



Stockrange North America Gamme de stock Amérique du Nord

Century of production excellence

RAMPA®
INSERTS - SCREWS

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www.rampa.com



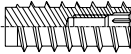
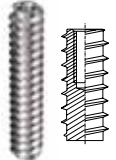
	Page	Material				Quality				Assembling			
													
SK	6	•	•			•	•			•	•	•	 soft-, plywoods, chipboard*
SKL	8	•	•			•	•	•	•	•	•		 hardwoods, MDF boards*
SKD	9	•	•			•	•			•	•	•	 metal
SKDZ	10	•				•				•	•		 plastics
SKDL	12	•								•			
A	13	•			•	•	•			•	•	•	
B	14	•			•	•	•			•	•	•	
C	16	•			•	•	•			•	•	•	
CV	17	•			•	•	•			•	•	•	
CA	17	•			•	•	•			•	•	•	
BL	18	•				•	•	•	•	•	•	•	
D	19	•	•			•	•			•	•	•	
DVZ	20	•				•				•	•		
SKZ	21	•				•				•	•		
ES	22		•	•	•	•	•			•	•	•	
ESD	23		•	•	•	•	•			•	•	•	
ESK	23		•	•	•	•	•			•	•	•	
BAN/BAV	24		•	•	•	•	•			•	•	•	
BAS	25		•	•	•	•	•			•	•	•	

 standardized internal thread
 ETA approved
 RoHS-compliant
 CE compliant
 fully-automated processing
 manual processing
 semi-automated processing

 appropriate application
 possible application

*see www.rampa.com

RAMPA Inserts for wood applications

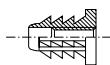
as of page 6	  SK 6/7	  SKL 8	  SKD 9	  SKDZ 10/11	  SKDL 12	  A 13	  B 14/15
	  C 16	  CV 17	  CA 17	  BL 18	  D 19	  DVZ 20	  SKZ 21

RAMPA Inserts for metal & plastic applications

as of page 22	  ES 22	  ESD 23	  ESK 23	  BAN BAV 24	  BAS 25
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customized articles
on request
produits spéciaux
sur demande

RAMPA Knock-In Inserts

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	TS 26	TSBZ 27	TSZ 28	TSLT 29	TSLZ 29

RAMPA Cross Dowels

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	Q 30/31

RAMPA Cap Nuts

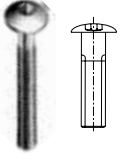
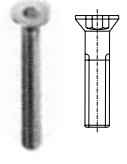
as of page 32				
				
	RF 32	RFL 33	RT 34	RTL 35

RAMPA Connecting Systems

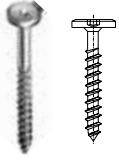
as of page 36					
	VX 36	VXXL 37	VDZR VDZS 38	VEZR VEZS 39	VSE 39

customized articles
on request
produits spéciaux
sur demande

RAMPA Bolts with metric thread

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	KF	KT	KFS	KS
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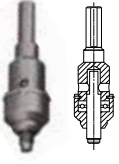
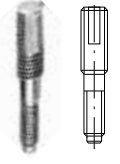
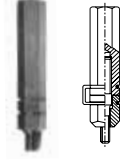
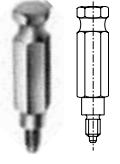
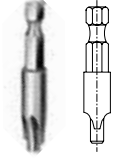
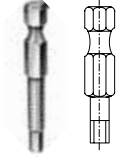
RAMPA Screws

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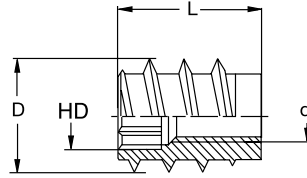
RAMPA Connecting Elements

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RAMPA Tools

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customized articles
on request
produits spéciaux
sur demande



RAMPA Inserts Type SK
with hex socket drive. An
unthreaded lead supports
easy assembly.

Inserts RAMPA modèle SK
A six pans creux, l'embout
sans filetage facilite le
montage.

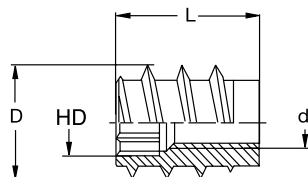
SK

UNC

Code	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
010 410 101	8 (0.315)	10 (0.394)	8-32 UNC	4	1,9 (4.19)	100	1.000	10.000	•
010 512 101	10 (0.394)	12 (0.472)	10-24 UNC	5	2,8 (6.17)	100	1.000	5.000	•
010 610 101	12 (0.472)	10 (0.394)	1/4"-20 UNC	6	4,0 (8.82)	100	500	5.000	•
010 612 101	12 (0.472)	12 (0.472)	1/4"-20 UNC	6	4,8 (10.58)	100	500	4.000	•
010 615 101	12 (0.472)	15 (0.591)	1/4"-20 UNC	6	6,0 (13.29)	100	500	3.000	•
010 618 101	12 (0.472)	18 (0.709)	1/4"-20 UNC	6	7,0 (15.43)	100	400	3.000	•
010 620 101	12 (0.472)	20 (0.787)	1/4"-20 UNC	6	7,8 (17.20)	100	250	2.500	•
010 630 101	12 (0.472)	30 (1.181)	1/4"-20 UNC	6	13,0 (28.66)	100	200	1.500	•
010 855 101	14 (0.551)	15 (0.591)	5/16"-18 UNC	8	7,3 (16.09)	100	250	1.500	•
010 858 101	14 (0.551)	18 (0.709)	5/16"-18 UNC	8	8,7 (19.18)	100	250	2.500	•
010 870 101	14 (0.551)	30 (1.181)	5/16"-18 UNC	8	15,0 (33.07)	100	200	1.000	•
010 830 101	16 (0.630)	30 (1.181)	5/16"-18 UNC	8	25,9 (57.10)	100	—	1.000	•
010 130 101	18,5 (0.728)	30 (1.181)	3/8"-16 UNC	10	29,2 (64.37)	100	—	500	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type SK
 with hex socket drive. An
 unthreaded lead supports
 easy assembly.

Inserts RAMPA modèle SK
 A six pans creux, l'embout
 sans filetage facilite le
 montage.

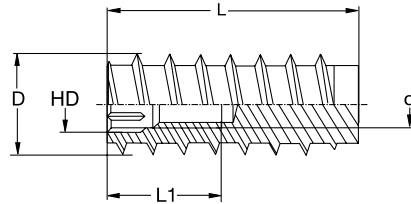
SK

metric

Code	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
010 410 001	8 (0.315)	10 (0.394)	M 4	4	1,9 (4.19)	100	1.000	10.000	•
010 512 001	10 (0.394)	12 (0.472)	M 5	5	2,8 (6.17)	100	1.000	5.000	•
010 610 001	12 (0.472)	10 (0.394)	M 6	6	4,0 (8.82)	100	500	5.000	•
010 612 001	12 (0.472)	12 (0.472)	M 6	6	4,8 (10.58)	100	500	5.000	•
010 615 001	12 (0.472)	15 (0.591)	M 6	6	6,0 (13.23)	100	500	5.000	•
010 618 001	12 (0.472)	18 (0.709)	M 6	6	7,0 (15.43)	100	250	2.500	•
010 620 001	12 (0.472)	20 (0.787)	M 6	6	7,8 (17.20)	100	250	2.500	•
010 855 001	14 (0.551)	15 (0.591)	M 8	8	7,3 (16.10)	100	250	2.500	•
010 858 001	14 (0.551)	18 (0.709)	M 8	8	8,7 (19.18)	100	250	2.500	•
010 870 001	14 (0.551)	30 (1.181)	M 8	8	15,0 (33.07)	100	—	1.000	•
010 830 001	16 (0.630)	30 (1.181)	M 8	8	25,9 (57.10)	100	—	1.000	•
010 120 001	18,5 (0.728)	20 (0.787)	M 10	10	19,2 (42.33)	100	—	1.000	•
010 130 001	18,5 (0.728)	30 (1.181)	M 10	10	29,2 (64.37)	100	—	500	•

Please note:
 For pre-drill guidelines
 refer to page 52/53

S'il vous plaît noter:
 Pour le pré-perçage
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 réfèrent à la page 52/53



RAMPA Inserts Type SKL
with hex socket drive and
threaded blind hole. Slim
flanks and the unthreaded lead
support easy assembly.

Inserts RAMPA modèle SKL
A six pans creux avec filetage
intérieur borgne. La paroi
mince et l'embout facilitent le
montage.

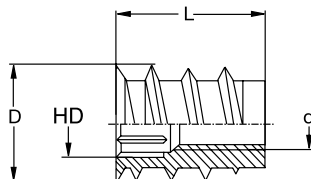
SKL

metric

Code	D mm (inch)	L mm (inch)	d thread size	HD	L1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit large	Steel zinc plated
011 640 001	12 (0.472)	40 (1.575)	M 6	6	20 (0.787)	18,3 (40.35)	100	1.000	•
011 850 001	16 (0.630)	50 (1.969)	M 8	8	22 (0.866)	42,0 (92.60)	50	500	•
011 860 001	16 (0.630)	60 (2.362)	M 8	8	22 (0.866)	51,5 (113.54)	50	250	•
011 870 001	16 (0.630)	70 (2.756)	M 8	8	22 (0.866)	62,2 (137.13)	50	250	•
011 160 001	18,5 (0.728)	60 (2.362)	M 10	10	21 (0.827)	74,7 (164.69)	50	250	•
011 170 001	18,5 (0.728)	70 (2.756)	M 10	10	21 (0.827)	88,6 (195.33)	50	250	•
011 280 001	22 (0.866)	80 (3.150)	M 12	12	25 (0.984)	145,0 (319.67)	25	100	•
011 210 001	22 (0.866)	100 (3.937)	M 12	12	25 (0.984)	190,0 (418.88)	25	100	•
011 681 001	25 (0.984)	80 (3.150)	M 16	14	25 (0.984)	183,0 (403.45)	25	100	•
011 601 001	25 (0.984)	100 (3.937)	M 16	14	25 (0.984)	240,0 (529.11)	25	100	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
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réfèrent à la page 52/53



RAMPA Inserts Type SKD
 with hex drive, sealing collar
 and unthreaded lead.

Inserts RAMPA modèle SKD

A six pans creux, tête
 chanfreinée et un embout au
 début du filetage extérieur
 pour faciliter le montage.

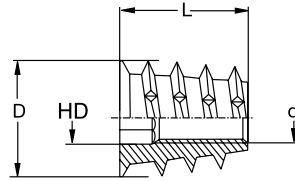
SKD

UNC/metric

Code	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
440 408 101	8 (0.315)	8 (0.315)	8-32 UNC	4	1,4 (3.09)	100	2.000	10.000	•
440 512 101	10 (0.394)	12 (0.472)	10-24 UNC	5	2,8 (6.17)	100	500	5.000	•
440 612 101	12 (0.472)	12 (0.472)	1/4"-20 UNC	6	4,8 (10.58)	100	500	5.000	•
440 615 101	12 (0.472)	15 (0.591)	1/4"-20 UNC	6	6,0 (13.23)	100	500	5.000	•
440 855 101	14 (0.551)	15 (0.591)	5/16"-18 UNC	8	7,3 (16.10)	100	250	2.500	•
440 120 101	18,5 (0.728)	20 (0.787)	3/8"-16 UNC	10	19,2 (42.34)	100	—	1.000	•
440 408 001	8 (0.315)	8 (0.315)	M 4	4	1,4 (3.09)	100	2.000	10.000	•
440 512 001	10 (0.394)	12 (0.472)	M 5	5	2,8 (6.17)	100	500	5.000	•
440 612 001	12 (0.472)	12 (0.472)	M 6	6	4,8 (10.58)	100	500	5.000	•
440 615 001	12 (0.472)	15 (0.591)	M 6	6	6,0 (13.23)	100	500	5.000	•
440 618 001	12 (0.472)	18 (0.709)	M 6	6	7,0 (15.43)	100	—	1.000	•
440 855 001	14 (0.551)	15 (0.591)	M 8	8	7,3 (16.10)	100	250	2.500	•
440 120 001	18,5 (0.728)	20 (0.787)	M 10	10	19,2 (42.34)	100	—	1.000	•

Please note:
 For pre-drill guidelines
 refer to page 52/53

S'il vous plaît noter:
 Pour le pré-perçage
 lignes directrices se
 réfèrent à la page 52/53



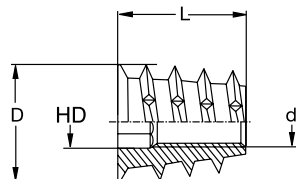
RAMPA Inserts Type SKDZ
die cast, with hex drive, conical
outside thread, collar and
unthreaded lead.

Inserts RAMPA modèle SKDZ
Zinc moulé sous pression à six
pans creux, filetage extérieur
conique, tête chanfreinée et un
embout non-fileté au début du
filetage.

SKDZ

UNC

Code	D mm (inch)	L mm (inch)	d thread size	HD	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated	Die Cast zinc plated
441 410 191	8,5 (0.335)	10 (0.394)	8-32 UNC	4	6,1 – 7,0 (0.240 – 0.276)	1,1 (2.43)	100	5.000		•
441 513 191	11,5 (0.453)	13 (0.512)	10-24 UNC	5	8,0 – 8,5 (0.315 – 0.335)	2,3 (5.07)	100	5.000		•
441 520 191	11,3 (0.445)	20 (0.787)	10-24 UNC	5	8,0 – 8,5 (0.315 – 0.335)	3,8 (8.38)	100	5.000		•
441 613 191	12,5 (0.492)	13 (0.512)	1/4"-20 UNC	6	8,8 – 9,5 (0.346 – 0.374)	3,1 (6.83)	100	5.000		•
441 620 191	12,2 (0.480)	20 (0.787)	1/4"-20 UNC	6	8,8 – 9,5 (0.346 – 0.374)	4,5 (9.92)	100	5.000		•
441 625 191	12,5 (0.492)	25 (0.984)	1/4"-20 UNC	6	8,8 – 9,5 (0.346 – 0.374)	5,6 (12.35)	100	2.500		•
441 813 191	14,5 (0.571)	13 (0.512)	5/16"-18 UNC	8	10,7 – 11,5 (0.423 – 0.453)	4,3 (9.48)	100	5.000		•
441 113 191	16,0 (0.630)	13 (0.512)	3/8"-16 UNC	10	13,0 – 13,5 (0.512 – 0.531)	5,3 (11.68)	100	2.500		•



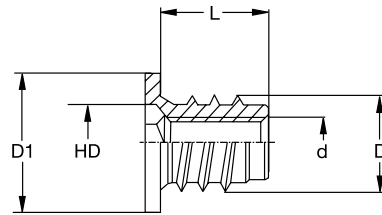
RAMPA Inserts Type SKDZ
 die cast, with hex drive, conical
 outside thread, collar and
 unthreaded lead.

Inserts RAMPA modèle SKDZ
 Zinc moulé sous pression à six
 pans creux, filetage extérieur
 conique, tête chanfreinée et un
 embout non-fileté au début du
 filetage.

