

## Technical data

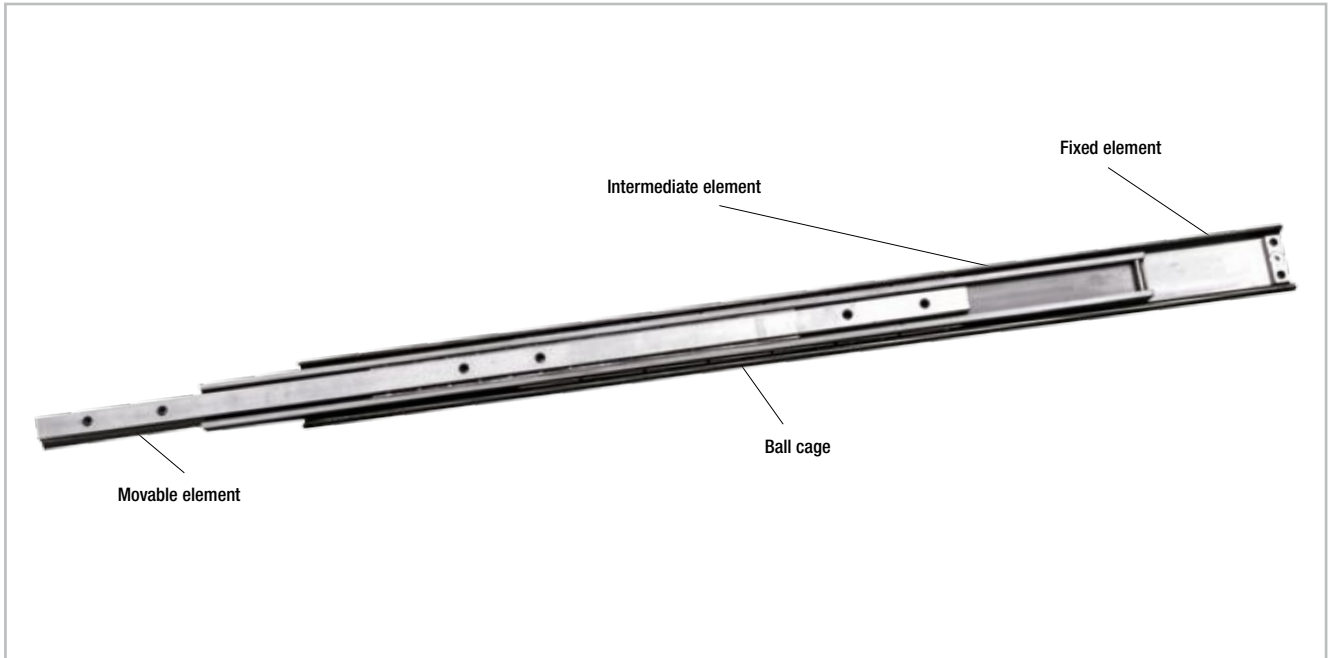


Fig. 56

### Performance characteristics:

- Temperature range: 0 °C to +100 °C (32 °F to +212 °F)  
(in exceptions also -30 °C to +250 °C (-22 °F to +482 °F))
- Max. operating speed 0.8 m/s (depending on the application)
- Different materials and anti-corrosion coatings are available
- Special solutions, such as locking mechanisms, catches, damping elements or Einhaltung are available on request

### Attention!

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant.

