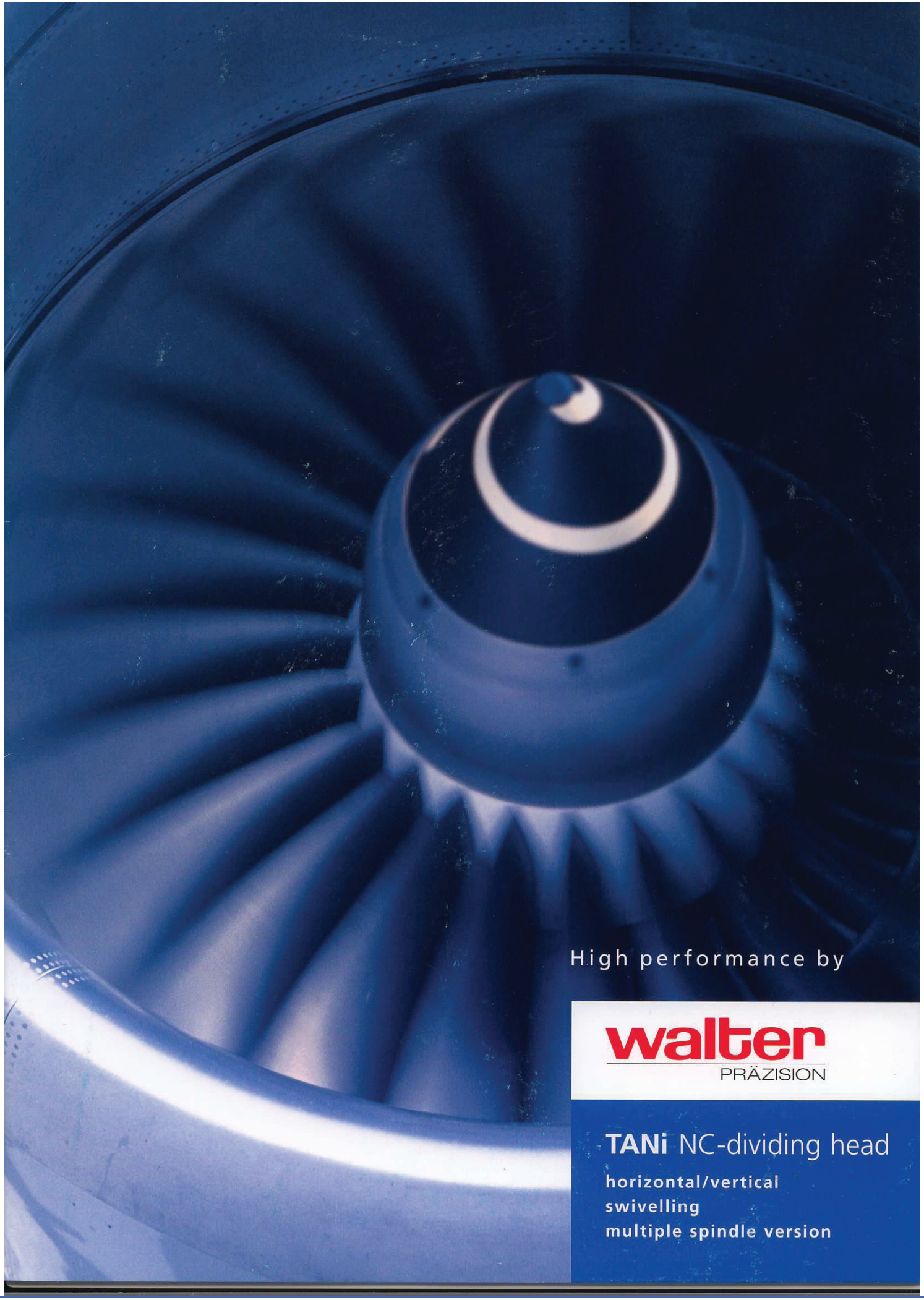
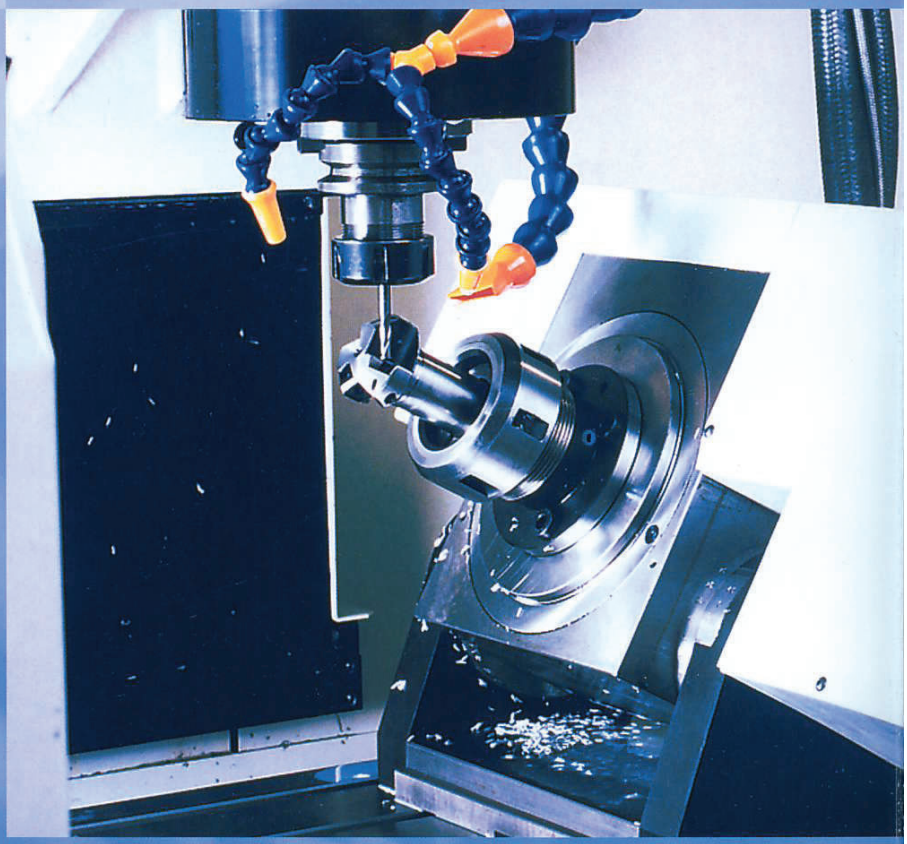


Precision from Walter means precision for hi-tech industries such as aerospace, automotive, automotive suppliers, medical engineering, and machine-tools.



