

PASS STANDARD I STATION B

DIAMETER UP TO 31,7 MM



HEAD UNIT

Hexagon head screw
for simply assembling of punch assembly

Spring for sheet thickness up to 6 mm

2 mm length adjustment
by turning of the distance ring



PUNCH BODY

Metric-thread M20 x 1,5

Punch body made with premium H-PM®

Alignment pin with double D for exact adjustment



PUNCH GUIDE

Surface-hardened and polished punch
guide for sheet thickness up to 6 mm

Keyway:

Round: 0°

Square: 0-45°

Rect./Oblong: 0-90-225°

Asym. shapes: 0-90-180-270°

Tool shapes integrated in guide

PASS STANDARD I STATION B

DIAMETER UP TO 31,7 MM

		PART NO.
COMPLETE PUNCH ASSEMBLY		
	Round	4012B01
	Square	4012B02
	Rectangle	4012B03
	Oblong	4012B04
	O.D. Ground Special Shape	4012B0G
	EDM Required Special Shape	4012B0E
HEAD UNIT (HEAD SCREW, SPRING, DISTANCE RING)		
	For all shapes	4092B01
PUNCH BODY (H-PM®)		
	Round	4022B01
	Square	4022B02
	Rectangle	4022B03
	Oblong	4022B04
	O.D. Ground Special Shape	4022B0G
	EDM Required Special Shape	4022B0E
PUNCH GUIDE		
	Round	4032B01
	Square	4032B02
	Rectangle	4032B03
	Oblong	4032B04
	O.D. Ground Special Shape	4032B0G
	EDM Required Special Shape	4032B0E
DIE (HWS)		
	Round	4052B01
	Square	4052B02
	Rectangle	4052B03
	Oblong	4052B04
	O.D. Ground Special Shape	4052B0G
	EDM Required Special Shape	4052B0E



SPARE PARTS		ADDITIONAL COSTS FOR PUNCH
Head screw	4092B31	TICN coating
Spring	4092B11	T-MAX coating
Distance ring	4092B21	A-MAX coating
O-Ring (in punch guide)	4092B51	WT-shear
PU ejector Ø 3x6 (in punch)	4092P03	DOWT-shear
PU ejector Ø 6x10 (in punch)	4092P06	2 PT-shear
		4 PT-shear
		Cutting part under 1,00 mm
COMPENSATING SHIM FOR PUNCH		ADDITIONAL COSTS FOR PUNCH GUIDE
Piece (2 mm)	499B4S2	Additional keyway
SET OF COMPENSATING SHIMS FOR DIE		ADDITIONAL COSTS FOR DIES
1x0,4 mm/1x0,8 mm/1x1,2 mm	499B1M1	Reinforced die
Shimkeeper (0,5 mm)	499B1M95	H-PM® Quality
		Additional pin hole

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DIAMETER UP TO 31,7 MM



HEAD UNIT

Canister for sheet thickness up to 4 mm

Continuously and easy length adjustment
in assembled status



PUNCH BODY

Metric-thread M20 x 1,5

Punch body made with premium H-PM®

Alignment pin with double D for exact adjustment



PUNCH GUIDE

Surface-hardened and polished punch
guide for sheet thickness up to 4 mm

Keyway:

All shapes: 0-45-90-180-270°

STRIPPER

Interchangeable stripper plate

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DIAMETER UP TO 31,7 MM

PART-NO.

COMPLETE PUNCH ASSEMBLY		
	Round	4013B01
	Square	4013B02
	Rectangle	4013B03
	Oblong	4013B04
	O.D. Ground Special Shape	4013B0G
	EDM Required Special Shape	4013B0E

HEAD UNIT		
	For all shapes	4093B01

PUNCH BODY (H-PM®)		
	Round	4023B01
	Square	4023B02
	Rectangle	4023B03
	Oblong	4023B04
	O.D. Ground Special Shape	4023B0G
	EDM Required Special Shape	4023B0E

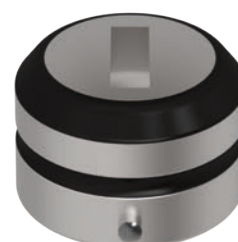
PUNCH GUIDE		
	For all shapes	4033B05

STRIPPER		
	Round	4043B01
	Square	4043B02
	Rectangle	4043B03
	Oblong	4043B04
	O.D. Ground Special Shape	4043B0G
	EDM Required Special Shape	4043B0E

