



DIAMOND[®]

SPROCKETS

TIDC INDIA

**THE COMPLETE
CHAIN COMPANY**



TIDC Edge

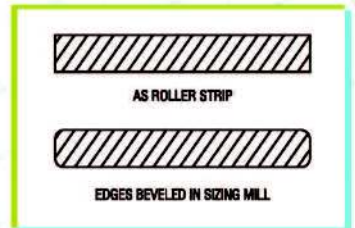
Design & Engineering

The Engineering success of TIDC has always been a combination of the latest technology deployed and continuous innovations in existing products.



Greater Fatigue and Tensile strength

The plates in each and every TIDC chain undergo piercing operation to extremely accurate specifications. Followed by Shaving or Drifting to increase bearing area, guaranteeing greater dynamic strength and fatigue life.



Longer Wear Life

Roundness of the bushes and heat treatment of pins and bushes also impact wear life. At TIDC bushes are manufactured on a multi slide auto forming machine which produces them to uniform roundness. Edge beveling and meticulous sizing is also carried out for the bushes. A special purpose machine ensures perfect cropping of pins. All components are treated in a controlled atmosphere for outstanding endurance.



Maximum Working Load capability

Critical applications call for chains with a high working load capability, and for this plates, bushes and rollers are shot peened-constantly bombarded with hard metal pellets at high speeds.



Maximum Impact & Crushing Strength

High impact resistance of rollers is achieved by use of solid rollers which are cold extruded from wires. This enables the production of strong rollers with uniform wall thickness and excellent finish.

Assembly & Testing

Pre-lubrication is followed by precision assembly and proof loading. Rigorous testing is done under various loads and speeds to evaluate their performance and to compare them against Indian and international standards.





Quality & performance

Strict and complete adherence to constant quality and regular technology upgradation have ensure TIDC chains exceed all laid down parameters:

- Consistency in length control
- Higher than standard breaking loads
- Higher than standard fatigue limits
- Chain & Sprocket supply as a kit



A manufacturer with rare strengths

Over the years we have developed and fine tuned immense competencies in cold working of metals, metal joining processes, metal treatment processes and development of tools, jigs and fixtures to support manufacturing technology.



Our chains get the best treatment

Our team has rich experience in heat treatment to maximise strength and life in every chain element: pins, bushing, rollers and link plates.

We deploy our specialist skills in continuous hardening operations for martensitic heat treatment. Under a completely automated atmosphere we work with high, medium and low carbon steels, alloy steels, austenitic and martensitic stainless steels etc. Some of the other treatments we offer based on customer specification are:-



- Chain colorations –Ash, Straw, Blue Black, Brown etc. for aesthetic appeal, achieved through controlled atmosphere.
- Plates, rollers are shot peened after heat treatment thereby enhancing fatigue life. Based on application requirement we offer chromised pins that increase wear-life manifold.



The best certification are those that came from our clients

We are one of the world's few companies to be certified for API 7F specifications by the American Petroleum Institute for oil field chains.

Our manufacturing processes right from product design to testing of finished chains conform to ISO 9000:2000 standards and are certified by RWTUV of Germany. Our Motorcycle Engine Mechanism Chain and Fine Blanking Divisions are certified to TS 16949 standards by Underwriters Laboratories, USA. But what gives us the most pride is, the approval and repeat orders that come to us from our clients all over India & across the world.

Demand Quality.....Demand Diamond

Perfect chain sprocket interaction is critical for smooth & trouble free operation of Power transmission system. This is the most critical part in driving success to a Power transmission process. Demand quality in making a drive system a highly successful one by Demanding Diamond brand.

We provide the best of the sprockets to go with the best chains for the drive system. The sprockets are designed and manufactured to meet high quality standards which will maximize the overall system efficiency. A perfect Diamond chain & sprocket articulation will give a longer service life for both chain as well as sprockets, thus ensuring cost reduction. This means

- Reduced down time
- Reduced maintenance costs
- Increased productivity

The Diamond Edge

- Diamond Sprockets are specifically designed and manufactured to suit our chain's stringent tolerance levels.
- Superior quality medium carbon and alloy steels are used for better strength and wear resistance properties.
- The teeth are generated through Hobbing and Milling process.
- The blanks for sprocket are produced through Forging and or machined using CNC machines.
- The Bore of the sprockets is finished to closer tolerances and smoother surface finish by Boring operation.
- Key ways in paired sprockets are produced by milling operation in a single stroke for better accuracy and alignment.
- Sprocket Tooth profiles are made as per standard ISO 606/ANSI B29.1.

Wrap Testing

- 100% of the sprockets are subjected to wrap test with the corresponding chain for checking the fitment between chain and sprocket.
- Wrap test ensures correctness of P.C.D and Root Diameter which are critical for fitment at site.

Hardening of Sprockets

- Sprockets and Traction wheels, the working portion will be Induction Hardened to higher case depth for better wear resistance based on request.
- The tooth portion where the chain roller engages will be hardened to resist abrasion.
- This enhances the working life of the sprocket / traction wheel.

Paired Sprockets

- In paired sprockets, the key way alignments are checked and the straightness of the teeth ensured during inspection.
- This facilitates easy assembly of sprockets in to the shafts at site.



Our Sprocket Range

Diamond sprockets are available across wide pitch groups and tooth counts.

Our sprockets comply with the British Standards and with Pilot bore with Type B.

Pitch: $\frac{3}{8}$ " to $1\frac{1}{2}$ "

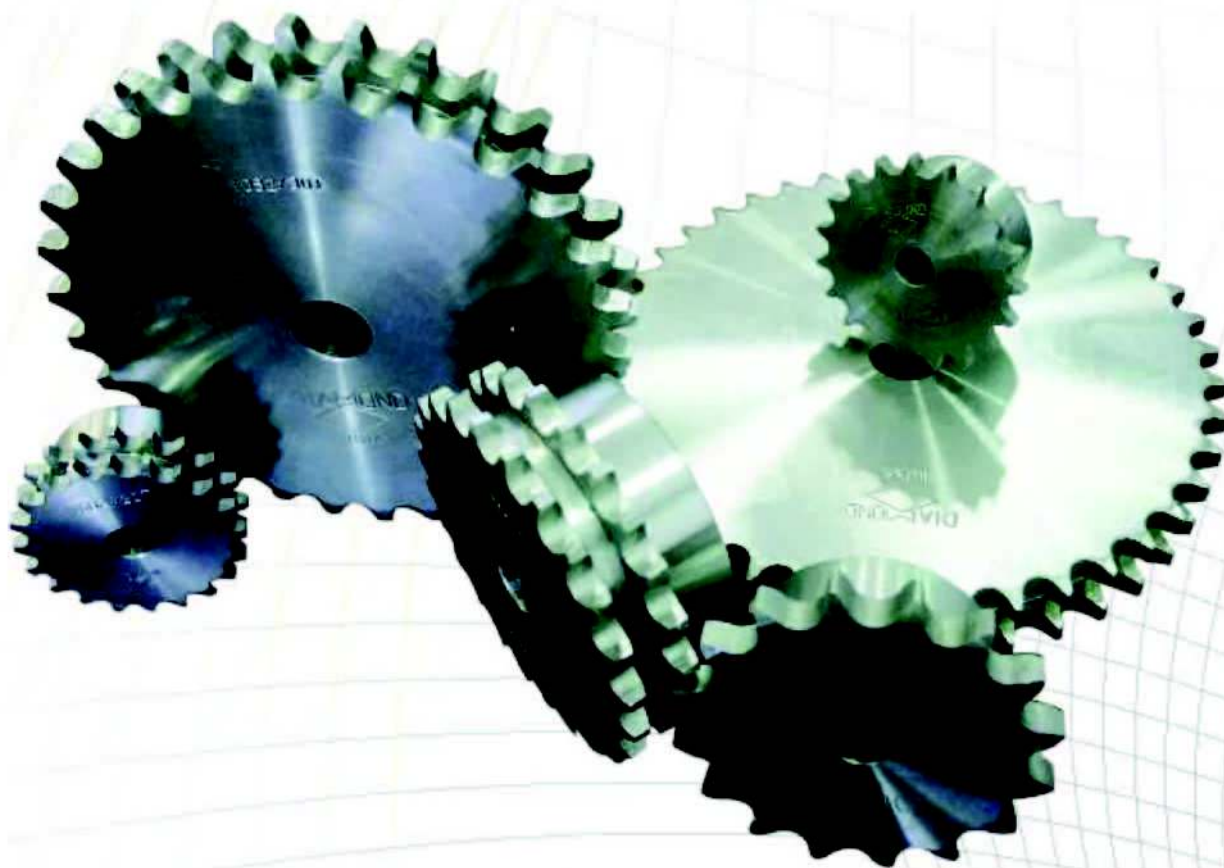
Tooth: 9 to 76

Strand: Simplex, Duplex, Triplex

Dual Sprockets are also made as enclosed.

