

# HuckForce Powerig™ Range from Alcoa Fastening Systems

Engineered Power for Your Control



[www.afshuck.net](http://www.afshuck.net)



# Powerig™ Model Selection Summary

Model	HuckForce Range			Field Based Powerigs		
	Standard	Advanced	Premium	Diesel	Petrol	Single phase
Max Flow (L/MIN)	2.8	3.2	3.2 / 6.8 / 8.1	1.22	Two Stage: 3.71 @ 0-28 BAR 0.51 @ 700 BAR	1.5
Max Pressure (BAR)	535	600	700	700	700	600
Motor Power (kW)	1	2.2	2.2 / 7.5 / 8.6	4.7	1.6	1.5
Pump Type	Gear / Radial Piston	Radial Piston	Radial Piston	Axial 4 Piston	Piston 2 Stage	Radial Piston
Oil Filter (µm)	60	10	10	N/A	N/A	12
Oil Reservoir Capacity (L)	5	6.9	50	14	6.1	3.7
Dimensions (L cm x W cm x H cm)	58 x 40 x 80*	72 x 50 x 80	71 x 59 x 116**	85 x 65 x 75	34.3 x 26.4 x 37.8	58x43x29.5
Weight (kg) Approx with oil	54	97	332	158	15	54
Outlets	1	1	1 or 2	1	1	1
Customised Accessories	N/A	N/A	Yes	Yes	Yes	N/A
SureSet	N/A	Optional	Optional	N/A	N/A	N/A

\* Includes handle. \*\*Without wheels

Alcoa Fastening Systems HuckForce Powerig™ model selection depends on fastener type, diameter, installation rate, mobility of the rig, number of tools to be powered and assurance of installation. At the heart of all HuckForce Powerigs is the modular Monoblock valve system for safe and reliable operation, however demanding your application is.

Our range of AFS Powerigs are designed and engineered for **all** Huck brand fasteners, including BobTail and incorporates the safety and reliability of the modular Monoblock valve system, used in all Alcoa Fastening Systems HuckForce Powerigs.

## HuckForce Standard

KA28-001



### Key Features

- ▶ 535 BAR max pull pressure with 1.0 kW motor.
- ▶ Engineered for low to medium use applications with max flow of 2,8 L/MIN.



<b>Part Number</b>	KA28-001
<b>Options</b>	001 = 1 Outlet
<b>Pump</b>	Max Flow 2,8 L/MIN Pull Pressure 535 BAR (Max)
<b>Power</b>	3 x 400V AC (NOMINAL) 50 Hz

## HuckForce Advance

HK32-001 & HK32-002

### Key Features

- ▶ Mid level 600 BAR max pull pressure with 2.2 kW motor.
- ▶ Engineered for medium use applications with max flow of 3,2 L/MIN.
- ▶ SureSet option available.



Image: HuckForce Advance with SureSet option



<b>Part Number</b>	HK32-001 or HK32-002
<b>Options</b>	001 = 1 Outlet with SureSet 002 = 1 Outlet
<b>Pump</b>	Max Flow 3,2 L/MIN Max Pull Pressure 600 BAR
<b>Power</b>	3 x 400V AC (NOMINAL) 50 Hz

## HuckForce Premium

Tailored specifically to your requirements+



### Key Features

- ▶ Heavy duty 700 BAR max pull pressure with 3 motor power options.
- ▶ Engineered for the most demanding high use applications with 3 pump flow rate options.