### Notes:

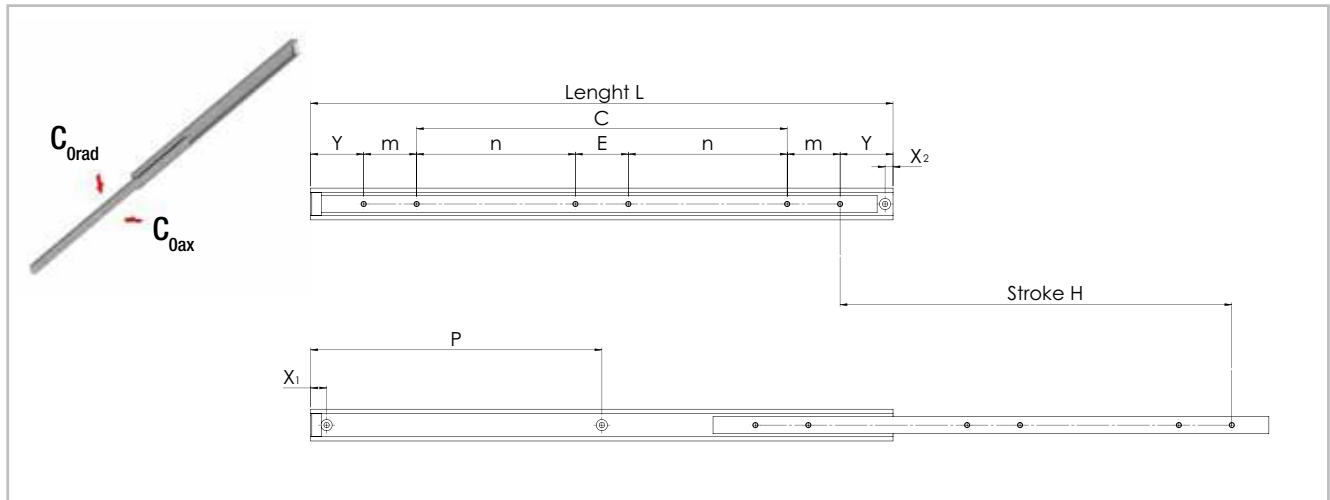
- Horizontal installation is recommended
- Vertical installation on request
- Special strokes on request
- All load capacities refer to one telescopic pair
- Mounting screws with a strength class of 10.9 must be used for all telescopic rails
- Internal stops are provided to stop the sliders when not under load and the ball cage. Please use external stops as limit stops for a system under load
- Not all accessories (interlocks, damping, drive disk, snap) can be combined with each other. Please contact our technical service.
- For models HGT with locking please observe right or left side use.
- Temperature range: LTH und LTF  
-20 °C to +170 °C (-22 °F to +338 °F)
- Temperature range: LTH ...S  
-20 °C to +50 °C (-22 °F to +122 °F)
- Telescopic guides made of aluminum or stainless steel are standard without greasing. If a greasing is desired, it must be stated separately at the order.
- Please note eventually dimensional variations in use of stainless steel. Please contact our technical service.

# Load capacities and dimensions



## Partial extension guides

### > HTT030



All dimensions are indicated in mm

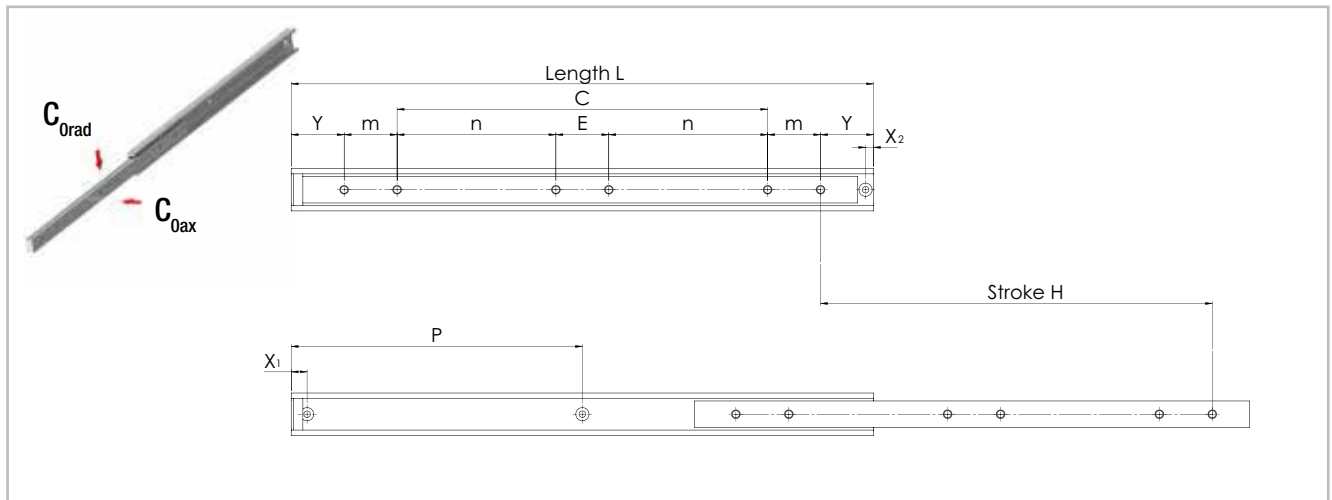
Fig. 57

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
				$C_{0rad}$ [N]	$C_{0ax}$ [N]									
HTT	30	250	130	1100	50 % $C_{0rad}$	15	7.5	50	50	-	-	50	125	4
		300	180	1200								100	150	
		350	230	1150								150	175	
		400	260	1100								200	200	
		450	310	1050								250	225	
		500	340	1000								300	250	
	550	370	950	150	275	6								
	600	400	900	175	300									
	650	430	850	200	325									
	700	460	800	225	350									
	750	490	750	250	375									
	800	520	700	275	400									
	850	550	650	300	425									
	900	600	600	325	450									
	950	630	550	350	475									
	1000	660	500	375	500									

The load capacity for aluminum is 40% and for stainless steel 60% of the stated values, if available in this material variant (see Technical features overview).