We also supply Sprockets for specific applications based on request.

We have application engineers who can serve on Customised requirements.

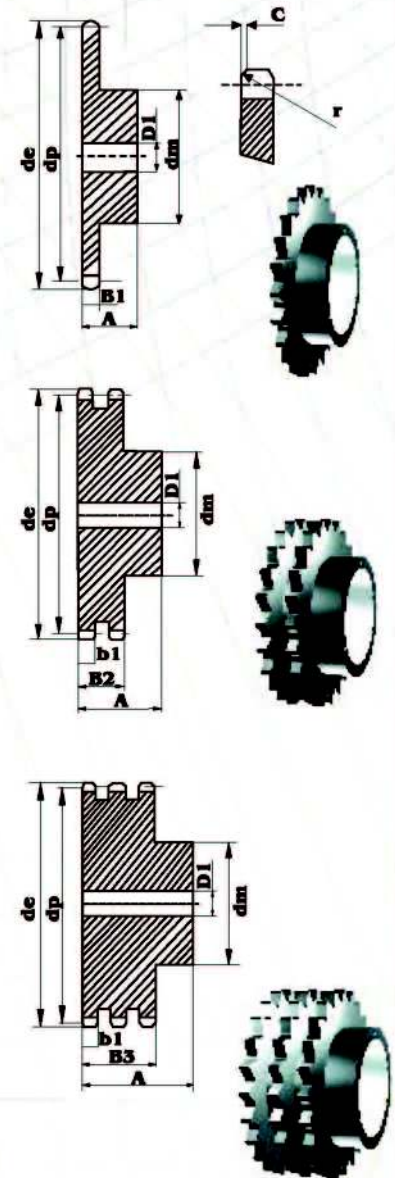


SPROCKETS 3/8" X 7/32"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	28.0	24.89	15	8	20	15	8	22	15	8	32
9	31.0	27.85	18	8	20	18	8	22	18	8	32
10	34.0	30.82	20	8	20	20	8	25	20	10	32
11	37.0	33.80	22	8	25	22	10	25	22	10	35
12	40.0	36.80	25	8	25	25	10	25	25	10	35
13	43.0	39.79	28	10	25	28	10	25	28	10	35
14	46.3	42.80	31	10	25	31	10	25	31	12	35
15	49.3	45.81	34	10	25	34	10	30	34	12	35
16	52.3	48.82	37	10	28	37	12	30	37	12	35
17	55.3	51.83	40	10	28	40	12	30	40	12	35
18	58.3	54.85	43	10	28	43	12	30	43	12	35
19	61.3	57.87	45	10	28	46	12	30	46	12	35
20	64.3	60.89	46	10	28	49	12	30	49	12	35
21	68.0	63.91	48	12	28	52	12	30	52	14	40
22	71.0	66.93	50	12	28	55	12	30	55	14	40
23	73.5	69.95	52	12	28	58	12	30	58	14	40
24	77.0	72.97	54	12	28	61	12	30	61	14	40
25	80.0	76.00	57	12	28	64	12	30	64	14	40
26	83.0	79.02	60	12	28	67	12	30	67	14	40
27	86.0	82.05	60	12	28	70	12	30	70	14	40
28	89.0	85.07	60	12	28	73	12	30	73	14	40
29	92.0	88.09	60	12	28	76	12	30	76	14	40
30	94.7	91.12	60	12	28	79	12	30	79	14	40
31	98.3	94.15	65	14	30	80	16	30	80	16	40
32	101.3	97.17	65	14	30	80	16	30	80	16	40
33	104.3	100.20	65	14	30	80	16	30	80	16	40
34	107.3	103.23	65	14	30	80	16	30	85	16	40
35	110.4	106.26	65	14	30	80	16	30	85	16	40
36	113.4	109.29	70	14	30	90	16	30	90	16	40
37	116.4	112.32	70	14	30	90	16	30	90	16	40
38	119.5	115.35	70	14	30	90	16	30	90	16	40
39	122.5	118.37	70	14	30	90	16	30	90	16	40
40	125.5	121.40	70	14	30	90	16	40	90	16	40
41	128.5	124.43	78	14	32	90	16	40	90	16	56
42	131.6	127.46	78	14	32	90	16	40	90	16	56
43	134.6	130.49	78	14	32	90	16	40	90	16	56
44	137.6	133.52	78	14	32	90	16	40	90	16	56
45	140.7	136.55	78	14	32	90	16	40	90	16	56
46	143.7	139.58	78	14	32	90	16	40	90	16	56
47	146.7	142.61	78	14	32	90	16	40	90	16	56
48	149.7	145.64	78	14	32	90	16	40	90	16	56
49	152.7	148.66	78	14	32	90	16	40	90	16	56
50	155.7	151.69	78	14	32	90	16	40	90	16	56
51	158.7	154.72	78	14	32	90	16	40	90	16	56
52	161.8	157.75	78	14	32	90	16	40	90	16	56
53	164.8	160.78	78	14	32	90	16	40	90	16	56
54	167.8	163.82	78	14	32	90	16	40	90	16	56
55	170.8	166.85	78	14	32	90	16	40	90	16	56
56	173.8	169.88	78	14	32	90	16	40	90	16	56
57	176.9	172.91	78	14	32	90	16	40	90	16	56
58	179.9	175.93	78	14	32	90	16	40	90	16	56
59	183.0	178.96	78	14	32	90	16	40	90	16	56
60	186.0	181.99	78	14	32	90	16	40	90	16	56
62	192.1	188.06	78	14	32	90	16	40	90	16	56
64	198.2	194.12	78	14	32	90	16	40	90	16	56
65	201.6	197.15	*78	14	32	*90	16	40	*90	16	56
66	204.6	200.18	*78	14	32	*90	16	40	*90	16	56
68	210.7	206.24	*78	14	32	*90	16	40	*90	16	56
70	216.7	212.30	*78	14	32	*90	16	40	*90	16	56
72	222.8	218.37	*78	14	32	*90	16	40	*90	16	56
75	231.9	227.46	*78	14	32	*90	16	40	*90	16	56
76	234.9	230.49	*78	14	32	*90	16	40	*90	16	56
79	241.0	236.55	*78	14	32	*90	16	40	*90	16	56
80	247.1	242.61	*78	14	32	*90	16	40	*90	16	56
85	262.2	257.77	*80	14	32	*90	16	40	*90	16	56
90	277.4	272.93	*80	14	32	*90	16	40	*90	16	56
95	292.5	288.08	*80	14	32	*90	16	40	*90	16	56
100	307.7	303.25	*80	14	32	*90	16	40	*90	16	56
110	338.0	333.25	*80	14	32	*90	16	40	*90	16	56
114	349.5	345.68	*80	14	32	*90	16	40	*90	16	56
120	368.3	363.86	*80	14	32	*90	16	40	*90	16	56
125	383.5	379.02	*80	14	32	*90	16	40	*90	16	56

SPROCKETS 3/8" x 7/32"