NC dividing heads and NC rotary tables from Walter provide the best possible solutions to the wide range of application problems in manufacturing industry.

HIGH PERFORMANCE

INNOVATION

PRECISION

NC dividing heads and NC rotary tables from Walter are synonymous all over the world for the highest possible quality, economy, and process reliability, and have been for almost 70 years.

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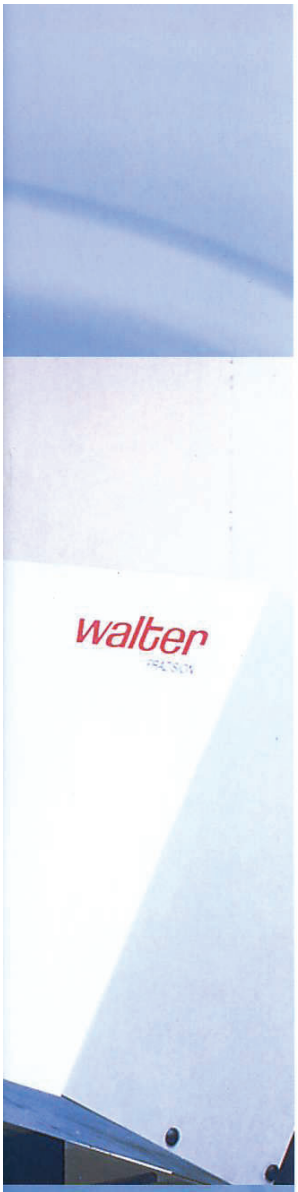


Walter guarantees the highest functionality for production in hi-tech industries

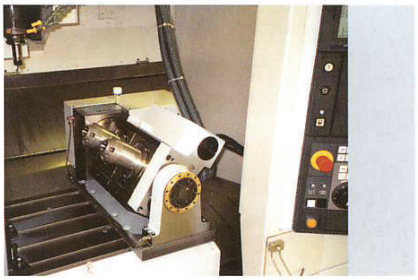
Precision

Precision, in our company, is created by our know-how in development, design, production, and assembly, and gives you the assurance being always a step ahead.

Compact

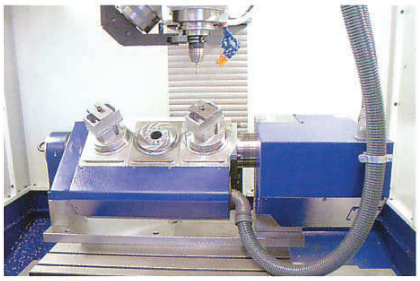
The compact design of our NC dividing heads and the narrow spacing between the five various sizes are designed to achieve one single aim: the highest possible performance in the smallest possible space inside your machine tool.

Stability



Worm drive, bearings, clamp, and housing – all the components of our NC dividing heads and rotary tables are designed to meet the most stringent demands, and thus guarantee an extraordinary long service life.

Performance



Performance, for us, means speed and scalability – short process times and the capability for expanding existing installations using our modular system guarantee the effectiveness and flexibility of your production line.

Innovation

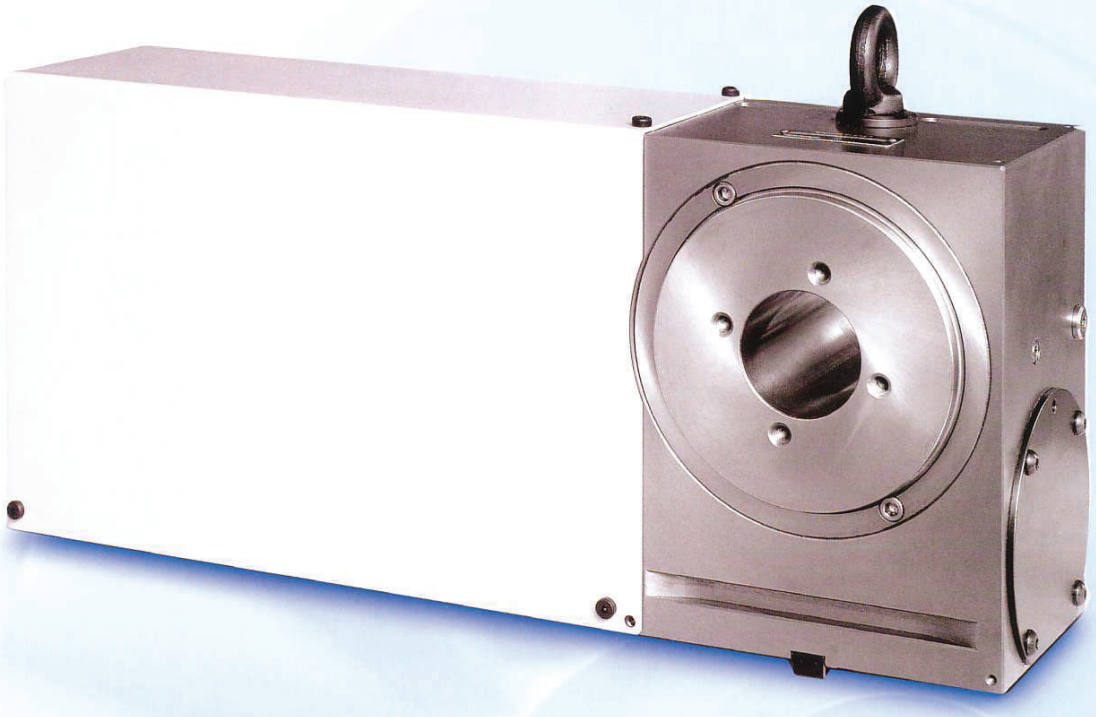
Innovation has a long tradition at „Walter". We have been developing and producing dividing heads and rotary tables since 1936 that always keep our customers ahead of the competition.

Service

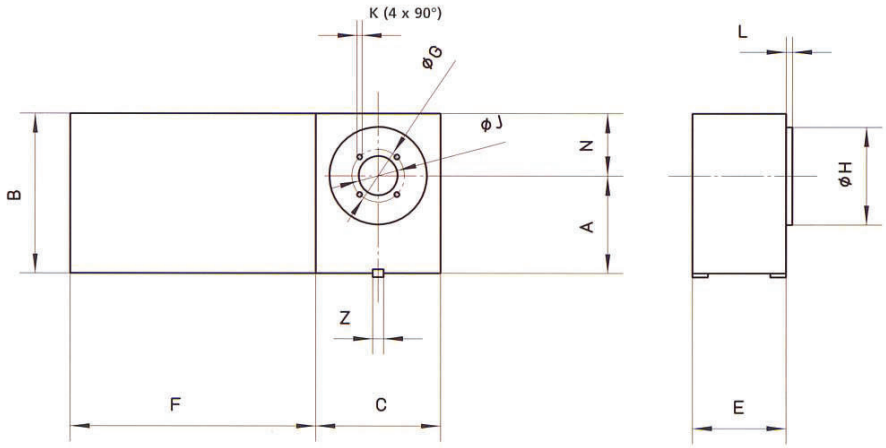
Our products are assembled and started up on your premises. Personnel training, maintenance, repairs, and the supply of spare parts – our service is available to you at all times.

