

Risk Assessment



Diamond Portable Electric DBR-32HD REBAR BENDER & STRAIGHTENER

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Document Control

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Purpose & Task

Scope

This document is intended to provide an assessment of possible hazards and risks associated with the operation of a Diamond Portable Electric **DBR-32HD** Rebar Bender & Straightener

People at Risk

Persons operating the machinery, co-workers and people entering the area of work

Prerequisites & Recommendations

Manufacturer Documentation

- All operators must be familiar with;
- Diamond Rebar Bender and Straightener Handling and Operating Instructions Manual incorporating the requirements for the DC-32WH Model
 - MSDS for Hydraulic Oil (Shell Tellus 32)

Standards, Guides & Reference Material

- Local or State WH&S Acts or Standards
- National Code of Practice for Manual Handling (NOHSC:2005(1990), 4.6 Actions & Movements (if doing repetitive tasks)
 - Safe Work NSW Code of Practice – Hazardous Manual Tasks September 2016

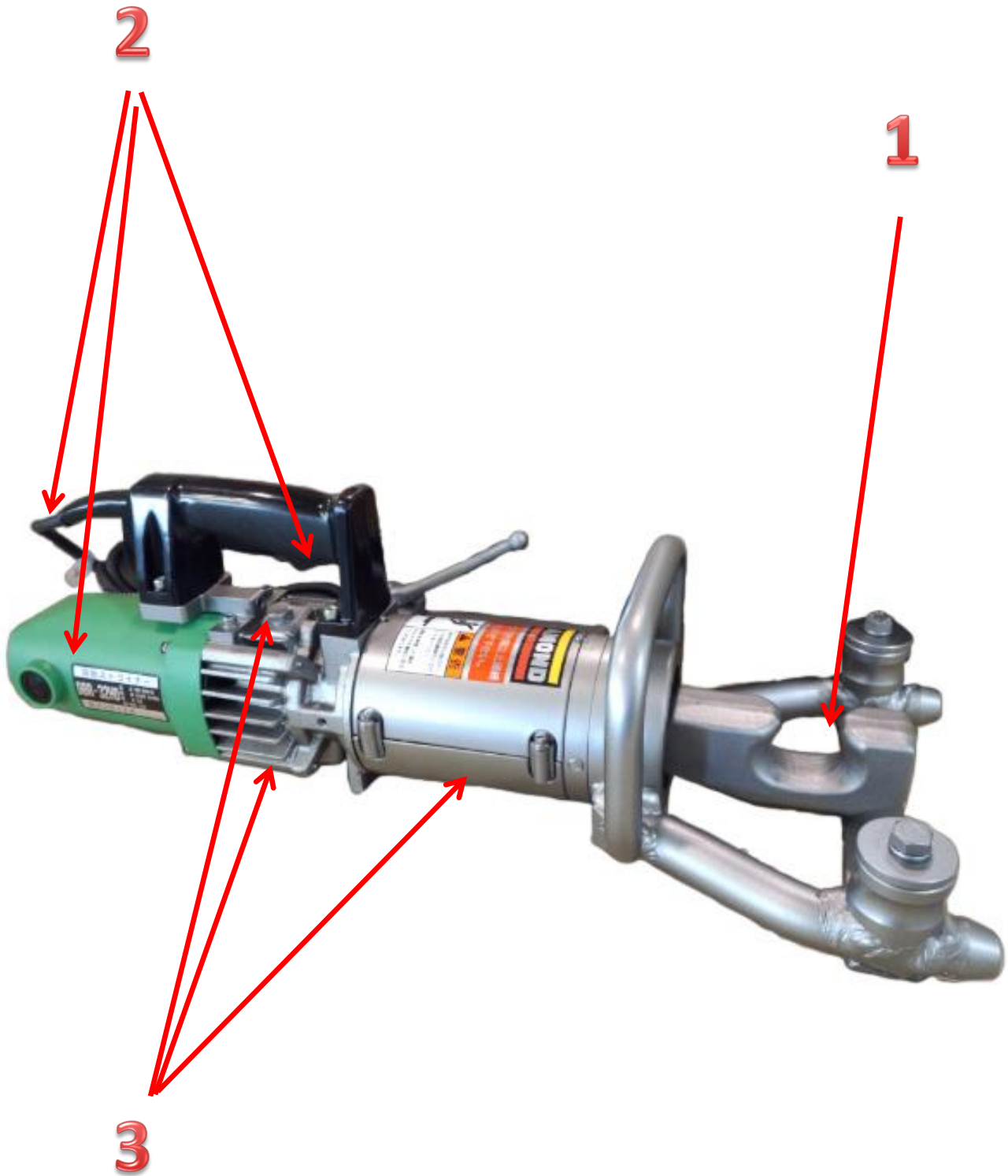
Training

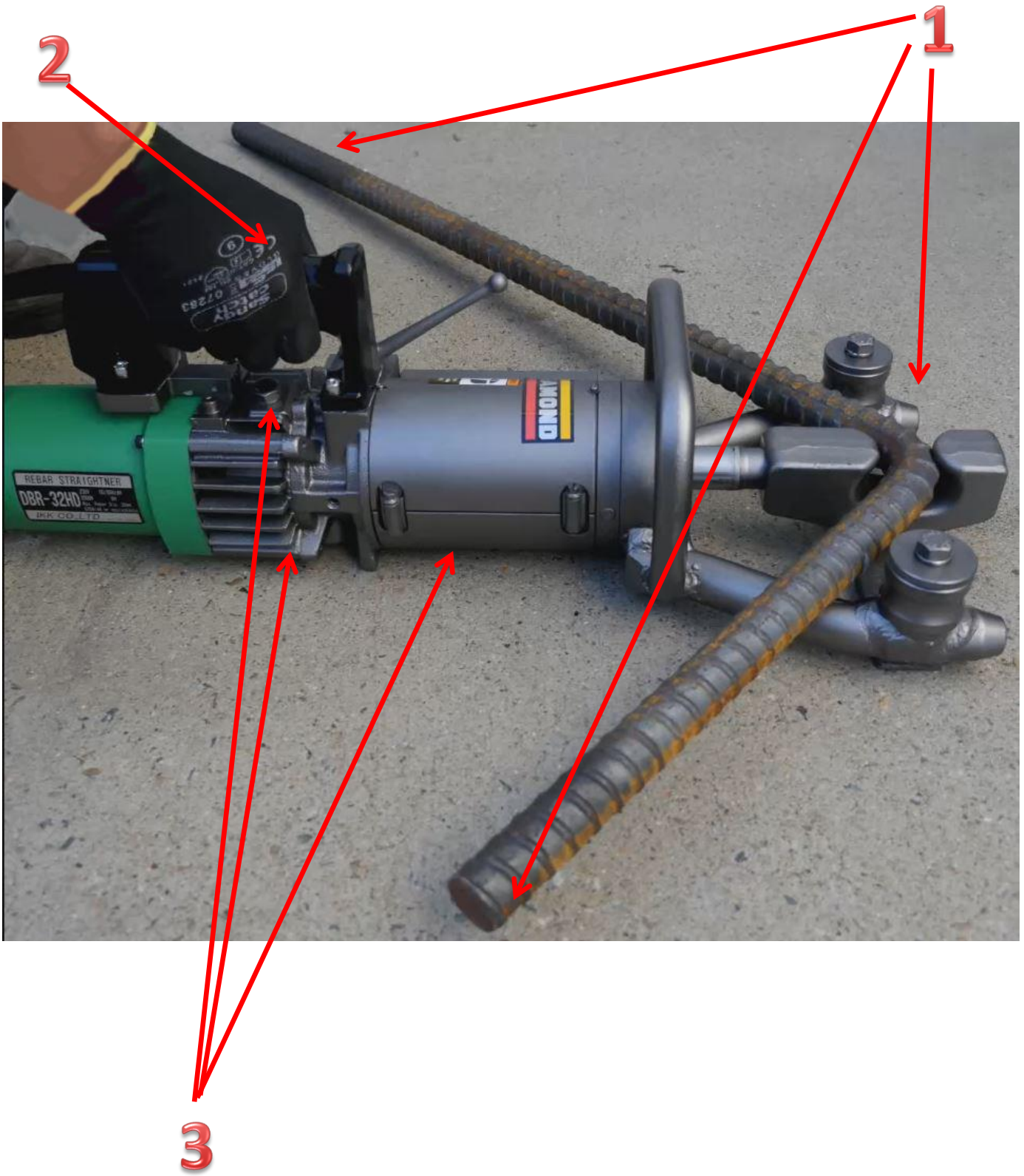
All operators must be familiar with general hydraulic tool operation and/or received competent use training from an experienced operator