For Chain Acc to ISO 606
BS 228/ DIN 8187



SPROCKETS

	mm
Tooth radius r	10
Radius width C	1
Tooth width B1	5.3
Tooth width b1	5.2
Tooth width B2	15.2
Tooth width B3	25.6

CHAIN

	mm
Pitch	9.525
width bet ⁿ Inner Plates	5.72
Roller Dia	6.35

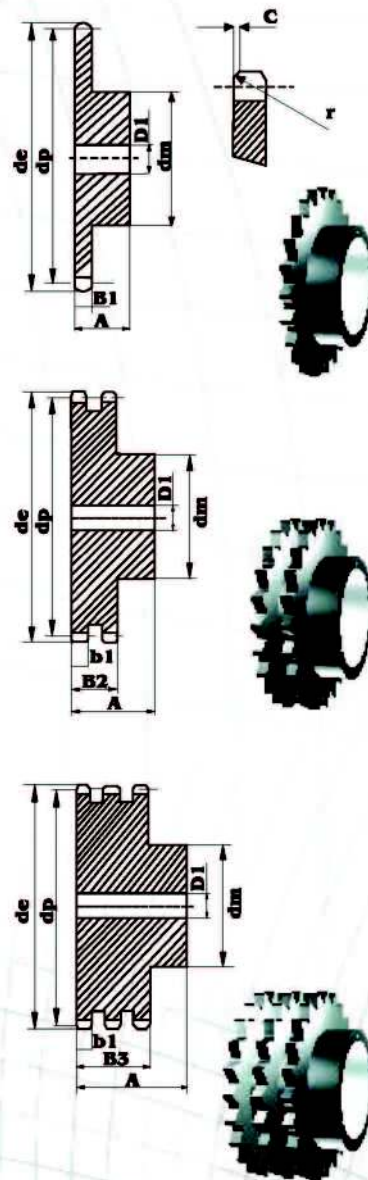
Material: C45
Weld-on-hub

SPROCKETS 1/2" X 5/16"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	37.2	33.18	20	10	25	20	10	32	20	10	46
9	41.0	37.13	24	10	25	24	10	32	24	12	46
10	45.2	41.10	26	10	25	28	10	32	28	12	46
11	48.7	45.07	29	10	25	32	12	35	32	14	50
12	53.0	49.07	33	10	28	35	12	35	35	14	50
13	57.4	53.07	37	10	28	38	12	35	38	14	50
14	61.8	57.07	41	10	28	42	12	35	42	14	50
15	65.5	61.09	45	10	28	46	12	35	46	14	50
16	69.5	65.10	50	12	28	50	14	35	50	16	50
17	73.6	69.11	52	12	28	54	14	35	54	16	50
18	78.8	73.14	56	12	28	58	14	35	58	16	50
19	81.7	77.16	60	12	28	62	14	35	62	16	50
20	85.8	81.19	64	12	28	66	14	35	66	16	50
21	89.7	85.22	68	12	28	70	16	40	70	16	55
22	93.8	89.24	70	12	28	70	16	40	70	16	55
23	98.2	93.27	70	14	28	70	16	40	70	16	55
24	101.8	97.29	70	14	28	75	16	40	75	16	55
25	105.8	101.33	70	14	28	80	16	40	80	16	55
26	110.0	105.36	70	16	30	85	16	40	85	20	55
27	114.0	109.40	70	16	30	85	16	40	85	20	55
28	118.0	113.42	70	16	30	90	16	40	90	20	55
29	122.0	117.46	80	16	30	95	16	40	95	20	55
30	126.1	121.50	80	16	30	100	16	40	100	20	55
31	130.2	125.54	90	16	30	100	20	50	110	20	55
32	134.3	129.56	90	16	30	100	20	50	110	20	55
33	138.4	133.60	90	16	30	100	20	50	110	20	55
34	142.6	137.64	90	16	30	100	20	50	110	20	55
35	146.7	141.68	90	16	30	100	20	50	110	20	55
36	151.0	145.72	90	16	35	100	20	50	120	25	55
37	154.6	149.76	90	16	35	100	20	50	120	25	55
38	158.6	153.80	90	16	35	100	20	50	120	25	55
39	162.7	157.83	90	16	35	100	20	50	120	25	55
40	166.8	161.87	90	16	35	100	20	50	120	25	55
41	171.4	165.91	*90	16	40	*108	20	50	*120	25	60
42	175.4	169.94	*90	16	40	*108	20	50	*120	25	60
43	179.7	173.98	*90	16	40	*108	20	50	*120	25	60
44	183.8	178.02	*90	16	40	*108	20	50	*120	25	60
45	188.0	182.07	*90	16	40	*108	20	50	*120	25	60
46	192.1	186.10	*90	16	40	*108	20	50	*120	25	60
47	196.2	190.14	*90	16	40	*108	20	50	*120	25	60
48	200.3	194.18	*90	16	40	*108	20	50	*120	25	60
49	204.3	198.22	*90	16	40	*108	20	50	*120	25	60
50	208.3	202.26	*90	16	40	*108	20	50	*120	25	60
51	212.1	206.30	*90	16	40	*108	20	50	*120	25	60
52	216.1	210.34	*90	16	40	*108	20	50	*120	25	60
53	220.2	214.37	*90	16	40	*108	20	50	*120	25	60
54	224.1	218.43	*90	16	40	*108	20	50	*120	25	60
55	228.1	222.46	*90	16	40	*108	20	50	*120	25	60
56	232.2	226.50	*90	16	40	*108	20	50	*120	25	60
57	236.4	230.54	*90	16	40	*108	20	50	*120	25	60
58	240.5	234.58	*90	16	40	*108	20	50	*120	25	60
59	244.5	238.62	*90	16	40	*108	20	50	*120	25	60
60	248.6	242.66	*90	16	40	*108	20	50	*120	25	60
62	256.9	250.74	*90	16	40	*108	20	50	*120	25	60
64	265.1	258.82	*90	16	40	*108	20	50	*120	25	60
65	269.0	262.86	*90	16	40	*108	20	50	*120	25	60
66	273.0	266.91	*90	16	40	*108	20	50	*120	25	60
68	281.0	274.99	*90	16	40	*108	20	55	*120	25	60
70	289.0	283.07	*90	16	40	*108	20	55	*120	25	60
72	297.2	291.15	*90	16	40	*108	20	55	*120	25	60
75	309.2	303.28	*90	16	40	*108	20	55	*120	25	60
76	313.3	307.32	*90	16	40	*108	20	55	*120	25	60
78	321.4	315.40	*90	16	40	*108	20	55	*120	25	60
80	329.4	323.49	*90	16	40	*108	20	55	*120	25	60
85	349.0	343.69	*90	16	40	*110	20	55	*120	25	60
90	369.9	363.90	*90	16	40	*110	20	55	*120	25	60
95	390.1	384.11	*90	16	40	*110	20	55	*120	25	60
100	410.3	404.32	*90	16	40	*110	20	55	*120	25	60
110	450.7	444.74	*90	16	40	*110	20	55	*120	25	60
114	466.9	460.91	*90	16	40	*110	20	55	*120	25	60
120	491.2	485.16	*90	16	40	*110	20	55	*120	25	60
125	511.3	505.37	*90	16	40	*110	20	55	*120	25	60

SPROCKETS 1/2" x 5/16"

For Chain Acc to ISO 606
BSS 22B/ DIN 8187



SPROCKETS

	mm
Tooth radius r	13
Radius width C	1.3
Tooth width B1	7.2
Tooth width b1	7
Tooth width B2	21
Tooth width B3	34.9

