

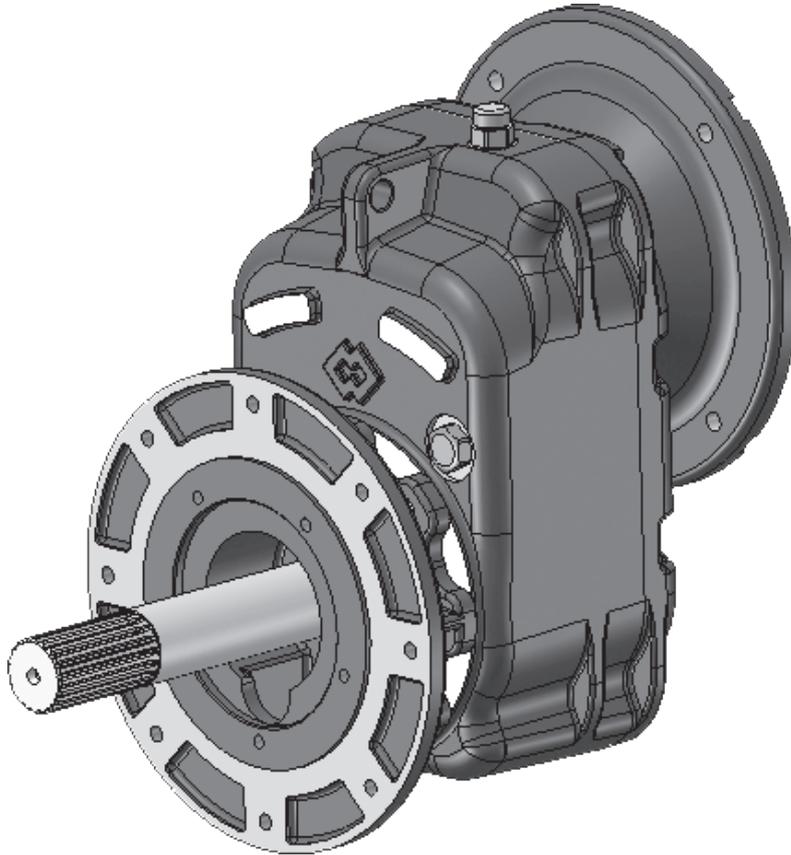


# S4

GEAR REDUCERS

1

## TECHNICAL CATALOGUE



Manual No. CON.095.--.T.EN Issue: A4  
Latest Update: May 2016

ORIGINAL INSTRUCTIONS IN ENGLISH

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**1.0****TECHNICAL FEATURES****S4 series GEAR REDUCERS**

Technical features

**GEARING**

- With parallel axes with 2 and 3 reduction stages.

**SIZES**

- No. 4 sizes for powers input from 0.55 kW to 30kW.
- S41 / S43 / S45 / S47

**TRANSMISSION RATIO**

- Nominal transmission ratios according to Ra 10 UNI 2017
- 1:4 to 1:40 Size S41
- 1:4 to 1:80 Sizes S43 / S45 / S47

**PERFORMANCE**

- Load capacity of gears. calculated at breaking tension and at surface pressure according to ISO 6336/96. DIN 3990/87. AGMA 2001- C95.
- Nominal torque moments that can be transmitted to output shaft up to 2000 Nm. Powers that can be installed at input up to 30 kW.

**GEARS**

- Helical finished or ground involute gears.

**MATERIALS**

- Gears made from steel 20 MnCr 5 UNI EN 10084 - cemented and tempered.
- Casing made from mechanical cast-iron EN-GJL-250 UNI EN 1561.
- Output shafts made of steel C45 UNI EN 10083-2 induction tempered SS 304/316 for B8 output.
- Input shafts and P.A.M. sleeves made of 20 MnCr5 UNI 10084 cemented and tempered.

**BEARINGS**

- Ball bearings.

**PERFORMANCE**

- The reference performance considered for calculating the performance indicated in this catalogue is:  
 $\eta = 0.96$

**PAINTING**

- RAL 5010 - blue.

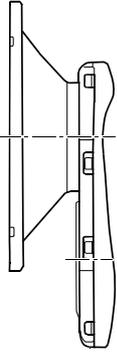
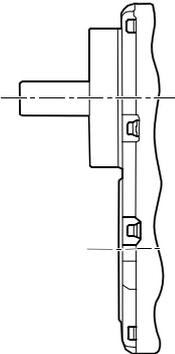
**USE**

- The S4 gear reducers are installed for installation directly on the screw conveyors: in this case an XUH/ XUC type seal is normally mounted on the output shaft. However, different types of inputs and outputs are available for use with joint transmission, with chain transmission and belt transmission.

**TEMPERATURE**

- The S4 series gear reducers are supplied with lubricant for use at environmental temperatures (0°C - 40°C).
- For environmental temperatures exceeding 40°C use oil with viscosity slightly greater than that shown in the Table.
- If the environmental temperature is less than 0°C, use oil with viscosity slightly lower than that shown in the Table (ref. Maintenance Catalogue).
- Synthetic lubricants can be used for environmental temperatures -20°C to +50°C.

