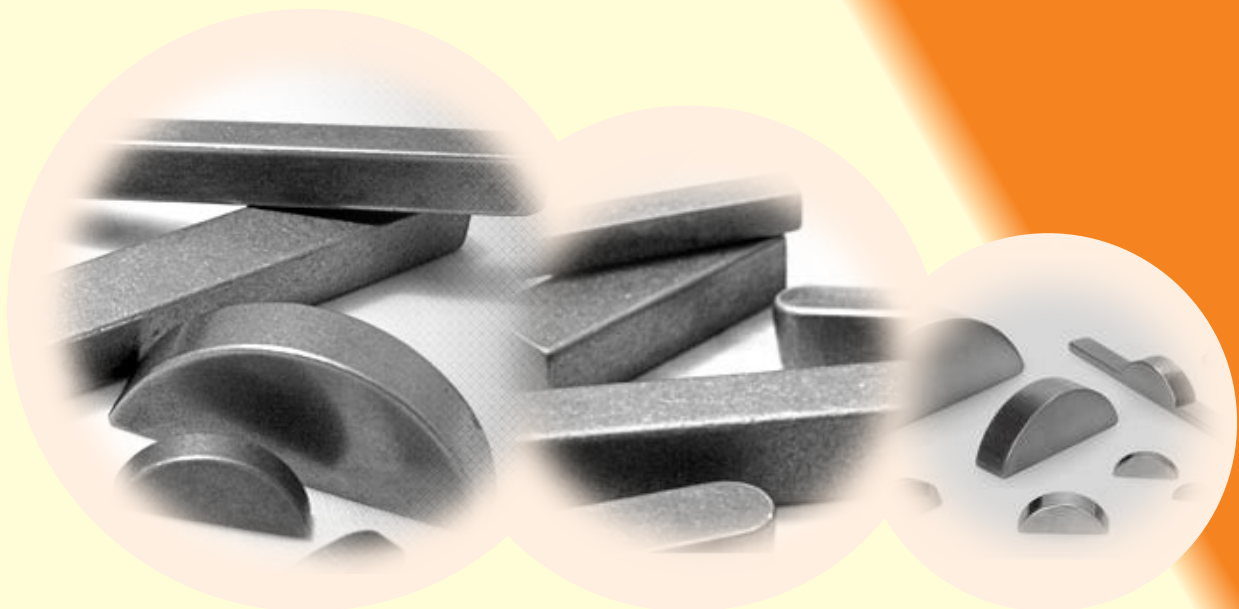




Innovation Engineering



A WARM WELCOME

...to **INNOVATION ENGINEERING** Manufacturer and Supplier of All Industrial keys and Engineering innovative products.

We are specialists in the manufacture and distribution of connection elements and key parts according to draft...

Experts in the manufacture of parallel keys and a wide variety of following keys with standards

- * Parallel Keys DIN 6885 TYPE A-B-AB-C-D-AS-E-F-G-H & IS:2048
- * GIB-Head Key DIN 6887 & IS:2293
- * Woodruff Keys DIN 6888 & IS:2294
- * Flat Key Din 6883

We can also deliver keys standard and custom lengths, special tolerances and precision ground flat steel - blanks with machining allowance or completely machined to the customer's specifications.

Quality Policy

1. Ensure utmost customer satisfaction by manufacturing and supplying equipments of international quality, standards and to provide excellent customer support.
2. We serve at right time with high quality.
3. We are committed to continuously upgrade our knowledge and skills to improve the efficiency of our organization and strive for outstanding quality of our products.
4. Provide congenial clean working atmosphere with green work environment.

Manufacturing Standards

DIN	ISO	Indian Standard	JIS	Metric/Inch's
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Materials

EN-8	EN-9	EN-1	EN-24	EN-31	EN-36	SS-304	SS-316	SS-410
OHNS		HCHCR		Alloy Steel		Duplex		

Surface Treatments & Protection

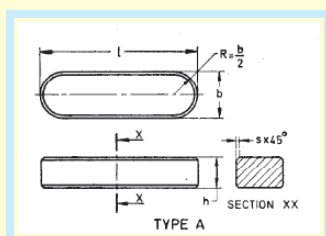
- * Annealed, Hardened & Tempered, case hardened, Nitrating
- * Galvanized, Nickel plated, Phosphates, Burnished, Blackened, Chrome plated,

Our Material & Quality Strength

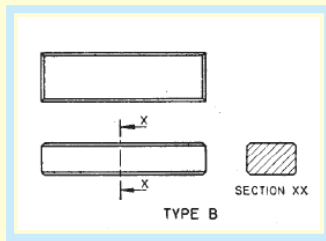
- * Mechanical properties as per standard ,
- * Hardness , Tensile strength
- * Our Key is free from cracks with Good finish
- * Resistance to corrosion, abrasion head & chemical
- * Dimension Accuracy as per standards