SKDZ

metric

Code	D mm (inch)	L mm (inch)	d thread size	HD	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated	Die Cast zinc plated
441 410 092	8,5 (0.335)	10 (0.394)	M 4	4	6,1 – 7,0 (0.240 – 0.276)	1,1 (2.43)	100	5.000	•	
441 510 092	11,5 (0.453)	10 (0.394)	M 5	5	8,0 – 8,5 (0.315 – 0.335)	1,9 (4.19)	100	8.000	•	
441 513 092	11,5 (0.453)	13 (0.512)	M 5	5	8,0 – 8,5 (0.315 – 0.335)	2,3 (5.07)	100	6.000	•	
441 520 092	11,5 (0.453)	20 (0.787)	M 5	5	8,0 – 8,5 (0.315 – 0.335)	3,8 (8.38)	100	3.000	•	
441 610 092	12,2 (0.480)	10 (0.394)	M 6	6	8,8 – 9,5 (0.346 – 0.374)	2,5 (5.51)	100	5.000	•	
441 613 092	12,5 (0.492)	13 (0.512)	M 6	6	8,8 – 9,5 (0.346 – 0.374)	3,1 (6.83)	100	5.000	•	
441 616 092	12,3 (0.484)	16 (0.630)	M 6	6	8,8 – 9,5 (0.346 – 0.374)	3,7 (8.16)	100	5.000	•	
441 620 092	12,5 (0.492)	20 (0.787)	M 6	6	8,8 – 9,5 (0.346 – 0.374)	4,5 (9.92)	100	5.000	•	
441 625 092	12,5 (0.492)	25 (0.984)	M 6	6	8,8 – 9,5 (0.346 – 0.374)	5,6 (12.35)	100	2.000	•	
441 813 092	14,5 (0.571)	13 (0.512)	M 8	8	10,7 – 11,5 (0.423 – 0.453)	4,3 (9.48)	100	3.000	•	
441 818 092	14,5 (0.571)	18 (0.709)	M 8	8	10,7 – 11,5 (0.423 – 0.453)	6,0 (13.23)	100	2.000	•	
441 113 092	16,0 (0.630)	13 (0.512)	M 10	10	12,2 – 12,5 (0.480 – 0.492)	5,3 (11.68)	100	2.500	•	
441 125 092	16,0 (0.630)	25 (0.984)	M 10	10	13,0 – 13,5 (0.512 – 0.531)	8,6 (18.96)	100	2.000	•	



RAMPA Inserts Type SKDL
with hex drive and a sealing collar, left-hand outside thread and right-hand internal thread.

Inserts RAMPA modèle SKDL
A six pans creux, tête chanfreinée, filetage extérieur gauche et filetage intérieur droite.

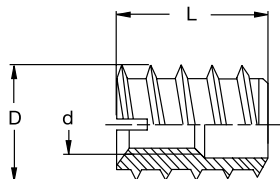
SKDL

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	HD	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit large	Steel zinc plated
443 616 001	15 (0.591)	10 (0.394)	16 (0.630)	M 6	6	8,0 – 8,5 (0.315 – 0.335)	5,2 (11.46)	100	5.000	•
443 817 001	22 (0.866)	15,3 (0.602)	17 (0.669)	M 8	10	12,5 – 13,5 (0.492 – 0.531)	15,6 (34.39)	100	1.000	•
443 117 001	22 (0.866)	15,3 (0.602)	17 (0.669)	M 10	10	12,5 – 13,5 (0.492 – 0.531)	12,3 (27.12)	100	2.000	•

Please note:
Outside thread is left-handed

Attention:
filetage extérieur gauche



RAMPA Inserts Type A
similar to DIN 7965,
slotted and with recess
accommodation for excess
wood shavings, suitable for
easy automatic insertion.

Inserts RAMPA modèle A
similaire DIN 7965, fendus
avec réservoir pour les
copeaux. Approprié pour un
montage automatique.

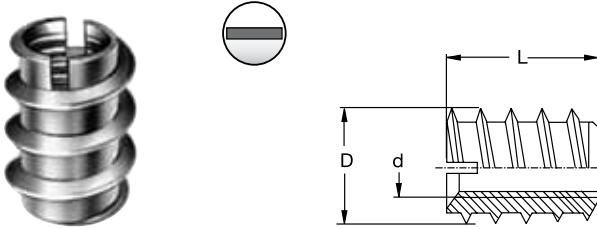
A

metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
001 308 001	6 (0.236)	8 (0.315)	M 3	0,6 (1.32)	100	2.500	10.000	•
001 410 001	8 (0.315)	10 (0.394)	M 4	1,2 (2.65)	100	2.000	10.000	•
001 412 001	8 (0.315)	12 (0.472)	M 4	1,5 (3.31)	100	1.000	10.000	•
001 515 001	10 (0.394)	15 (0.591)	M 5	2,8 (6.17)	100	500	5.000	•
001 615 001	12 (0.472)	15 (0.591)	M 6	5,1 (11.24)	100	500	5.000	•
001 630 001	12 (0.472)	30 (1.181)	M 8	7,3 (16.10)	100	250	2.500	•
001 855 001	14 (0.551)	15 (0.591)	M 8	6,3 (13.89)	100	250	2.500	•
001 858 001	14 (0.551)	18 (0.709)	M 8	7,6 (16.76)	100	250	2.500	•
001 830 001	16 (0.630)	30 (1.181)	M 8	14,0 (30.87)	100	—	1.000	•
001 130 001	18,5 (0.728)	30 (1.181)	M 10	20,3 (44.75)	100	—	1.000	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



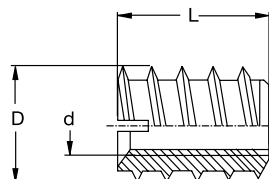
RAMPA Inserts Type B
similar to DIN 7965, slotted
and with full internal thread,
for easy automatic insertion.

Inserts RAMPA modèle B
similaire DIN 7965, fendus
avec filetage sur toute la
longueur. Approprié pour un
montage automatique.

B UNC								
Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit medium	Packing unit medium	Packing unit large	Steel zinc plated
002 308 101	8 (0.315)	8 (0.315)	6-32 UNC	1,2 (2.65)	100	1.000	10.000	•
002 408 101	8 (0.315)	8 (0.315)	8-32 UNC	1,2 (2.65)	100	2.000	10.000	•
002 410 101	8 (0.315)	10 (0.394)	8-32 UNC	1,5 (3.31)	100	2.000	10.000	•
002 428 101	6,5 (0.256)	8 (0.315)	8-32 UNC	0,6 (1.32)	100	1.000	10.000	•
002 512 101	10 (0.394)	12 (0.472)	10-24 UNC	3,0 (6.61)	100	1.000	5.000	•
002 610 101	12 (0.472)	10 (0.394)	1/4"-20 UNC	3,7 (8.16)	100	500	5.000	•
002 612 101	12 (0.472)	12 (0.472)	1/4"-20 UNC	4,5 (9.92)	100	500	5.000	•
002 615 101	12 (0.472)	15 (0.591)	1/4"-20 UNC	5,2 (11.46)	100	500	3.000	•
002 620 101	12 (0.472)	20 (0.787)	1/4"-20 UNC	6,8 (14.99)	100	400	2.500	•
002 623 101	12 (0.472)	22,9 (0.902)	1/4"-20 UNC	8,0 (17.64)	100	250	2.500	•
002 852 101	14 (0.551)	12 (0.472)	5/16"-18 UNC	5,6 (12.35)	100	500	3.000	•
002 855 101	14 (0.551)	15 (0.591)	5/16"-18 UNC	7,1 (15.65)	100	250	2.500	•
002 858 101	14 (0.551)	18 (0.709)	5/16"-18 UNC	8,0 (17.64)	100	250	2.500	•
002 118 101	18,5 (0.728)	18 (0.709)	3/8"-16 UNC	15,3 (33.73)	100	200	1.000	•
002 125 101	18,5 (0.728)	25 (0.984)	3/8"-16 UNC	22,0 (48.50)	100	—	800	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type B
similar to DIN 7965, slotted
and with full internal thread,
for easy automatic insertion.

Inserts RAMPA modèle B
similaire DIN 7965, fendus
avec filetage sur toute la
longueur. Approprié pour un
montage automatique.

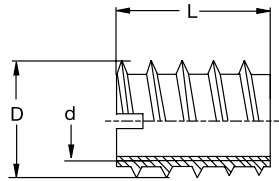
B

metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
002 408 001	8 (0.315)	8 (0.315)	M 4	1,2 (2.65)	100	2.500	10.000	•
002 512 001	10 (0.394)	12 (0.472)	M 5	3,0 (6.61)	100	1.000	5.000	•
002 610 001	12 (0.472)	10 (0.394)	M 6	4,0 (8.82)	100	500	5.000	•
002 612 001	12 (0.472)	12 (0.472)	M 6	4,6 (10.14)	100	500	5.000	•
002 615 001	12 (0.472)	15 (0.591)	M 6	5,6 (12.35)	100	500	5.000	•
002 855 001	14 (0.551)	15 (0.591)	M 8	7,1 (15.65)	100	250	2.500	•
002 858 001	14 (0.551)	18 (0.709)	M 8	8,0 (17.64)	100	250	2.500	•
002 818 001	16 (0.630)	18 (0.709)	M 8	9,2 (20.28)	100	250	2.500	•
002 115 001	18,5 (0.728)	15 (0.591)	M 10	12,8 (28.22)	100	200	2.000	•
002 120 001	18,5 (0.728)	20 (0.787)	M 10	17,0 (37.48)	100	—	1.000	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type C
slotted and thin-walled.

Inserts RAMPA modèle C
Fendus et à paroi mince.

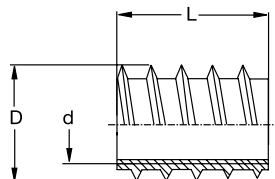
C

UNC/metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
005 612 101	10 (0.394)	12 (0.472)	1/4"-20 UNC	2,3 (5.07)	100	1.000	10.000	•
005 615 101	10 (0.394)	15 (0.591)	1/4"-20 UNC	2,9 (6.39)	100	500	5.000	•
005 620 101	10 (0.394)	20 (0.787)	1/4"-20 UNC	3,9 (8.60)	100	500	5.000	•
005 812 101	12 (0.472)	12 (0.472)	5/16"-18 UNC	3,3 (7.28)	100	500	5.000	•
005 620 001	10 (0.394)	20 (0.787)	M 6	3,9 (8.60)	100	500	5.000	•
005 812 001	12 (0.472)	12 (0.472)	M 8	3,3 (7.28)	100	500	5.000	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type CV
without slot, comply with
Type C.

Inserts RAMPA modèle CV
Sans fente, les dimensions
suivent celles du modèle C.

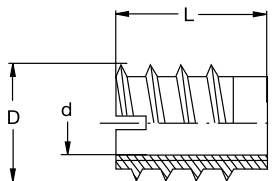
CV

UNC/metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
006 612 101	10 (0.394)	12 (0.472)	1/4"-20 UNC	2,3 (5.07)	100	1.000	5.000	•
006 612 001	10 (0.394)	12 (0.472)	M 6	2,3 (5.07)	100	1.000	5.000	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type CA
are identical with Type C
but with an unthreaded lead.

Inserts RAMPA modèle CA
Correspond à Inserts RAMPA
modèle Type C mais avec un
embout au début du filetage
extérieur pour faciliter le
montage.

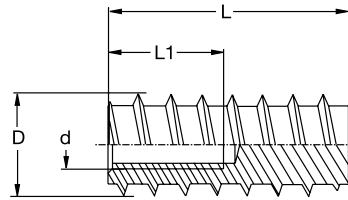
CA

UNC/metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
005 818 101	12 (0.472)	18 (0.709)	5/16"-18 UNC	4,7 (10.36)	100	500	3.000	•
005 815 001	12 (0.472)	15 (0.591)	M 8	4,0 (8.82)	100	500	5.000	•
005 818 001	12 (0.472)	18 (0.709)	M 8	4,7 (10.36)	100	250	2.500	•
005 820 001	12 (0.472)	20 (0.787)	M 8	5,1 (11.24)	100	250	2.500	•
005 825 001	12 (0.472)	25 (0.984)	M 8	10,4 (22.93)	100	250	2.500	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type BL
without slot, with threaded
blind hole suitable for heavy
duty applications due to its
length. Assembling: see
RAMPA Driver Type 515
(page 47).

Inserts RAMPA modèle BL
Sans fente avec filetage
intérieur borgne approprié pour
des charges importantes grâce
à sa longueur. Montage: voir
l'outil de montage modèle 515
à la page 47.

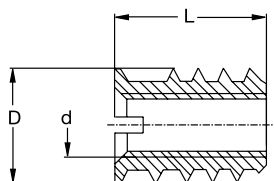
BL

metric

Code	D mm (inch)	L mm (inch)	d thread size	L1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit large	Steel zinc plated
004 530 001	10 (0.394)	30 (1.181)	M 5	15 (0.591)	9,2 (20.28)	100	2.500	•
004 640 001	12 (0.472)	40 (1.575)	M 6	15 (0.591)	18,3 (40.35)	100	1.000	•
004 660 001	12 (0.472)	60 (2.362)	M 6	15 (0.591)	29,5 (65.04)	100	500	•
004 680 001	12 (0.472)	80 (3.150)	M 6	15 (0.591)	42,0 (92.59)	50	500	•
004 860 001	16 (0.630)	60 (2.362)	M 8	18 (0.709)	51,5 (113.54)	50	250	•
004 870 001	16 (0.630)	70 (2.756)	M 8	18 (0.709)	62,2 (137.13)	50	250	•
004 880 001	16 (0.630)	80 (3.150)	M 8	18 (0.709)	72,9 (160.72)	50	250	•
004 800 001	16 (0.630)	100 (3.937)	M 8	18 (0.709)	93,3 (205.69)	50	250	•
004 170 001	18,5 (0.728)	70 (2.756)	M 10	20 (0.787)	86,5 (190.70)	50	250	•
004 180 001	18,5 (0.728)	80 (3.150)	M 10	20 (0.787)	101,5 (223.77)	50	250	•
004 100 001	18,5 (0.728)	100 (3.937)	M 10	20 (0.787)	116,5 (256.84)	25	100	•
004 280 001	22 (0.866)	80 (3.150)	M 12	24 (0.945)	145,0 (319.67)	25	100	•
004 210 001	22 (0.866)	100 (3.937)	M 12	24 (0.945)	190,0 (418.88)	25	100	•
004 681 001	25 (0.984)	80 (3.150)	M 16	24 (0.945)	183,0 (403.45)	25	100	•
004 601 001	25 (0.984)	100 (3.937)	M 16	24 (0.945)	240,0 (529.11)	20	100	•

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type D
with sealing collar on the
slotted end.

Inserts RAMPA modèle D
Fendus avec tête chanfreinée
du côté de la fente.