**2.0**
**TYPE OF INPUT**

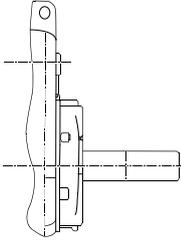
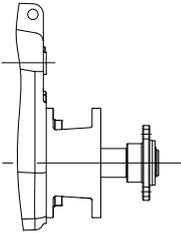
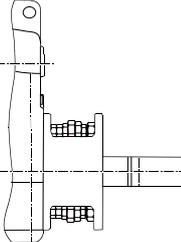
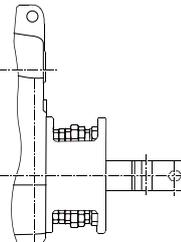
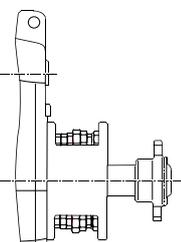
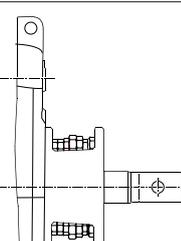
INPUT	TYPE	DESCRIPTION
	<b>PAM</b>	Provision for B5 motor connection
	<b>C4</b>	For belt and pulleys transmission

Type	MOTOR SIZE																
	71		80		90		100		112	132			160		180		200
	TO:	B	TO:	B	S	L	LR	LH	M	S	M	L	M	L	M	L	M
<b>S41</b>	x	x	x	x	x	x	x	x	x	**							
<b>S43</b>			x	x	x	x	x	x	x	x	x	x	**				
<b>S45</b>					x	x	x	x	x	x	x	x	x	x	x	x	
<b>S47</b>							x	x	x	x	x	x	x	x	x	x	*

\* Only in compact form;

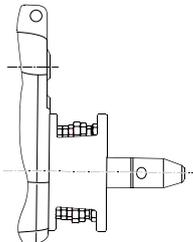
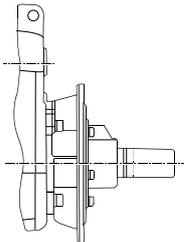
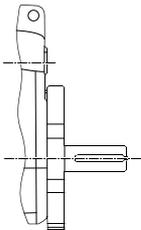
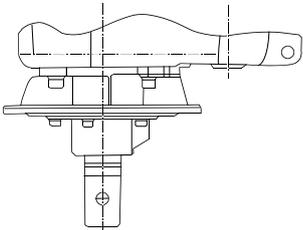
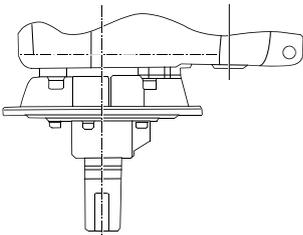
\*\* Only with pulley transmission.

**3.0**  
 TYPE OF OUTPUT

OUTPUT	TYPE	DESCRIPTION
	<b>A3</b>	Output with grooved shaft in accordance with DIN 5482. The sealing is done by a packing ring. It can be mounted on the light version of the trough screw conveyors and is used in transmission with joint on TU screw conveyors. It is only available for sizes <b>S41</b> and <b>S43</b>
	<b>A6</b>	Output with shaft for flanged couplig. STD. Output for direct transmission on COM.030 e COM.040 compact screw conveyors .No seal is provided as the function is entrusted to another component..Available only for size S45.
	<b>B4</b>	Output with grooved shaft in accordance with DIN 5482. The XUC seal is of the adjustable packing gland type and is divided into two parts for rapid replacement of the packing glands. For direct transmission on trough or tubular screw conveyors on which the mechanical part of the trough is mounted.
	<b>B5</b>	Output with chrome-plated shaft for smooth and pinned coupling. Standard output for direct transmission on stainless steel screw conveyors. The XUC seal provided that described for the <b>B4</b> output.
	<b>B6</b>	Output with shaft for flanged coupling. Standard output for direct transmission on heavy-duty trough or tubular screw conveyors. The XUC seal provided that described for the <b>B4</b> output.
	<b>B7</b>	Output with grooved shaft according to DIN 5482 but with transverse hole for pinning. As in the case of <b>B4</b> output but for moist and abrasive micronized materials. Also used for vertical screws fitted with trough mechanical components. The XUC seal is provided that described for the <b>B4</b> output..

- The XUC and XUH seals represent accesories: they shall be ordered separately

**3.0**  
 TYPE OF OUTPUT

OUTPUT	TYPE	DESCRIPTION
	<b>B8</b>	Special output with stainless steel shaft. truncated conical shape and transverse pin for quick coupling. Standard output for direct transmission on EASYCLEAN screws. The seal provided is the already described XUC with Teflon-coated packing gland. It is only available for sizes <b>S41.S43</b> and <b>S45</b> .
	<b>CV</b>	Output with hollow shaft for shaft-mounting of gear reducer. No seal is provided because the function is entrusted to another component.
	<b>ES</b>	Standard outputs for tubular screws. Output shaft grooved according to DIN 5482.
	<b>K4</b>	Classic output with smooth shaft with cavity for key. Without seal. this output is used for transmissions with joint and for chain transmissions.
	<b>VE</b>	Standard outputs for vertical screws. The output shaft is grooved according to DIN 5482 with hole for pinnin. Assembly in vertical position with output shaft downwards resistant to traction forces.
	<b>VE_G</b>	Non-standard output for <b>VE</b> screws. The output shaft has an axial opening for fitting the coupling with joint in traction. Available only for sizes <b>S43 - S45 - S47</b> .