PPE (Personal Protective Equipment) & Safety



Product Image with Identified Risk Points
Refer to Risk Assessment Table





| Picture Ref # | Location | Hazard Type | Risk | Current Score | | | Risk Controls Required | Revised Score (Controls) | | |
|---------------|--|---|--|---------------|--------|-------|---|--------------------------|--------|-------|
| | | | | Impact | Chance | TOTAL | | Impact | Chance | TOTAL |
| 1 | Bending / Straightening Head | Crushing Cutting Pinching Puncturing | Risk of Injury to Fingers or Hands in the Bending / Straightening Head region when unit in operation | 4 | 2 | 8 | <ol style="list-style-type: none"> 1. Only operate the unit in accordance with the Handling Operating Instructions Manual. 2. NEVER Place Hands/Fingers within close-proximity of the Bending / Straightening Head whilst the equipment is being operated 3. Use CLAMPS or other practical means to secure and support the REBAR workpiece as holding the workpiece by hand or against your body may be unstable and lead to loss of control and injury 4. If the Bending / Straightening Head components show any sign of damage, DO NOT USE the Equipment and have it inspected and checked for safe operation 5. PPE – Always Wear Protective Gloves, Footwear, Clothing and Eyewear | 2 | 1 | 2 |
| 2 | Electrical Cord / Electric Motor / Switch / Handle | Visible Damage or exposed to WET Conditions | Potential for serious Electrical Injury and/or Equipment damage | 5 | 3 | 15 | <ol style="list-style-type: none"> 1. Inspect the tool before every use and operate in accordance with the Handling and Operating Instructions 2. Always observe the Electrical Safety advice within the Handling and Operating Instructions 3. Remove the tool from use if any signs of damage are visible on the Electric Cord, Motor or Handle 4. NEVER use the Equipment in WET or RAINY conditions 5. PPE – Always Wear Protective Gloves, Footwear, Clothing and Eyewear | 2 | 1 | 2 |

| | | | | | | | | | | |
|-------------------|--|---|--|---|---|----|--|---|---|---|
| 3 | Hydraulic Pump Case / Oil Plug / Cover A/B | High Pressure/Hot Oil Injection into Eyes or Body Parts if the Plug or Release Valve are removed whilst unit is in operation | Hydraulic Oil Entering Eyes, Blood Stream or Ingested | 4 | 3 | 12 | <ol style="list-style-type: none"> 1. Inspect the tool before every use. Remove the tool from use if any signs of damage or any hydraulic oil leaks are visible 2. NEVER remove the Oil Plug or Release Valve whilst the unit is in operation 3. ONLY remove the Oil Plug or Release Valve in accordance with the Handling and Operating Instructions where necessary when unit is NOT IN USE 4. PPE – Always Wear Protective Eyewear, Clothing, Footwear and Gloves | 2 | 1 | 2 |
| NA | General Working Environment and Safety Precautions | Using Equipment on uneven / unstable surfaces and not conforming to Safety Precautions reflected in the Handling and Operating Manual | Debris entering Eye during Bending / Straightening, debris striking people in the vicinity of the unit during operation, unsafe positioning of the unit prior to use | 2 | 3 | 6 | <ol style="list-style-type: none"> 1. Inspect the tool before every use. Remove the tool from use if any signs of damage 2. Position the Tool on a solid, stable and level surface prior to use 3. Always maintain a tidy and well illuminated work area 4. Operate unit in accordance with the Handling and Operating Instructions and observe the General Safety Rules reflected therein 5. Regularly service the unit 6. PPE – Always Wear Protective Clothing, Footwear, Eyewear and Gloves | 1 | 1 | 1 |
| (4) Product Image | Entire Unit | Manual Handling of unit weighing 28kg | Incorrect Manual Handling, Repetitive or Sustained Force, High or Sudden Force, Sustained / Awkward Posture or Dropping the Unit on Feet | 4 | 3 | 12 | <ol style="list-style-type: none"> 1. Only operate the unit in accordance with the Manufacturer's Operating Instructions, by use of the unit handling points indicated in the Product Image Reference (4). 2. Comply with relevant Manual Handling Codes of Practice in respective locations (e.g. Safe Work NSW Code of Practice – Hazardous Manual Tasks September 2016) 3. If doing repetitive tasks rest the head against a sturdy object (refer to NOHSC code of practice for repetitive tasks) 4. PPE – Always Wear Safety Footwear and Gloves when handling the unit | 2 | 2 | 4 |

