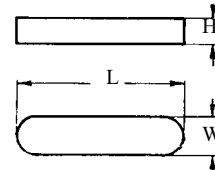


# Metric Shaft Keys DIN 6885 A

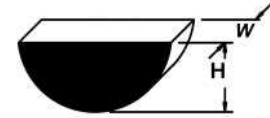


W x H x L

2x2x6	8x5x18	6x6x30	8x5x40	8x7x56	18x11x65	28x16x80	8x7x100	36x20x120	20x12x140
3x3x6	8x7x18	8x5x30	8x7x40	10x6x56	20x8x65		10x6x100	40x14x120	22x9x140
4x4x6	10x6x18	8x7x30	10x6x40	10x8x56	20x12x65	8x5x85	10x8x100	40x22x120	22x14x140
	10x8x18	10x6x30	10x8x40	12x6x56	22x9x65	8x7x85	12x6x100	45x16x120	25x9x140
2x2x8		10x8x30	12x6x40	12x8x56	22x14x65	10x6x85	12x8x100	45x25x120	25x14x140
3x3x8	2x2x20	12x6x30	12x8x40	14x6x56	25x9x65	10x8x85	14x6x100		28x10x140
4x4x8	3x3x20	12x8x30	14x6x40	14x9x56	25x14x65	12x6x85	14x9x100	8x7x125	28x16x140
	4x4x20	14x6x30	14x9x40	16x7x56		12x8x85	16x7x100	10x8x125	32x11x140
2x2x10	5x3x20	14x9x30	16x7x40	16x10x56	6x4x70	14x6x85	16x10x100	12x6x125	28x10x140
3x3x10	5x5x20	16x7x30	16x10x40	18x7x56	6x6x70	14x9x85	18x7x100	12x8x125	36x12x140
4x4x10	6x4x20	16x10x30		18x11x56	8x5x70	16x7x85	18x11x100	14x6x125	36x20x140
5x3x10	6x6x20		4x4x45	20x8x56	8x7x70	16x10x85	20x8x100	14x9x125	40x14x140
5x5x10	8x5x20	2x2x32	5x3x45	20x12x56	10x6x70	18x7x85	20x12x100	16x7x125	40x22x140
6x4x10	8x7x20	3x3x32	5x5x45		10x8x70	18x11x85	22x9x100	16x10x125	45x16x140
6x6x10	10x6x20	4x4x32	6x4x45	5x3x60	12x6x70	20x12x85	22x14x100	18x7x125	45x25x140
8x5x10	10x8x20	5x3x32	6x6x45	5x5x60	12x8x70	22x9x85	25x9x100	18x11x125	
8x7x10	12x6x20	5x5x32	8x5x45	6x4x60	14x6x70	22x14x85	25x14x100	20x8x125	8x7x150
	12x8x20	6x4x32	8x7x45	6x6x60	14x9x70	25x9x85	28x10x100	20x12x125	10x8x150
2x2x12		6x6x32	10x6x45	8x5x60	16x7x70	25x14x85	28x16x100	22x9x125	12x8x150
3x3x12	2x2x22	8x5x32	10x8x45	8x7x60	16x10x70	28x10x85	32x11x100	22x14x125	14x9x150
4x4x12	3x3x22	8x7x32	12x6x45	10x6x60	18x7x70	28x16x85	32x18x100	25x9x125	16x7x150
5x3x12	4x4x22	10x6x32	12x8x45	10x8x60	18x11x70	32x11x85	36x12x100	25x14x125	16x10x150
5x5x12	5x3x22	10x8x32	14x6x45	12x6x60	20x8x70	32x18x85	36x20x100	28x10x125	18x7x150
6x4x12	5x5x22	12x6x32	14x9x45	12x8x60	20x12x70			28x16x125	18x11x150
6x6x12	6x4x22	12x8x32	16x7x45	14x6x60	22x9x70	8x5x90	8x7x110	32x11x125	20x8x150
8x5x12	6x6x22	14x6x32	16x10x45	14x9x60	22x14x70	8x7x90	10x6x110	32x18x125	20x12x150
8x7x12	8x5x22	14x9x32	18x7x45	16x7x60	25x9x70	10x6x90	10x8x110	36x12x125	22x9x150
	8x7x22	16x7x32	18x11x45	16x10x60	25x14x70	10x8x90	12x6x110	36x20x125	22x14x150
2x2x14	10x6x22	16x10x32		18x7x60		12x6x90	12x8x110	40x14x125	25x9x150
3x3x14	10x8x22		4x4x50	18x11x60	6x4x75	12x8x90	14x6x110	40x22x125	25x14x150
4x4x14	12x6x22	2x2x35	5x3x50	20x8x60	6x6x75	14x6x90	14x9x110	45x16x125	28x10x150
5x3x14	12x8x22	3x3x35	5x5x50	20x12x60	8x5x75	14x9x90	16x7x110	45x25x125	28x16x150
5x5x14		4x4x35	6x4x50	22x9x60	8x7x75	16x7x90	16x10x110		32x11x150
6x4x14	2x2x25	5x3x35	6x6x50	22x14x60	10x6x75	16x10x90	18x7x110	8x7x130	32x18x150
6x6x14	3x3x25	5x5x35	8x5x50		10x8x75	18x7x90	18x11x110	10x8x130	36x12x150
