



# Cable Carriers

## IDEALFLEX



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by the European Fund for Regional Development  
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## Company Profile

Our company was founded in 1995 for production of protective components for the moving parts of machine tools

### 1995

- Founding of the company HENNIG-IDEAL s.r.o.
- Beginning of the production of telescopic covers for the Czech market

### 1997

- Beginning of the production of steel flexible cable carriers, 95 % of which for export to Germany
- Beginning of the export of telescopic covers to Germany

### 1999

- The market share in telescopic covers in the Czech Republic is more than 90 %
- The share of export is 30 to 50 % of the company turnover

### 2001

- Beginning of the production of guide way wipers
- Moving to a new manufacturing plant with a production area of 3000 m<sup>2</sup>. In this area, the production of telescopic covers can be increased to a target capacity of 2,000 to 2,500 covers per month.
- Cancel of the company HENNIG-IDEAL s.r.o.
- Founding of the company HESTEGO s.r.o.

### 2003

- Purchase of a CNC Trumatic 6000 L plate forming centre including a TRUMPF Sheet Master 1606 multifunctional automation control system offering a state-of-the-art punching, forming and laser cutting technology.
- ČSN EN ISO 9001 quality system introduction and certification by TÜV Rheinland.
- Beginning of preparatory and design work on the Vyškov manufacturing plant extension by 3200 m<sup>2</sup> of production area.

### 2005

- Building completion of the 2nd phase of our manufacturing plant with its manufacturer's area of 3200 m<sup>2</sup>
- Installation of CNC center for metal machining BYSTRONIC-BYSTAR 3015/4400 W
- Installation of powder paint line IDEAL-LINE
- Displacement of firm domicile to Vyškov
- Start of active participation in international trade fairs of engineering

The company owns a very efficient design software enabling a 3D design. Thanks to our long experience in the telescopic covers design and development we are able to comply with wishes and needs of the most demanding customers. Our firm successfully combines own production with sub-contracted orders for metal sheet made cooperation.

## IDEALFLEX Cable Carriers

It is a closed cable carrier made of galvanized sheet, which consists of a carrying section and a steel guiding strip which is connected to one of the four sides of this section. This enables only a one-way bend to the side of the steel strip. Bends in the other directions are disabled. It is proven by load tests that nor after 10 million cycles are the cables damaged nor is the flexible carrier worn.

IDEALFLEX meets the technical and safety regulations and complies with the DIN 57113/VDE 0113 standards.

The cable carrier is also resistant to all cooling liquids and lubricants commonly used with machine tools.

### Attachment

On both ends of the section, there are stubbed or riveted on flanges which can be attached by several ways. (See the table.)

Cables and hoses which are laid loose in the section must be fixed to both ends of the carrier. To ensure the maximum service life of IDEALFLEX, it is necessary to provide its support or guiding in a channel if the section is long. The length of the channel should be equal to at least a half of the length of elevation. The most suitable attachment of the end of a cable carrier is in the middle of the elevation distance. In this way the shortest length of the carrier and the lowest price can be achieved.

When choosing the type of IDEALFLEX, it is necessary to count on a 10% reserve for a cable. In the case of cables that should lead separately, a double carrier can be chosen, which is attached to one guiding strip. The carriers are distant 5 mm from each other.

The bend radii are shown in the table of sizes. In case of any doubts, the nearest possible higher bend radius can be selected. If this radius cannot be adjusted to the recommended values, the approximate bend radius can be determined as the 8th to 10th multiple of the outer diameter of cables.

IDEALFLEX cable carriers are supplied in three qualities divided according to the required rate of movement:

■ **RM quality (for a low rate of movement)** to 20 m/min IDEALFLEX with a steel guiding strip.

■ **RS quality (for a medium rate of movement)** 20 to 50 m/min IDEALFLEX with a steel guiding strip glued with a special adhesive.

■ **RV quality (for a high rate of movement)** over 50 m/min IDEALFLEX with a synthetic guiding strip glued with a special adhesive.

Carriers for the cables can be delivered either as single or double (so-called tandems).

