6.2 Technical Data Type ARS-S

Figure 2: Rotary module ARS 100-S-O-O-M-R

		ARS 100-S	ARS 200-S	ARS 300-S
Transmission ratio worm gear i		45:1	72:1	90:1
Perm. static central load bearing cap.	(N)	8500	13500	45000
Perm. static tilting (tipping) moment	(Nm)	200	400	1500
Permissible static torque	(Nm)	150	500	800
Positioning accuracy*	(°)	±0.05	±0.020	±0.015
Repeatability*	(°)	±0.010	±0.010	±0.010
Concentricity-axial run-out (wobble)	(mm)	<0.01	<0.01	<0.01
Maximum positioning speed*	(°/s)	180	180	150
Maximum drive torque**	(Nm)	2	3.5	5
Weight***	(kg)	5.8	11	31.8
Weight of base plate BV	(kg)	1.4	3.8	9.5
Weight of base plate BH	(kg)	1	2	5.2

* Dependent on the selected motor (without load)
** Counter-clockwise; in clockwise direction, the values have to be reduced by 50%
*** Without motor and base plate

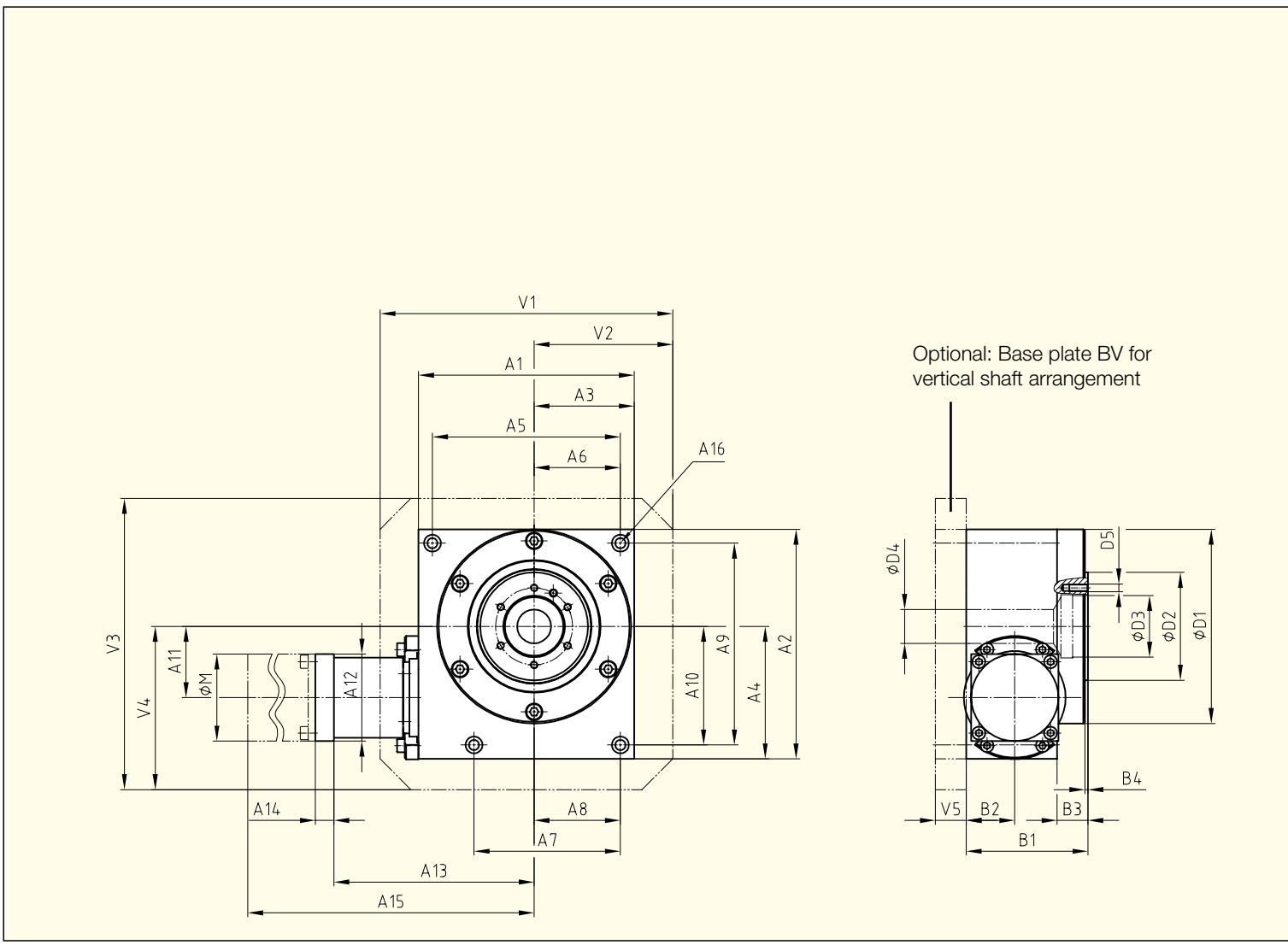
6.3 Technical Data Type ARS-H

Figure 3: Rotary module ARS 100-H-O-O-M-R

		ARS 100-H	ARS 200-H	ARS 300-H
Transmission ratio worm gear i		45:1	72:1	90:1
Perm. static centr. load bearing cap.	(N)	8500	14000	35000
Perm. static tilting (tipping) moment	(Nm)	200	450	1500
Permissible static torque	(Nm)	250	600	1000