CHAIN

	mm
Pitch	12.7
width bet ⁿ Inner Plates	7.75
Roller Dia	8.51

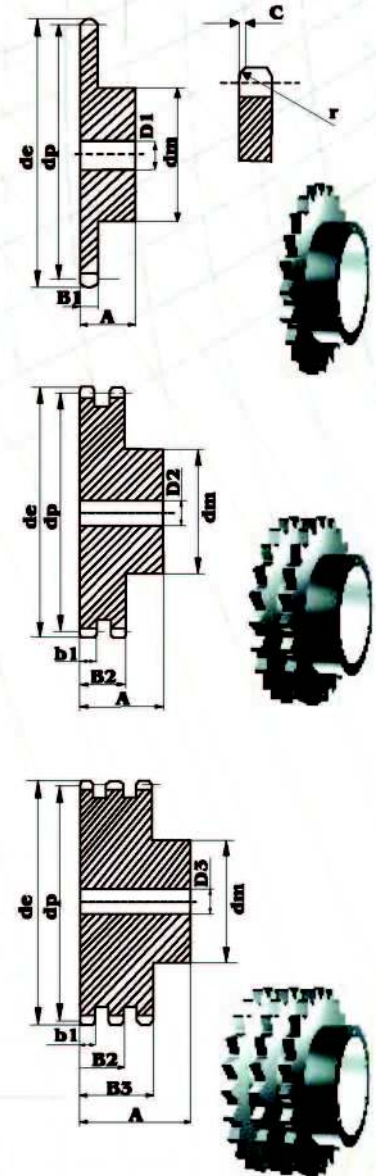
Material: C45
Weld-on-hub

SPROCKETS 5/8" X 3/8"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₂	A	d _m	D ₃	A
8	47.0	41.48	25	10	25	25	10	40	25	12	55
9	52.6	46.42	30	10	25	30	10	40	30	12	55
10	57.5	51.37	35	10	25	35	10	40	35	16	55
11	63.0	56.34	37	12	30	39	12	40	39	16	55
12	68.0	61.34	42	12	30	44	12	40	44	16	55
13	73.0	66.32	47	12	30	49	12	40	49	16	55
14	78.0	71.34	52	12	30	54	12	40	54	16	55
15	83.0	76.36	57	12	30	59	12	40	59	16	55
16	88.0	81.37	60	12	30	64	12	45	64	16	60
17	93.0	86.39	60	12	30	69	12	45	69	16	60
18	98.3	91.42	70	14	30	74	14	45	74	16	60
19	103.3	96.45	70	14	30	79	14	45	79	16	60
20	108.4	101.49	75	14	30	84	14	45	84	16	60
21	113.4	106.52	75	16	30	85	16	45	85	20	60
22	118.0	111.55	80	16	30	90	16	45	90	20	60
23	123.5	116.58	80	16	30	95	16	45	95	20	60
24	128.3	121.62	80	16	30	100	16	45	100	20	60
25	134.0	126.66	80	16	30	105	16	45	105	20	60
26	139.0	131.70	85	20	35	110	20	45	110	20	60
27	144.0	136.75	85	20	35	110	20	45	110	20	60
28	148.7	141.78	90	20	35	115	20	45	115	20	60
29	153.8	146.83	90	20	35	115	20	45	115	20	60
30	158.8	151.87	90	20	35	120	20	45	120	20	60
31	163.9	156.92	95	20	35	120	20	45	120	20	60
32	168.9	161.95	95	20	35	120	20	45	120	20	60
33	174.5	167.00	95	20	35	120	20	45	120	20	60
34	179.0	172.05	95	20	35	120	20	45	120	20	60
35	184.1	177.10	95	20	35	120	20	45	120	20	60
36	189.1	182.15	100	20	35	120	20	45	120	25	60
37	194.2	187.20	100	20	35	120	20	45	120	25	60
38	199.2	192.24	100	20	35	120	20	45	120	25	60
39	204.2	197.29	100	20	35	120	20	45	120	25	60
40	209.3	202.34	100	20	35	120	20	45	120	25	60
41	214.8	207.38	*100	20	40	*120	20	50	*130	25	60
42	219.9	212.43	*100	20	40	*120	20	50	*130	25	60
43	224.9	217.48	*100	20	40	*120	20	50	*130	25	60
44	230.0	222.53	*100	20	40	*120	20	50	*130	25	60
45	235.0	227.58	*100	20	40	*120	20	50	*130	25	60
46	240.1	232.63	*100	20	40	*120	20	50	*130	25	60
47	245.1	237.68	*100	20	40	*120	20	50	*130	25	60
48	250.2	242.73	*100	20	40	*120	20	50	*130	25	60
49	255.2	247.78	*100	20	40	*120	20	50	*130	25	60
50	260.3	252.82	*100	20	40	*120	20	50	*130	25	60
51	265.3	257.87	*100	20	40	*120	20	50	*130	25	60
52	270.4	262.92	*100	20	40	*120	20	50	*130	25	60
53	275.4	267.97	*100	20	40	*120	20	50	*130	25	60
54	280.5	273.03	*100	20	40	*120	20	50	*130	25	60
55	285.5	278.08	*100	20	40	*120	20	50	*130	25	60
56	290.6	283.13	*100	20	40	*120	20	50	*130	25	60
57	296.0	288.18	*100	20	40	*120	20	50	*130	25	60
58	300.7	293.23	*100	20	43	*120	20	57	*130	25	64
59	305.7	298.28	*100	20	43	*120	20	57	*130	25	64
60	310.8	303.33	*100	20	43	*120	20	57	*130	25	64
62	321.4	313.43	*100	20	43	*120	20	57	*130	25	64
64	331.5	323.53	*100	20	43	*120	20	57	*130	25	67
65	336.5	328.58	*100	20	43	*120	20	57	*130	25	67
66	341.6	333.64	*100	20	43	*120	20	57	*130	25	67
68	351.7	343.74	*100	20	43	*120	20	57	*130	25	67
70	361.8	353.84	*100	20	43	*120	20	57	*130	25	67
72	371.9	363.94	*100	20	43	*120	20	57	*130	25	67
75	387.1	379.10	*100	20	43	*120	20	57	*130	25	67
76	392.1	384.15	*100	20	43	*120	20	57	*130	25	67
78	402.2	394.25	*100	20	43	*130	20	57	*130	25	67
80	412.3	404.36	*100	20	43	*130	20	57	*130	25	67
85	437.6	429.62	*100	20	50	*130	20	58	*130	25	67
90	462.8	454.88	*100	20	50	*130	20	58	*130	25	67
95	488.5	480.14	*100	20	50	*130	20	58	*130	25	67
100	513.4	505.40	*100	20	50	*130	20	58	*130	25	67
110	563.9	555.92	*100	20	50	*130	20	58	*130	25	67
114	584.1	576.13	*100	20	50	*130	20	58	*130	25	67
120	614.4	606.45	*100	20	50	*130	20	58	*130	25	67
125	639.7	631.51	*100	20	50	*130	20	58	*130	25	67

SPROCKETS 5/8" x 3/8"

For Chain Acc to ISO 606
BS 22B/ DIN 8187



SPROCKETS

mm

Tooth radius r	16
Radius width C	1.6
Tooth width B ₁	9.1
Tooth width b ₁	9
Tooth width B ₃	25.5
Tooth width B ₃	42.1