D

metric

Code	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Brass plain
007 408 01	8 (0.315)	8 (0.315)	M 4	1,6 (3.53)	100	2.500	10.000	•
007 506 01*	10 (0.394)	6 (0.236)	M 5	2,3 (5.07)	100	1.000	10.000	•
007 508 01*	10 (0.394)	8 (0.315)	M 5	2,7 (5.95)	100	1.000	10.000	•
007 512 01	10 (0.394)	12 (0.472)	M 5	3,9 (8.60)	100	1.000	10.000	•
007 606 01*	12 (0.472)	6 (0.236)	M 6	2,9 (6.39)	100	500	5.000	•
007 608 01*	12 (0.472)	8 (0.315)	M 6	3,9 (8.60)	100	500	5.000	•
007 613 01	12 (0.472)	13 (0.512)	M 6	6,3 (13.89)	100	500	5.000	•
007 855 01	14 (0.551)	15 (0.591)	M 8	9,6 (21.16)	100	250	2.500	•

***Please note:**

Type D non-slotted

*** S'il vous plaît noter:**

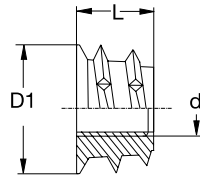
type D non fendue

Please note:

For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:

Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type DVZ
die cast, short version for
thin walled shaped wood with
internal thread stop only for
soft wood.

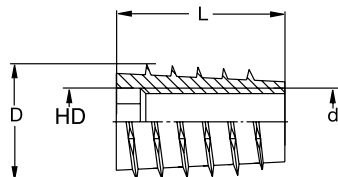
Inserts RAMPA modèle DVZ

Zinc, moulé sous pression,
version courte pour des
applications à faible paroi
avec un arrêt dans le
filetage d'intérieur. Attention:
seulement pour bois doux.

DVZ

metric

Code	D1 mm (inch)	L mm (inch)	d thread size	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated	Die Cast zinc plated	 Tooling Recommendation: RAMPA Driver 515 503 (M5) and 515 603 (M6) see page 47 Recommandation l'outil de montage: voir à la page 47 RAMPA modèle 515503 (M5) et 515603 (M6)
445 507 091	16 (0.630)	7 (0.276)	M 5	11,0 – 11,5 (0.433 – 0.453)	4,1 (9.04)	100	5.000		•	
445 607 092	16 (0.630)	7 (0.276)	M 6	11,0 – 11,5 (0.433 – 0.453)	4,0 (8.82)	100	5.000	•		



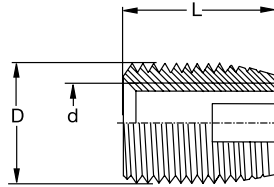
RAMPA Inserts Type SKZ
die cast, with hex drive and
unthreaded lead on the conical
external thread.

Inserts RAMPA modèle SKZ
Zinc moulé sous pression à six
pans creux et embout conique
non fileté pour faciliter le
montage.

SKZ

UNC/metric

Code	D mm (inch)	L mm (inch)	d thread size	HD	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated	Die Cast zinc plated
410 410 191	7,5 (0.295)	10 (0.394)	8-32 UNC	4	6,0 – 6,5 (0.236 – 0.256)	0,9 (1.98)	100	5.000		•
410 513 191	11 (0.433)	13 (0.512)	10-24 UNC	5	8,3 – 9,0 (0.327 – 0.354)	2,2 (4.85)	100	5.000		•
410 613 191	11,5 (0.453)	13 (0.512)	1/4"-20 UNC	6	9,0 – 9,5 (0.354 – 0.374)	2,9 (6.39)	100	5.000		•
410 620 191	11,7 (0.461)	20 (0.787)	1/4"-20 UNC	6	9,0 – 9,5 (0.354 – 0.374)	4,0 (8.82)	100	5.000		•
410 813 191	14 (0.551)	13 (0.512)	5/16"-18 UNC	8	11,3 – 11,5 (0.445 – 0.453)	4,1 (9.04)	100	5.000		•
410 820 191	14 (0.551)	20 (0.787)	5/16"-18 UNC	8	11,3 – 11,5 (0.445 – 0.453)	6,6 (14.55)	100	2.500		•
410 410 092	7,5 (0.295)	10 (0.394)	M 4	4	6,0 – 6,5 (0.236 – 0.256)	0,9 (1.98)	100	5.000	•	
410 513 092	11 (0.433)	13 (0.512)	M 5	5	8,3 – 9,0 (0.327 – 0.354)	2,2 (4.85)	100	5.000	•	
410 613 092	11,5 (0.453)	13 (0.512)	M 6	6	9,0 – 9,5 (0.354 – 0.374)	2,9 (6.39)	100	5.000	•	
410 620 092	11,5 (0.453)	20 (0.787)	M 6	6	9,0 – 9,5 (0.354 – 0.374)	4,0 (8.82)	100	3.000	•	
410 813 092	14 (0.551)	13 (0.512)	M 8	8	11,3 – 11,5 (0.445 – 0.453)	4,1 (9.04)	100	5.000	•	
410 820 092	14 (0.551)	20 (0.787)	M 8	8	11,3 – 11,5 (0.445 – 0.453)	6,6 (14.55)	100	2.500	•	
410 825 092	14 (0.551)	25 (0.984)	M 8	8	11,3 – 11,5 (0.445 – 0.453)	7,6 (16.76)	100	2.500	•	



RAMPA Inserts Type ES

a conical lead with a wide cutting slot on the metric external thread for application in harder materials.

Inserts RAMPA modèle ES
Douille fileté autotaraudeuse fendue.

ES

UNC/metric

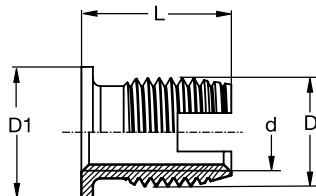
Code	D thread size outside	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel hard zinc plated
009 408 161	6,5 x 0,75	8 (0.315)	8-32 UNC	0,9 (1.98)	100	2.500	12.000	•
009 510 161	8 x 1	10 (0.394)	10-24 UNC	1,9 (4.19)	100	1.000	10.000	•
009 612 161	9 x 1	12 (0.472)	1/4"-20 UNC	2,3 (5.07)	100	1.000	10.000	•
009 614 161	10 x 1,5	14 (0.551)	1/4"-20 UNC	3,6 (7.94)	100	500	5.000	•
009 815 161	12 x 1,5	15 (0.591)	5/16"-18 UNC	5,1 (11.24)	100	500	5.000	•
009 408 061	6,5 x 0,75	15 (0.591)	M 4	8 (0.315)	100	2.500	12.000	•
009 510 061	8 x 1	18 (0.709)	M 5	10 (0.394)	100	1.000	10.000	•
009 612 061	9 x 1	18 (0.709)	M 6	12 (0.472)	100	1.000	10.000	•
009 614 061	10 x 1,5	15 (0.591)	M 6	14 (0.551)	100	500	5.000	•
009 815 061	12 x 1,5	20 (0.787)	M 8	15 (0.591)	100	500	5.000	•

Please note:
RoHS compliant

S'il vous plaît noter:
RoHS conformes

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type ESD
selfcutting insert with head
for low material friction
requirements.

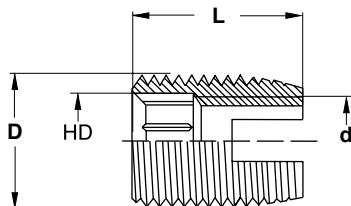
Inserts RAMPA modèle ESD
Douille filetée autotaraudeuse
fendue, tête chanfreinée,
pour une faible contrainte de
montage dans des matériaux
durs.

ESD

metric

Code	D1 mm (inch)	D thread size outside	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel special hard zinc plated
032 409 062	9 (0.354)	6,5 x 0,75	9 (0.354)	M 4	2,5 (5.51)	100	1.000	10.000	•
032 511 062	11 (0.433)	8 x 1	11 (0.433)	M 5	4,8 (10.58)	100	500	5.000	•
032 616 062	13 (0.512)	10 x 1,5	15,5 (0.610)	M 6	8,5 (18.74)	100	250	2.500	•
032 817 062	15 (0.591)	12 x 1,5	16,5 (0.649)	M 8	13,0 (28.66)	100	—	1.000	•
032 120 062	17 (0.669)	14 x 1,5	19,5 (0.768)	M 10	20,0 (44.09)	100	—	1.000	•

Please note:
RoHS compliant
S'il vous plaît noter:
RoHS conformes



RAMPA Inserts Type ESK
self cutting insert to use in
extremely hard material with
hex drive.

Inserts RAMPA modèle ESK
Douille filetée autotaraudeuse
fendue, à six pans creux.

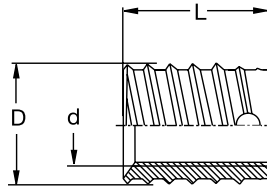
ESK

metric

Code	D thread size outside	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel hard zinc plated
019 410 061	8 x 1	10 (0.394)	M 4	4	1,9 (4.19)	100	1.000	10.000	•
019 514 061	10 x 1,5	14 (0.551)	M 5	5	3,6 (7.94)	100	500	5.000	•
019 615 061	12 x 1,5	15 (0.591)	M 6	6	5,1 (11.24)	100	500	5.000	•
019 818 061	14 x 1,5	18 (0.709)	M 8	8	7,4 (16.31)	100	250	2.500	•

Please note:
RoHS compliant
S'il vous plaît noter:
RoHS conformes

Please note:
For pre-drill guidelines
refer to page 52/53
S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts
Type BAN/BAV
three-hole cutting edges
at the external thread
support application in
harder materials.

Inserts RAMPA
modèle BAN/BAV
Douille fileté autotaraudeuse
avec trois trous coupants pour
des matériaux plus difficile à
usiner.

BAN/BAV

metric

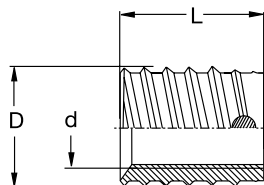
Code	Type	D thread size outside	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel hard zinc plated
013 406 061	BAV	6,5 x 0,8	6 (0.236)	M 4	0,7 (1.54)	100	2.500	10.000	•
014 408 061	BAN	6,5 x 0,8	8 (0.315)	M 4	1,0 (2.21)	100	2.500	10.000	•
013 507 061	BAV	8 x 1	7 (0.276)	M 5	1,2 (2.65)	100	2.500	10.000	•
014 510 061	BAN	8 x 1	10 (0.394)	M 5	1,9 (4.19)	100	1.000	10.000	•
013 608 061	BAV	10 x 1,25	8 (0.315)	M 6	2,3 (5.07)	100	1.000	10.000	•
014 612 061	BAN	10 x 1,25	12 (0.472)	M 6	3,8 (8.38)	100	500	5.000	•
013 809 061	BAV	12 x 1,5	9 (0.354)	M 8	3,4 (7.50)	100	500	5.000	•
014 814 061	BAN	12 x 1,5	14 (0.551)	M 8	5,5 (12.13)	100	500	5.000	•
013 100 061	BAV	14 x 1,5	10 (0.394)	M 10	4,6 (10.14)	100	500	5.000	•
014 108 061	BAN	14 x 1,5	18 (0.709)	M 10	9,6 (21.16)	100	250	2.500	•

Please note:
RoHS compliant

S'il vous plaît noter:
RoHS conformes

Please note:
For pre-drill guidelines
refer to page 52/53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 52/53



RAMPA Inserts Type BAS
self cutting insert to use in
extremely hard material, with
swarf reservoirs.

Inserts RAMPA modèle BAS
Douille fileté autotaraudeuse
avec trois trous coupants des
réservoirs de copeaux pour
des matériaux plus difficile à
usiner.

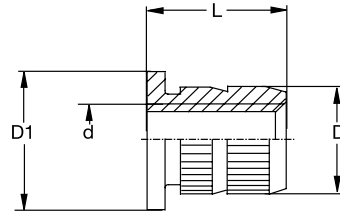
BAS

metric

Code	D thread size outside	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel hard zinc plated
016 406 061	6,5 x 0,8	6 (0.236)	M 4	0,7 (1.54)	100	2.500	10.000	•
016 408 061	6,5 x 0,8	8 (0.315)	M 4	1,0 (2.21)	100	2.500	10.000	•
016 507 061	8 x 1	7 (0.276)	M 5	1,2 (2.65)	100	2.500	10.000	•
016 510 061	8 x 1	10 (0.394)	M 5	1,9 (4.19)	100	1.000	10.000	•
016 608 061	10 x 1,25	8 (0.315)	M 6	2,3 (5.07)	100	1.000	10.000	•
016 612 061	10 x 1,25	12 (0.472)	M 6	3,8 (8.38)	100	500	5.000	•
016 809 061	12 x 1,5	9 (0.354)	M 8	3,4 (7.50)	100	500	5.000	•
016 814 061	12 x 1,5	14 (0.551)	M 8	5,5 (12.13)	100	500	5.000	•

Please note:
RoHS compliant

S'il vous plaît noter:
RoHS conformes



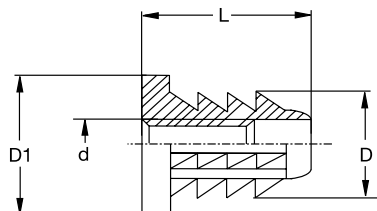
**RAMPA Knock-In Inserts
Type TS**
with collar and knurled shank.

**Inserts RAMPA modèle TS
à enfoncer**
Insert ouvert avec bord de
recouvrement et extérieur
moleté.

TS

UNC/metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
021 408 101	8 (0.315)	5,5 (0.217)	8 (0.315)	8-32 UNC	0,9 (1.98)	100	2.500	12.000	•
021 607 101	12 (0.472)	8,5 (0.335)	7,7 (0.303)	1/4"-20 UNC	3,1 (6.83)	100	1.000	10.000	•
021 612 101	12 (0.472)	8,5 (0.335)	12 (0.472)	1/4"-20 UNC	3,3 (7.28)	100	500	5.000	•
021 812 101	15 (0.591)	10,5 (0.413)	12 (0.472)	5/16"-18 UNC	4,8 (10.58)	100	500	5.000	•
021 912 101	18,5 (0.728)	12,5 (0.492)	12 (0.472)	3/8"-16 UNC	6,8 (14.99)	100	250	2.500	•
021 408 001	8 (0.315)	5,5 (0.217)	8 (0.315)	M 4	0,9 (1.98)	100	2.500	12.000	•
021 607 001	12 (0.472)	8,5 (0.335)	7,7 (0.303)	M 6	3,1 (6.83)	100	1.000	10.000	•
021 612 001	12 (0.472)	8,5 (0.335)	12 (0.472)	M 6	3,3 (7.28)	100	500	5.000	•
021 812 001	15 (0.591)	10,5 (0.413)	12 (0.472)	M 8	4,8 (10.58)	100	500	5.000	•
021 912 001	18,5 (0.728)	12,5 (0.492)	12 (0.472)	M 10	6,8 (14.99)	100	250	2.500	•



**RAMPA Knock-In Inserts
Type TSBZ**
die cast, strong prongs
prevent torsion.

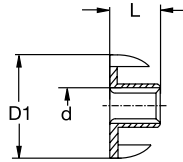
**Inserts RAMPA modèle TSBZ
à enfoncer**
Insert ouvert en zinc moulé
sous pression denté
pour s'ancrer avec bord
de recouvrement.