Tab. 1

## > HTT040



All dimensions are indicated in mm

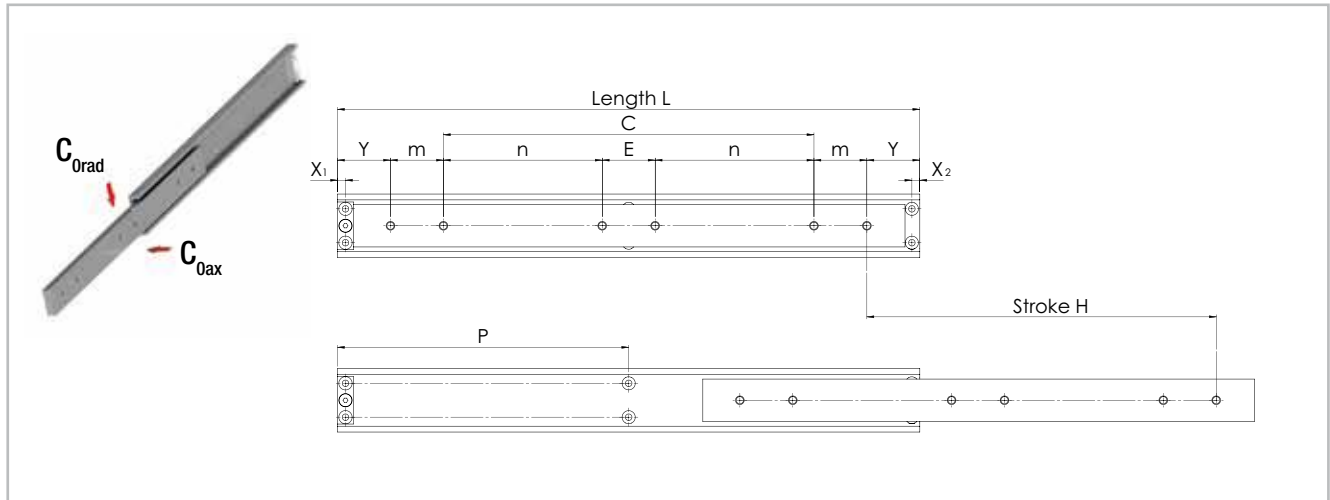
Fig. 58

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
				$C_{0rad}$ [N]	$C_{0ax}$ [N]									
HTT	40	250	130	2100	50 % $C_{0rad}$	15	7.5	50	50	-	-	50	125	4
		300	180	2250								100	150	
		350	230	2350								150	175	
		400	260	2450								200	200	
		450	310	2550								250	225	
		500	340	2500								300	250	
		550	370	2450								150	275	6
		600	400	2400								175	300	
		650	430	2350								200	325	
		700	460	2300								225	350	
		750	490	2250								250	375	
		800	520	2150								275	400	
		850	550	2050								300	425	
		900	600	1950								325	450	
		950	630	1800								350	475	
		1000	660	1650								375	500	

The load capacity for aluminum is 40% and for stainless steel 60% of the stated values, if available in this material variant (see Technical features overview).

Tab. 2

> **HTT050, HTT060**



All dimensions are indicated in mm

Fig. 59

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes				
				C <sub>Orad</sub> [N]	C <sub>Oax</sub> [N]													
HTT	50	300	180	2500	50 % C <sub>Orad</sub>	15	7.5	50	50			100	150	4				
		350	230	2600								150	175					
		400	260	2700								-	-		200	200		
		450	310	2800								250	225					
		500	340	2900								300	250	50	-			6
		550	370	2850								150	275					
		600	400	2800								175	300					
		650	430	2700								200	325					
		700	460	2600								225	350					
		750	490	2500								250	375					
		800	520	2400								275	400					
		850	550	2300								300	425					
		900	600	2200								325	450					
		950	630	2100								350	475					
		1000	660	2000								375	500					
		1100	690	1850								425	525					
1200	720	1650	475	550														