F OUR PRODUCTS F

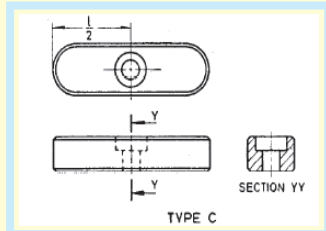
Parallel Keys Din 6885



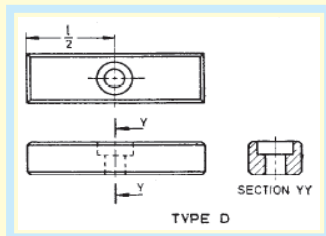
DIN 6885 TYPE-A (Both End Round)



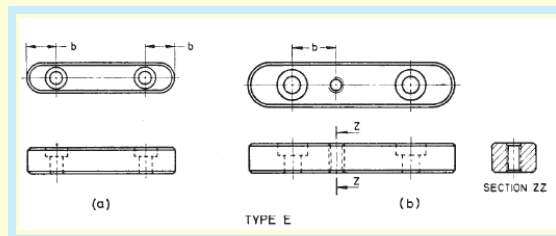
DIN 6885 TYPE-B (Both End Round)



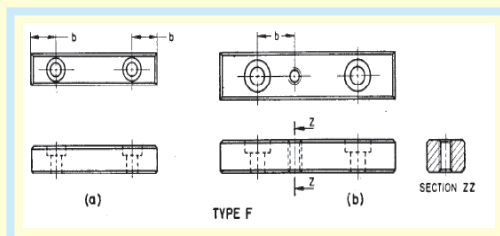
DIN 6885 TYPE-C (Both End Round with Screw)



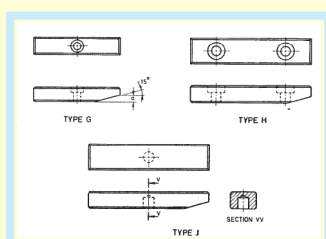
DIN 6885 TYPE-D (Both End Square with tapped Hole)



DIN 6885 TYPE-E (Both End Round with tapped Hole)



DIN 6885 TYPE-F (Both End Square with tapped Hole)



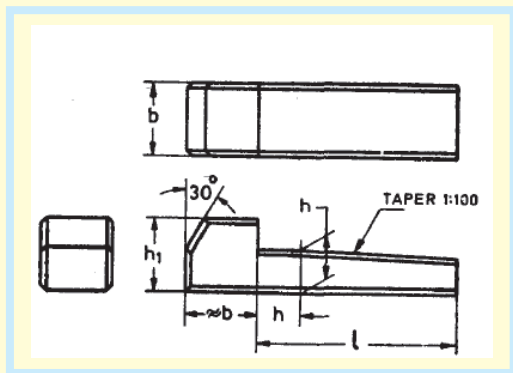
DIN 6885 TYPE-AB



TABLE 1 : DIMENSIONS FOR KEYS**(Clause 3.1 and Fig.1)****All dimensions in Millimeters.**

b	Tol on b p9	n	Tol on b	o	s		Range of Key Length l		Range of Key Length (for Machine Tools only)	
					Min	Max	Min	Max	Min	Max
2	0 -0.020	2	0 -0.025	-	0.16	0.25	6	20	-	-
3		3		-	0.16	0.25	6	36	-	-
4	0 -0.030	4	0 -0.030	-	0.16	0.25	8	45	10	45
5		5		-	0.25	0.40	10	56	12	56
6		6		-	0.25	0.40	14	70	15	70
8	0 -0.036	7	0 -0.090	3	0.25	0.40	18	90	20	90
10		8		3	0.40	0.60	22	110	25	110
12	0 -0.043	8		3	0.40	0.60	28	140	32	140
14		9		3.5	0.40	0.60	36	160	40	160
16		10		4	0.40	0.60	45	180	45	180
18		11	0 -0.110	4.5	0.40	0.60	50	200	50	200
20	0 -0.052	12		5	0.60	0.80	56	220	56	220
22		14		5.5	0.60	0.80	63	250	60	250
25		14		5.5	0.60	0.80	70	280	70	250
28		16		6.5	0.60	0.80	80	320	80	250
32	0 -0.082	18	0 -0.180	7	0.60	0.80	90	360	90	250
36		20		8	1.00	1.20	100	400	100	250
40		22		9	1.00	1.20	110	400	110	250
45		25		10	1.00	1.20	125	400	-	-
50		28		11	1.00	1.20	140	400	-	-
56	0 -0.074	32	0 -0.160	13	1.60	2.00	150	400	-	-
63		32		13	1.60	2.00	180	400	-	-
70		36		14	1.60	2.00	200	400	-	-
80		40		16	2.50	3.00	220	400	-	-
90	0 -0.087	45		18	2.50	3.00	250	400	-	-
100		50		20	2.50	3.00	280	400	-	-

