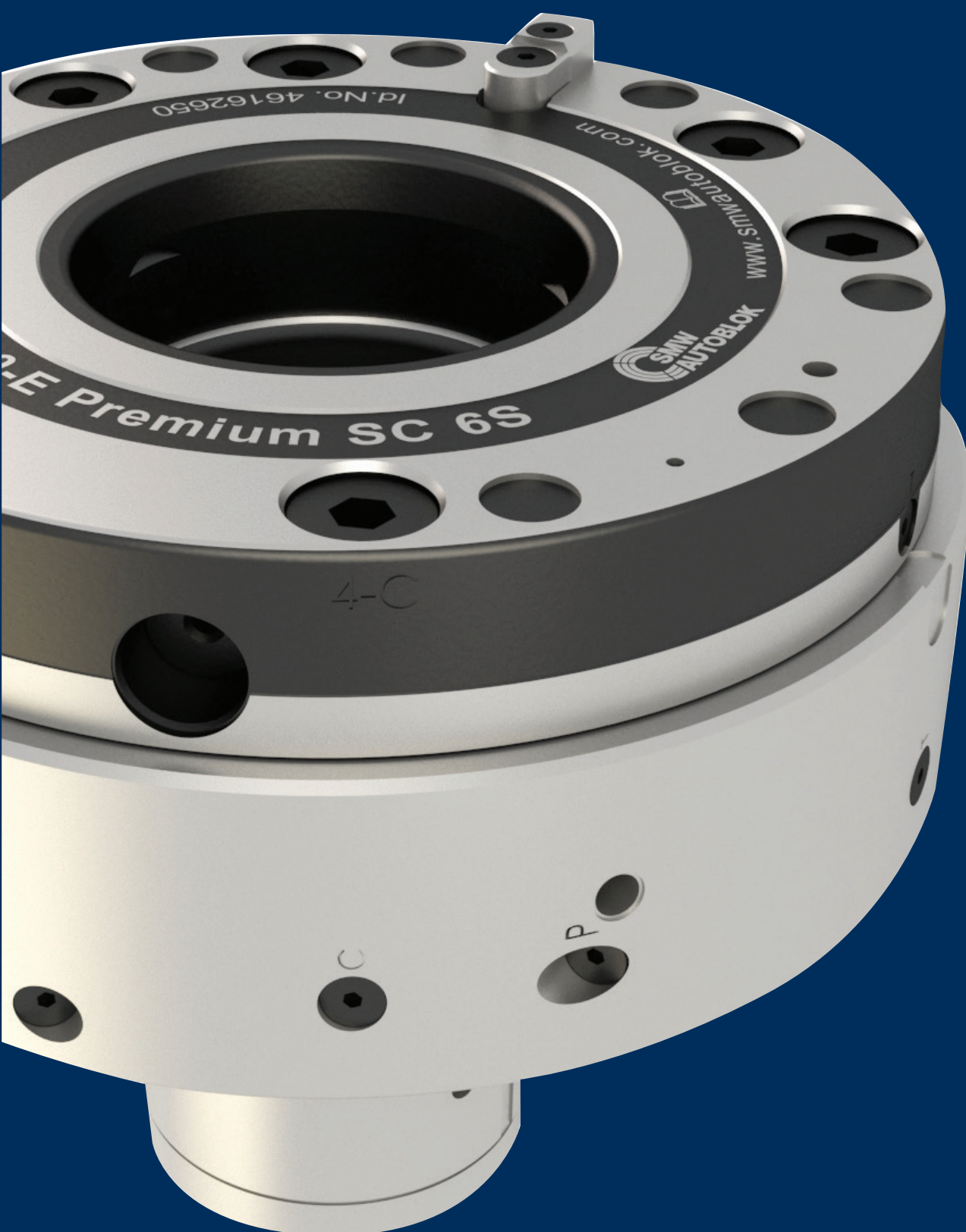


ENGLISH



www.smwautoblok.com

ROTARY PLATE

1-APS MODULES WITH MANUAL OPERATION

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Rotary Plate assembly line	pag.	44
Pipe bundle	pag.	45

3-APS MODULES WITH AUTOMATIC OPERATION + 3 Feedings

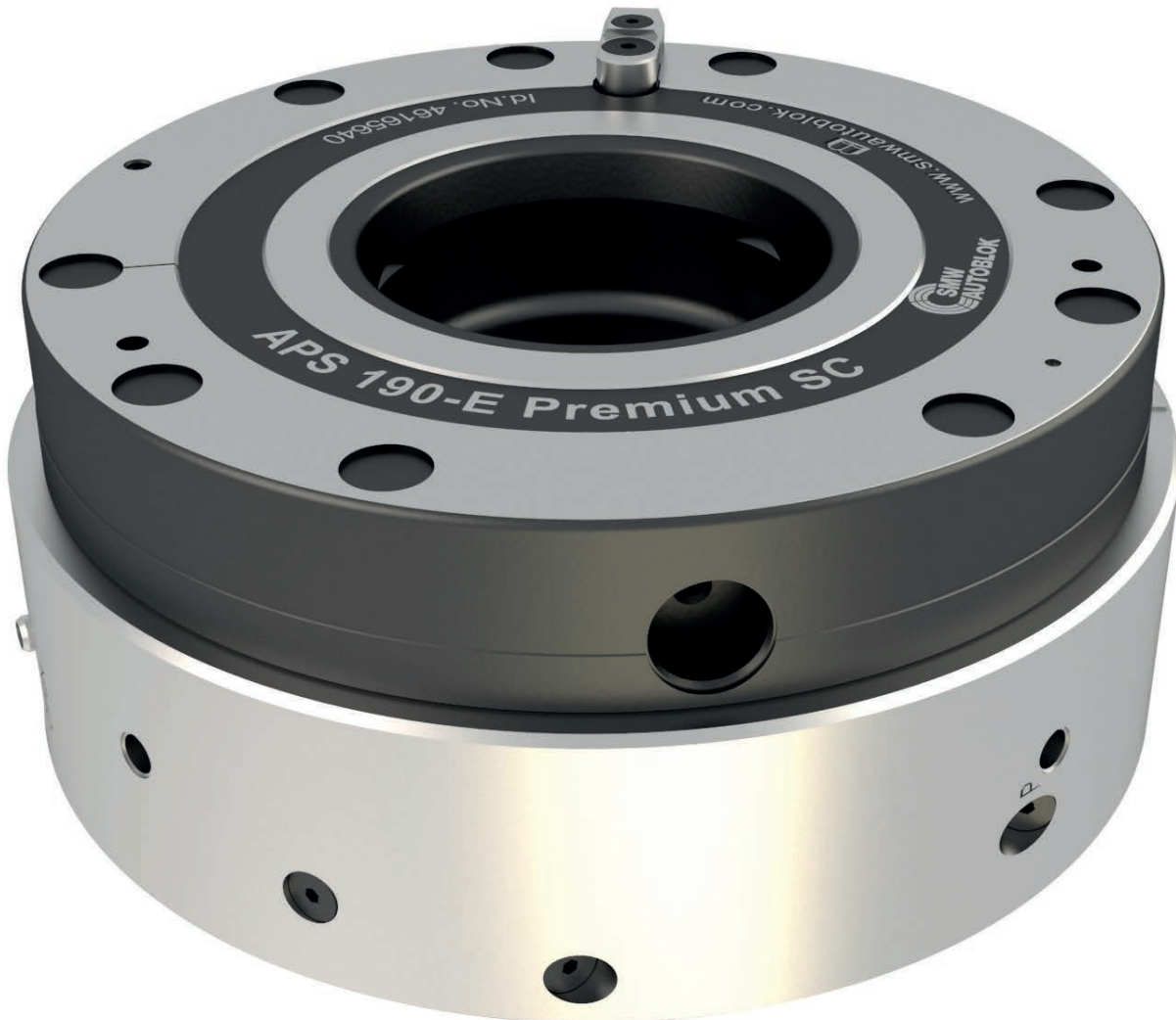
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4-ACCESSORIES

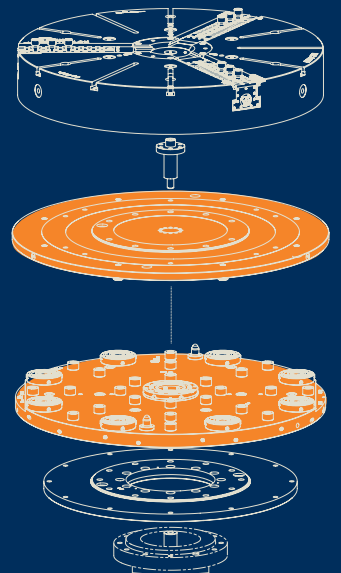
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1

ROTARY PLATE



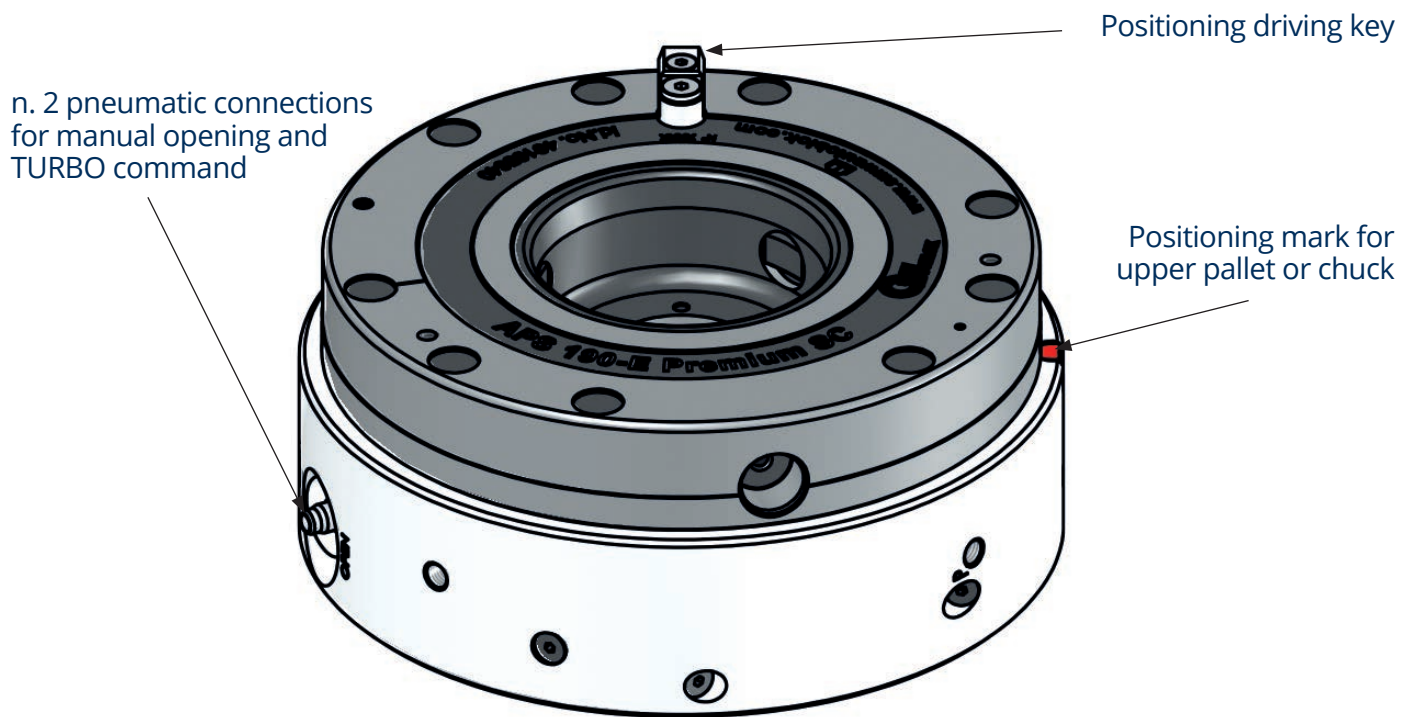
MANUAL OPERATION APS MODULES



ROTARY PLATE Ø202

with APS 190 manual operation

Manual tooling fast set-up for Ø 170 and Ø 210 pallets and chucks



Applications/Customer Benefits

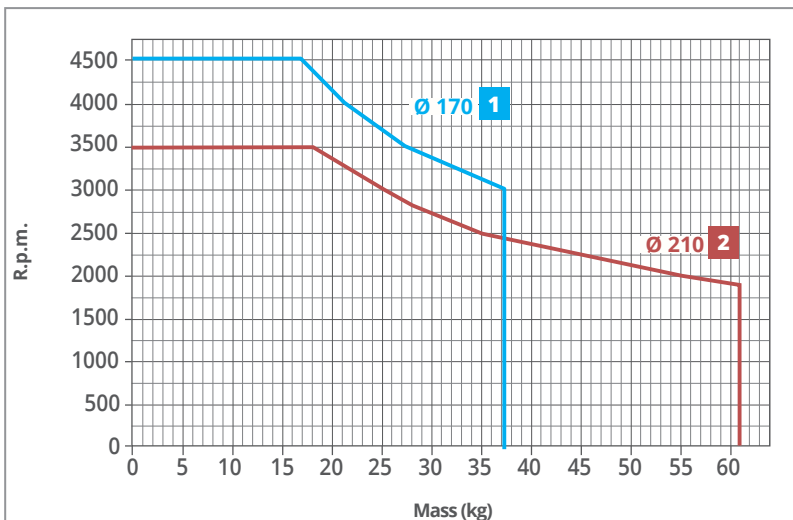
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø170 and Ø210 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES			
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø170 CHUCK MAX RPM (*)	Ø210 CHUCK MAX RPM (**)
Ø202 MANUAL	46220450	0,005 mm	45 kN	6 bar	16	40 kN	20 kN	4500	3500

Weight/Speed diagram



1 (*) Diagram is showing the rpm speed depending from:

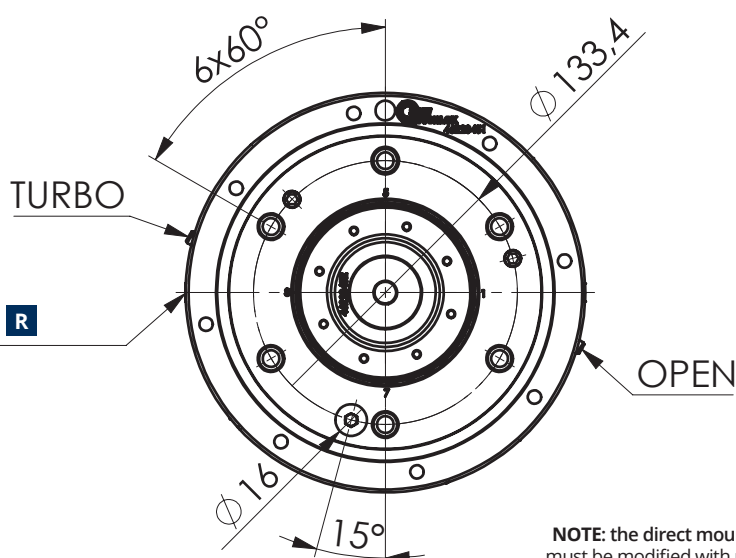
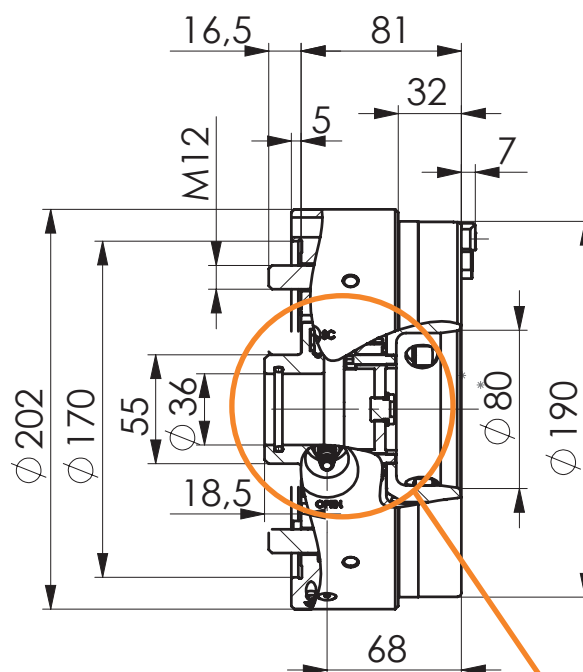
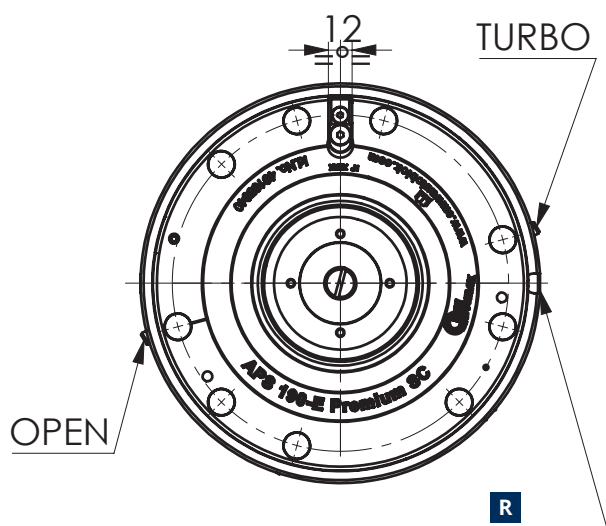
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 170 and 190 mm total length

2 (**) Diagram is showing the rpm speed depending from:

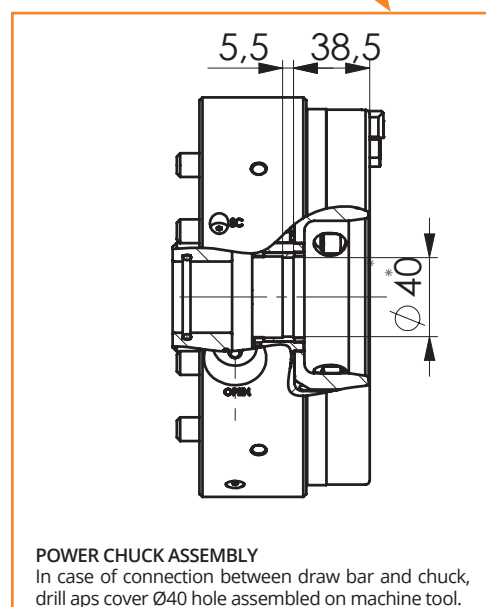
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 210 and 220 mm total length

(*) (**) rpm max speed has to be reduced if used chuck type has lower rpm speed.

R RED MARK



NOTE: the direct mounting flange A6 must be modified with n.6 holes Ø19,5.



POWER CHUCK ASSEMBLY

In case of connection between draw bar and chuck, drill aps cover Ø40 hole assembled on machine tool.

USABLE PALLETS SCHEME WITH ROTARY PLATE Ø202 APS190

Manual tooling fast pallets set-up.

46200055

6,2
Kg

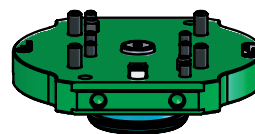
Pallet for Ø125 Ø160 Ø200
SGSF manual chuck



46200270

6,7
Kg

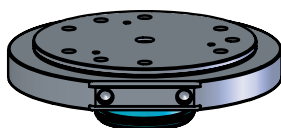
Pallet for Sintex/ST5-2G
IMG vises



Pallet for 160 HG-N
manual chuck

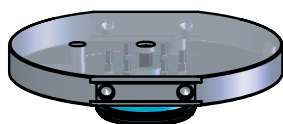
46200092

7,4
Kg



46200015

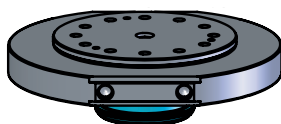
6,8
Kg



Smf Ø208 Pallet

46200093

7,8
Kg



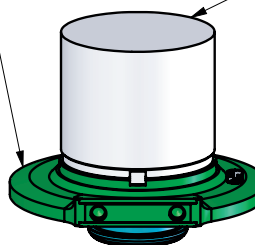
Pallet for 210 HG-N
manual chuck

46200250

5,3
Kg

46200255

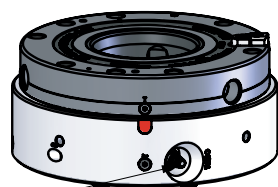
Semifinished
workpiece



Two-pieces
pallet

71612801

G1/8 female quick
connection for pneumatic
manual operation



46220450

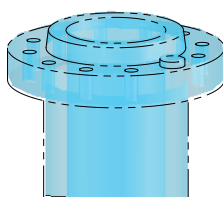
Manual Ø202 Rotary Plate
+ APS 190 module



24xxxxxx

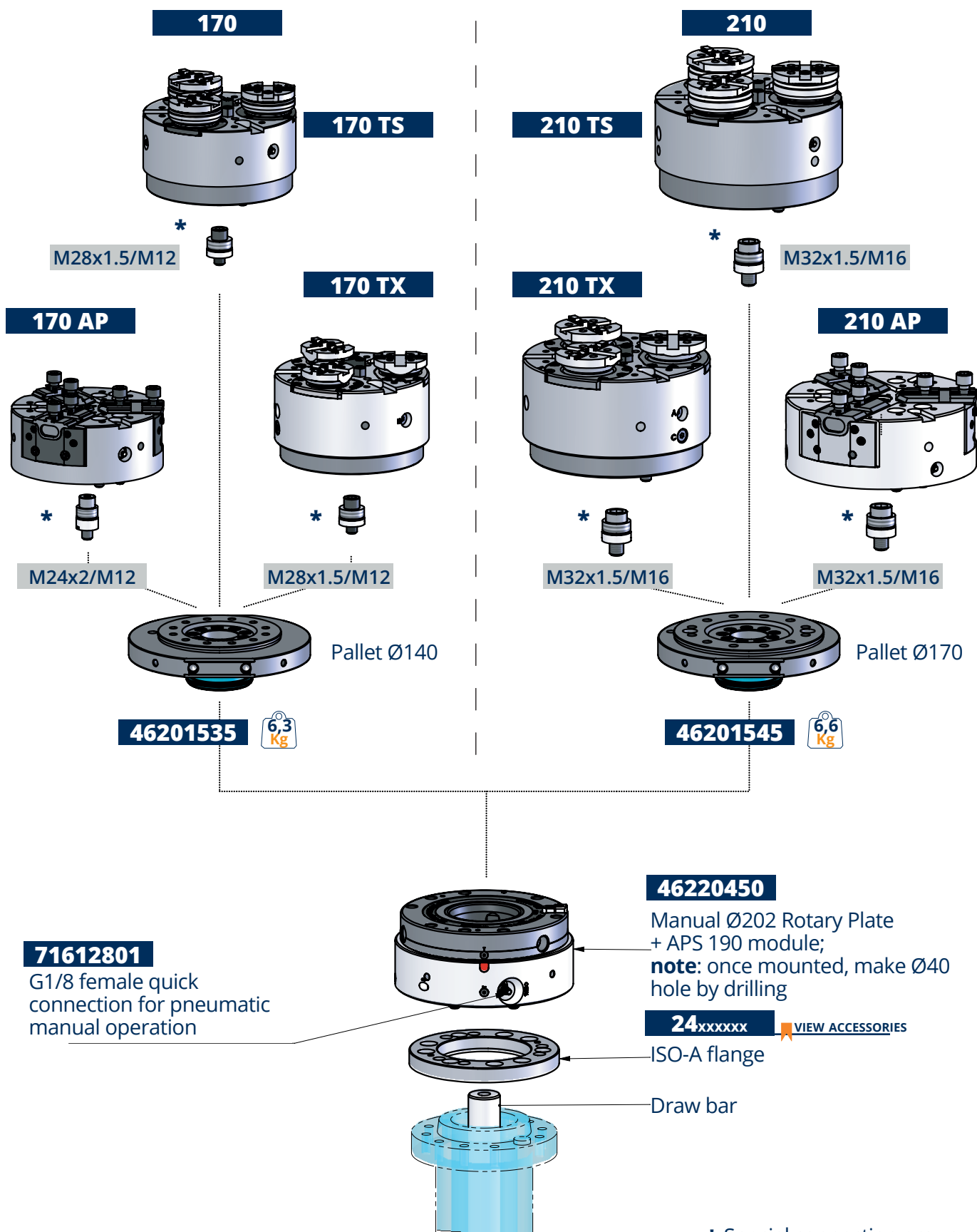
[VIEW ACCESSORIES](#)

ISO-A flange



USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø202 APS190

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.



NOTE: all indicated chucks can have air sensing function as optional

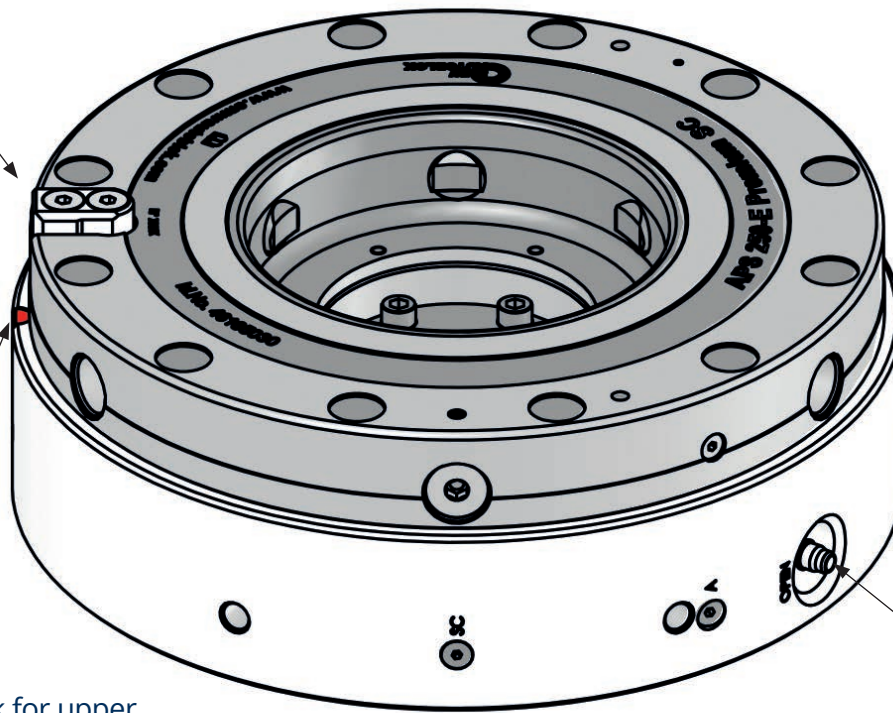
ROTARY PLATE Ø260

with APS 250 manual operation

Manual tooling fast set-up for Ø 210-250 and Ø 315 pallets and chucks

Positioning driving key

Positioning mark for upper pallet or chuck



n. 2 pneumatic connections for manual opening and TURBO command

Applications/Customer Benefits

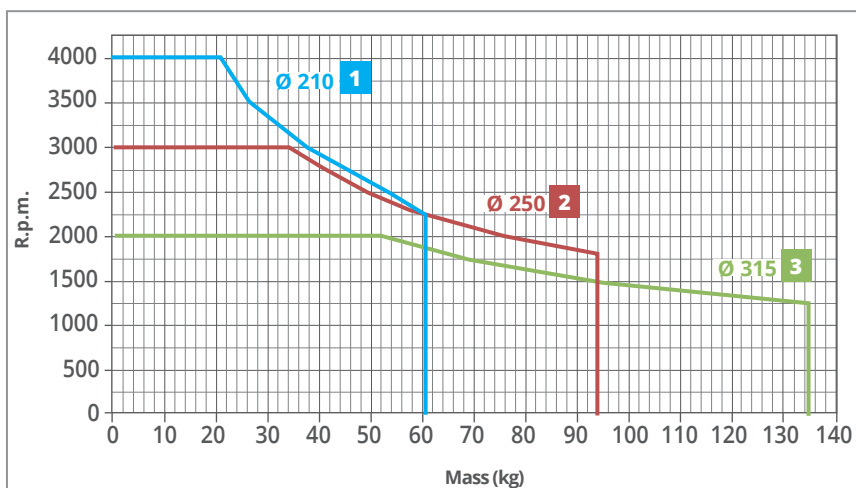
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø210 Ø250 and Ø315 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

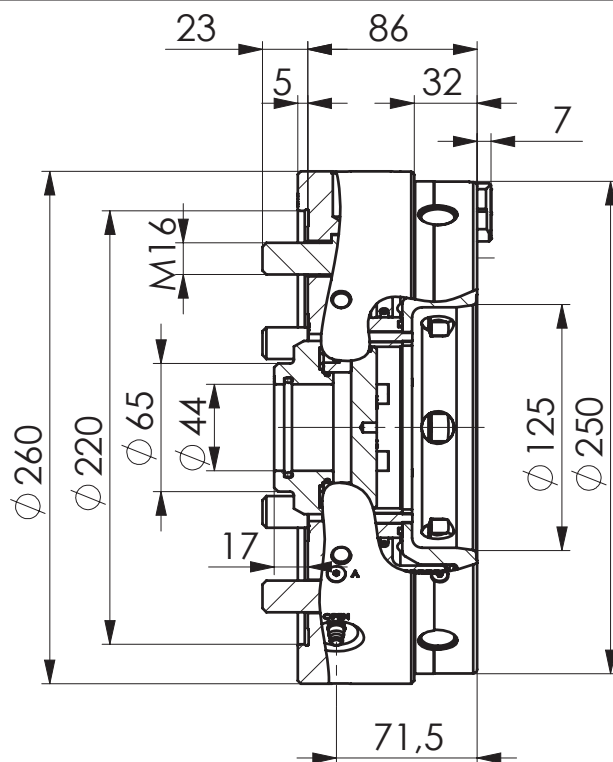
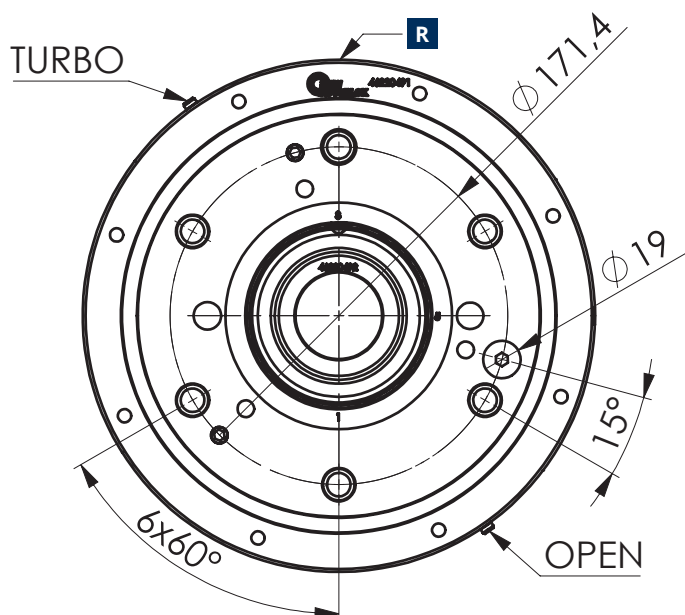
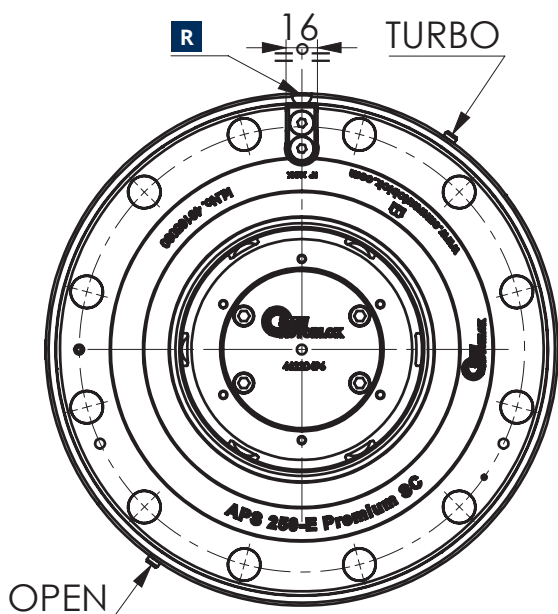
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES				
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø210 CHUCK MAX RPM (*)	Ø250 CHUCK MAX RPM (**)	Ø315 CHUCK MAX RPM (***)
Ø260 MANUAL	46220490	0,005 mm	55 kN	6 bar	28	50 kN	30 kN	4000	3000	2000

Weight/Speed diagram



- 1** (*) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
 - max overall dimension on rotary plate Ø210 and 220 mm total length
- 2** (**) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
 - max overall dimension on rotary plate Ø250 and 250 mm total length
- 3** (***) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
 - max overall dimension on rotary plate Ø315 and 250 mm total length

(*) (**) (***) rpm max speed has to be reduced if used chuck type has lower rpm speed



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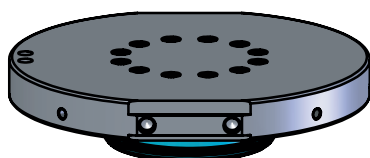
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø260 APS250

Manual tooling fast pallets set-up.

