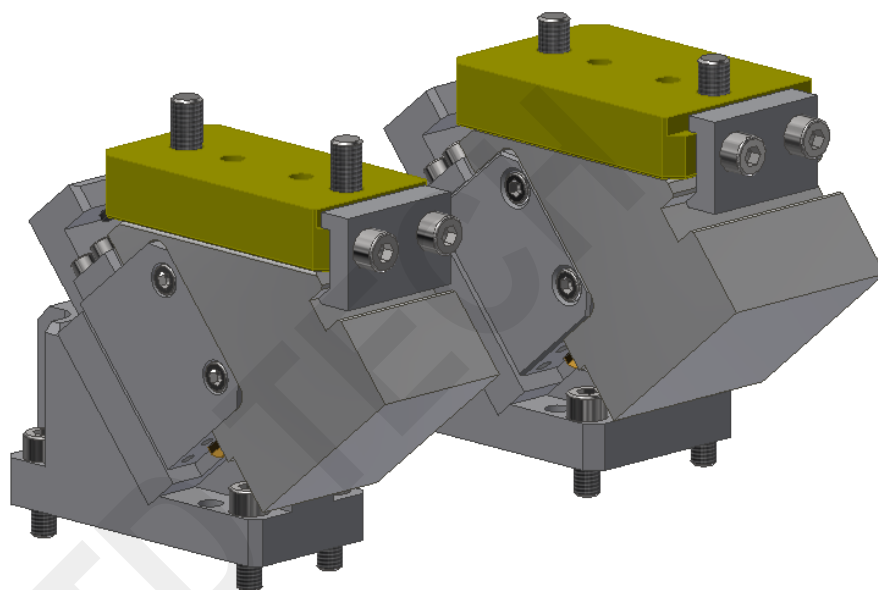


PRESS DIE STANDARD COMPONENTS



YouTube / ATD TECH



VOL. A9-APCP-EN-SIM-R0

Distributor

■ **CI**



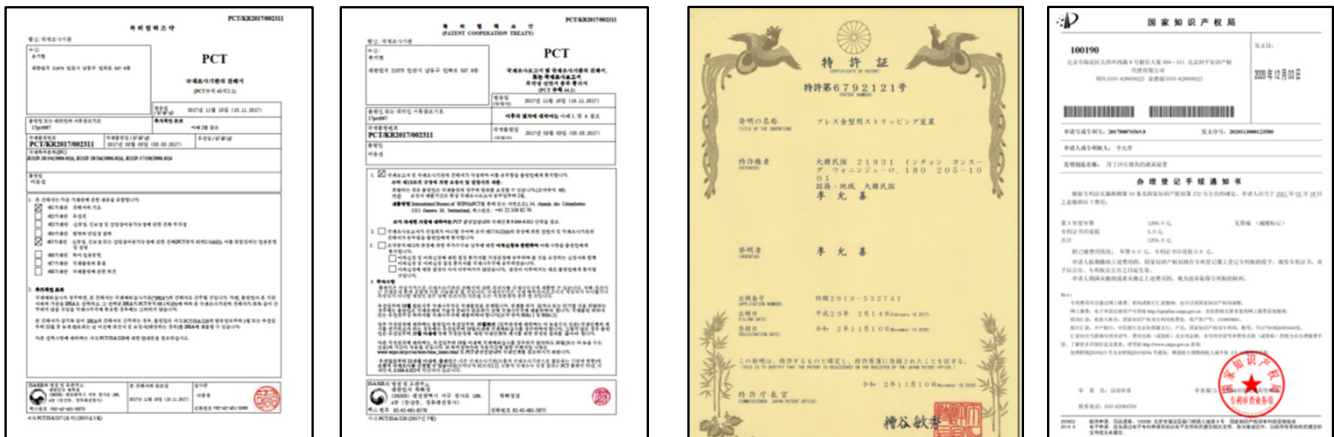
- E-mail : atdtechcam@gmail.com
- Tel. : +82-10-2048-1352
- Fax. : +82-504-449-1352

