

## 9 Mowidec-TT

9.3 Spindle centering system Mowidec-TT

9.11 Summary by machine types





# Spindle centering system Mowidec-TT

MOWIDEC-TT



## REVOLUTIONARY

New spindle centring system :

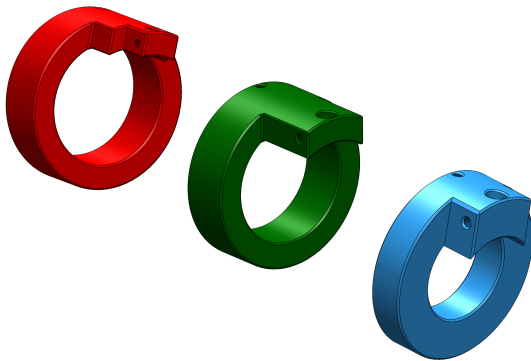
- FAST
- PRECISE
- EFFICIENT
- SIMPLE

Available at last for all bar turning or mechanical machines.  
Useable whenever spindle centring is necessary.

USEABLE FOR :

- Spindles
- Counter-spindles
- End toolholders
- Back-working operations

Already used on sliding headstock lathes (bar turning), machining centers, transfer machines, presses, hobbing machines and many other possible applications



Mowidec-TT

# Spindle centering system Mowidec-TT

## Centering set



Item No	Description
Kit	Centering Set complete according machine type on request

## Electronic unit with display



Item No	Description
Mowi-boîtier V2.0	Read out unit with battery power supply with USB cable

## Connection cable



Item No	Description
Mowi-connect-400	Connection cable for Sensor Ø 4 mm + square sensor
Mowi-connect-650	Connection cable fo Sensor Ø 6.5 mm

Mowidec-TT

## Standard sensors



Item No	Description
Mowi-det-400	Probe Ø 4 mm incl. brass protection
Mowi-det-400-nano	Probe Ø 4 mm incl. brass protection for Swiss Nano
Mowi-det-650	Probe Ø 6.5 mm incl. brass protection

# Spindle centering system Mowidec-TT

## Square sensor



Item No	Description
Mowi-det-H	Square Sensor 5.00 x 5.00 mm

## Flat sensor



Item No	Description
Mowi-Det-P	Flat probe (16x8x4.8 mm) incl. integrated cable 2 M and USB plug
Mowi-Det-S	Flat probe 8x4.8x16 mm incl. integrated cable length 20 cm (connection to MOWI-Connect-400)

## Adaptation kit



Item No	Description
Mowi-det-H	Square Sensor 5.00 x 5.00 mm
Mowi-kit-addet-H	Support for sensor Mowi-det-H including short and long holder to be used on all rings
Mowi-kit-addet-H+	Adaptation kit for sensor Mowi-det-H including sensor, short and long support to be used on all rings

## Power supply cable



Item No	Description
Mowi-trans-EU	Power supply cable 100-240V with transformer 5V / 50 - 60 Hz
Mowi-trans-USA	Power supply cable 100-240V with transformer 5V / 50 - 60 Hz USA

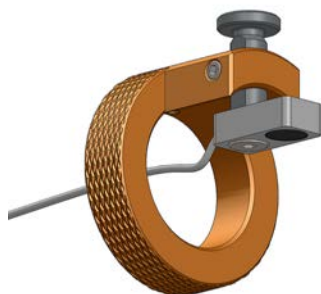
# Spindle centering system Mowidec-TT

## Centering holder



Item No	Description
Mowi-Det-S	Flat probe 8x4.8x16 mm incl. integrated cable length 20 cm (connection to MOWI-Connect-400)
Mowi-T-5	Mobile centering head for cap. $\varnothing$ 0.5-2.5 mm (without probe), shank $\varnothing$ 5.0 x 20.0 mm
Mowi-T-7	Mobile centering head for cap. $\varnothing$ 2.0-5.0 mm (without probe), shank $\varnothing$ 7.0 x 20.0 mm
Mowi-TS-5	Mobile centering head for cap. $\varnothing$ 0.5-2.5 mm, shank $\varnothing$ 5.0 x 20.0 mm, complete, incl. Flat probe Mowi-Det-S
Mowi-TS-7	Mobile centering head for cap. $\varnothing$ 2.0-5.0 mm, shank $\varnothing$ 7.0 x 20.0 mm, complete, incl. Flat probe Mowi-Det-S