CHAIN

mm

Pitch	15.875
width bet ⁿ Inner Plates	9.65
Roller Dia	10.16

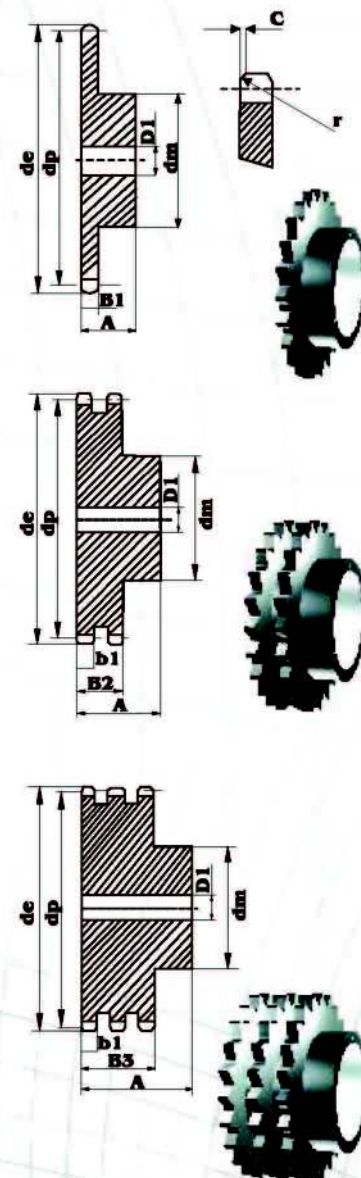
Material: C45
Weld-on-hub

SPROCKETS 3/4" X 7/16"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	57.6	49.78	31	12	30	31	12	45	31	16	65
9	62.0	55.70	37	12	30	37	12	45	37	16	65
10	69.0	61.64	42	12	30	42	12	45	42	16	65
11	75.0	67.61	46	14	35	47	16	50	47	20	70
12	81.5	73.61	52	14	35	53	16	50	53	20	70
13	87.5	79.59	58	14	35	59	16	50	59	20	70
14	93.6	85.61	64	14	35	65	16	50	65	20	70
15	99.8	91.63	70	14	35	71	16	50	71	20	70
16	105.5	97.65	75	16	35	77	20	50	77	20	70
17	111.5	103.67	80	16	35	83	20	50	83	20	70
18	118.0	109.71	80	16	35	89	20	50	89	20	70
19	124.0	115.75	80	16	35	95	20	50	95	20	70
20	129.7	121.78	80	16	35	100	20	50	100	20	70
21	136.0	127.82	90	20	40	100	20	50	100	20	70
22	141.8	133.86	90	20	40	100	20	50	100	20	70
23	149.0	139.90	90	20	40	110	20	50	110	20	70
24	153.9	145.94	90	20	40	110	20	50	110	20	70
25	160.0	152.00	90	20	40	120	20	50	120	20	70
26	165.9	158.04	95	20	40	120	20	50	120	20	70
27	172.3	164.09	95	20	40	120	20	50	120	20	70
28	178.0	170.13	95	20	40	120	20	50	120	20	70
29	184.1	176.19	95	20	40	120	20	50	120	20	70
30	190.5	182.25	95	20	40	120	20	50	120	20	70
31	196.3	186.31	95	20	40	120	20	50	130	25	70
32	203.3	194.35	95	20	40	120	20	50	130	25	70
33	209.3	200.40	95	20	40	120	20	50	130	25	70
34	214.6	206.46	95	20	40	120	20	50	130	25	70
35	221.0	212.52	95	20	40	120	20	50	130	25	70
36	226.8	218.58	100	20	40	120	25	50	130	25	70
37	232.9	224.64	100	20	40	120	25	50	130	25	70
38	239.0	230.69	100	20	40	120	25	50	130	25	70
39	245.1	236.75	100	20	40	120	25	50	130	25	70
40	251.3	242.81	100	20	40	120	25	50	130	25	70
41	257.3	248.86	*110	20	56	*136	25	62	*140	25	70
42	264.5	254.92	*110	20	56	*136	25	62	*140	25	70
43	270.5	260.98	*110	20	56	*136	25	62	*140	25	70
44	276.5	267.03	*110	20	56	*136	25	62	*140	25	70
45	282.5	273.09	*110	20	56	*136	25	62	*140	25	70
46	287.9	279.15	*110	20	56	*136	25	62	*140	25	70
47	294.0	285.21	*110	20	56	*136	25	62	*140	25	70
48	300.1	291.27	*110	20	56	*136	25	62	*140	25	70
49	306.2	297.33	*110	20	56	*136	25	62	*140	25	70
50	312.3	303.39	*110	20	56	*136	25	62	*140	25	70
51	316.4	309.45	*110	20	56	*136	25	62	*140	25	70
52	324.5	315.51	*110	20	56	*136	25	62	*140	25	70
53	330.5	321.57	*110	20	56	*136	25	62	*140	25	70
54	336.6	327.63	*110	20	56	*136	25	62	*140	25	70
55	342.7	333.69	*110	20	56	*136	25	62	*140	25	70
56	348.7	339.75	*110	20	56	*136	25	62	*140	25	70
57	355.4	345.81	*110	20	56	*136	25	62	*140	25	70
58	361.5	351.87	*110	20	56	*136	25	62	*140	25	70
59	367.5	357.93	*110	20	56	*136	25	62	*140	25	70
60	373.0	363.99	*110	20	56	*136	25	62	*140	25	70
62	385.1	376.12	*110	20	56	*140	25	62	*140	25	70
64	397.2	388.24	*110	20	56	*140	25	63	*140	25	70
65	403.2	394.30	*110	20	56	*140	25	63	*140	25	70
66	409.3	400.36	*110	20	56	*140	25	63	*140	25	70
68	421.4	412.49	*110	20	56	*140	25	63	*140	25	70
70	433.6	424.61	*110	20	56	*140	25	63	*140	25	70
72	447.0	436.73	*110	20	56	*140	25	63	*140	25	70
75	463.9	454.92	*110	20	56	*140	25	63	*140	25	70
76	469.9	460.98	*110	20	56	*140	25	63	*140	25	70
78	482.1	473.10	*110	20	56	*140	25	63	*140	25	70
80	494.2	485.23	*110	20	56	*140	25	63	*140	25	70
85	524.5	515.54	*110	20	56	*140	25	63	*140	25	70
90	554.8	545.85	*110	20	56	*140	25	63	*140	25	70
95	585.1	576.17	*110	20	56	*140	25	63	*140	25	70
100	615.4	606.48	*110	20	56	*140	25	63	*140	25	70
110	676.1	667.11	*110	20	56	*140	25	63	*140	25	70
114	700.6	691.36	*110	20	56	*140	25	63	*140	25	70
120	736.7	727.74	*110	20	56	*140	25	63	*140	25	70
125	767.0	758.06	*110	20	56	*140	25	63	*140	25	70

SPROCKETS 3/4" x 7/16"

For Chain Acc to ISO 606
BS 22B/ DIN 8187



SPROCKETS

mm

Tooth radius r	19
Radius width C	2
Tooth width B1	11.1
Tooth width b1	10.8
Tooth width B2	30.3
Tooth width B3	49.8