Pallet semifinished
Ø254

46201525

12,2
Kg



Pallet Ø170
for 210 HG-N

46201505

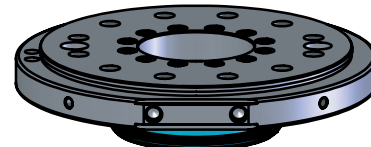
9,5
Kg



Pallet Ø220
for 260 HG-N

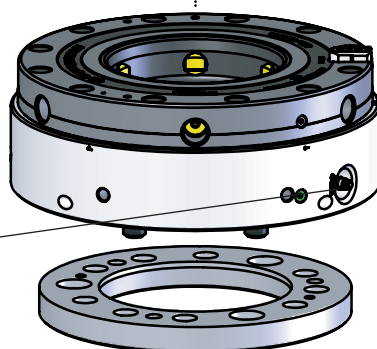
46201515

10,2
Kg



71612801

G1/8 female quick
connection for pneumatic
manual operation



46220490

Manual Ø260 Rotary Plate
+ APS 250 module

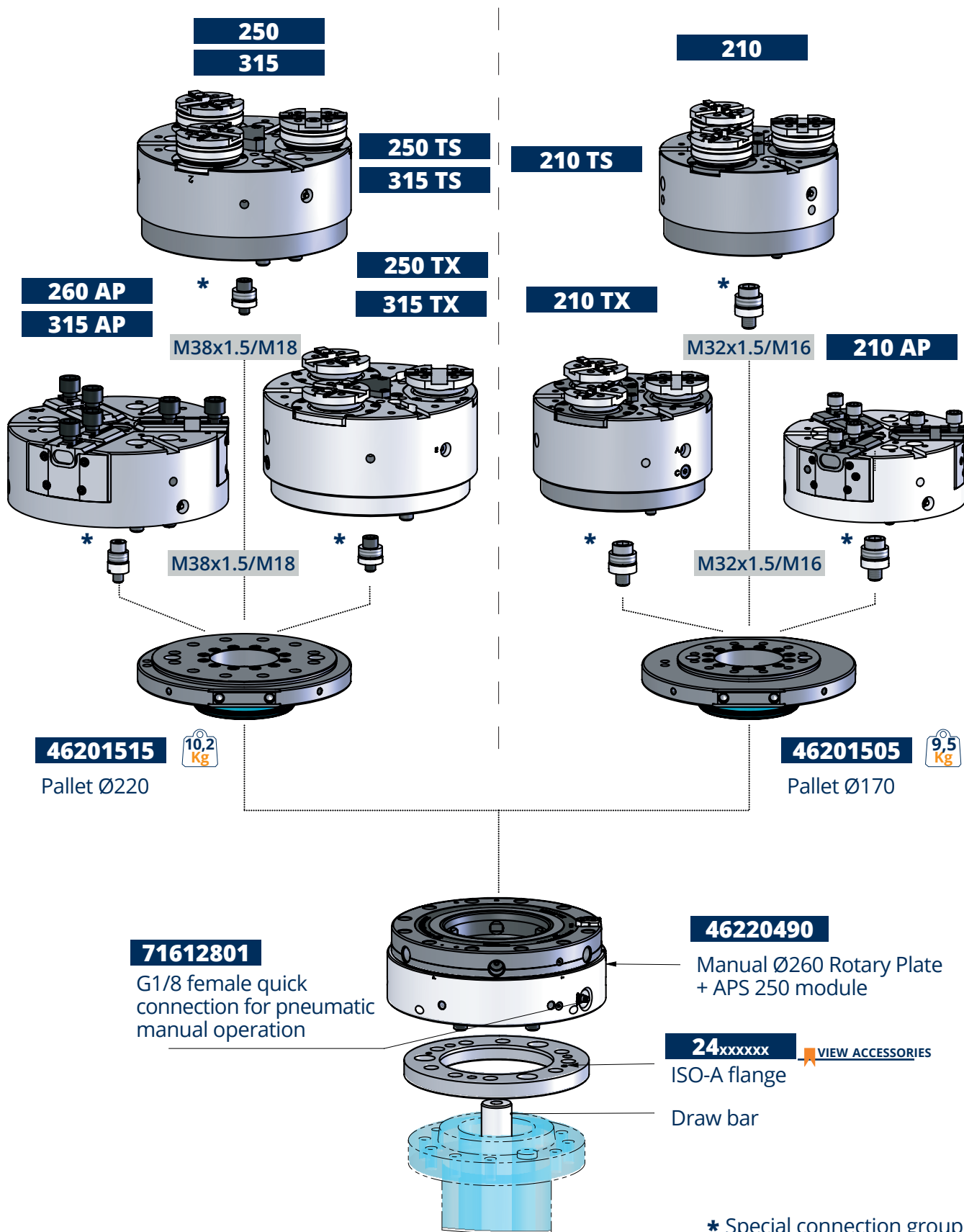
24xxxxxx

[VIEW ACCESSORIES](#)

ISO-A flange

USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø260 APS250

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.



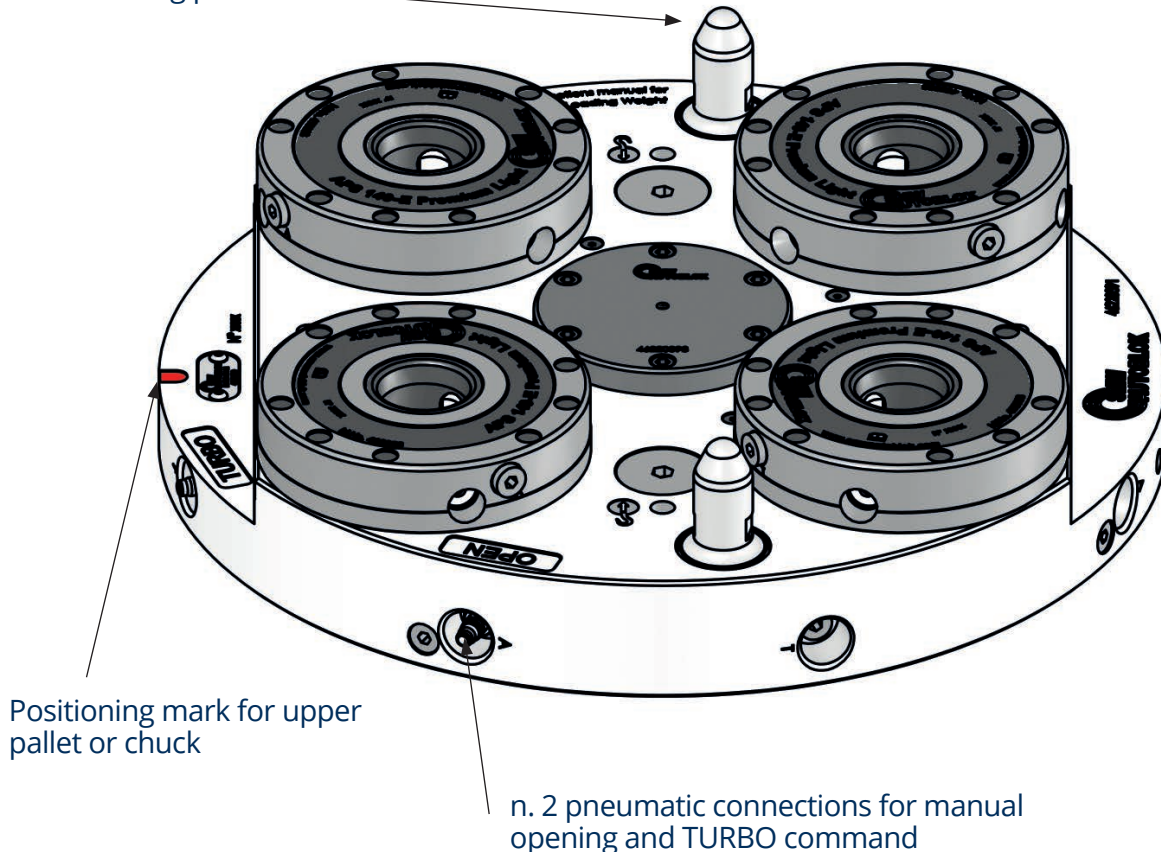
NOTE: all indicated chucks can have air sensing function as optional

ROTARY PLATE Ø420

with 4 APS 140 manual operation

Manual tooling fast set-up for Ø 400 pallets and chucks

Pre-centering pins



Applications/Customer Benefits

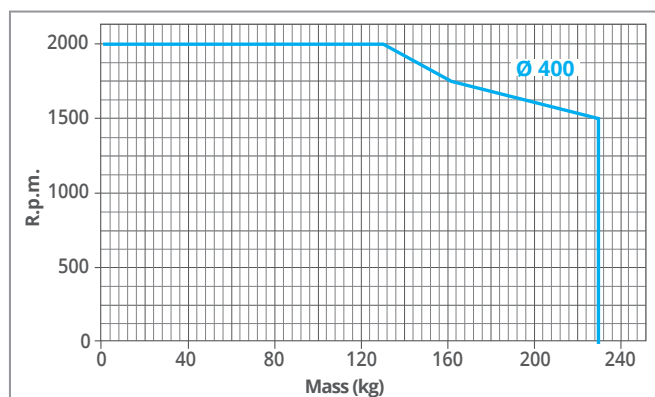
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø400 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES		
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø400 CHUCK MAX RPM (*)
Ø420 MANUAL	46220390	0,005 mm	104 kN	6 bar	65	70 kN	40 kN	2000

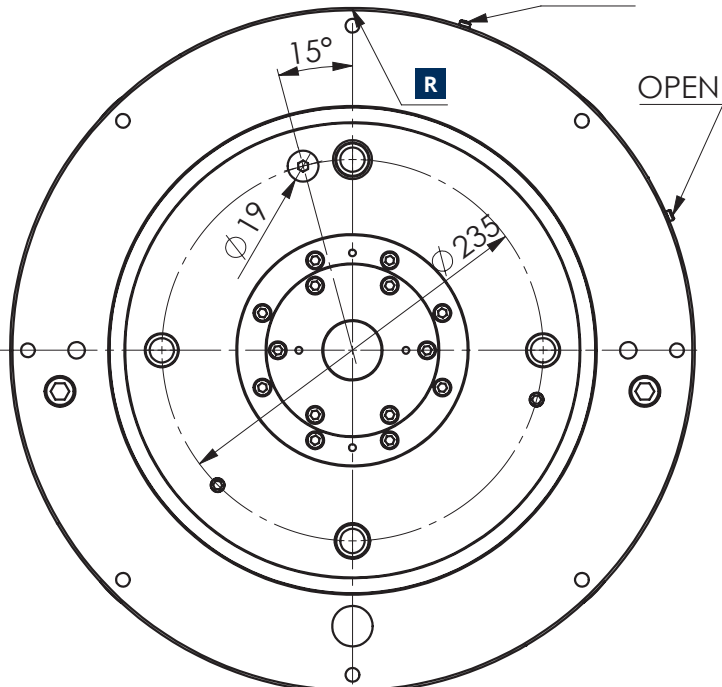
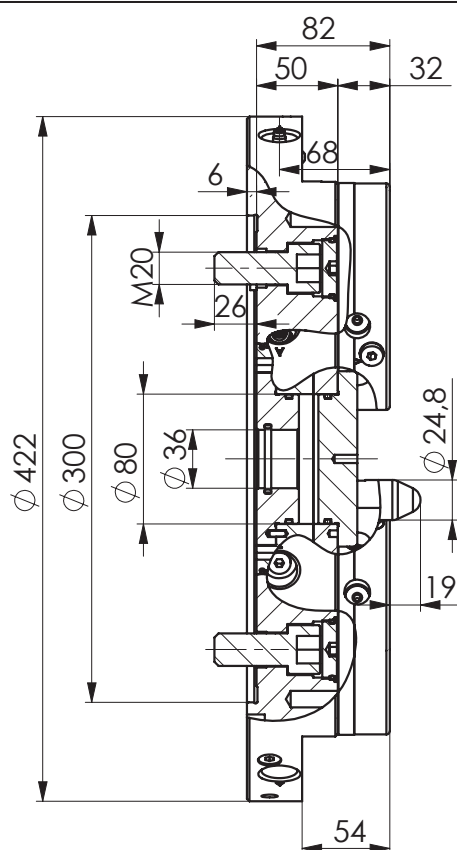
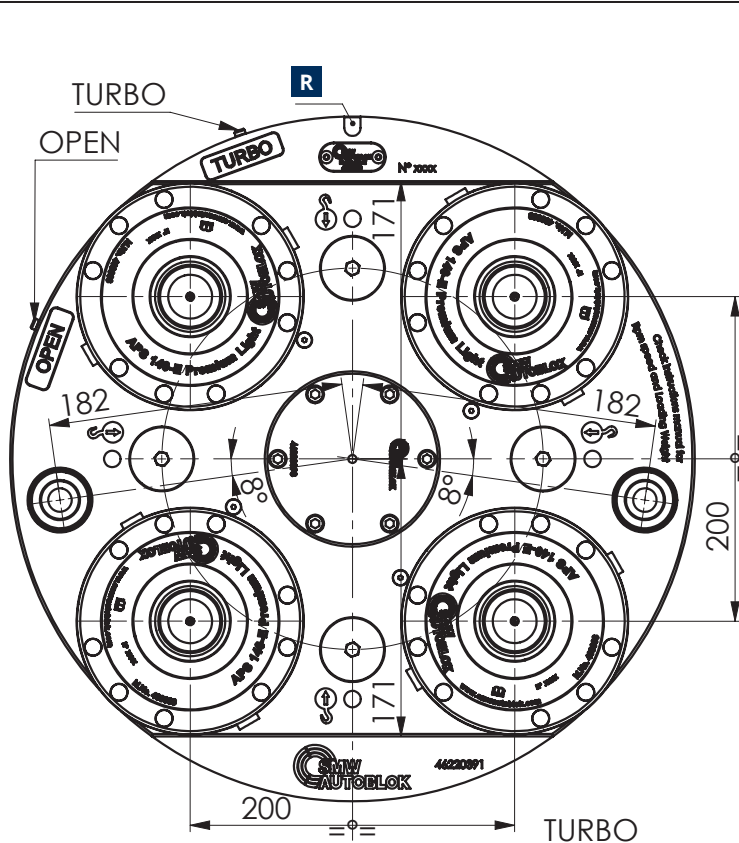
Weight/Speed diagram



(*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate
(pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate
Ø 420 and 300 mm total length

(*) rpm max speed has to be reduced if used chuck type has lower rpm speed



R RED MARK

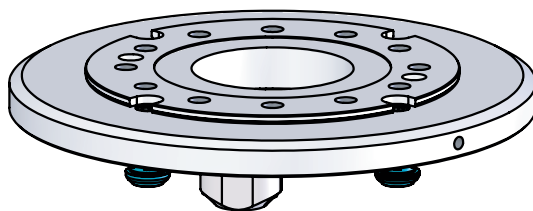
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø420 4APSI40

Manual tooling fast pallets set-up.

46220550



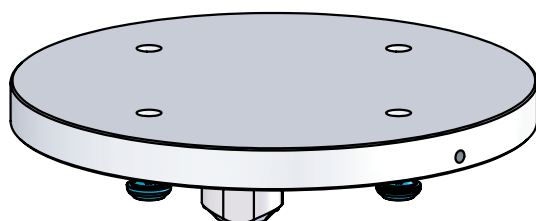
Pallet Ø300 for 315 HG-N



46220200



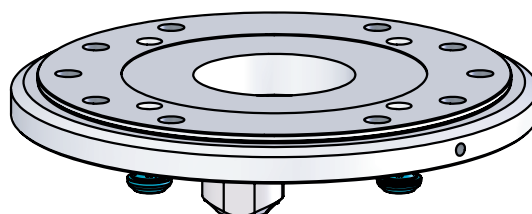
Smf Pallet Ø420



46220540

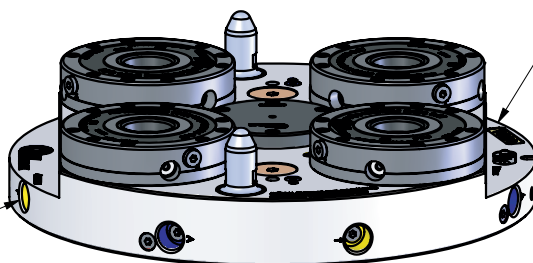


Pallet Ø380 for 400 HG-N



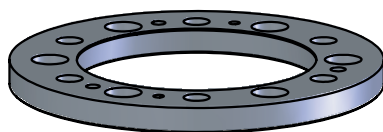
71612801

G1/8 female quick connection for pneumatic manual operation



46220390

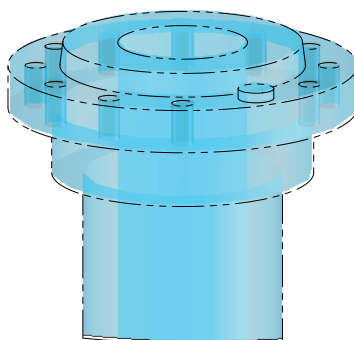
Manual Ø420 Rotary Plate + 4APS 140 module



24xxxxxx

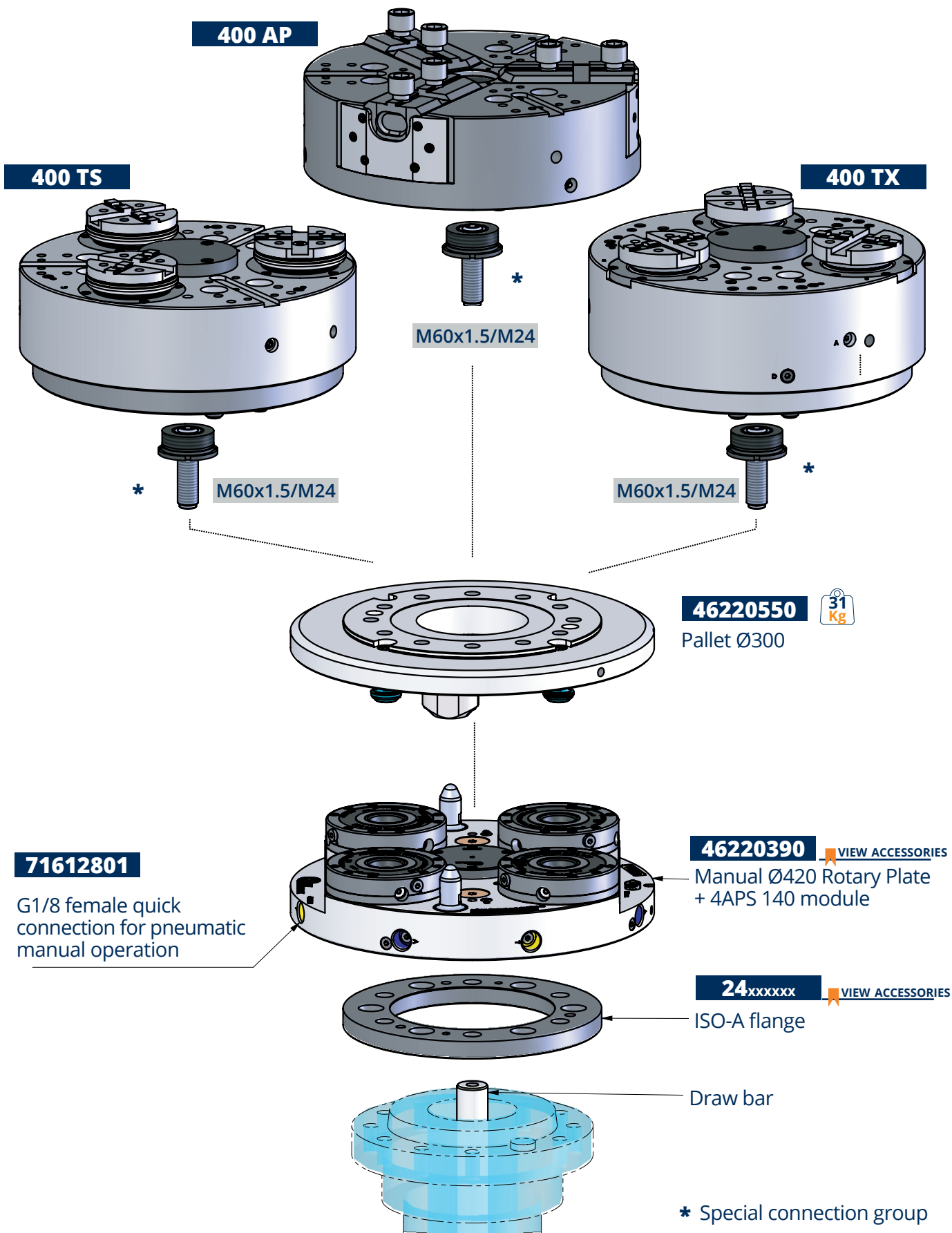
[VIEW ACCESSORIES](#)

ISO-A flange



USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø420 4APS140

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.



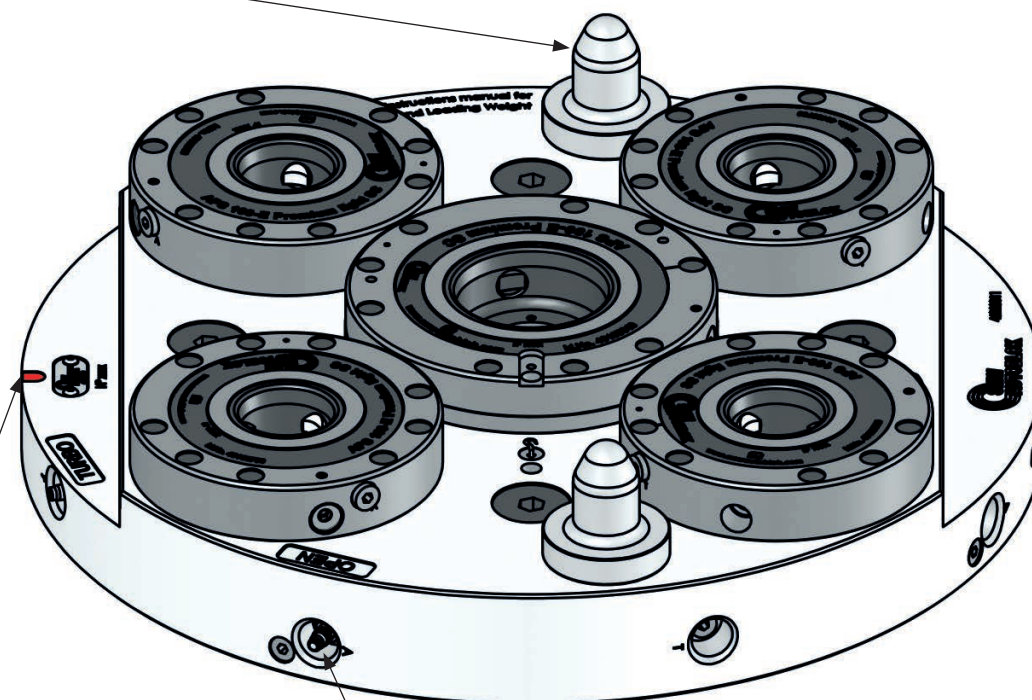
NOTE: all indicated chucks can have air sensing function as optional

ROTARY PLATE Ø520

with APS 190 and 4 APS 160 manual operation

Manual tooling fast set-up for Ø 500 and Ø 650 pallets and chucks

Pre-centering pins



Positioning mark for upper pallet or chuck

n. 2 pneumatic connections for manual opening and TURBO command

Applications/Customer Benefits

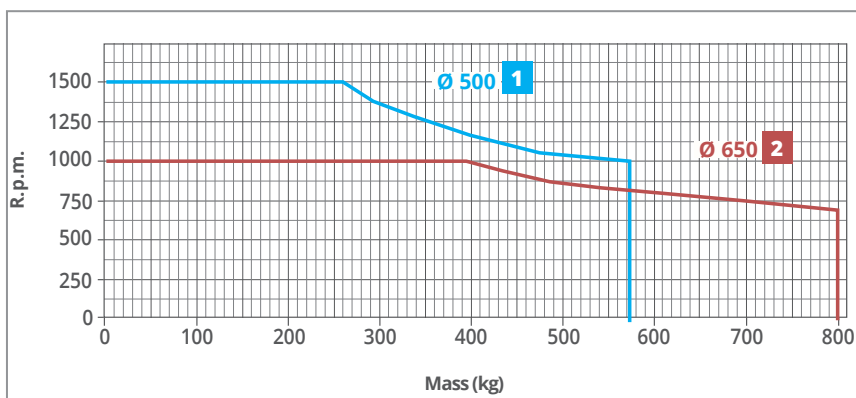
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø500 and Ø650 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES			
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø500 CHUCK MAX RPM (*)	Ø650 CHUCK MAX RPM (**)
Ø520 MANUAL	46220010	0,005 mm	165 kN	6 bar	113	100 kN	60 kN	1500	1000

Weight/Speed diagram



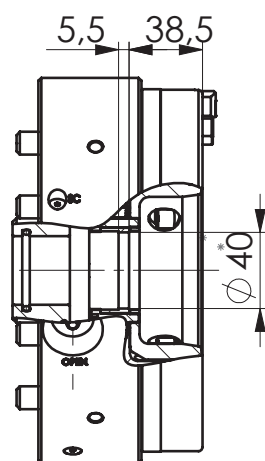
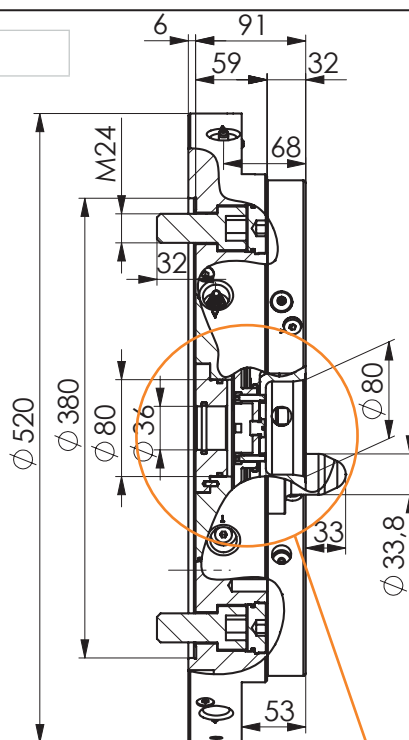
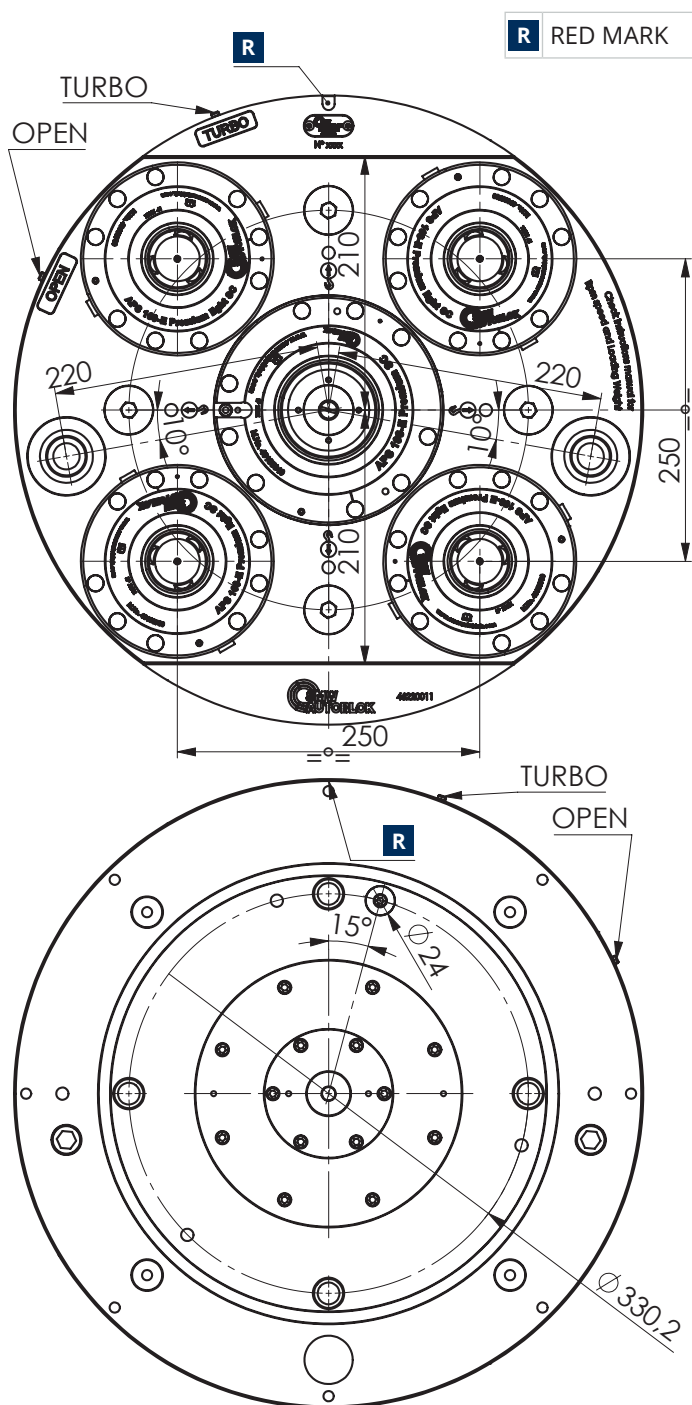
1 (*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 520 and 400 mm total length

2 (**) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 650 and 450 mm total length

(*) (**) rpm max speed has to be reduced if used chuck type has lower rpm speed



POWER CHUCK ASSEMBLY

In case of connection between draw bar and chuck, drill aps cover Ø40 hole assembled on machine tool.

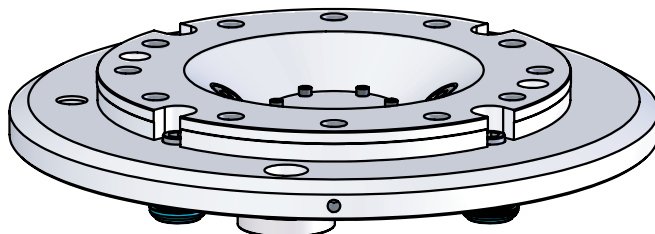
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø520 APS190 + 4APS 160

Manual tooling fast pallets set-up.

46220050



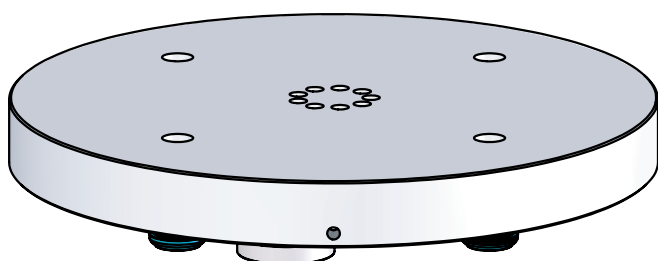
Pallet Ø380 for 500 and 630 HG-N



46220280



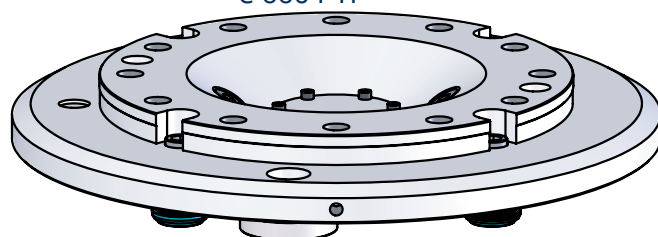
Smf Pallet Ø520



46220050

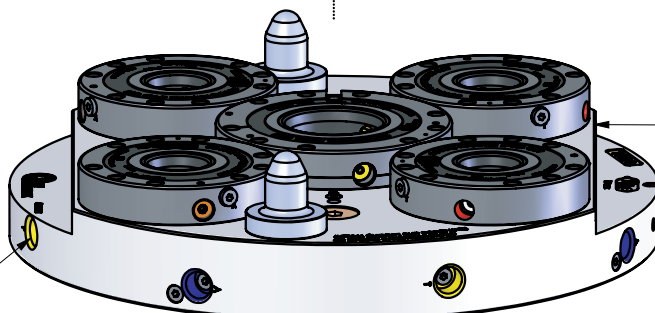


Pallet Ø380 for 530 PTF
e 660 PTF



71612801

G1/8 female quick
connection for pneumatic
manual operation



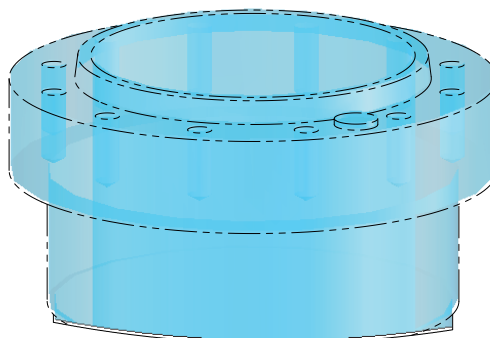
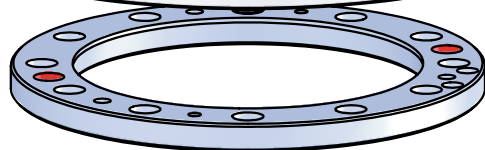
46220010

Manual Ø520
Rotary Plate
+ APS 190
+ 4APS 160 module

24xxxxxx

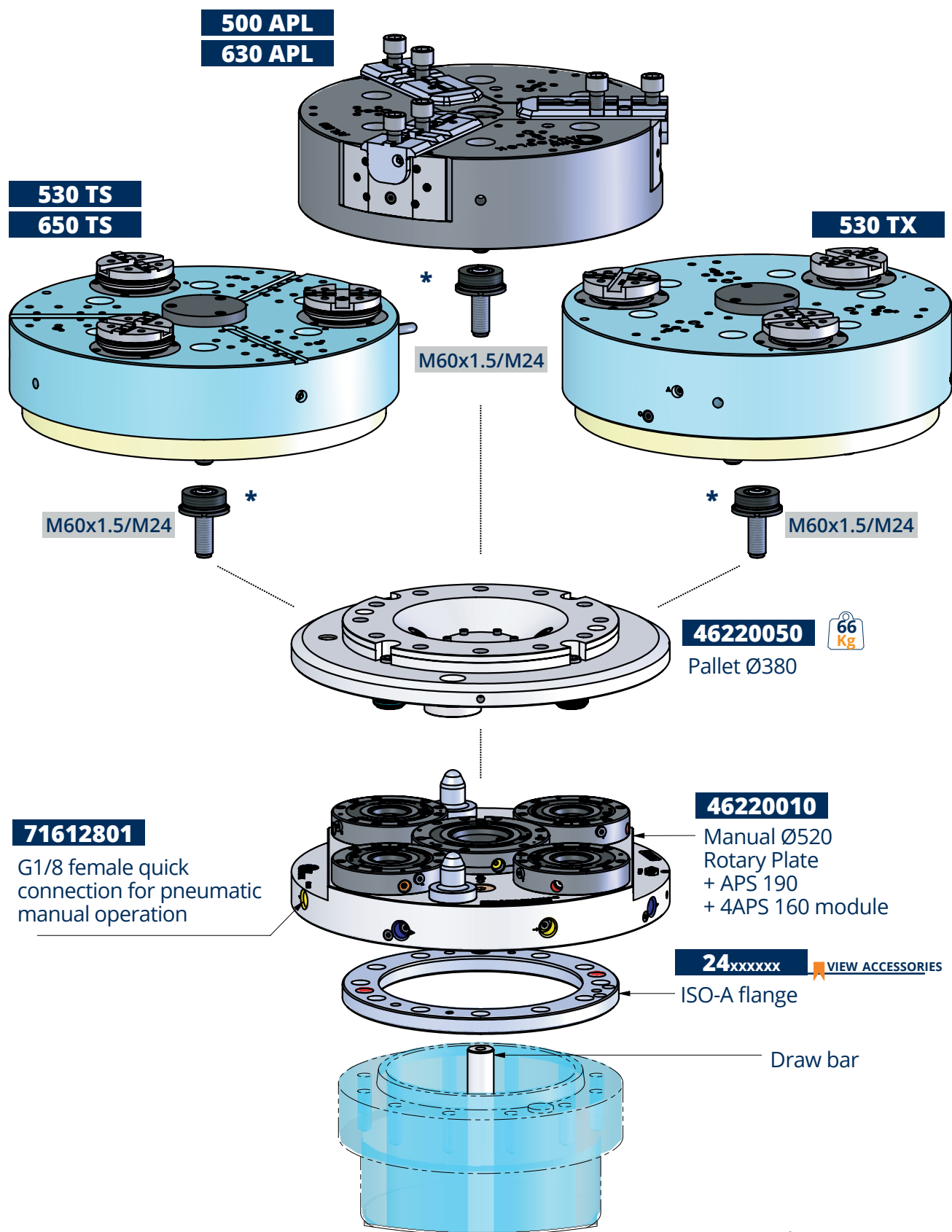
[VIEW ACCESSORIES](#)

ISO-A flange



USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø520 APS190 + 4APS 160

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.



