HEAD BLOCKS - Limits of Use

8" Single Purchase Underhung with Beam Angles

THESE TABLES APPLY TO JRC PART NUMBERS:

1CS-60859R REV 6 1CS-80859R REV 6

Headblock Load Rating Table Instructions

NOTE: There are individual tables for each size and orientation of head block

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 1. Review the LIMITS OF USE scalarion shown on the right hand size of this document. If your
 project does not meet the LIMITS OF USE, please contact JR Clarry for further information.

 Review the project for the exact requirements of your specific head block. You will need to
 know the following information prior to using the head block boat rating tables:

 a. Obstaction of block (upging for underhang) and for for detrining, the attachment method.

 c. The clear distance between the supporting head steel flanges (NOT the beam centerine).

 distance,
 dist

NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.

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Head Blocks - LIMITS OF USE

NOTE: RWL (Recommended Working Load) is a function of mounting conditions and is only valid when the following

TABLE 1 - HEAD BLOCK GROSS LOAD CAPACITY (in lbs.) - 8" Single Purchase Underhung Head Block with Beam Angles

IADLL I - I		<u> </u>	0.100	0 -0/10	0/11/1							ing nea			Douin	, uigio		
Clear Distance																		
Between Flanges	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13
10	1517	2303	2737	2947	3012	3012	3012	3012	3012	2446	2078							
11	1369	1967	2838	3012	3012	3012	3012	3012	3012	2378	1979	1816						
12	1268	1757	2596	3012	3012	3012	3012	3012	3012	2325	1905	1712	1645					
13	1194	1613	2300	3012	3012	3012	3012	3012	3012	2283	1847	1634	1539	1526				
14	1138	1509	2097	3012	3012	3012	3012	3012	3012	2248	1801	1573	1458	1417	1438			
15	1094	1430	1950	2823	3012	3012	3012	3012	3012	2219	1763	1525	1396	1336	1328	1370		
16	1059	1367	1838	2612	3012	3012	3012	3012	3012	2195	1732	1485	1346	1272	1245	1259	1317	
17	1029	1317	1750	2451	3012	3012	3012	3012	3012	2174	1705	1452	1306	1221	1180	1175	1204	1273
18	1005	1276	1680	2325	3012	3012	3012	3012	3012	2156	1682	1424	1272	1179	1128	1109	1119	1159
19	984	1241	1621	2223	3012	3012	3012	3012	3012	2140	1662	1401	1243	1145	1086	1057	1053	1074
20	966	1212	1572	2139	3012	3012	3012	3012	3012	2126	1645	1380	1218	1115	1051	1014	1001	1008
21	951	1187	1531	2069	3002	3012	3012	3012	3012	2114	1630	1362	1197	1090	1021	979	958	955
22	937	1165	1495	2009	2897	3012	3012	3012	3012	2102	1616	1346	1178	1068	996	949	922	911
23	925	1145	1464	1958	2807	3012	3012	3012	3012	2092	1604	1331	1162	1049	974	923	891	875
24	914	1128	1437	1913	2729	3012	3012	3012	3012	2083	1593	1319	1147	1033	954	901	865	845

Indicates dimension recommended in JRC Design Guide

TABLE 2 - I	MAXIMU	I LINE LO	ADS						
8.5" Sheave Line Load limited by Tread Pressure									
Cable Diameter	Cast	Steel	Nylon						
1/4"	500	1000	3500						

NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.

HEAD BLOCKS - Limits of Use

8" Single Purchase Underhung with Beam Clips

THESE TABLES APPLY TO JRC PART NUMBERS: 1CS-60859R REV 6 1CS-80859R REV 6

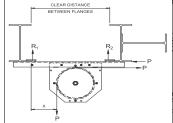
- NOTE: There are individual tables for each size and orientation of head block
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 Review the LUMITS OF USE section showen on the right hand side of this document. If your project does not meet the LIMITS OF USE, please contact J R Clancy for further information. Review the project for the exact requirements of your specific head block. You will need to be a contact J R Clancy for further information.

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- whele's your selected Now and Column intersect will on the Virola Load Laplacity in log of your howelf had the called the called the called the Called Capacity Now Indiana. When the Capacity by multiplying the maximum individual line load x the number of lift lines. Lumited Capacity by multiplying the maximum individual line load x the number of lift lines. Your final maximum RVII. Gry your head block will be the lesser of: a. the Gross RVII. from the Table. OR b. the Tread Pressure Limited Capacity.

NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.



d Blocks - LIMITS OF USE

NOTE: RWL (Recommended Working Load) is a function of mounting conditions and is only valid when the following criteria are met:

- criteria are met:

 All lift lines wrap 90° around the sheave, all hand lines wrap 180° around the sheave.

 All lift lines wrap 90° around the beams, with the shaft between the beam centerlines.

 All lift lines wrap 90° around the beams, with the shaft between the beam centerlines.

