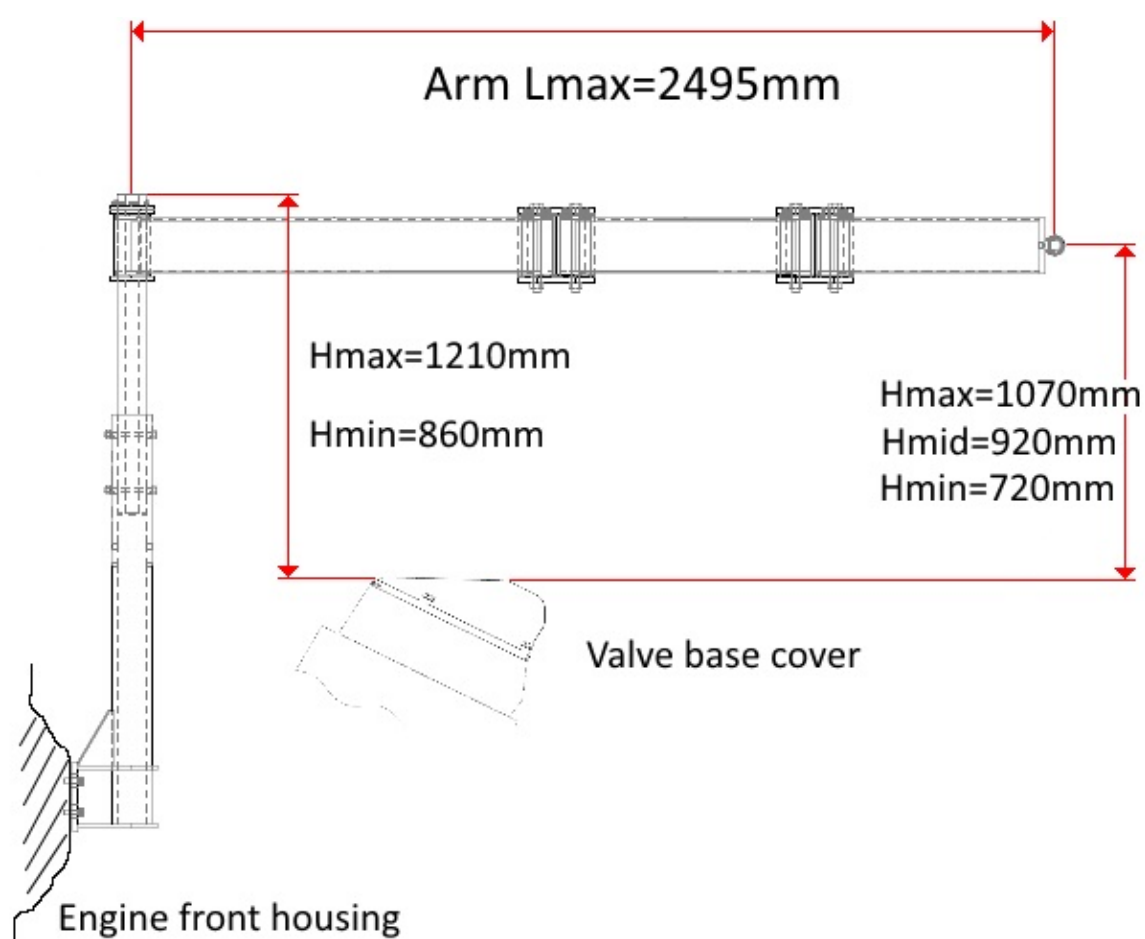
WLL400KG



3500 engine.

PNA-B2 front base mount.

WLL125KG



C32 engine.

PNA-B3 front base mount

WLL400KG