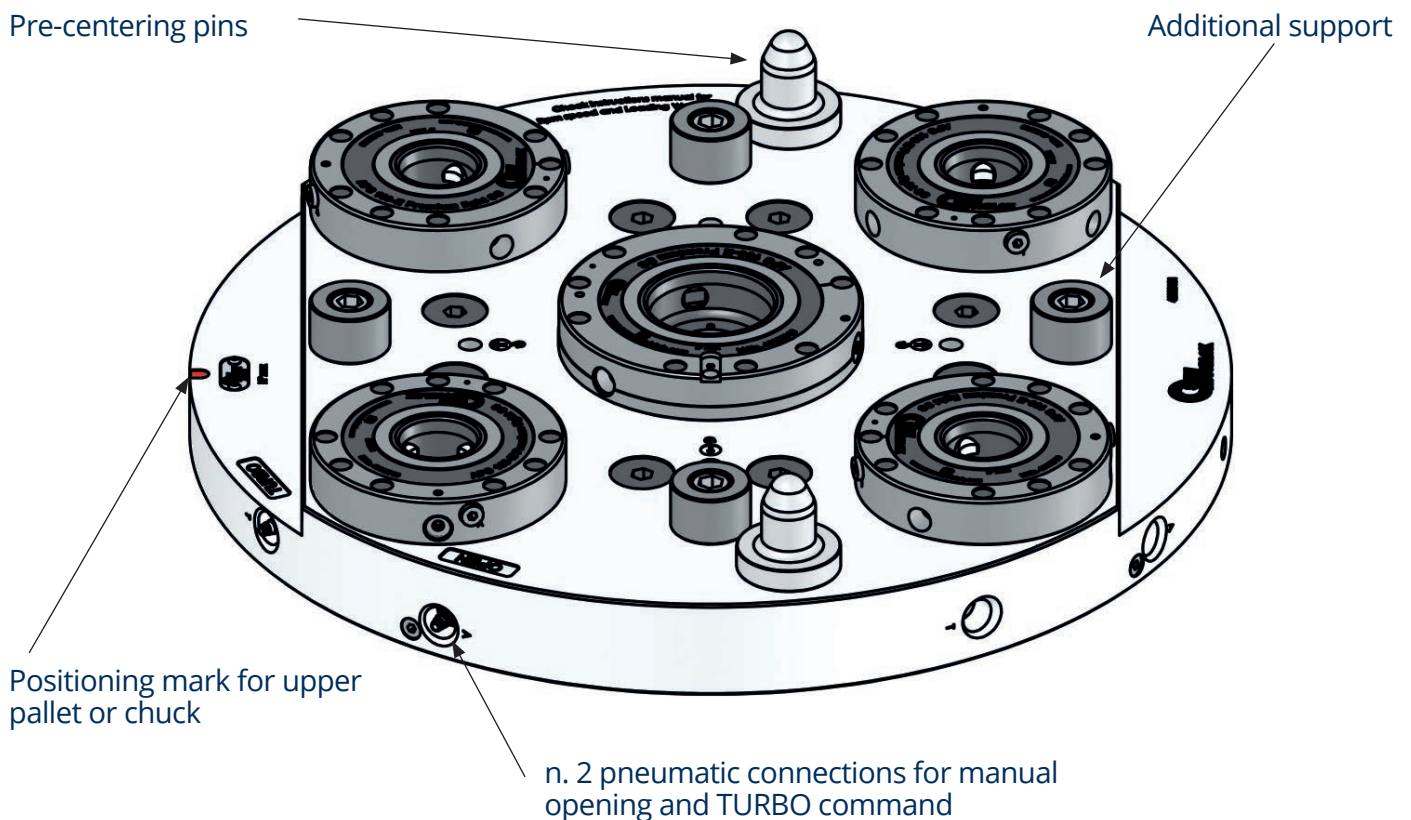
* Special connection group

NOTE: all indicated chucks can have air sensing function as optional

ROTARY PLATE Ø650

with APS 190 and 4 APS 160 manual operation

Manual tooling fast set-up for Ø 650 and Ø 800 pallets and chucks



Applications/Customer Benefits

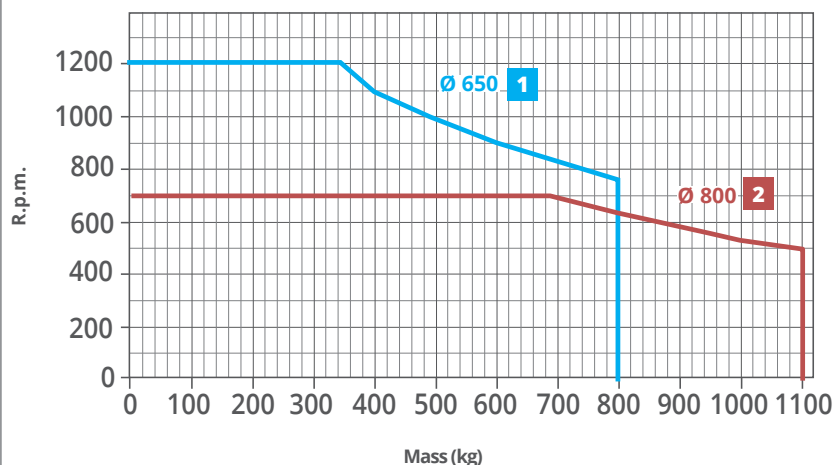
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø650 and Ø800 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

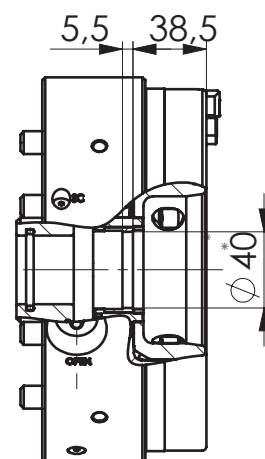
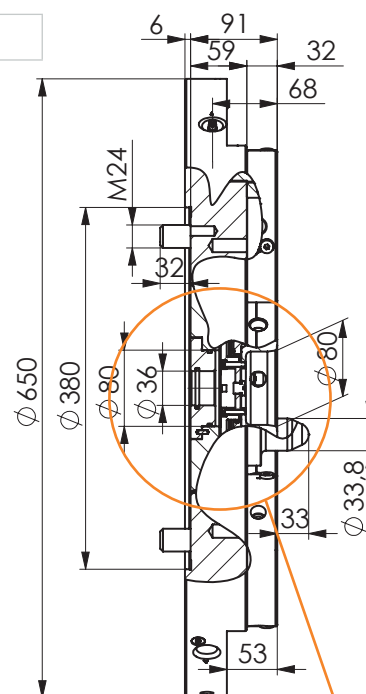
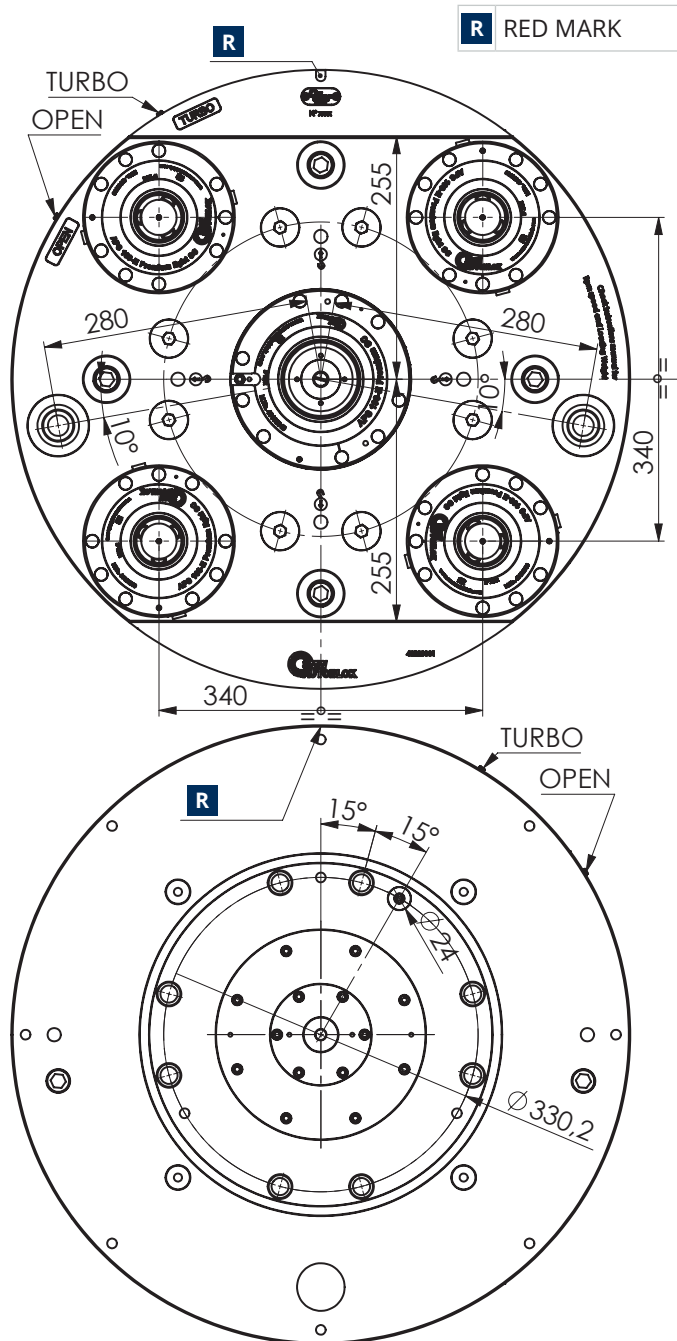
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES			
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø650 CHUCK MAX RPM (*)	Ø800 CHUCK MAX RPM (**)
Ø650 MANUAL	46220100	0,005 mm	165 kN	6 bar	170	100 kN	60 kN	1200	700

Weight/Speed diagram



- 1 (*) Diagram is showing the rpm speed depending from:
 - **total max weight on rotary plate**
(*pallet + chuck or fixture + workpiece*).
 - **max overall dimension on rotary plate**
Ø 650 and 450 mm total length
- 2 (**) Diagram is showing the rpm speed depending from:
 - **total max weight on rotary plate**
(*pallet + chuck or fixture + workpiece*).
 - **max overall dimension on rotary plate**
Ø 800 and 450 mm total length

(*) (**) rpm max speed has to be reduced if used chuck type has lower rpm speed



POWER CHUCK ASSEMBLY

POWER CHUCK ASSEMBLY
In case of connection between draw bar and chuck,
drill apcs cover Ø40 hole assembled on machine tool.

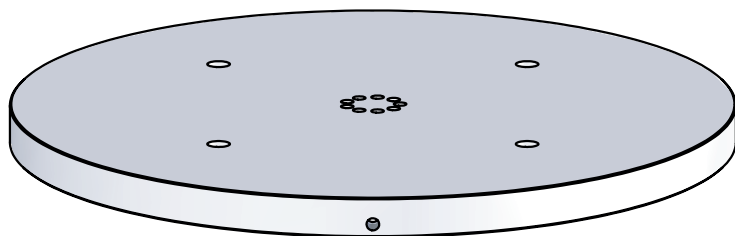
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø650 APS190 + 4APS 160

Manual tooling fast pallets set-up.

46220300



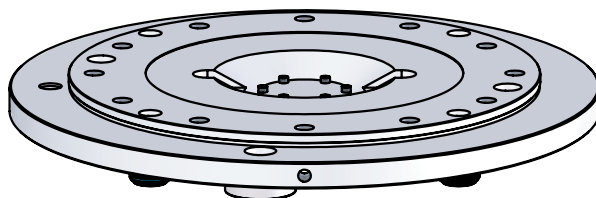
Smf Pallet Ø800



46220180



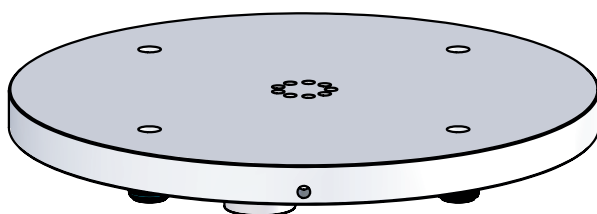
Pallet Ø520 for 800 PTF and 800 HG-NB



46220290



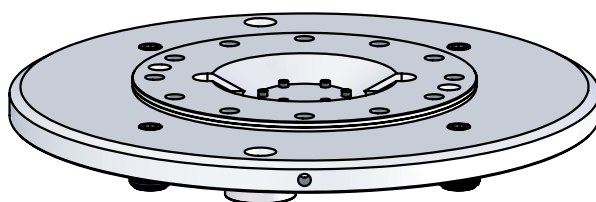
Smf Pallet Ø650



46220060

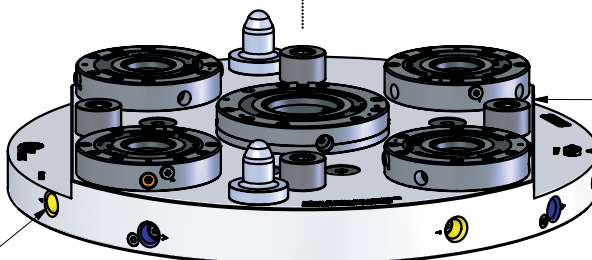


Pallet Ø380 for 660 PTF and 630 HG



71612801

G1/8 female quick connection for pneumatic manual operation



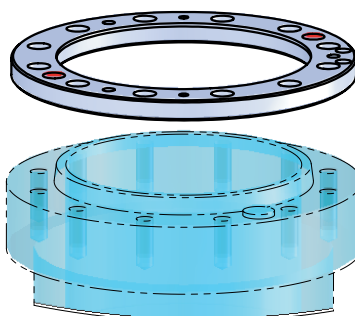
46220100

Manual Ø650 Rotary Plate + APS 190 + 4 APS 160 module

24xxxxxx

[VIEW ACCESSORIES](#)

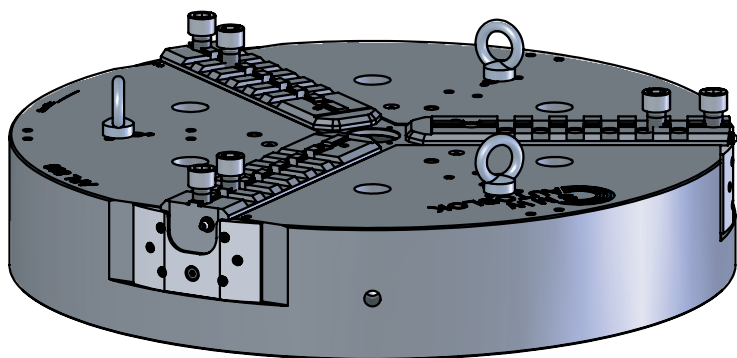
ISO-A flange



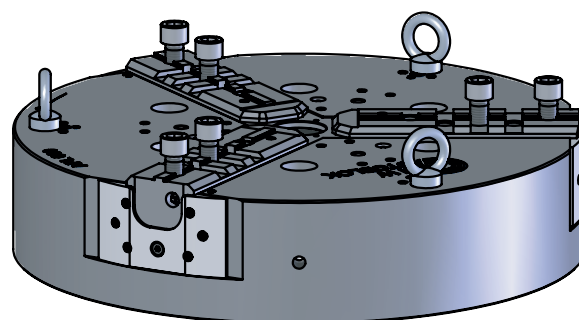
USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø650 APS190 + 4APS 160

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.

800 APL



630 APL **



46220180

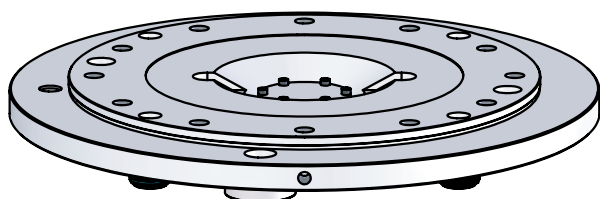
99
Kg

*



M60x1.5/M24

Pallet Ø520



M60x1.5/M24

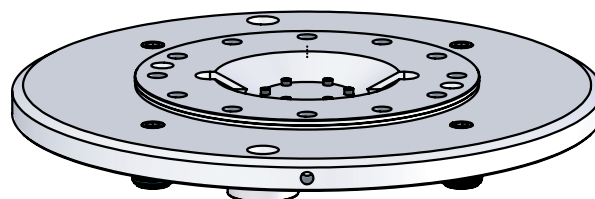


*

46220060

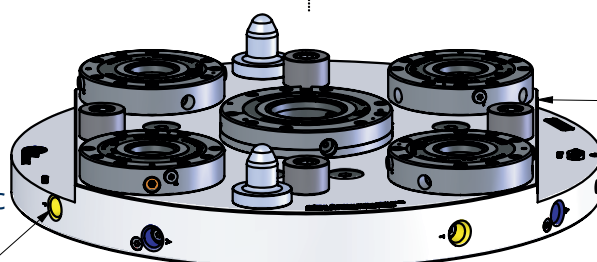
95
Kg

Pallet Ø380



71612801

G1/8 female quick
connection for pneumatic
manual operation

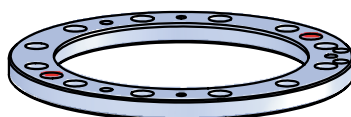


46220100

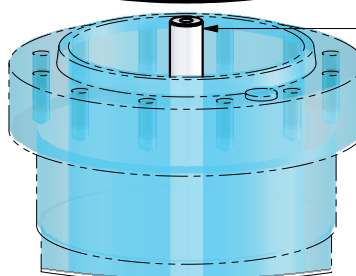
Manual Ø650
Rotary Plate
+ APS 190
+ 4 APS 160 module

24xxxxxx

[VIEW ACCESSORIES](#)



ISO-A flange



Draw bar

* Special connection group

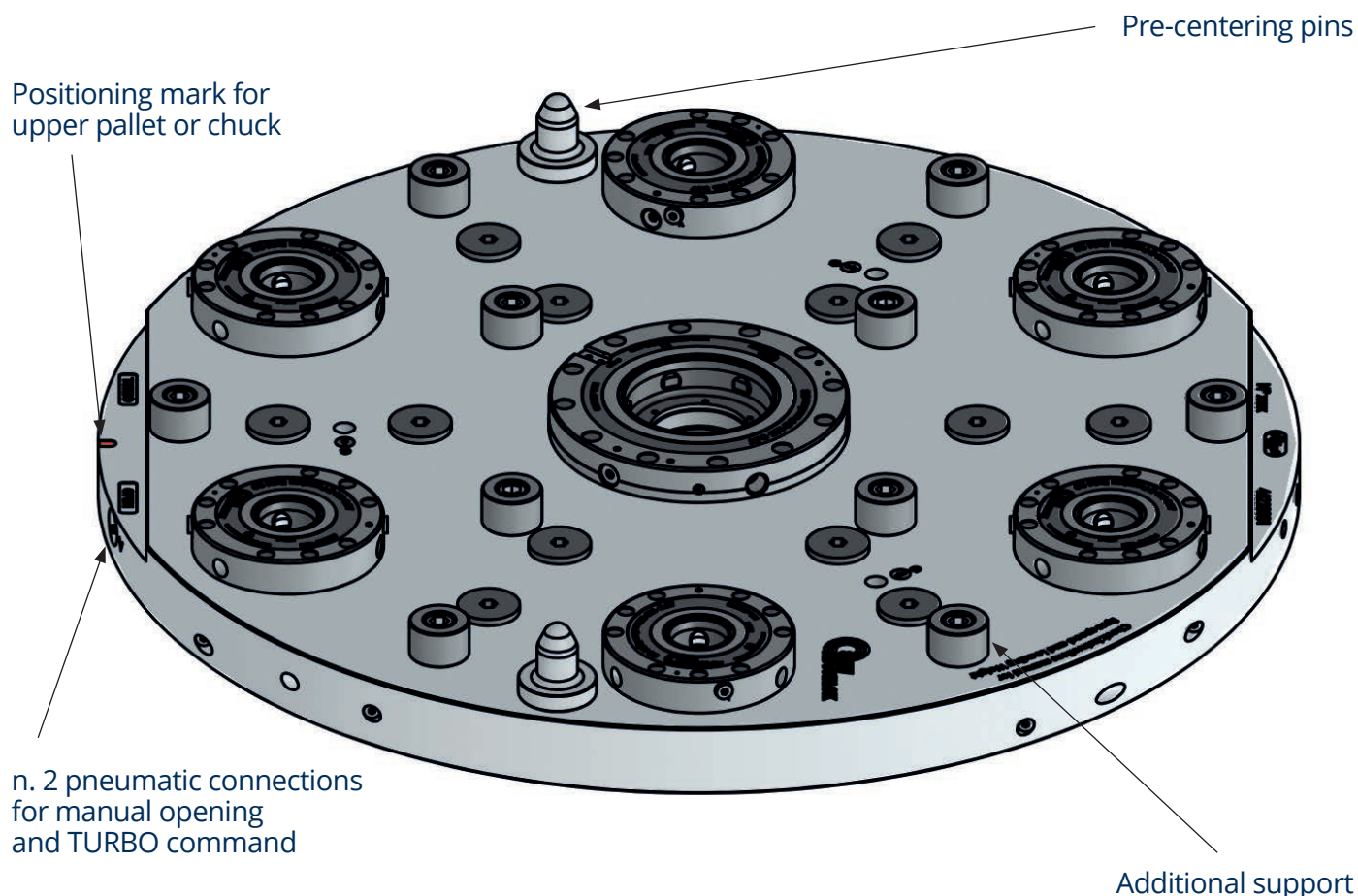
** By special pallet, **650 TS** chuck can be assembled

NOTE: all indicated chucks can have air sensing function as optional

ROTARY PLATE Ø1000

with APS 250 and 6 APS 160 manual operation

Manual tooling fast set-up for Ø 1000 and Ø 1250 pallets and chucks



Applications/Customer Benefits

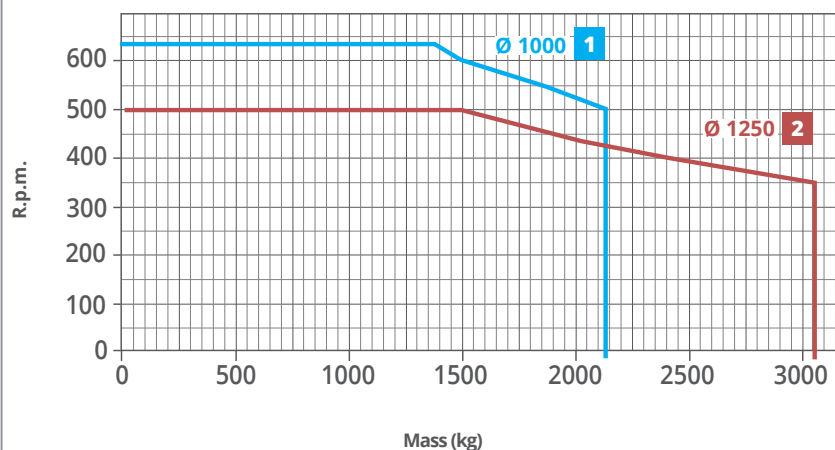
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø1000 and Ø1250 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES			
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø1000 CHUCK MAX RPM (*)	Ø1250 CHUCK MAX RPM (**)
Ø1000 MANUAL	46220030	0,005 mm	235 kN	6 bar	400	180 kN	110 kN	630	500

Weight/Speed diagram



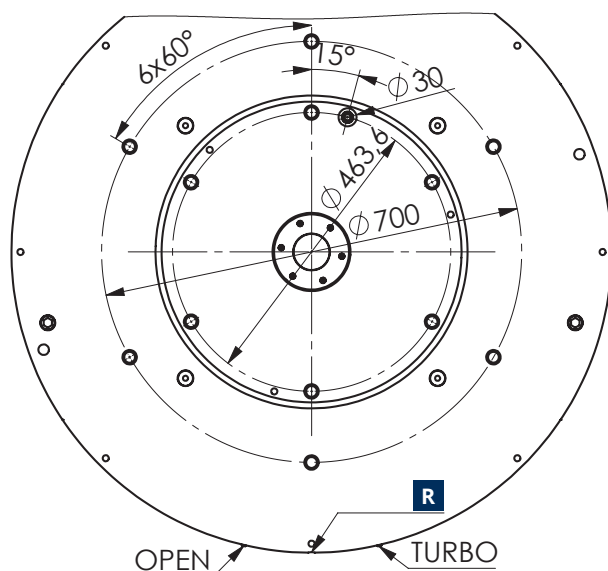
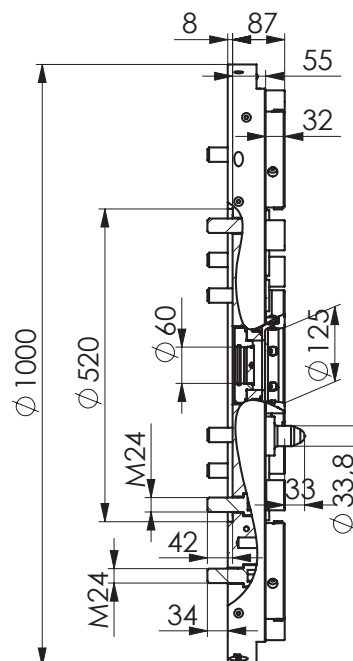
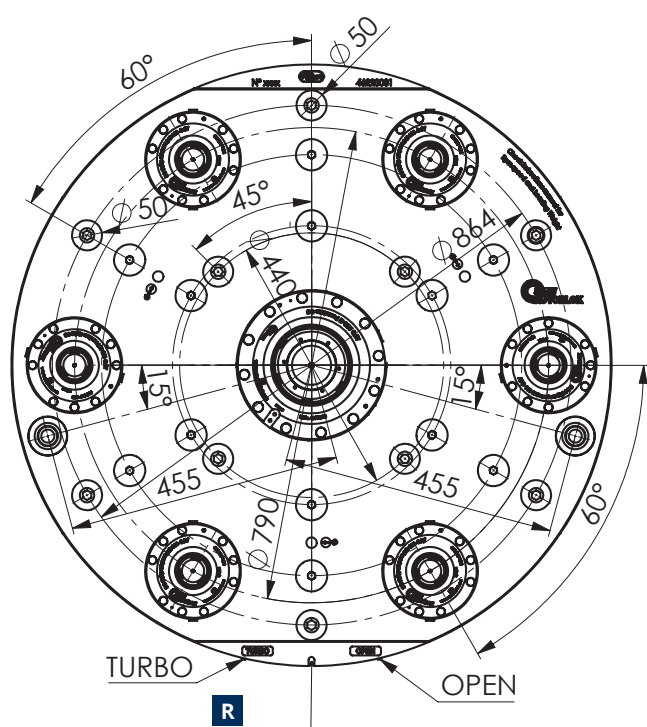
1 (*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 1000 and 450 mm total length

2 (**) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 1250 and 450 mm total length

(*) (**) rpm max speed has to be reduced if used chuck type has lower rpm speed



R RED MARK

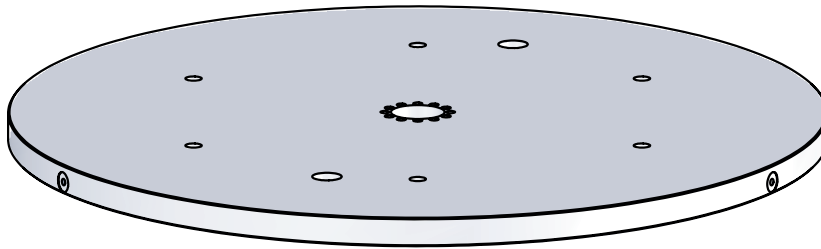
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø1000 APS250 + 6 APS 160

Manual tooling fast pallets set-up.

46220320



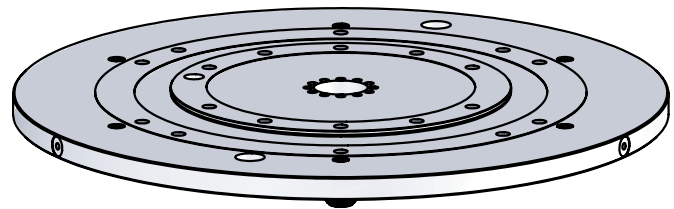
Smf Pallet Ø1250



46220070



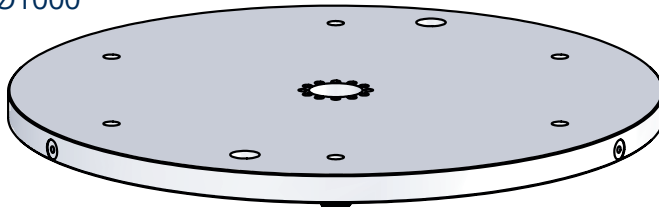
Pallet Ø520 for 1000 PTF,
1250 PTF and 800 HG



46220310



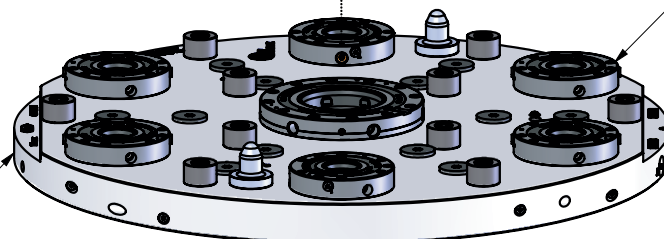
Smf Pallet Ø1000



note: for 1000 HG chuck,
special pallet to be required

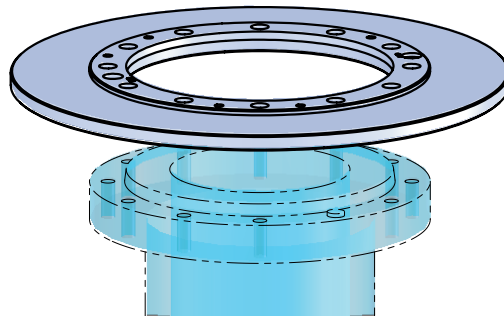
46220030

Manual Ø1000
Rotary Plate
+ APS 250
+ 6 APS 160 module



71612801

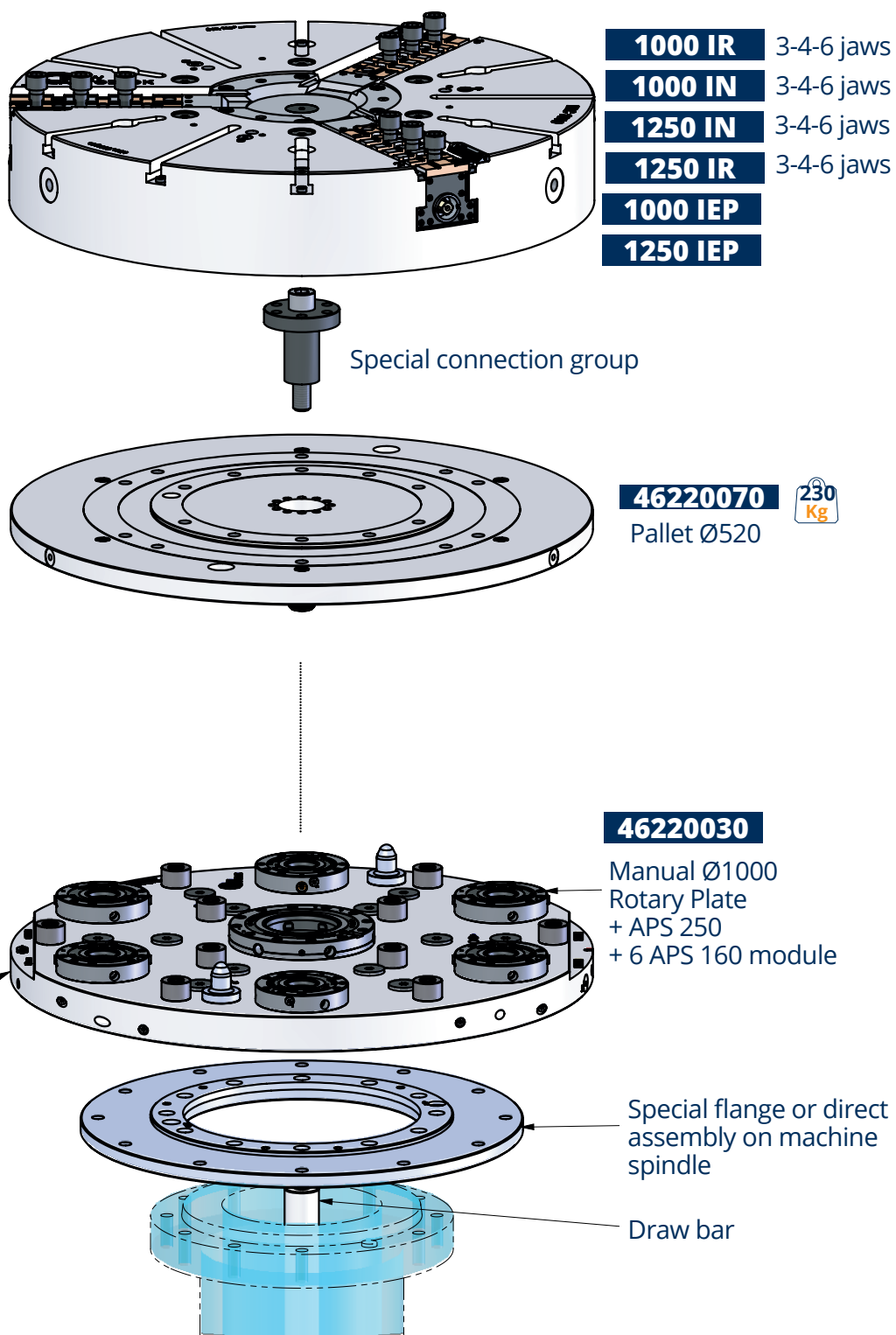
G1/8 female quick
connection for pneumatic
manual operation



Special flange or direct
assembly on machine
spindle

USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø1000 APS250 + 6 APS 160

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.