TSBZ

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated
451 308 092	8,5 (0.335)	6 (0.236)	8 (0.315)	M 3	4,8 – 5,2 (0.189 – 0.205)	0,7 (1.54)	100	2.500	•
451 409 092	10,5 (0.413)	8 (0.315)	9,5 (0.374)	M 4	6,3 – 6,5 (0.248 – 0.256)	1,6 (3.53)	100	1.000	•
451 512 092	10,5 (0.413)	8 (0.315)	11,5 (0.453)	M 5	8,0 – 8,5 (0.315 – 0.335)	3,1 (6.83)	100	5.000	•
451 610 092	16 (0.630)	12 (0.472)	10,5 (0.413)	M 6	9,5 – 10,0 (0.374 – 0.394)	4,2 (9.26)	100	5.000	•
451 615 092	14,5 (0.571)	12 (0.472)	15,5 (0.610)	M 6	9,5 – 10,0 (0.374 – 0.394)	5,2 (11.46)	100	5.000	•
451 815 092*	19 (0.748)	13 (0.512)	15,5 (0.610)	M 8	10,3 – 11,0 (0.406 – 0.433)	5,9 (13.01)	100	2.500	•

Please note:
with conical head
S'il vous plaît noter:
avec une réduction
sous la tête



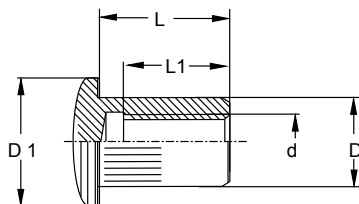
**RAMPA Knock-In Inserts
Type TSZ**
four strong prongs prevent
torsion.

**Inserts RAMPA modèle TSZ
à enfoncer**
Quatre pointes fortes prévient
torsion.

TSZ

metric

Code	D1 mm (inch)	L mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
450 305 001	13 (0.512)	5 (0.197)	M 3	1,0 (2.21)	100	2.000	•
450 408 001	15 (0.591)	8 (0.315)	M 4	1,7 (3.75)	100	1.000	•
450 508 001	17 (0.669)	8 (0.315)	M 5	3,1 (6.83)	100	5.000	•
450 512 001	17 (0.669)	12 (0.472)	M 5	3,5 (7.72)	100	5.000	•
450 609 001	19 (0.748)	9 (0.354)	M 6	3,5 (7.72)	100	5.000	•
450 614 001	19 (0.748)	14 (0.551)	M 6	3,9 (8.60)	100	4.000	•
450 618 001	19 (0.748)	18 (0.709)	M 6	5,3 (11.69)	100	2.500	•
450 809 001	22 (0.866)	9 (0.354)	M 8	6,4 (14.11)	100	2.500	•
450 815 001	22 (0.866)	15 (0.591)	M 8	7,0 (15.43)	100	2.500	•
450 817 001	22 (0.866)	17 (0.669)	M 8	8,4 (18.52)	100	2.500	•
450 112 001	25 (0.984)	12 (0.472)	M 10	9,4 (20.72)	100	2.000	•
450 116 001	25 (0.984)	16 (0.630)	M 10	9,8 (21.61)	100	2.000	•
450 214 001	27 (1.063)	14,5 (0.571)	M 12	12,0 (26.46)	100	1.500	•



RAMPA Knock-In Inserts

Type TSLT

allows visible assembly since the decorative mushroom head is without drive. Threaded blind hole, the knurled shank prevents torsion.

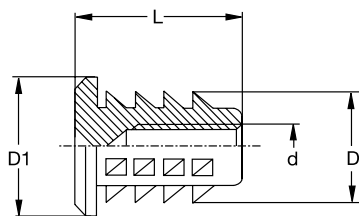
Inserts RAMPA modèle TSLT à enfoncer

Permettent un montage visible. La géométrie extérieure moletée prévient la torsion de l'insert borgne.

TSLT

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	L1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
457 615 001	16 (0.630)	8 (0.315)	15 (0.591)	M 6	13 (0.512)	6,5 (14.33)	100	2.500	•



RAMPA Knock-In Inserts

Type TSLZ

die cast with decorative head and threaded blind hole.

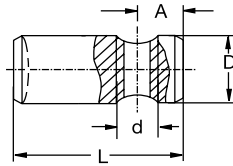
Inserts RAMPA modèle TSLZ à enfoncer

Insert borgne en zinc moulé sous pression avec bord de recouvrement décoratif.

TSLZ

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	Pilot hole Ø mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast yellow zinc plated	Die Cast nickel plated
452 412 093	11 (0.433)	8 (0.315)	12,5 (0.492)	M 4	6,3 – 6,5 (0.248 – 0.256)	2,2 (4.85)	100	1.000		•
452 613 093	17 (0.669)	11 (0.433)	13,5 (0.532)	M 6	8,8 – 9,5 (0.346 – 0.374)	5,2 (11.46)	100	5.000		•
452 620 093	17 (0.669)	11 (0.433)	20 (0.787)	M 6	8,8 – 9,5 (0.346 – 0.374)	6,6 (14.55)	100	2.500		•
452 817 092	17 (0.669)	12,6 (0.496)	17,5 (0.689)	M 8	10,0 – 10,5 (0.394 – 0.413)	6,4 (14.11)	100	2.500	•	



RAMPA Cross Dowels

Type Q

slotted, used e.g. for right angle connections, with high retention values, even in chipboard.

Boulon à écrou transversale

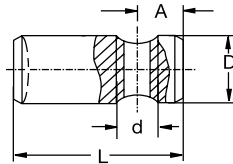
RAMPA modèle Q

Avec fente pour positionner l'axe du filetage. Résiste aux charges importantes, mêmes dans des matériaux tendres.

Q

UNC

Code	D1 mm (inch)	L mm (inch)	A mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit medium	Packing unit large	Steel zinc plated
020 512 101	10 (0.394)	12 (0.472)	6 (0.236)	10-24 UNC	4,9 (10.80)	100	500	3.000	•
020 612 101	10 (0.394)	12 (0.472)	6 (0.236)	1/4"-20 UNC	4,9 (10.80)	100	500	4.000	•
020 616 101	10 (0.394)	16 (0.630)	6 (0.236)	1/4"-20 UNC	7,4 (16.31)	100	500	3.000	•
020 620 101	10 (0.394)	20 (0.787)	10 (0.394)	1/4"-20 UNC	9,6 (21.16)	100	500	2.000	•
020 625 101	10 (0.394)	25 (0.984)	12,5 (0.492)	1/4"-20 UNC	12,6 (27.78)	100	250	1.500	•
020 630 101	10 (0.394)	30 (1.181)	15 (0.591)	1/4"-20 UNC	15,6 (34.39)	100	250	1.000	•
020 631 101	10 (0.394)	30 (1.181)	10 (0.394)	1/4"-20 UNC	15,6 (34.39)	100	250	1.000	•
020 820 101	12 (0.472)	20 (0.787)	10 (0.394)	5/16"-18 UNC	13,0 (28.66)	100	250	2.000	•
020 830 101	12 (0.472)	30 (1.181)	15 (0.591)	5/16"-18 UNC	21,9 (48.28)	100	200	1.000	•



RAMPA Cross Dowels Type Q

slotted, used e.g. for right angle connections, with high retention values, even in chipboard.

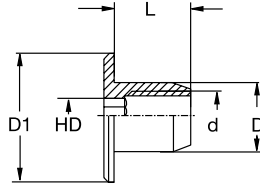
Boulon à écrou transversale RAMPA modèle Q

Avec fente pour positionner l'axe du filetage. Résiste aux charges importantes, mêmes dans des matériaux tendres.

Q

metric

Code	D mm (inch)	L mm (inch)	A mm (inch)	d thread size	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit small	Packing unit large	Steel zinc plated
020 502 001	12 (0.472)	12 (0.472)	6 (0.236)	M 5	4,0 (8.82)	100	500	5.000	•
020 612 001	12 (0.472)	12 (0.472)	6 (0.236)	M 6	4,9 (10.80)	100	500	5.000	•
020 616 001	16 (0.630)	16 (0.630)	6 (0.236)	M 6	7,4 (16.31)	100	500	2.500	•
020 620 001	20 (0.787)	20 (0.787)	10 (0.394)	M 6	9,6 (21.16)	100	500	2.500	•
020 625 001	25 (0.984)	25 (0.984)	12,5 (0.492)	M 6	12,6 (27.78)	100	250	2.000	•
020 630 001	30 (1.181)	30 (1.181)	15 (0.591)	M 6	15,6 (34.39)	100	250	1.000	•
020 631 001	30 (1.181)	30 (1.181)	10 (0.394)	M 6	15,6 (34.39)	100	250	1.000	•
020 820 001	20 (0.787)	20 (0.787)	10 (0.394)	M 8	13,0 (28.66)	100	250	2.000	•
020 830 001	30 (1.181)	30 (1.181)	15 (0.591)	M 8	21,9 (48.28)	100	200	1.000	•



RAMPA Cap Nuts Type RF
with hex drive, through hole
and flat head, decorative for
visible joints.

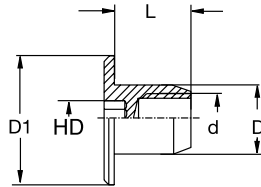
**Ecrou douille RAMPA
modèle RF**

Ecrou ouvert avec bord de
recrouvement plate et décoratif
à six pans creux.

RF

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Brass nickel plated
025 613 013	13 (0.512)	8 (0.315)	9 (0.354)	M 6	5	3,5 (7.72)	100	5.000	•
025 615 013	15 (0.591)	9 (0.354)	10 (0.394)	M 6	5	5,3 (11.69)	100	5.000	•
025 620 013	20 (0.787)	9 (0.354)	10 (0.394)	M 6	5	8,8 (19.40)	100	2.500	•
025 621 013	20 (0.787)	9 (0.354)	15 (0.591)	M 6	5	9,7 (21.39)	100	2.500	•
025 817 013	17 (0.669)	10 (0.394)	11,5 (0.453)	M 8	5	7,1 (15.65)	100	2.500	•
025 820 013	20 (0.787)	10 (0.394)	10 (0.394)	M 8	5	8,4 (18.52)	100	2.500	•
025 825 013	25 (0.984)	14 (0.551)	10 (0.394)	M 8	5	16,0 (35.27)	100	1.000	•
025 827 013	25 (0.984)	10 (0.394)	20 (0.787)	M 8	5	14,0 (30.87)	100	1.000	•
025 830 013	30 (1.181)	14 (0.551)	18 (0.709)	M 8	5	29,0 (63.93)	100	1.000	•
025 130 013	30 (1.181)	14 (0.551)	18 (0.709)	M 10	5	25,0 (55.12)	100	500	•



RAMPA Cap Nuts

Type RFL

with hex drive, threaded blind hole and flat head, decorative for visible joints.

Ecrou douille RAMPA

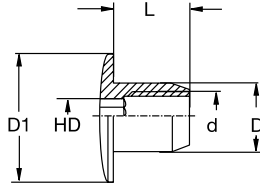
modèle RFL

Ecrou borgne avec bord de recouvrement plate et décoratif à six pans creux.

RFL

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated	Steel nickel plated
035 612 041	15 (0.591)	9 (0.354)	12 (0.472)	M 6	4	5,6 (12.35)	100	5.000	•	
035 612 051	15 (0.591)	9 (0.354)	12 (0.472)	M 6	5	5,6 (12.35)	100	5.000	•	
035 613 051	17 (0.669)	9 (0.354)	12 (0.472)	M 6	5	7,0 (15.43)	100	2.500	•	
035 615 051	15 (0.591)	9 (0.354)	15 (0.591)	M 6	5	6,7 (14.77)	100	2.500	•	
035 615 841	15 (0.591)	8 (0.315)	15 (0.591)	M 6	4	6,7 (14.77)	100	5.000	•	
035 618 041	15 (0.591)	9 (0.354)	18 (0.709)	M 6	4	7,3 (16.09)	100	2.500	•	
035 618 051	15 (0.591)	9 (0.354)	18 (0.709)	M 6	5	7,3 (16.09)	100	2.500	•	
035 617 053	17 (0.669)	9 (0.354)	17 (0.669)	M 6	5	8,2 (18.08)	100	2.500		•
035 812 051	17 (0.669)	10 (0.394)	12 (0.472)	M 8	5	6,9 (15.21)	100	2.500	•	
035 816 051	19 (0.748)	10 (0.394)	16 (0.630)	M 8	5	9,0 (19.84)	100	2.500	•	
035 118 061	22,5 (0.886)	13 (0.512)	18 (0.709)	M 10	6	15,0 (33.07)	100	1.000	•	



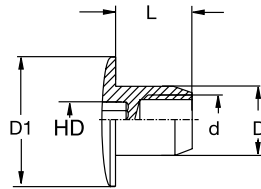
RAMPA Cap Nuts Type RT
with hex drive, through
hole and mushroom head,
decorative for visible joints.

**Ecrou douille RAMPA
modèle RT**
Ecrou ouvert avec bord de
recrouvement convexe et
décoratif à six pans creux.

RT

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Brass nickel plated
026 613 013	12 (0.472)	12 (0.472)	6 (0.236)	M 6	5	3,5 (7.72)	100	5.000	•
026 615 013	12 (0.472)	12 (0.472)	6 (0.236)	M 6	5	5,3 (11.69)	100	5.000	•
026 620 013	16 (0.630)	16 (0.630)	6 (0.236)	M 6	5	8,8 (19.40)	100	2.500	•
026 621 013	20 (0.787)	20 (0.787)	10 (0.394)	M 6	5	9,7 (21.39)	100	2.500	•
026 817 013	25 (0.984)	25 (0.984)	12,5 (0.492)	M 8	5	7,1 (15.65)	100	2.500	•
026 820 013	30 (1.181)	30 (1.181)	15 (0.591)	M 8	5	8,4 (18.52)	100	2.500	•
026 130 013	30 (1.181)	30 (1.181)	10 (0.394)	M 10	5	26,0 (57.32)	100	500	•



RAMPA Cap Nuts

Type RTL

with hex drive, threaded blind hole and mushroom head, decorative for visible joints.

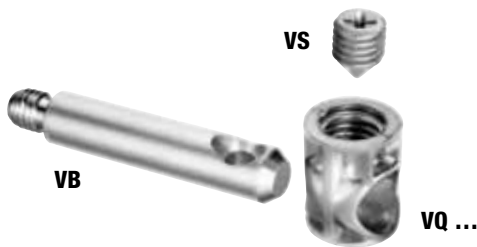
**Ecrou douille RAMPA
modèle RTL**

Ecrou borgne avec bord de recouvrement convexe et décoratif à six pans creux.

