

BW-Fixatoren®

for machine installations
with sheet metal oil trays
Series RK and KT

... for the modern
art of machine installations
protecting the environment

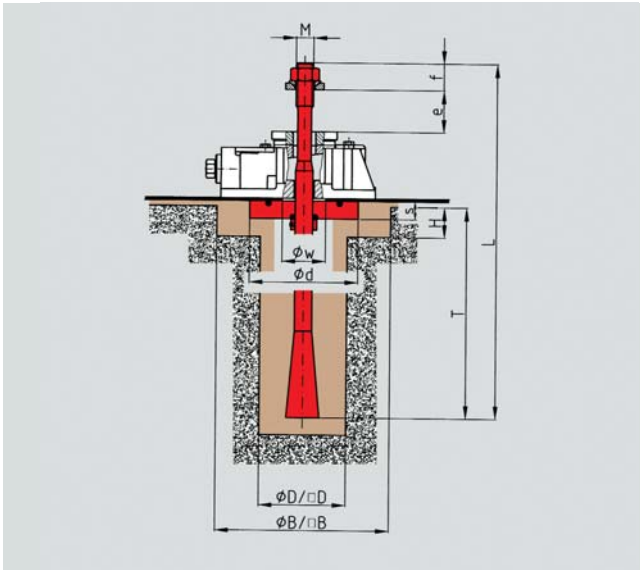
Installation Varieties and
Technical Information



BWF

...the best for accuracy.

Machine installation with sheet metal oil trays with Serie RK



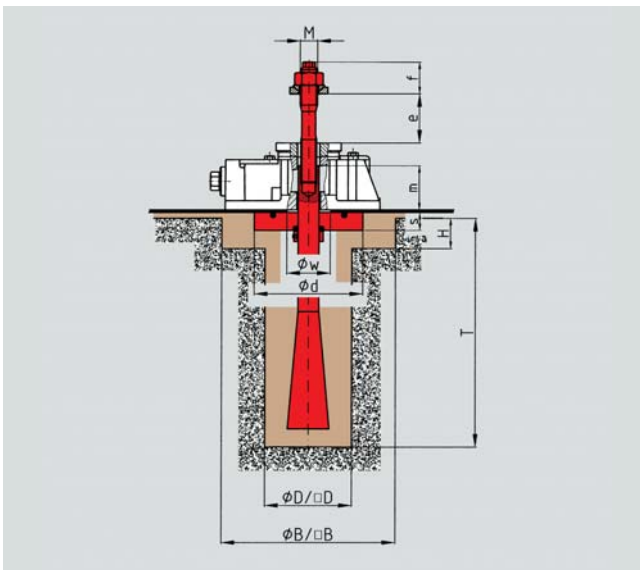
wes-wu

Anchor bolt for direct connection of the machine to the foundation

Note:
Specify the variants f1 and b and dimension „e” (thickness of machine leg) in your order

RK	M	L	Ød	S	f	ØW	e		Foundations				Clamping force max.	Recommended machine dead weight	Permissible max. load
							from	to	H	B	D	T			
I	M16	330	125	15	30	40	20	50	40	200	70	240	53 000	10 000	90 000
II	M20	400	125	20	40	40	20	70	40	200	80	270	81 000	20 000	120 000
III	M24	500	170	25	50	45	30	90	50	250	100	340	115 000	40 000	240 000

For more technical data see catalogue RK



we/2-wu

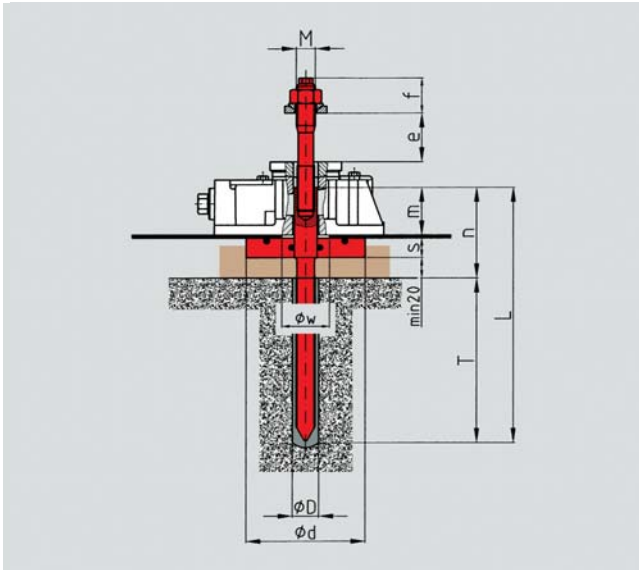
Split anchor bolt for direct connection of the machine to the foundation

