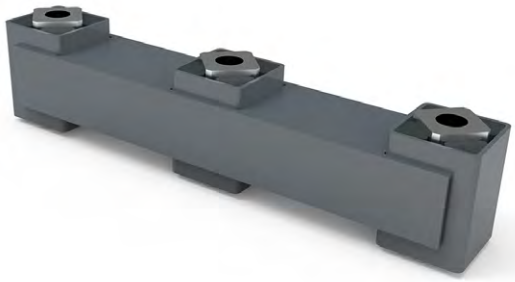
Oscillating Units



Oscillating Mounts
Drive Heads
Screen Mounts
Rockers

FLOHR
INDUSTRIETECHNIK GMBH
INGENIEURBÜRO UND MASCHINENBAU

OSCILLATING MOUNT
TYPE OM 3

DRIVE HEAD
TYPE DH | GSM 4

SCREEN MOUNT
TYPE CH | CH-I (INOX) 6

SCREEN MOUNT
TYPE CH V19 8

SCREEN MOUNT
TYPE CH-PL 10

SCREEN MOUNT
TYPE CH-HL 12

SCREEN MOUNT
TYPE CS 14

GYRATORY SIFTER MOUNT
TYP CE 16

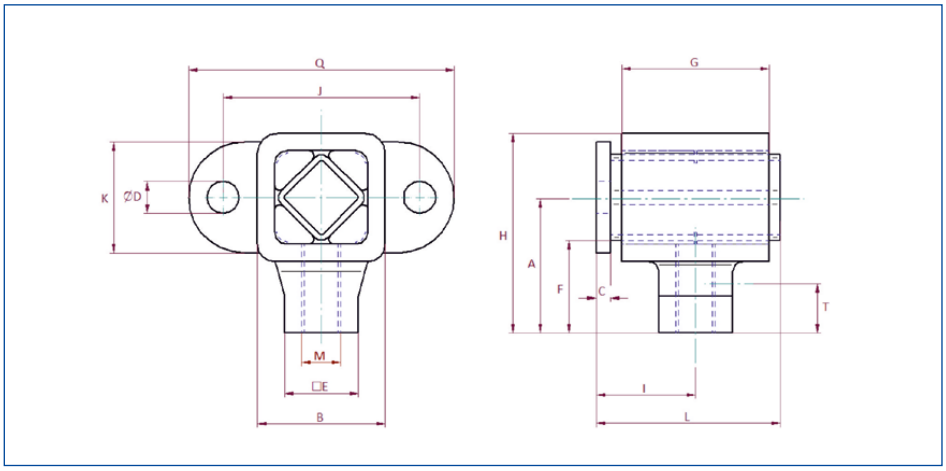
ROCKER
TYPE DB-C | DB-F | DB-FM 18

DOUBLE ROCKER
TYPE TB-C | TB-F | TB-FM 20

OSCILLATING MOUNT
TYPE OM

The RESATEC oscillating mount type OM are the head pieces of a rocker arm and are suitable for use in a single-mass crank shaft driven conveyor system up to oscillating machine index 1.6 or in resonance mode up to 2.2. The flanges are bolted directly to the trough and to the machine structure. Connecting rods of any length (made by customer) can be inserted into the threads.

By using the swinging elements OM, one side with righthand thread and the other side with left-hand thread, the center distance can be continuously leveled.



type	max. force	Mdd [Nm/°] @ +/– 5° +300 -600	max. nerr	A	B	C	øD	□E	F	G	H	I	J	K	L	M	Q	T	weight	material	
	N	min $^{-1}$	min $^{-1}$																kg	housing	core
OM 4 – 50R	200	1.31	30	40	36	5	9	24	25	50	58	33	60	30	61	M21R	82	16	0.27	EN AC-AL	steel 5235JR SN EN ISO 13920 AE
OM 4 – 50L	200	1.31	50	40	36	5	9	24	25	50	58	33	60	30	61	M12L	82	16	0.27		
OM 5 – 60R	400	3.00	80	55	52	7	11	30	35	60	81	41	80	45	75	M16R	109	24	0.65		
OM 5 – 60L	400	3.00	40	55	52	7	11	30	35	60	81	41	80	45	75	M16L	109	24	0.65		
OM 6 – 80R	800	7.6	60	80	72	6	14	40	52	80	115	53	100	60	97	M20R	130	30	1.5		
OM 6 – 80L	800	7.6	100	80	72	6	14	40	52	80	115	53	100	60	97	M20L	130	30	1.5		
OM 6 – 80R 30 °R	800	7.6	60	80	72	6	14	40	52	80	115	53	130	60	97	M20R	160	30	1.5		
OM 6 – 80R 30 °L	800	7.6	80	80	72	6	14	40	52	80	115	53	130	60	97	M20L	160	30	1.5		
OM 7 – 100R	1600	12.4	120	90	90	9	17	50	55	100	135	63	130	70	118	M24R	170	36	2.6		
OM 7 – 100L	1600	12.4	80	90	90	9	17	50	55	100	135	63	130	70	118	M24L	170	36	2.6		
OM 8 – 120R	2600	26.9	100	100	92	10	17	60	65	120	148	75	140	80	140	M36R	180	55	6.1	EN GJS-400 ISO8062-3-DCTG11	
OM 8 – 120L	2600	26.9	150	100	92	10	17	60	65	120	148	75	140	80	140	M36L	180	55	6.1		

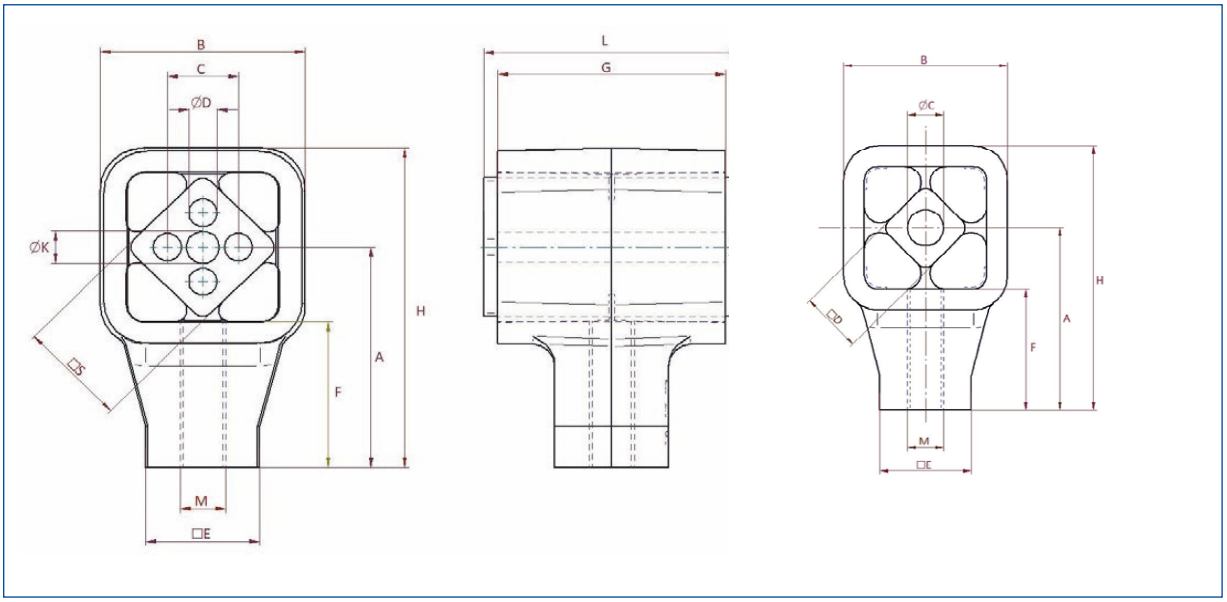
DRIVE HEAD
TYPE DH | GSM

The RESATEC drive head type DH is the elastic head piece of the push crank rod. A ball or roller bearing can be used on the eccentric drive side. At the trough, the drive head achieves maintenance-free transmission of the drive forces. The elastic drive head reduces the high force peaks that lead to increased wear in a stiff component and at the same time protects the drive components and the trough structure.

