

## HUNGER Expanding reamers

### In special steel For hand use

Blades are not radially equidistant to eliminate vibrations  
Set of spare blades, ready to use  
Blade sharpening with progressive rake allows perfectly smooth reaming  
High precision parallel expansion  
Fully meets strict tolerances for high volume reaming

### With long blades

#### F 7622/1 - Reamers with blades F 7622/2 - Set of spare blades



Expansion mm	Code F 7622	F 7622/1	Code F 7622	F 7622/2	Overall length mm	Cutting edge length mm	□ mm	N° of blades	Expansion mm	Code F 7622	F 7622/1	Code F 7622	F 7622/2	Overall length mm	Cutting edge length mm	□ mm	N° of blades
....	....	Each €	....	Each €					....	....	Each €	....	Each €				
10,5÷12	1105		2105		160	65	5,5	5	21,5÷24,5	1215		2215		260	120	10	5
12÷13,5	1120		2120		170	70	6,2	5	24,5÷27,5	1245		2245		280	130	11	5
13,5÷15,5	1135		2135		195	80	7	5	27,5÷31,5	1275		2275		310	140	12	6
15,5÷17,5	1155		2155		215	90	8	5	31,5÷37	1315		2315		320	150	14,5	6
17,5÷19,5	1175		2175		230	100	9	5	37÷45	1370		2370		370	165	16	6
19,5÷21,5	1195		2195		240	110	10	5	45÷55	1450		2450		425	180	20	6

### With 1 centering cone bushing

Expansion range: 0,01 mm graduation  
The pilot and the centering cone bushing allows reaming short, long and inline holes

#### F 7646 - Reamers with blades F 7647 - Set of spare blades



Expansion mm	Code F 7646	F 7646	Code F 7647	F 7647	Overall length mm	Cutting edge length mm	□ mm	N° of blades	Expansion mm	Code F 7646	F 7646	Code F 7647	F 7647	Overall length mm	Cutting edge length mm	□ mm	N° of blades
....	....	Each €	....	Each €					....	....	Each €	....	Each €				
8÷9	0080		0080		175	32	4,3	5	24÷27,5	0240		0240		335	75	11	5
9÷10	0090		0090		175	32	4,3	5	27,5÷31,5	0275		0275		365	80	12	6
10÷11	0100		0100		185	35	4,9	5	31,5÷37	0315		0315		400	90	14,5	6
11÷12	0110		0110		195	35	6,2	5	37÷45	0370		0370		465	100	16	6
12÷13,5	0120		0120		215	42	6,2	5	45÷55	0450		0450		530	109	20	6
13,5÷15,5	0135		0135		235	50	7	5	55÷65	0550		0550		570	120	24	8
15,5÷18	0155		0155		265	60	8	5	65÷80	0650		0650		670	145	29	10
18÷21	0180		0180		290	65	9	5	80÷95	0800		0800		700	150	32	10
21÷24	0210		0210		310	70	10	5	95÷110	0950		0950		700	150	36	10

### Set of reamers F 7646

In wood box

Pieces	n°	11	13
Code		F 7648 0011	F 7648 0013
<b>F 7648</b>	Each €		
Expansion range	mm	8 ÷ 31,5	8 ÷ 45



### With 2 centering cone bushings

Expansion range: 0,02 mm graduation  
Pilots and centering cone bushings allow perfect reaming of multiple inline holes  
Short blades, more affordable and efficient than reamers with long and extra-long blades

#### F 7650 - Reamers with blades F 7651 - Set of spare blades



Expansion mm	Code F 7650	F 7650	Code F 7651	F 7651	Overall length mm	Cutting edge length mm	□ mm	N° of blades	Expansion mm	Code F 7650	F 7650	Code F 7651	F 7651	Overall length mm	Cutting edge length mm	□ mm	N° of blades
....	....	Each €	....	Each €					....	....	Each €	....	Each €				
19,5÷22,5	0195		0195		352	44	13	5	34÷39	0340		0340		440	54	18	6
21÷24,5	0210		0210		352	44	13	5	39÷45	0390		0390		475	60	18	6
24,5÷29	0245		0245		385	48	13	6	45÷52	0450		0450		500	60	18	6
29÷34	0290		0290		418	52	16	6	59÷66*	0590		—		500	60	18	6

Sets of blades with "HARD CHROME" coating are available upon request\* For blades, see F 7651 0450

### Seat bush for a precise alignment