CHAIN

mm

Pitch	19.05
width bet ⁿ Inner Plates	11.68
Roller Dia	12.07

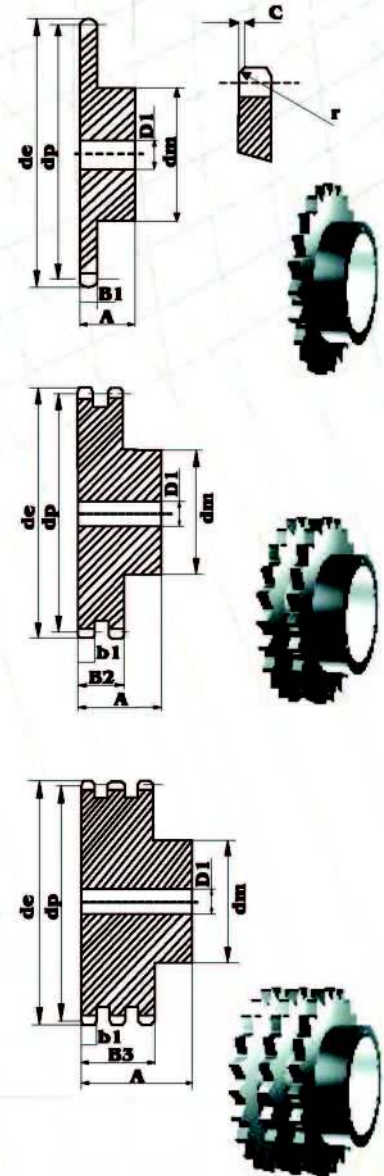
Material: C45
Weld-on-hub

SPROCKETS 1" X 17 mm"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	77.0	66.37	42	12	35	42	16	65	42	20	95
9	85.0	74.27	50	12	35	50	16	65	50	20	95
10	93.0	82.19	55	12	35	56	16	65	56	20	95
11	101.5	90.14	61	14	40	64	20	70	64	25	100
12	109.0	98.14	69	14	40	72	20	70	72	25	100
13	117.0	106.12	78	14	40	80	20	70	80	25	100
14	125.0	114.15	84	14	40	88	20	70	88	25	100
15	133.0	122.17	92	14	40	96	20	70	96	25	100
16	141.0	130.20	100	16	45	104	20	70	104	25	100
17	149.0	138.22	100	16	45	112	20	70	112	25	100
18	157.0	146.28	100	16	45	120	20	70	120	25	100
19	165.2	154.33	100	16	45	128	20	70	128	25	100
20	173.2	162.38	100	16	45	130	20	70	130	25	100
21	181.2	170.43	110	20	50	130	25	70	*130	25	100
22	189.3	178.48	110	20	50	*130	25	70	*130	25	100
23	197.5	186.53	110	20	50	*130	25	70	*130	25	100
24	205.5	194.59	110	20	50	*130	25	70	*130	25	100
25	213.5	202.66	110	20	50	*130	25	70	*130	25	100
26	221.6	210.72	120	20	50	*130	25	70	*130	30	100
27	229.6	218.79	120	20	50	*130	25	70	*130	30	100
28	237.7	226.85	120	20	50	*130	25	70	*130	30	100
29	245.8	234.92	120	20	50	*130	25	70	*130	30	100
30	254.0	243.00	120	20	50	*130	25	70	*130	30	100
31	262.0	251.08	*120	20	50	*140	25	70	*140	30	100
32	270.0	259.13	*120	20	50	*140	25	70	*140	30	100
33	278.5	267.21	*120	20	50	*140	25	70	*140	30	100
34	287.0	275.28	*120	20	50	*140	25	70	*140	30	100
35	296.2	283.36	*120	20	50	*140	25	70	*140	30	100
36	304.6	291.44	*120	20	50	*140	25	70	*140	30	100
37	312.6	299.51	*120	20	50	*140	25	70	*140	30	100
38	320.7	307.59	*120	20	50	*140	25	70	*140	30	100
39	328.8	315.67	*120	20	50	*140	25	70	*140	30	100
40	336.9	323.75	*120	20	50	*140	25	70	*140	30	100
41	345.0	331.81	*125	20	68	*140	25	70	*160	30	100
42	353.0	339.89	*125	20	68	*140	25	70	*160	30	100
43	361.1	347.97	*125	20	68	*140	25	70	*160	30	100
44	369.1	356.05	*125	20	68	*140	25	70	*160	30	100
45	377.1	364.12	*125	20	68	*140	25	70	*160	30	100
46	385.2	372.20	*125	20	68	*140	25	70	*160	30	100
47	393.2	380.28	*125	20	68	*140	25	70	*160	30	100
48	401.3	388.36	*125	20	68	*140	25	70	*160	30	100
49	409.3	396.44	*125	20	68	*140	25	70	*160	30	100
50	417.4	404.52	*125	20	68	*140	25	70	*160	30	100
51	425.5	412.60	*125	20	68	*150	25	85	*180	30	110
52	433.6	420.68	*125	20	68	*150	25	85	*180	30	110
53	441.7	428.76	*125	20	68	*150	25	85	*180	30	110
54	448.3	436.84	*125	20	68	*150	25	85	*180	30	110
55	457.9	444.92	*125	20	68	*150	25	85	*180	30	110
56	466.0	453.01	*125	20	68	*150	25	85	*180	30	110
57	474.0	461.08	*125	20	68	*150	25	85	*180	30	110
58	482.1	469.16	*125	20	68	*150	25	85	*180	30	110
59	490.2	477.24	*125	20	68	*150	25	85	*180	30	110
60	498.3	485.33	*125	20	68	*150	25	85	*180	30	110
62	514.5	501.49	*125	20	68	*150	25	85	*180	30	110
64	530.7	517.65	*125	20	68	*160	25	90	*180	30	110
65	538.8	525.73	*125	20	68	*160	25	90	*180	30	110
66	546.8	533.80	*125	20	68	*160	25	90	*180	30	110
68	562.9	549.98	*125	20	68	*160	25	90	*180	30	110
70	579.2	566.15	*125	20	68	*160	25	90	*180	30	110
72	595.4	582.31	*125	20	68	*160	25	90	*180	30	110
75	619.7	606.56	*125	20	68	*160	25	90	*180	30	110
76	627.0	614.64	*125	20	68	*160	25	90	*180	30	110
78	643.3	630.81	*125	20	68	*160	25	90	*180	30	110
80	660.0	646.97	*125	20	68	*160	25	90	*180	30	110
85	699.9	687.39	*125	20	78	*160	25	90	*180	30	110
90	740.3	727.80	*125	20	78	*160	25	90	*180	30	110
95	781.1	768.22	*125	20	78	*160	25	90	*180	30	110
100	821.1	808.64	*125	20	78	*160	25	90	*180	30	110
110	902.0	889.48	*125	20	78	*160	25	90	*180	30	110
114	934.3	921.81	*125	20	78	*160	25	90	*180	30	110
120	982.8	970.32	*125	20	78	*160	25	90	*180	30	110
125	1023.3	1010.73	*125	20	78	*160	25	90	*180	30	110

SPROCKETS 1" x 17.02mm

For Chain Acc to ISO 606
BS 22B/ DIN 8187



SPROCKETS mm

Tooth radius r	26
Radius width C	2.5
Tooth width B1	16.2
Tooth width b1	15.8
Tooth width B2	47.7
Tooth width B3	79.6

CHAIN mm

Pitch	25.4
width bet ⁿ Inner Plates	17.02
Roller Dia	15.88

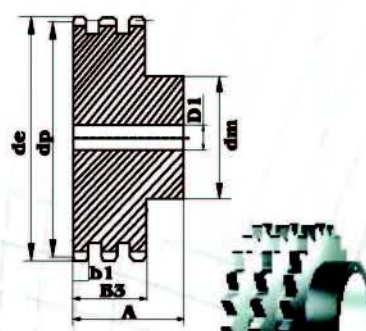
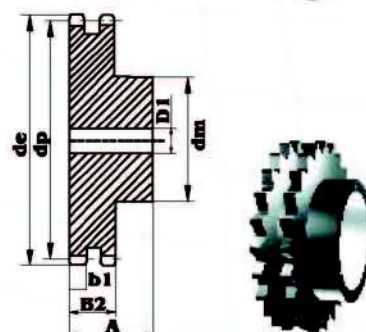
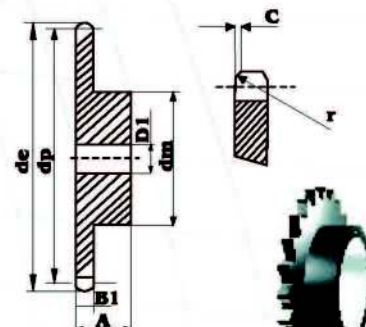
Material :C 45
•Weld-on hub