The RESATEC drive head GSM is functionally a DH with larger rubber volume. A larger head is used and compensated with larger rubber cross section. GSM are mainly used for the suspension of plansifters.

$F = m \times R \times 0{,}001 \times (2\Pi \times n_{eer})^2$

F [N]	Acceleration force
m [kg]	Oscillating mass
R [mm]	Eccentric radius
n_{eer} [min^{1}]	Excitation rpm



DRIVE HEAD
TYPE DH | GSM

type	max. force	angle	max. nerr	A	B	C	ø D	ø K	□ E	F	G	H	L +0/– 0.3	M	T	□ S	weight	material	
	N	max.	min $^{-1}$				+0,5 0										kg	housing	core
DH 4 – 50R	400	10°	720	40	36	12	6	-	24	25	50	58	55	M12R	16	18	0.15	EN AC-AL	aluminium-wrought alloys T6
DH 4 – 50L	400	10°	720	40	36	12	6	-	24	25	50	58	55	M12L	16	18	0.15		
DH 5 – 60R	1000	10°	680	55	52	20	8	-	30	35	60	81	65	M16R	24	27	0.35		
DH 5 – 60L	1000	10°	680	55	52	20	8	-	30	35	60	81	65	M16L	24	27	0.35		
DH 6 – 80R	2000	10°	620	80	72	25	10	-	40	52	80	115	90	M20R	30	38	1		
DH 6 – 80L	2000	10°	620	80	72	25	10	-	40	52	80	115	90	M20L	30	38	1		
DH 7 – 100R	3500	10°	580	90	90	35	12	17	50	55	100	135	110	M24R	36	45	1.7		
DH 7 – 100L	3500	10°	580	90	90	35	12	16.5	50	55	100	135	110	M24L	36	45	1.7		
DH 8 – 120R	6000	10°	560	100	100	40	M12 x 40	20.5	60	65	120	148	130	M36R	55	50	4.9	EN GJS-400 ISO 8062-3-DCTG11	steel S235JR ISO 2768mK
DH 8 – 120L	6000	10°	560	100	100	40	M12 x 40	20.5	60	65	120	148	130	M36L	55	50	4.9		
DH 9 – 200R	11500	10°	540	120	120	45	M16 x 25	-	80	75	200	183	210	M42R	63	60	17.9		
DH 9 – 200L	11500	10°	540	120	120	45	M16 x 25	-	80	75	200	183	210	M42L	63	60	17.9		
DH 9 – 300R	17500	10°	540	120	120	45	M16 x 25	-	80	75	300	183	310	M42R	63	60	25.5		
DH 9 – 300L	17500	10°	540	120	120	45	M16 x 25	-	80	75	300	183	310	M42L	63	60	25.5		
DH 11 – 300R	25000	10°	440	168	152	60	M20 x 30	-	100	100	300	236	310	M52R	78	80	41.5	SN EN ISO 3920 AE	
DH 11 – 300L	25000	10°	440	168	152	60	M20 x 30	-	100/136	100	300	236	310	M52L	78	80	41.5		

type	max. load / unit	G	L	F	E	A	C	B	D	H	M	rubber ø	weight
	N											mm	kg
GSM 4 R	700 - 1700	60	65	35	30	55	13	52	18	81	M16R	20	0.35
GSM 4 L	700 - 1700	60	65	35	30	55	13	52	18	81	M16L	20	0.35
GSM 5 R	1400 - 3200	80	90	52	40	80	16,5	72	27	115	M20R	25	1
GSM 5 L	1400 - 3200	80	90	52	40	80	16,5	72	27	115	M20L	25	1
GSM 6 R	2800 - 5200	100	110	55	50	90	21	90	38	135	M24R	27	1.7
GSM 6 L	2800 - 5200	100	110	55	50	90	21	90	38	135	M24L	27	1.7
GSM 7 R	4800 - 7900	120	130	65	60	100	21	94	40	148	M36R	35	4.9
GSM 7 L	4800 - 7900	120	130	65	60	100	21	94	40	148	M36L	35	4.9
GSM 8 R	6500 - 17000	200	210	75	80	120	4 x M12 x 40	120	50	183	M42R	40	17.9

Load (N): $\frac{m \times g}{z}$

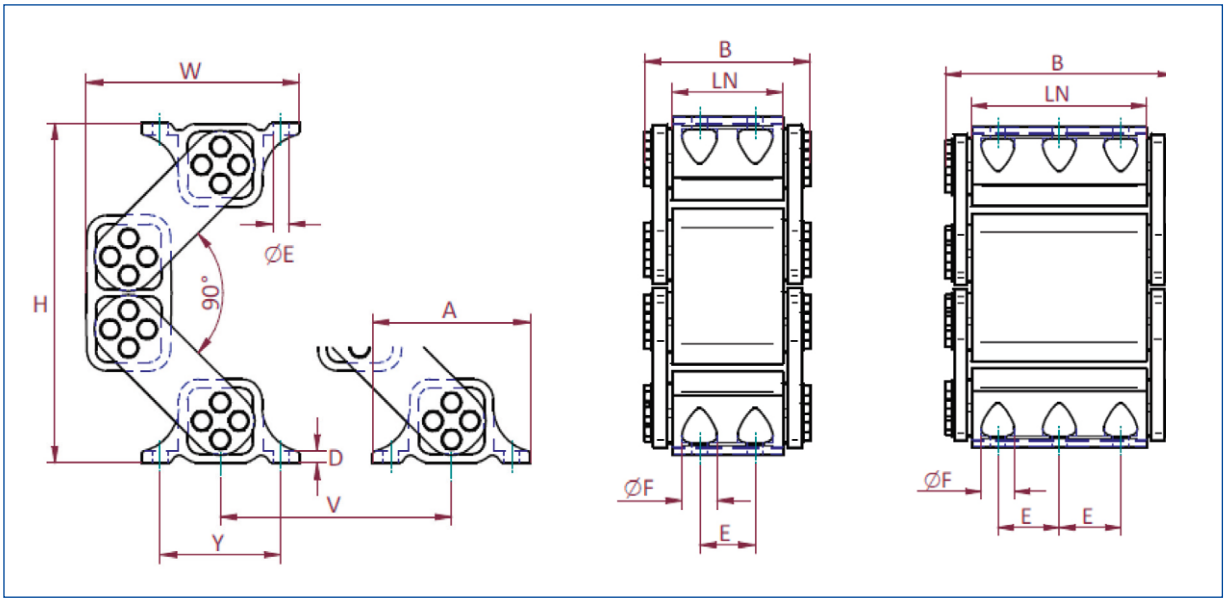
Total oscillating mass: m [kg]

Number of suspensions: z [piece]

Acceleration: g [9,81 m/s^2]

SCREEN MOUNT
TYPE CH | CH-I (INOX-DESIGN)

The RESATEC screen mount type CH is the universal mounting in our product range. All advantages, such as large oscillation amplitudes, high insulating effect, high power density, low residual force transmission and high resistance with regard to spontaneous loading are combined. The support of inclined screens is also possible. Transversely acting tensile forces due to belt drives are well absorbed and prevent negative, onesided conveying.