- The XUC and XUH seals represent accesories: they shall be ordered separately

**3.0**
**TYPE OF OUTPUT**
POSSIBLE CONFIGURATIONS

	S41	S43	S45	S47
A3	A31	A33	\	\
A6	\	\	A65	\
B4	B41	B43	B45	B47
B5	B51	B53	B55	B57
B6	B61	B63	B65	B67
B7	B71	B73	B75	B77
B8	B81	B83	B85	\
CV	CV1	CV3	CV5	CV7
ES0	ES0	\	\	\
ES1	ES1	ES1	\	\
ES2	ES2	ES2	\	\
ES3	\	ES3	ES3	\
ES4	\	ES4	ES4	ES4
ES5	\	ES5	ES5	ES5
K4	K41	K43	K45	K47
VE0	VE0	\	\	\
VE1	VE1	VE1	\	\
VE2	VE2	VE2	\	\
VE3	\	VE3	VE3	\
VE4	\	VE4	VE4	VE4
VE5	\	VE5	VE5	VE5
VG3	\	VG3	VG3	\
VG4	\	VG4	VG4	VG4
VG5	\	VG5	VG5	VG5

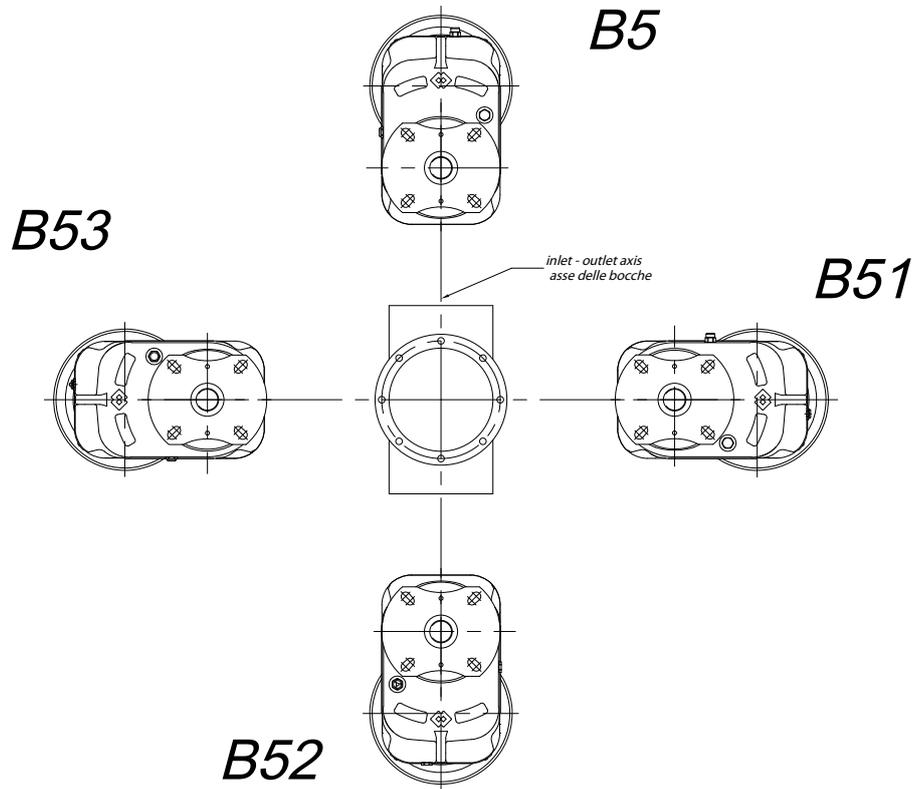
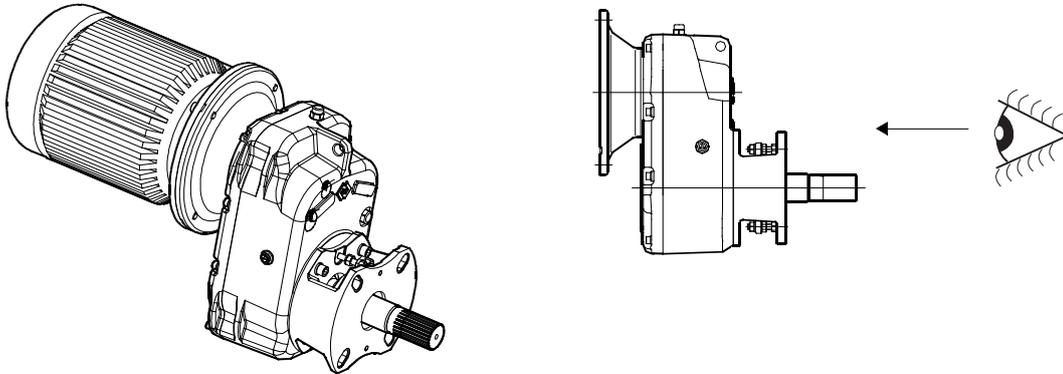
\ Not envisaged

OUTPUT SHAFTS DIAMETERS

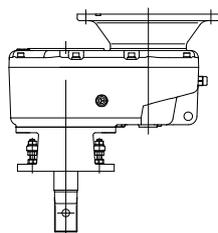
	S41		S43	S45	S47
A3	28	40	40	\	\
A6	\	\	\	48	\
B4	28	40	40	48	60
B5	28	40	40	48	60
B6	28	40	40	48	60
B7	28	40	40	48	60
B8	28	40	40	48	\
CV	25		35	45	55
ES0	28	\	\	\	\
ES1	\	40	40	\	\
ES2	\	40	40	\	\
ES3	\	\	40	48	\
ES4	\	\	40	48	60
ES5	\	\	40	48	60
K	25		35	45	55
VE0	28	\	\	\	\
VE1	\	40	40	\	\
VE2	\	40	40	\	\
VE3	\	\	40	48	\
VE4	\	\	40	48	60
VE5	\	\	40	48	60
VG3	\	\	40	48	\
VG4	\	\	40	48	60
VG5	\	\	40	48	60