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

SPARE PARTS		ADDITIONAL COSTS FOR PUNCH
O-Ring (in punch guide)	4092B51	TICN coating
PU ejector Ø 3x6 (in punch)	4092P03	T-MAX coating
PU ejector Ø 6x10 (in punch)	4092P06	A-MAX coating
		WT-shear
		DOWT-shear
		2 PT-shear
		4 PT-shear
		Cutting part under 1,00 mm
COMPENSATING SHIM FOR PUNCH		ADDITIONAL COSTS FOR PUNCH GUIDE
Not necessary		Additional keyway

SET OF COMPENSATING SHIMS FOR DIE		ADDITIONAL COSTS FOR DIES
1x0,4 mm/1x0,8 mm/1x1,2 mm	499B1M1	Reinforced die
Shimkeeper (0,5 mm)	499B1M95	H-PM® Quality
		Additional pin hole



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DIAMETER UP TO 31,7 MM



HEAD UNIT

Canister for sheet thickness up to 4 mm

Continuously and easy length adjustment
in assembled status



PUNCH BODY

Metric-thread M20 x 1,5

Punch body made with premium H-PM®

Alignment pin with double D for exact adjustment



PUNCH GUIDE

Surface-hardened and polished punch
guide for sheet thickness up to 4 mm

Keyway:

Round: 0°

Square: 0-45°

Rect./Oblong: 0-45-90-135°

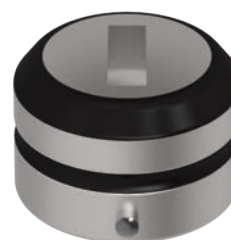
Asym. shapes: 0-90-180-270°

Tool shapes integrated in guide

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DIAMETER UP TO 31,7 MM

		PART NO.
COMPLETE PUNCH ASSEMBLY		
	Round	4017B01
	Square	4017B02
	Rectangle	4017B03
	Oblong	4017B04
	O.D. Ground Special Shape	4017B0G
	EDM Required Special Shape	4017B0E
HEAD UNIT		
	For all shapes	4093B01
PUNCH BODY (H-PM®)		
	Round	4023B01
	Square	4023B02
	Rectangle	4023B03
	Oblong	4023B04
	O.D. Ground Special Shape	4023B0G
	EDM Required Special Shape	4023B0E
PUNCH GUIDE		
	Round	4032B01
	Square	4032B02
	Rectangle	4032B03
	Oblong	4032B04
	O.D. Ground Special Shape	4032B0G
	EDM Required Special Shape	4032B0E
DIE (HWS)		
	Round	4052B01
	Square	4052B02
	Rectangle	4052B03
	Oblong	4052B04
	O.D. Ground Special Shape	4052B0G
	EDM Required Special Shape	4052B0E



SPARE PARTS		ADDITIONAL COSTS FOR PUNCH
O-Ring (in punch guide)	4092B51	TICN coating
PU ejector Ø 3x6 (in punch)	4092P03	T-MAX coating
PU ejector Ø 6x10 (in punch)	4092P06	A-MAX coating
		WT-shear
		DOWT-shear
		2 PT-shear
		4 PT-shear
		Cutting part under 1,00 mm
COMPENSATING SHIM FOR PUNCH		ADDITIONAL COSTS FOR PUNCH GUIDE
Not necessary		Additional keyway
SET OF COMPENSATING SHIMS FOR DIE		ADDITIONAL COSTS FOR DIES
1x0,4 mm/1x0,8 mm/1x1,2 mm	499B1M1	Reinforced die
Shimkeeper (0,5 mm)	499B1M95	H-PM® Quality
		Additional pin hole

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DIAMETER UP TO 31,7 MM



HEAD UNIT

Canister for sheet thickness up to 6 mm

Spring

10 mm length adjustment by thread

Oil channel for sheet lubrication



PUNCH BODY

Oil channel for sheet lubrication

Alignment pin with double D for exact adjustment

Punch body made with premium H-PM®



PUNCH GUIDE

Simple length adjustment in assembled state by pressing the locking button

Surface-hardened and polished punch guide for sheet thickness up to 6 mm

Keyway:

All shapes: 0-90-225°

STRIPPER

Interchangeable stripper plate

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DIAMETER UP TO 31,7 MM

PART-NO.