SCREEN MOUNT
TYPE CH | CH-I

type	dimensions H		W		A	B	LN	D	E	øE	screws	øF +/– 0.2	Y	V	weight	material		
	un-loaded	max. load	un-loaded	max. load										min.	kg	housing	core	lever
CH-I 3 – 40	163	123 - 118	102	117	65	52	40	4	-	7	4	-	50	120	0.9	SINT-C 40	1.4301	
CH-I 4 – 50	210	150 - 143	130	147	85	61	50	4.5	-	9	4	-	65	150	1.6	SINT-C 41	1.4301	
CH-I 4 – 50S	210	143	130	147	85	61	50	4.5	-	9	4	-	65	150	1.5	SINT-C 41		
CH 5 – 60	236	180 - 173	148	169	105	80	60	5	-	11	4	-	80	170	2.2	Aluminium	steel powder coating	
CH 6 – 80	305	234 - 224	184	211	125	106	80	6	40	13	8	-	100	210	5			
CH 7 – 110	333	256 - 245	206	235	145	155	110	8	65	13	8	-	115	240	8.8			

Load values, capacity limits

type	load		nat. frequency fe load		dynam. spring ratio cd 960 min $^{-1}$ verti.	sw amplitude	hori.	max. capacity limits* 720 min $^{-1}$ (12 Hz)				960 min $^{-1}$ (16 Hz)				1440 min $^{-1}$ (24 Hz)			
	min. N	max. N	min. Hz	max. Hz	N/mm	peak to peak mm	N/mm	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.
CH-I 3 – 40	50	160	4.5	2.4	10	11	13	13.5	3.9	95.4	16	11	5.7	97.4	17	8	9.3	99	18
CH-I 4 – 50	120	350	4	2.3	19	12	15	16	4.9	96.8	18	14	7.7	98.3	19	8	9.3	99	18
CH-I 4 – 50S	120	350	4	2.3	19	12	15	16	4.9	96.8	18	14	7.7	98.3	19	8	9.3	99	18
CH 5 – 60	240	800	3.8	2.2	35	14	18	17	4.9	96.6	20	14	8.8	98.1	24	8	9.3	99	18
CH 6 – 80	600	1600	3.0	1.9	56	17	26	20	5.8	97.3	24	17	8.8	98.5	27	8	9.3	99	18
CH 7 – 110	1300	3300	2.8	1.9	107	17	38	20	5.8	97.5	24	17	9.3	98.5	27	8	9.3	99	18

*sw: amplitude (peak to peak)

K: oscillating machine factor

W: isolation efficiency

Vm: theo. conveying speed (angle 45°)

SCREEN MOUNT
TYPE CH V19

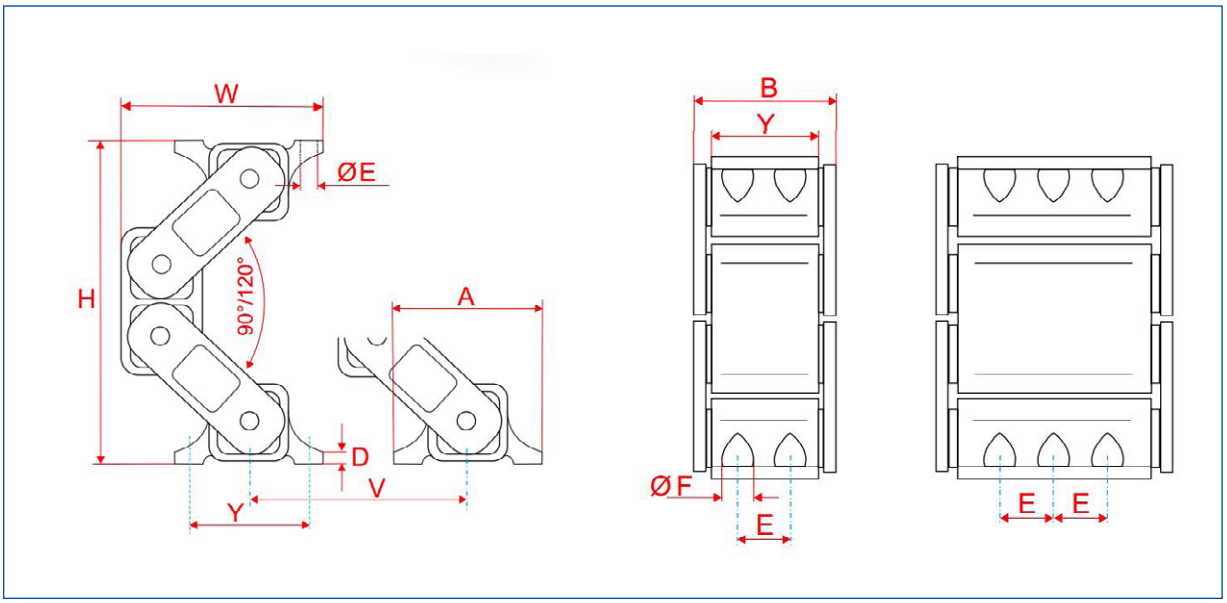
The RESATEC screen mount type CH-V19 is the further developed universal mounting in our product range. All advantages like:

– large oscillation amplitudes
– high insulating effect
– high power density
– low residual force transmission
– high resistance

have been enhanced with the following properties:
– material saving
– weight reduction
– lower maintenance
– higher corrosion resistance

This made it possible to meet the demand for more compact elements with increased service life and lower maintenance. Without sacrificing our quality claim to also equip these elements with levers on both sides as well.

In addition, through the choice of materials, we have made the element not only lighter, but also more resistant to environmental influences.



SCREEN MOUNT
TYPE CH V19

type	dimensions H		W		A	B	LN	D	E	øE	screws	øF +/– 0.2	Y	V	weight	material		
	unbe-lastet	max. Last	unbe-lastet	max. Last										min.	kg	housing	core	lever
CH8 – 120 V19	366	264	230	263	170	160	120	13	60	17	8	38	130	270	10.0	Aluminium		
CH8 – 160 V19	366	264	230	263	170	200	160	13	2x60	17	12	38	130	270	12.5			
CH8 – 200 V19	366	264	230	263	170	240	200	13	2x70	17	12	38	130	270	15.8			
CH8 – 240 V19	366	264	230	263	170	280	240	13	3x60	17	16	38	130	270	18.4			
CH8 – 320 V19	366	264	230	263	170	360	320	13	4x60	17	20	38	130	270	23.5			
CH8 – 400 V19	366	264	230	263	170	440	400	13	4x70	17	20	38	130	270	28.7			
CH-PL 8 – 120 V19	376	307	191	229	170	160	120	13	60	17	8	38	130	240	10.0	Aluminium		
CH-PL 8 – 160 V19	376	305	191	229	170	200	160	13	2x60	17	12	38	130	240	12.5			
CH-PL 8 – 200 V19	376	307	191	230	170	240	200	13	2x70	17	12	38	130	240	15.8			
CH-PL 8 – 240 V19	376	307	191	229	170	280	240	13	3x60	17	16	38	130	240	18.4			
CH-PL 8 – 320 V19	376	307	191	229	170	360	320	13	4x60	17	20	38	130	240	26.5			
CH-PL 8 – 400 V19	376	307	191	230	170	440	400	13	4x70	17	20	38	130	240	28.7			