 \ Not envisaged  
 Not in production

**4.0**  
**ASSEMBLY POSITION**

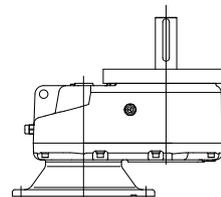


**V1**



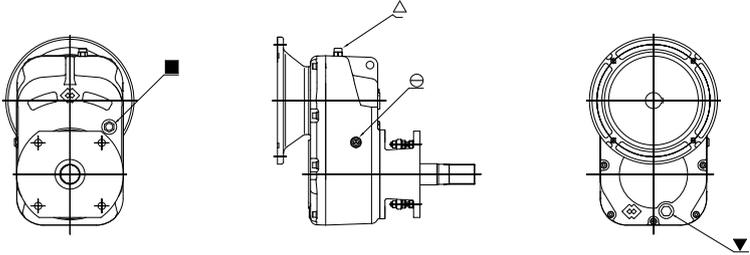
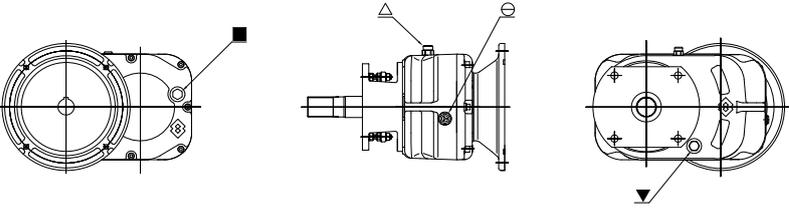
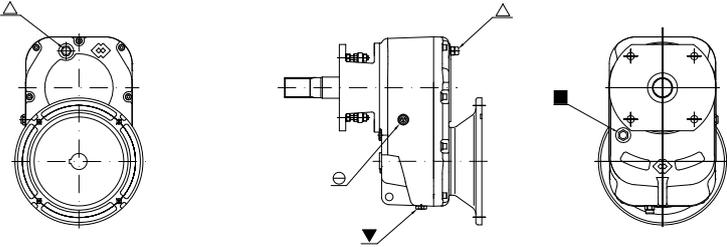
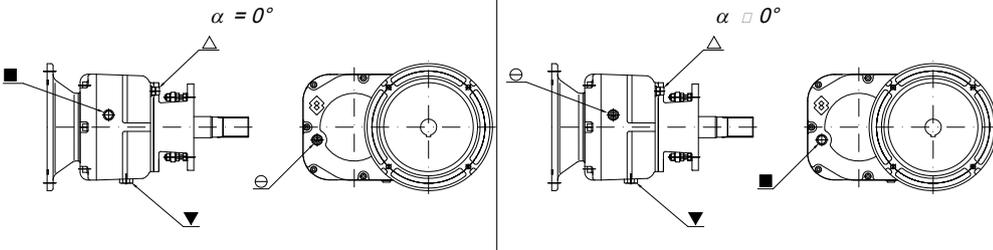
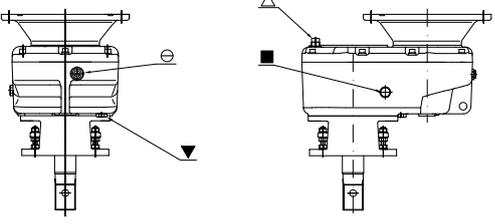
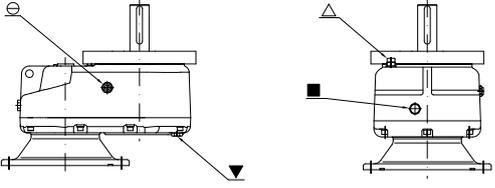
Inadvisable position

**V3**



5.0

OIL PLUGS POSITION

<p>B5</p>		
<p>B51</p>		
<p>B52</p>		
<p>B53</p>		
<p>V1</p>		
<p>V3</p>	<p>Inadvisable position</p> 	
<p> <math>\triangle</math> BREATHER / SFIATO  <math>\ominus</math> LEVEL / LIVELLO  <math>\blacktriangledown</math> OUTLET / SCARICO  <math>\blacksquare</math> PLUG / TAPPO         </p>		