Positioning accuracy*	(°)	±0.05	±0.020	±0.015
Repeatability*	(°)	±0.010	±0.010	±0.010
Concentricity-axial run-out (wobble)	(mm)	<0.01	<0.01	<0.01
Maximum positioning speed*	(°/s)	180	180	150
Maximum drive torque	(Nm)	2	3.5	5
Weight**	(kg)	8	14.3	38.4
Weight of base plate BV	(kg)	1.9	3.9	9.7
Weight of base plate BH	(kg)	1.1	2.4	5.7

* Dependent on the selected motor (without load)
** Without motor and base plate

6.4 Dimension Table Type ARS-S

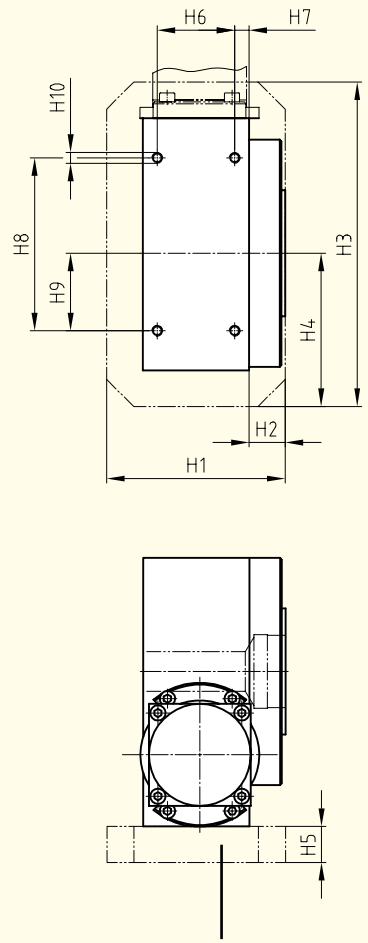


Details of reference switching point and motor connection dimensions on request!

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A 10
ARS 100-S	140	149	65	86	122	56	95	56	131	77
ARS 200-S	200	200	100	112	120	60	120	60	180	102
ARS 300-S	260	299	130	169	220	110	160	80	259	149

	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
ARS 100-S	125	70	40H7	22	TK= 50, 6×M5–12 deep	99	20	180	85	20
ARS 200-S	170	100	60H7	50	TK= 78, 4×M8–10 deep	114	27.5	255	127.5	25
ARS 300-S	255	165	120H7	95	TK= 145, 6×M6–12 deep	176	35	330	165	30

* Dependent on the type of motor
All dimensions in mm. Subject to dimensional and design modifications!