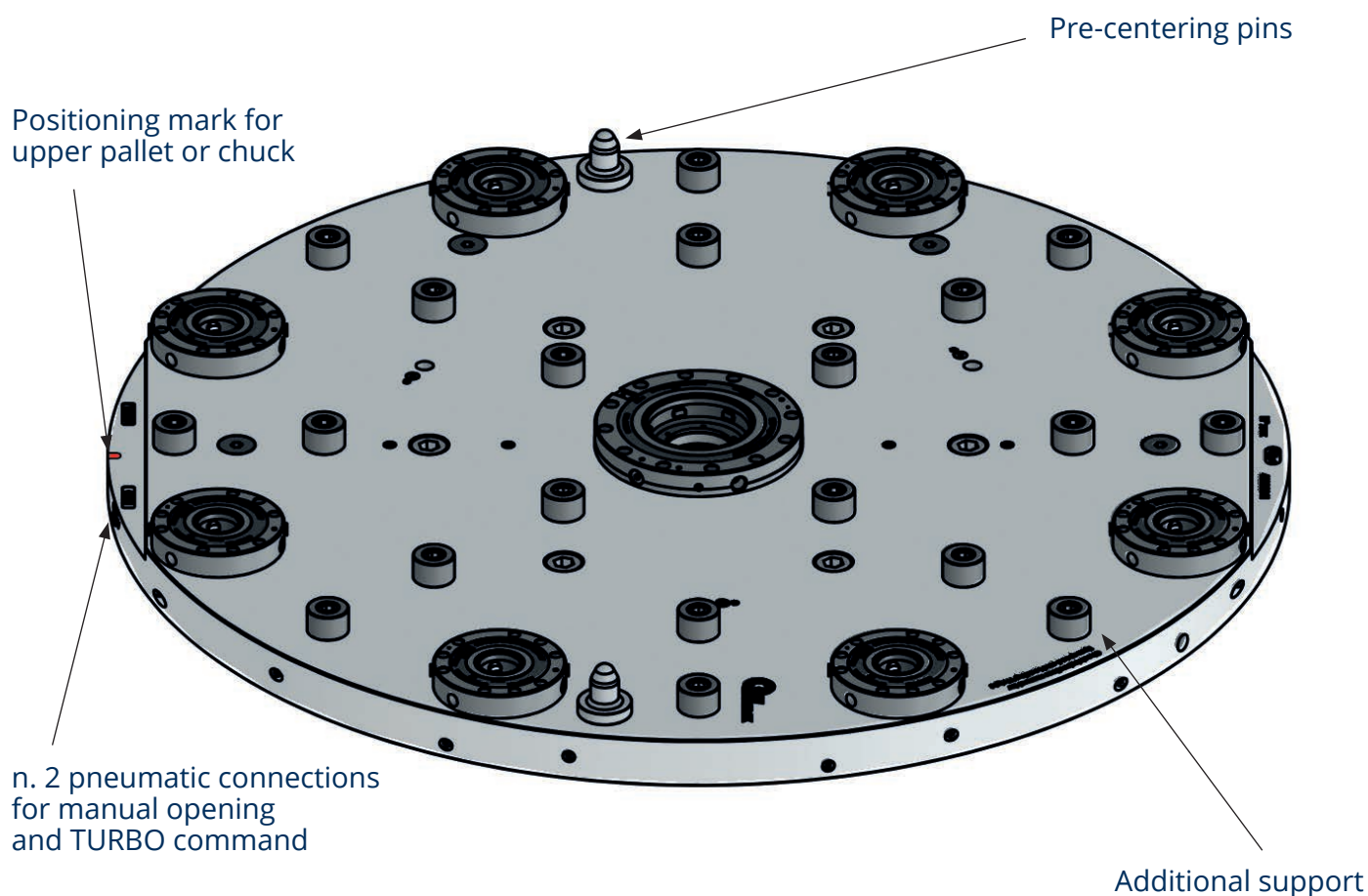


NOTE: all indicated chucks can have air sensing function as optional

ROTARY PLATE Ø1400

with APS 250 and 8 APS 160 manual operation

Manual tooling fast set-up for Ø 1400-1600 and Ø 1800 pallets and chucks



Applications/Customer Benefits

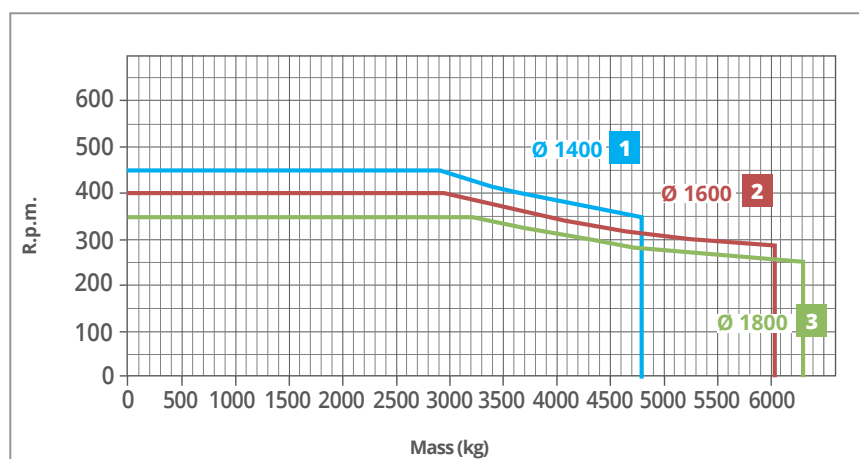
- Pallet/Tooling fast set-up
- Chucks fast set-up Ø1400, Ø1600 and Ø1800 on turning spindles, manual connection (with screw) between chuck and cylinder
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing manually operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	WEIGHT Kg	CHUCK FEATURES				
						DRAW BAR MAX PULLING FORCE	DRAW BAR MAX PUSHING FORCE	Ø1400 CHUCK MAX RPM (*)	Ø1600 CHUCK MAX RPM (**)	Ø1800 CHUCK MAX RPM (***)
Ø1400 MANUAL	46220040	0,005 mm	295 kN	6 bar	790	200 kN	120 kN	450	400	350

Weight/Speed diagram



(*) (**) (***) rpm max speed has to be reduced if used chuck type has lower rpm speed

1 (*) Diagram is showing the rpm speed depending from:

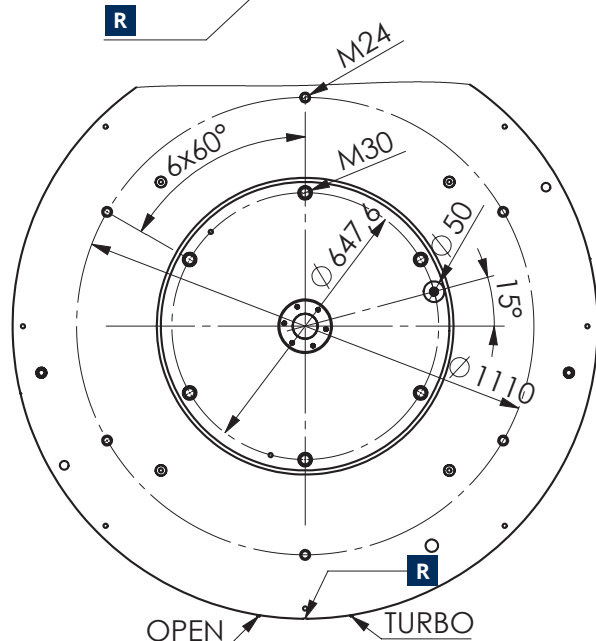
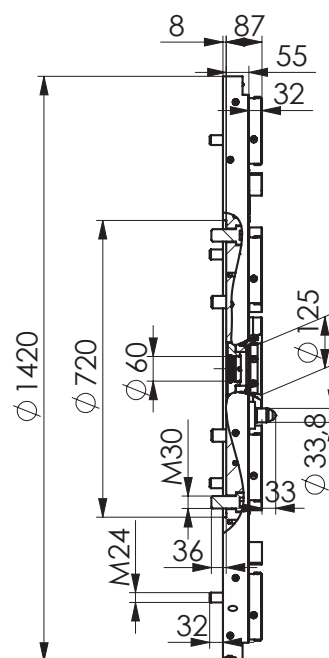
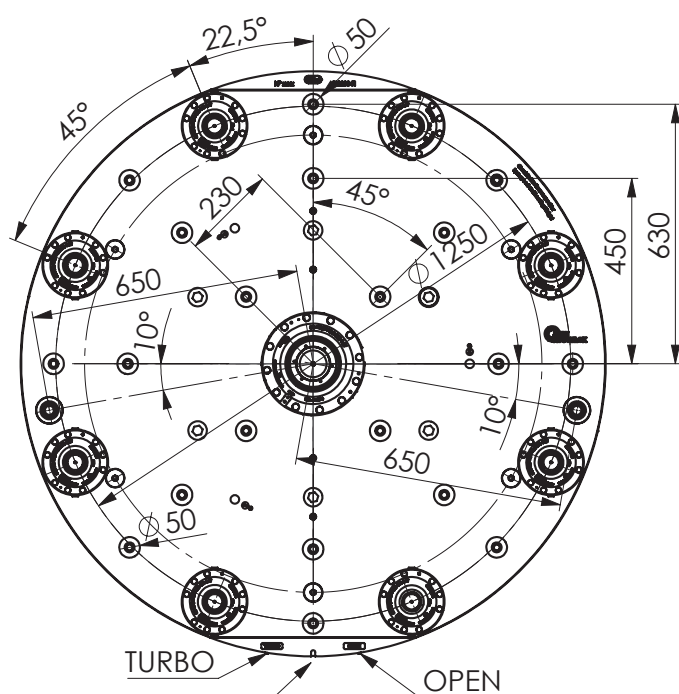
- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 1400 and 550 mm total length

2 (**) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 1600 and 550 mm total length

3 (***) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (pallet + chuck or fixture + workpiece).
- max overall dimension on rotary plate Ø 1800 and 550 mm total length



R RED MARK

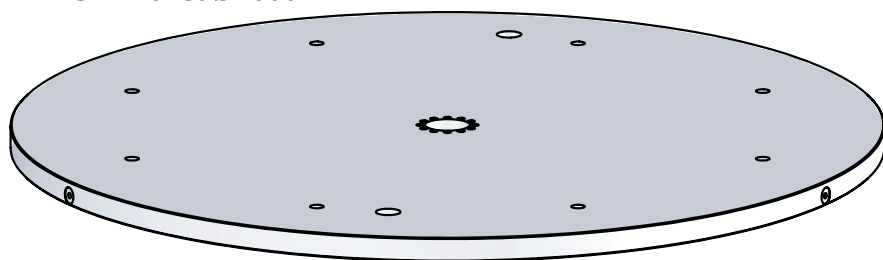
USABLE PALLETS SCHEME WITH ROTARY PLATE Ø1400 APS250 + 8 APS 160

Manual tooling fast pallets set-up.

46220340



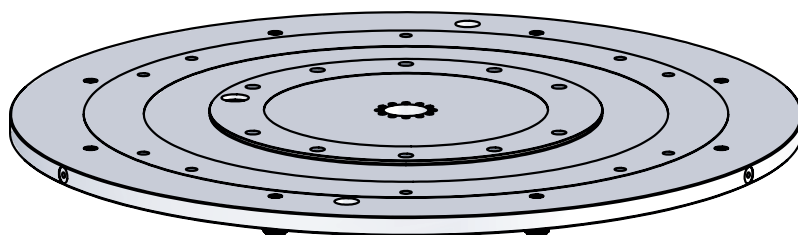
Smf Pallet Ø1600



46220080



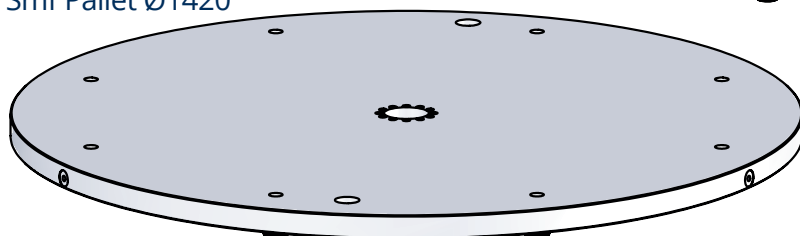
Pallet Ø720 for 1400 PTF,
1600 PTF



46220330

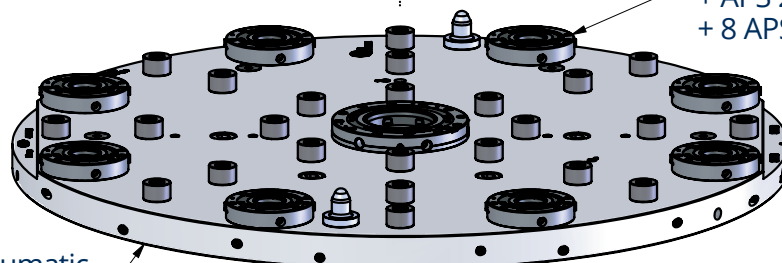


Smf Pallet Ø1420



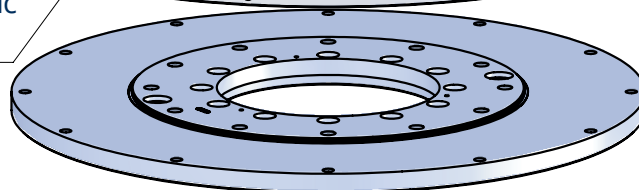
46220040

Manual Ø1400 rotary plate
+ APS 250
+ 8 APS 160 module

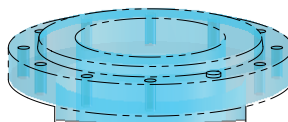


71612801

G1/8 female quick
connection for pneumatic
manual operation

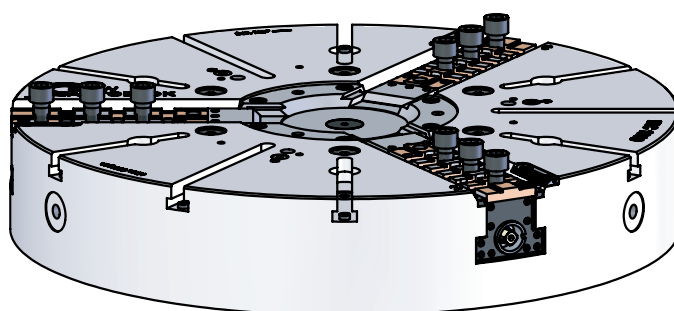


Special flange or direct
assembly on machine
spindle



USABLE CHUCKS SCHEME WITH ROTARY PLATE Ø1400 APS250 + 8 APS 160

Manual tooling fast chucks set-up.
Connection between chuck and draw bar is made by screw.



1400 IR 3-4-6 jaws

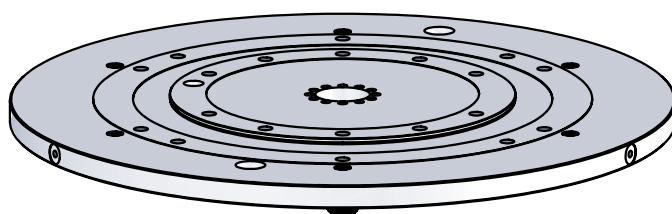
1600 IR 3-4-6 jaws

1800 IR 3-6 jaws

1400 IEP

1600 IEP

Special connection group



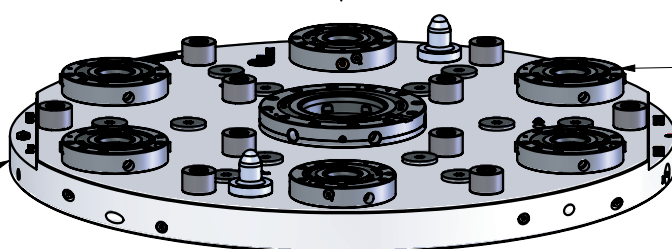
46220080

465
Kg

Pallet Ø720

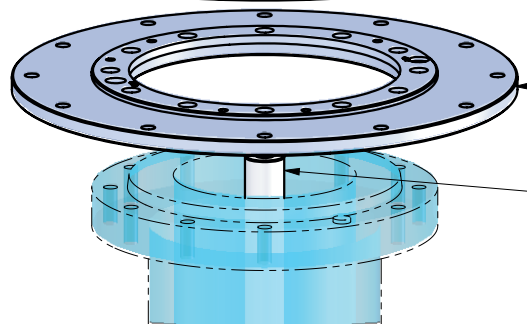
71612801

G1/8 female quick
connection for pneumatic
manual operation



46220040

Manual Ø1400 Rotary Plate
+ APS 250
+ 8 APS 160 module



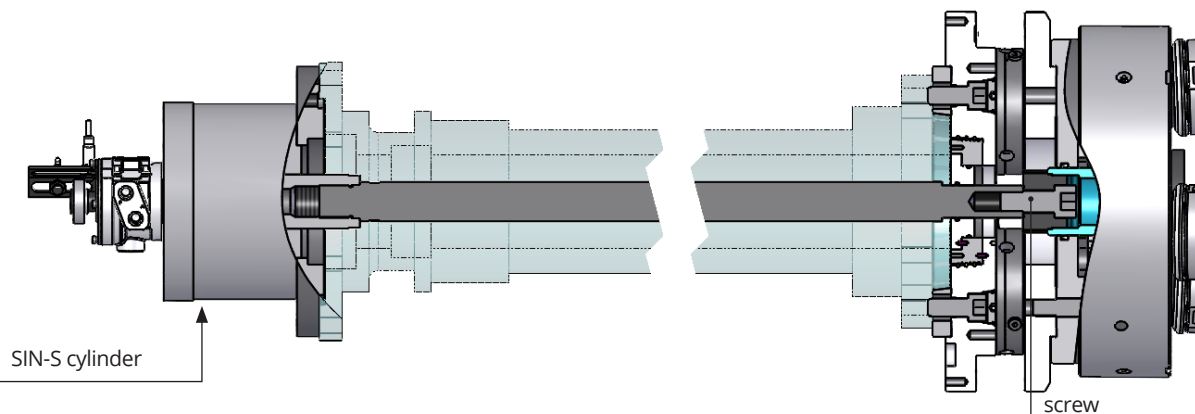
Special flange or direct
assembly on machine
spindle

Draw bar

NOTE: all indicated chucks can have air sensing function as optional

Recommended cylinders for ROTARY PLATE

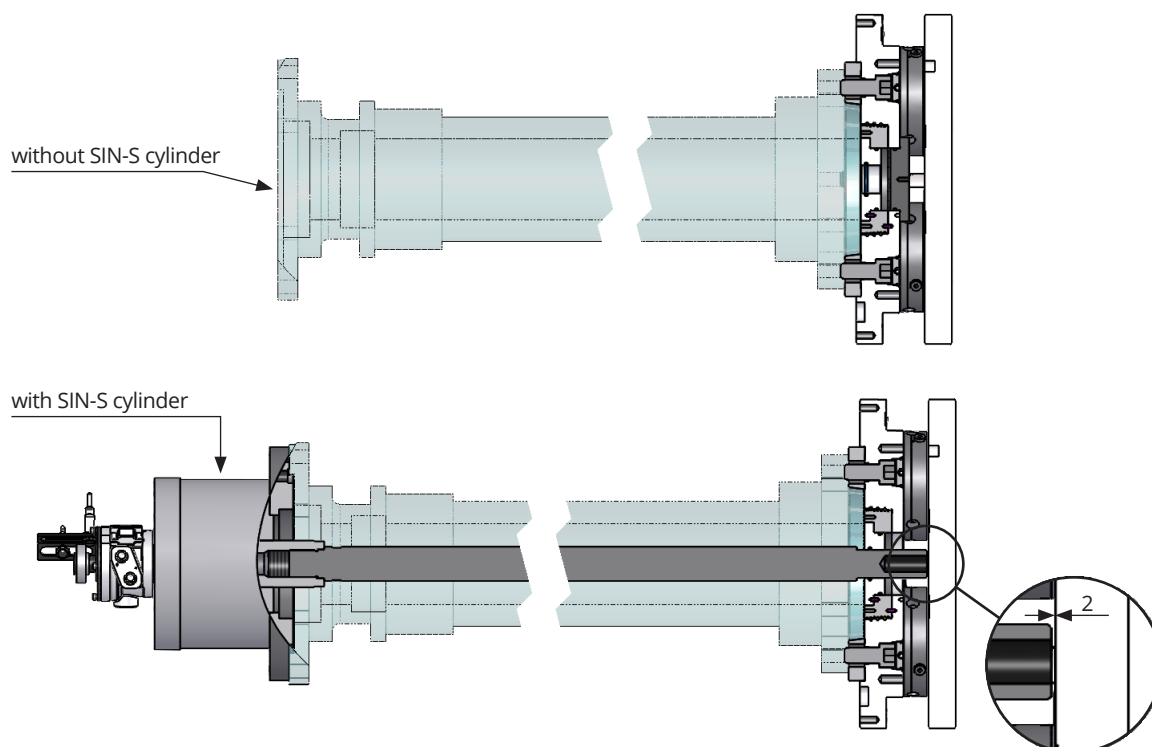
Manual pallet fast set-up with chucks.
Connection between chuck and draw bar is made by screw.



RECOMMENDED CYLINDERS								
ROTARY PLATE TYPE	TS / TX	→ SIN	AP	→ SIN	IR	/ IN	/ IEP	→ SIN
Ø202	170	85 SIN-S	170	100 SIN-S	-	-	-	-
			210	125 SIN-S	-	-	-	-
Ø260	210	100 SIN-S	210	125 SIN-S	-	-	-	-
	210-315	125 SIN-S	250-315	150 SIN-S	-	-	-	-
Ø420	400	150 SIN-S	400	175 SIN-S	-	-	-	-
Ø520	530-650	150 SIN-S	500-630	200 SIN-S	-	-	-	-
Ø650	650	175 SIN-S	630-800	200 SIN-S	-	-	-	-
Ø1000	-	-	-	-	1000-1250	1000-1250	1000-1250	200 SIN-S (*)
Ø1400	-	-	-	-	1400-1600-1800	-	1400-1600	200 SIN-S (*)

(*) 1000/1250/1400/1600/1800 IR/IN chucks has 50 mm reduced stroke of the wedge if used by SIN-S 200 cylinder.

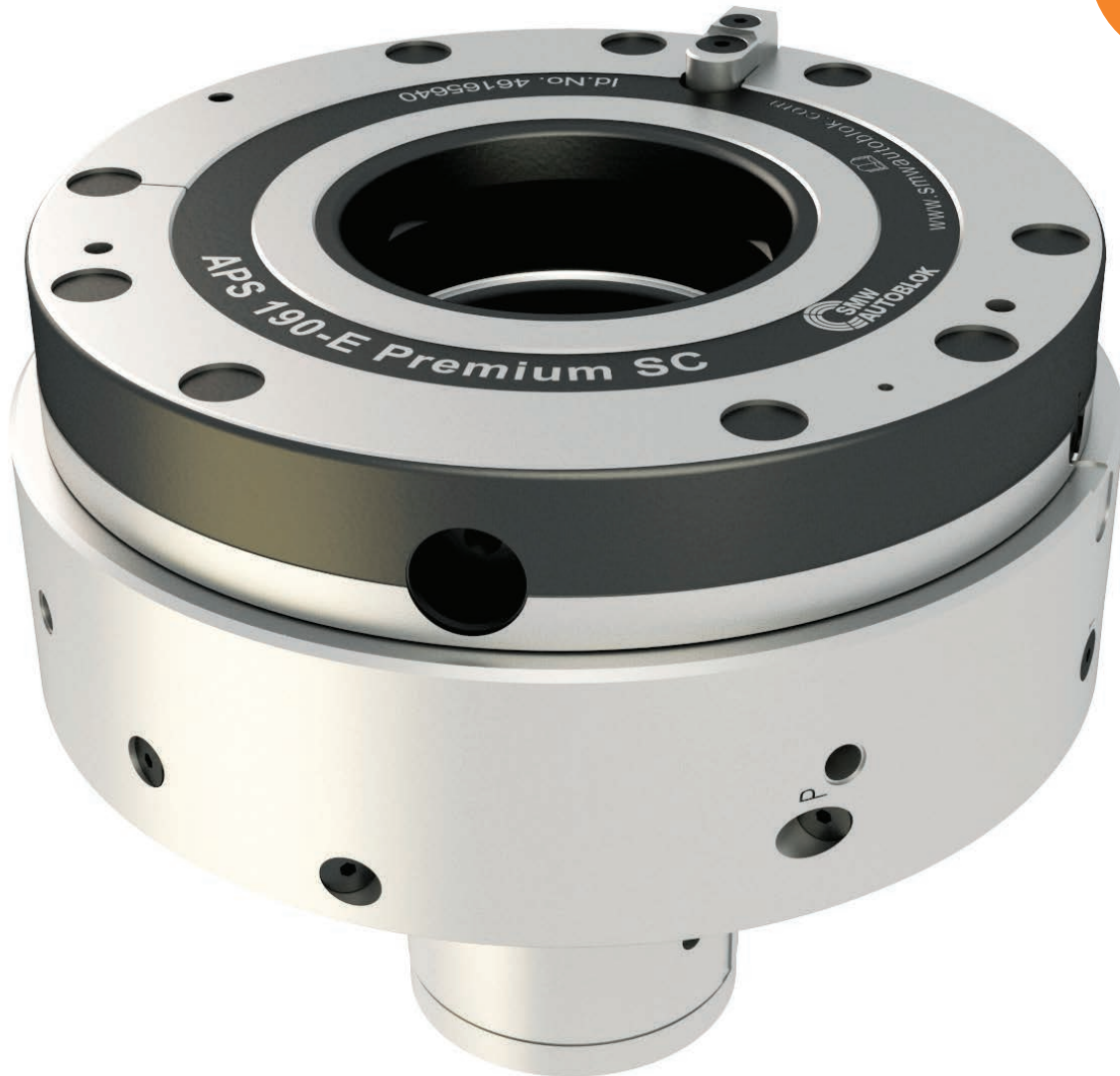
Manual tooling fast pallets set-up



NOTE: cylinder and draw bar allowed correct positioning of the pallet anyway.

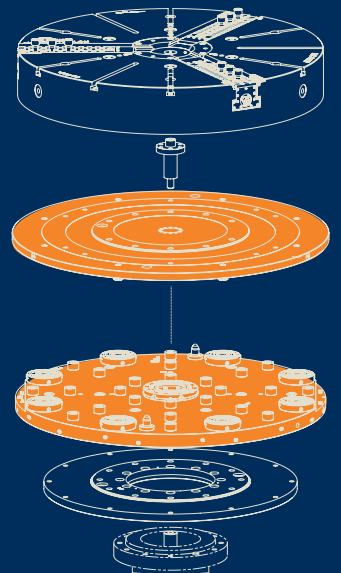
2

ROTARY PLATE



AUTOMATIC OPERATION

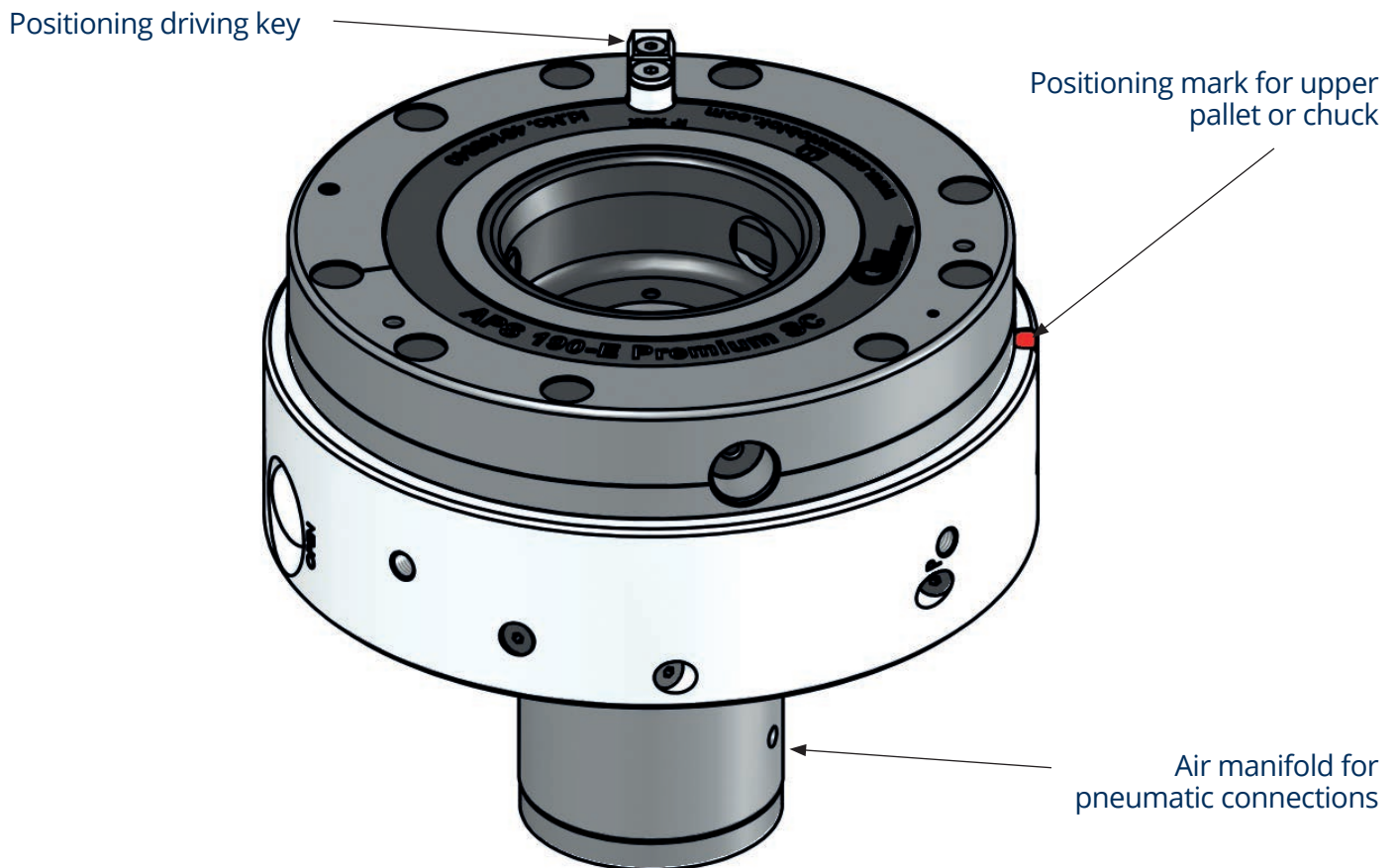
APS MODULES



ROTARY PLATE Ø202

with APS 190 automatic operation

Robot or manual tooling fast set-up for Ø 170 and Ø 210 turning workholding



Applications/Customer Benefits

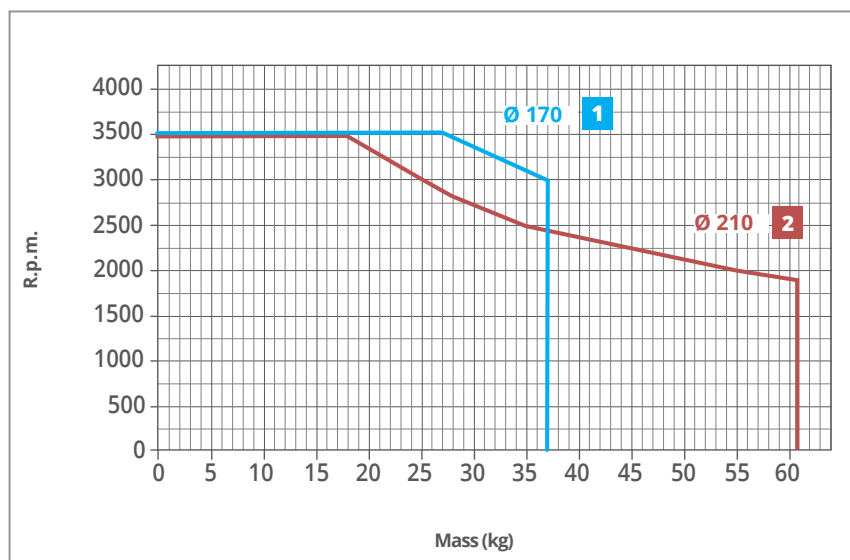
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/SC STROKE CONTROL PRESSURE	Ø170 PALLET MAX RPM (*)	Ø210 PALLET MAX RPM (**)	WEIGHT Kg
Ø202 AUTOMATIC	46220460	0,005 mm	45 kN	6 bar	0,5 bar	3500	3500	18

Weight/Speed diagram

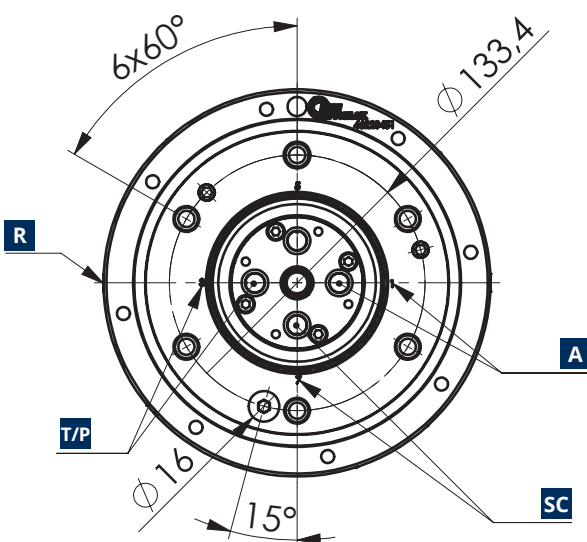
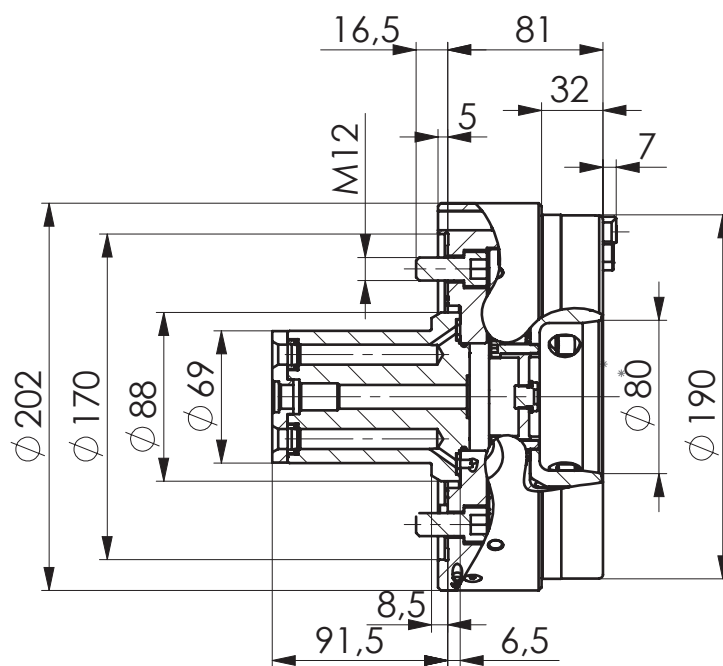
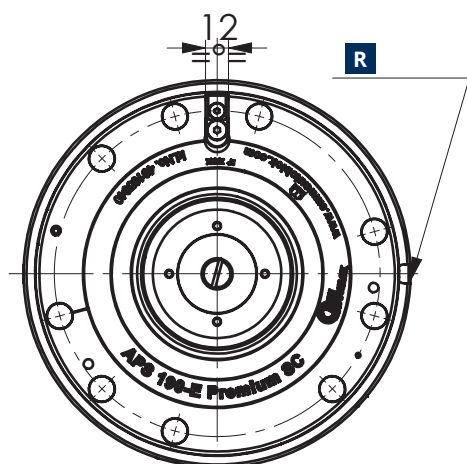


1 (*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 175 and 190 mm total length

2 (**) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 210 and 220 mm total length



R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 7 APS (SC) Stroke Control

NOTE: the direct mounting flange A6 must to be modified with n°6 holes Ø19,5.