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

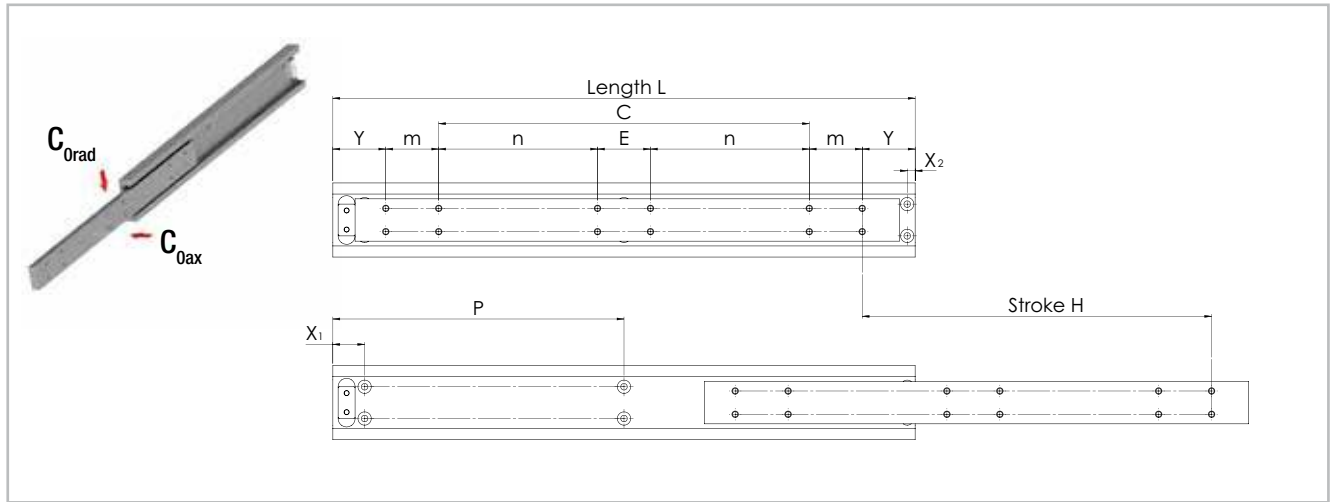
Tab. 3

Type	Size	Length		Stroke		Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
		L [mm]	H [mm]	C <sub>0rad</sub> [N]	C <sub>0ax</sub> [N]											
HTT	60	300	180	3200	50 % C <sub>0rad</sub>	7.5	7.5	50	50	-	-	-	50	100	150	4
		350	210	3250										150	175	
		400	240	3300										200	200	
		450	270	3350										250	225	
		500	300	3400										300	250	
		550	330	3350										150	275	6
		600	360	3300										175	300	
		650	390	3250										200	325	
		700	420	3200										225	350	
		750	450	3100										250	375	
		800	480	3000										275	400	
		850	510	2900										300	425	
		900	540	2800										325	450	
		950	570	2700										350	475	
		1000	600	2600										375	500	
		1100	660	2450										425	550	
		1200	720	2250										475	600	
		1300	780	2050										525	650	
		1400	840	1900										575	700	
		1500	900	1700										625	750	

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 4

> HTT070, HTT080, HTT100, HTT120, HTT150



All dimensions are indicated in mm

Fig. 60

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
				$C_{Orad}$ [N]	$C_{Oax}$ [N]									
HTT	70	500	300	4200	50 % $C_{Orad}$	30	7.5	50	50		-	300	250	8
		550	330	4150						150	275			
		600	360	4100						175	300			
		650	390	4050						200	325			
		700	420	4000						225	350			
		750	450	3900						250	375			
		800	480	3800						275	400			
		850	510	3700						300	425			
		900	540	3600						325	450			
		950	570	3450						350	475			
		1000	600	3300						375	500			
		1100	660	3100						425	550			
		1200	720	2900						475	600			
		1300	780	2700						525	650			
		1400	840	2400						575	700			
		1500	900	2100						625	750			
		1600	960	1800						675	800			
1700	1020	1500	725	850										