Note:
Specify the variants f2 and b and dimension „e” (thickness of machine leg) in your order

RK	M	Ød	S	f	Øw	m	Foundations				Clamping force max.	Recommended machine dead weight	Permissible max. load
							H	B	D	T			
I	M16	125	15	30	40	38	40	200	80	160	53 000	10 000	90 000
II	M20	125	20	40	45	50	40	200	100	240	81 000	20 000	120 000
III	M24	170	25	50	50	61	50	250	120	320	115 000	40 000	240 000

For more technical data see catalogue RK

Machine installation with sheet metal oil trays with Serie RK



due/2-wu

Split resin anchor for direct connection of the machine to the foundation (Capsule and split stud)

Instruction for installation:

Installing the resin anchors the measure „n” is to keep as deadline at the highest level of the foundation

Note:

Specify the variants f2 and b and dimension „e” (thickness of machine leg) in your order

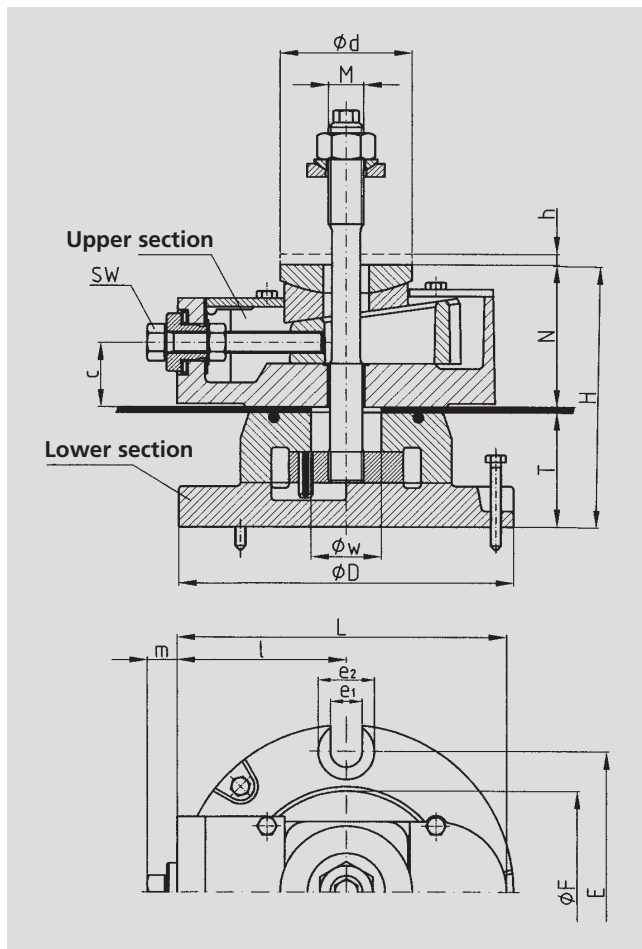
RK	M	L	Ød	S	f	ØW	m	n	Foundations		Clamping force max.	Recommended machine dead weight	Permissible max. load
									D	T			
I	M16	200	125	15	30	40	38	75	18	125	15 000	10 000	90 000
II	M20	260	125	20	40	45	50	90	25	170	27 000	20 000	120 000
III	M24	290	170	25	50	50	32	80	28	210	37 000	40 000	240 000