8x5x14	4x4x25	6x4x35	8x7x50	5x3x63	12x6x75	18x11x90	20x8x110	12x6x130	36x20x150
8x7x14	5x3x25	6x6x35	10x6x50	5x5x63	12x8x75	20x8x90	20x12x110	12x8x130	40x14x150
10x6x14	5x5x25	8x5x35	10x8x50	6x4x63	14x6x75	20x12x90	22x9x110	14x6x130	40x22x150
10x8x14	6x4x25	8x7x35	12x6x50	6x6x63	14x9x75	22x9x90	22x14x110	14x9x130	45x16x150
	6x6x25	10x6x35	12x8x50	8x5x63	16x7x75	22x14x90	25x9x110	16x7x130	45x25x150
2x2x15	8x5x25	10x8x35	14x6x50	8x7x63	16x10x75	25x9x90	25x14x110	16x10x130	
3x3x15	8x7x25	12x6x35	14x9x50	10x6x63	18x7x75	25x14x90	28x10x110	18x7x130	8x7x160
4x4x15	10x6x25	12x8x35	16x7x50	10x8x63	18x11x75	28x10x90	28x16x110	18x11x130	10x8x160
5x3x15	10x8x25	14x6x35	16x10x50	12x6x63	20x8x75	28x16x90	32x11x110	20x8x130	12x8x160
5x4x15	12x6x25	14x9x35	18x7x50	12x8x63	20x12x75	32x11x90	32x18x110	20x12x130	14x9x160
6x4x15	12x8x25	16x7x35	18x11x50	14x6x63	22x9x75	32x18x90	36x12x110	22x9x130	16x7x160
6x6x15	14x6x25	16x10x35		14x9x63	22x14x75		36x20x110	22x14x130	16x10x160
8x5x15	14x9x25		5x3x55	16x7x63	25x9x75	8x7x95	40x14x110	25x9x130	18x7x160
8x7x15		2x2x36	5x4x55	16x10x63	25x14x75	10x6x95	40x22x110	25x14x130	18x11x160
10x6x15	2x2x28	3x3x36	6x4x55	18x7x63	28x10x75	10x8x95		28x10x130	20x8x160
10x8x15	3x3x28	4x4x36	6x6x55	18x11x63	28x16x75	12x6x95	8x7x120	28x16x130	20x12x160
	4x4x28	5x3x36	8x5x55	20x8x63		12x8x95	10x8x120	32x11x130	22x9x160
2x2x16	5x3x28	5x4x36	8x7x55	20x12x63	8x5x80	14x6x95	12x6x120	32x18x130	22x14x160
3x3x16	5x5x28	6x4x36	10x6x55	22x9x63	8x7x80	14x9x95	12x8x120	36x12x130	25x9x160
4x4x16	6x4x28	6x6x36	10x8x55	22x14x63	10x6x80	16x7x95	14x6x120	36x20x130	25x14x160
5x3x16	6x6x28	8x5x36	12x6x55		10x8x80	16x10x95	14x9x120	40x14x130	28x10x160
5x5x16	8x5x28	8x7x36	12x8x55	5x3x65	12x6x80	18x7x95	16x7x120	40x22x130	28x16x160
6x4x16	8x7x28	10x6x36	14x6x55	5x5x65	12x8x80	18x11x95	16x10x120	45x16x130	32x11x160
6x6x16	10x6x28	10x8x36	14x9x55	6x4x65	14x6x80	20x8x95	18x7x120	45x25x130	32x18x160
8x5x16	10x8x28	12x6x36	16x7x55	6x6x65	14x9x80	20x12x95	18x11x120		36x12x160
8x7x16	12x6x28	12x8x36	16x10x55	8x5x65	16x7x80	22x9x95	20x8x120	8x7x140	36x20x160
10x6x16	12x8x28	14x6x36	18x7x55	8x7x65	16x10x80	22x14x95	20x12x120	10x8x140	40x14x160
10x8x16	14x6x28	14x9x36	18x11x55	10x6x65	18x7x80	25x9x95	22x9x120	12x6x140	40x22x160
	14x9x28	16x7x36	20x8x55	10x8x65	18x11x80	25x14x95	22x14x120	12x8x140	45x16x160
2x2x18		16x10x36	20x12x55	12x6x65	20x8x80	28x10x95	25x9x120	14x6x140	45x25x160
3x3x18	2x2x30			12x8x65	20x12x80	28x16x95	25x14x120	14x9x140	
4x4x18	3x3x30	4x4x40	5x3x56	14x6x65	22x9x80	32x11x95	28x10x120	16x7x140	16x7x170
5x3x18	4x4x30	5x3x40	5x5x56	14x9x65	22x14x80	32x18x95	28x16x120	16x10x140	16x10x170
5x4x18	5x3x30	5x5x40	6x4x56	16x7x65	25x9x80	36x12x95	32x11x120	18x7x140	18x7x170
6x4x18	5x5x30	6x4x40	6x6x56	16x10x65	25x14x80	36x20x95	32x18x120	18x11x140	18x11x170
6x6x18	6x4x30	6x6x40	8x5x56	18x7x65	28x10x80		36x12x120	20x8x140	20x8x170