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 5

Type	Size	Length		Stroke		Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
		L [mm]	H [mm]	C <sub>Orad</sub> [N]	C <sub>Oax</sub> [N]											
HTT	80	500	300	4800	50 % C <sub>Orad</sub>	35	15	100	100					100	250	8
		550	330	4900										150	275	
		600	360	5000										200	300	
		650	390	4900										250	325	
		700	420	4800										300	350	
		750	450	4700										350	375	
		800	480	4600										400	400	
		850	510	4500										450	425	
		900	540	4400										500	450	
		950	570	4250										550	475	
		1000	600	4100										600	500	
		1100	660	3800										300	550	12
		1200	720	3500										350	600	
		1300	780	3200										400	650	
		1400	840	2900										450	700	
		1500	900	2600										500	750	
		1600	960	2300										550	800	
1700	1020	2000	600	850												
HTT	100	700	420	9000	50 % C <sub>Orad</sub>	35	12	100	200					100	350	8
		750	450	9500										150	375	
		800	480	10000										200	400	
		850	510	9750										250	425	
		900	540	9500										300	450	
		950	570	9250										350	475	
		1000	600	9000										400	500	
		1100	660	8500										150	550	12
		1200	720	8000										200	600	
		1300	780	7500										250	650	
		1400	840	6900										300	700	
		1500	900	6300										350	750	
		1600	960	5700										400	800	
		1700	1020	5100										450	850	
		1800	1080	4500										500	900	
		1900	1140	3900										550	950	
		2000	1200	3300										600	1000	

The given load capacity for aluminum is 40% and for stainless steel 60% of the stated values, if available in this material variant (see Technical features overview).

Tab. 6

## Other sizes and versions are available on request

Type	Size	Length L [mm]	Load capacity per pair	
			$C_{0rad}$ [N]	$C_{0ax}$ [N]
HTT	120	700	11500	50 % $C_{0rad}$
		⋮	⋮	
		2000	4700	
HTT	150	700	14500	50 % $C_{0rad}$
		⋮	⋮	
		2000	6400	