■ **PATENT**

• **Korea**



• **International**



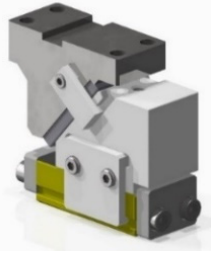
Europe

Europe

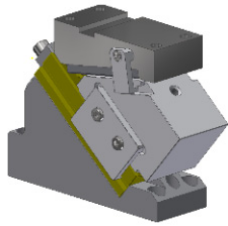
Japan

China

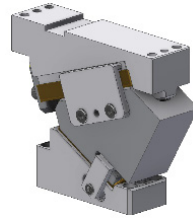
A	CAM SLIDE UNITS & PIERCING UNITS	A
B	DISK STRIPPER	B
C	DISK PAD GUIDE UNITS & MODULE	C
D	BALANCE CONTROL UNITS	D
E	SPRING GUIDE LIFTER	E
F	PRESS DIE STANDARD COMPONENTS	F
G	PRESS DIE AUTOMOTIVE DEVICE	G
H	NEW ITEMS (COMING SOON)	H
I	APPLICATIONS & TECHNICAL SUPPORT	J



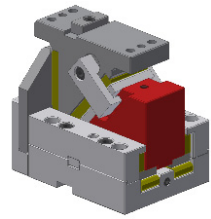
Horizontal PRO Cam Unit
APC **A1**



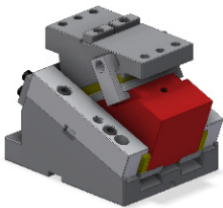
Inclined PRO Cam Unit
APC **A2**



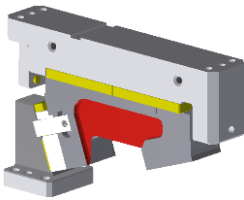
Aerial PRO Cam Unit
APCA **A3**



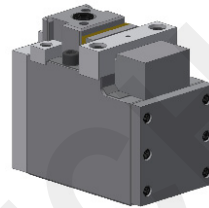
Steel Cam Unit
ADCDG **A4**



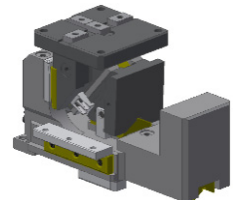
Inclined Steel Cam Unit
ATCDG **A5**



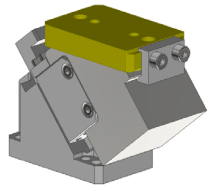
Long Body Cam
ALC **A6**



Reverse Cam Unit
AVC **A7**



Double Action Cam Unit
AUC **A8**



Pad Cam Unit
APCP **A9**

Coming Soon

Roller Cam Unit
ARC **A10**

Coming Soon

Dual Return Cam
ADR **A11**

Coming Soon

Drop Cam Unit
ASC **A12**

- Please contact to ATD sales team or global network for market standard cam units
- For technical support from ATD technical engineer, contact our network with panel data by e-mail

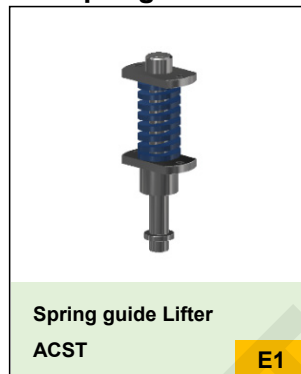
● DISK STRIPPER & DISK PAD GUIDE MODLE



● Balance Controller



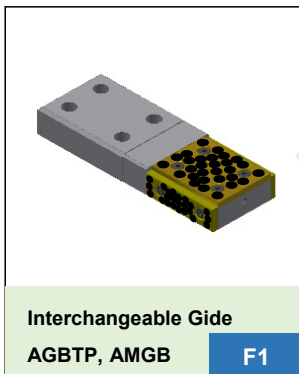
● Spring Guide Lifter



● Cam Support Block



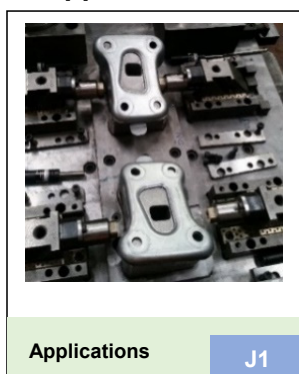
● Market Standard



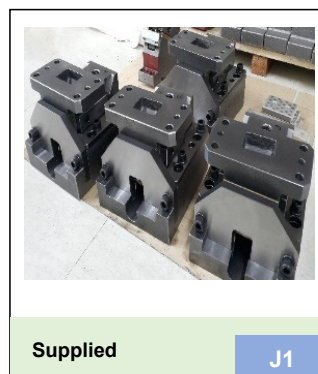
● Functional Devices

- The other market standard products can be supplied.
- Contact ATD sales or engineering department for special design, customer required products.
- Coming soon developing components.
- Please contact our sales network for 2D/3D cad data