## Adaptation kit R04
















Item No	Description	Sensor
151725	Adapter ring $\varnothing$ 23.00 mm	Mowi-det-S
Mowi-Det-S	Flat probe 8x4.8x16 mm incl. integrated cable length 20 cm (connection to MOWI-Connect-400)	
Mowi-kit-R04	Mowidec centrer Kit for Citizen R04 complete (incl. ring $\varnothing$ 22.0 mm No.151725, one probe Mowi-Det-S, one pin and screw M3)	




















# Spindle centering system Mowidec-TT

## Rings















Item No	Description	Sensor	
150218	Adapter ring Ø 57.00 mm	Mowi-det-650	
150567	Adapter ring Ø 27.00 mm	Mowi-det-400	
150637	Adapter ring Ø 35.00 mm	Mowi-det-400	
150638	Adapter ring Ø 45.00 mm	Mowi-det-400	
150641	Adapter ring Ø 48.00 mm	Mowi-det-650	
150642	Adapter ring Ø 60.00 mm	Mowi-det-650	
150675	Adapter ring Ø 25.00 mm	Mowi-det-400	
150678	Adapter ring Ø 50.00 mm	Mowi-det-650	
150686	Adapter ring Ø 42.20 mm	Mowi-det-400	
150687	Adapter ring Ø 29.00 mm	Mowi-det-400	
150707	Adapter ring Ø 45.90 mm	Mowi-det-650	
150708	Adapter ring Ø 34.85 mm	Mowi-det-400	
150709	Bar cover head D25 (Blank) bore Ø 0.80 mm		
150709-xxx	Bar cover head D25 (Blank) bore Ø		
150711	Bar cover head D35 (Blank) bore Ø 1.50 mm		

# Spindle centering system Mowidec-TT

Rings		continuation...
Item No	Description	Sensor
150711-xxx	Bar cover head (Blank) bore Ø	
150717	Adapter ring Ø 48.95 mm	Mowi-det-650 
150721	Adapter ring Ø 54.00 mm	Mowi-det-650 
150722	Adapter ring Ø 51.85 mm	Mowi-det-650 
150723	Adapter ring Ø 67.00 mm	Mowi-det-650 
150724	Adapter ring Ø 61.00 mm	Mowi-det-650 
150725	Adapter ring Ø 32.00 mm	Mowi-det-400 
150726	Adapter ring Ø 36.00 mm	Mowi-det-400 
150735	Adapter ring Ø 50.25 mm	Mowi-det-650 
150736	Adapter ring Ø 64.25 mm	Mowi-det-650 
150761	Bar cover head D64 (Blank) bore Ø 5.00 mm	Mowi-det-650 
150761-xxx	Bar cover head (Blank) bore Ø	Mowi-det-650 
150870	Adapter ring Ø 23.00 mm	Mowi-det-400-nano 
Mowidec-kit-Nano	Complete kit for Swiss Nano content : 150870 + 150911 + Mowi-det-400	
150911	Bar cover head bore Ø 0.80 mm for ring 150870 Ø 23.00 mm	
150911-xxx	Adapter ring 150911 with bore on request	
150963	Adapter ring Ø 33.00 mm	Mowi-det-400 
151142	Adapter ring Ø 43.00 mm	Mowi-det-400 
151143	Adapter ring Ø 49.60 mm	Mowi-det-650 
151144	Adapter ring Ø 64.60 mm	Mowi-det-650 



# Spindle centering system Mowidec-TT

Rings			continuation...
Item No	Description	Sensor	
151184	Adapter ring Ø 38.00 mm	Mowi-det-400	
151202	Adapter ring Ø 58.00 mm	Mowi-det-650	
151203	Adapter ring Ø 65.00 mm	Mowi-det-650	
151204	Adapter ring Ø 44.00 mm	Mowi-det-650	
151205	Adapter ring Ø 76.00 mm	Mowi-det-650	
151214	Adapter ring Ø 66.00 mm	Mowi-det-650	
151215	Adapter ring Ø 37.00 mm	Mowi-det-400	
151217	Adapter ring Ø 75.00 mm	Mowi-det-650	
151219	Adapter ring Ø 56.00 mm	Mowi-det-650	
151383	Adapter ring Ø 55.00 mm	Mowi-det-650	
151524	Adapter ring Ø 70.00 mm	Mowi-det-650	
151725	Adapter ring Ø 23.00 mm	Mowi-det-S	