The given load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 7



> **HTT**

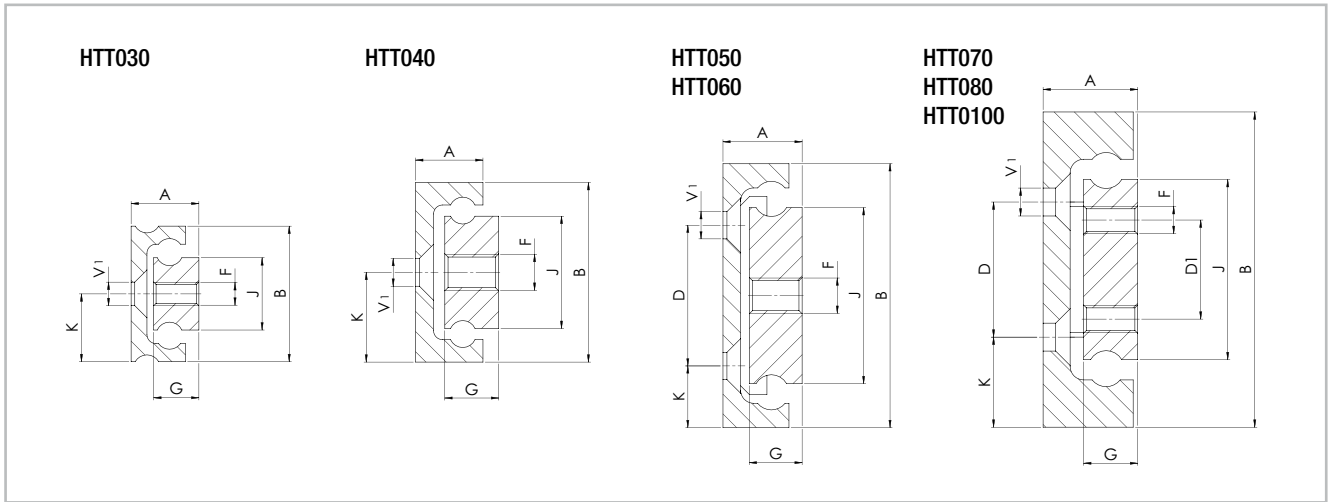


Fig. 61

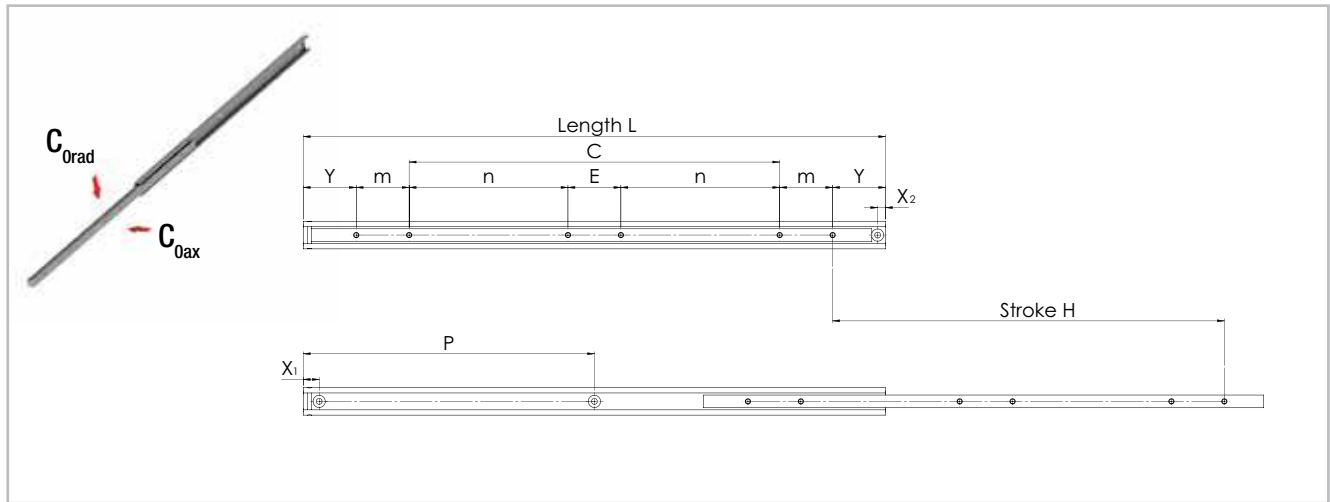
All dimensions are indicated in mm

<sup>1</sup> Mounting holes (V) for countersunk screws according to DIN 7991/ISO 10642

Type	Size	A	B	J	G	K	D	D1	F	V1	Weight [kg/m]
HTT	30	15	30	16	10	15	-	-	M6	M5	2.4
	40	18.5	40	25	-	20	-	-	M8	M6	4.3
	50	19.5	50	30	-	12.5	25	-			5.6
	60	18	60	40	12	14	32	-	M6	M6	7.7
	70	21.3	70	40	-	20	30	22			M6
	80	22.1	80	50	-	25	-	30	M8	M8	10.4
	100	26	100	70	15	27.5	45	45	M10	M8	17

Tab. 8

> HTC026



All dimensions are indicated in mm

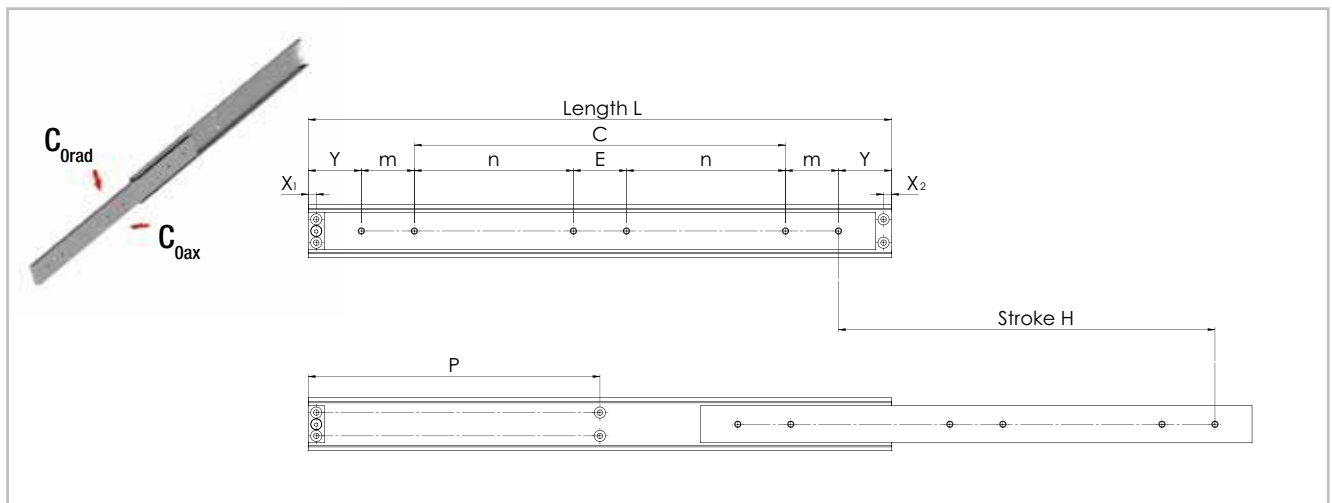
Fig. 62

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
				C <sub>Orad</sub> [N]	C <sub>Oax</sub> [N]									
HTC	26	250	130	700	50 % C <sub>Orad</sub>	15	7.5	50	50	-	-	50	125	4
		300	180	750								100	150	
		350	230	750								150	175	
		400	260	700								200	200	
		450	310	650								250	225	
		500	340	600								300	250	
		550	370	550								150	275	6
		600	400	500								175	300	
		650	430	450								200	325	
		700	460	400								225	350	
		750	490	350								250	375	
		800	520	300								275	400	
		850	550	250								300	425	
		900	600	220								325	450	
		950	630	200								350	475	
		1000	660	180								375	500	