 All cable fleet angles are less than 1.5°

 For Underhung Headblocks, they shall be attached to structural steel in one of the following three methods:

 a) beam clip angles, min. two 2"x 1.1/4" x 1/4" angles, back to back botted with two 1/2"g °f 5 botts.

 b) formed clips with two 1/2" gr 5 botts, from one of the following JRC part #"s:

 1. 070–3865.0.070–38675, 070–38675.0.0000

 1. 070–3865.0.0000

 1. 070–3865.0.00000

 1. 070–3865.0.00000

 2. welded directly the 070–38675, 070–38670.0000

 2. welded directly the 070–38675, 070–38670.0000

 2. welded directly the 070–38675, 070–38670.0000

 2. one of the order of th

TABLE 1 - HEAD BLOCK GROSS LOAD CAPACITY (in lbs.) - 8" Single Purchase Underhung Head Block with Beam Clips

Between Flanges 768 775 782 788 793 797 591 604 616 633 644 655 665 738 746 753 759 675 685 693 886 834 1181 638 725 886 1053 1074 1008 955 911 875 19 839 938 1086 1057 844 846 847 656 665 672 709 716 722 805 809 812 886 886 979 949 738 744 1021 21 933 984 1108 1181 23

Indicates dimension recommended in JRC Design Guide

TABLE 2 -	MAXIMUN	LINE LOA	DS							
8.5" Sheave Line Load limited by Tread Pressure										
Cable Diameter	Cast	Steel	Nylon							
1/4"	E00	1000	3500							

NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.

HEAD BLOCKS - Limits of Use

8" Single Purchase Underhung with Welds

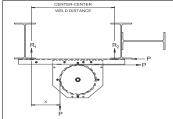
THESE TABLES APPLY TO JRC PART NUMBERS:

1CS-60859R REV 6 1CS-80859R REV 6

- NOTE: There are individual tables for each size and orientation of head block
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NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.



Head Blocks - LIMITS OF USE

NOTE: RWL (Recommended Working Load) is a function of mounting conditions and is only valid when the following criteria are met:

- criteria are met:

 All lift lines wrap P0' around the sheave, all hard lines wrap 180" around the sheave.

 All lift lines wrap P0' around the sheave, all hard lines wrap 180" around the sheave.

 All braddlocks mount on two beams, with the shaft between the beam centerlines.

 All cable fleat angles are less han 1.5".

 For Underhung Headblocks, they shall be attached to structural steel in one of the following three methods:

 a) beam clips angles, min, two 2" x 1.1/4" x 1/4" angles, back to back botted with two 12" gr 5 botts.

 b) formed clips with two 12", 2" gr 5 botts, from one of the following JRC part #"s:

 1.07.8856.07.07.8857.870.3851.00

 c) welded directly to the beam, min, four 1/4" filler welds at 1.5" in length ea.

 For Unright Headblocks they shall be attached to structural steel by either b), or c) above. The onstage connection to structure must have the boit bear directly against the mounting steel in shear.

 CONTACT J R CLANCY FOR OTHER MOUNTING CONDITIONS.

TABLE 1 - HEAD BLOCK GROSS LOAD CAPACITY (in lbs.) - 8" Single Purchase Underhung Head Block with Welds

		_		_														
Center - Center						Dista	nce Betweer	n Offstage W	eld Centerlir	ne and Offsta	age Handline	(Dimension	"X")					
Weld Distance	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13
10	1627	2426	3012	3012	3012	3012	3012	3012	2751	2138	1876							
11	1482	2115	3012	3012	3012	3012	3012	3012	2708	2075	1789	1666						
12	1380	1911	2820	3012	3012	3012	3012	3012	2673	2025	1722	1575	1523					
13	1304	1767	2531	3012	3012	3012	3012	3012	2644	1985	1669	1505	1430	1420				
14	1245	1659	2326	3012	3012	3012	3012	3012	2619	1952	1626	1450	1359	1325	1342			
15	1198	1576	2173	3012	3012	3012	3012	3012	2598	1924	1591	1406	1303	1253	1246	1282		
16	1160	1510	2055	2980	3012	3012	3012	3012	2580	1900	1561	1369	1257	1196	1173	1185	1233	
17	1128	1456	1961	2807	3012	3012	3012	3012	2565	1880	1536	1338	1219	1150	1115	1111	1135	1193
18	1101	1412	1885	2670	3012	3012	3012	3012	2551	1862	1514	1312	1188	1111	1068	1052	1060	1094
19	1078	1374	1821	2558	3012	3012	3012	3012	2539	1846	1495	1290	1161	1079	1030	1005	1002	1019
20	1058	1341	1767	2465	3012	3012	3012	3012	2528	1832	1478	1270	1138	1052	997	966	954	960
21	1041	1313	1721	2386	3012	3012	3012	3012	2518	1820	1464	1253	1118	1028	969	933	914	912
22	1026	1289	1682	2319	3012	3012	3012	3012	2510	1809	1450	1237	1100	1008	946	905	881	872
23	1012	1267	1647	2261	3012	3012	3012	3012	2502	1799	1439	1224	1084	990	925	881	853	839
24	1000	1248	1616	2210	3012	3012	3012	3012	2494	1790	1428	1211	1070	974	907	860	829	811

Indicates dimension recommended in JRC Design Guide

TABLE 2 - MAXIMUM LINE LOADS										
8.5" Sheave Line Load limited by Tread Pressure										
Cable Diameter	Cast	Steel	Nylon							
1/4"	500	1000	3500							

NOTE: The above values are <u>based on block capacity only</u> and do not reflect the capacity of the cable you use. Consult your wire rope manufacturer for the RWL for your particular cable.