<b>Part Number</b>	MP( )-00( )-000( )	<b>Pump No. &amp; Description</b>	<b>32 :</b> Max Flow 3,2 L/MIN Pull Pressure 700 BAR (Max) 3 x 400V AC (NOMINAL) 50 Hz
<b>Part Number Explanation</b>	MP( )-00( )-000( ) A B C		<b>68 :</b> Max Flow 6,8 L/MIN Pull Pressure 700 BAR (Max) 3 x 400V AC (NOMINAL) 50 Hz
	A. Pump Number (32 / 68 / 81) B Option (001 / 002 / 003 / 004) C. Accessory number provided by Alcoa Fastening Systems		<b>81 :</b> Max Flow 8,1 L/MIN Pull Pressure 700 BAR (Max) 3 x 400V AC (NOMINAL) 50 Hz
<b>Options</b>	<b>001</b> - 1 Outlet (standard option) <b>002</b> - 2 Outlets <b>003</b> - 1 outlet + Sureset <b>004</b> - 2 outlets + Sureset		

+ See back page for more details

## HuckForce SureSet™ Option

Huck developed the SureSet system to check the integrity of every fastener installed during the installation process. Sensors built into the Powerig measure the load and piston movement (converted from hydraulic fluid pressure and flow respectively) during the installation. The data processing unit (DPU) uses this information to detect whether the fastener has been installed correctly.

### Key Features

- ▶ Precise, reliable measurement of every fastener installation.
- ▶ No need for time consuming calibrations each time a tool is changed.
- ▶ System can be configured to enable use of audible alarm and system lockout features, should incorrect installations be indicated.
- ▶ SureSet can be programmed to be used with up to 32 different Huck fasteners at any one time.
- ▶ Each programme can be user defined to ensure maximum control over the installation process.
- ▶ High speed transfer of installed fastener data available.



For more information on the SureSet system visit [www.afshuck.net/sureset](http://www.afshuck.net/sureset)

## Field Based Powerigs

### Key Features

- ▶ Allows installation in any environment without requiring a 3 phase power supply utilising diesel fuel.
- ▶ Engineered for rail track, bridge, construction, fencing and maintenance/repair applications.
- ▶ Equipped with 12 Volt Battery.
- ▶ Electric Key Start.
- ▶ Engine and Pump run continuously.

### Petrol

PP275/40(V2)



### Key Features

- ▶ Compact lightweight design for low volume production
- ▶ 600 bars max pull pressure with 1.5KW Motor
- ▶ Power Supply : Single Phase 50 Hz 230V or 110V

### Diesel

911D(V2)



### Key Features

- ▶ Compact lightweight 4 stroke petrol engine, manual valves.
- ▶ Ideal alternative to handpump for rail track work.
- ▶ Can also be used for cold hole expansion with Huck Tooling.

### Single phase

HK3413



# About Us

For more than 60 years, the business Lou Huck founded and the fasteners he designed are still solving the problem of coping with extreme stress and vibration, providing strength and facilitating lighter, stronger more durable structures. With production resources across the globe, AFS provide engineered, high-quality, high performance fastening systems for a variety of industrial applications.

+ Please contact Alcoa Fastening Systems for a detailed review of your requirements, including customer specific accessories so the appropriate Powerig and associated Huck installation tools can be selected and priced accordingly.

## Contact Us

Alcoa Fastening Systems  
Telford Operations,  
Unit C, Stafford Park 7  
Telford  
TF3 3BQ  
England

**Tel:** +44 (0) 1952 290011  
**Fax:** +44 (0) 1952 204670  
**Email:** [info@afshuck.net](mailto:info@afshuck.net)  
**Web:** [www.afshuck.net](http://www.afshuck.net)



Alcoa Fastening Systems  
Kelkheim Operations,  
Industriestr. 6  
65779 Kelkheim  
Germany

**Tel:** +49 (0) 6195 8050  
**Fax:** +49 (0) 6195 2001

Alcoa Fastening Systems  
St Cosme Operations,  
9 rue de Cressonnières  
72110 Saint Cosme en Vairais  
France

**Tel:** +33 (0) 24331 4100  
**Fax:** +33 (0) 24331 4141



### Disclaimer:

The information contained in this publication is only for general guidance with regard to properties of the products shown and/or the means for selecting such products, and is not intended to create any warranty, express, implied or statutory; all warranties are contained only in AFS's written quotations, acknowledgments, and/or purchase orders. It is recommended that the user secure specific up-to-date data and information regarding each application and/or use of such products.