# Spindle centering system Mowidec-TT

## Alignment guide bushes

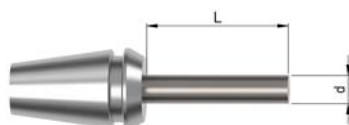


- Dummy guide bushes to align headstock and backspindle of some Swiss type lathes







Item No	Description
Mowi-1351-P-CP	Alignment guide bush 1351
Mowi-1352-P-CP	Alignment guide bush 1352
Mowi-1353-P-CP	Alignment guide bush 1353
Mowi-1603-P-CP	Alignment guide bush 1603
Mowi-223T-P-CP	Alignment guide bush 223T
Mowi-229T-P-CP	Alignment guide bush 229T
Mowi-39001T-P-CP	Alignment guide bush 39001T
Mowi-853-P-CP	Alignment guide bush 853
Mowi-605-P-CP	Alignment guide bush 605

Other types on request

## Master type ER Mowidec



Master with ER shank for tool posts centering

Item No	Description	Type	d	L	
Master ER8	Master ER8	ER8	3.00	8.00	
Master ER11	Master ER11	ER11	4.00	20.00	
Master ER16	Master ER16	ER16	6.00	30.00	
Master ER20	Master ER20	ER20	6.00	30.00	
Master ER25	Master ER25	ER25	6.00	30.00	
Master ER32	Master ER32	ER32	6.00	30.00	

# Summary by machine types

## Rings for TORNOS machines

Ring ref.	∅	Sensor	Placed on	Note
<b>CT 20</b>				
150761	5.00	Mowi-det-650	Guide bush	Blank
150218	57.00	Mowi-det-650	Sub-spindle	
<b>DECO 7</b>				
150567	27.00	Mowi-det-400	Guide bush	
150725	32.00	Mowi-det-400	Sub-spindle	
<b>DECO 10</b>				
150567	27.00	Mowi-det-400	Guide bush	
150637	35.00	Mowi-det-400	Sub-spindle	
<b>DECO 13</b>				
150637	35.00	Mowi-det-400	Guide bush	
150638	45.00	Mowi-det-400	Sub-spindle	
<b>DECO 20</b>				
150641	48.00	Mowi-det-650	Guide bush	
150642	60.00	Mowi-det-650	Sub-spindle	
<b>DECO 26</b>				
150641	48.00	Mowi-det-650	Guide bush	
150642	60.00	Mowi-det-650	Sub-spindle	
<b>DELTA 12</b>				
150725	32.00	Mowi-det-400	Guide bush	
150717	48.95	Mowi-det-650	Sub-spindle	
<b>DELTA 20</b>				
150963	33.00	Mowi-det-400	Guide bush	
150717	48.95	Mowi-det-650	Sub-spindle	
<b>ENC 75</b>				
150726	36.00	Mowi-det-400	Sub-spindle	
<b>EVO 10</b>				
150675	25.00	Mowi-det-400	Guide bush	
150637	35.00	Mowi-det-400	Sub-spindle	
<b>EVO 16</b>				
150637	35.00	Mowi-det-400	Guide bush	
150638	45.00	Mowi-det-400	Sub-spindle	
<b>GAMMA 20</b>				
150717	48.95	Mowi-det-650	Sub-spindle	
<b>GT 13</b>				
151142	49.60	Mowi-det-400	Guide bush	
151143	43.00	Mowi-det-650	Sub-spindle	
<b>GT 26</b>				
150642	60.00	Mowi-det-650	Guide bush	
151144	64.60	Mowi-det-650	Sub-spindle	
<b>MICRO 7</b>				
150675	25.00	Mowi-det-400	Guide bush	
150637	35.00	Mowi-det-400	Sub-spindle	
<b>MICRO 8</b>				
150637	35.00	Mowi-det-400	Sub-spindle	
<b>MULTISWISS</b>				
150678	50.00	Mowi-det-650	Sub-spindle	
<b>SIGMA 20</b>				
150641	48.00	Mowi-det-650	Guide bush	
150642	60.00	Mowi-det-650	Sub-spindle	

# Summary by machine types

Rings for TORNOS machines

suite ...