For more technical data see catalogue RK

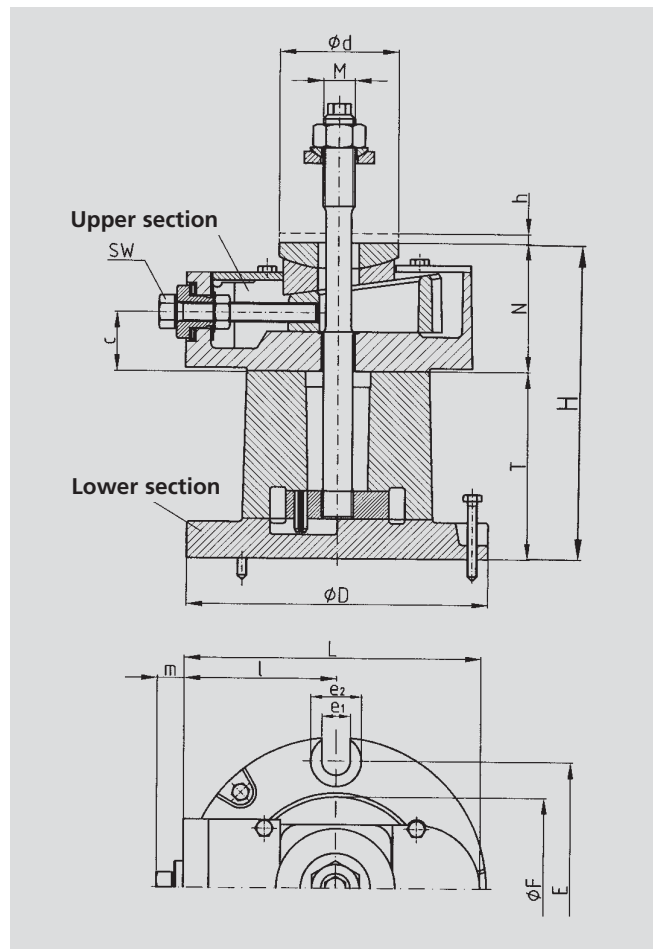
Machine installation with sheet metal oil trays with Serie KT

Dimensions

GA-OT Basic unit



GA-OT Basic unit



OT Upper section

Size	M	L	N	ϕd	h	SW	c	m	l	ϕw
I	M16	162	60	60	5	19	26	16	92	40
II	M20	187	80	75	5	19	36	18	96	40
III	M24	220	95	90	6	24	41	22	118	50
IV	M30	275	115	110	8	30	53	34	142	60

UT Lower section

Size	T	ϕD	ϕF	E	e1	e2	H
I	55	170	100	150	14	26	115
I	120	170	110	150	14	26	180
I/II	40	190	125	160	18	32	100/120
II	65	190	110	160	18	32	145
II	100	190	115	160	18	32	180
III	70	210	140	190	18	32	165
IV	82	260	170	230	24	40	197

Machine installation with sheet metal oil trays with Serie KT

Technical Data

Size	Dim	KT I	KT II	KT III	KT IV	
Permissible maximum load ¹⁾	N	90 000	120 000	240 000	360 000	
Recommended machine dead weight ²⁾	N	10 000	20 000	40 000	60 000	
Spring constant in operation range ³⁾	N/ μ m	UT40-2000	UT40-2900			
	N/ μ m	UT55-1300	UT65-2400	4 000	5 000	
	N/ μ m	UT120-1400	UT100-2500			
Torque at adjusting screw	Specific	$\frac{N \cdot m}{10^3 \text{ kg}}$	3	3	4	4,5
	Maximum	N·m	27	36	96	160
	Security	N·m	2,5-5	2,5-5	3,5-7	4-8
Vertical Adjustment per screw turn	mm	0,25	0,25	0,29	0,35	
Weight of basic unit	kg	9/8,7/12	11/12,5/15	22	39	

1) BW-Fixators® are adjustable up to this load.

2) This is the standard factor for the determination of the BW-Fixator® size.

3) Found by applying a changing load equal to the recommended proportional machine load. The operating range will be covered when the machine has been levelled and bound down with the anchor bolts.