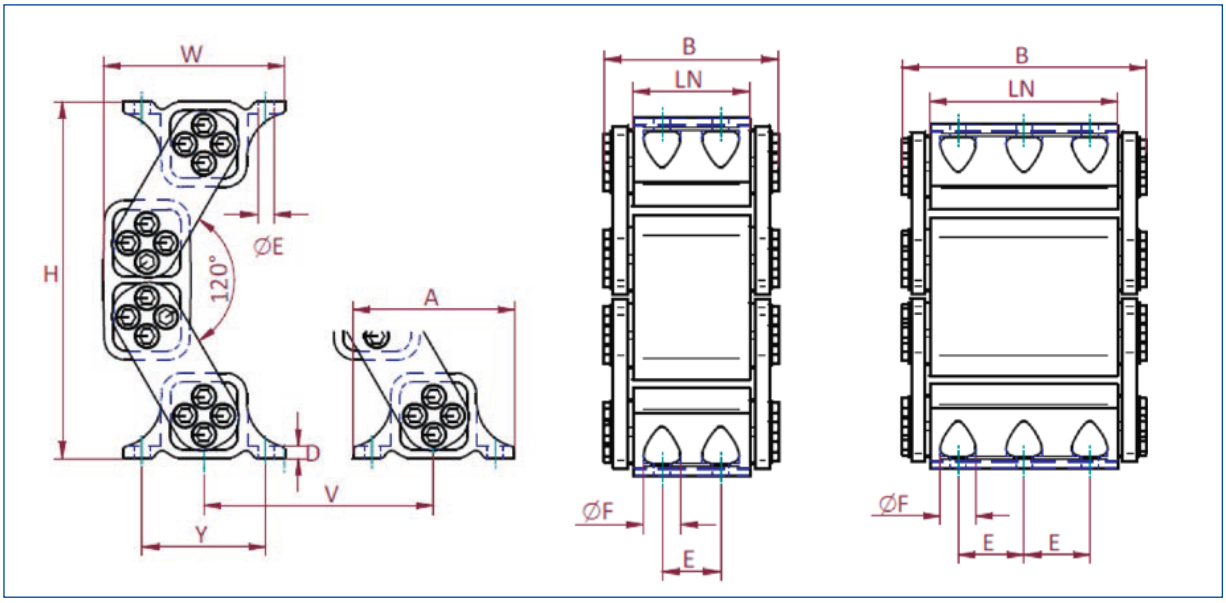
Load values, max. capacity limits

type	load		natural frequ. fe load		dynam. spring ratio cd 960 min $^{-1}$			capacity limits*											
					verti.	sw amplitude	hori.	720 min $^{-1}$ (12 Hz)				960 min $^{-1}$ (16 Hz)				1440 min $^{-1}$ (24 Hz)			
	min. N	max. N	min. Hz	max. Hz	N/mm	peak to peak mm	N/mm	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.
CH8 – 120 V19	2400	5800	2.4	1.9	194	18	84	22	6.4	97.5	26	18	9.3	98.5	28	8	9.3.	99	18
CH8 – 160 V19	3200	8000	2.4	1.9	266	18	138	22	6.4	97.5	26	18	9.3	98.5	28	8	9.3	99	18
CH8 – 200 V19	4000	9800	2.4	1.9	327	18	149	22	6.4	97.5	26	18	9.3	98.5	28	8	9.3	99	18
CH8 – 240 V19	5000	12000	2.3	1.9	399	18	209	22	6.4	97.5	26	18	9.3	98.5	28	8	9.3	99	18
CH8 – 320 V19	7000	16000	2.2	1.9	533	18	277	22	6.4	97.5	26	18	9.3	98.5	28	8	9.3	99	18
CH8 – 400 V19	8000	20000	2.3	1.9	666	18	344	22	6.4	97.8	26	18	9.3	98.5	28	8	9.3	99	18
CH-PL 8 – 120 V19	3500	8100	2.9	2.1	281	15	128	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 160 V19	4700	11300	2.6	2.0	388	15	171	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 200 V19	6000	13600	2.5	1.9	471	15	215	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 240 V19	8000	16000	2.5	1.9	506	15	259	18	5.2	90.5	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 320 V19	11000	22000	2.5	1.9	760	15	344	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 400 V19	13500	27000	2.3	2.0	939	15	432	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18

*sw: amplitude (peak to peak)
K: oscillating machine factor
W: isolation efficiency
Vm: theo. conveying speed (angle 45°)

SCREEN MOUNT
TYPE CH-PL

The RESATEC screen mount type CH-PL is the optimization in terms of power density. Sufficient oscillation amplitudes, good insulating effect and good resistance with regard to spontaneous loading are retained. The support of inclined screens is also possible. If a belt drive is intended to drive the unbalance shafts, we recommend the use of a motor base (e.g. RESATEC motor base MW-8).



SCREEN MOUNT
TYPE CH-PL

type	dimensions H un-loaded	H max. load	W un-loaded	W max. load	A	B	LN	D	E	øE	screws	øF +/– 0.2	Y	V min.	weight kg	material housing	material core	material lever
CH-I PL 3 – 40	135	118 – 115	70	82	65	52	40	4	-	7	4	-	50	80	1	SINT-C 40	1.4571	
CH-I PL 4 – 50	242	175 – 163	110	165	85	61	50	4.5	-	9	4	-	65	200	1.6	SINT-C 41	1.4571	
CH-PL 7 – 110	340	290 – 283	170	202	145	145	110	8	65	13	8	-	115	220	7.9	Aluminium	steel with powder coating	
CH-PL 8 – 120	376	315 – 307	191	229	170	180	120	13	60	17	8	38	130	240	14.7			
CH-PL 8 – 160	376	315 – 305	191	230	170	220	160	13	2 x 60	17	12	38	130	240	18.3		Aluminium	steel with powder coating
CH-PL 8 – 200	376	315 – 307	191	229	170	260	200	13	2 x 70	17	12	38	130	240	20.2			
CH-PL 8 – 200	376	314 – 306	191	229	170	300	240	13	3 x 60	17	16	38	130	240	23.9			
CH-PL 8 – 320	376	315 – 305	191	230	170	380	320	13	4 x 60	17	20	38	130	240	29.3			
CH-PL 8 – 400	376	315 – 307	191	229	170	460	400	13	4 x 70	17	20	38	130	240	34.6			

Load values, apacity limits

type	load min. N	load max. N	nat. frequ. fe load min. Hz	load max. Hz	dynam. spring ratio cd 960 min $^{-1}$ verti. N/mm	sw amplitude peak to peak mm	hori. N/mm	capacity limits* 720 min $^{-1}$ (12 Hz) sw mm	K -	W %	Vm m/min.	960 min $^{-1}$ (16 Hz) sw mm	K -	W %	Vm m/min.	1440 min $^{-1}$ (24 Hz) sw mm	K -	W %	Vm m/min.
CH-I PL 3 – 40	120	300	6.2	3.5	27	7	18	8	2.3	90.5	9.5	7	3.6	95	10.8	5	5.8	97.8	11.7
CH-I PL 4 – 50	250	800	5.1	3.2	38	9	25	10	2.8	92.5	12.2	9	4.5	94	13.2	7	8	97.1	13.5
CH-PL 7 – 110	2000	4500	3.4	2.1	170	14	86	17	4.9	97	20.5	14	7.1	98	22.5	8	9.3	98.5	18
CH-PL 8 – 120	3500	8100	2.6	2.1	281	15	128	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 160	4700	11300	2.9	2.1	388	15	171	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 200	6000	13600	2.6	1.9	471	15	215	18	5.2	97	21	15	7.7	98	24	8	9.3	98.5	18
CH-PL 8 – 240	8000	16000	2.5	1.9	506	15	259	18	5.2	97	21	15	7.7	99	24	8	9.3	98.5	18
CH-PL 8 – 320	11000	22000	2.5	1.9	760	15	344	18	5.2	97	21	15	7.7	99	24	8	9.3	98.5	18
CH-PL 8 – 400	13500	27000	2.5	2	939	15	432	18	5.2	97	21	15	7.7	99	24	8	9.3	98.5	18

*sw: amplitude (peak to peak)