## Metric Shaft Keys DIN 6885 A



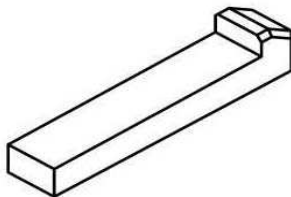
## Metric Woodruff Keys DIN 6888

W x H x L				
20x12x170	25x9x180	32x11x200	22x14x250	28x10x320
22x9x170	25x14x180	32x18x200	25x9x250	28x16x320
22x14x170	28x10x180	36x12x200	25x14x250	32x11x320
25x9x170	28x16x180	36x20x200	28x10x250	32x18x320
25x14x170	32x11x180	40x14x200	28x16x250	36x12x320
28x10x170	32x18x180	40x22x200	32x11x250	36x20x320
28x16x170	36x12x180	45x16x200	32x18x250	40x14x320
32x11x170	36x20x180	45x25x200	36x12x250	40x22x320
32x18x170	40x14x180		36x20x250	45x16x320
36x12x170	40x22x180	10x8x220	40x14x250	45x25x320
36x20x170	45x16x180	14x9x220	40x22x250	
40x14x170	45x25x180	22x9x220	45x16x250	32x11x360
40x22x170		22x14x220	45x25x250	32x18x360
45x16x170	8x7x200	25x9x220		36x12x360
45x25x170	10x8x200	25x14x220	25x9x280	36x20x360
	14x9x200	28x10x220	25x14x280	40x14x360
8x7x180	16x10x200	28x16x220	28x10x280	40x22x360
12x8x180	18x7x200	32x11x220	28x16x280	45x16x360
14x9x180	18x11x200	32x18x220	32x11x280	45x25x360
16x7x180	20x8x200	36x12x220	32x18x280	
16x10x180	20x12x200	36x20x220	36x12x280	36x12x400
18x7x180	22x9x200	40x14x220	36x20x280	36x20x400
18x11x180	22x14x200	40x22x220	40x14x280	40x14x400
20x8x180	25x9x200	45x16x220	40x22x280	40x22x400
20x12x180	25x14x200	45x25x220	45x16x280	45x16x400
22x9x180	28x10x200		45x25x280	45x25x400
22x14x180	28x16x200	22x9x250		

W x H x Ø		
1.5 x 2.6 x 7	5 x 6.5 x 16	8 x 16 x 45
1.5 x 3.7 x 10	5 x 7.5 x 19	10 x 13 x 32
2 x 2.6 x 7	6 x 7.5 x 19	
2 x 3.7 x 10	5 x 9 x 22	
2.5 x 3.7 x 10	6 x 9 x 22	
2.5 x 5 x 13	8 x 9 x 22	
3 x 3.7 x 10		
	5 x 10 x 25	
2 x 5 x 13	6 x 10 x 25	
3 x 5 x 13	8 x 10 x 25	
4 x 5 x 13	6 x 11 x 28	
	8 x 11 x 28	
	10 x 11 x 28	
3 x 6.5 x 16		
4 x 6.5 x 16		
4 x 9 x 22	8 x 13 x 32	