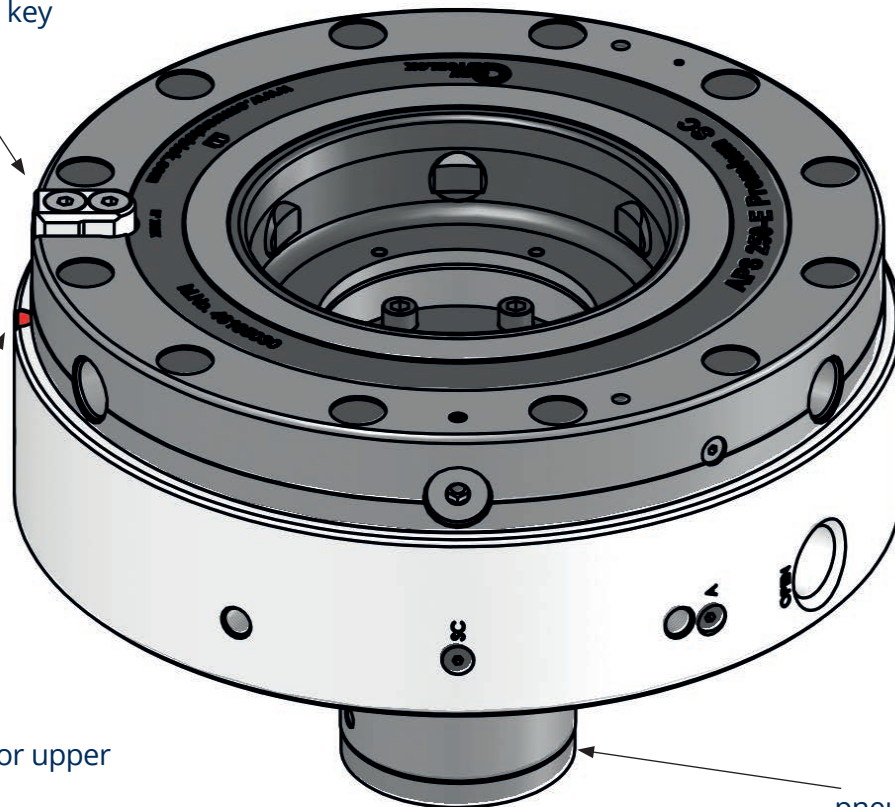
ROTARY PLATE Ø260

with APS 250 automatic operation

Robot or manual tooling fast set-up for Ø 210-250-315 turning workholding

Positioning driving key

Positioning mark for upper
pallet or chuck



Air manifold for
pneumatic connections

Applications/Customer Benefits

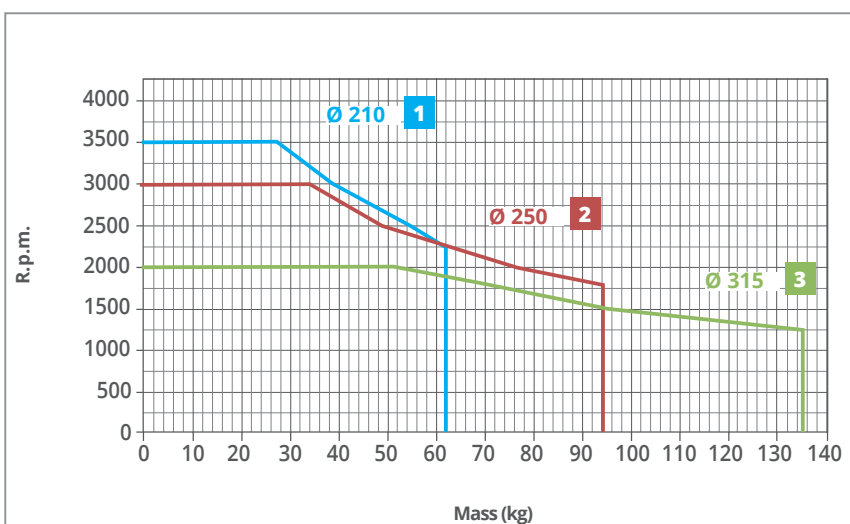
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm

Technical features

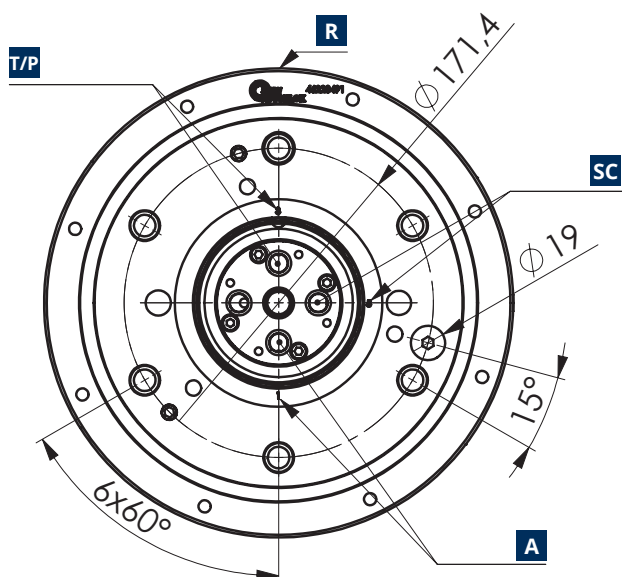
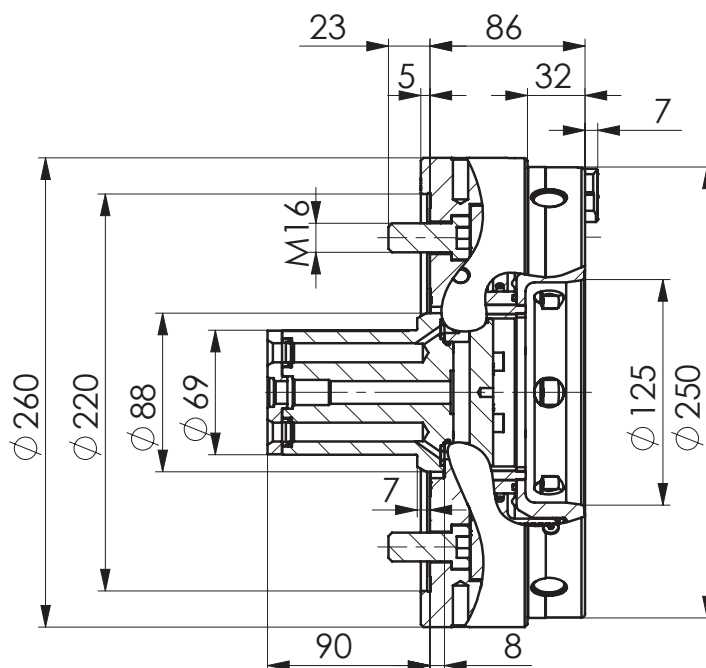
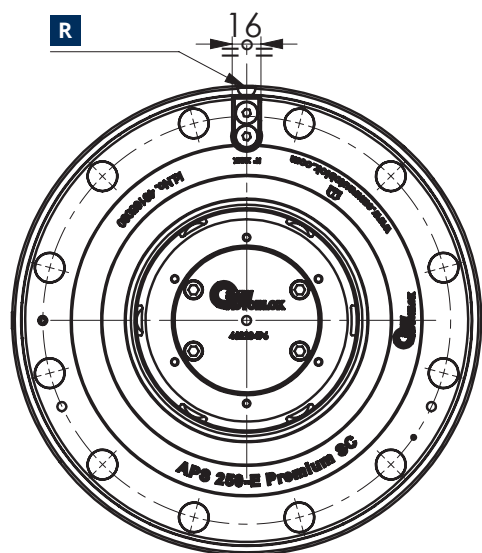
- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING /CLOSING	AIR SENSING/SC STROKE CONTROL PRESSURE	Ø210 PALLET MAX RPM (*)	Ø250 PALLET MAX RPM (**)	Ø315 PALLET MAX RPM (***)	WEIGHT Kg
Ø260 AUTOMATIC	46220500	0,005 mm	55 kN	6 bar	0,5 bar	3500	3000	2000	30

Weight/Speed diagram



- 1** (*) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
Ø 210 and 220 mm total length
- 2** (**) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
Ø 250 and 250 mm total length
- 3** (***) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
Ø 315 and 250 mm total length

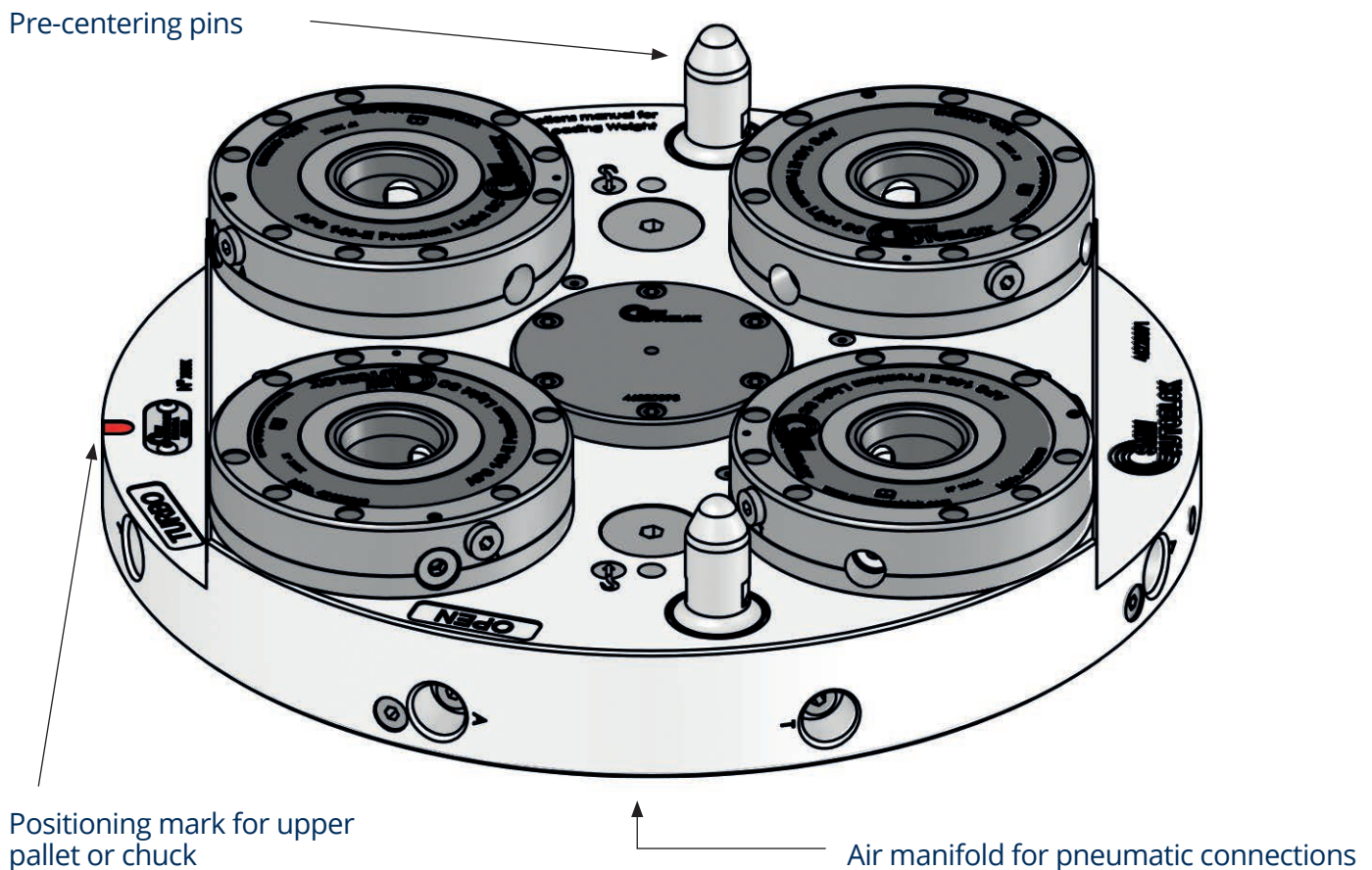


R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 5 APS (SC) Stroke Control

ROTARY PLATE Ø420

with 4 APS 140 automatic operation

Robot or manual tooling fast set-up for Ø 400 turning workholding



Applications/Customer Benefits

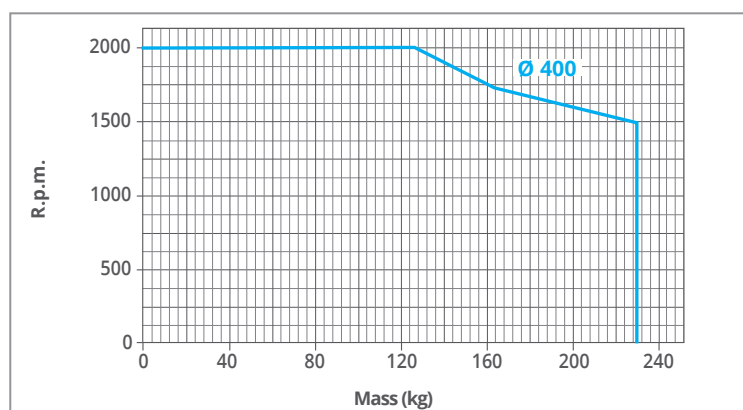
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

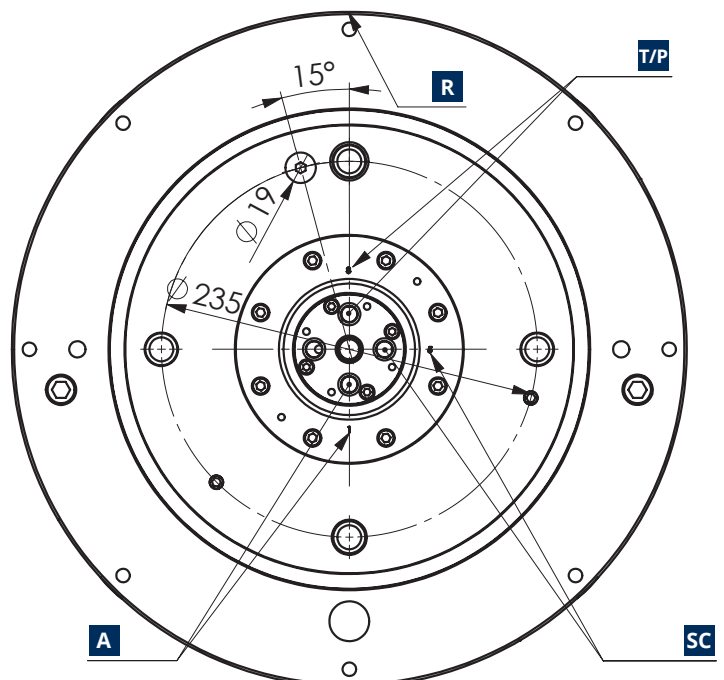
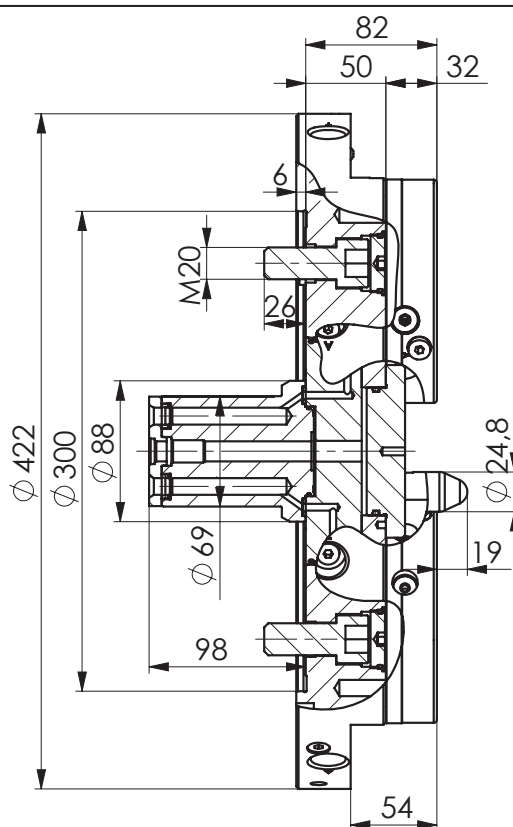
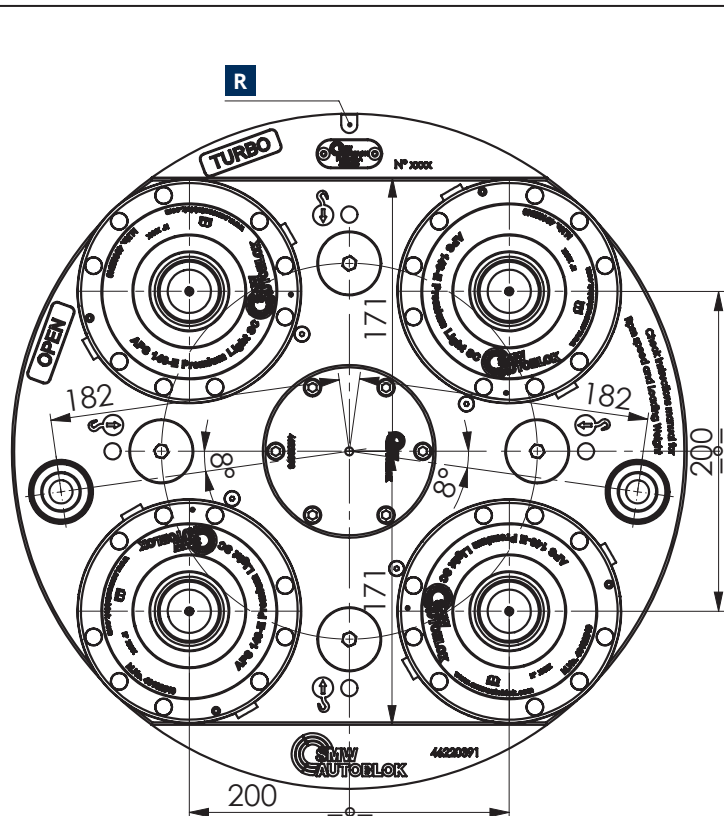
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING /CLOSING	AIR SENSING/SC STROKE CONTROL PRESSURE	Ø400 PALLET MAX RPM (*)	WEIGHT Kg
Ø420 AUTOMATIC	46220400	0,005 mm	104 kN	6 bar	0,5 bar	2000	67

Weight/Speed diagram



(*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate
(*fixture + workpiece*).
- max overall dimension on rotary plate
(*fixture + workpiece*)
Ø 420 and 300 mm total length

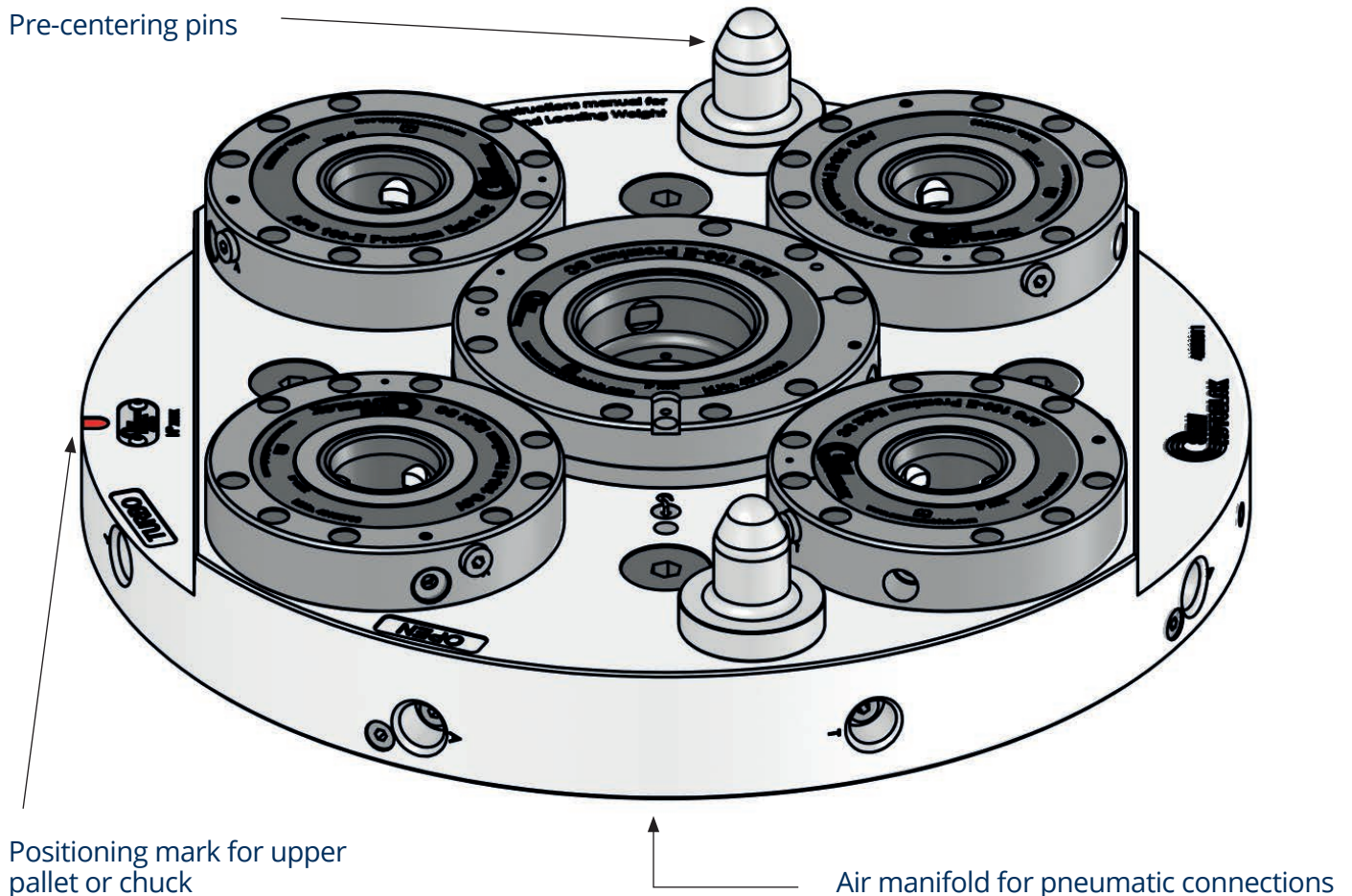


R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 5 APS (SC) Stroke Control

ROTARY PLATE Ø520

with APS 190 and 4 APS 160 automatic operation

Robot or manual tooling fast set-up for Ø 500 turning workholding



Applications/Customer Benefits

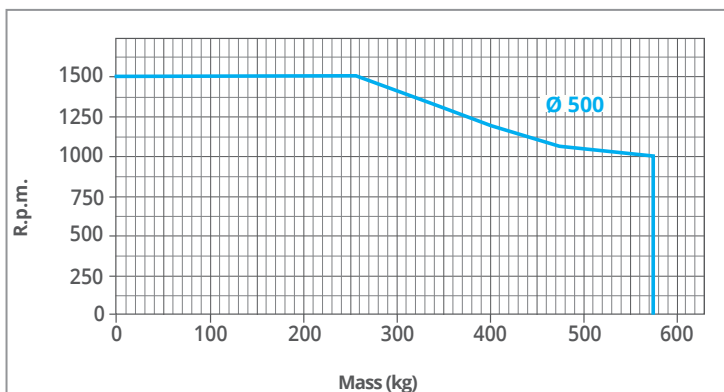
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

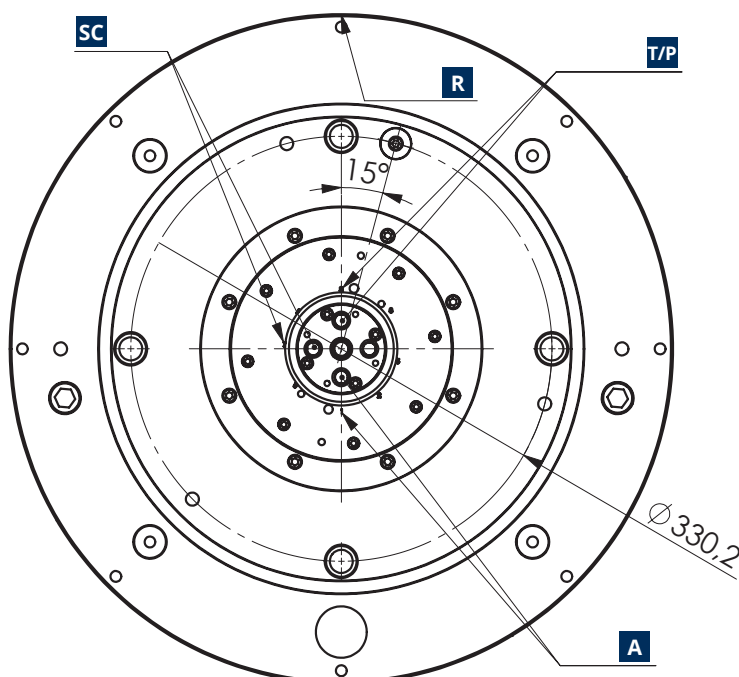
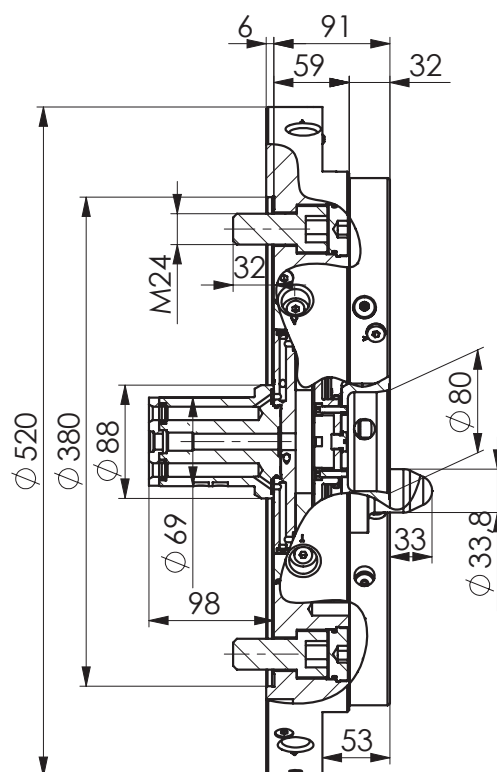
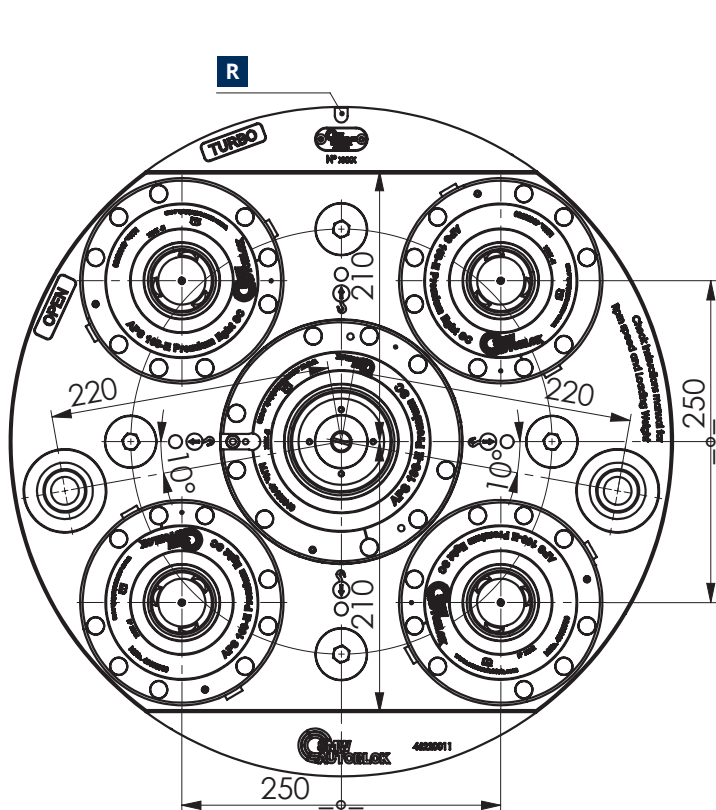
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING /CLOSING	AIR SENSING/SC STROKE CONTROL PRESSURE	Ø500 PALLET MAX RPM (*)	WEIGHT Kg
Ø520 AUTOMATIC	46220090	0,005 mm	165 kN	6 bar	0,5 bar	1500	115

Weight/Speed diagram



(*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate
(fixture + workpiece).
- max overall dimension on rotary plate
(fixture + workpiece)
Ø 520 and 400 mm total length

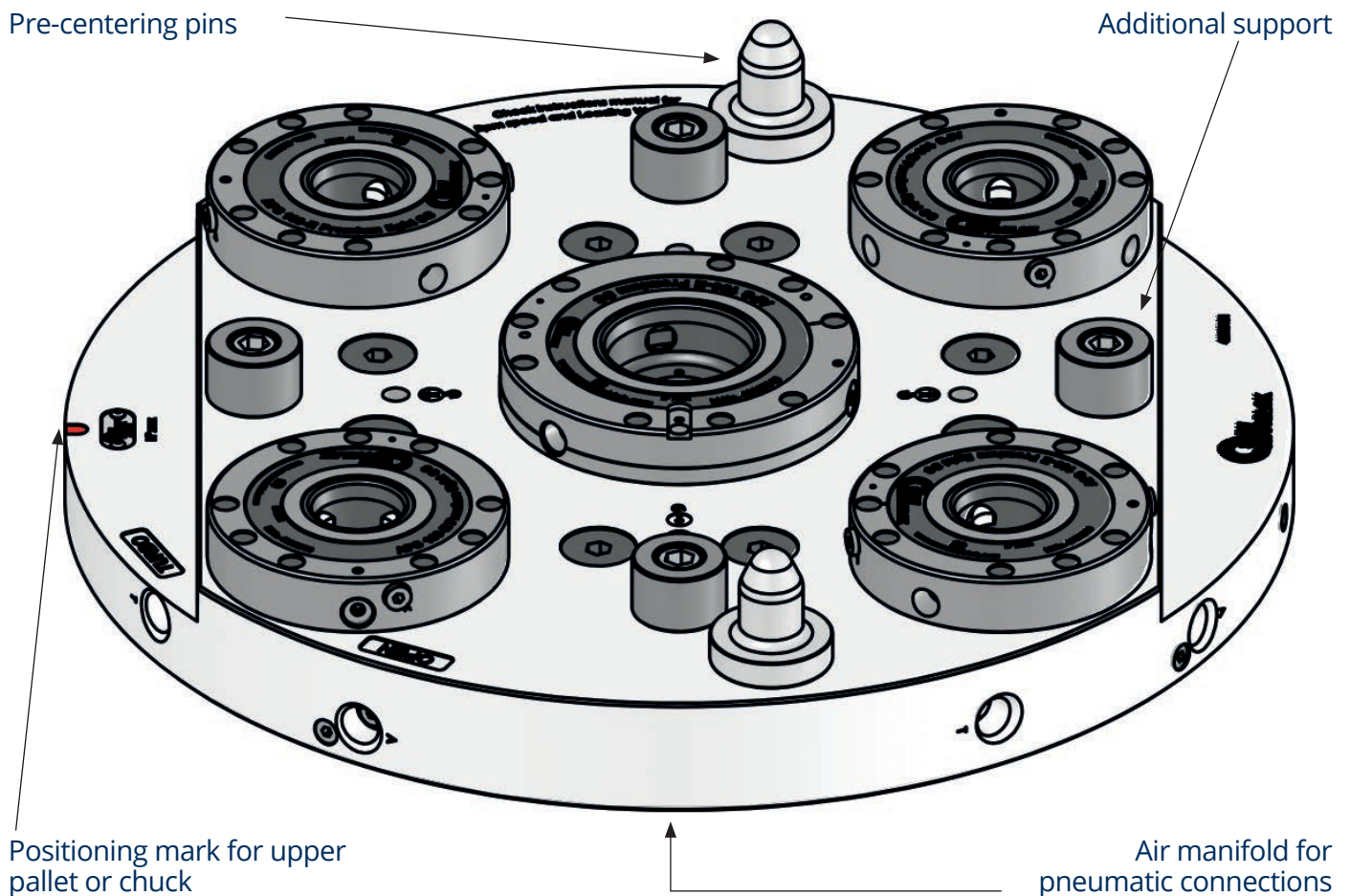


R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 7 APS (SC) Stroke Control

ROTARY PLATE Ø650

with APS 190 and 4 APS 160 automatic operation

Robot or manual tooling fast set-up for Ø 650 and Ø 800 turning workholding



Applications/Customer Benefits

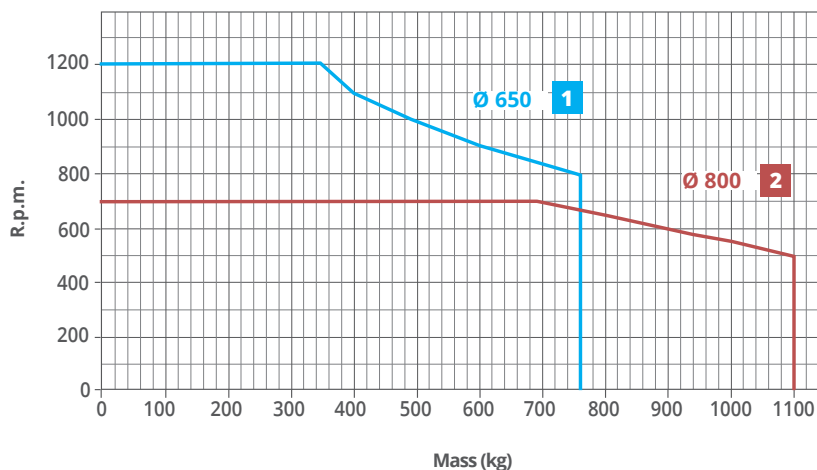
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO FUNCTION AT 6 bar	MAX PRESSURE OPENING /CLOSING	AIR SENSING/SC STROKE CONTROL PRESSURE	Ø650 PALLET MAX RPM (*)	Ø800 PALLET MAX RPM (**)	WEIGHT Kg
Ø650 AUTOMATIC	46220140	0,005 mm	165 kN	6 bar	0,5 bar	1200	700	173