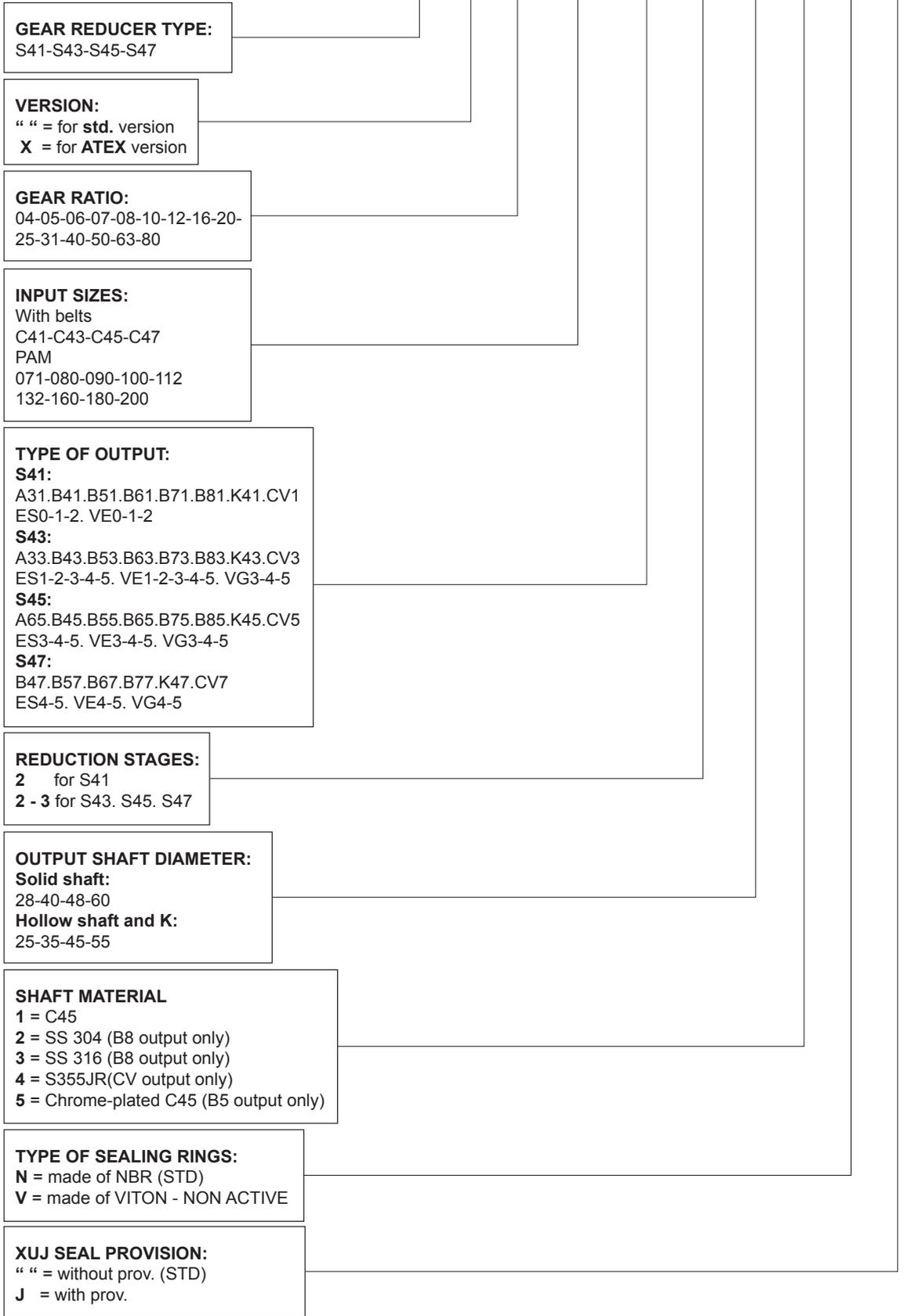
**6.0**
**QUANTITY OF OIL**

Size	Output with Shaft	Assembly position	Qty. of OIL [ l ]						
			INCLINATION $\alpha$ [°]						
			Tail				Head		
			0°	15°	30°	45°	-15°	-30°	-45°
S41	Solid and hollow	B5	1.15	1.15	1.15	1.15	1.15	1.15	1.15
		B51	1.15	1.15	1.15	1.15	1.15	1.15	1.15
		B52	1.26	1.26	1.26	1.26	1.26	1.26	1.26
		B53	1.00	1.50	1.50	1.50	1.50	1.50	1.50
		V1	1.50	1.50	1.50	1.50	1.50	1.50	1.50
		V3	1.50	1.50	1.50	1.50	1.50	1.50	1.50
S43	Solid and hollow	B5	1.75	1.75	1.75	1.75	1.75	1.75	1.75
		B51	1.65	1.65	1.65	1.65	1.65	1.65	1.65
		B52	2.10	2.10	2.10	2.10	2.10	2.10	2.10
		B53	1.55	2.20	2.20	2.20	2.20	2.20	2.20
		V1	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		V3	2.20	2.20	2.20	2.20	2.20	2.20	2.20
S45	Solid and hollow	B5	3.75	3.75	3.75	3.75	3.75	3.75	3.75
		B51	3.00	3.00	3.00	3.00	3.00	3.00	3.00
		B52	4.10	4.10	4.10	4.10	4.10	4.10	4.10
		B53	3.00	4.50	4.50	4.50	4.50	4.50	4.50
		V1	4.30	4.30	4.30	4.30	4.30	4.30	4.30
		V3	4.30	4.30	4.30	4.30	4.30	4.30	4.30
S47	Solid and hollow	B5	8.70	9.00	9.30	9.90	8.10	7.70	7.20
		B51	6.50	6.20	5.80	4.90	7.10	7.20	7.40
		B52	8.00	8.80	9.30	9.70	7.80	7.60	7.30
		B53	6.50	10.10	9.90	9.50	10.70	11.10	11.70
		V1	9.95	9.95	9.95	9.95	9.95	9.95	9.95
		V3	9.95	9.95	9.95	9.95	9.95	9.95	9.95

7.0

MODULAR CODE KEY

S43 X 05 112 A31 2 28 1 N J



## 8.0

## SELECTION

- The **S4**\_ series gear reducers are designed and constructed for installation directly on the screw conveyors.