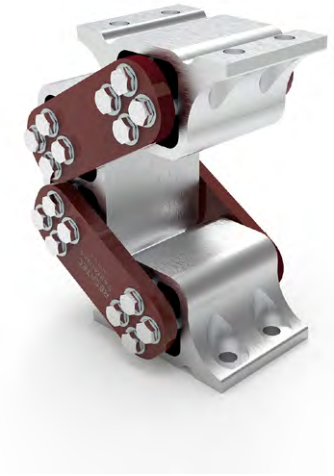
K: oscillating machine factor

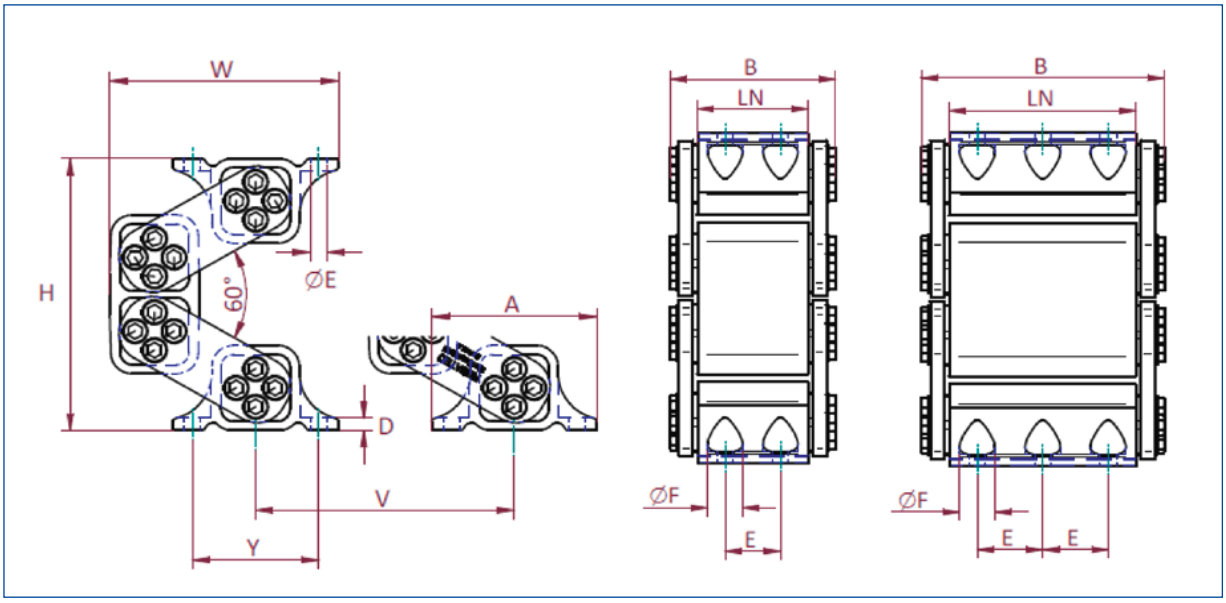
W: isolation efficiency

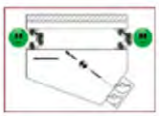
Vm: theo. conveying speed (angle 45°)

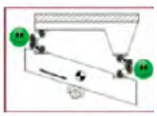
SCREEN MOUNT
TYPE CH-HL

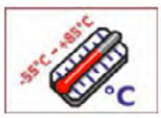
The RESATEC screen mount type CH-PL is the optimization in terms of power density. Sufficient oscillation amplitudes, good insulating effect and good resistance with regard to spontaneous loading are retained. The support of inclined screens is also possible. If a belt drive is intended to drive the unbalance shafts, we recommend the use of a motor base (e.g. RESATEC motor base MW-8).











SCREEN MOUNT
TYPE CH-HL

type	dimensions H		W		A	B	LN	D	E	øE	screws	øF +/– 0.2	Y	V	weight	material		
	unbe-lastet	max. Last	unbe-lastet	max. Last										min.	kg	housing	core	lever
CH-I HL 3 – 40	102	126	86	76	65	52	40	4	-	7	4	-	50	80	1.0	SINT-C 40	1.4571	
CH-HL 7 – 110	259	321	210	183	145	145	110	8	65	13	8	-	115	220	7.9	aluminium	steel powder coating	
CH-HL 8 – 120	288	361	235	203	170	180	120	13	60	17	8	38	130	240	15.8			
CH-HL 8 – 160	288	361	235	203	170	220	160	13	2 x 60	17	12	38	130	240	18.3		aluminium	steel with powder coating
CH-HL 8 – 200	288	361	235	203	170	260	200	13	2 x 70	17	12	38	130	240	21.2			
CH-HL 8 – 240	288	360	235	203	170	300	240	13	3 x 60	17	16	38	130	240	23.9			
CH-HL 8 – 320	288	360	235	203	170	380	320	13	4 x 60	17	20	38	130	240	29.3			
CH-HL 8 – 400	288	360	235	204	170	460	400	13	4 x 70	17	20	38	130	240	34.6			

load values, capacity limits

type	load		natural frequ. fe load		dynam. spring ratio cd 960 min $^{-1}$ verti.	sw amplitude	hori.	capacity limits* 720 min $^{-1}$ (12 Hz)				960 min $^{-1}$ (16 Hz)				1440 min $^{-1}$ (24 Hz)			
	min. N	max. N	min. Hz	max. Hz	N/mm	peak to peak mm	N/mm	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.
CH-I HL 3 – 40	120	300	5.7	4.6	26	7	15	8	2.3	84	9.5	7	3.5	91.1	10.8	5	5.8	96.2	11.7
CH-HL 7 – 110	2000	4500	3.2	2.8	161	14	86	17	4.9	93.7	20.5	14	7.1	96.8	22.5	8	9.3	98.6	18
CH-HL 8 – 120	3500	8400	2.6	2.8	281	15	117	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18
CH-HL 8 – 160	4700	11300	2.6	2.8	378	15	157	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18
CH-HL 8 – 200	6000	14000	2.6	2.8	467	15	196	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18
CH-HL 8 – 240	7200	16000	2.6	2.8	528	15	230	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18
CH-HL 8 – 320	9000	22000	2.6	2.8	731	15	311	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18
CH-HL 8 – 400	12000	27000	2.6	2.8	895	15	386	18	5.3	94.2	21	15	7.7	96.8	24	8	9.3	98.6	18

*sw: amplitude (peak to peak)

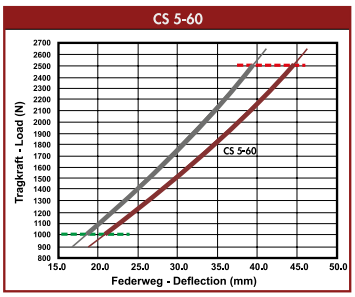
K: oscillating machine factor

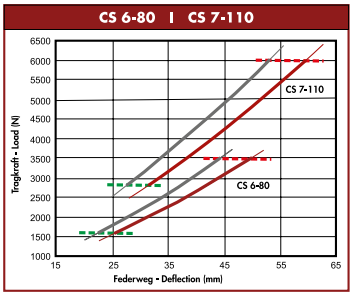
W: isolation efficiency

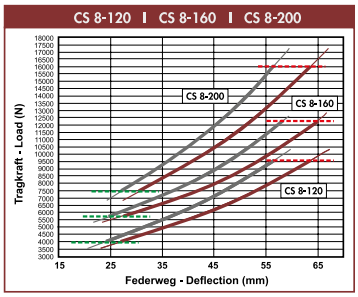
Vm: theo. conveying speed (angle 45°)