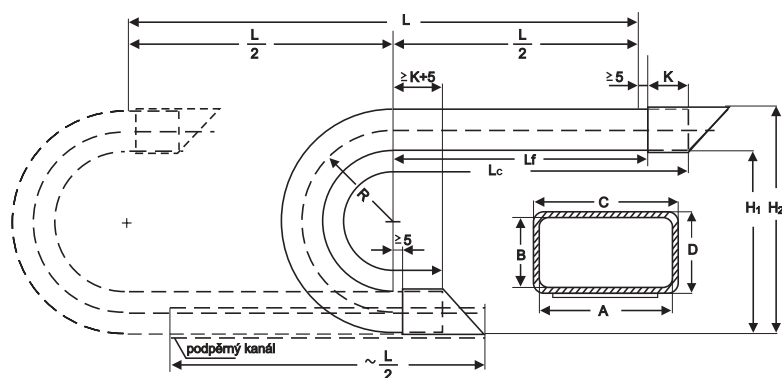
## Order

### Explanations of code designation of IDEALFLEX for a subsequent order:

85 J 165 RM X1-2000 H

85	IDEALFLEX type
J	carrier type: J – single, D – double (so-called tandems)
165	bend radius R
RM	rate of movement (to 20 m/min)
X	upper flange (front)
T	ower flange (standard)
2000	length Lc
H	working position (H – horizontal)





- A×B** inner dimensions of carrying section
- C×D** outer dimensions of carrying section
- k** depth of embending of carrying section in flange
- R** bend radius
- H1** minimum height of support
- H2** height
- Lf** self-carrying length
- L** elevation length (working length)
- Lc** total length of IDEALFLEX

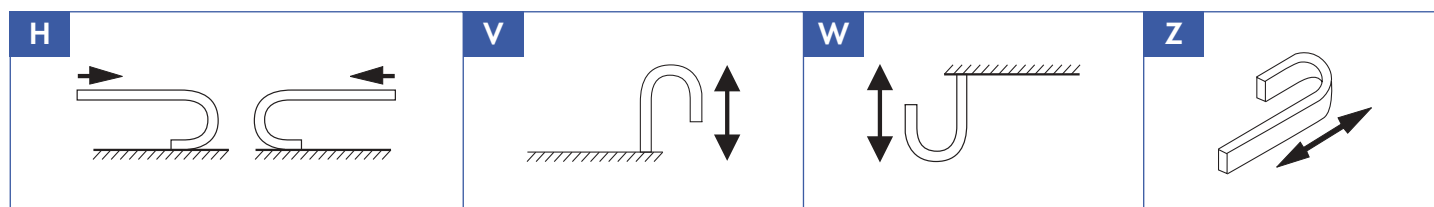
Calculation of IDEALFLEX length:  
 $L_c = L/2 + \pi R + 2k + 10$  [mm]



## Types of Carriers

Type	C	D	A	B	k	R	H1 incl.	H2 preload	Lfmax	L without support	L with support	Carrier weight (kg/m)	Flange weight (kg/pc)
30	30	20	26	16	25	55	120	144	1000	2000	4000	0,6	0,05
50	50	30	43	23	30	72	160	194	1500	3000	6000	1,25	0,1
						110	235	269					
						165	345	379					
50.1	50	50	45	45	50	110	240	294	2000	4000	8000	1,7	0,15
80	80	45	73	38	45	110	240	290	2000	4000	8000	2,25	0,25
						220	460	510					
						275	570	620					
85	85	60	80	55	65	165	350	415	2500	5000	10000	2,4	0,3
95	95	50	90	45	60	130	280	335	2000	4000	8000	2,9	0,3
110	110	60	102	52	60	155	335	400	2500	5000	10000	3,6	0,5
						250	525	590					
						330	685	750					
115	115	80	109	74	80	220	465	550	2500	5000	10000	3,8	0,6
170	170	80	162	72	80	205	435	520	2500	5000	10000	5,6	0,85
175	175	110	167	102	80	285	600	717	2500	5000	10000	5,8	1,95