## SELECTION PROCEDURE

- The selection of the gear reducer is based on a selection power **Ps** and is done by using the Table shown below.
- There may be 2 cases:
  - 1) The installed power **Pi** is "just" higher than the absorbed power **Pa**  
(for example.  $P_i = 5.5 \text{ kW}$  and  $P_a = 4 \text{ kW}$ ).  
The gear reducer is selected taking  $P_s = P_a$
  - 2) The installed power **Pi** is "much higher" than the absorbed power **Pa**  
(for example.  $P_i = 2.2 \text{ kW}$  and  $P_a = 0.9 \text{ kW}$ ).  
The gear reducer is selected taking as **Ps** the **Pi** reduced by one size.
- In the following Tables. the service factor of the gear reducer in relation to the selected power **Ps** is at least equal to **1**.
- Table 1 applies to **S4**\_ gear reducers with steel output shaft. Table 2 refers to the same gear reducers but with SS 304 and 316 stainless steel output shaft
- For special requirements please contact our Technical-Commercial Dept.

Tab 1

Size GR.	KW																	In
	71		80		90		100		112	132		160		180		200		
RPM	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	30	
<b>322</b>	S41	S41	S41	S41	S41	S41	S41	S41	S41	S41**	S43	S43	S43**	S45	S45	S45	S47	4
<b>290</b>	S41	S41	S41	S41	S41	S41	S41	S41	S41	S41**	S43	S43	S43**	S45	S45	S45	S47	5
<b>230</b>	S41	S41	S41	S41	S41	S41	S41	S41	S41	S41**	S43	S43	S43**	S45	S45	S45	S47	6
<b>204</b>	S41	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	S47	S47	7
<b>181</b>	S41	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	S47	S47	8
<b>145</b>	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	S47	S47	S47	10
<b>116</b>	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	S45	S47	S47	S47	-	12.5
<b>91</b>	S41	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	S45	S47	S47	S47	-	-	16
<b>72</b>	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S47	S47	S47	-	-	-	20
<b>58</b>	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	S47	S47	S47	-	-	-	-	25
<b>46</b>	S41	S41	S41	S41	S43	S43	S45	S45	S45	S47	S47	-	-	-	-	-	-	31.5
<b>36</b>	S41	S41	S41	S41	S43	S43	S45	S45	S47	S47	-	-	-	-	-	-	-	40
<b>46</b>	-	-	S43	S43	S43	S43	S43	S45	S45	S47	S47	S47	-	-	-	-	-	31.5 3s
<b>36</b>	-	-	S43	S43	S43	S43	S43	S45	S45	S47	S47	-	-	-	-	-	-	40 3s
<b>29</b>	-	-	S43	S43	S43	S43	S45	S45	S47	S47	-	-	-	-	-	-	-	50
<b>23</b>	-	-	S43	S43	S43	S45	S45	S47	S47	-	-	-	-	-	-	-	-	63
<b>18</b>	-	-	S43	S43	S45	S45	S47	S47	-	-	-	-	-	-	-	-	-	80

NOTE only 4 poles electric motor -Motori a 4 poli

\*\* only with pulley transmission-solo con trasmissione a pullegge

 not in production

**8.0**
**SELECTION**

**S4\_ TYPE GEAR REDUCTION UNIT WITH OUTPUT SHAFT IN ST. ST ( only B 8 output )**  
**TESTATA MOTRICE S4\_ CON ALBERO DI USCITA IN ACCIAIO INOX ( solo uscita B 8 )**

Tab 2

Size GR.	KW																	In
	71		80		90		100		112	132			160		180		200	
RPM	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	30	
<b>322</b>	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	-	-	-	4
<b>290</b>	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	-	-	-	5
<b>230</b>	S41	S41	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	S45	-	-	-	-	6
<b>204</b>	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	S45	-	-	-	-	7
<b>181</b>	S41	S41	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	-	-	-	-	-	8
<b>145</b>	S41	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	10
<b>116</b>	S41	S41	S41	S41	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	-	12.5
<b>91</b>	S41	S41	S41	S41	S41	S43	S43	S43	S45	S45	-	-	-	-	-	-	-	16
<b>72</b>	S41	S41	S41	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	-	-	20
<b>58</b>	S41	S41	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	25
<b>46</b>	S41	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	-	31.5
<b>36</b>	S41	S41	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	-	-	40
<b>46</b>	-	-	S43	S43	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	31.5 3s
<b>36</b>	-	-	S43	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	-	40 3s
<b>29</b>	-	-	S43	S43	S45	S45	-	-	-	-	-	-	-	-	-	-	-	50
<b>23</b>	-	-	S43	-	S45	S45	-	-	-	-	-	-	-	-	-	-	-	63
<b>18</b>	-	-	S43	-	S45	-	-	-	-	-	-	-	-	-	-	-	-	80