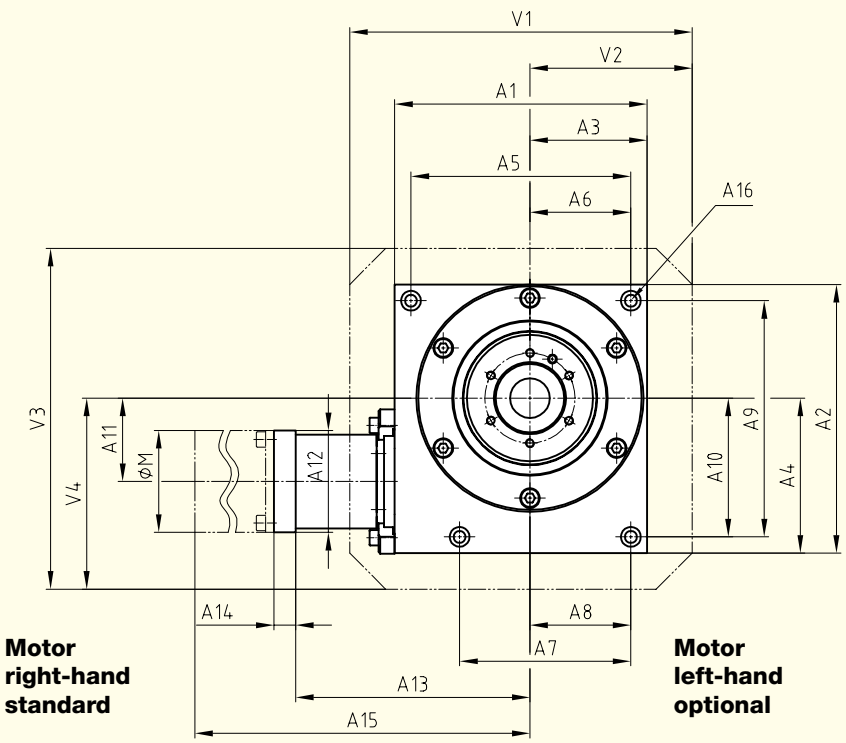


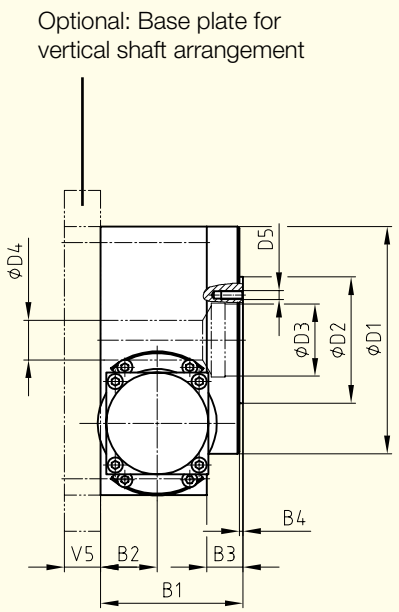
Optional: Base plate BH
for horizontal shaft arrangement

	A11	A12	A13	A14	A15	A16	∅M	B1	B2	B3	B4
	46.3	*	*	*	*	Km6 DIN 74, M8–16 deep	*	79	33	20	2
	66.5	*	*	*	*	Km8 DIN 74, M10–20 deep	*	84	31.5	25	2
	104	*	*	*	*	Km12 DIN 74, M16–32 deep	*	125	56.4	19.4	5.4

	H6	H7	H8	H9	H10	V1	V2	V3	V4	V5
	43	8	96	43	M6–10 deep	180	85	189	106	20
	44	7.5	150	75	M8–16 deep	255	127.5	255	139.5	25
	66	19.6	210	105	M8–18 deep	330	165	369	204	30

6.5 Dimension Table Type ARS-H



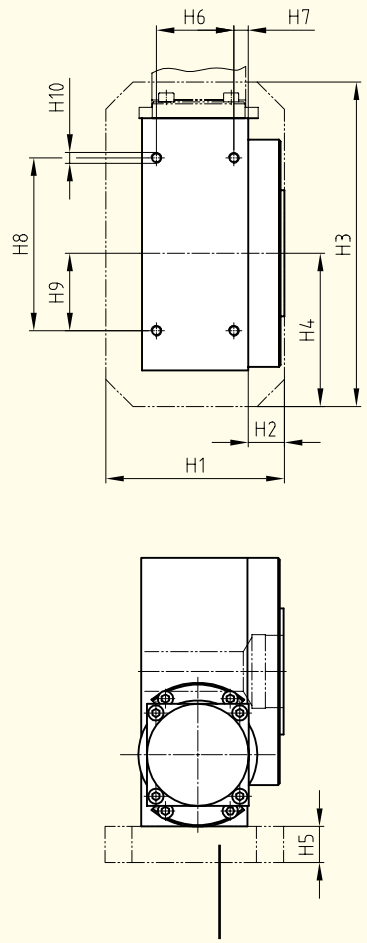


Details of reference switching point and motor connection dimensions available on request!

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A 10
ARS 100-H	150	160	75	90	80	40	80	40	140	80
ARS 200-H	186	225	93	132	120	60	120	60	205	122
ARS 300-H	290	331	145	186	240	120	110	55	270	170

	D1	D2	D3	D4	D5	H1	H2	H3	H4	H5
ARS 100-H	120	70f7	50H7	25.3+0.2	TK= 60, 6×M6–10 deep	100	13	200	75	19
ARS 200-H	160	100f7	60H7	50.4+0.2	TK= 78, 4×M8–12 deep	150	36	250	125	25
ARS 300-H	236	130g6	85H7	85H7	TK= 110, 6×M6–12 deep 6×M8–12 deep	220	52	350	145	30

* Dependent on the type of motor
All dimensions in mm. Subject to dimensional and design modifications!



Optional: Base plate BH
for horizontal shaft arrangement

A11	A12	A13	A14	A15	A16	∅M	B1	B2	B3	B4
51.5	*	*	*	*	Km8 DIN 74, M10–20 deep	*	93	36	18	3
86	*	*	*	*	Km8 DIN 74, M10–20 deep	*	92	37.5	15	5
128	*	*	*	*	Km12 DIN 74, M16–32 deep	*	126	54	10	5

H6	H7	H8	H9	H10	V1	V2	V3	V4	V5
59	8	50	25	M8–16 deep	200	100	200	110	19
44	17	150	75	M8–15 deep	240	120	280	160	25
52	31	190	95	M14–32 deep	350	175	390	215	30