Weight/Speed diagram

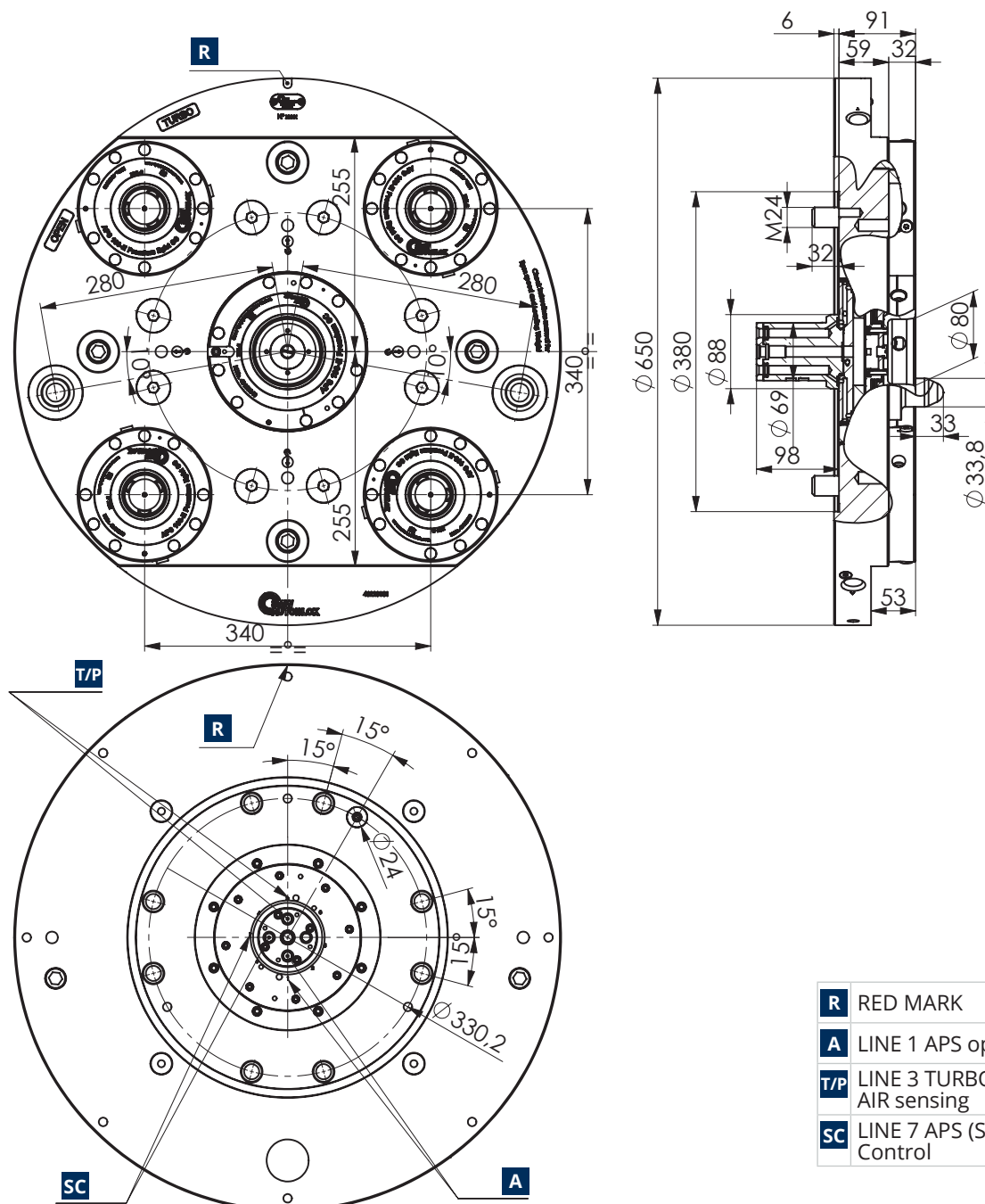


1 (*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 630 and 450 mm total length

2 (**) Diagram is showing the rpm speed depending from:

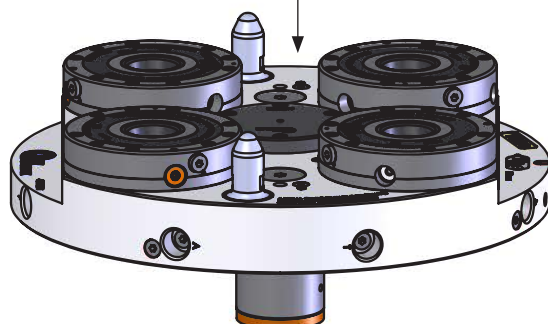
- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 630 and 450 mm total length



R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 7 APS (SC) Stroke Control

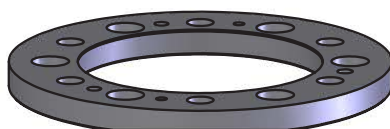
Manual or robot pallet tooling fast set-up

Pallet  FOR EACH SIZE, CHECK RELATED
PALLETS INDICATED AT CHAP. 1

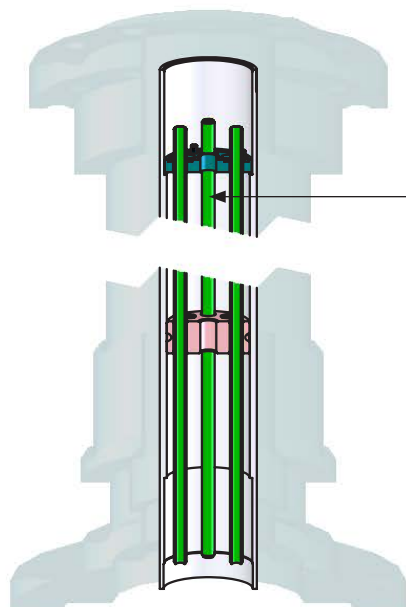


Mod. ID.No. AUTOMATIC
ROTARY PLATE

Ø202	46220460
Ø260	46220500
Ø420	46220400
Ø520	46220090
Ø650	46220140

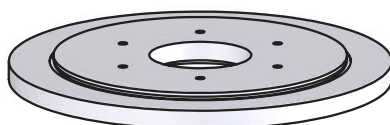


ISO-A flange  VIEW ACCESSORIES



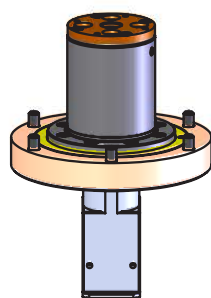
Pipe bundle

(to customize for each machine tool
specifically)



Manifold flange

(to customize for each machine tool
specifically)

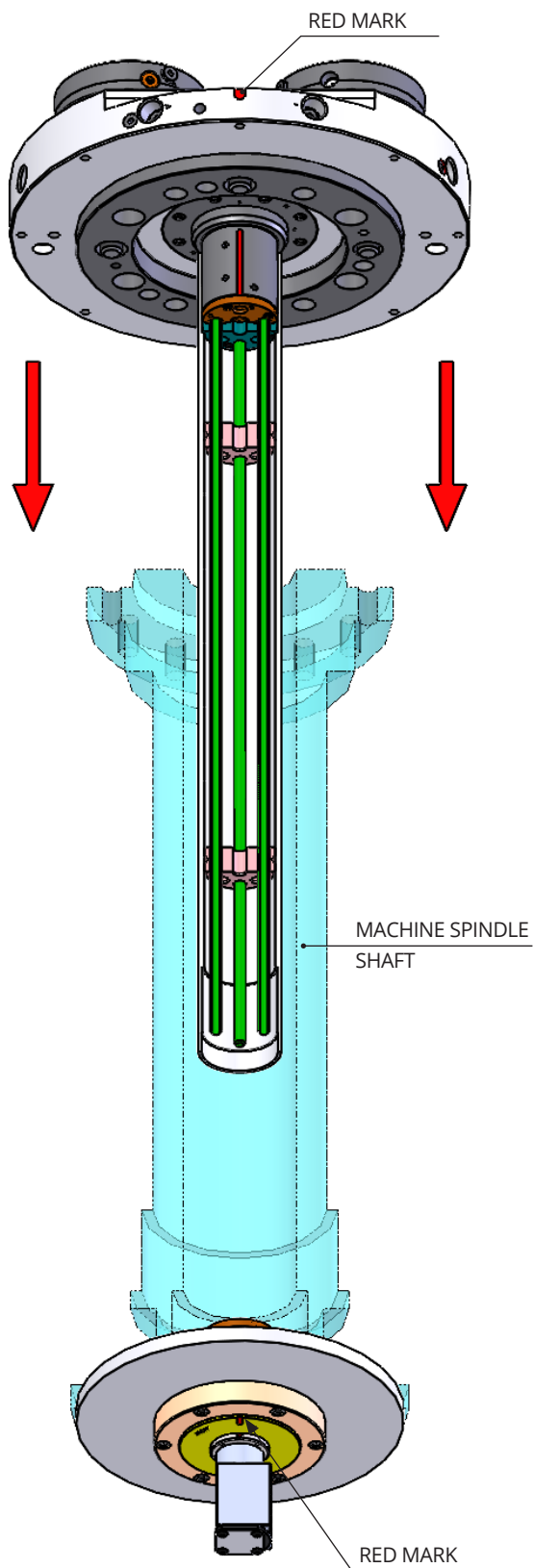


60580011  VIEW ACCESSORIES

3-pneumatic feedings manifold

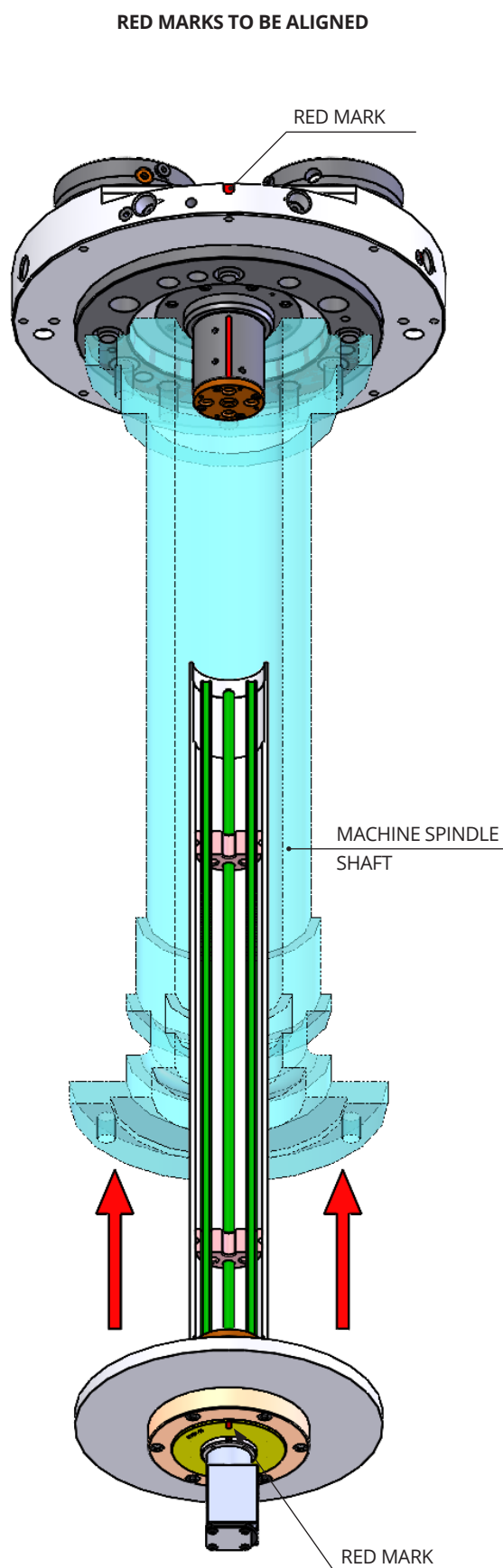
PIPE BUNDLE for Automatic operation of APS modules

PIPE BUNDLE assembly from ROTARY PLATE side



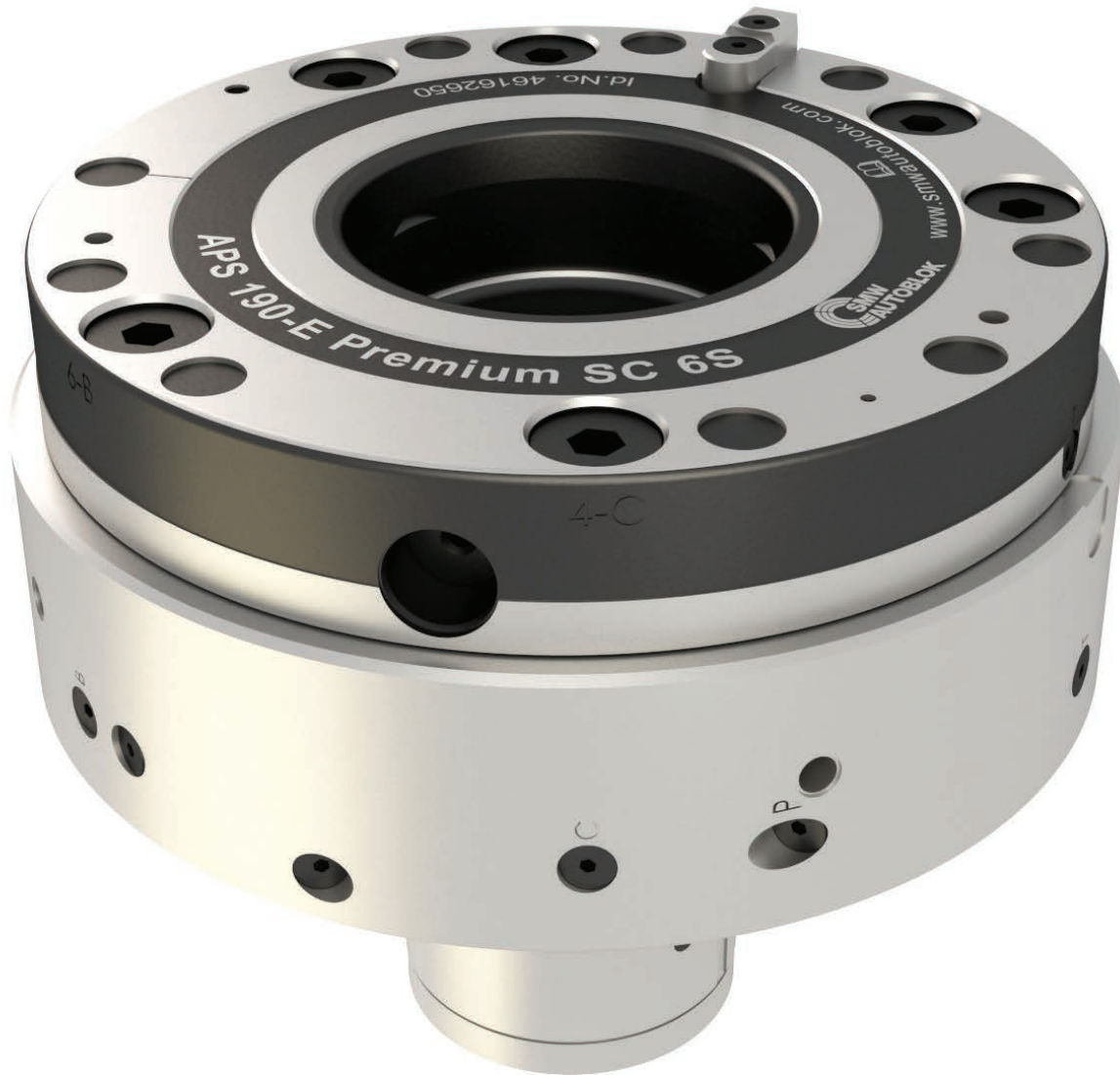
RED MARKS TO BE ALIGNED

PIPE BUNDLE assembly from MANIFOLD side



3

ROTARY PLATE

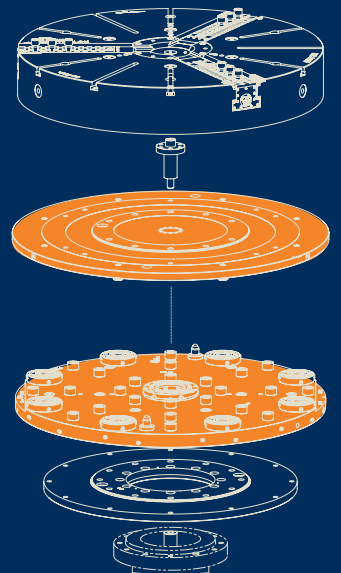


**AUTOMATIC
OPERATION**

APS MODULES

+ 3 FEEDINGS

**PNEUMATIC FOR
FIXTURE CONTROL ON PALLET**

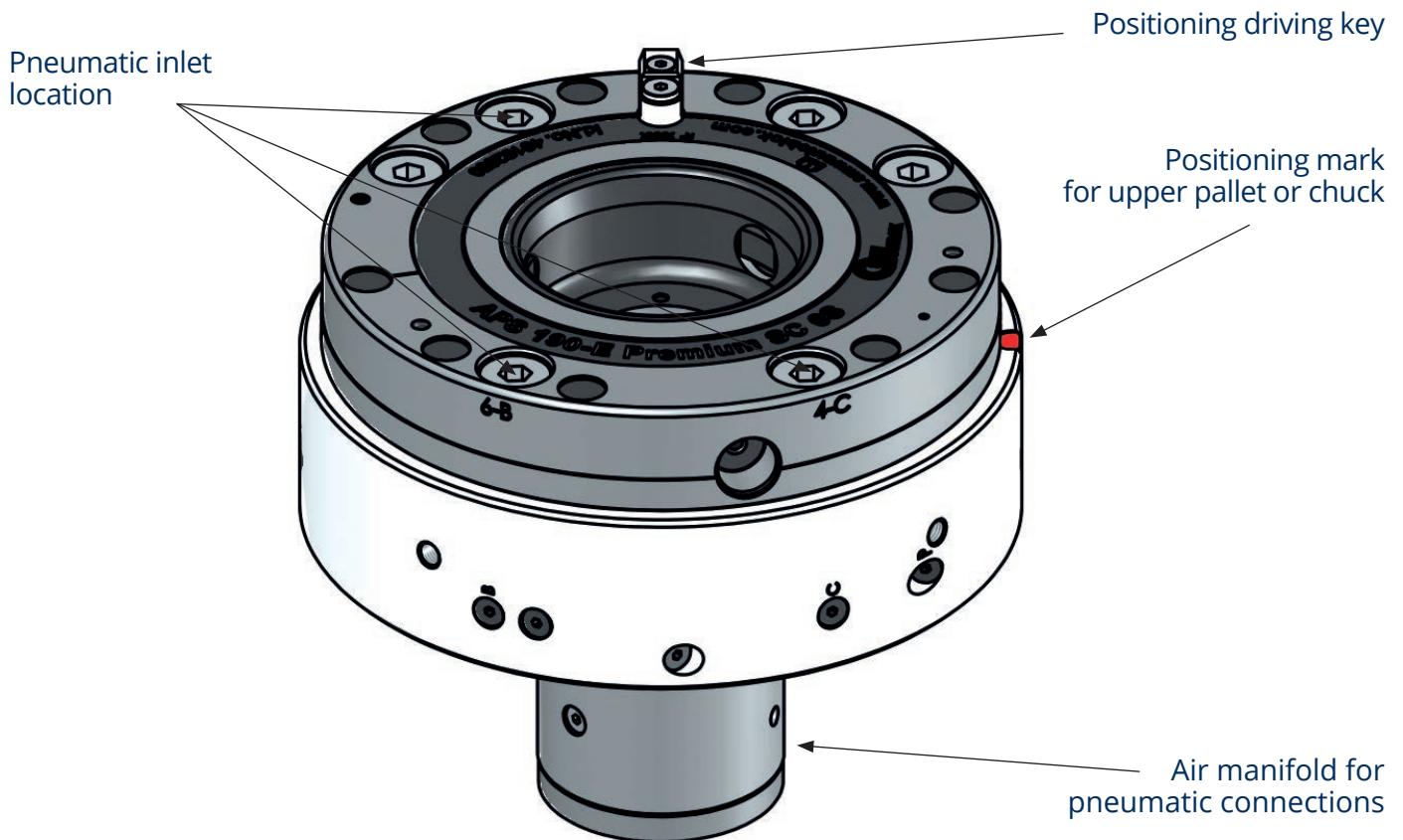


ROTARY PLATE Ø202

with APS 190 automatic operation

+3 PNEUMATIC FEEDINGS ON PALLET

Robot or manual tooling fast set-up for Ø 170 and Ø 210 on turning workholding



Applications/Customer Benefits

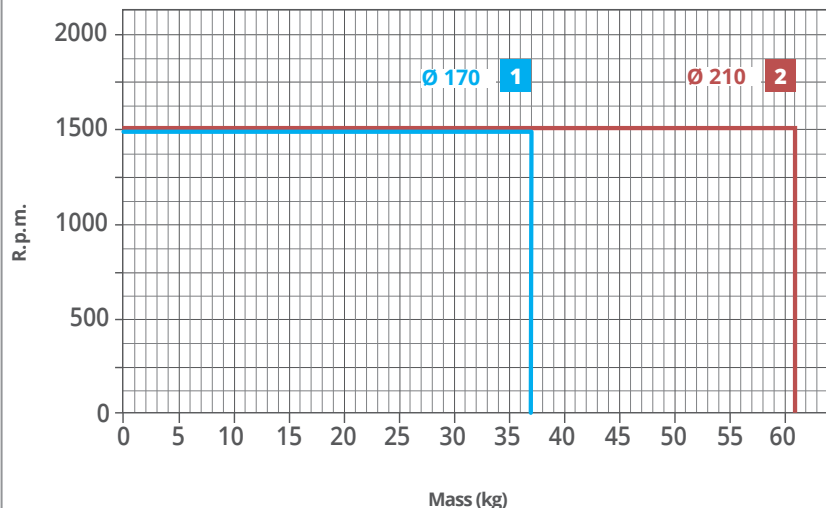
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm
- **3 pneumatic feedings (6 bar) available on pallet**

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/ SC STROKE CONTROL PRESSURE	Ø170 PALLET MAX RPM (*)	Ø210 PALLET MAX RPM (**)	WEIGHT Kg
Ø202 AUTOMATIC +3AIR	46220480	0,005 mm	45 kN	6 bar	0,5 bar	1500	1500	18

Weight/Speed diagram

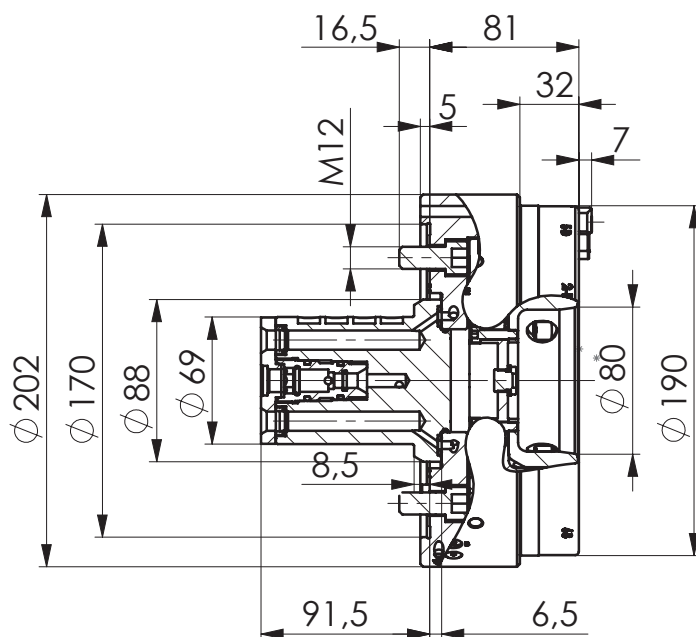
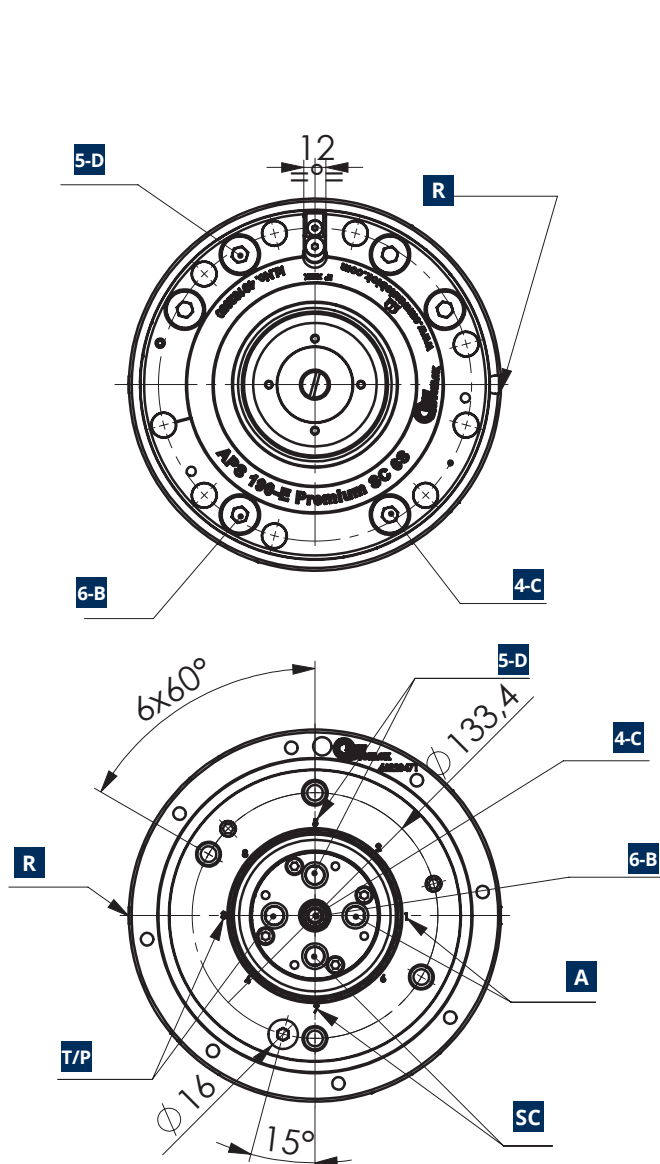


1 (*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 175 and 190 mm total length

2 (**) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate (fixture + workpiece).
- max overall dimension on rotary plate (fixture + workpiece) Ø 210 and 220 mm total length



R	RED MARK
A	LINE 1 APS opening
T/P	LINE 3 TURBO function/ AIR sensing
4-C	LINE 4 (Internal pipe for RU2) C Inlet
5-D	LINE 5 D Inlet
6-B	LINE 6 (External pipe for RU2) B Inlet
SC	LINE 7 APS (SC) Stroke Control

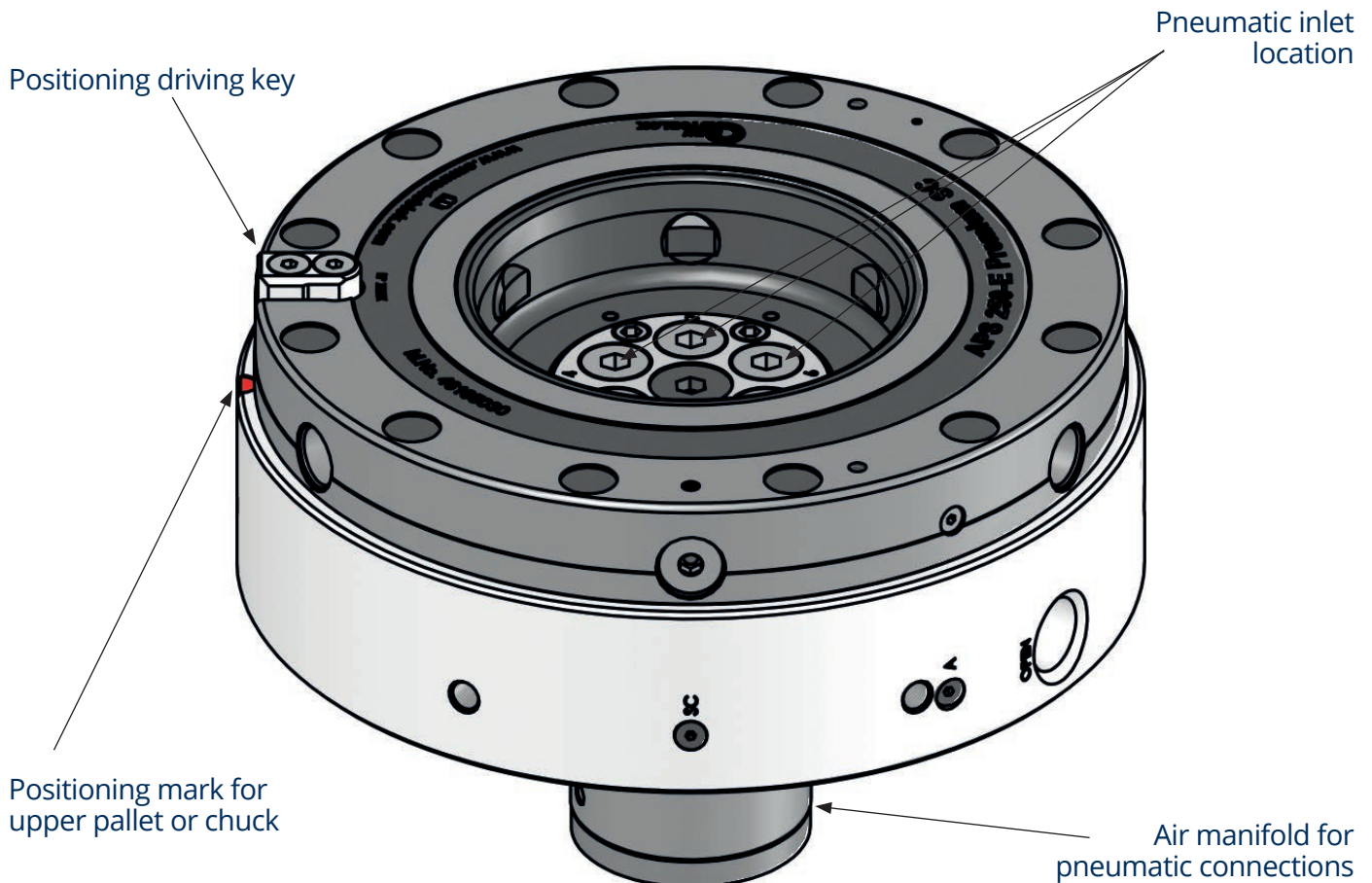
ROTARY PLATE Ø260

with APS 250 automatic operation



3 PNEUMATIC FEEDINGS ON PALLET

Robot or manual tooling fast set-up for Ø 210-250-315 on turning workholding



Applications/Customer Benefits

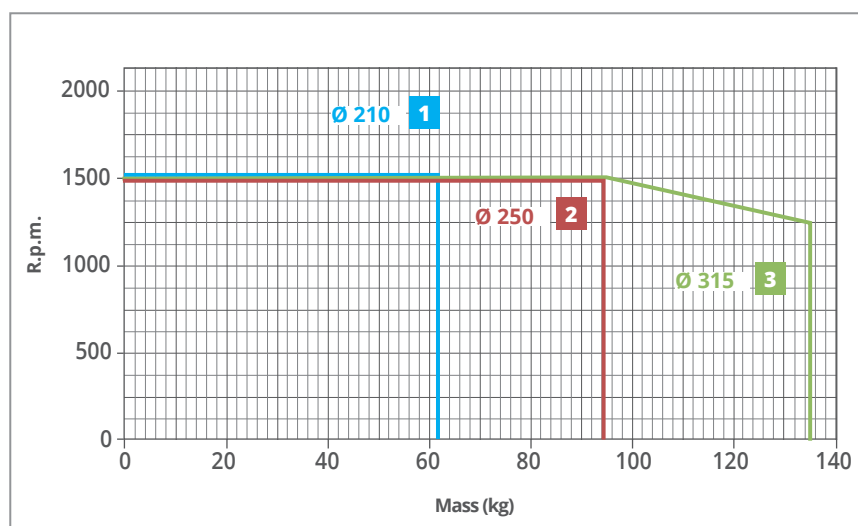
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm
- **3 pneumatic feedings (6 bar) available on pallet**

Technical features

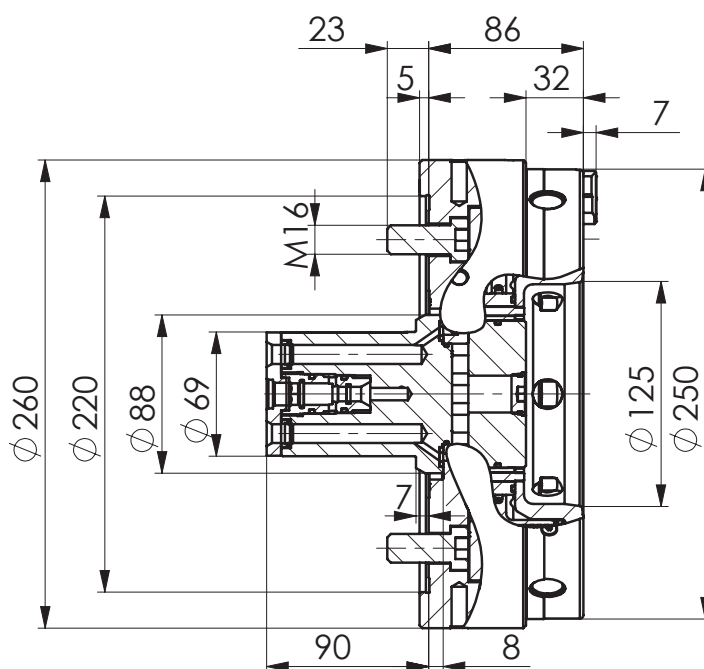
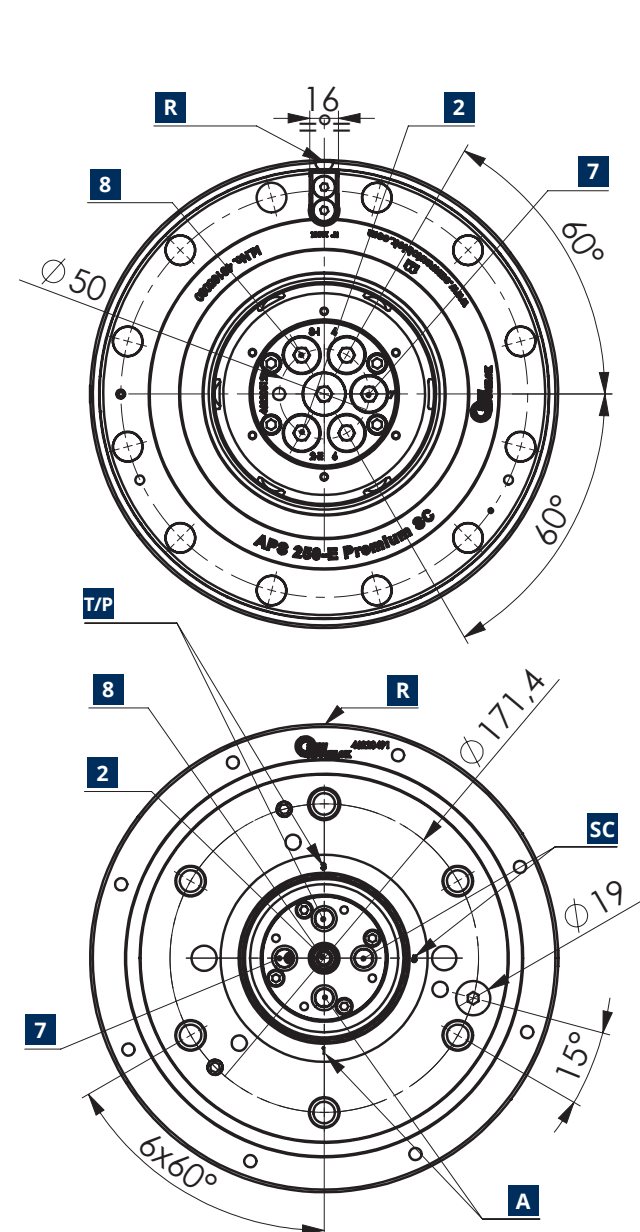
- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/ SC STROKE CONTROL PRESSURE	Ø210 PALLET MAX RPM (*)	Ø250 PALLET MAX RPM (**)	Ø315 PALLET MAX RPM (***)	WEIGHT Kg
Ø260 AUTOMATIC +3AIR	46220520	0,005 mm	55 kN	6 bar	0,5 bar	1500	1500	1500	30

