

SEHNLI RODS DESIGN CAPACITIES

PRODUCT DATE



Bar with upset threaded ends - individual lengths available up to 11.5 m, depending on grade and diameter (turnbuckles/couplers used for longer lengths).

Table1-Rods with upset forged threads

Nominal upset thread diamet	ØD	Metric	64	68	72	76	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
Thread tensile stress area	A _s	mm ²	2676	3055	3460	3889	4344	4948	5591	6273	6995	7755	8556	9395	10274	11191	12149	13145	14181	15256	16370	17524	18716
Shaft diameters available	All grades	mm	50-55	55-60	60-65	60-65	60-70	65-75	70-80	75-85	80-90	85-95	90-100	95-105	100-110	105-115	100-120	110-125	115-130	120-135	125-140	130-145	135-150

SLG355 - Tensile resistance (EN1993-5 k=0.6)

Rod code	SLG355	M64/50	M68/55	M72/60	M76/65	M80/70	M85/75	M90/80	M95/80	M100/85	M105/90	M110/95	M115/100	M120/100	M125/105	M130/110	M135/115	M140/120	M145/125	M150/130	M155/135	M160/140	
Optimum shaft diameter	Ø _{dg}	mm	50	55	60	65	70	75	80	80	85	90	95	100	100	105	110	115	120	125	130	135	140
Shaft gross area	A _g	mm ²	1963	2375	2826	3317	3847	4416	5024	5024	5672	6359	7085	7850	7850	8655	9499	10382	11304	12266	13267	14307	15386
Shaft yield capacity	F _y	kN	697	843	1003	1177	1366	1568	1784	1784	2013	2257	2515	2787	2787	3072	3372	3685	4013	4354	4710	5079	5462
Shaft ultimate capacity	F _{ua}	kN	1001	1211	1441	1691	1962	2252	2562	2893	3243	3613	4004	4004	4414	4844	5295	5765	6255	6766	7296	7847	
Tensile resistance	F _{t,Rd}	kN	656	749	847	952	1062	1212	1368	1535	1714	1900	2095	2299	2521	2742	2962	3207	3452	3721	3990	4284	4578

SLG460 - Tensile resistance (EN1993-5 k=0.6)

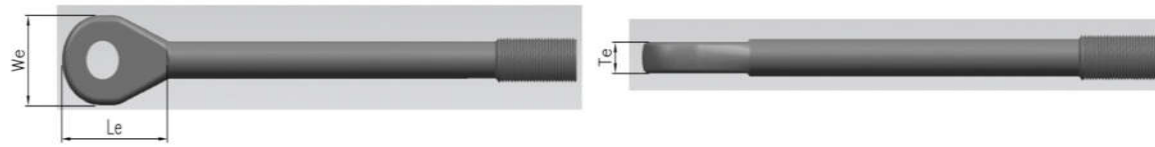
Rod code	SLG460	M64/50	M68/55	M72/60	M76/65	M80/70	M85/75	M90/80	M95/80	M100/85	M105/90	M110/95	M115/100	M120/100	M125/105	M130/110	M135/115	M140/120	M145/125	M150/130	M155/135	M160/140	
Optimum shaft diameter	Ø _{dg}	mm	50	55	60	65	70	75	80	80	85	90	95	100	100	105	110	115	120	125	130	135	140
Shaft gross area	A _g	mm ²	1963	2375	2826	3317	3847	4416	5024	5024	5672	6359	7085	7850	7850	8655	9499	10382	11304	12266	13267	14307	15386
Shaft yield capacity	F _y	kN	903	1092	1300	1526	1769	2031	2311	2311	2609	2925	3259	3611	3611	3981	4369	4776	5200	5642	6103	6581	7078
Shaft ultimate capacity	F _{ua}	kN	1197	1449	1724	2023	2346	2694	3065	3065	3460	3879	4322	4789	4789	5279	5794	6333	6895	7482	8093	8727	9385
Tensile resistance	F _{t,Rd}	kN	785	896	1013	1139	1271	1449	1637	1836	2050	2272	2506	2749	3016	3279	3543	3836	4128	4451	4773	5124	5475

SLG500 - Tensile resistance (EN1993-5 k=0.6)

Rod code	SLG500	M64/50	M68/55	M72/60	M76/65	M80/70	M85/75	M90/80	M95/80	M100/85	M105/90	M110/95	M115/100	M120/100	M125/105	M130/110	M135/115	M140/120	M145/125	M150/130	M155/135	M160/140	
Optimum shaft diameter	Ø _{dg}	mm	50	55	60	65	70	75	80	80	85	90	95	100	100	105	110	115	120	125	130	135	140
Shaft gross area	A _g	mm ²	1963	2375	2826	3317	3847	4416	5024	5024	5672	6359	7085	7850	7850	8655	9499	10382	11304	12266	13267	14307	15386
Shaft yield capacity	F _y	kN	981	1187	1413	1658	1923	2208	2512	2512	2836	3179	3542	3925	3925	4327	4749	5191	5652	6133	6633	7153	7693
Shaft ultimate capacity	F _{ua}	kN	1295	1567	1865	2189	2539	2914	3316	3316	3743	4197	4676	5181	5181	5712	6269	6852	7461	8095	8756	9442	10155
Tensile resistance	F _{t,Rd}	kN	836	955	1080	1214	1354	1544	1744	1956	2184	2421	2671	2930	3214	3494	3775	4087	4399	4742	5086	5460	5834

SLG700 - Tensile resistance (EN1993-5 k=0.6)

Rod code	SLG700	M64/50	M68/55	M72/60	M76/65	M80/70	M85/75	M90/80	M95/80	M100/85	M105/90	M110/95	M115/100	M120/100	M125/105	M130/110	M135/115	M140/120	M145/125	M150/130	M155/135	M160/140	
Optimum shaft diameter	Ø _{dg}	mm	50	55	60	65	70	75	80	80	85	90	95	100	100	105	110	115	120	125	130	135	140
Shaft gross area	A _g	mm ²	1963	2375	2826	3317	3847	4416	5024	5024	5672	6359	7085	7850	7850	8655	9499	10382	11304	12266	13267	14307	15386
Shaft yield capacity	F _y	kN	1374	1662	1978	2322	2693	3091	3517	3517	3970	4451	4959	5495	5495	6058	6649	7267	7913	8586	9287	10015	10770
Shaft ultimate capacity	F _{ua}	kN	1766	2137	2543	2985	3462	3974	4522	4522	5104	5723	6376	7065	7065	7789	8549	9343	10174	11039	11940	12876	13847
Tensile resistance	F _{t,Rd}	kN	1158	1322	1495	1680	1875	2138	2415	2709	3024	3352	3698	4056	4450	4838	5227	5659	6091	6566	7042	7560	8078



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Table 2 - Forged eye (all grades)

Nominal shaft diameter	\varnothing_{dg}	mm	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
Eye thickness	T_e	mm	40	42	45	50	55	60	65	70	70	75	80	85	90	95	95	100	105	110
Eye length	L_e	mm	145	165	180	195	210	230	245	255	275	290	305	320	335	350	365	390	405	425
Eye width	W_e	mm	105	120	130	140	150	160	170	185	195	210	220	230	245	255	265	280	290	300
Pin diameter (SLG500)		mm	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130