● Application



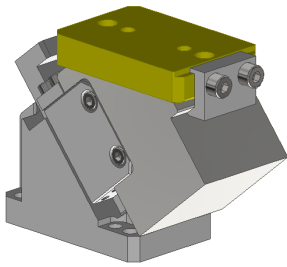
● Supplied



● Technical



ATD TECH

PATENT PENDING

ATD TECH PAD CAM is a compact and rigid cam unit designed for piercing operation in limited die spaces.

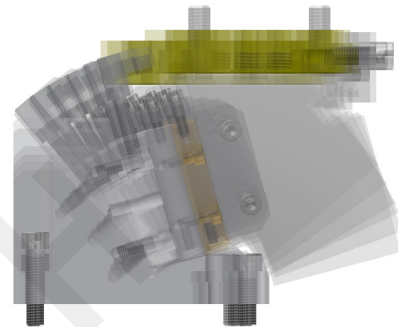
Its simple structure provides reliable performance, easy installation, and efficient die design.

A9

■ Features

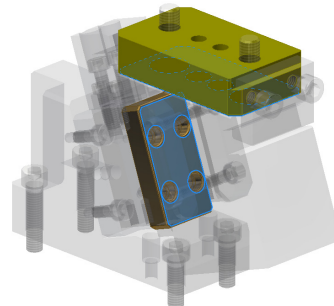
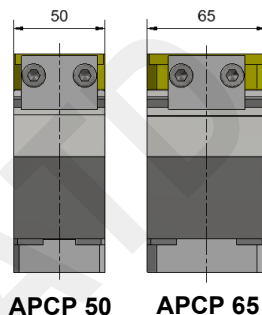
1. Wide Range of Working Angles

Available in working angles from 50° to 75° in 5° increments, providing flexible application for various die layouts and punching conditions.



2. Compact & Rigid Design

With overall widths of 50 and 65 mm, the compact design is optimized for punch applications, minimizing installation space while maintaining high structural rigidity and stable operation.

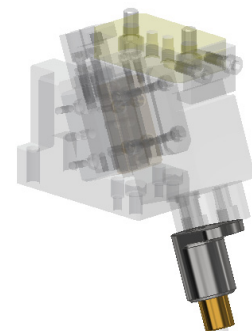


3. High Load Capacity

All main body components are made of surface-hardened carbon steel and operate against #500SP sliding surfaces, providing excellent wear resistance, high load capacity, and stable performance under demanding working conditions.

4. Optimized for ADS Punch Stripper

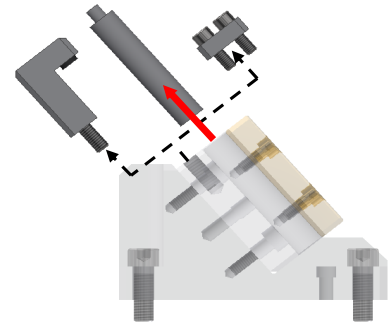
Designed for optimal integration with the ATD TECH ADS Punch Stripper, providing stable stripping force and reliable punch guidance while maintaining a compact die layout. This combination helps improve punching stability, punch life, and overall die reliability.



PATENT PENDING

5. For High tensile strength and aluminum material

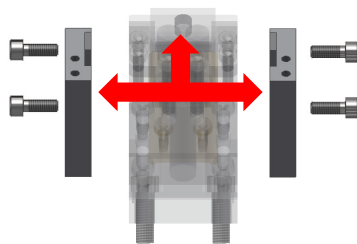
Gas Spring Reliability with Recommended Pairing
The APCP Series incorporates gas springs for consistent and reliable return motion, even when processing high-tensile or thick materials.