RTL

metric

Code	D1 mm (inch)	D mm (inch)	L mm (inch)	d thread size	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
036 612 041	15 (0.591)	9 (0.354)	12 (0.472)	M 6	4	6,2 (13.67)	100	5.000	•
036 612 051	15 (0.591)	9 (0.354)	12 (0.472)	M 6	5	6,2 (13.67)	100	5.000	•
036 615 051	15 (0.591)	9 (0.354)	15 (0.591)	M 6	5	7,0 (15.43)	100	2.500	•
036 618 041	15 (0.591)	9 (0.354)	18 (0.709)	M 6	4	7,5 (16.54)	100	2.500	•
036 618 051	15 (0.591)	9 (0.354)	18 (0.709)	M 6	5	7,5 (16.54)	100	2.500	•
036 814 051	20 (0.787)	10 (0.394)	14 (0.551)	M 8	5	9,7 (21.39)	100	2.500	•
036 816 051	20 (0.787)	10 (0.394)	16 (0.630)	M 8	5	10,0 (22.05)	100	2.500	•
036 820 061	20 (0.787)	10 (0.394)	20 (0.787)	M 8	6	11,0 (24.25)	100	2.500	•
036 113 051	20 (0.787)	13 (0.512)	13 (0.512)	M 10	5	12,6 (27.78)	100	1.500	•



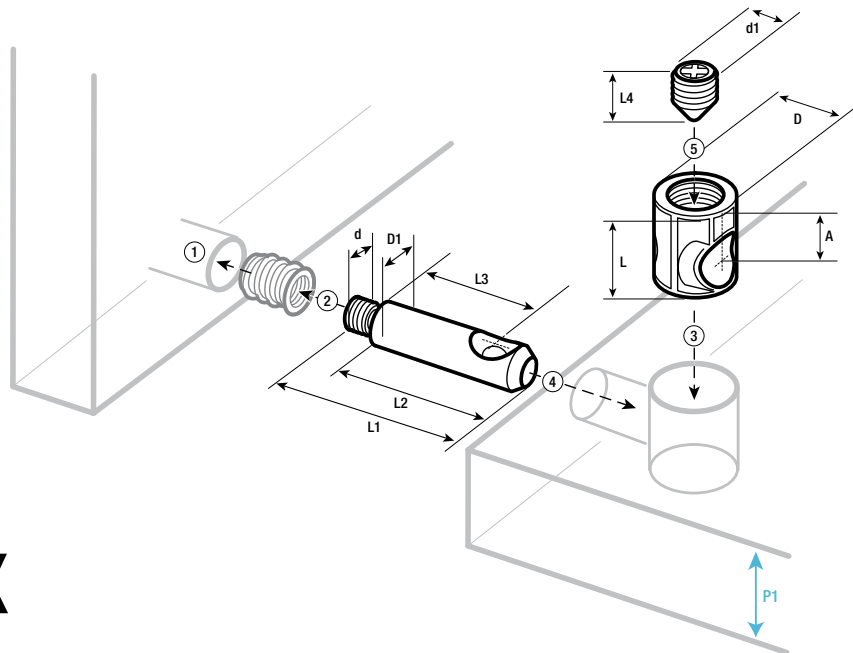
RAMPA Connecting Housing Type VX

Consisting of:
 Connecting Housing VQ/VQB
 Connecting Bolt Type VB
 Connecting Screw Type VS
 A strong connection for heavy duty purposes, invisible when assembled from the furniture's inside.

Ferrures d'assemblage RAMPA modèle VX

Configuration de l'ensemble:
 Boîtier de ferrures d'assemblage modèle VQ/VQB
 Goujon de raccordement modèle VB
 Vis sans tête à six pans creux modèle VS
 Une fixation invisible qui résiste aux charges importantes.

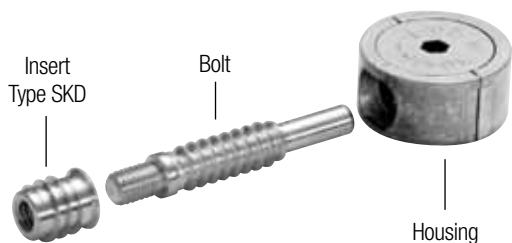
VX
metric



Please note:
 Matching inserts in M6/M8 are shown on page 6–25

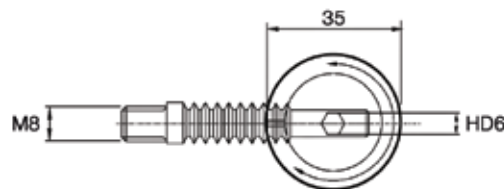
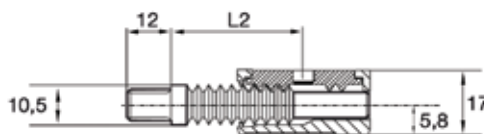
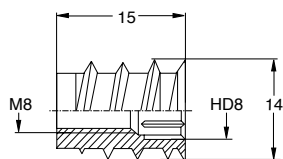
S'il vous plaît noter:
 Inserts assortis dans M6/M8 sont présentés à la page 6–25

Panel thickness P1	Connecting Housing					Die Cast zinc plated	Connecting Bolt						Die Cast zinc plated	Connecting Screw				Die Cast zinc plated	
	Code	Type	D mm (inch)	L mm (inch)	A mm (inch)		Code	Type	D1 mm (inch)	L1 mm (inch)	L2 mm (inch)	L3 mm (inch)		d mm (inch)	Code	Type	d1 mm (inch)		L4 mm (inch)
20	292 816 091	VQ	14 (0.551)	16 (0.630)	10 (0.394)	•	294 846 001	VB	8 (0.315)	46 (1.811)	37 (1.457)	30 (1.181)	M 8	•	293 810 091	VS	M 8	10 (0.394)	•
25	291 817 091	VQB	14 (0.551)	17 (0.669)	12,5 (0.492)	•	294 846 001	VB	8 (0.315)	46 (1.811)	37 (1.457)	30 (1.181)	M 8	•	293 810 091	VS	M 8	10 (0.394)	•
25	292 121 091	VQ	16 (0.630)	20,5 (0.807)	12,5 (0.492)	•	294 646 001	VB	10 (0.394)	46 (1.811)	37 (1.457)	30 (1.181)	M 6	•	293 113 091	VS	M 10	13 (0.512)	•
							294 855 001	VB	10 (0.394)	55 (2.165)	46 (1.811)	38 (1.496)	M 8	•					
30	291 123 091	VQB	16 (0.630)	23 (0.906)	15 (0.591)	•	294 646 001	VB	10 (0.394)	46 (1.811)	37 (1.457)	30 (1.181)	M 6	•	293 113 091	VS	M 10	13 (0.512)	•
							294 855 001	VB	10 (0.394)	55 (2.165)	46 (1.811)	38 (1.496)	M 8	•					



**RAMPA Heavy Duty
Connectors Type VXXL**
for very strong connection,
offered in sets by 10.

**Boîtiers de ferrure
d'assemblage RAMPA
modèle VXXL**
Pour des charges très élevées,
offert par set de 10.



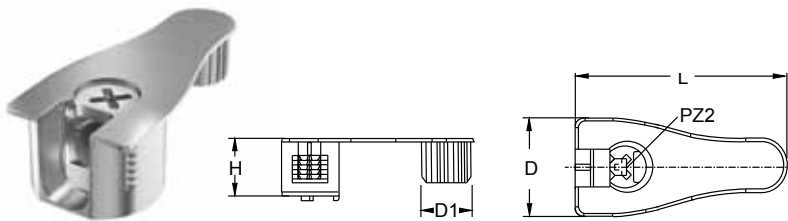
VXXL
metric

Code	Type	Housing	Bolt	Insert	L2 mm (inch)	Weight/ Set kg (lbs)	pieces/ Set
290 864	VXXL64	VQXL	VBXL64	SKD 14 x 15 M8	35 – 38 (1.378 – 1.496)	1,0 (2.21)	10
290 884	VXXL84	VQXL	VBXL84	SKD 14 x 15 M8	55 – 58 (2.165 – 2.283)	1,1 (2.43)	10



**RAMPA Vertical Connector
Type VDZR/VEZR**
without ridge,
for panels installed
from top or front

**RAMPA Vertical Connector
Type VDZS/VEZS**
with ridge, panels can be
installed only from above,
panels are prefixed



**RAMPA Vertical Connector
Type VDZS and VDZR**
with an outrigger and a
die cast excenter; to be
pressed into the pre-drilling
of the shelf board.
VDZR = without ridge,
VDZS = with ridge.

**Boîtiers de ferrure
d'assemblage RAMPA
modèle VDZS et VDZR**
A enfoncer dans le trou
prévu. Avec tourillon et
sans bossage = VDZR,
avec bossage = VDZS.

VDZR

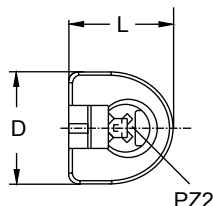
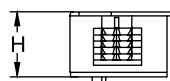
Code	Panel thickness	H mm (inch)	D mm (inch)	L mm (inch)	D1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast nickel plated
270 613 093	16 (0.630)	12,5 (0.492)	22 (0.866)	47 (1.850)	10 (0.394)	15,7 (34.61)	100	1.000	•
270 914 093	19 (0.748)	14,5 (0.571)	22 (0.866)	47 (1.850)	10 (0.394)	16,7 (36.82)	100	1.000	•

VDZS

Code	Panel thickness	H mm (inch)	D mm (inch)	L mm (inch)	D1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast nickel plated
271 613 093	16 (0.630)	12,5 (0.492)	22 (0.866)	47 (1.850)	10 (0.394)	16,0 (35.27)	100	1.000	•
271 914 093	19 (0.748)	14,5 (0.571)	22 (0.866)	47 (1.850)	10 (0.394)	16,7 (36.82)	100	1.000	•

Please note:
For pre-drill guidelines
refer to page 53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 53



RAMPA Vertical Connector Type VEZR and VEZS

with a die cast excenter; to be pressed into the pre-drilling of the shelf board.

VEZR = without ridge,
VEZS = with ridge.

Boîtiers de ferrure d'assemblage RAMPA modèle VEZS et VEZR

A enfoncer dans le trou prévu.
Sans tourillon et
sans bossage = VEZR,
avec bossage = VEZS.

VEZR

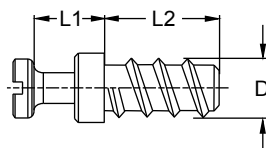
Code	Panel thickness	H mm (inch)	D mm (inch)	L mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast nickel plated
272 613 093	16 (0.630)	12,5 (0.492)	22 (0.866)	19,9 (0.783)	11,1 (24.47)	100	2.000	•
272 914 093	19 (0.748)	14,5 (0.571)	22 (0.866)	19,9 (0.783)	12,0 (26.46)	100	2.000	•

VEZS

Code	Panel thickness	H mm (inch)	D mm (inch)	L mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Die Cast nickel plated
273 613 093	16 (0.630)	12,5 (0.492)	22 (0.866)	19,9 (0.783)	11,2 (24.69)	100	2.000	•
273 914 093	19 (0.748)	14,5 (0.571)	22 (0.866)	19,9 (0.783)	12,3 (27.12)	100	2.000	•

Please note:
For pre-drill guidelines
refer to page 53

S'il vous plaît noter:
Pour le pré-perçage
lignes directrices se
réfèrent à la page 53



RAMPA Connecting Screws Type VSE

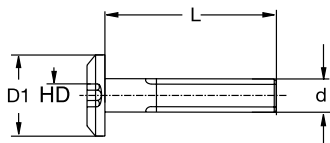
for assembly with RAMPA
Vertical Connectors.

Goujons de raccordement RAMPA modèle VSE

Avec filetage spécial, pour
des assemblages avec les
ferrures d'assemblage RAMPA.

VSE

Code	D mm (inch)	L1 mm (inch)	L2 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel plain
274 717	6 (0.236)	7 (0.276)	8 (0.315)	2,2 (4.85)	100	1.000	•
274 720	6 (0.236)	7 (0.276)	11 (0.433)	2,7 (5.95)	100	1.000	•



RAMPA Flat Head Bolts
Type KF
 with hex drive and decorative
 head for visible joints,
 Grade: 4.8.

Vis à tête plate RAMPA
modèle KF
 A six pans creux et tête
 décorative en 4.8.

KF

UNC/metric

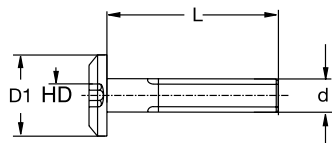
Code	d thread size	L mm (inch)	D1 mm (inch)	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated	Steel nickel plated
151 616 101	1/4"-20 UNC	16 (0.630)	15 (0.591)	4	5,2 (11.46)	100	5.000	•	
151 620 101	1/4"-20 UNC	20 (0.787)	15 (0.591)	4	5,9 (13.01)	100	5.000	•	
151 630 101	1/4"-20 UNC	30 (1.181)	15 (0.591)	4	7,8 (17.20)	100	2.500	•	
151 640 101	1/4"-20 UNC	40 (1.575)	15 (0.591)	4	8,6 (18.96)	100	2.500	•	
151 645 101	1/4"-20 UNC	45 (1.772)	15 (0.591)	4	10,5 (23.15)	100	2.500	•	
151 670 101	1/4"-20 UNC	70 (2.756)	15 (0.591)	4	14,4 (31.75)	100	1.000	•	
151 612 001	M 6	12 (0.472)	15 (0.591)	4	4,6 (10.14)	100	5.000	•	
151 616 001	M 6	16 (0.630)	15 (0.591)	4	5,6 (12.35)	100	5.000	•	
151 616 003	M 6	16 (0.630)	15 (0.591)	4	5,6 (12.35)	100	5.000		•
151 620 001	M 6	20 (0.787)	15 (0.591)	4	6,0 (13.23)	100	5.000	•	
151 620 003	M 6	20 (0.787)	15 (0.591)	4	6,0 (13.23)	100	5.000		•
151 625 001	M 6	25 (0.984)	15 (0.591)	4	6,7 (14.77)	100	2.500	•	
151 625 003	M 6	25 (0.984)	15 (0.591)	4	6,7 (14.77)	100	2.500		•
151 630 001	M 6	30 (1.181)	15 (0.591)	4	7,4 (16.31)	100	2.500	•	
151 630 003	M 6	30 (1.181)	15 (0.591)	4	7,4 (16.31)	100	2.500		•

Please note:

For best results
 when flush mounting
 pre-drilling hole
 with countersink is
 recommended.

S'il vous plaît noter:

Pour de meilleurs
 résultats nous
 vous recommandons
 lamer le trou percé
 au foret pour
 obtenir un montage
 à surface plane.



RAMPA Flat Head Bolts
Type KF
 with hex drive and decorative
 head for visible joints,
 Grade: 4.8.

Vis à tête plate RAMPA
modèle KF
 A six pans creux et tête
 décorative en 4.8.