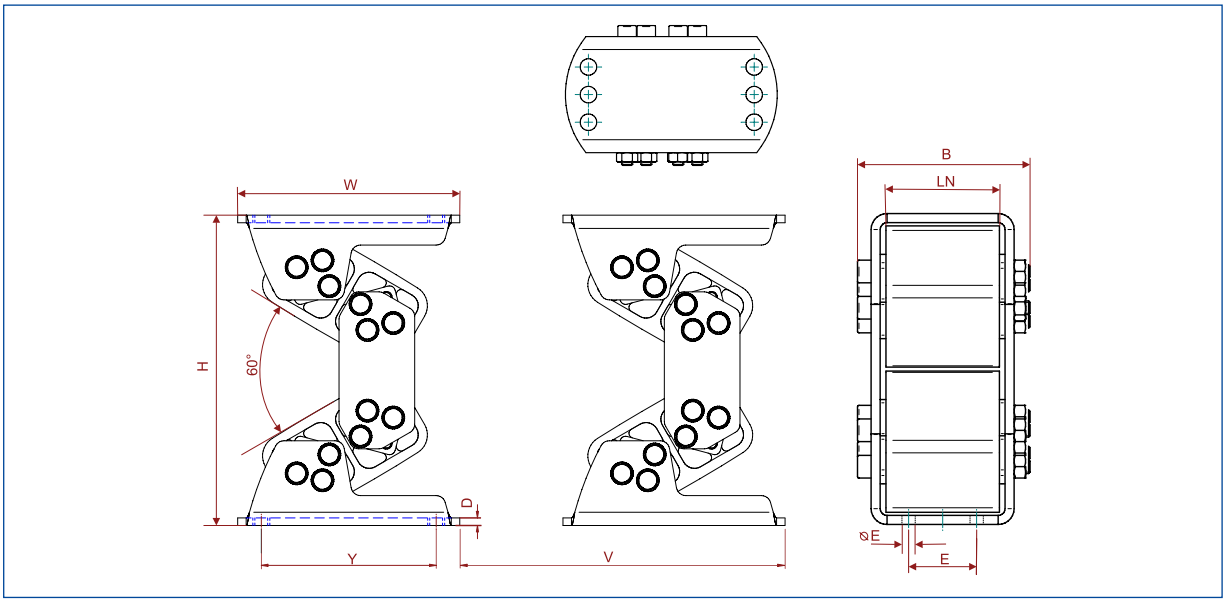
SCREEN MOUNT
TYPE CS

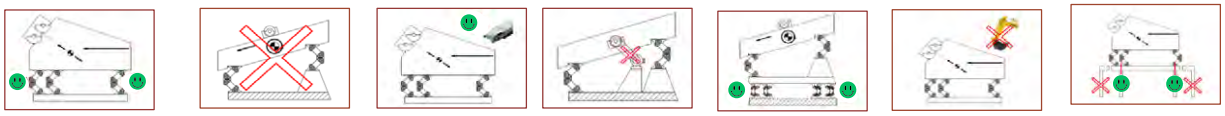
The RESATEC screen mount type CS is the optimization with regard to the overall height. Reduced vibration amplitudes and good insulating effect are maintained. Specific for the mounting of horizontally standing conveyors (linear conveyors) with mostly smaller oscillation amplitudes. The design, which is different from the CH series, results in a detuning in the natural frequency of the mounts. Thus, the RESATEC screen mount type CS can also be used as a support between the foundation and a counter-swinging frame in combination with our mountings type CH and CH-PL between the counter-swinging frame and the swinging screen.











SCREEN MOUNT
TYPE CS

type	dimensions H		W	B	LN	D	E	ø E +/- 0.2	Y	V	weight	material		
	unloaded	max. load						min. 8 screws		min.	kg	housing	core	lever
CS 4 – 50	134	110	115	75	50	3	30	8	90	120	1.6	aluminium	aluminium	steel with powder coating
CS 5 – 60	184	142	150	94	60	4	40	9	120	160	2.7			
CS 5 – 80	184	146	150	115	80	4	50	9	120	160	3.3			
CS 6 – 80	244	197	176	126	80	5	50	11	150	185	6.0			
CS 6 – 100	244	200	176	146	100	5	70	11	150	185	6.6			
CS 7 – 110	298	240	220	159	110	6	80	13.5	170	230	10.7			
CS 8 – 120	329	270	235	164	120	6	90	13.5	185	245	13.6			
CS 8 – 160	329	270	235	210	160	8	90	13.5	185	245	19.1			
CS 8 – 200	329	270	235	249	200	7.5	90	13.5	185	245	24.6			

load values, capacity limits*

type	load		natural frequ. fe load		dynam. spring ratio cd 960 min $^{-1}$ verti.	sw ampli-tude	hori.	capacity limits* 720 min $^{-1}$ (12 Hz)				960 min $^{-1}$ (16 Hz)				1440 min $^{-1}$ (24 Hz)			
	min. N	max. N	min. Hz	max. Hz	N/mm	peak to peak mm	N/mm	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.	sw mm	K -	W %	Vm m/min.
CS 4 – 50	450	1300	6.0	4.4	117	4	20	5	1.4	94.5	6	4	2.7	95.8	7	4	4.8	98	9
CS 5 – 60	850	2000	3.9	2.9	150	5	35	6.5	1.9	93.7	7	5.5	2.8	96.6	9	5	5	98.5	10
CS 5 –80	1000	2600	5.4	3.9	170	5	40	6.5	1.9	93.7	7	5.5	2.8	96.6	9	5	5	98.5	10
CS 6 – 80	1600	3500	3.5	2.5	180	6	40	8	2.8	94.8	12	7	4.2	97.2	13	5.5	7.4	98.8	14
CS 6 – 100	2000	4300	4.3	3.4	200	6	45	8	2.8	94.8	12	7	4.2	97.2	13	5.5	7.4	98.8	14
CS 7 – 110	2800	6000	3.2	2.3	240	8	80	11	3.2	95.7	13	9	4.8	97.6	15	7	8.5	99	17
CS 8 – 120	4000	9600	2.6	2.4	330	9	129	12	3.5	95.5	14	10	5.1	97.5	16	8	9.3	99	18
CS 8 – 160	8000	12000	2.6	2.4	430	9	170	12	3.5	95.5	14	10	5.1	97.5	16	8	9.3	99	18
CS 8 – 200	7500	16000	2.6	2.4	570	9	211	12	3.5	95.5	14	10	5.1	97.5	16	8	9.3	99	18

*sw: amplitude (peak to peak)

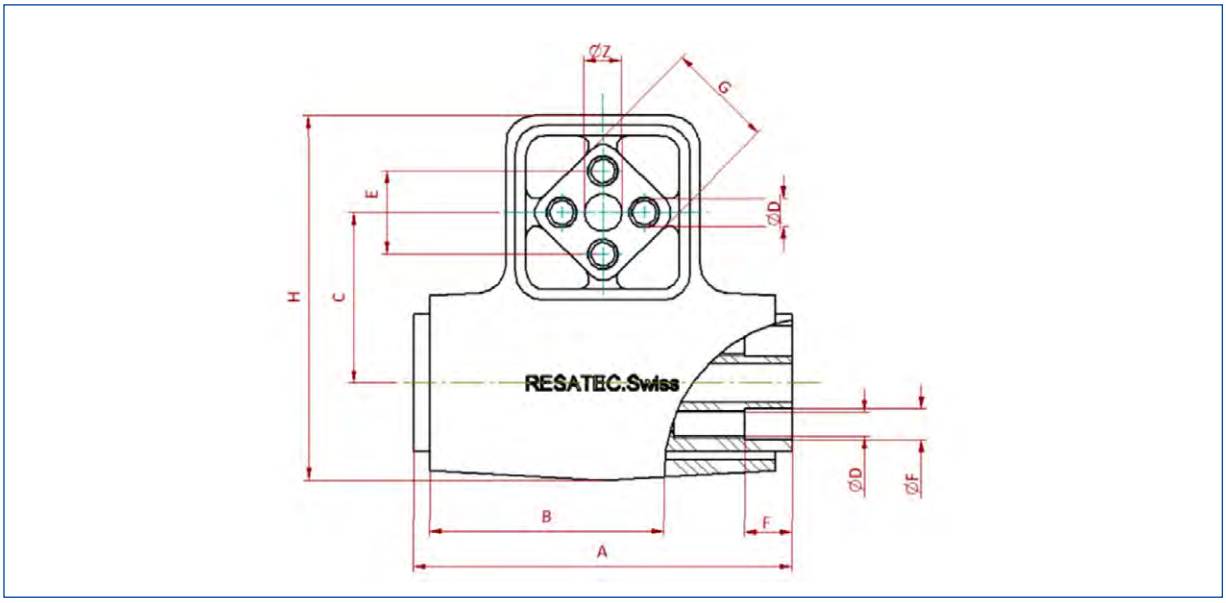
K: oscillating machine factor

W: isolation efficiency

Vm: theo. conveying speed (angle 45°)

GYRATORY SIFTER MOUNT
TYPE CE

The RESATEC gyratory sifter mount type CE enables the mounting of hanging and standing gyratory sifters, as well as standing gyratory sifters with eccentric forced guidance. The pairing of two elements in one support enables a circular and plane oscillating movement. Although RESATEC type CE gyratory sifters are tear and break resistant, CE safety guidelines must be taken into account for hanging installations.