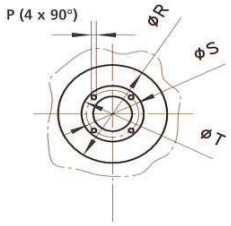
TANi

Single-axis NC dividing heads

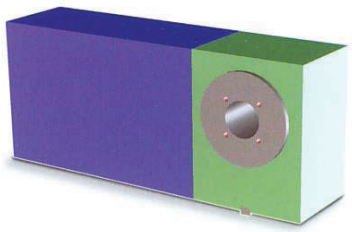


The compact NC dividing head with a horizontal and vertical axis. Its modular design enables it to be used for drilling and machining work, grinding, engraving, laser cutting, and eroding. The variant with a hydraulic clamping system ensures the greatest possible holding power, and the (optional) direct encoder system ensures the most accurate possible positioning during processing.





Rear view



Motor attachment variant, individual spindle designs, etc. – we are just as flexible as your requirements.

Load data

	Transport load			Axial force on entire rotating axis	Moment of tilt on rotating axis with bearing	Restraint torque, pneumatic at 6 bar	Restraint torque, hydraulic, at 100 bar	Feed, torque		Gear ratio in worm drive	Weight (approx.)
	Horizontal	Center horizontal	Vertical								
	kg	kg	kg	N	Nm	Nm	Nm	Nm	Max. rpm	i =	kg
80	20	40	35	3000	250	100	180	32	66	45	7
100	45	90	125	10000	350	130	300	45	53	56	13
125	85	165	260	15000	1200	230	680	110	42	72	26
160	150	300	650	30000	3300	330	1600	250	42	72	45
200	240	600	950	40000	6270		3600	450	33	90	76

Accuracies

	Indexing accuracy (+/- sec.)				Repeatability (+/-sec.)		Run-Out	Rotational accuracy	Parallelism	Orthogonality
	NEG	d-A	d-AA	d-AAA	NEG	d-A,-AA,-AAA				
80	45	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
100	30	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
125	15	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
160	15	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
200	15	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300

Sizes/Dimensions

	A	B	C	E	F	G	H (H7)	J (H7)	K	L	M	N	P	R	S	T	Z
80	80	130	100	80	*	48	60	24	M6	6,5	37,3	50	M5	–	–	35	12
100	100	165	130	105	*	65	80	32	M8	8	49	65	M5	65	43	50	12
125	125	205	160	120	*	67,5	125	50	M8	8	50	80	M8	140	67,5	80	14
160	160	265	200	150	*	85	150	65	M10	8	67,6	105	M8	160	85	100	14
200	200	345	280	175	*	130	200	100	M12	10	74	145	M10	210	125	150	18

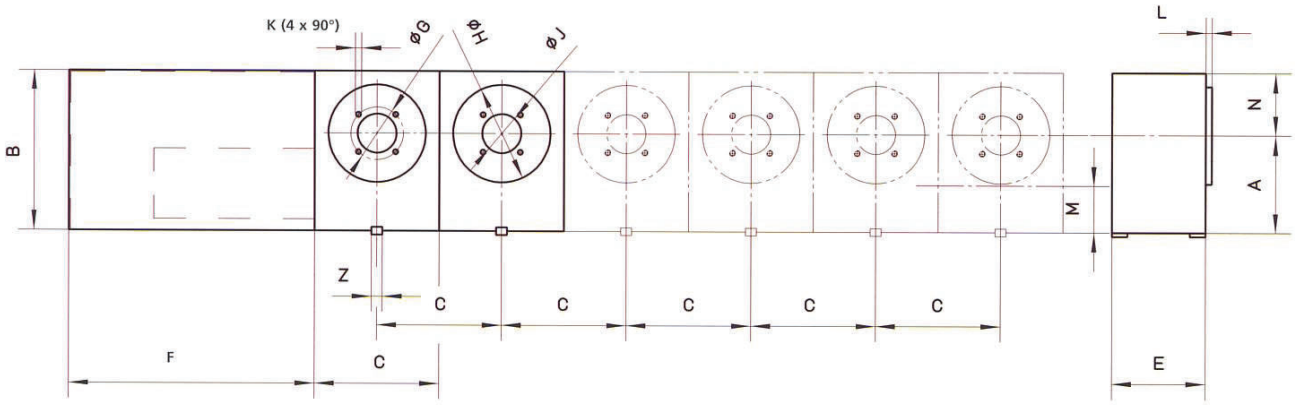
*according to motor variant

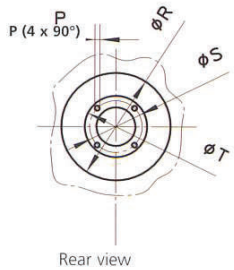
Technical modifications subject to change

TANi2-6

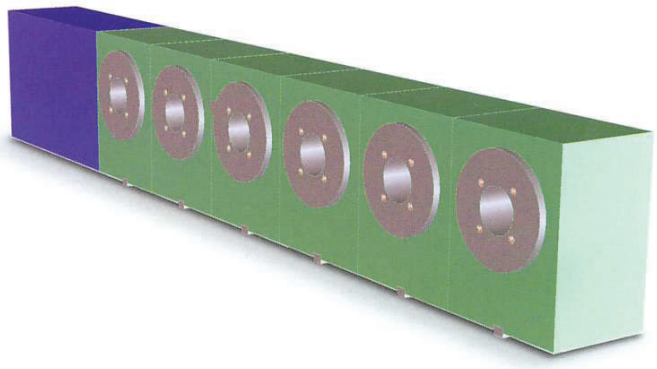
Single-axis NC dividing heads, multiple-spindle version

The multiple-spindle version of the basic TANi dividing head can be expanded up to 6 spindles and is particularly suitable for holding several work-pieces simultaneously in series production. Short positioning times and an adaptation of automatic clamping systems optimise your production times.





Rear view



Motor attachment variant, individual spindle designs, etc. – we are just as flexible as your requirements.