The **Risk Rating Matrix** is used to assess the likelihood and the severity or consequences of each hazard and to give it a “risk rating”.

Risk Rating Matrix

| | Chance or Likelihood | | | | |
|---------------|----------------------|----------|----------|----------|----------------|
| Impact | Rare | Unlikely | Possible | Likely | Almost certain |
| Catastrophic | moderate | moderate | high | critical | critical |
| Major | Low | moderate | moderate | high | critical |
| Moderate | Low | moderate | moderate | moderate | high |
| Minor | very low | low | moderate | moderate | moderate |
| Insignificant | very low | very low | low | low | moderate |

Consequence Table

| Likelihood (L) | Impact (I) | Rating (L) X (I) | Definition |
|---------------------------|--|--|---|
| (5) Almost certain | (5) Catastrophic <ul style="list-style-type: none"> Potential financial impact of \$500,000 (\$50,000)(a) or more Detrimental impact on operations or major projects Sustained loss in reputation , Sustained impact on services or quality Loss of public confidence in the University Contractual, legislative or regulatory non-compliance with certain litigation, prosecution or penalties Life threatening | Critical > 20 | Issue represents a control weakness which could cause a severe disruption to or have a severe adverse effect on operations and objectives |
| (4) Likely | (4) Major <ul style="list-style-type: none"> Potential financial impact of \$200,000 (\$20,000) or more Major impact on operations or major projects Serious loss in reputation Serious impact on services or quality Probable loss of public confidence in the University Contractual, legislative or regulatory non-compliance with probable litigation, prosecution or penalties Extensive injuries | High ≥ 13 & ≤ 19 | Issue represents a control weakness which could cause a major disruption to or have a major adverse effect on operations and objectives |
| (3) Possible | (3) Moderate <ul style="list-style-type: none"> Potential financial impact of \$100,000 (\$10,000) or more Moderate impact on operations or major projects Short-term loss in reputation Moderate decline in services or quality Possible loss of public confidence in the University Contractual, legislative or regulatory non-compliance with potential for litigation, prosecution or penalties Minor injuries | Moderate ≥ 5 & ≤ 12 | Issue represents a control weakness which could cause a disruption to or have an adverse effect on operations and objectives |
| (2) Unlikely | (2) Minor <ul style="list-style-type: none"> Potential financial impact of \$50,000 (\$5,000) or more Minor impact on operations or major projects No loss in reputation Minor impact on services or quality No loss of public confidence in the University Contractual, legislative or regulatory non-compliance but unlikely to result in litigation, prosecution or penalties Potential for injury | Low ≥ 3 & ≤ 4 | Issue represents a minor control weakness which could cause a minimal but reportable effect on operations and objectives |
| (1) Rare | (1) Insignificant <ul style="list-style-type: none"> Potential financial impact less than \$50,000 (< \$5,000) Impact can be absorbed – insignificant effect on operations and objectives | Very Low ≤ 2 | Issue represents an insignificant control weakness |