## Working position of Carrier



## Standard Flanges

Type	a	b	d1	d	e	k1	k	t	d2
30	34	24	13	6	40	50	25	1,5	-
50	54	34	22	7	45	60	30	1,5	-
50.1	54	54	20	7	75	100	50	1,5	-
80	85	50	50	7	67,5	90	45	2	-
85	90	65	50	7	118	130	65	2	40
95	100	55	50	7	110	120	60	2	40
110	115	65	70	9	90	120	60	2	-
115	120	85	80	9	143	165	80	2	40
170	175	85	100	9	120	180	80	2	-
175	182	117	140	9	158	195	80	3	40

## Flange - X type

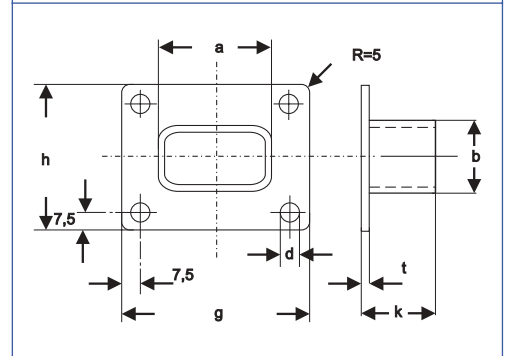
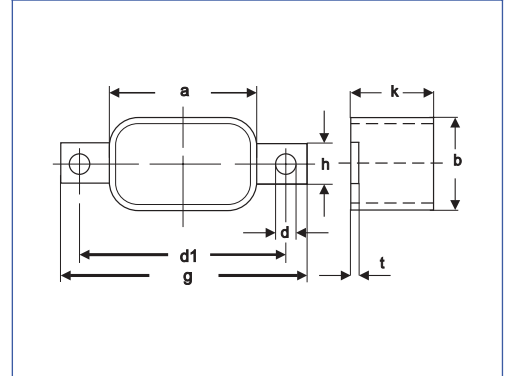
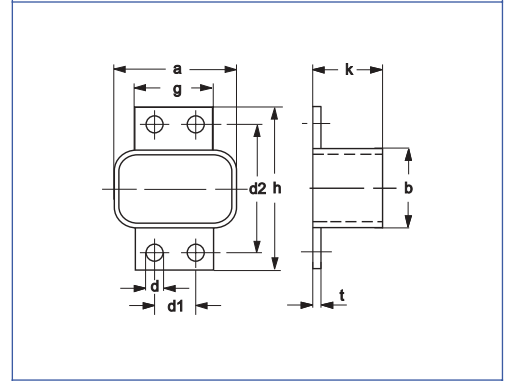
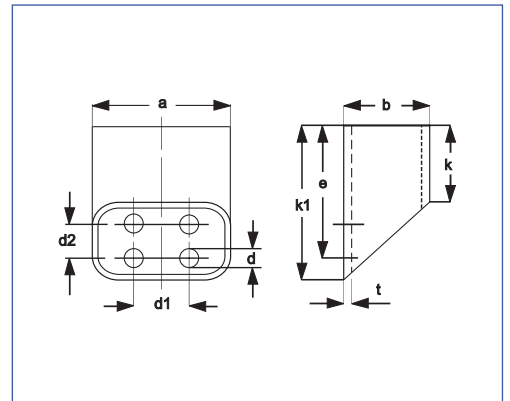
Type	a	b	d1	d	g	h	d2	k	t
50	54	34	18	7	35	70	55	30	1,5
80	85	50	45	7	65	85	70	45	2
110	115	65	60	9	80	110	90	60	2
170	175	85	95	9	120	130	110	80	2

## Flange - Y type

Type	a	b	d1	d	g	h	k	t
50	54	34	75	7	90	15	30	1,5
80	85	50	105	7	120	30	45	2
110	115	65	140	9	160	35	60	2
170	175	85	200	9	220	40	80	2

## Flange - Z type

Type	a	b	d	g	h	k	t
30	34	24	6	60	50	25	1,5
50.1	54	54	7	85	85	50	1,5
85	90	65	7	120	95	65	2
95	100	55	7	130	85	60	2
115	120	85	9	150	115	80	2
175	182	117	9	210	145	80	3



## Mounting techniques of standard flanges