Formula for calculating the Resilience of BW-Fixators® Serie KT

$$\Delta f[\mu\text{m}] = \frac{\Delta F}{c} = \frac{\text{Load change N}}{\text{Spring constant N}/\mu\text{m}}$$

Note:

The total of the forces a - e exerted must not exceed the permissible maximum load

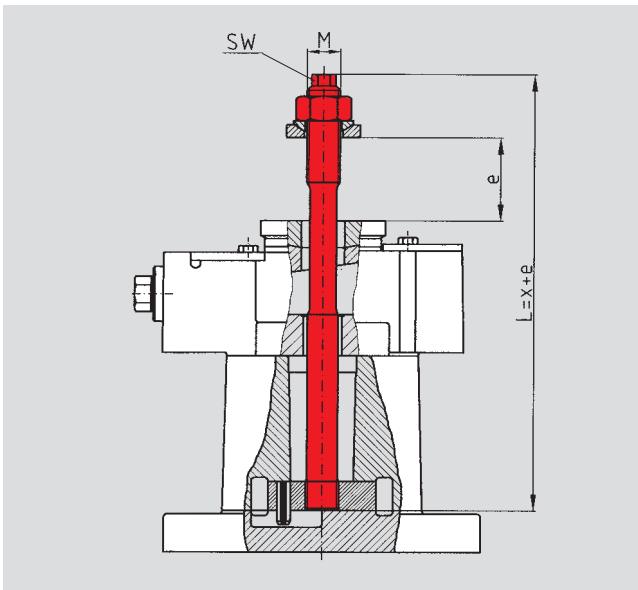
- a) Proportional machine load
- b) Tensile force exerted by anchor bolt
- c) Dynamic forces
- d) Changing loads (moving machine parts or workpieces)
- e) Forces counteracting moments

Determination of BW-Fixator® size

The proportional machine load recommended is a function of the net weight of the machine divided by the number of support points (BW-Fixators®).

For machinery with sizable variations in partial weight, it is the heaviest machine load that has to be divided by the number of bearing points and the resulting BW-Fixator® size has to be used everywhere under the machine.

Other Applications for Serie KT



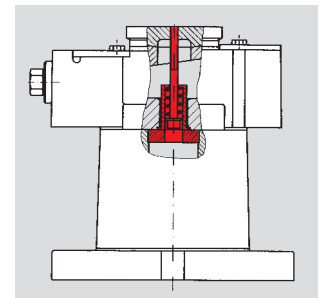
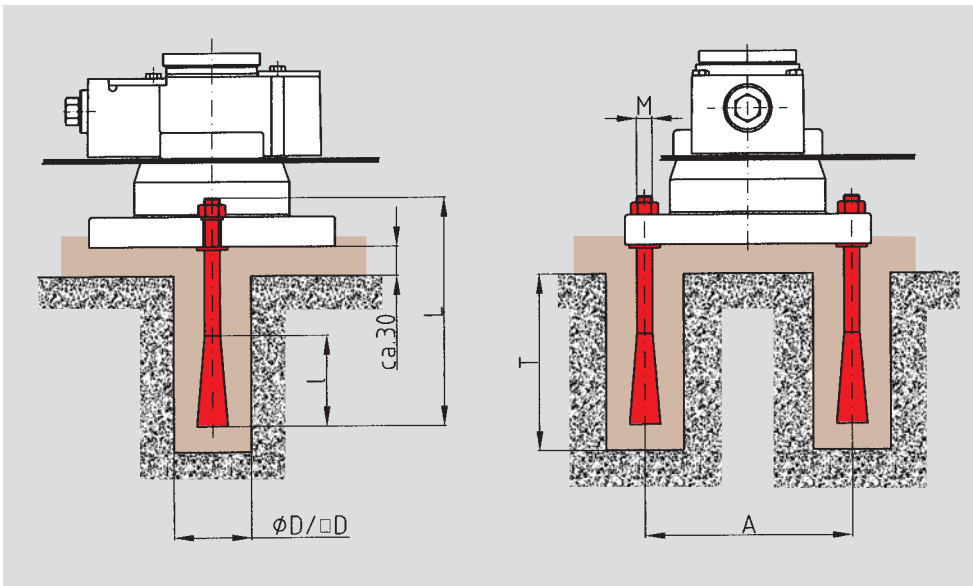
KT	UT	M	x	SW
I	40	M16	135	10
I	55	M16	135	10
I	120	M16	200	10
II	40	M20	160	13
II	65	M20	170	13
II	100	M20	205	13
III	70	M24	200	17
IV	82	M30	240	19

ste

Stud bolt for attaching the machine to the BW-Fixator®

Note:

Specify dimension „e” (thickness of machine leg) in your order, overall length $L=x+e$



KT	M	L	I	a	Foundations		Clamping force max. N
					D	T	
I	M12	150	70	150	60	140	65000
I-UT40	M16	250	90	160	70	240	120000
II	M16	250	90	160	70	240	120000
III	M16	250	90	190	70	240	120000
IV	M20	300	100	230	80	290	190000

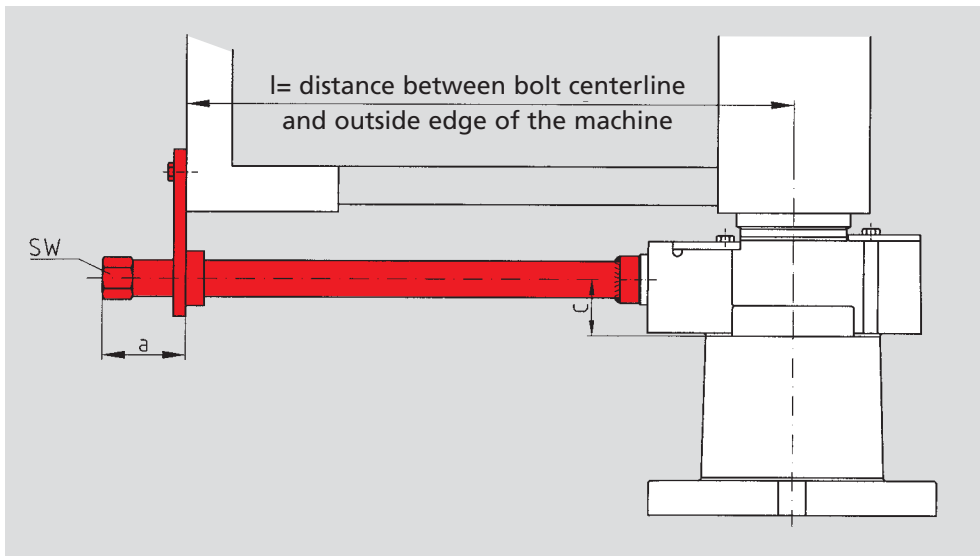
c

Side anchor bolts for connecting BW-Fixator® to the foundation

mon

Locking system for the spherical bearing plate

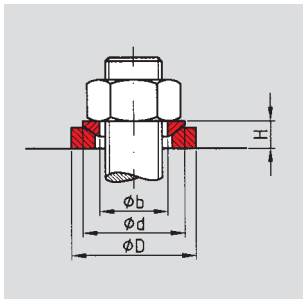
Other Applications for Serie KT



KT	a	SW	Min. length	Tube
I	50	22	140	24x4
II	50	22	140	24x4
III	50	22	170	24x4
IV	50	32	200	38x5