SPROCKETS 1" 1/4" X 3/4"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	98.1	82.96	53	20	40	53	20	75	53	20	110
9	108.0	92.84	63	20	40	63	20	75	63	20	110
10	117.9	102.74	70	20	40	70	20	75	70	20	110
11	127.8	112.68	77	20	45	80	20	80	80	20	115
12	137.8	122.68	88	20	45	90	20	80	90	20	115
13	147.8	132.65	98	20	45	100	20	80	100	20	115
14	157.8	142.68	108	20	45	110	20	80	110	20	115
15	167.9	152.72	118	20	45	120	20	80	120	20	115
16	177.9	162.75	120	20	50	120	25	80	120	25	115
17	187.9	172.78	120	25	50	120	25	80	120	25	115
18	198.0	182.85	120	25	50	*120	25	80	*120	25	115
19	208.1	192.91	120	25	50	*120	25	80	*120	25	115
20	218.1	202.98	120	25	50	*120	25	80	*120	25	115
21	228.2	213.04	140	25	55	*140	25	80	*140	25	115
22	238.3	223.11	140	25	55	*140	25	80	*140	25	115
23	248.3	233.17	140	25	55	*140	25	80	*140	25	115
24	258.4	243.23	140	25	55	*140	25	80	*140	25	115
25	268.5	253.33	140	25	55	*140	25	80	*140	25	115
26	278.6	263.40	*150	25	55	*150	25	80	*150	25	115
27	288.6	273.49	*150	25	55	*150	25	80	*150	25	115
28	298.7	283.56	*150	25	55	*150	25	80	*150	25	115
29	308.6	293.65	*150	25	55	*150	25	80	*150	25	115
30	316.9	303.75	*150	25	55	*150	25	80	*150	25	115
31	329.0	313.85	*150	25	55	*150	25	80	*150	30	115
32	339.1	323.91	*150	25	55	*150	25	80	*150	30	115
33	349.2	334.01	*150	25	55	*150	25	80	*150	30	115
34	359.3	344.10	*150	25	55	*150	25	80	*150	30	115
35	369.4	354.20	*150	25	55	*150	25	80	*150	30	115
36	379.5	364.30	*150	25	55	*150	25	80	*150	30	115
37	389.5	374.39	*150	25	55	*150	25	80	*150	30	115
38	389.6	384.49	*150	25	55	*150	25	80	*150	30	115
39	409.7	394.59	*150	25	55	*150	25	80	*150	30	115
40	419.8	404.69	*150	25	55	*150	25	80	*150	30	115
41	429.9	414.77	*150	25	70	*160	25	90	*160	30	110
42	440.0	424.86	*150	25	70	*160	25	90	*160	30	110
43	450.1	434.96	*150	25	70	*160	25	90	*160	30	110
44	460.2	445.06	*150	25	70	*160	25	90	*160	30	110
45	470.3	455.17	*150	25	70	*160	25	90	*160	30	110
46	480.4	465.25	*150	25	70	*160	25	90	*160	30	110
47	490.5	475.35	*150	25	70	*160	25	90	*160	30	110
48	500.6	485.45	*150	25	70	*160	25	90	*160	30	110
49	510.7	495.55	*150	25	70	*160	25	90	*160	30	110
50	520.8	505.65	*150	25	70	*160	25	90	*160	30	110
51	530.9	515.75	*150	25	80	*160	25	100	*180	30	123
52	541.0	525.85	*150	25	80	*160	25	100	*180	30	123
53	551.1	535.95	*150	25	80	*160	25	100	*180	30	123
54	561.2	546.05	*150	25	80	*160	25	100	*180	30	123
55	571.3	556.15	*150	25	80	*160	25	100	*180	30	123
56	581.4	566.25	*150	25	80	*160	25	100	*180	30	123
57	591.5	576.35	*150	25	80	*160	25	100	*180	30	123
58	601.6	586.45	*150	25	80	*160	25	100	*180	30	123
59	611.7	596.56	*150	25	80	*160	25	100	*180	30	123
60	621.8	606.66	*150	25	80	*160	25	100	*180	30	123
62	642.0	626.86	*150	25	80	*160	25	100	*180	30	123
64	662.2	647.07	*150	25	80	*160	25	100	*180	30	123
65	672.3	657.17	*150	25	80	*160	25	100	*180	30	123
66	682.4	667.27	*150	25	80	*180	25	100	*200	30	123
68	702.6	687.48	*150	25	80	*180	25	100	*200	30	123
70	722.8	707.68	*150	25	80	*180	25	100	*200	30	123
72	743.1	727.89	*150	25	80	*180	25	100	*200	30	123
75	773.3	758.20	*150	25	80	*180	25	100	*200	30	123
76	783.5	768.32	*150	25	80	*180	25	100	*200	30	123
80	823.9	808.71	*150	25	80	*180	25	100	*200	30	123
85	874.4	859.23	*150	25	90	*180	25	100	*200	30	123
90	924.9	909.76	*150	25	90	*180	25	100	*200	30	123
95	975.2	960.28	*150	25	90	*180	25	100	*200	30	123
100	1026.0	1010.80	*150	25	90	*180	25	100	*200	30	123
114	1167.4	1152.26	*150	25	90	*180	25	100	*200	30	126

SPROCKETS 1 1/4" x 3/4"

For Chain Acc to ISO 606
BS 22B/ DIN 8187



SPROCKETS

	mm
Tooth radius r	32
Radius width C	3.5
Tooth width B1	18.5
Tooth width b1	18.2
Tooth width B2	54.6
Tooth width B3	9.1

CHAIN

	mm
Pitch	31.75
width bet ⁿ Inner Plates	19.66
Roller Dia	19.05

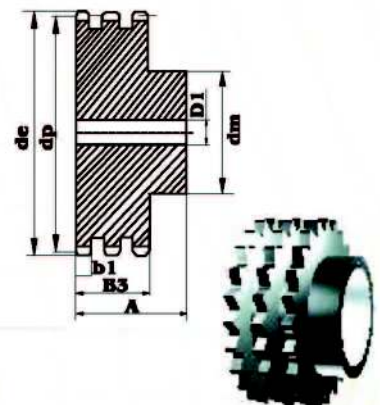
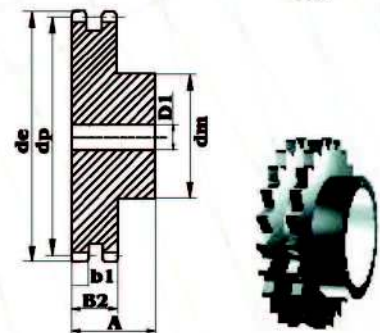
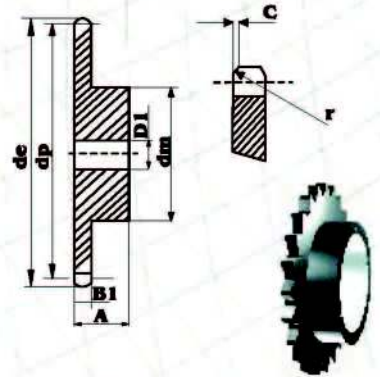
Material: C45
Weld-on-hub

SPROCKETS 1" 1/2" X 1"