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 9

## > HTC045, HTC050, HTC058



All dimensions are indicated in mm

Fig. 63

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes
				$C_{0rad}$ [N]	$C_{0ax}$ [N]									
HTC	45	300	180	1250	50 % $C_{0rad}$	7.5	7.5	50	50			100	150	4
		350	230	1300								150	175	
		400	260	1250								200	200	
		450	310	1200								250	225	
		500	340	1150								300	250	6
		550	370	1100								150	275	
		600	400	1050								175	300	
		650	430	1000								200	325	
		700	460	950								225	350	
		750	490	900								250	375	
		800	520	850								275	400	
		850	550	800								300	425	
		900	600	750								325	450	
		950	630	700								350	475	
		1000	660	650								375	500	
		1100	720	550								425	550	
		1200	800	450								475	600	

The load capacity for aluminum is 40% and for stainless steel 60% of the stated values, if available in this material variant (see Technical features overview).

Tab. 10

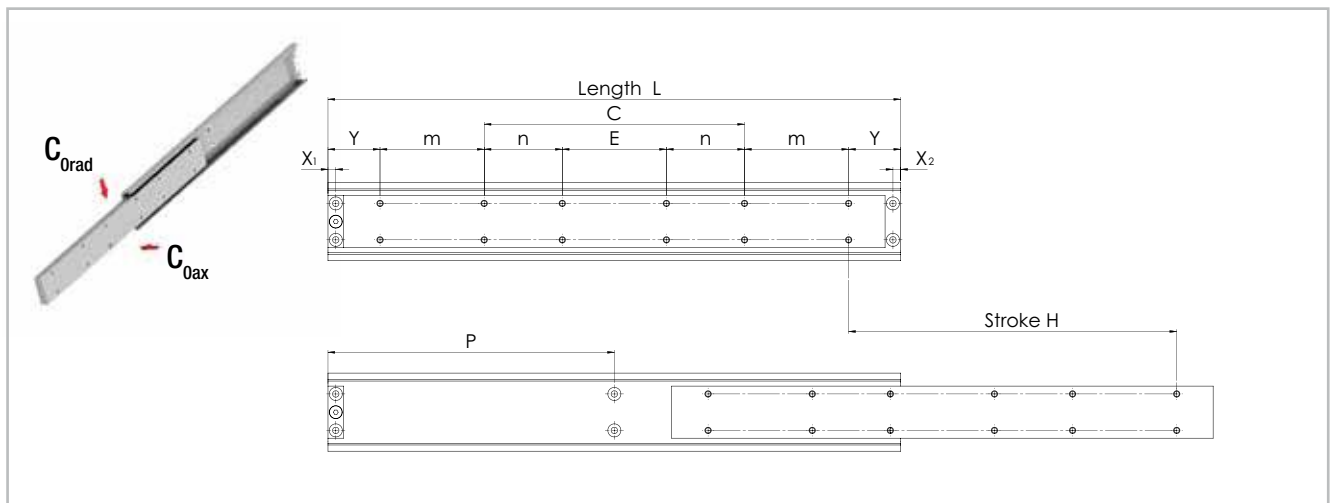
## 4 Load capacities and dimensions

Type	Size	Length	Stroke	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes	
				C <sub>0rad</sub> [N]	C <sub>0ax</sub> [N]										
HTC	50	300	180	1500	50 % C <sub>0rad</sub>	7.5	7.5	50	50		50	-	100	150	4
		350	230	1600									150	175	
		400	260	1700									200	200	
		450	310	1800									250	225	
		500	340	1750									300	250	6
		550	370	1700									150	275	
		600	400	1650									175	300	
		650	430	1600									200	325	
		700	460	1550									225	350	
		750	490	1450									250	375	
		800	520	1350									275	400	
		850	550	1250									300	425	
		900	600	1150									325	450	
		950	630	1050									350	475	
		1000	660	950									375	500	
		1100	720	750									425	550	
		1200	800	550									475	600	
		HTC	58	300									180	2200	
350	230			2300	150	175									
400	260			2400	200	200									
450	310			2500	250	225									
500	340			2450	300	250	6								
550	370			2400	150	275									
600	400			2350	175	300									
650	430			2300	200	325									
700	460			2200	225	350									
750	490			2100	250	375									
800	520			2000	275	400									
850	550			1900	300	425									
900	600			1800	325	450									
950	630			1700	350	475									
1000	660			1600	375	500									
1100	720			1400	425	550									
1200	800			1200	475	600									
1300	860			1000	525	650									
1400	920	800	575	700											
1500	1000	600	625	750											

