International Design Standards -Lifting Machines, Tackle, Clamps, Attachments & Accessories

LIFTING MACHINES:

Electric Chain Hoist Pneumatic Chain Hoists Chain Block - Hand Operated Lever Hoist - Hand Operated Jib Cranes

SLINGS:

Chain -Chain Slings - Welded Assy. Grade 8 Chain Slings - Instant Assy. (MAX•A•LOK) Gr. 8 Components for chain sling - Grade 8 Polyester Sling - Endless Type Polyester Sling - Flat Woven Type Steel Wire Rope Sling

CLAMPS AND ATTACHMENTS:

Steel Plate / Section Lifting Clamps Steel Coil 'C' Hooks Palletforks and Grabs Lifting Beams and Frames

ACCESSORIES:

Shackle Lifting : Bow and Dee Shackle Pulling : Bow and Dee Steel Wire Rope Clip (Crosby Clamps) Steel Wire Rope Thimbles JIS 8815/1987 and or DIN VDE 0100 SABS 1638 : 1995 JIS B8801/12, SANS 1594:2006, BS 3243 JIS 8819 and or SANS 1636:2006 SANS 1599-1:1994

EN 818 - 1 & 2 SANS 189 ISO 3076 ISO 4778 / SANS 4778 ISO 7593 / SANS 7593 - EN 818 - 1 & 4 EN 1677 - 1 & 4 ISO 4778 EN 1492-2 / SANS 94-2 2003 EN 1492-1 / SANS 94-1 2003 SABS ISO 7531:1987

EN 13155 EN 13155/DIN 15018 EEC 89 / EEC 91 / 36B/EEC DIN 15018

FED SPEC RR -C- 271 BS 3032 FF -C- 450 BS 464 / FF -T- 276

IMPORTANT!

Always specify design standard on drawings/specifications/tenders and purchase orders.

All equipment must be individually certified and have tracebility info.

Legal Requirements as of 2006/07/01 (South Africa)

It is the USERS responsibility to comply with the following:

- Mine Health & Safety Act, Chapter 8: Machinery and Equipment: Lifting Equipment Regulations. Effective December 15, 2005 These new regulations cover definitions, factors of safety, operating procedures, adherence to safe lifting practice etc.
- 2. Mine Helath and Safety Act Act No 29 of 1996
 - Section 9: Code of Practice.
 - Section 10: Employer to provide Health and Safety Training.
 - Section 11: Employer to assess and respond to risk.
 - Section 21: Manufacturers and suppliers duty for helath and safety.
 - Section 22: Employees duty for Health and Safety.
- 3. OHS Act Act 85 of 1993
 - Section 8: General duties of employers: sub Par (e) (f) and (i).
 - Section 14: General duties of employees: sub Par (a) (c) and (d).
 - Section 15: Duty not to interfere with ----- or damage ------
 - Section 16: Appointments of Competent Persons
- 4. OHS Act Driven Machinery Regulations Regulation 18: Covers Lifting Equipment Regulation 18 (1-9): Covers Lifting Machinery Regulation 18 (10): Covers Lifting Tackle Also see Definitions, which detail the different types
- 5. Summary of the important clauses of the OHS-Act, pertaining to lifting tackle. Regulation 18: Sub Regulation 10 (summary)
 - a) Design parameters, implies manufacturers test or compliance certificates.
 - b) "all lifting assemblies" must be conspicuously and clearly marked with identification particulars, and the M.M.L. (trace ability)
 - c) Design factors of safety for different types
 - 4:1 = alloy chain for lifting
 - 6:1 = steel wire rope and mad made textile slings (webbing)
 - d) Wire rope discard criteria
 - e) Mandatory three monthly minimum inspection periods for lifting tackle (single shift op eration) by a competent person, which should be recorded in a register.
 - f) Lifting tackle to be stored or protected when not in use.
- NOTE: It is important to note that the D.O.L. is currently reviewing DMR 18 and that updated Regulations should become effective in 2006

WARNING!!

Lifting Operations are potentially dangerous tasks - Avoid risks by using the correct equipment that is in safe working order and by trained operators. Accidents will always result in injury and or death and equipment damage.

ALWAYS PERFORM A "TASK" RISK ASSESMENT PRIOR TO LIFT!