Weight/Speed diagram



- 1** (*) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
 $\varnothing 210$ and 220 mm total length
- 2** (**) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
 $\varnothing 250$ and 250 mm total length
- 3** (***) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece)
 $\varnothing 315$ and 250 mm total length



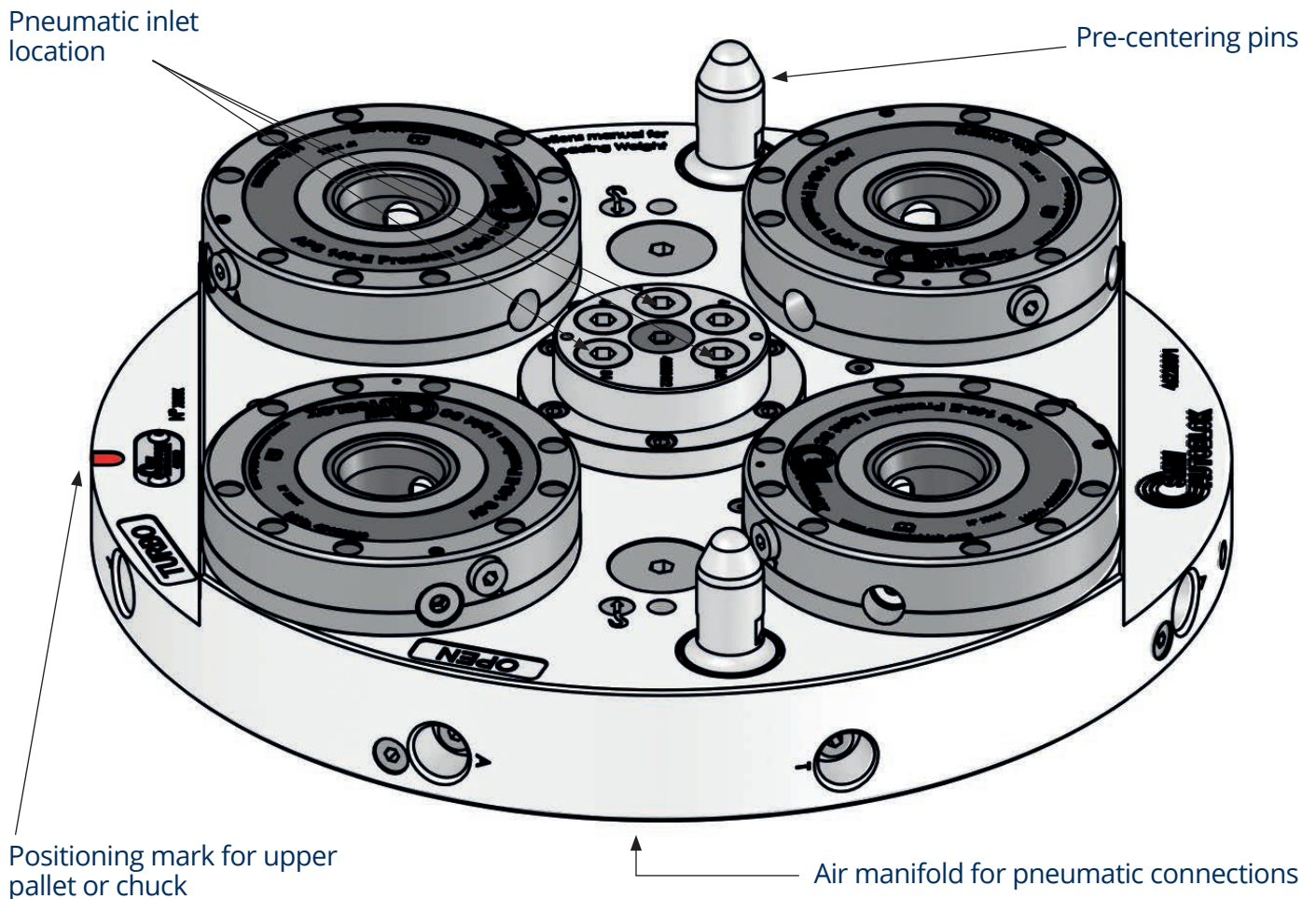
R	RED MARK
A	LINE 1 APS opening
2	LINE 2 (External pipe for RU2)
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 5 APS (SC) Stroke Control
7	LINE 7
8	LINE 8 (Internal pipe for RU2)

ROTARY PLATE Ø420

with 4 APS 140 automatic operation

+3 PNEUMATIC FEEDINGS ON PALLET

Robot or manual tooling fast set-up for Ø 400 on turning workholding



Applications/Customer Benefits

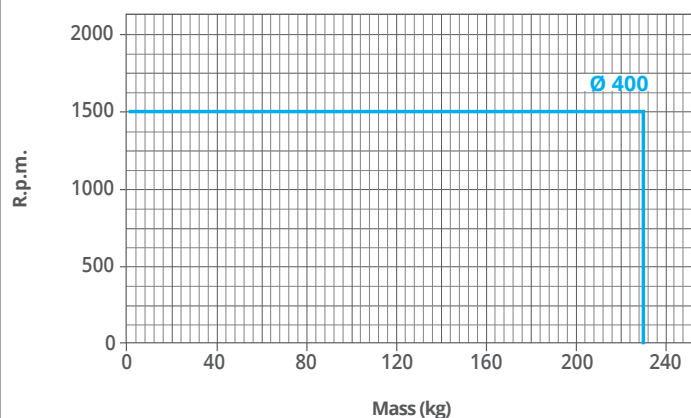
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm
- **3 pneumatic feedings (6 bar) available on pallet**

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

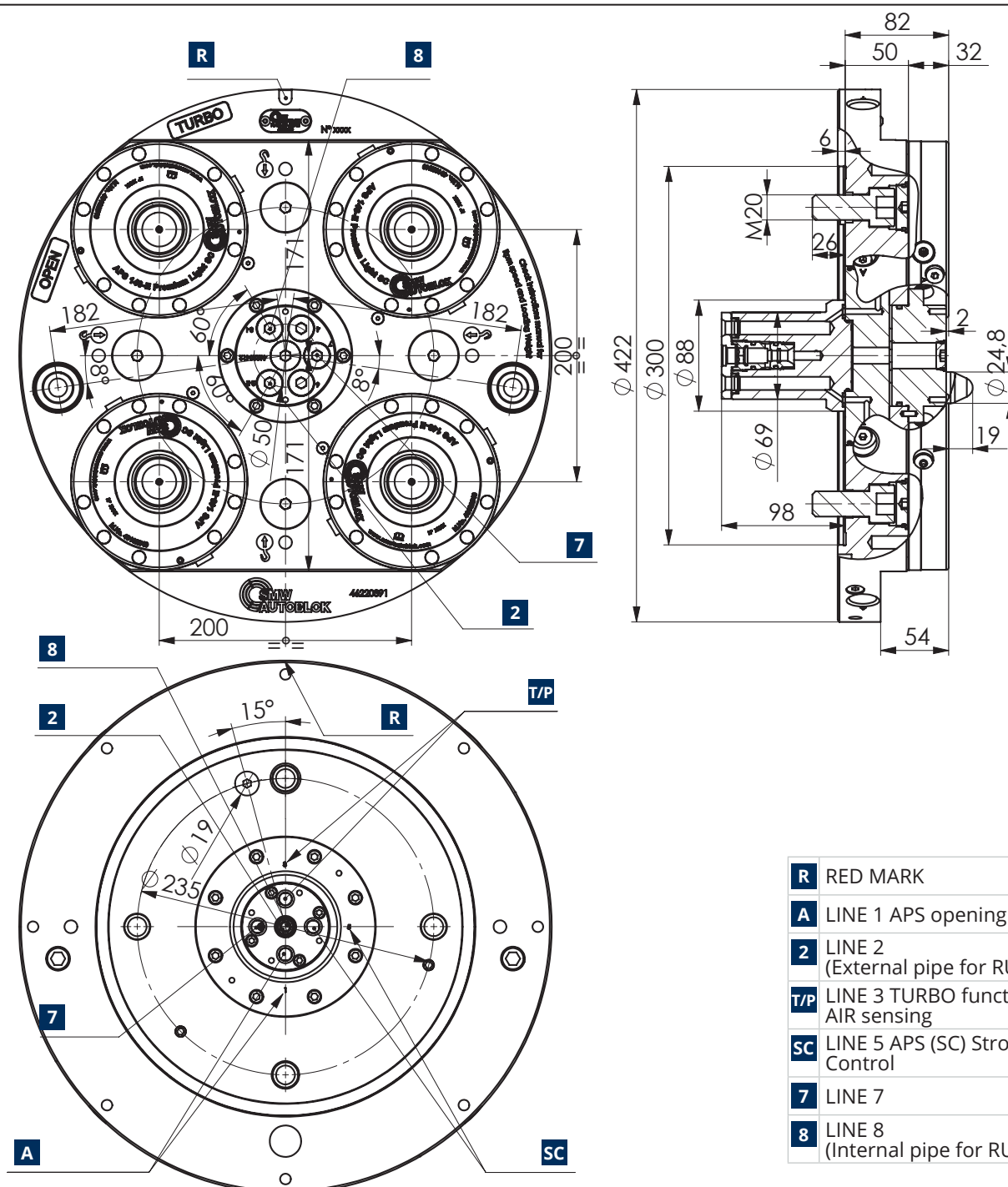
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/ SC STROKE CONTROL PRESSURE	Ø400 PALLET MAX RPM (*)	WEIGHT Kg
Ø420 AUTOMATIC +3AIR	46220420	0,005 mm	104 kN	6 bar	0,5 bar	1500	67

Weight/Speed diagram



(*) Diagram is showing the rpm speed depending from:

- total max weight on rotary plate
(*fixture + workpiece*).
- max overall dimension on rotary plate
(*fixture + workpiece*)
Ø 420 and 300 mm total length



R	RED MARK
A	LINE 1 APS opening
2	LINE 2 (External pipe for RU2)
T/P	LINE 3 TURBO function/ AIR sensing
SC	LINE 5 APS (SC) Stroke Control
7	LINE 7
8	LINE 8 (Internal pipe for RU2)

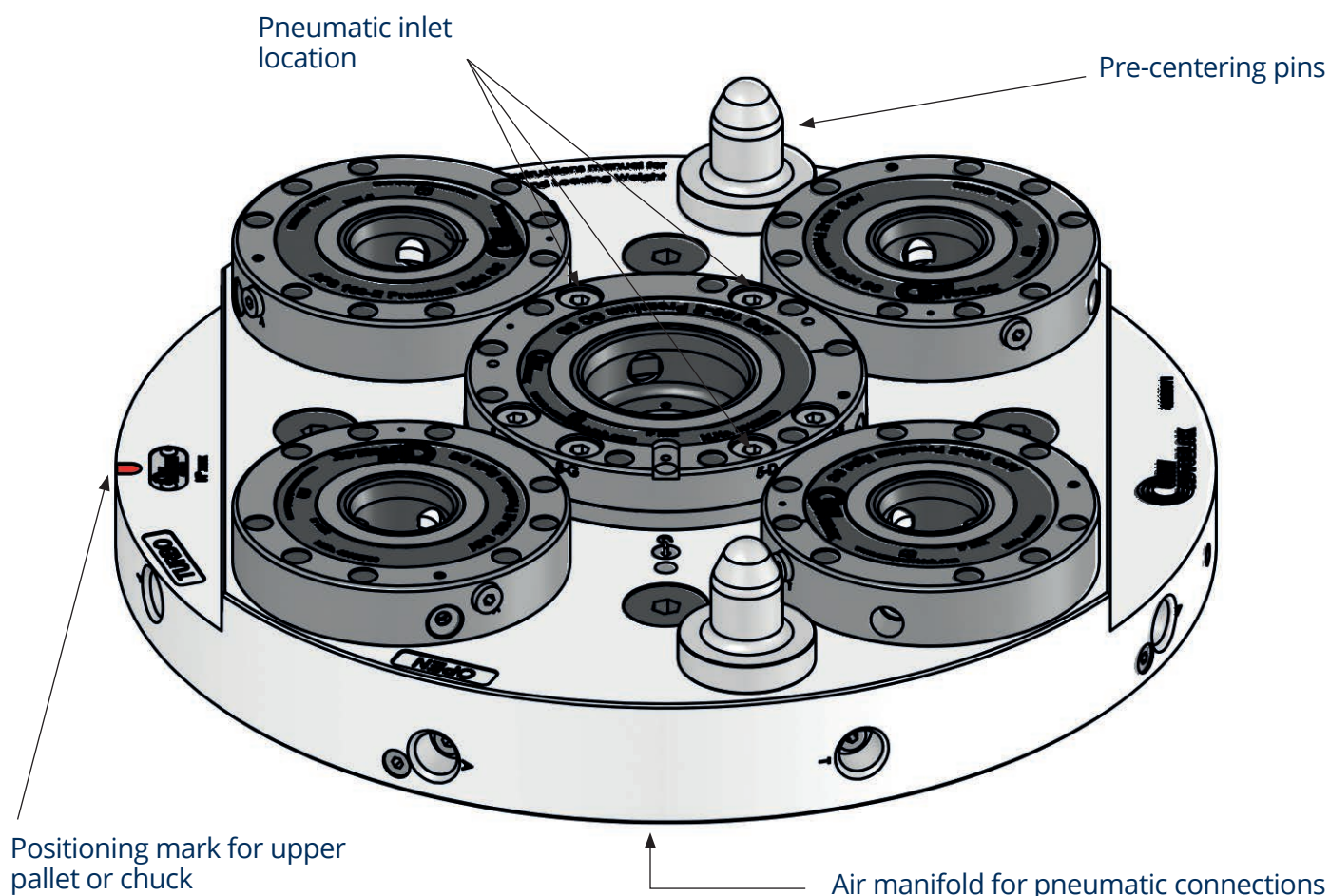
ROTARY PLATE Ø520

with APS 190 and 4 APS 160 automatic operation



3 PNEUMATIC FEEDINGS ON PALLET

Robot or manual tooling fast set-up for Ø 500 on turning workholding



Applications/Customer Benefits

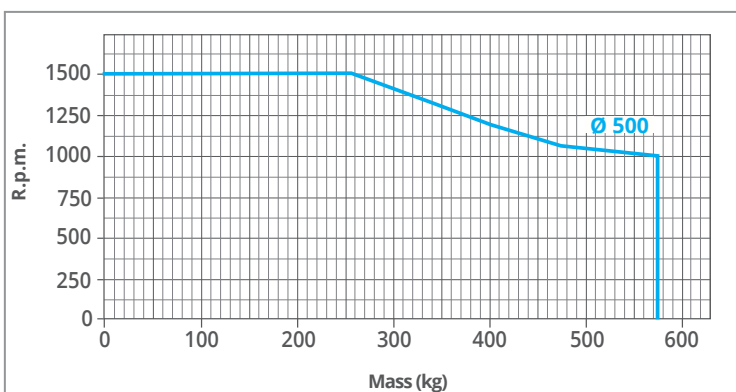
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm
- **3 pneumatic feedings (6 bar) available on pallet**

Technical features

- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

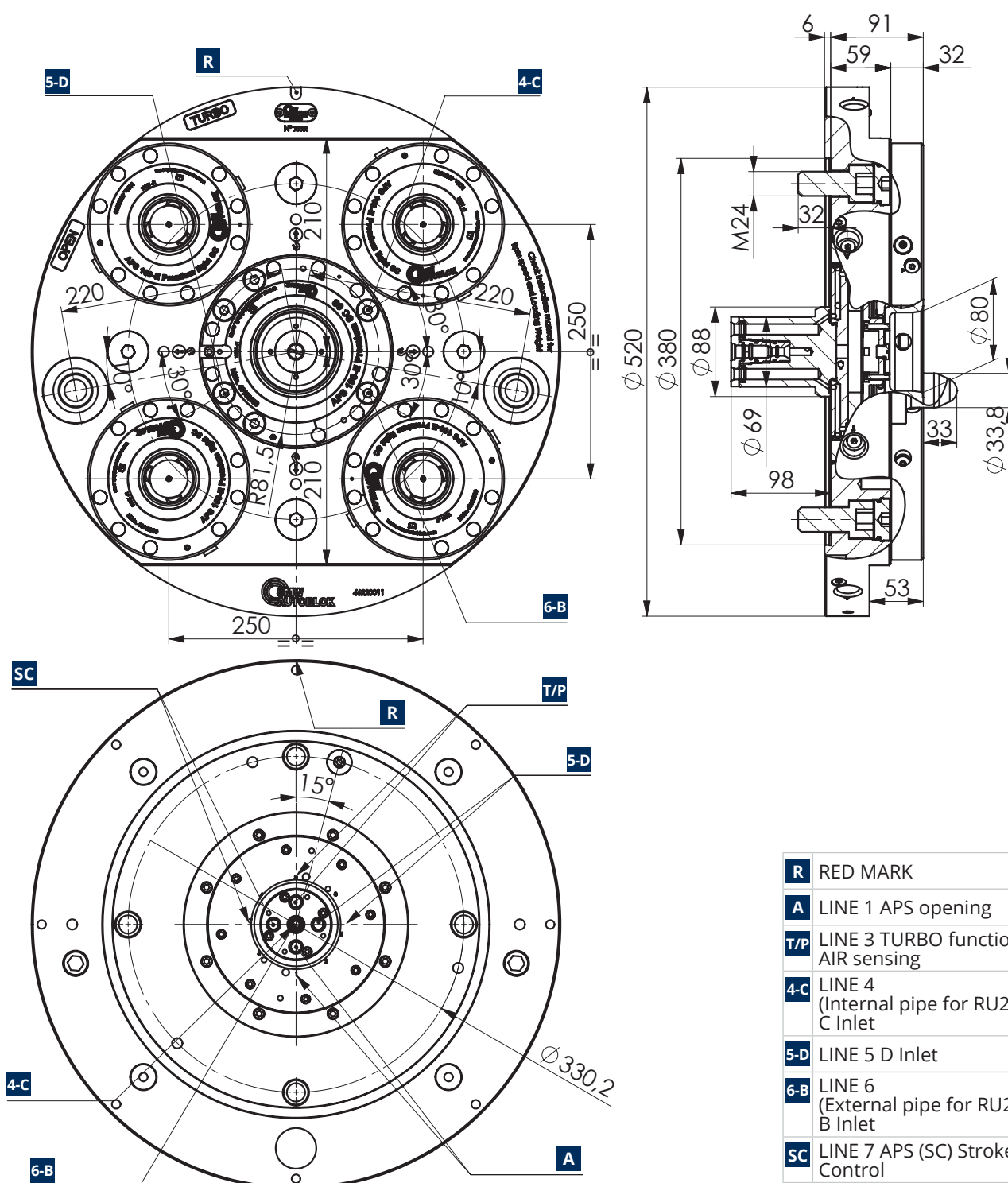
ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/ SC STROKE CONTROL PRESSURE	Ø500 PALLET MAX RPM (*)	WEIGHT Kg
Ø520 AUTOMATIC +3AIR	46220430	0,005 mm	165 kN	6 bar	0,5 bar	1500	115

Weight/Speed diagram



(*) Diagram is showing the rpm speed depending from:

- **total max weight on rotary plate**
(*fixture + workpiece*).
- **max overall dimension on rotary plate**
(*fixture + workpiece*)
Ø 520 and 400 mm total length

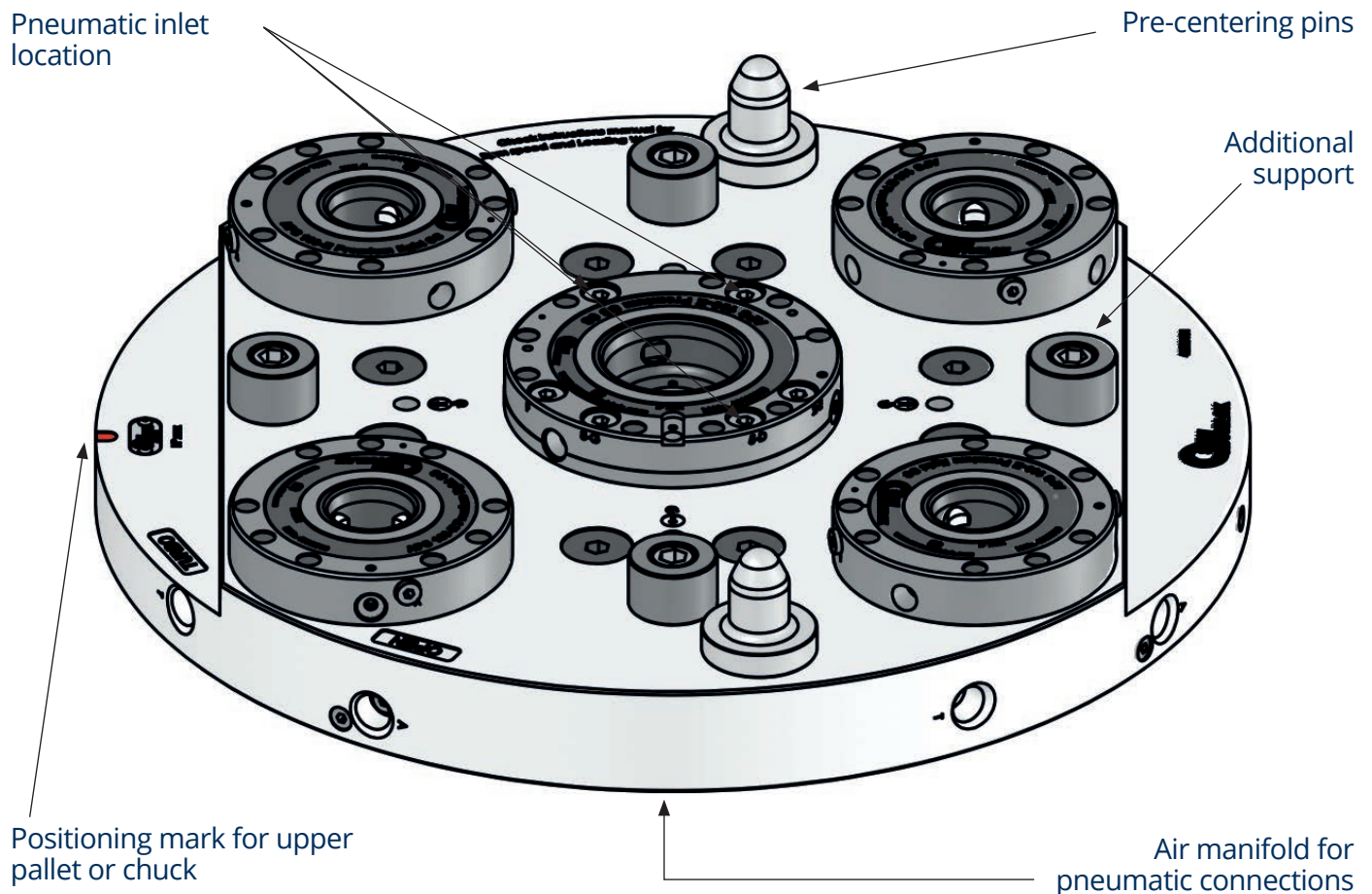


ROTARY PLATE Ø650

with APS 190 and 4 APS 160 automatic operation

3 PNEUMATIC FEEDINGS ON PALLET

Robot or manual tooling fast set-up for Ø 650 and Ø 800 on turning workholding



Applications/Customer Benefits

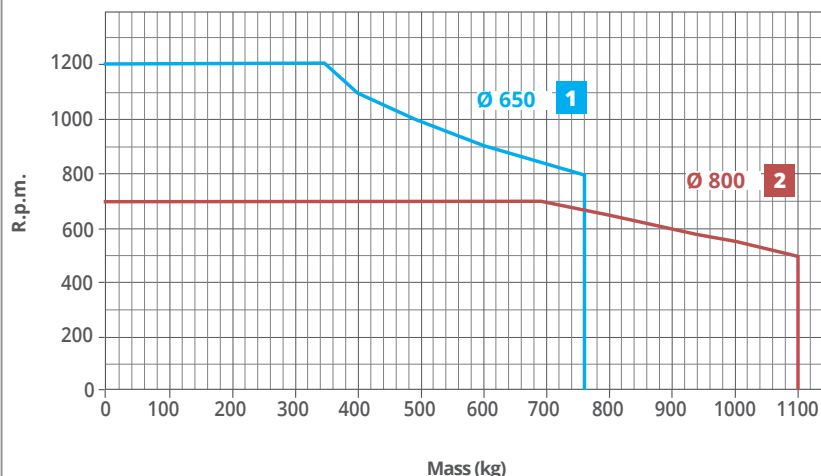
- Pallet/Tooling fast set-up on turning spindles
- Tooling presence Air sensing function
- SC stroke control function
- Positioning accuracy < 0,005 mm
- **3 pneumatic feedings (6 bar) available on pallet**

Technical features

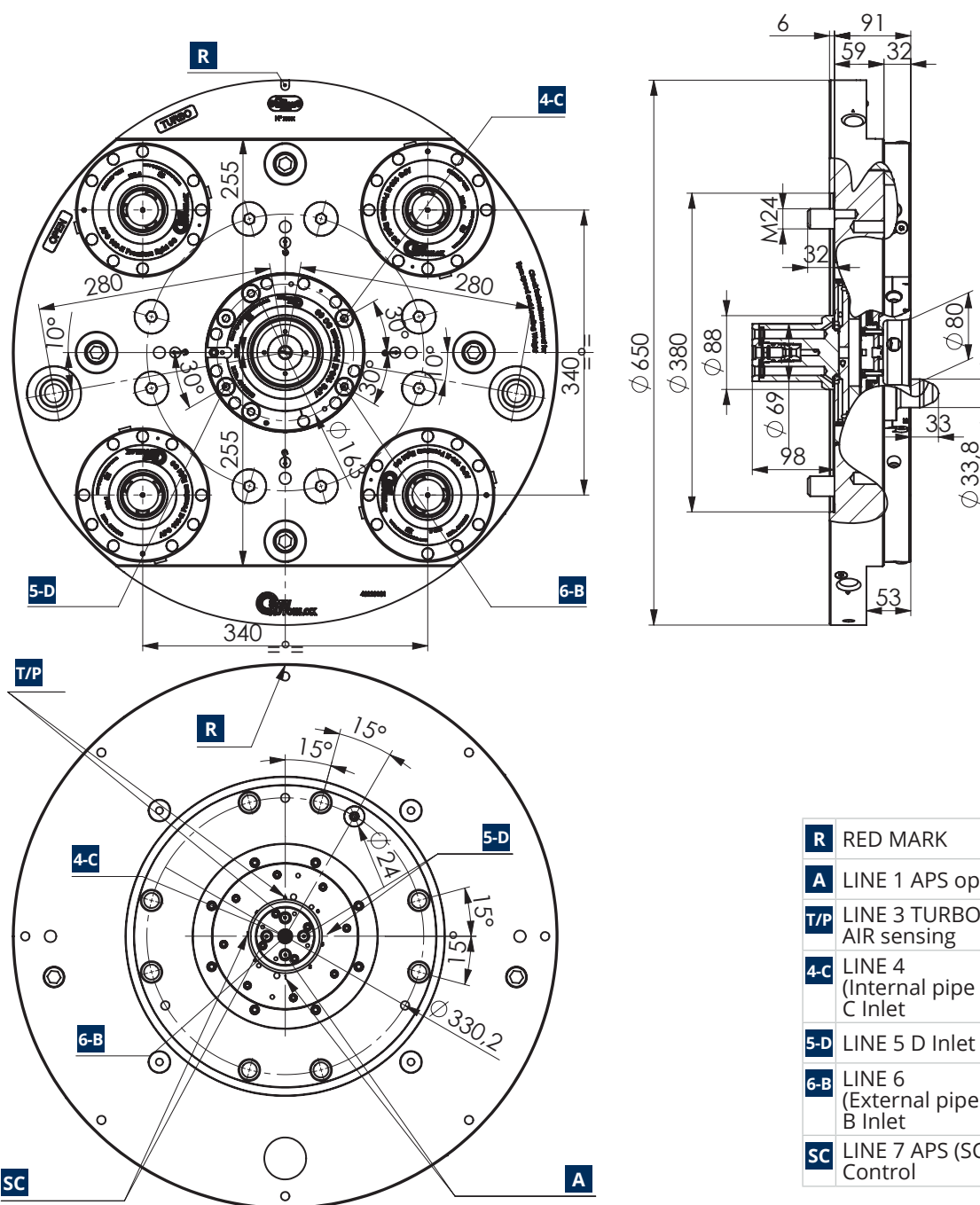
- Case hardened main components to assure better accuracy and long operating life
- Pneumatic opening
- Closing by spring + Turbo function
- Opening/closing automatically operated
- G6.3 balancing degree

ROTARY PLATE MODEL	ID.NO.	REPEATABILITY	CLAMPING FORCE BY TURBO AT 6 bar	MAX PRESSURE OPENING / CLOSING	AIR SENSING/ SC STROKE CONTROL PRESSURE	Ø650 PALLET MAX RPM (*)	Ø800 PALLET MAX RPM (**)	WEIGHT Kg
Ø650 AUTOMATIC +3AIR	46220440	0,005 mm	165 kN	6 bar	0,5 bar	1200	700	173

Weight/Speed diagram



- 1** (*) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece) $\varnothing 630$ and 450 mm total length
- 2** (**) Diagram is showing the rpm speed depending from:
- total max weight on rotary plate (fixture + workpiece).
 - max overall dimension on rotary plate (fixture + workpiece) $\varnothing 630$ and 450 mm total length

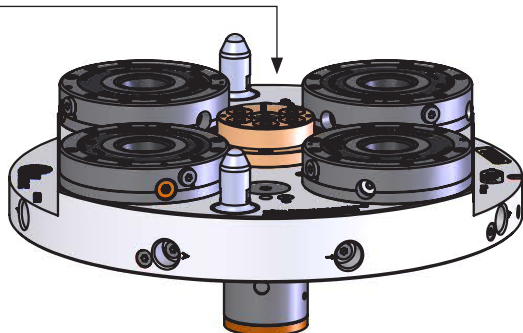


ROTARY PLATE ASSEMBLY LINE

for Automatic operation of APS modules+3 pneumatic feedings on pallet

Manual or robot pallet tooling fast set-up

Special Pallet

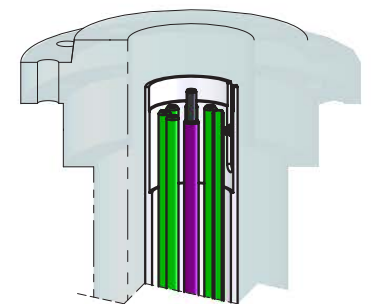


Mod. ID.No. Automatic
ROTARY PLATE
+3 pneumatic line

Ø202	46220480
Ø260	46220520
Ø420	46220420
Ø520	46220430
Ø650	46220440

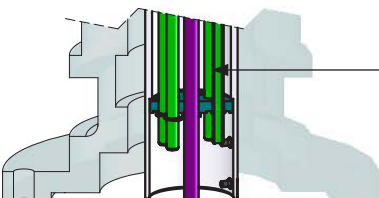


ISO-A flange [VIEW ACCESSORIES](#)



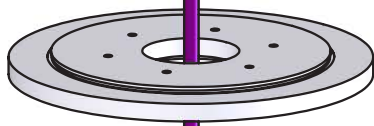
Pipe bundle

(to customize for each machine tool specifically)



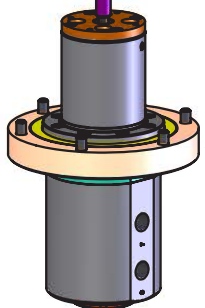
Manifold flange

(to customize for each machine tool specifically)



60580010 [VIEW ACCESSORIES](#)