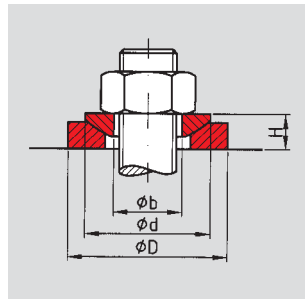
le

Extended set screw on BW-Fixator® arranged inwards of the machine side



p Spherical washer set for non-parallel bearing surfaces

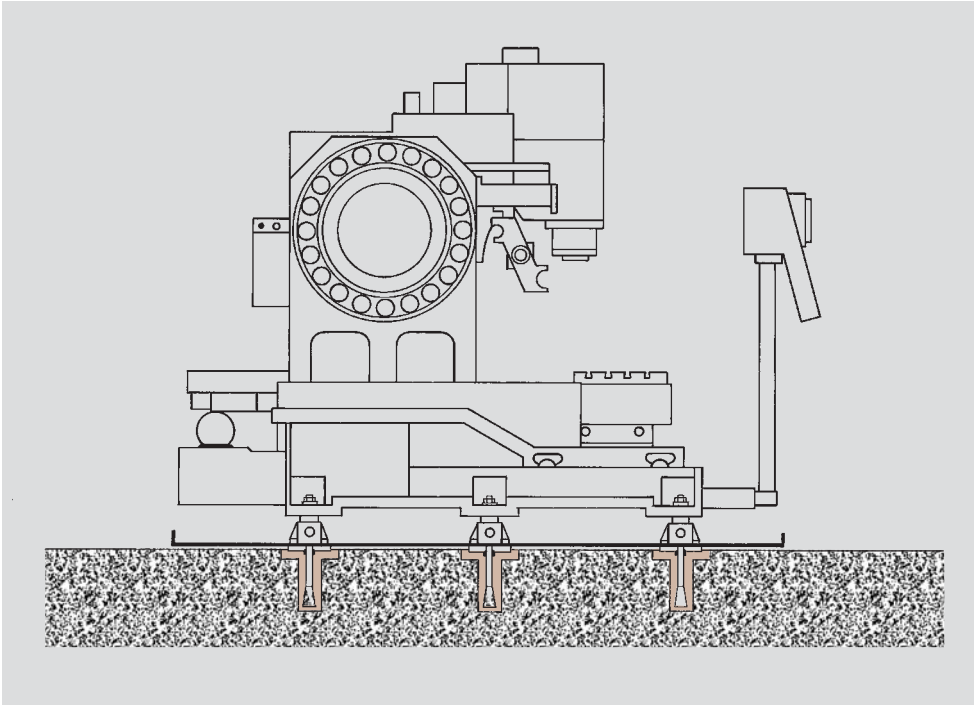
KT	ϕD	H	ϕd	b
I	40	9	30	17
II	44	10	36	21
III	56	13	44	25
IV	68	16	56	31



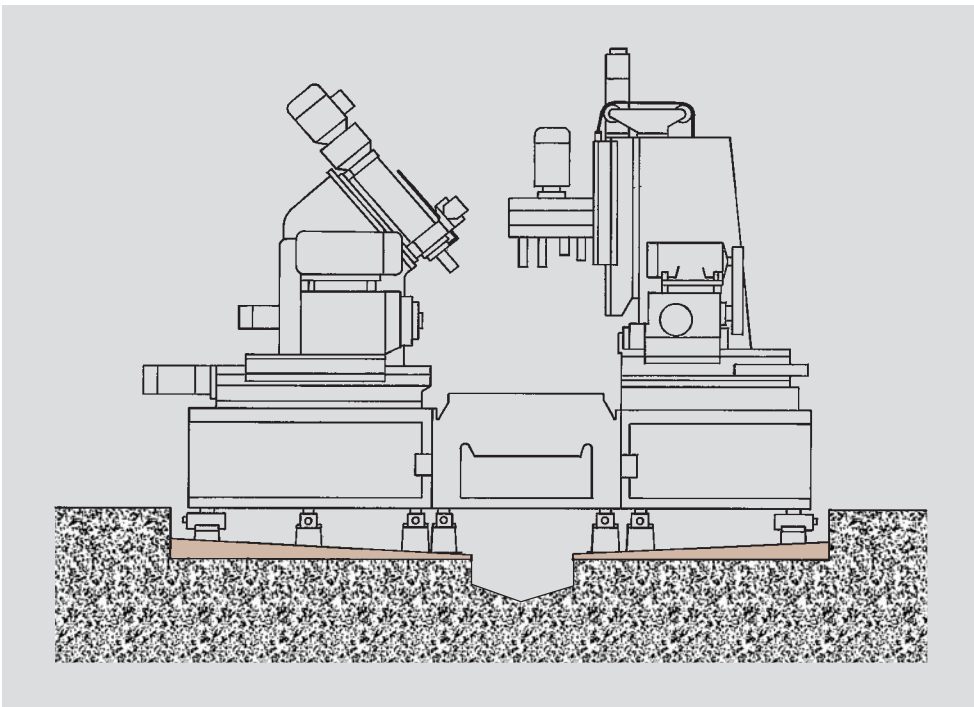
r Large spherical washer set for non-parallel bearing surfaces

KT	ϕD	H	ϕd	ϕb
I	44	10	36	17
II	56	13	44	21
III	68	16	56	25
IV	80	16	56	31

Examples for installations



BW-Fixators® RK, for the installation of machines in combination with sheet metal oil trays



BW-Fixators® KT, for the installation of machines on a sloping pavement