**N.B.** only 4 poles electric motor - Motori a 4 poli

not in production

**8.0**
**SELECTION**
**S4\_ TYPE GEAR REDUCTIONS UNIT ( 2 REDUCTIONS )  
TESTATA MOTRICE S4\_ ( 2 STADI )**

Tab 3

$i_n$	$n_1$	$n_2$	S41		S43		S45		S47	
			$T_n$	$P_n$	$T_n$	$P_n$	$T_n$	$P_n$	$T_n$	$P_n$
4.5	2.900	644	145	10.4	320	22.1	630	42.5	1.110	79.8
	1.450	322	190	6.8	420	14.5	820	27.6	1.400	50.3
	750	167	210	3.9	450	8.1	880	15.3	1.510	28.1
5	2.900	580	150	9.4	340	21.3	645	41.3	1.200	73.6
	1.450	290	200	6.3	440	13.8	840	26.9	1.510	46.3
	750	150	220	3.6	470	7.6	900	14.9	1.650	26.2
6.3	2.900	460	165	8.3	350	17.9	715	35.2	1.300	64.4
	1.450	230	220	5.5	460	11.8	930	22.9	1.640	40.6
	750	119	240	3.1	490	6.5	1.000	12.7	1.750	22.4
7.1	2.900	408	175	7.8	360	15.8	730	32.2	1.350	59.9
	1.450	204	230	5.1	470	10.3	950	21.0	1.700	37.7
	750	106	250	2.9	500	5.7	1.020	11.6	1.850	21.2
8	2.900	363	180	7.1	370	14.6	740	29.2	1.410	55.8
	1.450	181	240	4.7	485	9.5	960	19.0	1.780	35.2
	750	94	260	2.7	520	5.3	1.040	10.6	1.930	19.8
10	2.900	290	185	5.9	375	11.8	765	24.0	1.500	46.8
	1.450	145	245	3.9	490	7.7	995	15.6	1.930	30.1
	750	75	270	2.2	530	4.3	1.080	8.7	2.100	16.9
12.5	2.900	232	190	4.8	390	9.6	775	20.1	1.550	39.8
	1.450	116	250	3.2	505	6.2	1.010	13.1	2.020	25.9
	750	60	275	1.8	550	3.5	1.100	7.4	2.200	14.6
16	2.900	181	190	3.7	390	7.8	775	15.2	1.550	29.7
	1.450	91	250	2.5	505	5.1	1.010	9.9	2.020	19.4
	750	47	275	1.4	550	2.9	1.100	5.6	2.200	10.9
20	2900	145	200	3.1	410	6.5	810	12.5	1.620	26.3
	1450	73	260	2.0	530	4.2	1.050	8.1	2.100	17.0
	750	38	285	1.1	580	2.4	1.150	4.6	2.300	9.7
25	2.900	116	200	2.5	410	5.0	810	9.5	1.620	19.7
	1.450	58	260	1.6	530	3.2	1.050	6.1	2.100	12.8
	750	30	285	0.93	580	1.8	1.150	3.5	2.300	7.2
31.5	2.900	92	160	1.5	320	3.2	670	7.1	1.310	13.4
	1.450	46	210	1.0	420	2.1	870	4.6	1.710	8.8
	750	24	230	0.57	460	1.2	950	2.6	1.860	4.9
40	2.900	73	165	1.3	330	2.7	680	5.3	1.350	10.2
	1.450	36	215	0.83	430	1.8	880	3.5	1.730	6.5
	750	19	235	0.47	470	0.99	960	2.0	1.890	3.7

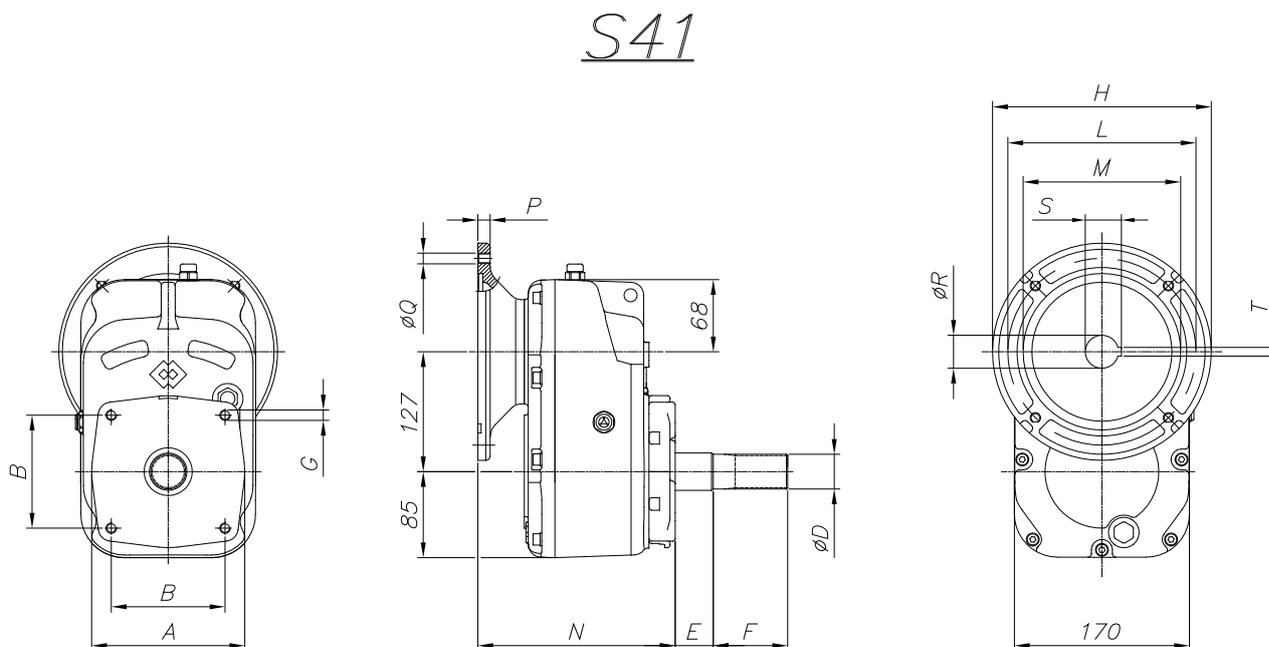
$i_n$	rapporto nominale di trasmissione		nominal ratio	
$n_1$	numero di giri al minuto in entrata		input revolution per minute	Rpm
$n_2$	numero di giri al minuto in uscita		output revolution per minute	Rpm
$T_n$	momento torcente nominale in uscita		output nominal torque	[Nm]
$P_n$	potenza nominale in entrata		input nominal power	[kW]