Ring ref.	∅	Sensor	Placed on	Note
<b>SIGMA 32</b>				
151205	76.00	Mowi-det-650	Sub-spindle	
<b>ST 26</b>				
150641	48.00	Mowi-det-650	Guide bush	
150642	60.00	Mowi-det-650	Sub-spindle	
<b>SWISS NANO</b>				
150911	0.80	Mowi-det-400 NANO	Material	Blank
150911-XXX	Material ∅	Mowi-det-400 NANO	Material	
150870	23.00	Mowi-det-400 NANO	Material	
150567	27.00	Mowi-det-400 NANO	Sub-spindle	
Mowi-kit-Nano			Complete kit available	
<b>MULTISWISS XL 6x32</b>				
151383	55.00	Mowi-det-650	Guide bush	
151524	70.00	Mowi-det-650	Sub-spindle	
<b>MULTISWISS XL 8x26</b>				
151383	55.00	Mowi-det-650	Guide bush	

# Summary by machine types

## Rings for CITIZEN machines

Ring ref.	∅	Sensor	Placed on	Note
<b>A20</b>				
151219	56.00	Mowi-det-650	Sub-spindle	
<b>B12</b>				
150686	42.20	Mowi-det-400	Sub-spindle	
<b>K12</b>				
150686	42.20	Mowi-det-400	Sub-spindle	
<b>K16</b>				
150686	42.20	Mowi-det-400	Sub-spindle	
<b>L16</b>				
150721	54.00	Mowi-det-650	Sub-spindle	
<b>L20</b>				
150735	50.25	Mowi-det-650	Sub-spindle	
<b>M12, M16</b>				
150686	42.20	Mowi-det-400	Sub-spindle	
<b>M20</b>				
150721	54.00	Mowi-det-650	Sub-spindle	
<b>M32</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>R04</b>				
151725	22.00	Mowi-det-S	Sub-spindle	
<b>R07</b>				
150687	29.00	Mowi-det-400	Sub-spindle	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.

# Summary by machine types

## Rings for STAR machines

Ring ref.	∅	Sensor	Placed on	Note
<b>ECAS20</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>KJR16</b>				
150735	50.25	Mowi-det-650	Sub-spindle	
<b>KJR25</b>				
151219	56.00	Mowi-det-650	Sub-spindle	
<b>KNC16 / 20</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>KNC25 / 32</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>RNC16</b>				
151204	44.00	Mowi-det-650	Sub-spindle	
<b>SA12 / 16</b>				
150707	45.90	Mowi-det-650	Sub-spindle	
<b>SB16</b>				
150707	45.90	Mowi-det-650	Sub-spindle	
<b>SE16</b>				
150707	45.90	Mowi-det-650	Sub-spindle	
<b>SI-12NP</b>				
150637	35.00	Mowi-det-400	Sub-spindle	
<b>SR10J</b>				
150708	34.85	Mowi-det-400	Sub-spindle	
<b>SR16</b>				
150735	50.25	Mowi-det-650	Sub-spindle	
<b>SR16R</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>SR20</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>SR20R</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>SR32</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>SR32J</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>SST16</b>				
150678	50.00	Mowi-det-650	Sub-spindle	
<b>SV12</b>				
150707	45.90	Mowi-det-650	Sub-spindle	
<b>SV20</b>				
150722	51.85	Mowi-det-650	Sub-spindle	
<b>SV32</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>SV32J</b>				
150736	64.25	Mowi-det-650	Sub-spindle	
<b>SW7</b>				
150686	42.20	Mowi-det-400	Sub-spindle	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.

# Summary by machine types

Rings for STAR machines

suite ...

Ring ref.	∅	Sensor	Placed on	Note
<b>SW7R</b>				
150686	42.20	Mowi-det-400	Sub-spindle	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.

