EXCAVATOR HOOK - VCGH-S



Complies with the machinery directives 2006/42/EC











NB: Please ensure that the safety instructions have been fully read and understood before initial use of the ABA weld-on lifting point. Failure to do so may result in serious injuries and/or material damage and eliminates manufacturers warranty.

User Instructions - Part 1

Safety instructions

This safety instruction/declaration of the manufacturer must be kept on file for the lifetime of the product.

ATTENTION: Please inspect all lifting points prior to use. Damage, incorrect assembly or improper use can result in serious injuries and/or material damage.

EC-Declaration of the manufacturer

According to the Machinery Directive 2006/42/EC, annex II B and amendments.

We hereby declare that the design and construction of the equipment detailed within this document, adheres to the appropriate level of health and safety of the corresponding EC regulation.

Any un-authorised modification and/or any incorrect use of the equipment not adhered to within these user instructions waivers this declaration invalid.

The equipment must be regularly tested and inspected as per BGR 500. Failure to carry out the recommended maintenance and testing waivers this declaration invalid.

Designation of the equipment:

Type: Excavator hook for welding - VCGH-S

Manufacturer's mark: (3)

Drawings (iges, dxf and step), product information and other support material can be downloaded from www.rud.com.au.

	EC-Declaration of	conformity		
		Market Stranger (Mr. • X		
According to th		6/42/EC, annex II A and amendments		
Manufacturer:	RUD Ketten Rieger & Dietz GmbH u. Co. KG Friedensinsel 73432 Aalen			
as mentioned below, con health of the correspond mentioned harmonized a	responds to the appropriate, t ing EC-Machinery Directive 20 and national norms as well as	nuse of its design and construction, assic requirements of safety and 1006/42/EC as well as to the below technical specifications. a greed upon with us, this declara-		
Product name:	Bolt on / Weld on hook			
	VABH-B / VABH-W / VCGH-G	/ VCGH-S		
		1 10 10 10 10 10 10 10 10 10 10 10 10 10		
The following national ne	orms and technical specifications	were applied:		
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EXCAVATOR HOOK - VCGH-S

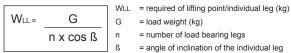


User Instructions - Part 2

- **1.** Reference should be made to relevant standards and other statutory regulations. Inspections should be carried out by competent persons only.
- **2.** Before installing and at every use, visually inspect RUD lifting points, with particular attention to any evidence of weld cracks, corrosion, wear, deformations, etc.
- **3.** The material construction to which the lifting point will be attached should be of adequate strength to withstand forces during lifting without deformation. The contact areas must be free from inpurities, oil, colour, etc. Preheat the structure according to AS 1554 if required.

The Material of the welding plate is S355J2G3 (1.0577+N (St52-3) \approx AS3678 GR350.

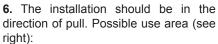
- **4.** The lifting points must be positioned on the load in such a way that movement is avoided during lifting.
- a.) For single leg lifts, the lifting point should be vertically above the centre of gravity of the load.
- b.) For two leg lifts, the lifting points must be equidistant to/or above the centre of gravity of the load.
- c.) For three and four leg lifts, the lifting points should be arranged symmetrically around the centre of gravity in the same plane.
- **5.** Load Symmetry: The working load limits of individual RUD lifting points are calculated using the following formula and are based on symmetrical loading:

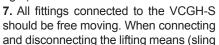


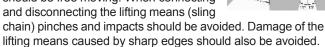
NOTE: For WLL Calculations

• ß angle is taken from the vertical plane.









8. Effect of temperature: During use in overheated areas the WLL of the VABH-W has to be reduced according the chart:

-10° up to 200°C no reduction

200° up to 300°C minus 10% (392°F up to 572°F) 300° up to 400°C minus 25% (572°F up to 752°F)

Temperatures above 400°C (752°F) are not allowed.

- **9.** The places where the lifting points are fixed should be marked with colour.
- **10.** RUD-Lifting points must not be used under chemical influences such as acids, alkaline solutions and vapours e.g. in pickling baths or hot dip galvanising plants. If this cannot avoided, please contact the manufacturer indicating the concentration, period of penetration and temperature of use.
- **11.** If the lifting points are used exclusively for lashing the value of the working load limit can be doubled.

 $LC = 2 \times WLL$

12. After welding, an annual inspection or sooner if conditions dicate should be undertaken by a competent person examining the continued suitability. Also after damage and special occurrences.

Inspection criteria regarding paragraphs 2 and 14:

- · The lifting point should be complete.
- The working load limit and manufacturers stamp should be clearly visible.
- Deformation of the component parts such as body and load ring.
- Mechanical damage, such as notches, particulary in high stress areas.
- Wear should be no more than 10% of cross sectional diameter.
- Evidence of corrosion.
- · Evidence of cracks.
- · Cracks or other damages to the welding.

Any non-adherence to this advice may result in damages of persons and/or materials!



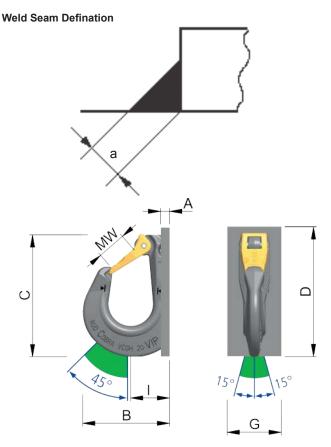
User Instructions - Part 3

Туре	Size	Approx
		Volume
VCGH-S 16	a = 5	ca. 42.5 cm³
VCGH-S 20	a = 5	ca. 52.0 cm ³
VCGH-S 22	a = 5	ca. 56.0 cm³

Table 1

WORKING LOAD LIMITS (G - in tonnes)						
	Single Leg	2 , 3 or 4 Legs				
PRODUCT DESCRIPTION	Ġ G		G			
		60° Maximum I	90° Included Angle	120° e (Degrees)		
VCGH-S 16	10.0	17.3	14.1	10.0		
VCGH-S 20	16.0	27.7	22.6	16.0		
VCGH-S 22	20.0	34.6	28.2	20.0		

Table 2



Туре	WLL (t)	MW	А	В	С	D	G	I	Weld (a)	Weight (kg)	RefNo.
VCGH-S 16	10	48	15	141	200	220	100	70	8	5	7984047
VCGH-S 20	16	63	20	187	272	288	120	87	8	8.4	7984310
VCGH-S 22	20	63	20	195	276	292	120	92	8	14.5	7984312

Table 3

WELDING PROCESS				
MILD STEEL / LOW ALLOYED STEEL				
MIG GAS SHIELDED WIRE WELDING	AWS A5.18 eg: WIA - Austmig ES6 or Hobart XL 525) or equivalent. (Flux Cored for material >24mm).			
MMA MANUAL ELECTRIC WELDING	AWS A5.5 : E8018-G. AWS A5.1 : E7018. eg: WIA - Austarc 16TC or Weldwell PH77 or equivalent.			
NB. Please refer to the consumables manufacturer for user instructions and further information.				

Table 4

Welding Sequence

The welding should only be carried out by an authorised welder, according to AS1554 or EN287 or relevant AWS Standards.

- 1 Prepare surface and ensure all contact areas are clean. Check preparation and welding consumables for conformance.
- 2 Carefully clean the root run before carrying out subsequent runs.
- 3 Apply fillet weld (see above table 1). The welding process must not be interrupted for such a time that the welding plate loses the welding temperature.