Load data

	Transport load			Axial force on entire rotating axis	Moment of tilt on rotating axis with bearing	Restraint torque, pneumatic, at 6 bar	Restraint torque, hydraulic, at 100 bar	Feed, torque		Gear ratio in worm drive	Weight (approx.)
	Horizontal	Center horizontal	Vertical								
	kg	kg	kg	N	Nm	Nm	Nm	Nm	Max. rpm	i =	kg
80(-2,-3,-4,-5,-6)	20	40	35	3000	250	100	180	32	66	45	x
100(-2,-3,-4,-5,-6)	45	90	125	10000	350	130	300	45	53	56	x
125(-2,-3,-4,-5,-6)	85	165	260	15000	1200	230	680	110	42	72	x
160(-2,-3,-4,-5,-6)	150	300	650	30000	3300	330	1600	250	42	72	x
200(-2,-3,-4,-5,-6)	240	600	950	40000	6270	3000	3600	450	33	90	x

x = according to number of axes

Accuracies

	Indexing accuracy (+/-sec.) NEG	Repeatability (+/-sec.) NEG	Run-Out	Rotational accuracy	Parallelism	Orthogonality
80(-2,-3,-4,-5,-6)	45	3	0,01	0,01	0,015/300	0,015/300
100(-2,-3,-4,-5,-6)	30	3	0,01	0,01	0,015/300	0,015/300
125(-2,-3,-4,-5,-6)	15	3	0,01	0,01	0,015/300	0,015/300
160(-2,-3,-4,-5,-6)	15	3	0,01	0,01	0,015/300	0,015/300
200(-2,-3,-4,-5,-6)	15	3	0,01	0,01	0,015/300	0,015/300

Sizes/Dimensions

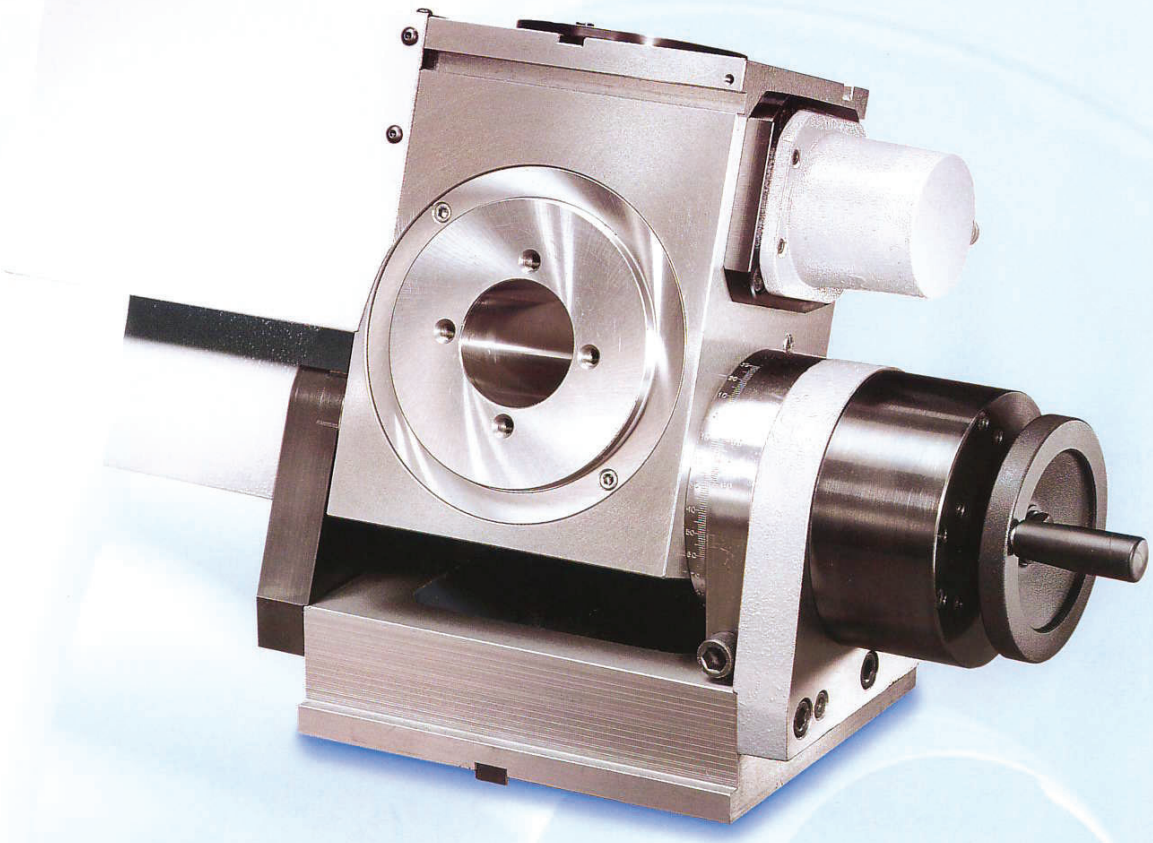
	A	B	C	E	F	G	H (H7)	J (H7)	K	L	M	N	P	R	S	T	Z
80	80	130	100	80	*	48	60	24	M6	6,5	37,3	50	M5	–	–	35	12
100	100	165	130	105	*	65	80	32	M8	8	49	65	M5	65	43	50	12
125	125	205	160	120	*	67,5	125	50	M8	8	50	80	M8	140	67,5	80	14
160	160	265	200	150	*	85	150	65	M10	8	67,6	105	M8	160	85	100	14
200	200	345	280	175	*	130	200	100	M12	10	74	145	M10	210	125	150	18

*according to motor variant

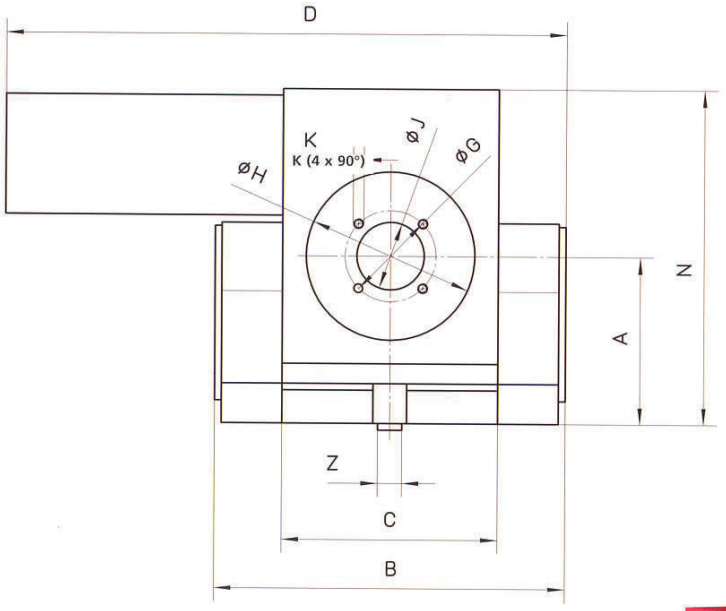
Technical modifications subject to change