GYRATORY SIFTER MOUNT
TYPE CE

type	H	A +/- 0.3	B	C	ø D	F	G	ø F	E	ø Z	weight	material		
					+ 0,5 0						kg	housing		core
CE 4 – 80	64	85	80	32	6	-	18	-	12	-	0.6	EN GJS 400 ISO 8062-3-DCTG11	Stahl mit Pulverlackierung	Aluminium
CE 5 – 100	97	105	100	45	8	-	27	-	20	-	1.7			
CE 6 – 120	130	130	120	60	10	-	38	-	25	-	3.6			
CE 7 – 150	154	160	150	72	12	-	45	-	35	16	5.4			
CE 8 – 200	172	210	200	78	M12 x 30	40	50	12.5	40	20	10.8			
CE 9 – 300	218	310	292	100	M16 x 40	50	60	16.5	45	-	27	Stahl SN EN ISO 13920 AE		Stahl
CE 11 – 400	280	410	392	136	M20 x 40	50	80	20.5	60	-	72			
CE 12 – 400	340	410	390	170	M 24 x 50	50	100	25	75	-	107			
CE 12 – 500	340	510	500	170	M 24 x 50	50	100	25	75	30H7 x 30	135			

Load values, capacity limits

type	load upright version crank shaft driven	load upright version unbalanced shaft driven	load hanging version	max. excitation speed nerr @ max. oscillating angle +/- 5°	suitable brackets
	Typ	N	N	min $^{-1}$	type
CE 4 – 80	300	190	375	800	MA 3 - 4
CE 5 – 100	750	470	900	780	MA 4 - 5
CE 6 – 120	1500	940	1875	780	MA 5 - 6
CE 7 – 150	2800	1750	3500	580	MA 6 - 7
CE 8 – 200	5500	3400	6800	400	MA 7 - 8
CE 9 – 300	9500	5900	11800	300	-
CE 11 – 400	18000	11250	22500	150	-
CE 12 – 400	32000	20000	40000	100	-
CE 12 – 500	36000	22500	45000	100	-

We recommend minimum screw quality 8.8.

From size CE 8 – 200 the use of shaft screws is recomended.

Same alignment of the elements on the stucture and ooset by 90° for the the elements on the screen box.

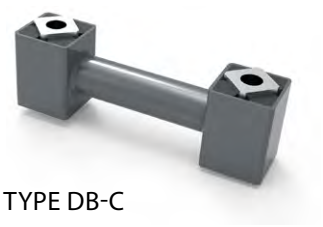
In case of upright design, the centre of gravity must be below the conecting point of the mountings on the screen box.

The maximum angle of oscillation is +/– 5°, otherwise the center distance of the support must be extended.

ROCKERS

TYPE DB-C | DB-F | DB-FM

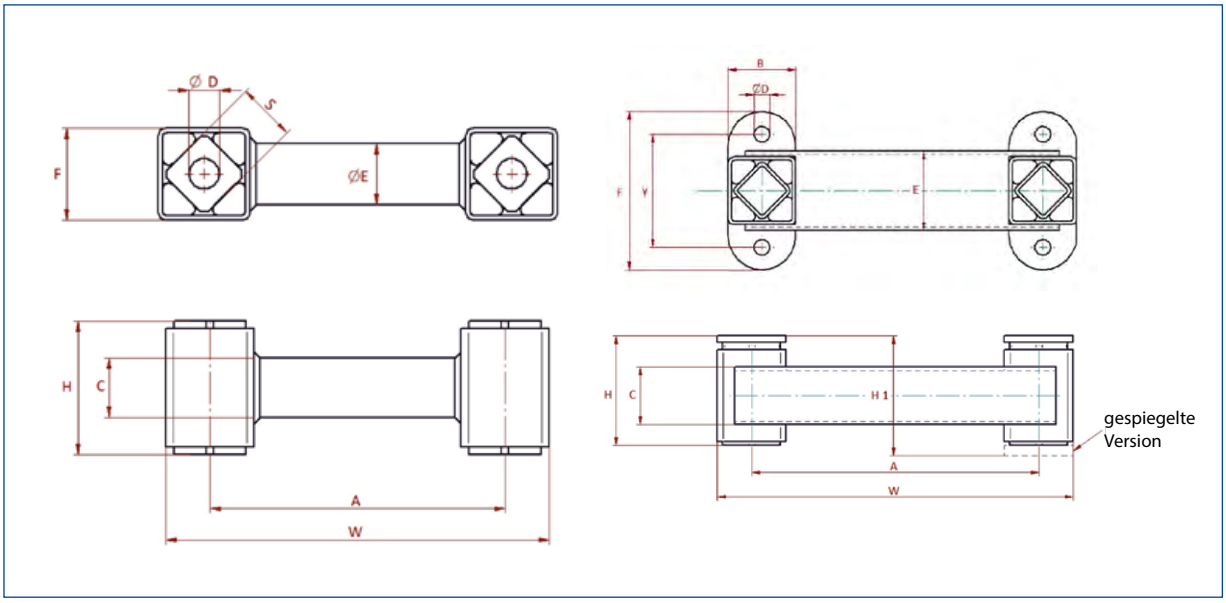
The RESATEC single rocker type DB is used in crank shaft driven conveying, screening, sorting machines, etc. as a guided single mass system for trough support. The single rockers have standardized center distances and can be used for oscillation angles up to +/– 6°. The distance between the individual rockers should not exceed 1.5 m. Type C is designed for central mounting and types F and FM for flange mounting. Customer-specific designs are possible.



TYPE DB-C

DB-F

DB-FM



ROCKERS
TYPE DB-C | DB-F | DB-FM

type	dimensions max. load	Cd	A	C	ø D	E	F	H	W	S	weight	material	
	N	N/mm									kg	housing	core
DB-C 5 – 60 160	420	12	160	34	16	34	50	65	209	27	1.3	steel with powder coating	aluminium
DB-C 6 – 80 200	840	20	200	40	20	40	60	90	260	38	2.0		

type	dimensions max. load	Cd	A	C	ø D	E	F	H	W	S	weight	material	
	N	N/mm									kg	housing	core
DB-F 3 – 40 100	120	5	100	25	16	7	16	70	48	50	0.4	steel with powder coating	
DB-F 4 – 50 120	220	11	120	30	24	8	24	82	61	60	0.7		
DB-F 5 – 60 160	420	12	160	45	34	11	34	110	73	80	1.5		
DB-F 6 – 80 200	820	20	200	60	70	14	50	140	95	100	3.5		
DB-F 7 – 100 200	1620	34	200	70	47	18	47	180	120	130	5.6		
DB-F 8 – 120 250	2520	39	250	80	60	18	60	190	145	140	8.3		

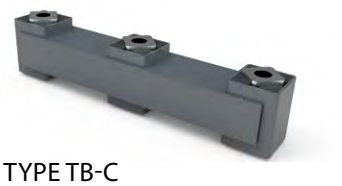
type	dimensions max. load	Cd	A	B	C	D	E	F	H	H1	Y	weight	material	
	N	N/mm										kg	housing	core
DB-FM 3 – 40 100	120	5	100	25	16	7	16	70	48	53	50	0.4	steel with powder coating	
DB-FM 4 – 50 120	220	11	120	30	24	8	24	82	61	65	60	0.7		
DB-FM 5 – 60 160	420	12	160	45	34	11	34	110	73	79	80	1.5		
DB-FM 6 – 80 200	820	20	200	60	70	14	50	140	95	95	100	3.5		
DB-FM 7 – 100 200	1620	34	200	70	47	18	47	180	120	131	130	5.6		
DB-FM 8 – 120 250	2520	39	250	80	60	18	60	190	145	155	140	8.3		

Cd = dynamic spring value by oscillating angles of +/– 5° at speed ranges of 300 – 600 rpm.
Other dimensions on request.