KF

metric

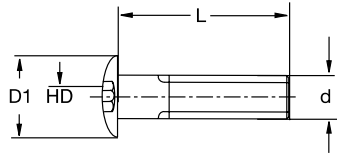
Code	d thread size	L mm (inch)	D1 mm (inch)	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated	Steel nickel plated
151 635 003	M 6	35 (1.378)	15 (0.591)	4	8,3 (18.30)	100	2.500		•
151 640 001	M 6	40 (1.575)	15 (0.591)	4	9,5 (20.94)	100	2.500	•	
151 640 003	M 6	40 (1.575)	15 (0.591)	4	9,5 (20.94)	100	2.500		•
151 645 001	M 6	45 (1.772)	15 (0.591)	4	10,3 (22.71)	100	2.500	•	
151 645 003	M 6	45 (1.772)	15 (0.591)	4	10,3 (22.71)	100	2.500		•
151 650 001	M 6	50 (1.969)	15 (0.591)	4	11,1 (24.47)	100	2.500	•	
151 650 003	M 6	50 (1.969)	15 (0.591)	4	11,1 (24.47)	100	2.500		•
151 660 001	M 6	60 (2.362)	15 (0.591)	4	13,0 (28.66)	100	2.000	•	
151 665 001	M 6	65 (2.559)	15 (0.591)	4	13,6 (29.98)	100	1.000	•	
151 665 003	M 6	65 (2.559)	15 (0.591)	4	13,6 (29.98)	100	1.000		•
151 670 001	M 6	70 (2.756)	15 (0.591)	4	14,6 (32.19)	100	1.000	•	
151 670 003	M 6	70 (2.756)	15 (0.591)	4	14,6 (32.19)	100	1.000		•
151 600 001	M 6	100 (3.937)	15 (0.591)	4	19,5 (42.99)	100	500	•	
151 825 001	M 8	25 (0.984)	17 (0.669)	5	11,5 (25.35)	100	2.500	•	
151 845 001	M 8	45 (1.772)	17 (0.669)	5	16,7 (36.82)	100	1.000	•	

Please note:

For best results
 when flush mounting
 pre-drilling hole
 with countersink is
 recommended.

S'il vous plaît noter:

Pour de meilleurs
 résultats nous
 vous recommandons
 lamer le trou percé
 au foret pour
 obtenir un montage
 à surface plane.



**RAMPA Mushroom Head
Bolts Type KT**
with hex drive and decorative
head for visible joints,
Grade: 4.8.

**Vis avec tête bombée
RAMPA modèle KT**
A six pans creux et tête
décorative en 4.8.

KT

UNC/metric

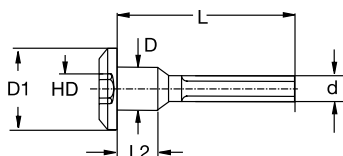
Code	d thread size	L mm (inch)	D1 mm (inch)	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
141 616 101	1/4"-20 UNC	16 (0.630)	15 (0.591)	4	5,2 (11.46)	100	5.000	•
141 620 101	1/4"-20 UNC	20 (0.787)	15 (0.591)	4	5,9 (13.01)	100	5.000	•
141 630 101	1/4"-20 UNC	30 (1.181)	15 (0.591)	4	7,8 (17.20)	100	2.500	•
141 640 101	1/4"-20 UNC	40 (1.575)	15 (0.591)	4	8,6 (18.96)	100	2.500	•
141 645 101	1/4"-20 UNC	45 (1.772)	15 (0.591)	4	10,5 (23.15)	100	2.500	•
141 670 101	1/4"-20 UNC	70 (2.756)	15 (0.591)	4	14,4 (31.75)	100	1.000	•
141 616 001	M 6	16 (0.630)	15 (0.591)	4	5,2 (11.46)	100	5.000	•
141 620 001	M 6	20 (0.787)	15 (0.591)	4	5,9 (13.01)	100	5.000	•
141 630 001	M 6	30 (1.181)	15 (0.591)	4	7,8 (17.20)	100	2.500	•
141 640 001	M 6	40 (1.575)	15 (0.591)	4	9,7 (21.39)	100	2.500	•
141 645 001	M 6	45 (1.772)	15 (0.591)	4	10,5 (23.15)	100	2.500	•
141 665 001	M 6	65 (2.559)	15 (0.591)	4	13,7 (30.20)	100	1.000	•
141 670 001	M 6	70 (2.756)	15 (0.591)	4	14,4 (31.75)	100	1.000	•
141 820 001	M 8	20 (0.787)	17 (0.669)	5	10,7 (23.59)	100	2.500	•
141 840 001	M 8	40 (1.575)	17 (0.669)	5	16,7 (36.82)	100	1.000	•

Please note:

For best results when flush
mounting pre-drilling hole with
countersink is recommended.

S'il vous plaît noter:

Pour de meilleurs résultats nous
vous recommandons lamer le
trou percé au foret pour obtenir
un montage à surface plane.



**RAMPA Flat Head Bolts
Type KFS**

with hex drive, Ø of the shoulder beneath the head in combination with RAMPA Cap Nuts Type RFL with shank Ø 9 allow one pilot hole and stable joints. Grade: 4.8.

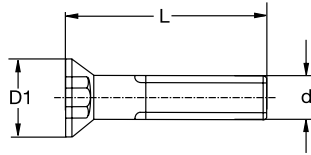
**Vis à tête plate RAMPA
modèle KFS**

A six pans creux et tête décorative en 4.8. La combinaison avec la douille RFL peut faciliter la production grâce au même diamètre dessous la tête de 9mm.

KFS

metric

Code	d thread size	L mm (inch)	D1 mm (inch)	HD	D mm (inch)	L2 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel nickel plated
152 623 003	M 6	23 (0.906)	17 (0.669)	5	8,9 (0.350)	8,5 (0.335)	10,5 (23.15)	100	2.500	•
152 630 003	M 6	30 (1.181)	17 (0.669)	5	8,9 (0.350)	8,5 (0.335)	11,7 (25.79)	100	2.500	•
152 635 003	M 6	35 (1.378)	17 (0.669)	5	8,9 (0.350)	8,5 (0.335)	12,5 (27.56)	100	2.500	•
152 640 003	M 6	40 (1.575)	17 (0.669)	5	8,9 (0.350)	8,5 (0.335)	14,9 (32.85)	100	2.000	•
152 645 003	M 6	45 (1.772)	17 (0.669)	5	8,9 (0.350)	8,5 (0.335)	15,8 (34.83)	100	2.000	•
152 650 003	M 6	50 (1.969)	17 (0.669)	5	8,9 (0.350)	16,5 (0.650)	16,6 (36.60)	100	2.000	•
152 660 003	M 6	60 (2.362)	17 (0.669)	5	8,9 (0.350)	16,5 (0.650)	18,3 (40.35)	100	1.000	•
152 670 003	M 6	70 (2.756)	17 (0.669)	5	8,9 (0.350)	16,5 (0.650)	20,0 (44.09)	100	1.000	•



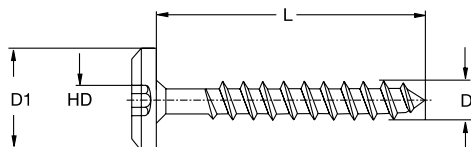
**RAMPA Countersunk Bolts
Type KS**
comply with DIN 7991,
Grade: 4.8.

**Vis à tête fraisée RAMPA
modèle KS**
Suivant la norme DIN 7991
en 4.8.

KS

metric

Code	d thread size	L mm (inch)	D1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
114 620 001	M 6	20 (0.787)	12 (0.472)	4,6 (10.14)	100	5.000	•
114 630 001	M 6	30 (1.181)	12 (0.472)	6,0 (13.23)	100	5.000	•
114 640 001	M 6	40 (1.575)	12 (0.472)	8,0 (17.64)	100	2.500	•
114 602 001	M 6	120 (4.724)	12 (0.472)	21,0 (46.30)	100	500	•
114 820 001	M 8	20 (0.787)	16 (0.630)	8,3 (18.30)	100	2.500	•
114 840 001	M 8	40 (1.575)	16 (0.630)	14,5 (31.97)	100	2.000	•
114 860 001	M 8	60 (2.362)	16 (0.630)	20,6 (45.42)	100	1.000	•
114 880 001	M 8	80 (3.150)	16 (0.630)	27,0 (59.53)	100	500	•



RAMPA Woodscrews

Type HFK

with hex drive and decorative flathead for visible joints, Grade: 4.8.

Vis à bois RAMPA

modèle HFK

A six pans creux et tête plate décorative en 4.8.

HFK

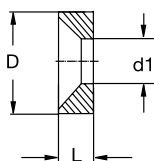
Code	D mm (inch)	L mm (inch)	D1 mm (inch)	HD	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
303 650 001	6,3 (0.248)	50 (1.969)	15 (0.591)	4	11,6 (25.57)	100	2.000	•
303 660 001	6,3 (0.248)	60 (2.362)	15 (0.591)	4	14,6 (32.19)	100	1.000	•
303 670 001	6,3 (0.248)	70 (2.756)	15 (0.591)	4	15,9 (35.05)	100	1.000	•
303 690 001	6,3 (0.248)	90 (3.543)	15 (0.591)	4	17,3 (38.14)	100	1.000	•
303 601 001	6,3 (0.248)	110 (4.331)	15 (0.591)	4	21,0 (46.30)	100	500	•

Please note:

For best results when flush mounting pre-drilling hole with countersink is recommended.

S'il vous plaît noter:

Pour de meilleurs résultats nous vous recommandons lamer le trou percé au foret pour obtenir un montage à surface plane.



RAMPA Collars Type US

accommodating countersunk bolt heads DIN 7991 (e.g. RAMPA Bolts Type KS, page 44).

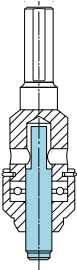
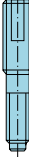
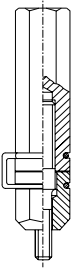
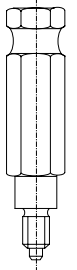
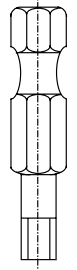
Rosace RAMPA modèle US

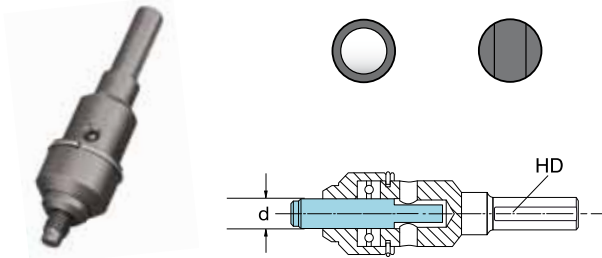
Pour les vis à tête fraisée RAMPA modèle KS (suivants la norme DIN7991, voir à la page 44).

US

Code	D mm (inch)	L mm (inch)	d1 mm (inch)	Weight/ 1.000 kg (lbs)	Packing unit small	Packing unit standard	Steel zinc plated
050 645 001	13 (0.512)	4,5 (0.177)	6 (0.236)	2,3 (5.07)	100	1.000	•
050 646 001	16 (0.630)	3,3 (0.130)	6 (0.236)	3,1 (6.83)	100	1.000	•
050 670 001	20 (0.787)	4,5 (0.177)	6 (0.236)	8,5 (18.74)	100	500	•
050 860 001	17 (0.669)	6 (0.236)	8 (0.315)	6,5 (14.33)	100	500	•

RAMPA Range of tools RAMPA Gamme d'outil

Tool Outil	Type 515	Type 511	Type 512	Type 502	Type 507	Type 506
Tool drive Force motrice de la machine	HD Ø 10		HD 10-30 mm	DIN 3126 E 11,2	DIN 3126 E 6,3	DIN 3126 E 6,3
	 		 	 	 	 
Insert drive Montage par 	 8-32 UNC 10-24 UNC 1/4"-20 UNC 5/16"-18 UNC 3/8"-16 UNC M 4 M 5 M 6 M 8 M 10	 8-32 UNC 10-24 UNC 1/4"-20 UNC 5/16"-18 UNC 3/8"-16 UNC M 4 M 5 M 6 M 8 M 10 M 12	 M 3 M 4 M 5 M 6 M 8 M 10 M 12	 M 3 M 4 M 5 M 6 M 8 M 10	 M 4 M 5 M 6 M 8 M 10	 HD 4 HD 5 HD 6 HD 8 HD 10



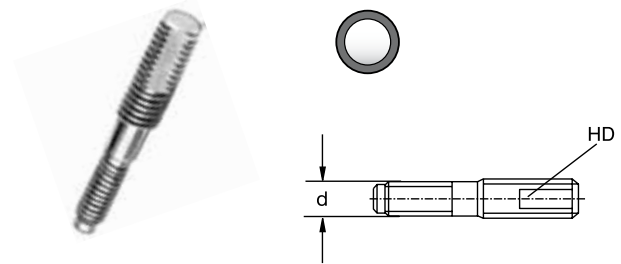
RAMPA Drivers Type 515
with high workload ball
bearing.

Outil de montage
RAMPA modèle 515
Avec roulement à bille.

515

UNC/metric

Code	d thread size	HD	Packing unit standard
515 400 1	8-32 UNC	Ø 10	1
515 500 1	10-24 UNC	Ø 10	1
515 600 1	1/4"-20 UNC	Ø 10	1
515 800 1	5/16"-18 UNC	Ø 10	1
515 100 1	3/8"-16 UNC	E 11,2	1
515 400	M 4	Ø 10	1
515 500	M 5	Ø 10	1
515 502	M 5 red.	Ø 10	1
515 503	M 5 DVZ	Ø 10	1
515 600	M 6	Ø 10	1
515 602	M 6 red.	Ø 10	1
515 603	M 6 DVZ	Ø 10	1
515 800	M 8	Ø 10	1
515 100	M 10	E 11,2	1



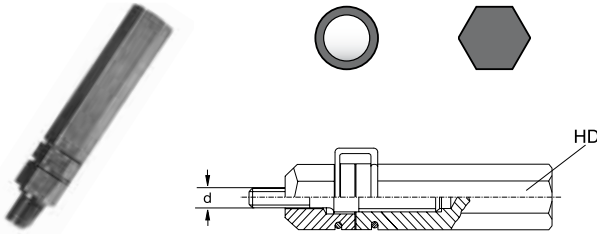
**RAMPA Double End Stud
Bolts Type 511**
Interchangeable Stud Bolts for
RAMPA Driver Type 515.

Goujon de remplacement
RAMPA modèle 511
Goujon pour remplacer
en cas d'usure (pour
les outils de montage
RAMPA modèle 515).

511

UNC/metric

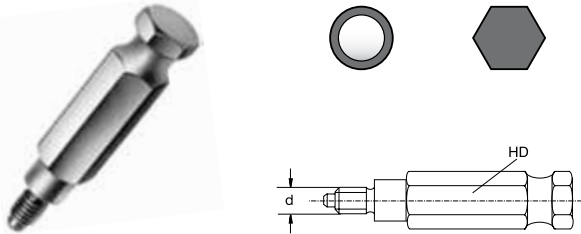
Code	d thread size	HD	Packing unit standard
511 400 1	8-32 UNC	7/16"	1
511 500 1	10-24 UNC	7/16"	1
511 600 1	1/4"-20 UNC	7/16"	1
511 800 1	5/16"-18 UNC	7/16"	1
511 100 1	3/8"-16 UNC	7/16"	1
511 400	M 4	7/16"	1
511 500	M 5	7/16"	1
511 502	M 5 red.	7/16"	1
511 600	M 6	7/16"	1
511 602	M 6 red.	7/16"	1
511 800	M 8	7/16"	1
511 100	M 10	7/16"	1



RAMPA Drivers Type 512
with hexagonal shank and
turnable hex bushing.