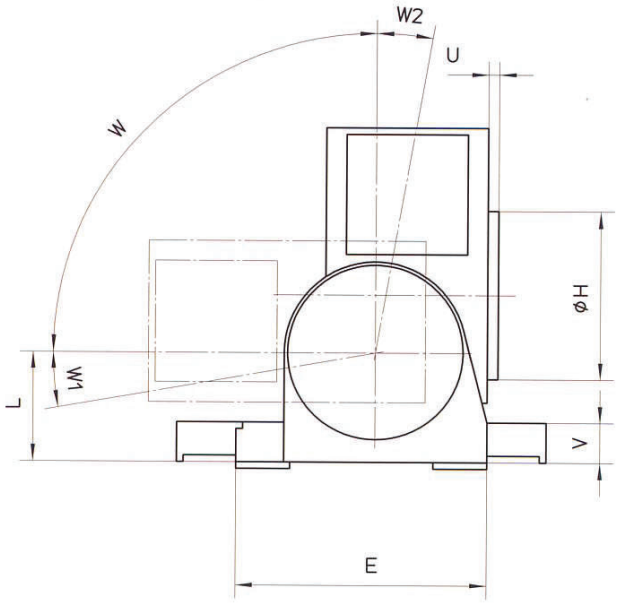
TANiS

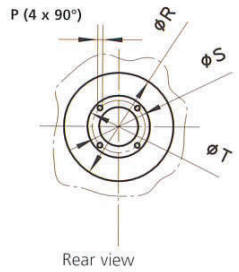
Manually swivelling NC dividing heads



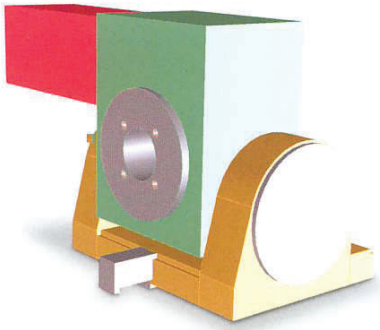
The manually operated additional swivel axis on the basic TANi gives a swivel angle from 0° to 90° and increases your flexibility in the 5-sided processing of short and medium sized series. The low cost of the additional axis makes this version particularly attractive.







Rear view



Motor attachment variant, individual spindle designs, etc. – we are just as flexible as your requirements.

Load data

	Transport load			Axial force on entire rotating axis	Moment of tilt on rotating axis with bearing	Restraint torque, pneumatic at 6 bar	Restraint torque, hydraulic at 100 bar	Feed, torque		Gear ratio in worm drive	Weight (approx.)
	Horizontal	Center horizontal	Vertical								
	kg	kg	kg	N	Nm	Nm	Nm	Mom. Nm	Max. rpm	i =	kg
S-80	20	40	35	3000	250	100	180	32	66	45	12
S-100	45	90	125	10000	350	130	300	45	53	56	21
S-125	85	165	260	15000	1200	230	680	110	42	72	36
S-160	150	300	650	30000	3300	330	1600	250	42	72	56
S-200	240	600	950	40000	6270	3000	3600	450	33	90	90

Accuracies

	Indexing accuracy (+/- sec.)				Repeatability (+/-sec.)		Run-Out	Rotational accuracy	Parallelism	Orthogonality
	NEG	d-A	d-AA	d-AAA	NEG	d-A,-AA,-AAA				
S-80	45	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
S-100	30	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
S-125	15	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
S-160	15	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
S-200	15	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300

Sizes/Dimensions

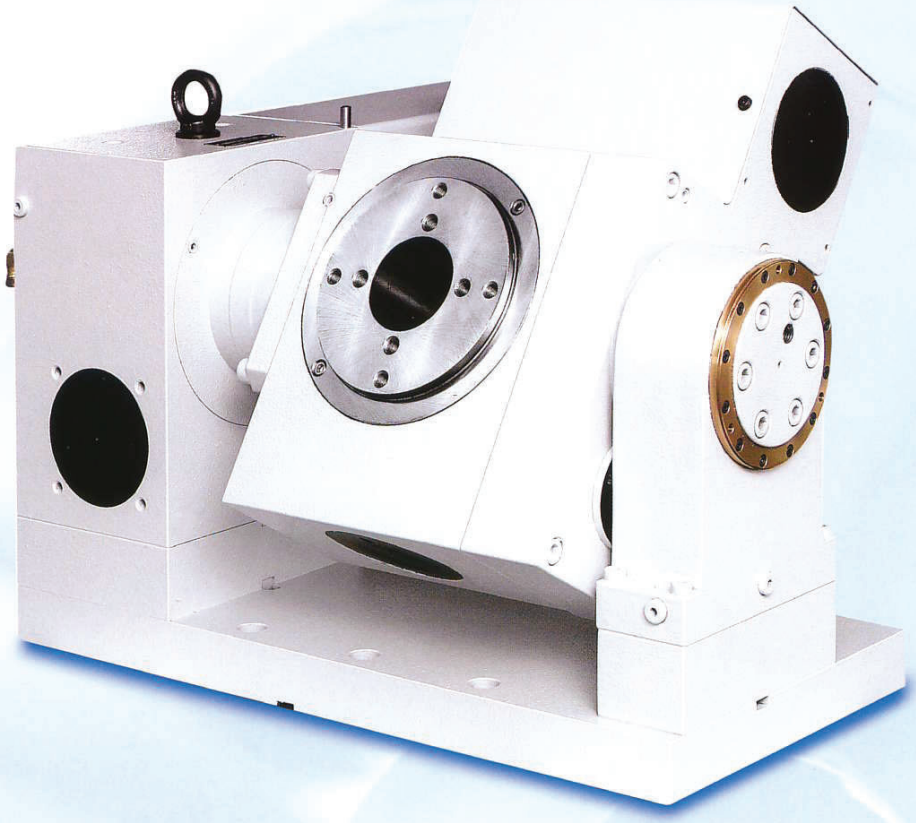
	A	B	C	D	E	G	H (H7)	J (H7)	K	L	N	U	V	W	W1	W2	P	R	S	T	Z
80	100	178	100	*	127	48	60	24	M6	64,5	180	6,5	20	90°	7°	20°	M5	–	–	35	14
100	110	230	130	*	161	65	100	32	M8	70	210	8	20	90°	7°	10°	M5	65	43	50	14
125	125	260	160	*	186	67,5	125	50	M8	82	250	8	20	90°	7°	8°	M8	140	67,5	80	14
160	160	358	200	*	216	85	150	65	M10	105	320	8	30	90°	10°	12°	M8	160	85	100	18
200	200	410	250	*	270	130	200	100	M12	155	400	10	30	90°	10°	7°	M10	210	125	150	18