DOUBLE ROCKERS

TYPE TB-C | TB-F | TB-FM

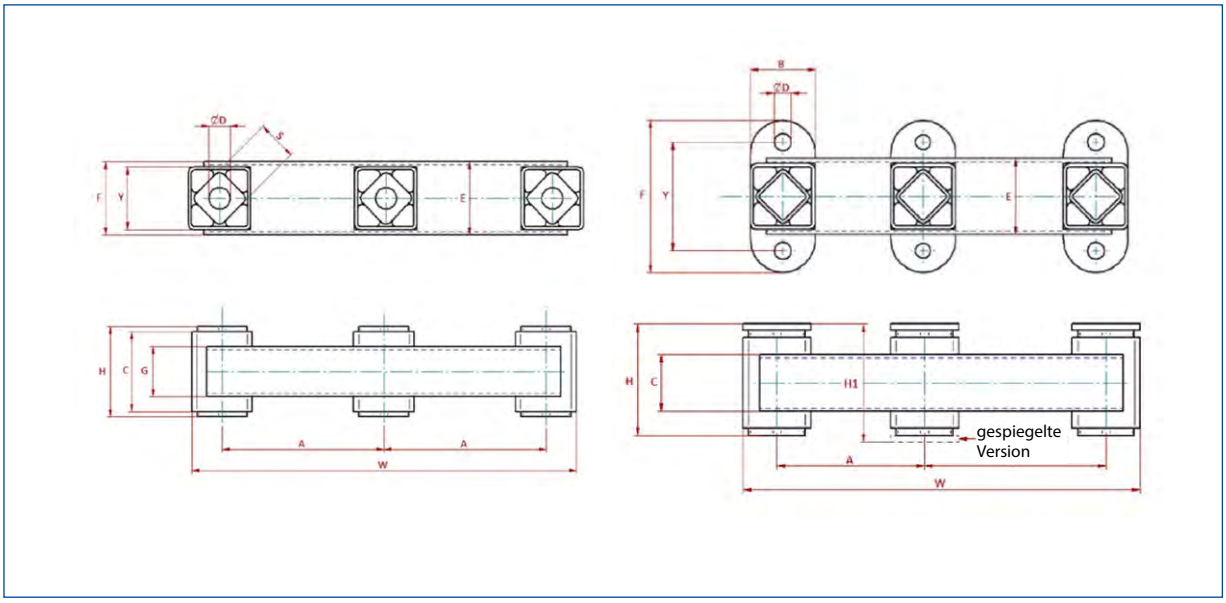
The RESATEC double rocker type TB is used in crankshaft driven conveying, screening, sorting plants etc. as a guided two mass system for trough support. The double rocker arms have standardized center distances and can be used for oscillation angles up to max. +/– 6°. Ideal values are achieved when the two screen decks have the same mass. The distance between the individual swings should not exceed 1.5 m. Type C is designed for central mounting and types F and FM for flange mounting. Customer-specific designs, also with asymmetrical center distances, are possible.



TYPE TB-C

TB-F

TB-FM



DOUBLE ROCKERS

TYPE TB-C | TB-F | TB-FM

type	di-max.	Cd	A	C	øD	E	F	G	H	W	S	Y	material	
	N	N/mm											kg	housing	core
TB-C 5 – 60 120	320	32	120	60	16	50	50	50	65	365	27	55	2.7	steel with powder coating	alumi-nium
TB-C 6 – 80 160 1	620	48	160	80	20	70	70	50	90	380	38	70	3.4		

type	dimesions max. load	Cd	A	B	C	øD	E	F	H	Y	weight	material	
	N	N/mm									kg	housing	core
TB-F 3 – 40 100	75	12	100	25	16	7	16	70	48	50	1.2	steel with powder coating	
TB-F 4 – 50 100	160	23	100	30	40	9	36	82	61	60	1.5		
TB-F 5 – 60 120	310	32	120	45	50	11	50	110	73	80	2.5		
TB-F 6 – 80 160	610	48	160	60	70	14	50	140	86	100	5		
TB-F 7 – 100 200	1210	52	200	70	90	18	50	170	120	130	9.8		
TB-F 8 – 120 250 1	1810	59	250	80	60	18	60	190	145	140	12.9		

type	dimensions max. load	Cd	A	B	C	D	E	F	H	H1	Y	weight	material	
	N	N/mm										kg	housing	core
TB-FM 3 – 40 100	75	12	100	25	18	7	18	70	50	56	50	1.2	steel with powder coating	
TB-FM 4 – 50 100	160	23	100	30	40	9	36	82	61	68	60	1.5		
TB-FM 5 – 60 120	310	32	120	45	50	11	50	110	73	79	80	2.5		
TB-FM 6 – 80 160	610	48	160	60	70	14	50	140	86	104	100	5		
TB-FM 7 – 100 200	1210	52	200	70	50	18	90	170	120	131	130	9.8		
TB-FM 8 – 120 250	1810	59	250	80	60	18	60	190	145	155	140	12.9		

Cd = dynamic spring value by oscillating angles of +/– 5° at speed ranges of 300 – 600 rpm.

Other dimensions on request.

FLOHR - PRODUCTS OVERVIEW

Gears

- *Spiral toothed bevel gears*
- *Bevel gears*
- *Worm gears*
- *Spur gears*
- *Special gears*

Gear Technology

- *Bevel gearboxes*
- *Angle-planetary gearboxes*
- *Worm gearboxes*
- *Cam drives and indexing units*
- *Cam components*
- *Special gearboxes*

Couplings

- *Rigid and flexible couplings*
- *Frictional connections*
- *Drum-coupling*
- *Gear-couplings*
- *Safety couplings*

Friction connections

- *Shrink discs*
- *Shaft couplings*
- *Flange couplings*
- *Locking units*

Clamping technology

- *Manual and pneumatic clamping solutions*
- *Power clamps*
- *Pivot units*
- *End effector solutions*
- *Linear units*
- *Grippers*

Belt drives

- *V-belt and flat belt pulleys*
- *Flywheels*
- *Special pulleys*
- *Motor mounting systems*
- *Drive belts*
- *Customer designed castings*
- *Accessories*

Sensor systems

- *Incremental encoders*
- *Magnetic encoders*
- *Absolute encoders*
- *Electronic overspeed switches*
- *Electronic position switches*
- *Universal encoder systems*
- *Systems*

Contract manufacturing

- *Turning, milling, grinding*
- *Grooving and broaching*
- *Balancing*
- *Calculation and design*
- *Assembly*
- *Service and repair*

FLOHR
INDUSTRIETECHNIK GMBH

FLOHR Germany

FLOHR INDUSTRIETECHNIK GmbH
Im Unteren Tal 1
D-79761 Waldshut-Tiengen
Phone: +49 (0) 77 51 / 87 31 0
info@flohr-industrietechnik.de
www.flohr-industrietechnik.de

FLOHR Switzerland

FLOHR INDUSTRIETECHNIK GmbH
Zilistude 164
CH-5465 Mellikon
Phone: +41 (0) 56 / 267 08 10
info@flohr.ch
www.flohr.ch

FLOHR Austria

FLOHR INDUSTRIETECHNIK
Bucherstraße 37b
A-6922 Wolfurt
Phone: +43 (0) 5572 / 372 158
info@flohr.at
www.flohr.at