COMPLETE PUNCH ASSEMBLY		
	Round	4010B01
	Square	4010B02
	Rectangle	4010B03
	Oblong	4010B04
	O.D. Ground Special Shape	4010B0G
	EDM Required Special Shape	4010B0E

HEAD UNIT		
	For all shapes	4090B10

PUNCH BODY (H-PM®)		
	Round	4020B01
	Square	4020B02
	Rectangle	4020B03
	Oblong	4020B04
	O.D. Ground Special Shape	4020B0G
	EDM Required Special Shape	4020B0E

PUNCH GUIDE		
	For all shapes	4030B05

STRIPPER		
	Round	4040B01
	Square	4040B02
	Rectangle	4040B03
	Oblong	4040B04
	O.D. Ground Special Shape	4040B0G
	EDM Required Special Shape	4040B0E

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

SPARE PARTS		ADDITIONAL COSTS FOR PUNCH
O-Ring (in punch guide)	4092B51	TICN coating
PU ejector Ø 3x6 (in punch)	4092P03	T-MAX coating
PU ejector Ø 6x10 (in punch)	4092P06	A-MAX coating

WT-shear
DOWT-shear
2 PT-shear
4 PT-shear

Cutting part under 1,00 mm

COMPENSATING SHIM FOR PUNCH		ADDITIONAL COSTS FOR PUNCH GUIDE
Not necessary		Additional keyway

SET OF COMPENSATING SHIMS FOR DIE		ADDITIONAL COSTS FOR DIES
1x0,4 mm/1x0,8 mm/1x1,2 mm	499B1M1	Reinforced die
Shimkeeper (0,5 mm)	499B1M95	H-PM® Quality
		Additional pin hole



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DIAMETER UP TO 31,7 MM



HEAD UNIT

Canister for sheet thickness up to 6 mm

Spring

10 mm length adjustment by thread

Oil channel for sheet lubrication



PUNCH BODY

Oil channel for sheet lubrication

Alignment pin with double D for exact adjustment

Punch body made with premium H-PM®



PUNCH GUIDE

Simple length adjustment in assembled state by pressing the locking button

Surface-hardened and polished punch guide for sheet thickness up to 6 mm

Keyway:

Round: 0°

Square: 0-45°

Rect./Oblong: 0-45-90-135°

Asym. shapes: 0-90-180-270°

Tool shapes integrated in guide

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DIAMETER UP TO 31,7 MM

		PART NO.
COMPLETE PUNCH ASSEMBLY		
	Round	4016B01
	Square	4016B02
	Rectangle	4016B03
	Oblong	4016B04
	O.D. Ground Special Shape	4016B0G
	EDM Required Special Shape	4016B0E
HEAD UNIT		
	For all shapes	4094B10
PUNCH BODY (H-PM®)		
	Round	4024B01
	Square	4024B02
	Rectangle	4024B03
	Oblong	4024B04
	O.D. Ground Special Shape	4024B0G
	EDM Required Special Shape	4024B0E
PUNCH GUIDE		
	Round	4036B01
	Square	4036B02
	Rectangle	4036B03
	Oblong	4036B04
	O.D. Ground Special Shape	4036B0G
	EDM Required Special Shape	4036B0E
DIE (HWS)		
	Round	4052B01
	Square	4052B02
	Rectangle	4052B03
	Oblong	4052B04
	O.D. Ground Special Shape	4052B0G
	EDM Required Special Shape	4052B0E



SPARE PARTS		ADDITIONAL COSTS FOR PUNCH
O-Ring (in punch guide)	4092B51	TiCN coating
PU ejector Ø 3x6 (in punch)	4092P03	T-MAX coating
PU ejector Ø 6x10 (in punch)	4092P06	A-MAX coating
		WT-shear
		DOWT-shear
		2 PT-shear
		4 PT-shear
		Cutting part under 1,00 mm
COMPENSATING SHIM FOR PUNCH		ADDITIONAL COSTS FOR PUNCH GUIDE
Not necessary		Additional keyway
SET OF COMPENSATING SHIMS FOR DIE		ADDITIONAL COSTS FOR DIES
1x0,4 mm/1x0,8 mm/1x1,2 mm	499B1M1	Reinforced die
Shimkeeper (0,5 mm)	499B1M95	H-PM® Quality
		Additional pin hole