



PRICE LIST 08/2019-WW-A.9.4

SYSTEM GAMMA

PRICE LIST 08/2019-WW-A.9.4



VALIDITY OF PRICES:

This price list is valid from 01.08.2019. From this date old price lists lose their validity. The prices do not include statutory value added tax.

SCOPE OF APPLICATION:

Deliveries and services provided by PASS Stanztechnik AG are effected exclusively according to PASS delivery and payment conditions. These conditions shall be deemed accepted at the latest upon receipt of the goods or services.

CONDITIONS OF PAYMENT:

Unless otherwise stipulated, our invoices are payable in full 30 days after the submission of the invoice.

GENERAL REMARKS:

You can find our general terms and conditions on our Homepage under: www.pass-ag.com

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GAMMA I STATION A

DIAMETER UP TO 12,7 MM







	PART-NO.	PRICE IN €
PUNCH (H-PM®)		
Round	422A21	
Square	422A22	
Rectangle	422A23	
Oblong	422A24	
O.D. Ground Special Shape	422A2G	
EDM Required Special Shape	422A2E	
STRIPPER		
Round	461A21	
Square	461A22	
Rectangle	461A23	
Oblong	461A24	
O.D. Ground Special Shape	461A2G	
EDM Required Special Shape	461A2E	
DIE (HWS)		
Round	4052A01	
Square	4052A02	
Rectangle	4052A03	
Oblong	4052A04	
O.D. Ground Special Shape	4052A0G	
EDM Required Special Shape	4052A0E	

ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

Reinforced version

H-PM®Quality

GAMMA-V2 I STATION A

DIAMETER UP TO 12,7 MM

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PUNCH (H-PM®)		
Round	422A41	
Square	422A42	
Rectangle	422A43	
Oblong	422A44	
O.D. Ground Special Shape	422A4G	
EDM Required Special Shape	422A4E	

STRIPPER	
Round	461A41
Square	461A42
Rectangle	461A43
Oblong	461A44
O.D. Ground Special Shape	461A4G
EDM Required Special Shape	461A4E

DIE (HWS)	
Round	4052A01
Square	4052A02
Rectangle	4052A03
Oblong	4052A04
O.D. Ground Special Shape	4052A0G
EDM Required Special Shape	4052A0E







ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear 2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

Reinforced version H-PM® Quality

GAMMA I STATION B

DIAMETER UP TO 31,75 MM







	PART-NO.	PRICE IN €
PUNCH (H-PM®)		
Round	422B21	
Square	422B22	
Rectangle	422B23	
Oblong	422B24	
O.D. Ground Special Shape	422B2G	
EDM Required Special Shape	422B2E	
STRIPPER		
Round	461B21	
Square	461B22	
Rectangle	461B23	
Oblong	461B24	
O.D. Ground Special Shape	461B2G	
EDM Required Special Shape	461B2E	
DIE (HWS)		
Round	4052B01	
Square	4052B02	
Rectangle	4052B03	
Oblong	4052B04	
O.D. Ground Special Shape	4052B0G	
EDM Required Special Shape	4052B0E	

ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

Reinforced version

H-PM®Quality

GAMMA-V2 I STATION B

DIAMETER UP TO 31,75 MM

PART-NO.

PUNCH (H-PM®)		
Round	422B41	
Square	422B42	
Rectangle	422B43	
Oblong	422B44	
O.D. Ground Special Shape	422B4G	
EDM Required Special Shape	422B4E	

STRIPPER	
Roun	nd 461B41
Squar	re 461B42
Rectangl	le 461B43
Oblon	ng 461B44
O.D. Ground Special Shap	pe 461B4G
EDM Required Special Shan	ne 461B4E

DIE (HWS)	
Round	4052B01
Square	4052B02
Rectangle	4052B03
Oblong	4052B04
O.D. Ground Special Shape	4052B0G
EDM Required Special Shape	4052B0E







ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

Reinforced version

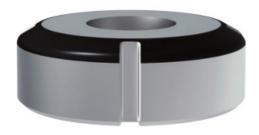
H-PM_®Quality

GAMMA AND GAMMA-V2 I STATION C

DIAMETER UP TO 50,8 MM







	PART-NO.	PRICE IN €
PUNCH (H-PM®)		
Round	422C21	
Square	422C22	
Rectangle	422C23	
Oblong	422C24	
O.D. Ground Special Shape	422C2G	
EDM Required Special Shape	422C2E	
STRIPPER		
Round	461C21	
Square	461C22	
Rectangle	461C23	
Oblong	461C24	
O.D. Ground Special Shape	461C2G	
EDM Required Special Shape	461C2E	
DIE (HWS)		
Round	4052C01	
Square	4052C02	
Rectangle	4052C03	
Oblong	4052C04	
O.D. Ground Special Shape	4052C0G	
EDM Required Special Shape	4052C0E	

ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

H-PM_® Quality

GAMMA AND GAMMA-V2 I STATION D

DIAMETER UP TO 88,9 MM

PART-NO.	PRICE IN €
<u>п</u>	П

PUNCH (H-PM®)	
Round	422D21
Square	422D22
Rectangle	422D23
Oblong	422D24
O.D. Ground Special Shape	422D2G
EDM Required Special Shape	422D2E

STRIPPER	
	Round 461 D21
	Square 461D22
Re	ctangle 461D23
	Oblong 461 D24
O.D. Ground Special	Shape 461D2G
EDM Required Special	Shape 461D2E

DIE (HWS)	
Round	4052D01
Square	4052D02
Rectangle	4052D03
Oblong	4052D04
O.D. Ground Special Shape	4052D0G
EDM Required Special Shape	4052D0E







ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

H-PM_® Quality

GAMMA AND GAMMA-V2 I STATION E

DIAMETER UP TO 114,3 MM



PAR	PRIC
422E21	
422E22	
422E23	
422E24	

422E2G

422E2E



O.D. Ground Special Shape

EDM Required Special Shape

Round Square Rectangle Oblong







ADDITIONAL COSTS FOR PUNCHES

TICN coating

T-MAX coating

PUNCH (H-PM®)

A-MAX coating

WT-shear

DOWT-shear

2PT-shear

4PT-shear

ADDITIONAL COSTS FOR DIES

H-PM_® Quality

PASS TOOL VARIETY I COATINGS

HWS

HWS tools are made of a secondary hardened cold work steel with superior toughness. This type of steel is especially suitable for dies.

Advantage for customer:

excellent cost in accordance to performance

H-PM®

H-PM® tools are produced with steel made on powder-metallurgical base with a high degree of purity.

This guarantees a segregational uniformed microstructure in the complete cross-section of the tool.

Advantage for customer:

excellent cost in accordance to performance good stability for edges by increased toughness

high tool life time due to the unformed microstructure

increased current hit-flex-capability; suitable as an excellent base for dies H-PM® tools are produced with steel made on powder-metallurgical base with a high degree of purity to fullfil the highest punching demands.

Furthermore we attach great importance to a high quality hardening process by repeated temporing and deep-freeze subsequently.

This process guarantees an extremely high hardness with an outstanding wear resistance of our punching tools.

Associated with modern production methods (grinding of the cutting edges with special grinding wheels) we can ensure that the wide range of different sheet qualities can be punched up to 1.600 N/mm² – no matter if it concerns mild alloyed aluminium, mild steel, stainless steel or spring band steel.

A high punch hardness as well as an excellent grinding surface are important in order to counteract the problem with edge build-up.

Tests show us that the well-known TICN coating is a good coating to increase the lifetime (especially working with stainless steel). However, the problem of material buildup on the edges have not really been counteracted.

Built-up edges are known especially when working with

- zinced steel
- aluminium sheets

After specialized tests at PASS Stanztechnik AG the below mentioned coatings turned out to be the most successful coatings:



TICN

for working with stainless steel



A-MAX

for dry processing with aluminium sheet



T-MAX

for working with galvanized sheet / zincor

SALVAGNINI THICK TURRET TRUMPF



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