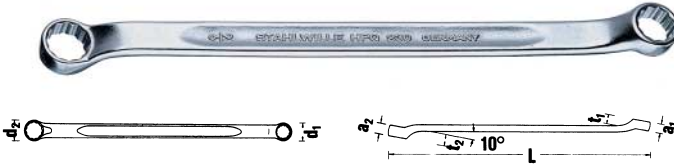


230a Double ended ring spanners



shallow offset, SAE AS 954 (dimensions and test loads);
Fed. Spec. GGG-W-636E, S.B.A.C. Techn. Spec. T.S. 48 up to size 1/2",
HPQ high performance steel, chrome plated.

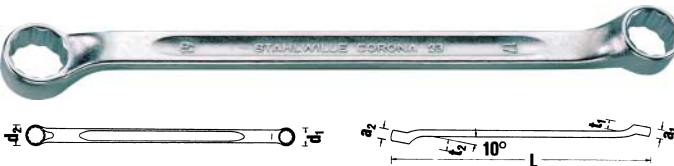


Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	g	
4161 1620	1/4 x 5/16	180	10.2	11.9	5.2	6	7.9	8.8	36	10
4161 2022	5/16 x 11/32	195	11.9	13.5	7	8	8	9	45	10
4161 2024	5/16 x 3/8	195	11.9	14.6	6	7.9	10.8	12.4	54	10
4161 2428	3/8 x 7/16	215	14.6	16.7	7.9	8.7	11.4	11.7	74	10
4161 2832	7/16 x 1/2	225	16.7	19.5	8.7	9.1	11.9	12.6	105	10
4161 3234	1/2 x 9/16	235	19.5	20.7	9.1	9.5	12.2	12.9	119	10
4161 3436	9/16 x 5/8	245	20.7	22.6	9.5	11.5	13.8	13.9	122	10
4161 3640	5/8 x 3/4	274	22.6	27.5	11.1	12	14.8	15.8	156	10
4161 3840	11/16 x 3/4	275	25.4	27.5	11.1	12	15.2	15.8	158	10
4161 4244	13/16 x 7/8	301	29.5	31.7	13.5	14.5	19	20	175	5
4161 4648	15/16 x 1	340	34.1	36.5	14.5	15	22	23	375	5
4161 4850	1 x 1 1/16	368	36.5	38.6	15	16	23	24	460	5
4161 5256	1 1/8 x 1 1/4	403	40.8	45	16	18	25	27	620	5

23 Double ended ring spanners



shallow offset, DIN 897/ISO 10104 (metric sizes),
Chrome Alloy Steel, chrome plated.

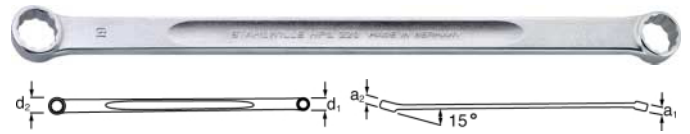


Code	mm	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	t ₁ mm	t ₂ mm	g	
4107 0607	6 x 7	170	9.5	10.8	6	7	7	8	41	10
4107 0809	8 x 9	179	12.1	13.3	7	8	8	9	49	10
4107 1011	10 x 11	188	14.6	15.9	8.5	9.5	9	10	66	10
4107 1213	12 x 13	203	17.3	18.6	9.5	10.5	10	11	95	10
4107 1415	14 x 15	219	20.1	21.4	10.5	11.5	11	13	109	10
4107 1617	16 x 17	248	22.7	24.1	11.5	12.5	14	15	144	10
4107 1719	17 x 19	250	24.1	27	12.5	13.5	15	18	162	10
4107 1819	18 x 19	251	25.5	27	12.5	13.5	16	18	157	10
4107 2022	20 x 22	280	28.5	31.3	13.5	14.5	19	20	223	5
4107 2123	21 x 23	328	29.8	32.9	13.5	14.5	19	22	281	5
4107 2427	24 x 27	376	34.3	38.6	14.5	16	22	24	426	5
4107 3032	30 x 32	429	42.6	45.2	18	18	26	27	608	5

220 Double ended ring spanners



extra long, 15° angled, SAE AS 954-E (test loads) (American sizes),
HPQ high performance steel, chrome plated.



Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	
4103 5507	5.5 x 7	185	8.8	11	5.3	5.8	28	5
4103 0608	6 x 8	205	9.8	12.1	5.6	6	34	5
4103 0911	9 x 11	250	14.2	16.7	8	8.7	80	5
4103 1011	10 x 11	250	15.5	16.7	8	8.7	80	5
4103 1214	12 x 14	290	18.3	20.7	9.5	9.5	162	5
4103 1314	13 x 14	290	18.7	20.7	9.5	9.5	160	5
4103 1719	17 x 19	365	25	27.5	11	12	296	5
4103 1819	18 x 19	365	25.5	27.5	11	12	295	5
4103 1922	19 x 22	408	27.5	31.5	13	14.3	520	5
4103 2022	20 x 22	409	28.5	31.5	13	14.3	515	5

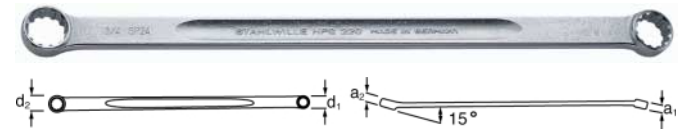
220a Double ended ring spanners

Code	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	
4143 1416	7/32 x 1/4	184	9	9.9	5.3	5.8	29	5
4143 1620	1/4 x 5/16	205	9.9	12.2	5.6	6	33	5
4143 2428	3/8 x 7/16	250	14	16	8	8.7	79	5
4143 3234	1/2 x 9/16	290	18.5	21	9.5	9.5	160	5
4143 3640	5/8 x 3/4	363	22.6	27	11	12	298	5
4143 3840	11/16 x 3/4	365	25	27	11	12	291	5

220aSP Double ended ring spanners



extra long, with spline-drive profile, 15° angled, MS-33787, MIL-W-8982,
HPQ high performance steel, chrome plated.



Code	Spline size	"	L mm	d ₁ mm	d ₂ mm	a ₁ mm	a ₂ mm	g	
4116 0709	7 x 9	7/32 x 9/32	185	9.4	11.5	5.3	5.8	23	5
4116 0810	8 x 10	1/4 x 9/16	205	10.4	12.4	5.6	6	33	5
4116 1214	12 x 14	3/8 x 7/16	250	14.9	17	8	8.7	79	5
4116 1618	16 x 18	1/2 x 9/16	290	19	21	9.5	9.5	161	5
4116 1820	18 x 20	9/16 x 5/8	315	21	23	10	11	205	5
4116 2224	22 x 24	11/16 x 3/4	365	25	27.5	11	12	310	5
4116 2630	26 x 30	13/16 x 13/16	410	29.5	34	13	14.3	496	5
4116 2832	28 x 32	7/8 x 1	430	32	36.5	13.5	15	582	5