*according to motor variant

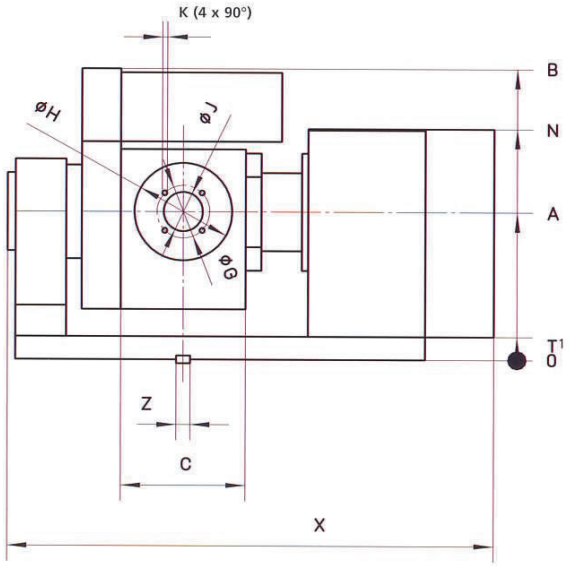
Technical modifications subject to change

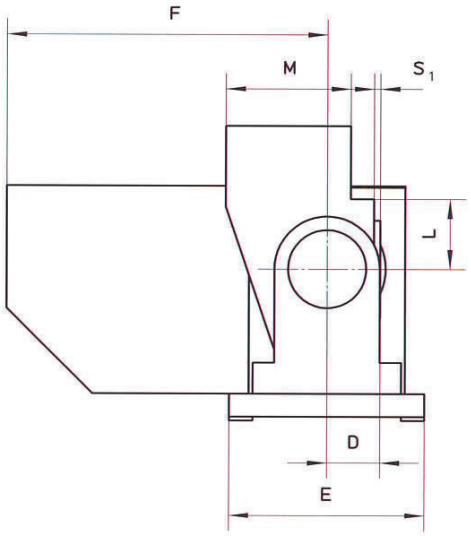
TANi2S

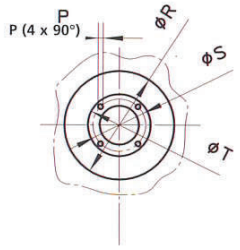
Two-axis NC dividing heads



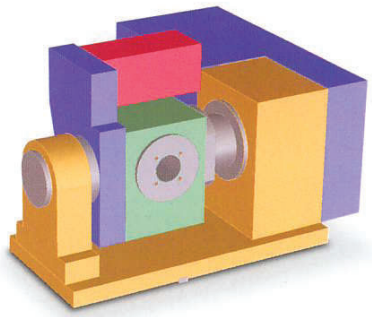
The distinguishing feature of the two-axis TANi 2S NC dividing head with two full-quality NC axes is its extremely high level of performance despite its very compact design. Direct encoder systems in both axes (an optional extra) for high-precision positioning and an automatic clamping system ensure precision and effectiveness in the production of your parts.







Rear view



Motor attachment variant, individual spindle designs, etc. – we are just as flexible as your requirements.

Load data

	Transport load			Axial force on entire rotating axis	Moment of tilt on rotating axis with bearing	Restraint torque, pneumatic at 100 bar	Restraint torque, hydraulic, at 100 bar	Feed, torque		Gear ratio in worm drive	Weight (approx.)
	Horizontal	Center horizontal	Vertical								
	kg	kg	kg	N	Nm	Nm	Nm	Nm	Max. rpm	i =	kg
2S-80/80	15	30	30	3000	250	180	380	32	66	45	130
2S-100/100	35	80	100	10000	350	300	550	45	53	56	160
2S-125/125	65	150	200	15000	1200	680	1000	110	42	72	200
2S-125/160	65	170	250	15000	1200	680	1900	110	42	72	230
2S-160/160	90	200	275	30000	3300	1600	1900	250	42	72	250
2S-200/200	150	250	350	40000	6270	3600	3900	450	33	90	450

Accuracies

	Indexing accuracy rotating axe (+/- sec.)				Indexing accuracy swivelling axe (+/- sec.)				Repeatability (+/- sec.)		Run-Out	Rotational accuracy	Parallelism	Orthogonality
	NEG	d-A	d-AA	d-AAA	NEG	d-A	d-AA	d-AAA	NEG	d-A,AA-AAA				
2S-80/80	45	5	2,5		90	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-100/100	30	5	2,5		60	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-125/125	15	5	2,5		30	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-125/160	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
2S-160/160	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
2S-200/200	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300

