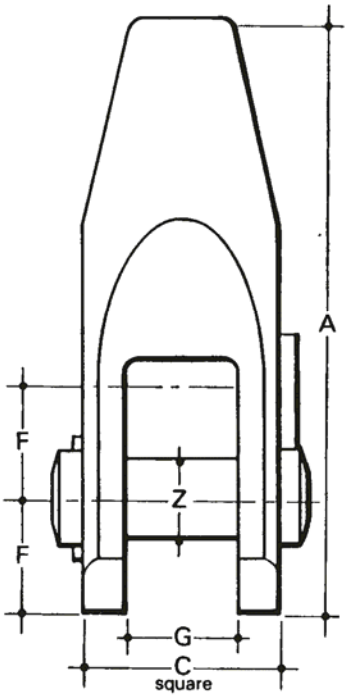
Hoist Rope Sockets

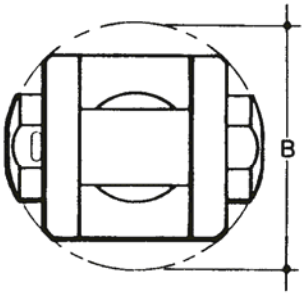
Sockets are fitted to hoist ropes either by using white metal or resin and this type of fixing is preferred by many engineers.

The National Coal Board specified that hoist rope sockets are made to their specification 465: 1965 and the capacities and basic dimensions of these sockets are given in the “Dimensions & Data” table on page 34 that refers to the diagrams below.

The sockets are normally made from 1.5% manganese steel to BS 2772: Part 2: 1989 in the hardened and tempered condition. There is a factor of safety of at least 10 on the safe working loads specified.

The equipment quoted in this advertisement is in use in United Kingdom, European and North American mines.





Hoist Rope Sockets

Dimensions & Data

Socket Identification No.	Rope Dia. in	Safe Working Load Ton f	Proof Load Ton f	A in	B in	C in	F in	G in	Z in	Approx Weight lb
M10	5/8	3.35	8	8 1/2	3 3/4	2 3/4	1 5/8	1 21/32	1 1/16	9 1/2
M11	11/16	4.24		9 1/4			1 3/4			20
M12	3/4	4.74		9 7/8			1 7/8			21
M13	13/16	5.78	16	10 3/4	5	3 3/4	2 1/16	2 1/4	1 1/2	22
M14	7/8	6.35		11 5/8			2 1/4			25
M15	15/16	7.55		12 1/2			2 7/16			42
M16	1	8.87		13 3/8			2 9/16			44
M17	1 1/16	9.57	27	14 1/8	6 3/8	4 3/4	2 11/16	2 27/32	1 7/8	46
M18	1 1/8	11.03		15			2 7/8			48
M19	1 3/16	11.81		15 3/4			3			78
M20	1 1/4	13.45		16 1/2			3 3/16			82
M21	1 5/16	14.29	40	17 1/4	7 3/4	5 3/4	3 5/16	3 15/32	2 5/16	84
M22	1 3/8	16.15		18 1/4			3 1/2			86
M23	1 7/16	18.00		19			3 5/8			130
M24	1 1/2	18.92		19 3/4			3 3/4			132
M25	1 9/16	21.07	56	20 5/8	9	6 7/8	3 15/16	4 1/16	2 3/4	137
M26	1 5/8	22.00		21 1/2			4 1/8			141
M27	1 3/8	24.30		22 1/4			4 1/4			195
M28	1 3/4	26.61		23 1/8			4 3/8			202
M29	1 13/16	27.84	74	23 7/8	10 1/2	7 7/8	4 1/2	4 5/8	3 1/8	210
M30	1 7/8	30.30		24 3/4			4 11/16			220
M31	1 15/16	31.54		25 5/8			4 7/8			280
M32	2	34.15		26 1/4			5			290
M33	2 1/16	36.92	90	27 1/8	11 1/2	8 7/8	5 3/16	5 7/32	3 9/16	300
M34	2 1/8	38.30		28			5 5/16			310
M35	2 3/16	41.23		28 3/4			5 7/16			350
M36	2 1/4	42.61		29 7/8			5 5/8			412
M37	2 5/16	45.23	118	30 3/8	12 3/4	9 7/8	5 3/4	5 25/32	4	475
M38	2 3/8	46.77		31 1/4			5 15/16			525
M39	2 7/16	49.84		32			6 1/16			595
M40	2 1/2	53.07	131	32 3/4	13 1/2	10 3/8	6 3/16	6 1/16	4 3/16	610

Ton= 2240 lb