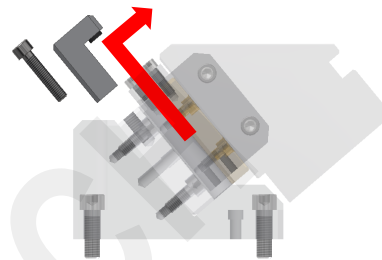
6. Dis-assembly directions

The APCP Series supports both upward and rear-side disassembly, providing excellent flexibility to suit various die layouts.

• Upward



• Backward

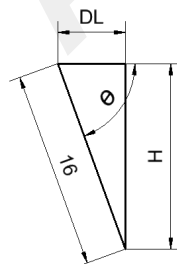


▪ How to order / Code

① ② ③ ④
APCP - 65 - 50 - GD - S

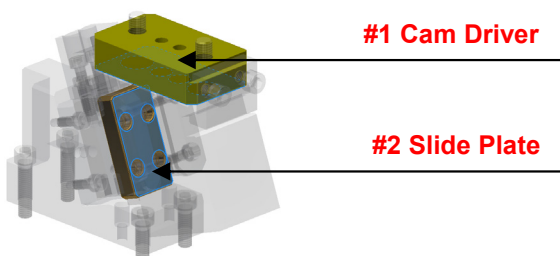
- ① **SLIDER WIDTH** [50mm, 65mm]
- ② **WORKING ANGLE** [50, 55, 60, 65, 70, 75]
- ③ **Options**
 - Gas Spring Brand
GK(Kaller), **GD**(Dadco), **GP**(Powertec)
NG(without gas spring)
- ④ **Special Order**