z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₁	A	d _m	D ₁	A
8	115.0	99.55	58	20	45	58	25	95	58	25	140
9	126.4	111.40	70	20	45	70	25	95	70	25	140
10	138.0	123.29	80	20	45	80	25	95	80	25	140
11	150.0	135.21	90	25	50	90	25	100	90	25	150
12	162.0	147.22	102	25	50	102	25	100	102	25	150
13	174.2	159.18	114	25	50	114	25	100	114	25	150
14	186.2	171.22	128	25	50	128	25	100	128	25	150
15	198.2	183.26	132	25	50	132	25	100	132	25	150
16	210.3	195.30	*136	25	55	*136	25	100	*136	25	150
17	222.3	207.34	*136	25	55	*136	25	100	*140	25	150
18	234.3	219.42	*136	25	55	*150	25	100	*150	25	150
19	246.5	231.49	*136	25	55	*160	25	100	*160	25	150
20	258.6	243.57	*136	25	55	*160	25	100	*160	25	150
21	270.6	255.65	*150	25	60	*160	25	100	*160	30	150
22	282.7	267.73	*150	25	60	*160	25	100	*160	30	150
23	294.8	279.80	*150	25	60	*160	25	100	*160	30	150
24	306.8	291.88	*150	25	60	*160	25	100	*160	30	150
25	319.0	304.00	*150	25	60	*160	25	100	*160	30	150
26	331.0	316.08	*150	30	60	*160	30	100	*160	30	150
27	343.2	328.19	*150	30	60	*160	30	100	*160	30	150
28	355.2	340.27	*150	30	60	*160	30	100	*160	30	150
29	367.3	352.38	*150	30	60	*160	30	100	*160	30	150
30	379.5	364.50	*150	30	60	*160	30	100	*160	40	150
31	391.6	376.62	*150	30	60	*160	30	100	*160	40	150
32	403.7	388.69	*150	30	60	*160	30	100	*160	40	150
33	415.8	400.81	*150	30	60	*160	30	100	*160	40	150
34	427.8	412.93	*150	30	60	*160	30	100	*160	40	150
35	440.0	425.04	*150	30	60	*160	30	100	*160	40	150
36	452.0	437.16	*150	30	60	*160	30	100	*160	40	150
37	464.2	449.27	*150	30	60	*160	30	100	*160	40	150
38	476.2	461.39	*150	30	60	*160	30	100	*160	40	150
39	488.5	473.50	*150	30	60	*160	30	100	*160	40	150
40	500.6	485.62	*150	30	60	*160	30	100	*160	40	150
41	512.6	497.72	*160	30	90	*180	30	100	*200	40	150
42	524.7	509.83	*160	30	90	*180	30	100	*200	40	150
43	536.8	521.95	*160	30	90	*180	30	100	*200	40	150
44	549.0	534.07	*160	30	90	*180	30	100	*200	40	150
45	561.2	546.19	*160	30	90	*180	30	100	*200	40	150
46	573.3	558.30	*160	30	90	*180	30	100	*200	40	150
47	585.4	570.42	*160	30	90	*180	30	100	*200	40	150
48	597.4	582.54	*160	30	90	*180	30	100	*200	40	150
49	609.5	594.66	*160	30	90	*180	30	100	*200	40	150
50	621.7	606.78	*160	30	90	*180	30	100	*200	40	150
51	633.8	618.90	*160	30	100	*180	30	110	*200	40	150
52	646.0	631.01	*160	30	100	*180	30	110	*200	40	150
53	658.0	643.13	*160	30	100	*180	30	110	*200	40	150
54	670.2	655.28	*160	30	100	*180	30	110	*200	40	150
55	682.3	667.40	*160	30	100	*180	30	110	*200	40	150
56	694.4	679.51	*160	30	100	*180	30	110	*200	40	150
57	706.5	691.63	*160	30	100	*180	30	110	*200	40	150
58	718.6	703.74	*160	30	100	*180	30	110	*200	40	150
59	730.7	715.86	*160	30	100	*180	30	110	*200	40	150
60	742.8	727.97	*160	30	100	*180	30	110	*200	40	150
62	767.2	752.24	*160	30	100	*180	30	110	*200	40	150
64	791.3	776.48	*160	30	100	*200	30	110	*220	40	150
65	803.4	788.59	*160	30	100	*200	30	110	*220	40	150
66	815.6	800.71	*160	30	100	*200	30	120	*220	40	150
68	839.8	824.98	*160	30	100	*200	30	120	*220	40	150
70	864.2	849.21	*160	30	100	*200	30	120	*220	40	150
72	888.4	873.48	*160	30	100	*200	30	120	*220	40	150
75	924.8	909.83	*160	30	100	*200	30	120	*220	40	150
76	936.9	921.98	*160	30	100	*200	30	120	*220	40	150
80	985.4	970.44	*160	30	100	*200	30	120	*220	40	150
85	1046.0	1031.10	*160	30	100	*200	30	120	*220	40	150
90	1167.3	1152.33	*160	30	100	*200	30	120	*220	40	150

SPROCKETS 1" 1/2" x 1"

For Chain Acc to ISO 606
BS 22B/ DIN 8187



SPROCKETS

mm

Tooth radius r	38
Radius width C	4
Tooth width B1	24.1
Tooth width b1	23.6
Tooth width B2	72
Tooth width B3	120.3

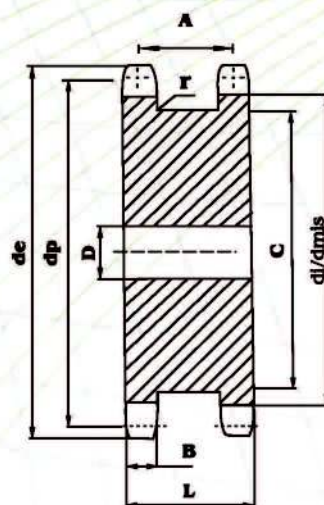
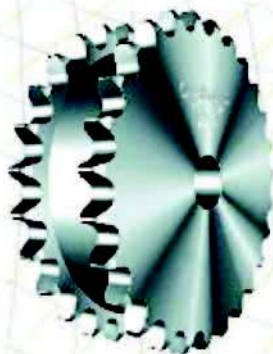
CHAIN

mm

Pitch	38.1
width bet ^a Inner Plates	25.4
Roller Dia	25.4

Material: C45
Weld-on-hub

Double-Single Sprockets (Tandem/ Dual) ISO606/BS228/DIN8187



Type	Z	de	dp	dl	dmis	D	A	B h14	C max	L
3/8" x 7/32" R6.35 06B-1	13	43.0	39.80	33.45	33.16	10	20.3	5.3	28	25.5
	15	49.3	45.81	39.46	39.21	10	20.3	5.3	34	25.5
	17	55.3	51.84	45.49	45.27	12	20.3	5.3	40	25.5
	19	61.3	57.87	51.52	51.32	12	20.3	5.3	46	25.5
	21	68.0	63.91	57.56	57.38	15	20.3	5.3	52	25.5
	23	73.5	69.95	63.60	63.44	15	20.3	5.3	59	25.5
	25	80.0	76.00	69.65	69.50	15	20.3	5.3	65	25.5

1/2" x 5/16" R8.51 08B-1	13	57.4	53.07	44.56	44.17	10	24.8	7.2	37	32
	15	65.5	61.08	52.57	52.24	10	24.8	7.2	45	32
	17	73.6	69.12	60.61	60.31	12	24.8	7.2	53	32
	19	81.7	77.16	68.65	68.39	12	24.8	7.2	62	32
	21	89.7	85.21	76.71	76.46	15	24.8	7.2	70	32
	23	98.2	93.27	84.76	84.54	15	24.8	7.2	78	32
	25	105.8	101.33	92.82	92.62	15	24.8	7.2	86	32

5/8" x 3/8" R10.16 10B-1	13	73.0	66.33	56.17	55.69	15	27.9	9.1	48	37
	15	83.0	76.35	66.19	65.78	15	27.9	9.1	58	37
	17	93.0	86.39	76.23	75.87	15	27.9	9.1	68	37
	19	130.3	96.45	86.29	85.96	19	27.9	9.1	79	37
	21	113.4	106.51	96.35	96.06	19	27.9	9.1	89	37
	23	123.4	116.59	106.43	106.15	19	27.9	9.1	99	37
	25	134.0	126.66	116.50	116.25	19	27.9	9.1	109	37

3/4" x 7/16" R12.07 12B-1	13	87.5	79.60	67.53	66.95	20	33.9	11.1	59	45
	15	99.8	91.63	79.56	79.05	20	33.9	11.1	71	45
	17	111.5	103.67	91.60	91.18	20	33.9	11.1	83	45
	19	124.2	115.74	103.67	103.27	20	33.9	11.1	95	45
	21	136.0	127.82	115.75	115.39	24	33.9	11.1	107	45
	23	149.0	139.90	127.75	127.51	24	33.9	11.1	119	45
	25	160.0	151.99	139.92	139.62	24	33.9	11.1	131	45

1" x 17.02 R15.88 16B-1	13	117.0	106.14	90.26	89.48	24	47.8	16.2	78	64
	15	133.0	122.17	106.29	105.62	24	47.8	16.2	95	64
	17	149.0	138.23	122.35	121.76	24	47.8	16.2	111	64
	19	165.2	154.32	138.44	137.91	24	47.8	16.2	127	64
	21	181.2	170.42	154.54	154.06	24	47.8	16.2	143	64

R = Roller Dia