Ordering Examples:  
W 3x6.5x16

Ordering Examples:  
10x8x35



## Metric Gibhead Keys DIN 6887

Ordering Examples:  
G 10x8x40

## Metric Gibhead Keys DIN 6887

W x H x L			
5x5x40	12x8x50	18x11x63	22x14x200
6x6x40	12x8x55	18x11x70	
6x6x80	12x8x60	18x11x80	25x14x100
8x7x32	12x8x63	18x11x90	25x14x110
8x7x36	12x8x70	18x11x100	25x14x120
8x7x40	12x8x80	18x11x110	25x14x130
8x7x45	12x8x90	18x11x120	25x14x140
8x7x50	12x8x100	18x11x140	25x14x160
8x7x60		18x11x160	25x14x180
8x7x63	14x9x50	18x11x180	25x14x200
8x7x70	14x9x60		
8x7x80	14x9x63	20x12x80	28x16x125
8x7x100	14x9x70	20x12x90	28x16x140
	14x9x80	20x12x100	28x16x160
10x8x40	14x9x90	20x12x120	28x16x180
10x8x45	14x9x100	20x12x140	28x16x200
10x8x50	14x9x110	20x12x160	
10x8x56	14x9x120	20x12x180	32x18x160
10x8x60	14x9x160	20x12x200	32x18x180
10x8x63			32x18x200
10x8x70	16x10x60	22x14x100	32x18x260
10x8x80	16x10x70	22x14x110	
10x8x90	16x10x80	22x14x120	36x20x160
10x8x100	16x10x90	22x14x125	36x20x200
		22x14x140	36x20x220
		22x14x160	36x20x250
12x6x65	16x10x100		36x20x280
12x8x40			

# Metric Supporting Washers DIN 988



Material Spring Steel, Oil Dipped Hardness: HRC 44-49

Thickness (mm)						
1	1.2	1.5	2	2.5	3	3.5
3x6	6x12	13x19	20x28	30x42	45x55	65x85
4x8	7x13	14x20	22x30	32x45	45x56	70x90
5x10	8x14	15x21	22x32	35x45	48x60	75x95
	9x15	15x22	25x35	36x45	50x62	80x100
	10x16	16x22	25x36	37x47	52x65	85x105
	11x17	17x24	26x37	40x50	55x68	90x110
	12x18	18x25	28x40	42x52	56x70	95x115
		19x26			56x72	100x120
					60x75	100x125
					63x80	105x130
						110x140
						120x150
						130x160
						140x170
						150x180
						160x190
						170x200

**Ordering Example:**

SS3x6x1

SS .....Supporting Washers

3.....Inside Diameter

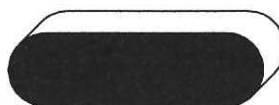
6.....Outside Diameter

1.....Thickness

1-049 - 80303

## Metric Key And Key Stock Assortment Kits

### KEYS IN PLASTIC CASE DIN 6885 25 KEY KIT



50 pcs 3x3x30	45 pcs 5x5x63	35 pcs 6x6x63	30 pcs 8x7x50	20 pcs 10x8x50	15 pcs 12x8x50
50 pcs 4x4x60	30 pcs 8x7x100		22 pcs 10x8x100		20 pcs 14x9x70
16 pcs 12x8x120	14 pcs 14x9x200				

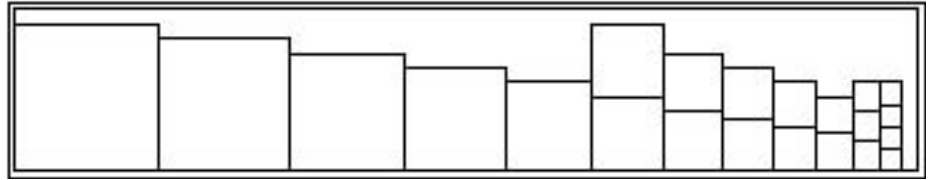
PIECES	SIZE
50	3x3x30
50	4x4x60
45	5x5x63
35	6x6x63
30	8x7x50
20	10x8x50
15	12x8x50
16	12x8x120
30	8x7x100
22	10x8x100
20	14x9x70
14	14x9x200