Sizes/Dimensions

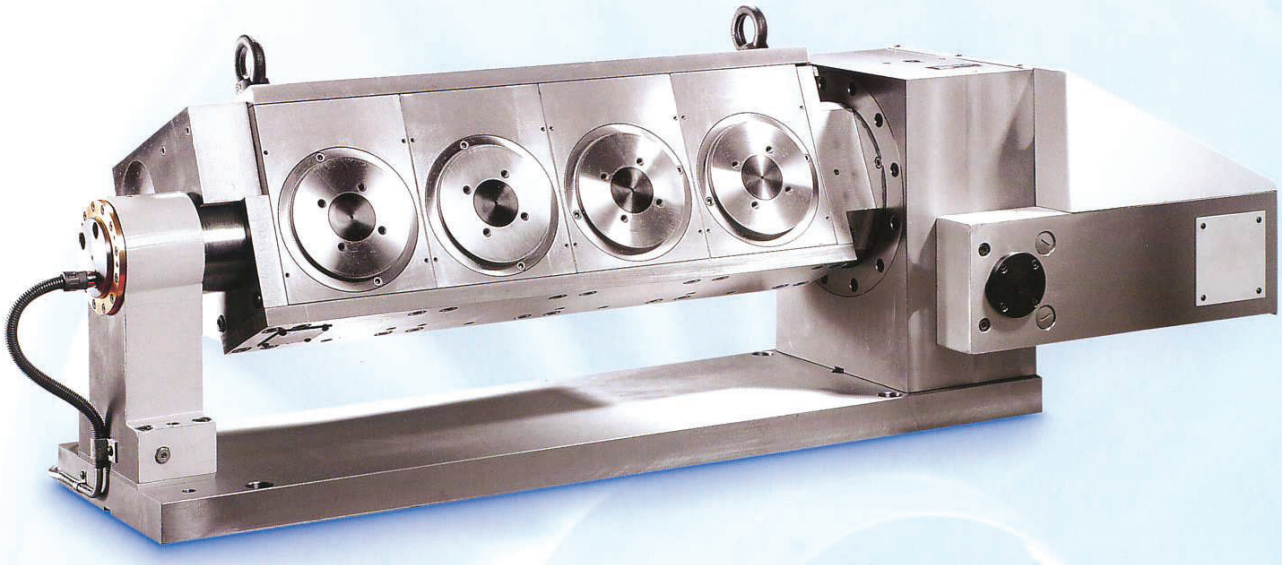
	A	B	C	D	E	F	G	H (H7)	J (H7)	K	L	M	N	S1	T1	P	R	S	T	X	Z
2S-80/80	130	*	100	48	170	*	48	60	24	M6	50	*	180	6,5	30	M5	–	–	35	493	14
2S-100/100	150	*	130	60	195	*	65	80	32	M8	65	*	215	8	30	M5	65	43	50	548	14
2S-125/125	170	*	160	68	210	*	67,5	125	50	M8	80	*	250	8	30	M8	140	67,5	80	593	14
2S-125/160	190	*	160	68	250	*	67,5	125	50	M8	80	*	295	8	30	M8	140	67,5	80	623	18
2S-160/160	220	*	200	68	275	*	85	150	65	M10	105	*	325	8	40	M8	160	85	100	668	18
2S-200/200	300	*	280	73	380	*	130	200	100	M12	145	*	445	10	50	M10	210	125	150	830	18

*according to motor variant

Technical modifications subject to change

TANi2S2-5

Two-axis NC dividing heads, multiple-spindle version



The TANi 2S 2-5 two-axis NC-dividing head with two full-quality NC axes and up to five axes of rotation is the high-end variant of the basic TANi dividing head. 5-sided processing and the multiple clamping of work-pieces make this NC dividing head the best possible solution to your production problems in the serial production of complex work-pieces.

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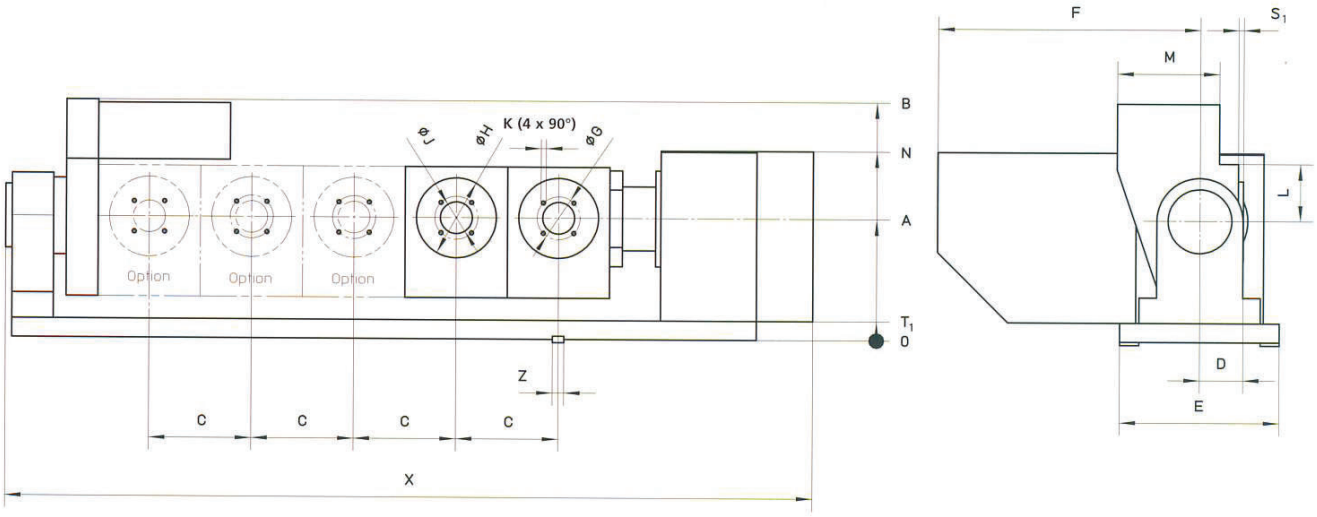
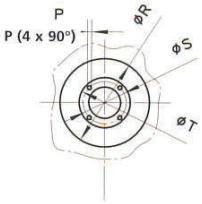
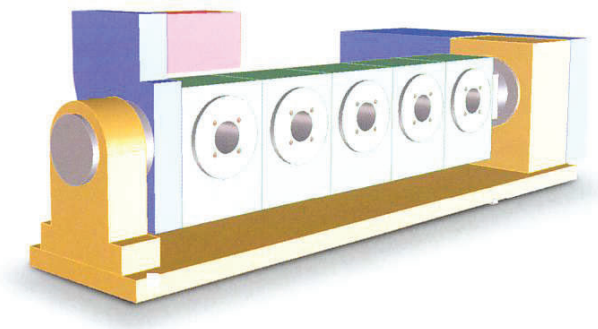




Rear view



Motor attachment variant, individual spindle designs, etc. – we are just as flexible as your requirements.