▪ Cam Diagram



ST	-	A					
		50	55	60	65	70	75
16	DL	10.3	9.2	8	6.8	5.5	4.1
	H	12.2	13.1	13.9	14.5	15	15.5

▪ Maintenance Parts



• How to order

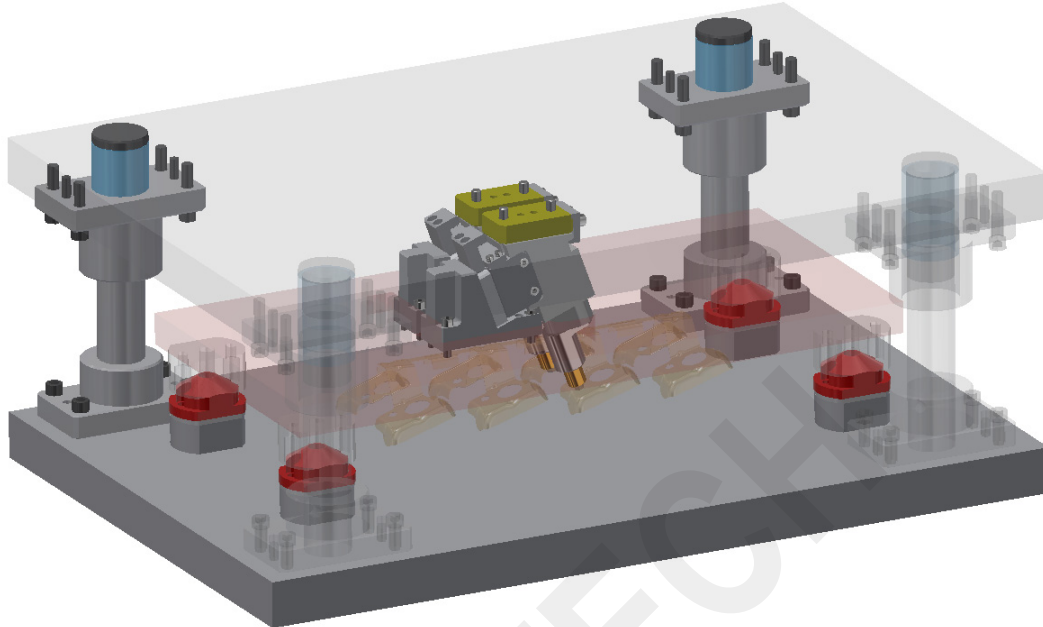
APCP 50-50-#1

APCP 65-60-#2

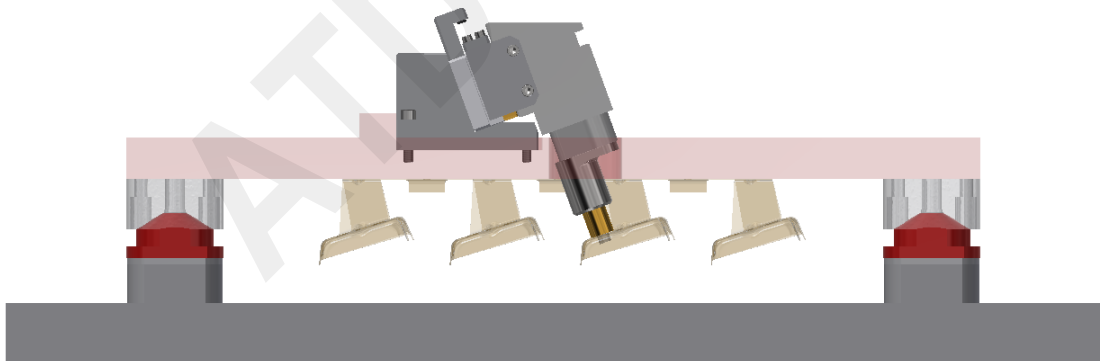
PATENT PENDING

7. Recommended Die Structure

For accurate and stable pad cam punch setup, a center cone guide between the lower die and the pad is recommended.



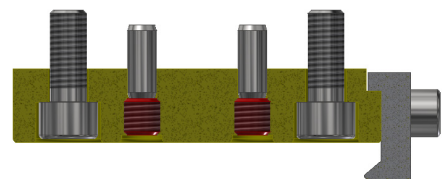
Since the pad cam operates based on the alignment between the lower die and the pad rather than the upper die guiding system, precise pad-to-lower-die positioning is essential for reliable punch-to-die alignment and stable cam operation.



8. Cam Driver Dowel Pin Retention

Set screws are provided to prevent the cam driver locating dowel pins from falling out or protruding. After assembly, check for protrusion and apply thread-locking treatment.

Refer to the illustration on the right.



- Please contact our sales network for Full version catalog or 3D cad data

▪ **Gas Springs**

APCP	(GK) Kaller	(GD) Dadco	(GP) Powertec	Final Force at 16mm N(kgf)
APCP-50-XX	R12-19-Black	C.045.019.BK	PS45-19-BU	540 (55)
APCP-65-XX	R15-19-Black	C.070.019.BK	PS70-19-BU	750 (76)

- Options : GK, GD, GP
- Gas springs are set to a standard charging pressure of 150 bar. Return force values are based on an operating stroke of 16 mm.

▪ **Recommended Working Force (Ref.)**

APCP	Standard Recommended Force kN (ton)	Max. Recommended Force kN (ton)	Return Force N (kgf)
APCP-50-50	49.0 (5.0)	63.7 (6.5)	540 (55)
APCP-50-55	53.9 (5.5)	73.5 (7.5)	
APCP-50-60	58.8 (6.0)	78.5 (8.0)	
APCP-50-65			
APCP-50-70	63.7 (6.5)	83.4 (8.5)	
APCP-50-75			
APCP-65-50	54.0 (5.5)	74.0 (7.5)	750 (76)
APCP-65-55	64.0 (6.5)	83.0 (8.5)	
APCP-65-60	69.0 (7.0)	93.0 (9.5)	
APCP-65-65			
APCP-65-70	74.0 (7.5)	93.0 (9.5)	
APCP-65-75			

▪ **Recommended Working Force by Punch Position**

30%	50%	60%	50%	30%
30%	80%	100%	80%	30%
40%	90%	100%	90%	40%
30%	80%	100%	80%	30%
30%	50%	60%	50%	30%

- APCP 50: Mounting Face 50 × 70~60 mm**
- APCP 65: Mounting Face 65 × 70 mm**
- The diagram represents relative positions on the punch mounting face and applies to both APCP 50 and 65 Series.
- Values indicate the applicable percentage of the Standard Recommended Working Force according to the punch or resultant load center position.