# Metric Key And Key Stock Assortment Kits

KEY STOCK IN STEEL CASE  
DIN 6880, ACCURACY h9  
IN 250mm LENGTHS



## 20 KIT

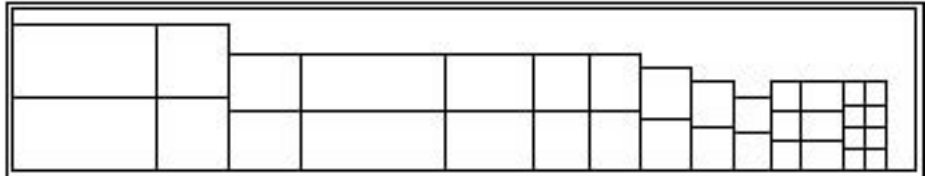


PIECES	SIZE
4	3 x 3
3	4 x 4
2	5 x 5
2	6 x 6

PIECES	SIZE
2	7 x 7
2	8 x 8
2	10 x 10
1	12 x 12

PIECES	SIZE
1	14 x 14
1	16 x 16
1	18 x 18
1	20 x 20

## 30 KIT



PIECES	SIZE
8	3 x 3
3	4 x 6
3	4 x 4
2	5 x 5

PIECES	SIZE
2	6 x 6
2	7 x 7
2	7 x 8
2	8 x 8

PIECES	SIZE
2	8 x 12
2	8 x 20
2	8 x 10
2	10 x 10
2	10 x 20

KEYS IN  
PLASTIC CASE  
DIN 6885 A  
24 KEY KIT



KEYS IN  
PLASTIC CASE  
DIN 6888  
WOODRUFF KEY KIT



PIECES	SIZE	PIECES	SIZE	PIECES	SIZE
10	3x3x10	10	6x6x12	5	10x8x50
10	4x4x10	10	6x6x20	5	12x6x50
10	4x4x20	10	6x6x35	5	12x8x30
10	5x3x20	10	8x5x16	5	12x8x50
10	5x5x10	10	8x7x16	5	14x9x32
10	5x5x20	10	8x7x25	5	14x9x60
10	5x5x30	10	8x7x45		
10	6x4x12	5	10x6x30		
10	6x4x30	5	10x8x25		

PIECES	SIZE	PIECES	SIZE
20	2x2.6x7	20	4x6.5x16
20	2x3.7x10	20	5x6.5x16
20	2.5x3.7x10	20	5x7.5x19
20	3x3.7x10	20	6x7.5x19
20	3x5x13	20	6x9x22
20	3x6.5x16		
20	4x5x13		

# Precision Case Hardened And Ground Shafting\*

HARDNESS: HRc 60 • TOLERANCE: h6 • 1m LENGTHS

Diameter mm	Weight		Depth of Hardness mm	Diametrical Tolerance (h6) µm	Concentricity µm	Cylindricity µm
	kg/m	lbs/m				
8	0.0395	0.0869	0.6-1	0-9	4	6
12	0.0888	0.1954	1.1-1.7	0-11	5	8
16	0.1580	0.3476	1.1-1.7	0-11	5	8
20	0.2465	0.5423	1.8-2.1	0-13	6	10
25	0.3850	0.8470	1.8-2.1	0-13	6	10
30	0.5550	1.2210	2.2	0-13	6	10
40	0.9860	2.1692	2.2	0-16	8	12
50	1.5410	3.3902	2.2	0-16	8	12

1 µm (micrometer) = 0.001 mm (millimeter) • Concentricity relates to the degree of roundness • Cylindricity relates to the degree of taper, convexity (crowing) and concavity

\*Inquire for linear shafting.

## Key/Flat Stock

ISO-TOLERANCE h9 (SLIP FIT)

MATERIAL: C 1045

DIN 6880

Size mm	Size mm
2X2	18X18
3X3	7X18
4X4	10X20
3X5	12X20
5X5	20X20
4X6	8X20
6X6	14X22
7X7	22X22
5X8	9X22
7X8	14X25
8X8	22X25
10X10	25X25
6X10	16X28
8X10	18X32
12X12	20X36
6X12	22X40
8X12	25X45
14X14	28X50
6X14	32X56
9X14	32X63
10X16	36X70
16X16	40X80
7X16	45X90
11X18	50X100

1 Meter Lengths (39")

0.5 m (500 mm) Lengths (19.7")

0.25 m (250 mm) Lengths (9.8")

3 m lengths available in some sizes

1.4571 Stainless Steel

(AISI 316 TI)

Size mm	Size mm
2X2	7X16*
3X3	11X18
4X4	7X18
3X5	12X20
5X5	8X20
4X6	14X22
6X6	9X22
5X8	14X25
7X8	16X28
8X8	18X32
10X10	20X36
6X10	22X40
8X10	25X45
12X12	
6X12	
8X12	
6X14	
9X14	
10X16	

\* = W.Nr.1.4541 (AISI 321)

## Hex Rod

MATERIAL: C 1045

(replaces former C1028)

Size mm
7
8
9
10
13
16
17
19
22
24
27
30
32
36
41
46
50
55

1 Meter Lengths (39")

NOTE: 3m lengths available in some sizes. Some sizes only currently available in C1028. Check before heat treating.