# Summary by machine types

## Rings for TSUGAMI machines

Ring ref.	∅	Sensor	Placed on	Note
<b>B0205</b>				
150963	33.00	Mowi-det-400	Guide bush	
150717	48.95	Mowi-det-650	Sub-spindle	
<b>B07</b>				
150637	35.00	Mowi-det-400	Sub-spindle	
<b>BS12</b>				
150717	48.95	Mowi-det-650	Sub-spindle	
<b>BS12 / 13</b>				
150725	32.00	Mowi-det-400	Sub-spindle	
<b>BS18</b>				
150717	48.95	Mowi-det-650	Sub-spindle	
<b>BW20</b>				
150717	48.95	Mowi-det-650	Sub-spindle	
<b>HS20M</b>				
151203	65.00	Mowi-det-650	Guide bush	
150717	48.95	Mowi-det-650	Sub-spindle	
<b>HS32</b>				
151202	58.00	Mowi-det-650	Guide bush	
151203	65.00	Mowi-det-650	Sub-spindle	
<b>P03</b>				
150963	33.00	Mowi-det-400	Guide bush	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.



# Summary by machine types

## Rings for HANWHA machines

Ring ref.	∅	Sensor	Placed on	Note
<b>SL-12 SH</b>				
151215	37.00	Mowi-det-400	Sub-spindle	
<b>SL-20 SH</b>				
150724	61.00	Mowi-det-650	Sub-spindle	
<b>SL-32 HPD</b>				
150724	61.00	Mowi-det-650	Sub-spindle	
<b>SL-32-S / HE</b>				
150723	67.00	Mowi-det-650	Sub-spindle	
<b>STL-32H</b>				
150723	67.00	Mowi-det-650	Sub-spindle	
<b>XD-07</b>				
150725	32.00	Mowi-det-400	Sub-spindle	
<b>XD-12J</b>				
151215	37.00	Mowi-det-400	Sub-spindle	
<b>XD-20H</b>				
150721	54.00	Mowi-det-650	Sub-spindle	
<b>XD-26</b>				
150724	61.00	Mowi-det-650	Sub-spindle	
<b>XD-35</b>				
150723	67.00	Mowi-det-650	Sub-spindle	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.

# Summary by machine types

## Rings for TRAUB machines

Ring ref.	∅	Sensor	Placed on	Note
<b>TNL 12/7</b>				
150726	36.00	Mowi-det-400	Sub-spindle	
<b>TNL 18</b>				
151214	66.00	Mowi-det-650	Guide bush	
151203	65.00	Mowi-det-650	Sub-spindle	
<b>TNL 26 (F20/87)</b>				
150707	45.90	Mowi-det-650	Sub-spindle	
<b>TNL 26 (F25/64)</b>				
151202	58.00	Mowi-det-650	Sub-spindle	
<b>TNL 26 (F37/740)</b>				
151217	75.00	Mowi-det-650	Sub-spindle	

For centering on guide bush side, you have to put the cover head 150709 + 150675 or 150711 + 150637 on material bar.

# Summary by machine types

## Rings for SCHAUBLIN machines

Ring ref.	∅	Sensor	Placed on	Note
<b>Lathe 70 W15</b>				
150870	23.00	Mowi-det-400	Main-spindle	
<b>Lathe 102 W20</b>				
151184	38.00	Mowi-det-400	Main-spindle	
<b>Lathe 102 W25</b>				
150641	48.00	Mowi-det-650	Main-spindle	
<b>Lathe 202 W25</b>				
150641	48.00	Mowi-det-650	Main-spindle	

# Summary by machine types

## Rings for universal application

Ring ref.	Ø	Sensor	Placed on	Note
<b>Variante 1</b>				
150709	0.80	Mowi-det-400	Material	Blank
150709-XXX	Bar Ø	Mowi-det-400	Material	
150675	25.00	Mowi-det-400	Material 150709	
<b>Variante 2</b>				
150711	1.50	Mowi-det-400	Material	Blank
150711-XXX	Bar Ø	Mowi-det-400	Material	
150637	35.00	Mowi-det-400	Material 150711	
<b>Variante 3</b>				
150761	5.00	Mowi-det-650	Material	Blank
150761-XXX	Bar Ø	Mowi-det-650	Material	