Load data

	Transport load			Axial force on entire rotating axis	Moment of tilt on rotating axis with bearing	Restraint torque, pneumatic at 100 bar	Restraint torque, hydraulic, at 100 bar	Feed, torque		Gear ratio in worm drive	Weight (approx.)
	Horizontal	Center horizontal	Vertical								
	kg	kg	kg	N	Nm	Nm	Nm	Mom. Nm	Max. rpm	i =	kg
2S-80/80	15	30	30	3000	250	180	380	32	66	45	x
2S-100/100	35	80	100	10000	350	300	550	45	53	56	x
2S-125/125	65	150	200	15000	1200	680	1000	110	42	72	x
2S-125/160	65	170	250	15000	1200	680	1900	110	42	72	x
2S-160/160	90	200	275	30000	3300	1600	1900	250	42	72	x
2S-200/200	150	250	350	40000	6270	3600	3900	450	33	90	x

x = according to number of axes

Accuracies

	Indexing accuracy rotating axe (+/- sec.)				Indexing accuracy swivelling axe (+/- sec.)				Repeatability (+/- sec.)		Run-Out	Rotational accuracy	Parallelism	Orthogonality
	NEG	d-A	d-AA	d-AAA	NEG	d-A	d-AA	d-AAA	NEG	d-A,-AA,-AAA				
2S-80/80	45	5	2,5		90	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-100/100	30	5	2,5		60	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-125/125	15	5	2,5		30	5	2,5		3	1	0,01	0,01	0,015/300	0,015/300
2S-125/160	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
2S-160/160	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300
2S-200/200	15	5	2,5	1,5	30	5	2,5	1,5	3	1	0,01	0,01	0,015/300	0,015/300

Sizes/Dimensions

	A	B	C	D	E	F	G	H (H7)	J (H7)	K	L	M	N	S1	T1	P	R	S	T	Z	2-S	3-S	4-S	5-S
2S-80/80	130	*	100	48	170	*	48	60	24	M6	50	*	180	6,5	30	M5	-	-	35	14	593	693	793	893
2S-100/100	150	*	130	60	195	*	65	80	32	M8	65	*	215	8	30	M5	65	43	50	14	678	808	938	1068
2S-125/125	170	*	160	68	210	*	67,5	125	50	M8	80	*	250	8	30	M8	140	67,5	80	14	753	913	1073	1233
2S-125/160	190	*	160	68	250	*	67,5	125	50	M8	80	*	295	8	30	M8	140	67,5	80	18	783	943	1103	1263
2S-160/160	220	*	200	68	275	*	85	150	65	M10	105	*	325	8	40	M8	160	85	100	18	868	1068	–	–
2S-200/200	300	*	280	73	380	*	130	200	100	M12	145	*	445	10	50	M10	210	125	150	18	1110	–	–	–

*according to motor variant

Technical modifications subject to change

Special accessories – available for all sizes

Hydraulically-pneumatically operated tailstocks

We produce hydraulically-pneumatically operated tailstocks to meet your specific requirements.

CNC control units

If required we supply single and two-axis control units for our NC dividing heads. They are connected via the M-function of your machine tool.

Spring-loaded tail-stocks

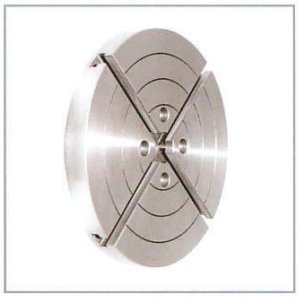
The best possible system for rapid work-piece changes in short-series production.

Collet chucks – manual and automatic

Collet chucks from our own production ensure the highest possible level of accuracy.

Manually operated tailstocks

Precise, stable, and reliable – that describes the classic manually operated tailstocks from Walter.



Face plates

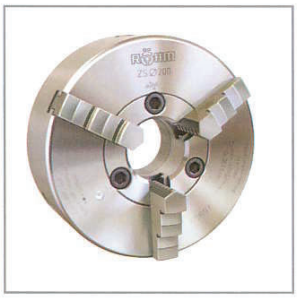
Standard face plates, like special versions, are available for all sizes and versions.

Mounting flange

We design, produce, and adapt special mountings for your attachments here in our works.

Hydraulically or pneumatically operated clamping chucks + power-operated front-end chucks

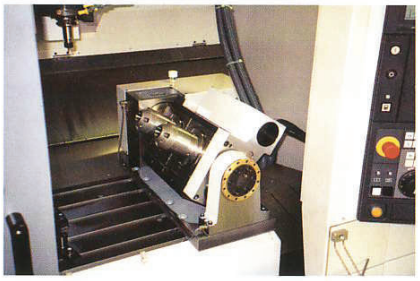
We use top-end products from European manufacturers, which ensures that you are in the lead in the effectiveness of your parts production.



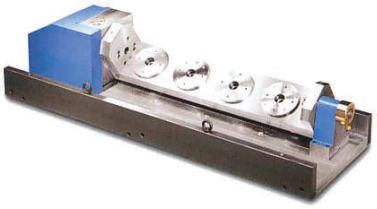
Manual clamping chuck

High-precision three-jaw and four-jaw chucks from German manufacturers for the secure clamping of your work-pieces.

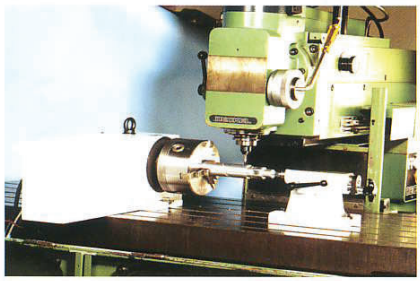
Examples of application



Two-axis NC dividing head with two rotating axes and automatic collet chuck system

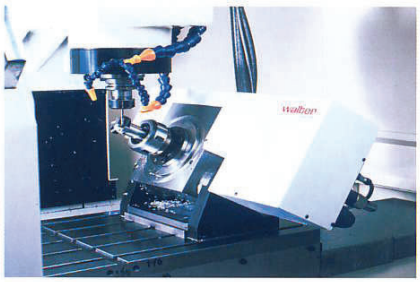


Single-axis NC dividing head with bridge and hydraulically clamp counter-bearing

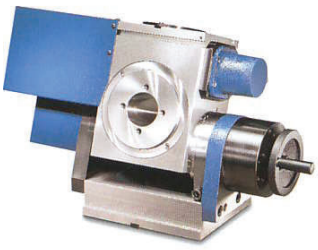


Single-axis NC dividing head with three-jaw chuck and tailstock

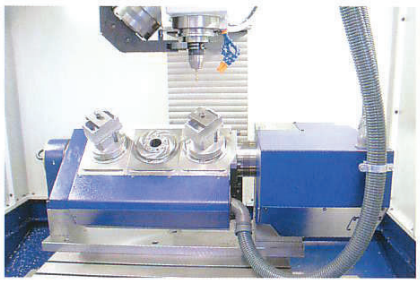
2-axis NC rotary table with torque drive in the rotating and swivelling axes



Manually swivelling NC dividing head with controlled rotating axis and hydraulic clamping



Manually swivelling NC dividing head with controlled rotating axis. Swivelling movement via hand wheel and pneumatic clamping



Two-axis NC dividing head with three rotating axes and automatic powered clamping chuck

Two-axis NC dividing head with five rotating axes and automatic work-piece tapering in compliance with ISO 50

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