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 11

## > HTC075



All dimensions are indicated in mm

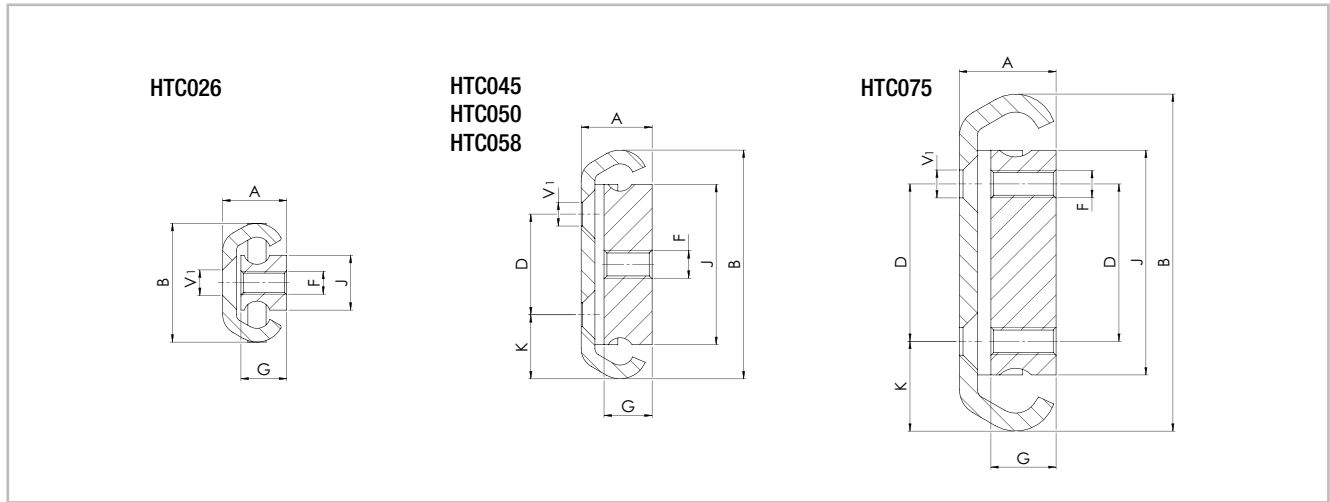
Fig. 64

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity per pair		X1	X2	Y	m	n	E	C	P	Number of holes						
				$C_{0rad}$ [N]	$C_{0ax}$ [N]															
HTC	75	400	240	2800	50 % $C_{0rad}$	7.5	7.5	50	100			150	200	6						
		450	270	2850								-	-		175	225				
		500	300	2900											200	250				
		550	330	3000												75			275	12
		600	360	2950												100			300	
		650	390	2900												125			325	
		700	420	2850												150			350	
		750	450	2800												175			375	
		800	480	2750												200			400	
		850	510	2700												225			425	
		900	540	2650												250			450	
		950	570	2600												275	100	-	475	
		1000	600	2500												300			500	
		1100	660	2250												350			550	
		1200	720	2000												400			600	
		1300	780	1750												450			650	
		1400	840	1500												500			700	
		1500	900	1200												550			750	
1600	960	900					600			800										
1700	1020	700					650			850										

The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant (see Technical features overview).

Tab. 12

> HTC



All dimensions are indicated in mm  
 V<sup>1</sup> Mounting holes (V) for countersunk screws according to DIN 7991/ISO 10642

Fig. 65

Type	Size	A	B	J	G	K	D	F	V1	Weight [kg/m]
HTC	26	14	26	12	10	-	-	M5	M5	1.81
	45	15.5	45	30	10	11.5	22	M6	M6	3.80
	50		50	35	10.5	14	22		M5	3.80
	58	17.5	58	40	12	13	32	M8	M6	7.10
	75	21.5	75	50	14.5	20	35	M6		8.80

Tab. 13