GIB - Head Keys DIN 6887

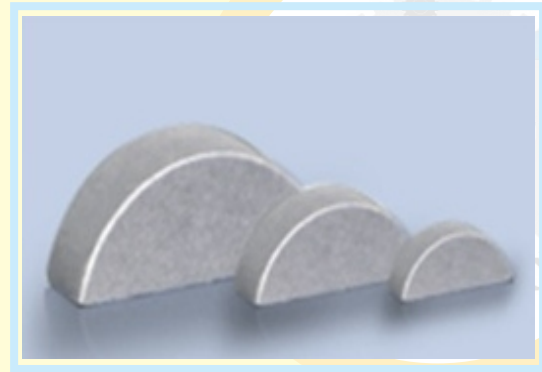
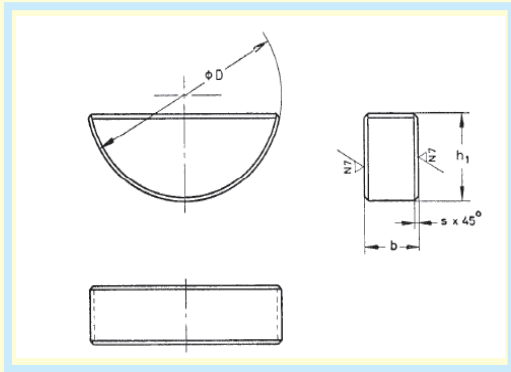


All dimensions in Millimeters

b	Tol on b p9	n	Tol on b	s		Range of Key Length l		h ₁
				Min	Max	Min	Max	
4	0 -0.030	4	0 -0.030	0.16	0.25	14	45	7
5		5		0.25	0.40	14	56	8
6		6		0.25	0.40	16	70	10
8	0 -0.036	7	0 -0.090	0.25	0.40	20	90	11
10		8		0.40	0.60	25	110	12
12	0 -0.043	8		0.40	0.60	32	140	12
14		9		0.40	0.60	40	160	14
16		10		0.40	0.60	45	180	16
18		11	0 -0.110	0.40	0.60	50	200	18
20	0 -0.052	12		0.60	0.80	56	220	20
22		14		0.60	0.80	63	250	22
25		14		0.60	0.80	70	280	22
28		16		0.60	0.80	80	320	25
32	0 -0.062	18		0.60	0.80	90	360	28
36		20	0 -0.130	1.00	1.20	100	400	32
40		22		1.00	1.20	110	400	36
45		25		1.00	1.20	125	400	40
50		28		1.00	1.20	140	400	45
56	0 -0.074	32	0 -0.160	1.60	2.00	-	-	50
63		32		1.60	2.00	-	-	50
70		36		1.60	2.00	-	-	56
80		40		2.50	3.00	-	-	63
90	0 -0.087	45		2.50	3.00	-	-	70
100		50		2.50	3.00	-	-	80

* Tol on h : Square section h9 ; Rectangular section h11.

Woodruff Keys DIN 6888



b	Tol on b h9*	h ₁	Tol on h ₁ h11	D	Tol on D h12	S	
						Min	Max
1'0	0 -0.025	1'4	0 -0.060	4'0	0 -0.120	0'16	0'25
1'5		2'6		7'0	0 -0.150	0'16	0'25
2'0		2'6		7'0		0'16	0'25
2'0		3'7	0 -0.075	10'0		0'16	0'25
2'5		3'7		10'0		0'16	0'25
3'0		5'0		13'0	0 -0.180	0'16	0'25
3'0		6'5	0 -0.090	16'0		0'16	0'25
4'0	0 -0.030	6'5		16'0	0 -0.210	0'25	0'40
4'0		7'5		19'0		0'25	0'40
5'0		6'5		10'0	0 -0.180	0'25	0'40
5'0		7'5		19'0	0 -0.210	0'25	0'40
5'0		9'0		22'0		0'25	0'40
5'0		9'0		22'0		0'25	0'40
5'0		10'0		25'0		0'25	0'40
8'0	0 -0.036	11'0	0 -0.110	28'0	0 -0.250	0'40	0'60
10'0		13'0		32'0		0'40	0'60

* A closer tolerance may be adopted subject to agreement between the supplier and the purchaser.

Application Sectors

- * Motor & Pumps Industry
- * Gear & Gear Boxes Industry
- * Generators & Valves
- * Power Transmission
- * Automobile Industry
- * Tractors & Machine Tools
- * Textile Machinery
- * SPM Manufacturers
- * Compressors & Agriculture Machine Manufacturers etc

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