POWERPOINT® WPP/ WPPH/ WPPH-VIP

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 Power Point[®] WPP / WPPH / WPPH-VIP 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 may 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: Power Point[®] WPP / WPPH / WPPH-VIP weld-on lifting point

Manufacturer's mark: (#)

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

	EC-Declaration	of conformity
According to th		006/42/EC, annex II A and amendments
Manufacturer:	RUD Ketten Rieger & Dietz GmbH u. Co. KG	
	Friedensinsel 73432 Aalen	
	73432 Aalen	
We hereby declare that t	he equipment sold by us be	cause of its design and construction,
as mentioned below, con	responds to the appropriate	basic requirements of safety and 2006/42/EC as well as to the below
mentioned harmonized a	ind national norms as well a	is technical specifications.
In case of any modificati tion becomes invalid.	on of the equipment, not be	ing agreed upon with us, this declara-
Product name:	Lifting point PowerP	oint
	PP / WPP / WPPH	
The following harmonize		
	EN 12100-1	EN 12100-2
	EN 14121-1	EN 1677-1
	EN 1677-4	
The following national no	BGR 500, KAP2.8	ns were applied:
	DOR 000, 19952.0	
Authorized person for the	e configuration of the declarati Reinhard Smetz, RUD	
Aalen, 29.12.2009	Dr. Ing. Rolf Sinz. (Proj	wist (QMB) Dr. Our
	Name, function and signal	ture of the responsible person

For further information on our complete range of products and services please visit our website at www.rud.com.au

POWERPOINT® WPP/WPPH/WPPH-VIP

User Instructions - Part 2

The weldable RUD PowerPoint[®] is available in 2 different versions; >WPP< turnable and >WPPH< fixed.

Both can be assembled with the components:

WPP-S: the standard version

WPP-B: the lifting ring version for hook assemblies WPP-VIP: the direct chain connection

Attention: Other combinations with non RUD lifting components may be dangerous! These are not permitted and RUD will not accept any warranty claim.

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 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.

The material of the forged welding part is 1.6541 (23MnNiCrMo52)

4. The lifting points must be positioned to the load in such a way that movements are 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 symmetrical around the centre of gravity in the same plane if possible.

5. Load symmetry: The required WLL of the individual RUD lifting point are calculated using the following formula and are are based on symmetrical loading:

WLL= G		WLL	= required of lifting point/individual leg (kg)
		G	= load weight (kg)
n x cos ß		n	= number of load bearing legs
		ß	= angle of inclination of the individual leg

NOTE: For WLL Calculations



ß angle is taken from the vertical plane. Included angle is the angle between the sling legs.

6. Safety: When lifting points are used in a multileg assembly, care should be taken to calculate the WLL (Working Load Limit) due to the deration caused by forces acting in multiple directions. The reduction in WLL (Working Load Limit) for multileg assemblies should be checked with relevant Standards e.g. AS 3775-2004 - Chain Slings-Gr t (8)

The lifting points should be mounted in such a way that they may easily be accessed for inspection and assembly/ disassembly of the sling.

7. The type WPPH-VIP (rigid, with VIP clevis connection) has to be aligned in regard of the vertical slot for the chain link, when used in multiple leg usage with inclination angle, straight into the direction of pull.



8. All fittings connected to the PP-versions should be free moving. Also, the assembled

components on the PP must be free moveable and should not be used over sharp corners. When connecting and



disconnecting the lifting means (wire ropes, chain slings, roundslings) pinches and impacts should be avoided. Damage of the lifting means caused by sharp corners should also be avoided. Before lifting, the hooks must be installed without twists in the direction of pull.

9. Effect of temperature: During use in overheated areas the WLL of the PowerPoint® has to be reduced according as follows:

 -10° up to 200°C
 no reduction (14°F up to 392°F)

 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.

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 be 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 inspect after damage and special occurrences.

Inspection criteria regarding paragraphs 2 and 12:

- The lifting point should be complete
- The WLL batch code and manufacturers stamping should be clearly visible on the lifting point.
- Deformations of the components parts such as body and fittings.
- Mechanical damages such as notches, especially in high stress areas.
- Wear should be not more than 10% of cross sectional diameter.
- Evidence of corrosion.
- · Evidence of cracks.
- · Cracks or other damages to the welding.
- The upper fork head part of the PP-version >WPP< must rotate smoothly.
- The PP-version >WPP< should only be used within the nom WLL. See RUD chart.
- Due to double bearing races, proof testing is not suitable for the PowerPoint range. Testing should be MPI (magnetic Partical Inspection) and visual.
- The maximum gap between upper- and lower part of the PowerPoint® >WPP< must not be exceeded:

PP0.63t up to PP2.5t	max. 1.5 mm
PP4t up to PP8t	max. 2.5 mm

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

User Instructions - Part 3

WELDING SIZE			
	size	volume approx cm³	
WPP0.63t	∖ 3.5	2.3	
WPP1.5t	⊾ 4.5	3.2	
WPP2.5t	(HV) 3 + (a) 5	5.0	
WPP4t	(HV) 3 + (a) 6	8.0	
WPP5t	(HV) 3 + (a) 8	13.0	
WPP8t	(HV) 3 + (a) 10	23.3	
WPPH0.63t	∖ 3.5	2.0	
WPPH1.5t	⊾ 4.5	2.8	
WPPH2.5t	(HV) 3 + (a) 5	4.5	
WPPH4t	(HV) 3 + (a) 6	6.8	
WPPH5t	(HV) 3 + (a) 8	11.4	
WPPH8t	(HV) 3 + (a) 10	20.6	
Table 1			

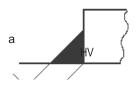
The welding should only be carried out by an authorised welder, according to AS1554 or EN287 or relevant AWS Standards.

- 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 table 1). The welding process must not be interrupted for such a time that the welding blocks lose the welding temperature.

Attention: Do not weld on the connecting elements (eyehook, chain, ovallink etc.)

Welding size definition:

measurements "HV" and "a" have to be according to weld size chart.



		WORKING LOAD LIMITS (G - in tonnes)					
		Single Leg	Single Leg	2, 3 or 4 Legs			
PRODUCT DESCRIPTION		¢ G	G	Maximum 60°	G Included Angle	(Degrees) 120°	
	0	POWERPOINT - SWIVELLING			60°	90°	120°
	5	WPP-S / WPP-B / WPP-VIP	0.63	0.63	1.1	0.89	0.63
		WPP-S / WPP-B / WPP-VIP	1.5	1.5	2.6	2.1	1.5
WPP-S WPP-B WPP-VIP	WPP-S / WPP-B / WPP-VIP	2.5	2.5	4.3	3.5	2.5	
	WPP-S / WPP-B / WPP-VIP	4.0	4.0	6.9	5.6	4.0	
	WPP-S / WPP-B / WPP-VIP	6.7	5.0	8.6	7.0	5.0	
	WPP-S / WPP-B / WPP-VIP	10.0	8.0	13.8	11.3	8.0	
		POWERPOINT - FIXED			60°	90°	120°
	ų ų	WPPH-S / WPPH-B / WPPH-VIP	0.63	0.63	1.1	0.89	0.63
	WPPH-S / WPPH-B / WPPH-VIP	1.5	1.5	2.6	2.1	1.5	
	WPPH-S / WPPH-B / WPPH-VIP	2.5	2.5	4.3	3.5	2.5	
	WPPH-S / WPPH-B / WPPH-VIP	4.0	4.0	6.9	5.6	4.0	
WPPH-S		WPPH-S / WPPH-B / WPPH-VIP	6.7	5.0	8.6	7.0	5.0
	WPPH-VIP	WPPH-S / WPPH-B / WPPH-VIP	10.0	8.0	13.8	11.3	8.0

Table 2

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).	
MMAAWS A5.5 : E8018-G. AWS A5.1 : E7018.MANUAL ELECTRIC WELDINGeg: WIA - Austarc 18TC or Weldwell PH77 or equivalent.		
NB. Please refer to the consumables manufacturer for user instructions and further information.		

User Instructions - Part 4

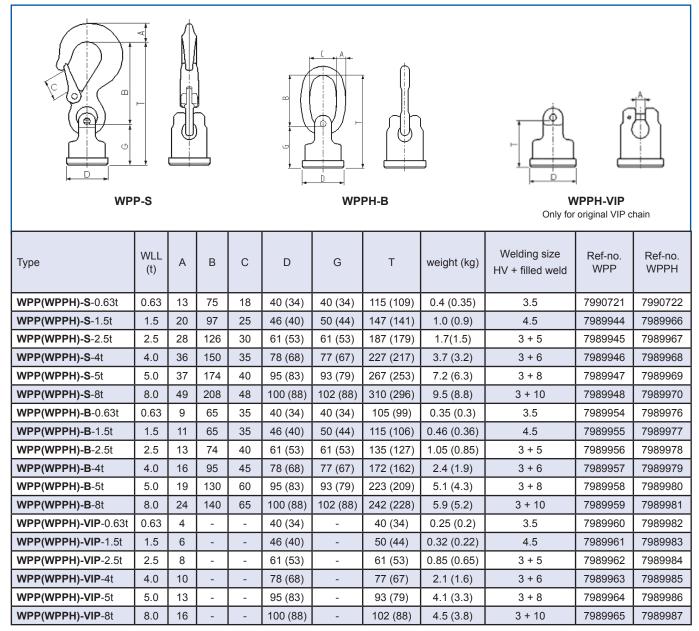


Table 4

() = dimesions for WPPH



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