4-pneumatic feedings manifold



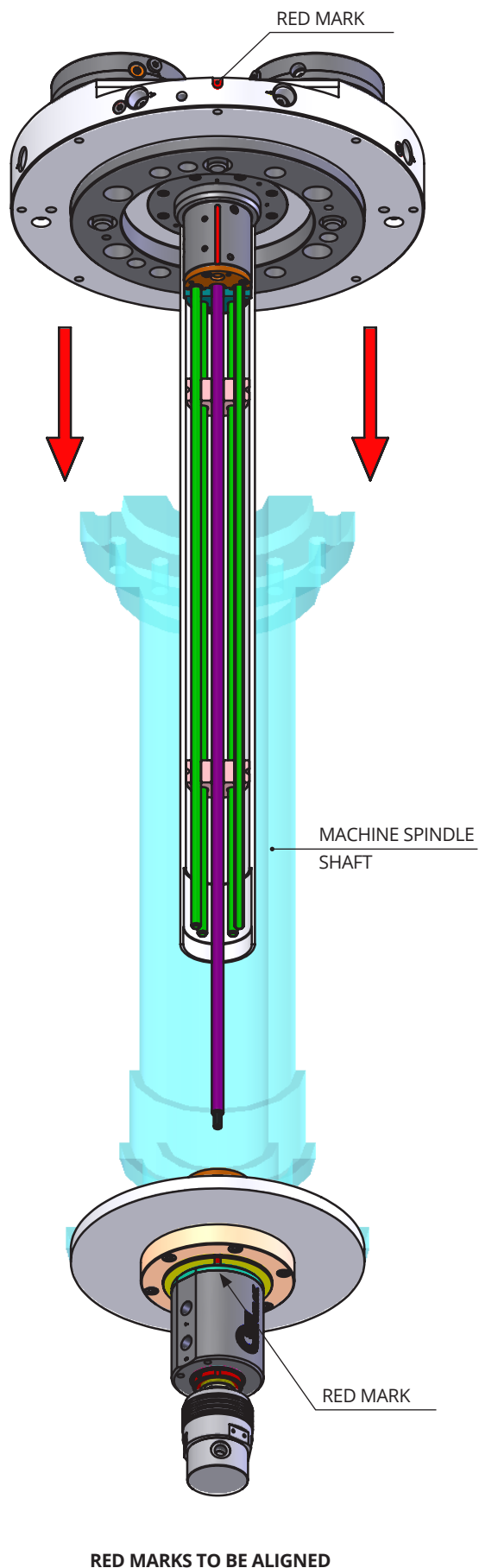
60589010

KIT RU2

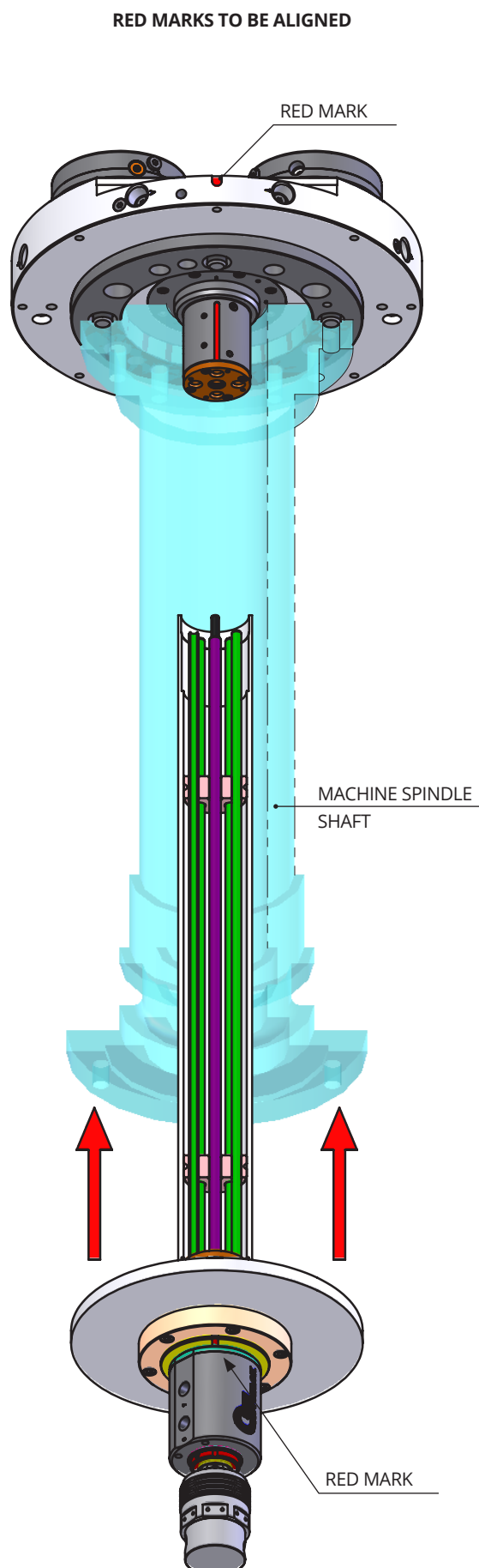
PIPE BUNDLE

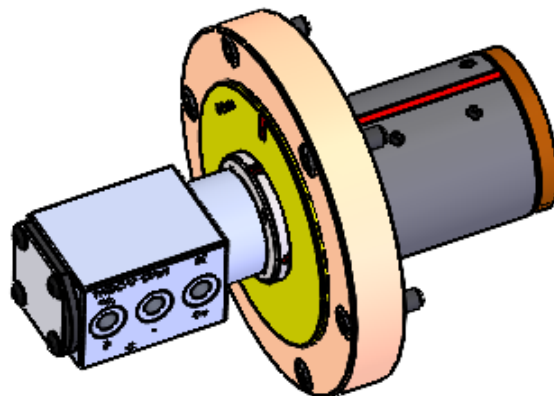
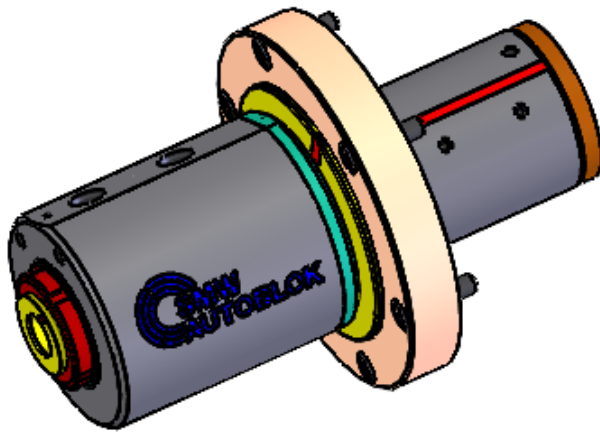
for Automatic operation of APS modules+3 pneumatic feedings on pallet

PIPE BUNDLE assembly from ROTARY PLATE side

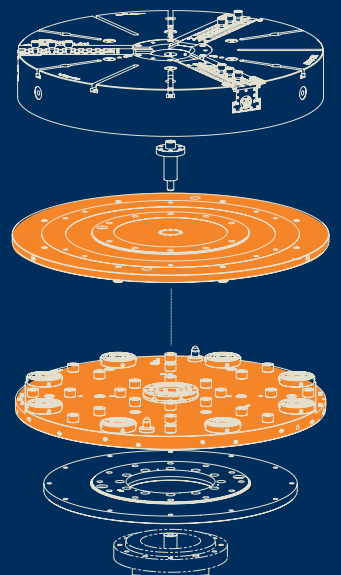


PIPE BUNDLE assembly from MANIFOLD side



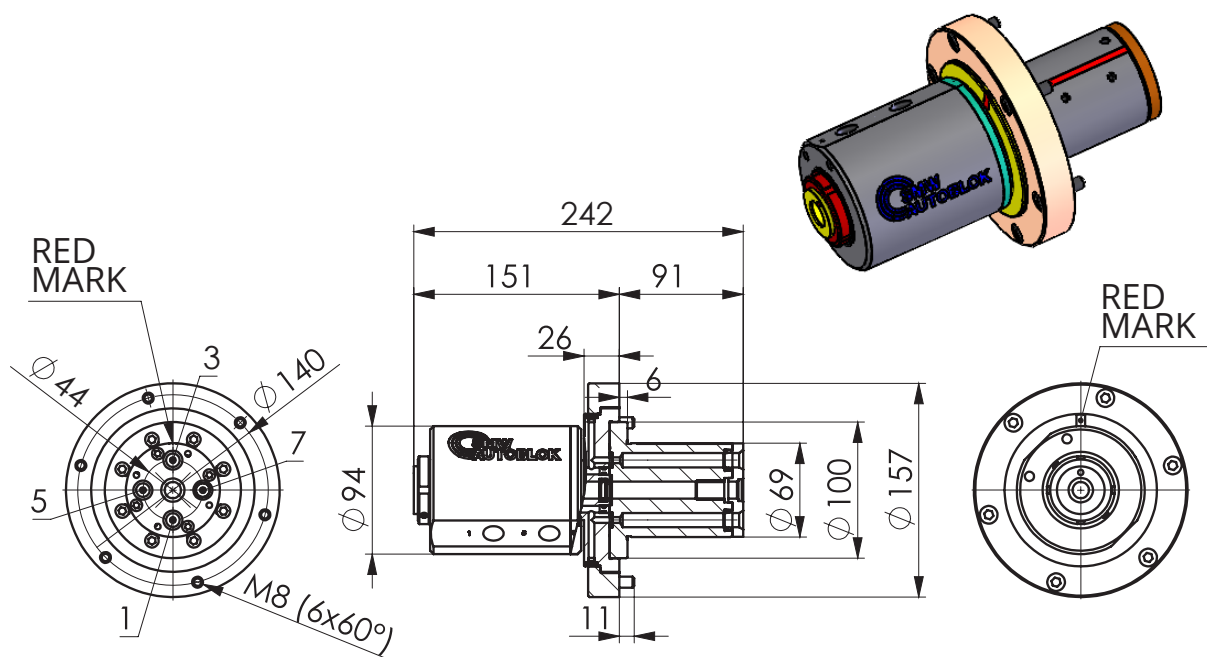


ACCESSORIES



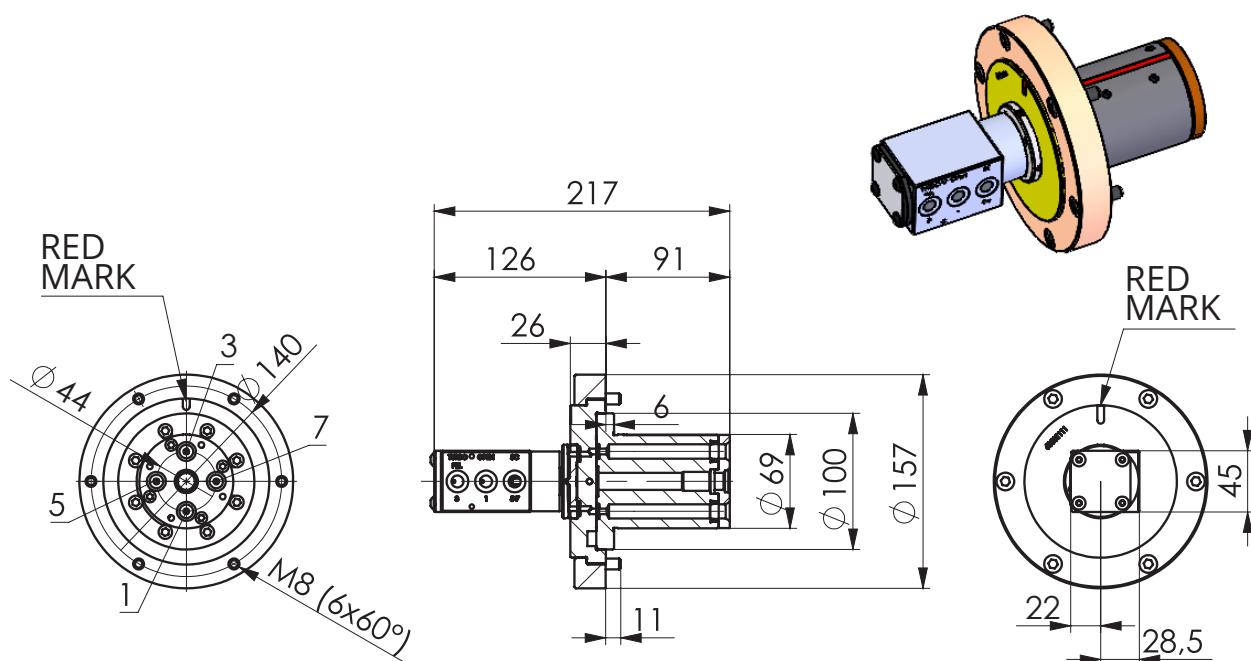
PNEUMATIC ROTATING MANIFOLDS

4 PNEUMATIC Feedings ROTATING MANIFOLD to use with standard RU 2-22 rotating joint



ID.NO. AND MANIFOLD MODEL	MAX PRESSURE DURING ROTATION	MAX PRESSURE DURING NO ROTATION	MAX RPM SPEED	WEIGHT
60580010 - 4 PNEUMATIC Feedings	2 bar	6 bar	1500	11 kg

3 PNEUMATIC Feedings ROTATING MANIFOLD for APS modules Automatic operation



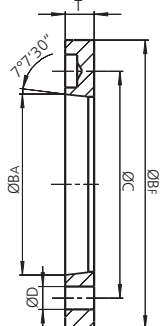
ID.NO. AND MANIFOLD MODEL	MAX PRESSURE DURING ROTATION	MAX PRESSURE DURING NO ROTATION	MAX RPM SPEED	WEIGHT
60580011 - 3 PNEUMATIC Feedings	2 bar	6 bar	3500	6,5 kg

ISO-A FLANGE FOR DIRECT CHUCK MOUNTING ON SHORT CONE MACHINE SPINDLE - DIN 55026 / ISO-A 702/

- direct or indirect assembly
- increasing or reduction adapting flanges

TYPE FF1

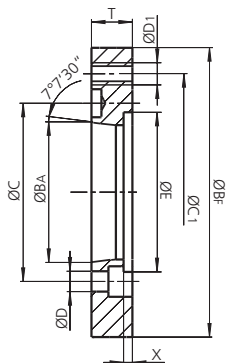
ISO-A direct assembly



Flange ID.No.	Machine tool spindle	BF mm	BA mm	C mm	D mm	T mm	Mass kg
24162000	A6	170	106.375	133.4	13.5	17	1.5
24162500	A6	170	106.375	133.4	13.5	24	2.2
24162100	A6	170	106.375	133.4	13.5	32	3
24162110	A6	170	106.375	133.4	13.5	40	3.2
24162120	A6	170	106.375	133.4	13.5	50	4
24162160	A6	170	106.375	133.4	13.5	60	5.2
24182500	A8	220	139.719	171.4	17	19	2.7
24182510	A8	220	139.719	171.4	17	27	4
24182539	A8	220	139.719	171.4	17	39	6
24182520	A8	220	139.719	171.4	17	43	6.5
24182530	A8	220	139.719	171.4	17	51	7.5
24182565	A8	220	139.719	171.4	17	65	9.5
24182577	A8	220	139.719	171.4	17	76	11
24182590	A8	220	139.719	171.4	17	100	16
24113100	A11	300	196.869	235	21	21	5.5
24113110	A11	300	196.869	235	21	30	8
24114038	A11	300	196.869	235	21	40	10
24114030	A11	300	196.869	235	21	43	11
24114040	A11	300	196.869	235	21	65	16
24113190	A11	300	196.869	235	21	90	22
24125000	A15	380	285.775	330.2	25	23	8
24127110	A15	380	285.775	330.2	25	28	10
24127100	A15	380	285.775	330.2	25	33	11.5
24125040	A15	380	285.775	330.2	25	50	17
24125084	A15	380	285.775	330.2	25	90	33

TYPE FF2

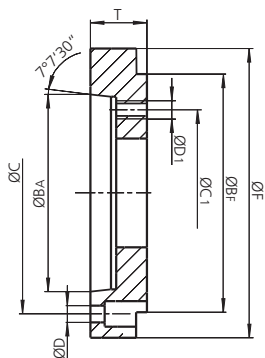
ISO-A reduction adapting assembly



Flange ID.No.	Machine tool spindle	BF mm	BA mm	C mm	D mm	C1 mm	D1 mm	E mm	X mm	T mm	Mass kg
24152000	A5	170	82.563	104.8	11.5	133.4	M12	-	-	24	2.7
24152500	A5	220	82.563	104.8	11.5	171.4	M16	-	-	24	5.5
24162530	A6	220	106.375	133.4	13.5	171.4	M16	-	-	24	5
24162533	A6	220	106.375	133.4	13.5	171.4	M16	-	-	40	8
24162532	A6	220	106.375	133.4	13.5	171.4	M16	-	-	50	7
24162555	A6	220	106.375	133.4	13.5	171.4	M16	-	-	55	10
24163100	A6	300	106.375	133.4	13.5	235	M20	155	10	30	11
24183100	A8	300	139.719	171.4	17	235	M20	-	-	30	11.5
24184000	A8	300	139.719	171.4	17	235	M20	155	10	40	15.5
24183045	A8	300	139.719	171.4	17	235	M20	155	10	45	15.5
24183085	A8	300	139.719	171.4	17	235	M20	155	10	85	27.5
24185000	A8	380	139.719	171.4	17	330.2	M24	197	10	40	24
24115000	A11	380	196.869	235	21	330.2	M24	197	10	40	21
24115020	A11	380	196.869	235	21	330.2	M24	197	10	56	27
24179400	A20	720	412.775	463.6	27	647.6	M30	-	-	50	93

TYPE FF3

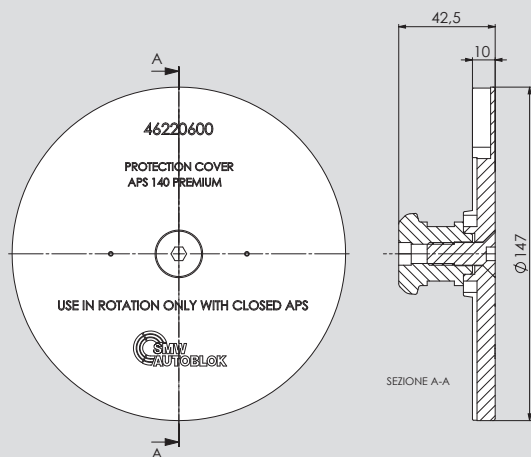
ISO-A increasing adapting assembly



Flange ID.No.	Machine tool spindle	BF mm	BA mm	C mm	D mm	C1 mm	D1 mm	F mm	T mm	Mass kg
24182010	A8	170	139.719	171.4	17	133.4	M12	210	40	6.2
24182110	A8	170	139.719	171.4	17	133.4	M12	210	56	8
24182170	A8	170	139.719	171.4	17	133.4	M12	210	70	8.5
24112540	A11	220	196.869	235	21	171.4	M16	280	40	10
24112510	A11	220	196.869	235	21	171.4	M16	280	45	11.8
24112520	A11	220	196.869	235	21	171.4	M16	280	55	13
24112565	A11	220	196.869	235	21	171.4	M16	280	65	15.5
24112570	A11	220	196.869	235	21	171.4	M16	280	70	18
24112580	A11	220	196.869	235	21	171.4	M16	280	85	19
24123110	A15	300	285.775	330.2	25	235	M20	380	50	22
24123175	A15	300	285.775	330.2	25	235	M20	380	75	29
24175000	A20	380	412.777	463.6	27	330.2	M24	520	58	55

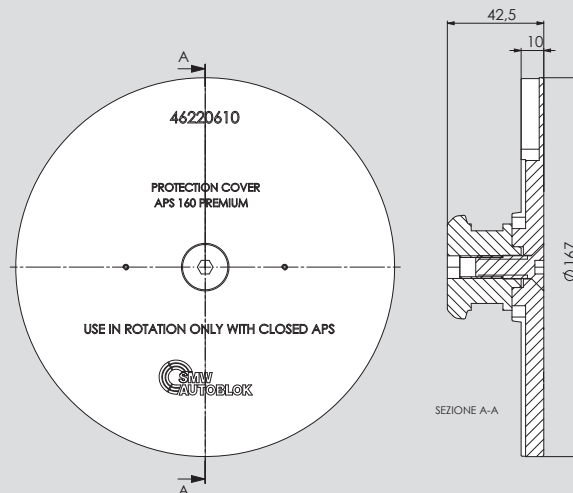
MAGNET PROTECTION COVERS for APS

USE IN ROTATION ONLY WITH CLOSED APS



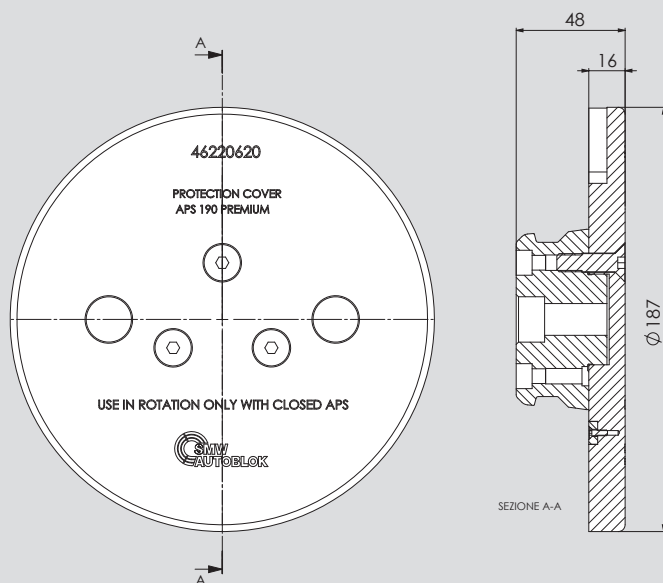
ID.No.	MODEL (APS IN ROTATION)	Weight
46220600	MAGNET PROTECTION COVER FOR APS 140 PREMIUM	0.65 Kg

USE IN ROTATION ONLY WITH CLOSED APS



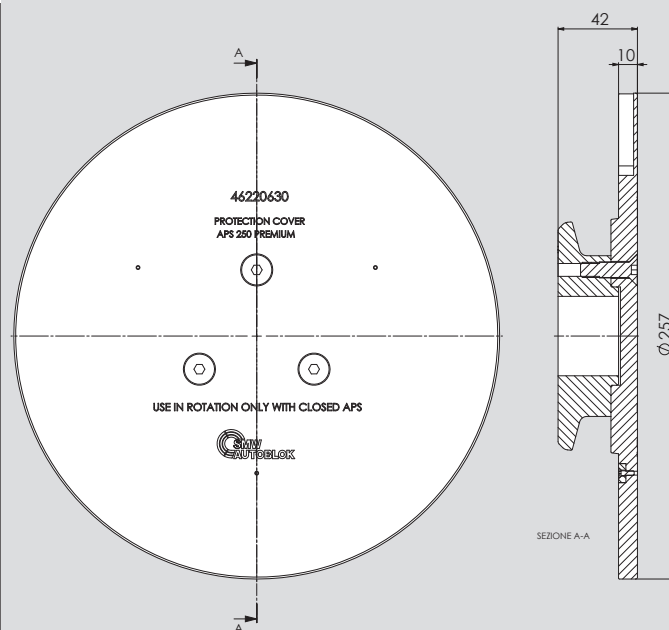
ID.No.	MODEL (APS IN ROTATION)	Weight
46220610	MAGNET PROTECTION COVER FOR APS 160 PREMIUM	0.9 Kg

USE IN ROTATION ONLY WITH CLOSED APS



ID.No.	MODEL (APS IN ROTATION)	Weight
46220620	MAGNET PROTECTION COVER FOR APS 190 PREMIUM	2.2 Kg

USE IN ROTATION ONLY WITH CLOSED APS



ID.No.	MODEL (APS IN ROTATION)	Weight
46220630	MAGNET PROTECTION COVER FOR APS 250 PREMIUM	2.9 Kg

ROTARY CATALOGUE PART NUMBERS listed by ID. No.

ID.NO.	DESCRIPTION	PAG.
24112510	ADAPTOR ISO-A11 D220 INCR H45	63
24112520	ADAPTOR ISO-A11 D220 INCR H55	63
24112540	ADAPTOR ISO-A11 D220 INCR H40	63
24112565	ADAPTOR ISO-A11 D220 INCR H65	63
24112570	ADAPTOR ISO-A11 D220 INCR H70	63
24112580	ADAPTOR ISO-A11 D220 INCR H85	63
24113100	ADAPTOR ISO-A11 D300 STD H21	63
24113110	ADAPTOR ISO-A11 D300 STD H30	63
24113190	ADAPTOR ISO-A11 D300 STD H90	63
24114030	ADAPTOR ISO-A11 D300 STD H43	63
24114038	ADAPTOR ISO-A11 D300 STD H40	63
24114040	ADAPTOR ISO-A11 D300 STD H65	63
24115000	ADAPTOR ISO-A11 D380 RED H40	63
24115020	ADAPTOR ISO-A11 D380 RED H56	63
24123110	ADAPTOR ISO-A15 D300 INCR H50	63
24123175	ADAPTOR ISO-A15 D300 INCR H75	63
24125000	ADAPTOR ISO-A15 D380 STD H23	63
24125040	ADAPTOR ISO-A15 D380 HS50	63
24125084	ADAPTOR ISO-A15 D380 H90	63
24127100	ADAPTOR ISO-A15 D380 STD H33	63
24127110	ADAPTOR ISO-A15 D380 STD H28	63
24152000	ADAPTOR ISO-A5 D170 RED H24	63
24152500	ADAPTOR ISO-A5 D220 RED H24	63
24162000	ADAPTOR ISO-A6 D170 STD H17	63
24162100	ADAPTOR ISO-A6 D170 STD H32	63
24162110	ADAPTOR ISO-A6 D170 STD H40	63
24162120	ADAPTOR ISO-A6 D170 H50	63
24162160	ADAPTOR ISO-A6 D170 H60	63
24162500	ADAPTOR ISO-A6 D170 STD H24	63
24162530	ADAPTOR ISO-A6 D220 RED H24	63
24162532	ADAPTOR ISO-A6 D220 RED H50	63
24162533	ADAPTOR ISO-A6 D220 RED H40	63
24162555	ADAPTOR ISO-A6 D220 RED H55	63
24163100	ADAPTOR ISO-A6 D300 RED H30	63
24175000	ADPT ISO-A20 D380-520 500-IN	63
24179400	ADAPTOR ISO-A20 D720 RED H50	63
24182010	ADAPTOR ISO-A8 D170 INCR H40	63
24182110	ADAPTOR ISO-A8 D170 INCR H56	63
24182170	ADAPTOR ISO-A8 D170 INCR H70	63
24182500	ADAPTOR ISO-A8 D220 STD H19	63
24182510	ADAPTOR ISO-A8 D220 STD H27	63
24182520	ADAPTOR ISO-A8 D220 STD H43	63
24182530	ADAPTOR ISO-A8 D220 STD H51	63
24182539	ADAPTOR ISO-A8 D220 STD H39	63
24182565	ADAPTOR ISO-A8 D220 STD H65	63
24182577	ADPT ISO-A8 220 STD2-3-4GR H76	63
24182590	ADAPTOR ISO-A8 D220 H100	63
24183045	ADAPTOR ISO-A8 D300 RED H45	63
24183085	ADAPTOR ISO-A8 D300 RED H85	63
24183100	ADAPTOR ISO-A8 D300 RED H30	63
24184000	ADPT ISO-A8 D300 RED 400GH H40	63
24185000	ADAPTOR ISO-A8 D380 RED H40	63
46200015	PALLET SING APS190 D202H23	6
46200055	PAL D202 APS190 AUT125-160-200	6
46200092	PALLET APS190 D208 FOR HG 160	6

46200093	PALLET APS190 D208 FOR HG 210	6
46200250	PALLET-AUT 2PC VIT-CENT APS190	6
46200255	SMF SUP-ATR 2PC V-CENT APS190	6
46200270	PALLET-AUT 100-125GT5 APS190	6
46201505	PALLET APS250T CHUCKS FL170 ROB	11
46201515	PALLET APS250T CHUCKS FL220 ROB	11
46201525	PALLET SMF D254X29 APS250T ROB	10
46201535	PALLET APS190T CHUCKS FL140 ROB	7
46201545	PALLET APS190T CHUCKS FL170 ROB	7
46220010	ROTARY PLATE D520 4APS160 MAN	16
46220030	ROTARY PLATE GR D1000 MAN	24
46220040	ROTARY PLATE GR D1420 MAN	28
46220050	GR PALLET ROT D520 CENT380	18
46220060	GR PALLET ROT D650 CENT380	22
46220070	ROT PALLET GR D1000 CENT520	26
46220080	ROT PALLET GR D1420 CENT720	30
46220090	ROTARY PLATE D520 4APS160 AUT	40
46220100	ROTARY PLATE D650 4APS160 MAN	20
46220140	ROTARY PLATE D650 4APS160 AUT	42
46220180	GR PALLET ROT D650 CENT520	22
46220200	ROT PALLET GR D420 SEMIF	14
46220280	GR PALLET RT D520 SEMIF	18
46220290	GR PALLET ROT D650 SEMIF	22
46220300	GR PALLET ROT D800 SEMIF	22
46220310	ROT PALLET GR D1000 SEMIF	26
46220320	ROT PALLET GR APS1250 SEMIF	26
46220330	ROT PALLET GR D1420 SEMIF	30
46220340	ROT PALLET GR D1600 SEMIF	30
46220390	ROTARY PLATE D420 4APS140 MAN	12
46220400	ROTARY PLATE D420 4APS140 AUT	38
46220420	ROTARY PLATE 420 AUT 3AIR	52
46220430	ROTARY PLATE 520 AUT 3AIR	54
46220440	ROTARY PLATE 650 AUT 3AIR	56
46220450	ROTARY PLATE D202 APS190 MAN	4
46220460	ROTARY PLATE D202 APS190 AUT	34
46220480	ROTARY PLATE 202 AUT 3AIR	48
46220490	ROTARY PLATE D260 APS250 MAN	8
46220500	ROTARY PLATE D260 APS250 AUT	36
46220520	ROTARY PLATE 260 AUT 3AIR	50
46220540	ROT PALLET GR D420 CENT380	14
46220550	ROT PALLET GR D420 CENT300	14
46220600	MAG. PROT. COV. for APS140 PREMIUM	64
46220610	MAG. PROT. COV. for APS160 PREMIUM	64
46220620	MAG. PROT. COV. for APS190 PREMIUM	64
46220630	MAG. PROT. COV. for APS250 PREMIUM	64
60580010	DISTR 4P+STROKE CONTROL	62
60580011	ROT DISTRIB PN 3-VIE PLATE APS	62
60589010	RU2-22+BUSH+OR ROTARY PLATE KIT	58
71612801	QUICK MOUNTING F 1/8 0101003	6

ROTARY CATALOGUE PART NUMBERS listed by page

ID.NO.	DESCRIPTION	PAG.			
46220450	ROTARY PLATE D202 APS190 MAN	4	24113110	ADAPTOR ISO-A11 D300 STD H30	63
46200015	PALLET SING APS190 D202H23	6	24113190	ADAPTOR ISO-A11 D300 STD H90	63
46200055	PAL D202 APS190 AUT125-160-200	6	24114030	ADAPTOR ISO-A11 D300 STD H43	63
46200092	PALLET APS190 D208 FOR HG 160	6	24114038	ADAPTOR ISO-A11 D300 STD H40	63
46200093	PALLET APS190 D208 FOR HG 210	6	24114040	ADAPTOR ISO-A11 D300 STD H65	63
46200250	PALLET-AUT 2PC VIT-CENT APS190	6	24115000	ADAPTOR ISO-A11 D380 RED H40	63
46200255	SMF SUP-ATR 2PC V-CENT APS190	6	24115020	ADAPTOR ISO-A11 D380 RED H56	63
46200270	PALLET-AUT 100-125GT5 APS190	6	24123110	ADAPTOR ISO-A15 D300 INCR H50	63
71612801	QUICK MOUNTING F 1/8 0101003	6	24123175	ADAPTOR ISO-A15 D300 INCR H75	63
46201535	PALLET APS190T CHUCKS FL140 ROB	7	24125000	ADAPTOR ISO-A15 D380 STD H23	63
46201545	PALLET APS190T CHUCKS FL170 ROB	7	24125040	ADAPTOR ISO-A15 D380 HS50	63
46220490	ROTARY PLATE D260 APS250 MAN	8	24125084	ADAPTOR ISO-A15 D380 H90	63
46201525	PALLET APS250T CHUCKS FL170 ROB	10	24127100	ADAPTOR ISO-A15 D380 STD H33	63
46201505	PALLET APS250T CHUCKS FL220 ROB	11	24127110	ADAPTOR ISO-A15 D380 STD H28	63
46201515	PALLET SMF D254X29 APS250T ROB	11	24152000	ADAPTOR ISO-A5 D170 RED H24	63
46220390	ROTARY PLATE D420 4APS140 MAN	12	24152500	ADAPTOR ISO-A5 D220 RED H24	63
46220200	ROT PALLET GR D420 SEMIF	14	24162000	ADAPTOR ISO-A6 D170 STD H17	63
46220540	ROT PALLET GR D420 CENT380	14	24162100	ADAPTOR ISO-A6 D170 STD H32	63
46220550	ROT PALLET GR D420 CENT300	14	24162110	ADAPTOR ISO-A6 D170 STD H40	63
46220010	ROTARY PLATE D520 4APS160 MAN	16	24162120	ADAPTOR ISO-A6 D170 H50	63
46220050	GR PALLET ROT D520 CENT380	18	24162160	ADAPTOR ISO-A6 D170 H60	63
46220280	GR PALLET RT D520 SEMIF	18	24162500	ADAPTOR ISO-A6 D170 STD H24	63
46220100	ROTARY PLATE D650 4APS160 MAN	20	24162530	ADAPTOR ISO-A6 D220 RED H24	63
46220060	GR PALLET ROT D650 CENT380	22	24162532	ADAPTOR ISO-A6 D220 RED H50	63
46220180	GR PALLET ROT D650 CENT520	22	24162533	ADAPTOR ISO-A6 D220 RED H40	63
46220290	GR PALLET ROT D650 SEMIF	22	24162555	ADAPTOR ISO-A6 D220 RED H55	63
46220300	GR PALLET ROT D800 SEMIF	22	24163100	ADAPTOR ISO-A6 D300 RED H30	63
46220030	ROTARY PLATE GR D1000 MAN	24	24175000	ADPT ISO-A20 D380-520 500-IN	63
46220070	ROT PALLET GR D1000 CENT520	26	24179400	ADAPTOR ISO-A20 D720 RED H50	63
46220310	ROT PALLET GR D1000 SEMIF	26	24182010	ADAPTOR ISO-A8 D170 INCR H40	63
46220320	ROT PALLET GR APS1250 SEMIF	26	24182110	ADAPTOR ISO-A8 D170 INCR H56	63
46220040	ROTARY PLATE GR D1420 MAN	28	24182170	ADAPTOR ISO-A8 D170 INCR H70	63
46220080	ROT PALLET GR D1420 CENT720	30	24182500	ADAPTOR ISO-A8 D220 STD H19	63
46220330	ROT PALLET GR D1420 SEMIF	30	24182510	ADAPTOR ISO-A8 D220 STD H27	63
46220340	ROT PALLET GR D1600 SEMIF	30	24182520	ADAPTOR ISO-A8 D220 STD H43	63
46220460	ROTARY PLATE D202 APS190 AUT	34	24182530	ADAPTOR ISO-A8 D220 STD H51	63
46220500	ROTARY PLATE D260 APS250 AUT	36	24182539	ADAPTOR ISO-A8 D220 STD H39	63
46220400	ROTARY PLATE D420 4APS140 AUT	38	24182565	ADAPTOR ISO-A8 D220 STD H65	63
46220090	ROTARY PLATE D520 4APS160 AUT	40	24182577	ADPT ISO-A8 220 STD2-3-4GR H76	63
46220140	ROTARY PLATE D650 4APS160 AUT	42	24182590	ADAPTOR ISO-A8 D220 H100	63
46220480	ROTARY PLATE 202 AUT 3AIR	48	24183045	ADAPTOR ISO-A8 D300 RED H45	63
46220520	ROTARY PLATE 260 AUT 3AIR	50	24183085	ADAPTOR ISO-A8 D300 RED H85	63
46220420	ROTARY PLATE 420 AUT 3AIR	52	24183100	ADAPTOR ISO-A8 D300 RED H30	63
46220430	ROTARY PLATE 520 AUT 3AIR	54	24184000	ADPT ISO-A8 D300 RED 400GH H40	63
46220440	ROTARY PLATE 650 AUT 3AIR	56	24185000	ADAPTOR ISO-A8 D380 RED H40	63
60589010	RU2-22+BUSH+OR ROTARY PLATE KIT	58	46220600	MAG. PROT. COV. for APS140 PREMIUM	64
60580010	DISTR 4P+STROKE CONTROL	62	46220610	MAG. PROT. COV. for APS160 PREMIUM	64
60580011	ROT DISTRIB PN 3-VIE PLATE APS	62	46220620	MAG. PROT. COV. for APS190 PREMIUM	64
24112510	ADAPTOR ISO-A11 D220 INCR H45	63	46220630	MAG. PROT. COV. for APS250 PREMIUM	64
24112520	ADAPTOR ISO-A11 D220 INCR H55	63			
24112540	ADAPTOR ISO-A11 D220 INCR H40	63			
24112565	ADAPTOR ISO-A11 D220 INCR H65	63			
24112570	ADAPTOR ISO-A11 D220 INCR H70	63			
24112580	ADAPTOR ISO-A11 D220 INCR H85	63			
24113100	ADAPTOR ISO-A11 D300 STD H21	63			

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