**Outils de pose manuel
RAMPA modèle 512**
Avec manche hexagonale
et écrou rotatif.

512			
Code	d thread size	HD	Packing unit standard
512 300	M 3	10	1
512 400	M 4	10	1
512 500	M 5	17	1
512 600	M 6	17	1
512 800	M 8	17	1
512 100	M 10	19	1
512 120	M 12	19	1

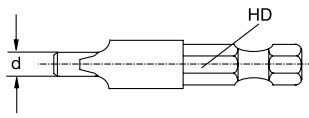


RAMPA Drivers Type 502
with hexagonal
shank according
DIN 3126-Form E 11,2.

**Outils de pose manuel
RAMPA modèle 502**
Avec manche hexagonale
suivant la norme
DIN 3126 E 11,2.

502			
Code	d thread size	HD	Packing unit standard
502 300	M 3	E 11,2	1
502 400	M 4	E 11,2	1
502 500	M 5	E 11,2	1
502 600	M 6	E 11,2	1
502 800	M 8	E 11,2	1
502 100	M 10	E 11,2	1



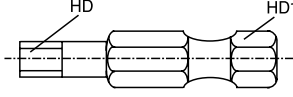


RAMPA Drivers Type 507
to insert slotted RAMPA
Inserts, shank according to DIN
3126-Form E 6,3.

**Outils de pose manuel
RAMPA modèle 507**
Pour le montage des inserts
fendus, la manche suit la
norme DIN 3126 E 6,3.

507				*Please note : For slotted inserts, not to be used for Type C and CA *S'il vous plaît noter: Pour le montage des inserts fendus, pas utilisé pour type C et CA
Code	d thread size	HD	Packing unit standard	
507 400	M4*	1/4" E 6,3	1	
507 500	M 5*	1/4" E 6,3	1	
507 600	M 6*	1/4" E 6,3	1	
507 800	M 8*	1/4" E 6,3	1	
507 100	M 10*	1/4" E 6,3	1	



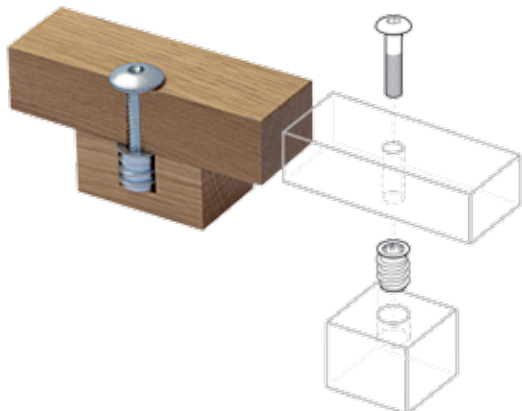


RAMPA Drivers Type 506
with hexagonal
shank according to
DIN 3126-Form E 6,3.

**Outils de pose manuel
RAMPA modèle 506**
Avec manche hexagonale
suivant la norme
DIN 3126 E 6,3.

506				
Code	HD	HD1	Packing unit standard	
506 400	4	1/4" E 6,3	1	
506 500	5	1/4" E 6,3	1	
506 600	6	1/4" E 6,3	1	
506 800	8	1/4" E 6,3	1	
506 100	10	1/4" E 6,3	1	

Examples of Application Exemples d'application

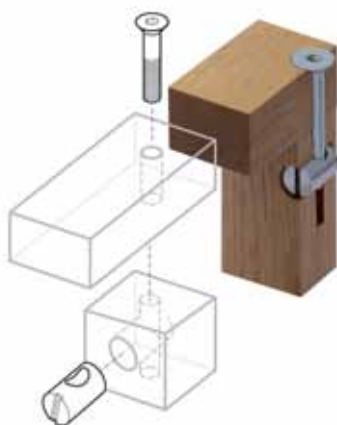


Type SKD + KT

The RAMPA Insert type SKD allows a hidden assembling of furniture elements together with RAMPA Mushroom Head Bolts with hex drive Type KT. Due to the design of the insert the components will be flush mounted and allow an extensive work load.

L'insert RAMPA modèle SKD permet un assemblage caché d'éléments de fournitures avec le vis avec tête bombée à six pans creux, le RAMPA modèle KT. Grâce au design de l'insert les composants forment une surface plane et permettent une charge tractrice extensive.

SKD Page 9
KT Page 42

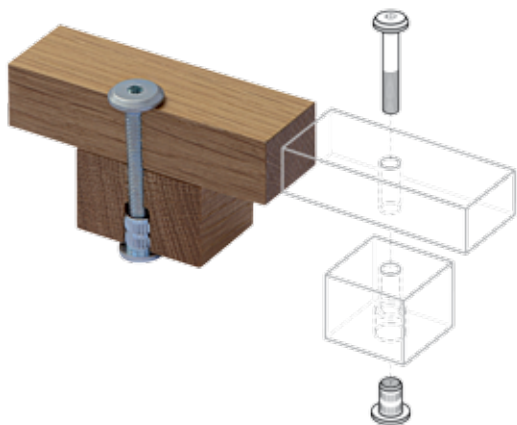


Type Q + KS

A RAMPA Cross Dowel type Q has been pushed into the component and the RAMPA Countersunk Bolt type KS has been inserted perpendicular to the aligned cross dowel.

Un boulon à écrou transversale RAMPA modèle Q a été poussé dans le composant et le RAMPA vis à tête fraisée modèle KS a été inséré alignés perpendiculairement au boulon à écrou transversale.

Q Page 31
KS Page 44



Type TS + KF

The Knock-In Insert type TS with its knurled shank is driven into the wood. The board is attached from above with a RAMPA Flat Head Bolt type KF.

L'insert modèle TS à enfoncer avec l'extérieur moleté à insérer dans le bois. La planche est attachée d'en haut avec un RAMPA vis à tête plate modèle KF.

TS Page 26
KF Page 40/41

www.rampa.com

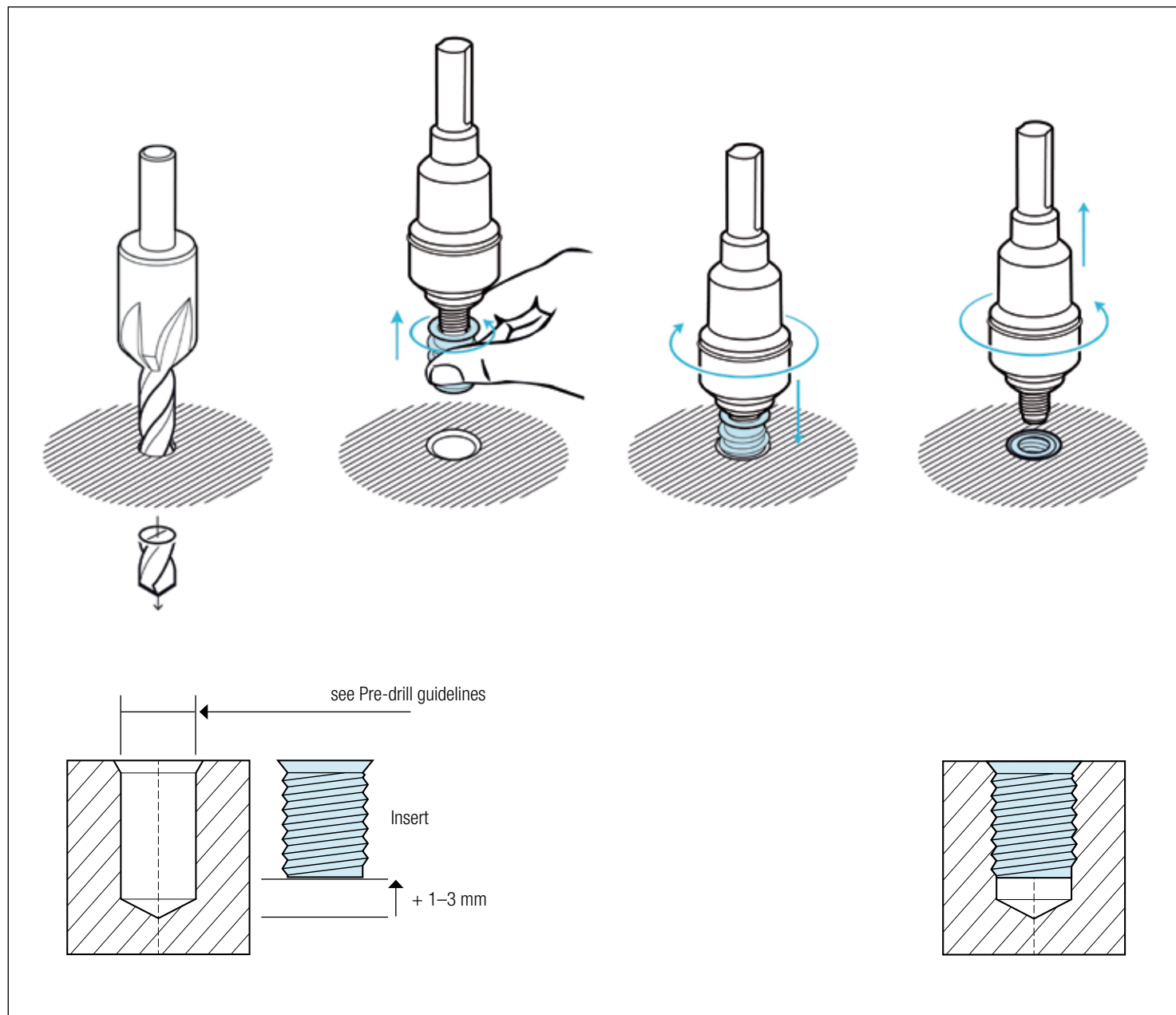
More examples
of application:

Plus d'exemples
d'application:





RAMPA Assembling recommendation RAMPA Instruction d'emploi d'assemblage



www.rampa.com

Pre-drill guidelines
Indications de perçage
et de montage



Pre-drill guidelines

Material Categories	Soft-, Plywoods, Chipboard	Hardwoods, MDF Boards	Soft-, Plywoods, Chipboard	Hardwoods, MDF Boards	Soft-, Plywoods, Chipboard
RAMPA Inserts Type	A, B, C, BL, BV, CV	A, B, C, BL, BV, CV	B stainless steel	B stainless steel	CA, D, SK, SKD, SKL
RAMPA Inserts Material	Brass/Steel	Brass/Steel	1.4104/1.4305	1.4104/1.4305	Brass/Steel
External-Ø	Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to
5	–	–	–	–	–
6	4,6 – 4,9	4,9 – 5,2	–	–	–
6,5	5,3 – 5,6	5,6 – 5,8	–	–	–
8	5,7 – 6,1	6,1 – 6,6	6,2 – 6,6	6,6 – 7,1	6,6 – 6,9
9	6,7 – 7,1	7,1 – 7,6	–	–	–
9,3	7,2 – 7,6	7,6 – 8,1	–	–	–
10	7,6 – 8,0	8,0 – 8,5	7,6 – 8,0	8,0 – 8,5	8,4 – 8,9
12	9,4 – 9,9	9,9 – 10,4	9,4 – 9,9	10,4 – 10,9	10,0 – 10,4
13	10,4 – 10,9	10,0 – 11,4	–	–	11,0 – 11,4
14	11,4 – 11,9	11,9 – 12,4	11,9 – 12,4	12,4 – 12,9	12,0 – 12,4
16	12,6 – 13,3	13,3 – 14,0	14,1 – 14,8	14,5 – 15,0	14,0 – 14,5
18	–	–	–	–	–
18,5	15,1 – 15,8	15,8 – 16,5	–	–	16,2 – 16,7
20	–	–	–	–	–
22	18,3 – 19,0	19,0 – 19,8	19,3 – 20,0	20,0 – 20,8	19,5 – 20,0
25	21,3 – 22,0	22,0 – 22,8	22,3 – 23,0	23,0 – 23,8	22,5 – 23,0
26	–	–	–	–	–
30	26,3 – 27,0	27,0 – 27,8	27,5 – 28,2	27,0 – 27,8	–



Hardwoods, MDF Boards	a) Soft plastics, Hardwoods b) Light metal alloys 1) < 180 N/mm² 2) 180–250 N/mm²	a) Medium hard plastics b) Light metal alloys 250–300 N/mm²	a) Hard plastics b) Light metal alloys 300–350 N/mm²	Light metal alloys >350 N/mm², Brass, Bronze, Wrought-iron, Non-ferrous metals
CA, D, SK, SKD, SKL	a) E, ES, ESK, BAN/BAV b1/b2) ES, ESK, BAN/BAV	a) E, ES, ESK, BAN/BAV b1/b2) ES, ESK, BAN/BAV	a) E, ES, ESK, BAN/BAV b1/b2) ES, ESK, BAN/BAV	ES, ESK, BAN/BAV
Brass/Steel	a/b1) Steel b2) Steel hardened	a/b1) Steel b2) Steel hardened	a/b1) Steel b2) Steel hardened	Steel hardened
Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to	Drill-Ø from – to
–	4,6 – 4,6	4,6 – 4,7	4,7 – 4,7	4,7 – 4,8
–	5,3 – 5,4	5,4 – 5,5	5,5 – 5,6	5,6 – 5,7
–	5,8 – 5,9	5,9 – 6,0	6,0 – 6,1	6,1 – 6,2
6,9 – 7,2	7,1 – 7,2	7,2 – 7,4	7,4 – 7,5	7,5 – 7,6
–	8,1 – 8,2	8,2 – 8,4	8,4 – 8,5	8,5 – 8,6
–	–	–	–	–
8,7 – 9,2	8,6 – 8,8	8,8 – 9,0	9,0 – 9,2	9,2 – 9,4
10,2 – 10,8	10,6 – 10,8	10,8 – 11,0	11,0 – 11,2	11,2 – 11,4
11,2 – 11,8	–	–	–	–
12,2 – 12,8	12,6 – 12,8	12,8 – 13,0	13,0 – 13,2	13,2 – 13,4
14,2 – 14,9	14,6 – 14,8	14,8 – 15,0	15,0 – 15,2	15,2 – 15,4
–	16,6 – 16,8	16,8 – 17,0	17,0 – 17,2	17,2 – 17,4
16,7 – 17,2	–	–	–	–
–	18,6 – 18,8	18,8 – 19,0	19,0 – 19,2	19,2 – 19,4
20,0 – 20,5	–	–	–	–
23,0 – 23,5	–	–	–	–
–	24,8 – 25,0	24,8 – 25,0	25,0 – 25,2	25,0 – 25,2
–	28,8 – 29,0	28,8 – 29,0	29,0 – 29,2	29,0 – 29,2

Please note:

These figures are guidelines only. We recommend to determine the exact measurements through a process of trial and error. All dimensions in mm.

Diameter:

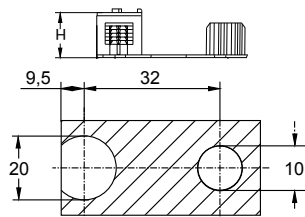
The pilot hole depends on the external diameter of the RAMPA insert and the density of the material. The harder the material, the larger the drill-hole diameter.

Depth:

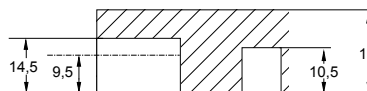
Pilot hole depth = Insert length plus 1–3 mm.

**Pre-drill
guidelines**
(product
page 38/39)

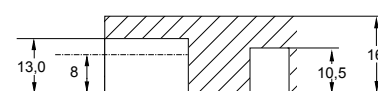
**VDZR
VDZS**



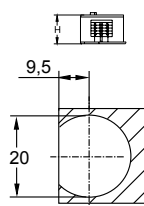
Art. 270 613 093 VDZR
Art. 271 613 093 VDZS



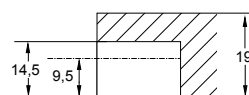
Art. 270 914 093 VDZR
Art. 271 914 093 VDZS



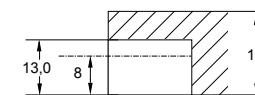
**VEZR
VEZS**



Art. 272 613 093 VEZR
Art. 273 613 093 VEZS



Art. 272 914 093 VEZR
Art. 273 914 093 VEZS



RAMPA – century of fastener excellence

RAMPA – un siècle de la fixation excellence

RAMPA Tec Inc. is the North American subsidiary of the German manufacturer Hans Brüggemann GmbH & Co., founded in 1907 who developed the industry standard DIN 7965. The RAMPA product lines are known world-wide for their proven quality, technical excellence and are used virtually anywhere where two or more components are assembled. RAMPA Tec Inc. provides customized technical solutions with its wide range of fastening products and extensive experience in the industry. For more details, technical data, and samples please contact RAMPA customer service.



RAMPA Tec Inc. est la société filiale nord-américaine de la manufacture allemande, Hans Brüggemann GmbH & Co., qu'a été établie en 1907 et qui a développé le standard industriel DIN 7965. La gamme de produits RAMPA est réputée partout dans le monde pour sa qualité garantie, son excellence technique et pour son utilité virtuelle partout deux composants ou plus sont assemblés. RAMPA Tec Inc. fournit des solutions techniques adaptées aux besoins des clients avec une large gamme de produits d'accrochage et son expérience extensive dans l'industrie. Pour avoir plus de détails, plus de données techniques et d'échantillons, veuillez, s'il vous plaît, contacter le service RAMPA client.



Terms and Conditions

as of 02/2015

ARTICLE I – Scope of application

1. All of the seller's deliveries, services and offers shall be solely based upon these General Terms and Conditions. These shall constitute an integral part of all agreements the seller concludes with his/her contractual partners (hereinafter also referred to as "buyers") for the deliveries or services offered by him. They shall also apply for all future deliveries, services or offers to the buyer, even if they have not again been stipulated separately.
2. Terms and conditions of the buyer or a third party shall not apply, even if the seller does not separately object to their applicability in any individual case. Even if the Seller makes reference to written communication containing or referring to the terms and conditions of the buyer or a third party, this does not suggest any agreement to the validity of such terms and conditions.

ARTICLE II – Offer; conclusion of contract

1. All offers made by the seller are non-binding and subject to change, provided that they have not been expressly identified as binding.
2. The legal relationship between the seller and the buyer is solely governed by the written sales contract entered into which includes these general terms and conditions. Oral agreements made by the seller before concluding this contract are not legally binding and oral agreements of the contracting parties shall be replaced by the written contract.

ARTICLE III – Prices; payment

1. Prices shall apply for the scope of supply and services listed in the order confirmation and delivered by our standard freight carrier. Additional or special services will be calculated separately. Prices are indicated ex works plus the costs for packaging, statutory sales tax, and, in the case of export deliveries, additional customs duty, as well as any fees and other public levies.
2. The seller reserves the right to apply a price surcharge.
3. The invoice amounts are due within 30 days after the date of issue without any deduction, provided that nothing else has been agreed upon in writing. The invoice amount is payable in cash, by credit card, via PayPal or bank transfer. The relevant date of payment is the date the payment is credited to the account of the seller. In the event of payment default on the part of the buyer, the outstanding amount shall be subject to a charge of 5 percent interest per annum starting at the date the payment was due. The application of higher interest rates and additional damages in the event of payment default remains unaffected.
4. Discounts which have been granted shall only apply in connection with the total amounts indicated in the offer along with the order values agreed upon, the quantity of deliveries, as well as payment and delivery terms. Subsequent reductions or changes to the total order shall result in the elimination of special terms.
5. Setting off counterclaims of the buyer or retention of payments due to those claims shall only be permissible to the extent that the claims are indisputable or deemed legally valid.

ARTICLE IV – Special production

In the case of special orders, short deliveries or additional volumes supplied up to 10 % of the order quantity respectively are unavoidable and must therefore be accepted by the buyer.

ARTICLE V – Information on delivery time

1. Delivery shall be made ex works.
2. Terms and deadlines proposed by the seller for deliveries and services are always only approximate unless a fixed term or a fixed deadline has expressly been promised or agreed upon. If shipping has been agreed upon, delivery dates and deadlines refer to the time that freight forwarder, shipping agent, or other third party appointed to execute transport have been notified that the goods are ready for delivery.
3. The seller is not liable for deliveries that are not possible or for delays in delivery to the extent that these have been caused by acts of God or other events which were not foreseeable at the time of concluding the contract (e.g. operating disruptions of any type, difficulties in procuring materials or power, transport delays, strikes, lawful lockouts, workforce, energy or raw materials shortages, difficulties in procuring necessary official permits, official measures, non-delivery, incorrect or late delivery by suppliers), for which the seller is not responsible. Should such circumstances significantly hinder the seller from supplying goods or services, or render these impossible, and the hindrances are not only of temporary nature, then the seller shall be entitled to withdraw from the contract. Hindrances of a temporary nature shall prolong the delivery or service deadlines or postpone the delivery or service deadlines for a period equal to the length of the hindrance plus an appropriate lead time. If as a result of the delay the buyer cannot reasonably be expected to accept the goods or services, the buyer may withdraw from the contract by immediately declaring this to the seller.

ARTICLE VI – Shipment; identification marking; risk transfer

1. The mode of dispatch and packaging are subject to the dutiful discretion of the seller.
2. The supplied products and packages shall only be marked according to German requirements.
3. At the latest, the transfer of risk to the buyer occurs with the handover of the item supplied (whereby the beginning of the loading procedure is decisive) to the shipping agent, freight forwarder or other third party appointed to execute the shipment.
4. This also applies in the case of partial deliveries or where the seller has agreed to undertake other services.

ARTICLE VII – Blanket orders

1. At the latest, blanket orders shall be accepted within six months of concluding the contract unless otherwise agreed upon in writing between the parties.
2. After expiration of the acceptance period, the seller is permitted to deliver the goods that have not yet been accepted by then.

ARTICLE VIII – Expense fee in the case of small orders

In the case of a low net value of goods or other additional occurrence of expense, the seller shall charge proportionate handling fees to the buyer, which must be paid. The exact amount of handling fees to be paid by the buyer can be found at <http://rampa.com>.

ARTICLE IX – Warranty; material defects

1. The warranty period shall be stipulated as one year from delivery or, to the extent that acceptance is required, from the time of acceptance.
2. The delivered items are to be inspected carefully without delay upon delivery to the buyer or a third party specified by the same. With regard to evident defects or other deficiencies that would be considered to have been visible during a careful and immediate examination, the items supplied shall be deemed accepted by the buyer if a written complaint has not been received by the seller within seven working days after delivery. With regard to other defects, the items supplied shall be deemed accepted by the buyer if complaint has not been received by the seller within seven working days after the date the defect appeared. If the defect had already been recognizable to the buyer at an earlier point in time during normal use however, this earlier point in time shall be deemed the beginning of the period allowed for examination and sending notice of a defect or deficiency. Upon request of the seller, an item supplied that is subject to complaint shall be sent back to the seller free of shipping charges. In the event of justified complaint, the seller shall reimburse the costs of the most favorable dispatch route; this does not apply if an increase in cost occurs due to the item supplied being located at a place other than the location for its intended use.
3. In the event of material defects in delivered goods, the seller shall, at his/her own discretion and within a reasonable period, be obliged and entitled to undertake a removal of defects or provide a replacement delivery. If the event of failure to rework goods or supply replacement goods, i.e. in case of impossibility, unreasonableness, refusal or unreasonable delay, the buyer may withdraw from the contract or reduce the purchasing cost appropriately.
4. If the seller is to blame for a defect, the buyer may demand compensation under the conditions stipulated in art. 10.
5. The warranty shall become invalid if the buyer modifies the item supplied or has it modified by a third party without the seller's consent thereby making removal of defects impossible or unacceptably difficult. In any case, the buyer must bear the additional costs incurred by the removal of defects.
6. A delivery of used items agreed with the buyer on an individual basis shall be excluded from any warranty on material defects.

ARTICLE X – Liability for compensation in the event of default

1. Regardless of the legal grounds but in particular due to impossibility, delay, defective or incorrect delivery, infringement of contract, neglect of duties in contract negotiations, and prohibited action to the extent that there is a question of blame in each case, the seller's liability for damages is limited in accordance with this art. 10.
2. The Seller shall not be liable in the event of simple negligence of his/her governing bodies, legal representatives, employees or other vicarious agents unless a violation of obligations under the contract is involved. Essential contractual obligations include the obligation to make punctual deliveries that are free of defects which may impact the reliability or fitness for use of the items supplied more than insignificantly, as well as obligations concerning consultancy, protection and custody obligations, which are to facilitate the contractual use of the item supplied to the buyer or which entail protecting life and limb of the buyer's personnel or the buyer's property from considerable damage.
3. In so far as the seller is liable for damages on the grounds of and in accordance with art. 10 para. 2, this liability shall be limited to damages which the seller foresaw as a possible consequence of an infringement of contract during conclusion of the contract or which the seller should have foreseen if the seller had exercised due care and attention. Indirect damages and consequential damages that result from defects of the item supplied are only subject to compensation to the extent such damage is to be typically expected when using the item supplied as intended.
4. In the event of liability for simple negligence, the seller's obligation to provide compensation for material damage and financial damage resulting thereof is limited to an amount of EUR 5,000,000.00 per compensation claim (corresponding to the current amount of coverage of the seller's product liability insurance or third party liability insurance), even though it involves an infringement of basic contractual obligations.
5. The aforementioned exclusions of liability and limitations apply to the same extent in favor of the governing bodies, legal representatives, employees and other vicarious agents of the seller.
6. The products supplied by the seller comply with respective technical requirements made on the production of such products. The seller assumes no liability for their suitability with regard to the specific way they are used by the buyer. With regard to technical specifications, the buyer must receive written confirmation from the seller as to what extent the respective product is suitable for the intended type of use.

7. To the extent that the seller provides technical information or is active in an advisory role and this information or advice is not part of the contractually agreed scope of services, this is to be provided free of charge and excluded from any and all liability.

8. The limitations of this art. 10 do not apply to the seller's liability on account of deliberate actions, for guaranteed characteristics, fatalities, physical injuries, or health or according to the product liability law in force.

ARTICLE XI – Reservation of title

1. The following agreed reservation of title serves as security for all and any demands of the seller against the buyer, existing now and in the future, arising out of the supply relationship existing between the contracting parties (including any balance claims from a current account limited to this supply relationship).
2. The goods supplied to the buyer by the seller remain under the ownership of the seller until complete payment of all secured claims. The goods and any goods taking their place and subject to reservation of title shall hereinafter be referred to as the "reserved goods".
3. The buyer stores the reserved goods free of charge for the seller.
4. The buyer is entitled to process and sell the reserved goods within the course of orderly business practices until enforcement of default takes place (para. 9). Assignments and pledges of collateral security are not permitted.
5. If the reserved goods are processed by the buyer, it shall be agreed to that processing takes place on behalf of and for the account of the seller as the manufacturer. Thereby, the seller directly acquires ownership or – if the processing involves materials provided by several owners or the value of the processed goods exceeds that of the goods supplied – joint ownership (co-ownership) of the item, which has been newly created, proportional to the value of the reserved goods and the value of the new item. In the event that no such acquisition of ownership on the part of the seller occurs, the buyer henceforth transfers his/her future ownership or – in the relationship mentioned above – joint ownership of the newly created item to the seller as collateral. In the event that reserved goods combine with other articles to constitute a distinct article or are inextricably combined therewith and if one of the other goods can be seen as the main part, to the extent that ownership can be ascribed to him, transfers proportional joint ownership of the distinct article to the buyer in the relation to that which has been stipulated in sentence 1.
6. In the event that the reserved goods are resold, as a precaution, the buyer shall with immediate effect undertake to assign any claims against the acquirer to the seller – in case of the seller's co-ownership of the reserved goods, a proportionate amount according to the degree of ownership. The same shall apply to any other claims that take the place of reserved goods or otherwise accrue with respect to reserved goods, e.g., insurance claims or claims from unauthorized handling in the event of loss or damage. The seller shall confer revocable authorization to the buyer to collect, on the seller's behalf, the claims assigned to the seller. The seller may only revoke this power to collect in the event of enforcement of default.
7. In the event of any third party action against reserved goods, in particular by way of attachment, the buyer shall indicate the ownership of the seller and inform the seller immediately so that the seller may enforce his/her ownership rights. To the extent the third party is not able to reimburse the arising judicial or extrajudicial expenses to the seller, the buyer shall therefore bear liability to the seller.
8. The seller shall release reserved goods or the items or claims taking the place of reserved goods to the extent that the value thereof exceeds the sum of the secured claims by more than 50%. The selection of the items to be released remains at the discretion of the seller.
9. In the event of the seller's withdrawal from contract due to infringement of the agreement on the part of the buyer (enforcement of default) – including payment default in particular – the seller is entitled to demand restitution of the reserved goods.

ARTICLE XII – Repackaging ban

The products or items supplied by the seller may not be repacked by the buyer and subsequently sold under the buyer's own name.

ARTICLE XIII – Final provisions

1. If the buyer is a merchant, a legal entity under public law or a special fund under public law, or has no general jurisdiction in Canada, at the seller's option, the place of jurisdiction for any and all disputes arising from business relations between the buyer and the seller shall be Ontario or the headquarters of the buyer. However, Ontario shall be the exclusive place of jurisdiction for any and all claims filed against the seller in these cases. Mandatory legal provisions concerning exclusive jurisdiction remain unaffected by this regulation.
2. The laws of Canada shall exclusively govern the relationship between the seller and the buyer. The United Nations Convention on Contracts for the International Sale of Goods from April 11, 1980 (CISG) shall not apply.
3. In so far as the contract or these General Terms and Conditions contain any regulatory gaps, the legally effective provisions shall apply which the contracting parties would have agreed upon in accordance with the commercial objectives of the contract and the purpose of these General Terms and Conditions if they had they had been aware of the regulatory gaps.

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