**8.0**
**SELECTION**
**S4\_ TYPE GEAR REDUCTIONS UNIT ( 3 REDUCTIONS )  
 TESTATA MOTRICE S4\_ ( 3 STADI )**

Tab 4

$i_n$	$n_1$	$n_2$	S41		S43		S45		S47	
			$T_n$	$P_n$	$T_n$	$P_n$	$T_n$	$P_n$	$T_n$	$P_n$
31.5	2.900	92	/	/	410	4.1	810	8.1	1.620	16.8
	1.450	46	/	/	530	2.6	1050	5.2	2.100	10.9
	750	24	/	/	580	1.5	1150	3.0	2.300	6.2
40	2.900	73	/	/	410	3.3	810	6.1	1.620	12.6
	1.450	36	/	/	530	2.2	1050	4.0	2.100	8.1
	750	19	/	/	580	1.2	1150	2.2	2.300	4.6
50	2.900	58	/	/	410	2.7	810	4.8	1.620	10.6
	1.450	29	/	/	530	1.7	1050	3.1	2.100	6.9
	750	15	/	/	580	0.97	1150	1.8	2.300	3.9
63	2.900	46	/	/	335	1.6	810	4.4	1.370	7.3
	1.450	23	/	/	435	1.1	1050	2.8	1.740	4.7
	750	12	/	/	475	0.60	1150	1.6	1.900	2.6
80	2.900	36	/	/	340	1.4	690	2.8	1.400	5.8
	1.450	18	/	/	440	0.90	890	1.8	1.760	3.7
	750	9.4	/	/	480	0.51	970	1.0	1.920	2.1

$i_n$	rapporto nominale di trasmissione		nominal ratio		
$n_1$	numero di giri al minuto in entrata		input revolution per minute		Rpm
$n_2$	numero di giri al minuto in uscita		output revolution per minute		Rpm
$T_n$	momento torcente nominale in uscita		output nominal torque		[Nm]
$P_n$	potenza nominale in entrata		input nominal power		[kW]

**9.0**
**S41 GEAR REDUCER**
**9.1**
**S41 GEAR REDUCER - A3 OUTPUT**


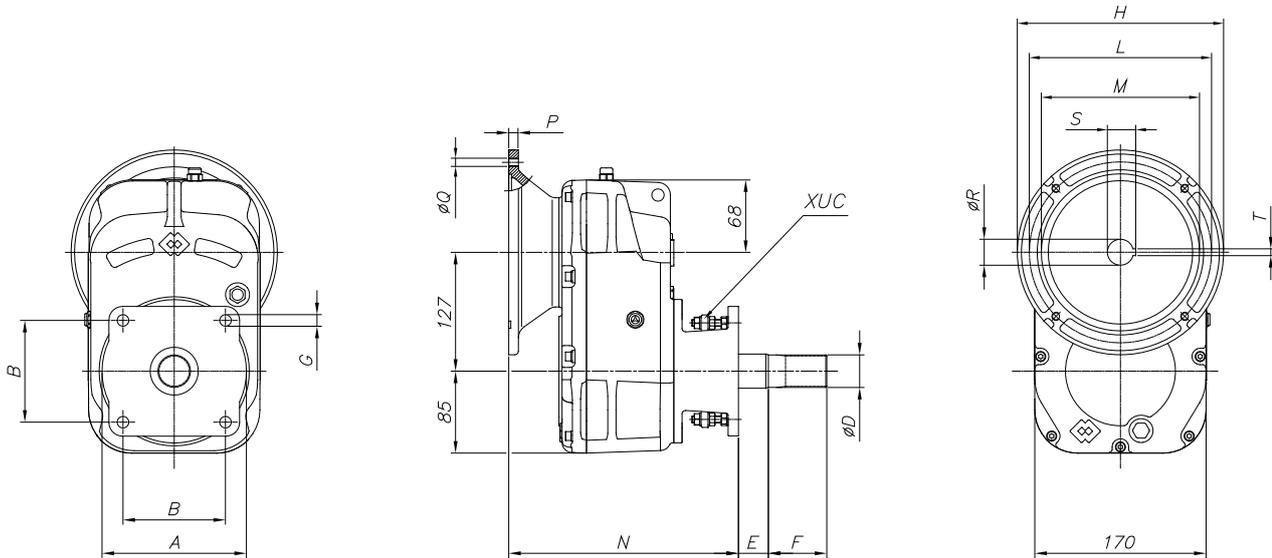
Gear reducer	Output		Ø Screw	A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	<b>A31</b>	<b>28</b>	100 - 120	155	70	/	28 x 25	24	65	4	M 10
	<b>A31</b>	<b>40</b>	150 - 200 - 250	155	70	/	40 x 36	43.5	85	4	M 10

  = Not in production

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
												A31 (28)	A31 (40)
<b>71</b>	160	130	110	243	10	M 8	14	16	5	/	/	23	24
<b>80</b>	200	165	130	259	12	M 10	19	21.5	6	/	/	24	26
<b>90</b>	200	165	130	259	12	M 10	24	27	8	/	/	25	26
<b>100 - 112</b>	250	215	180	269	14	M 12	28	31	8	/	/	27	28

**9.2**
**S41 GEAR REDUCER - B4 OUTPUT**

*S41*

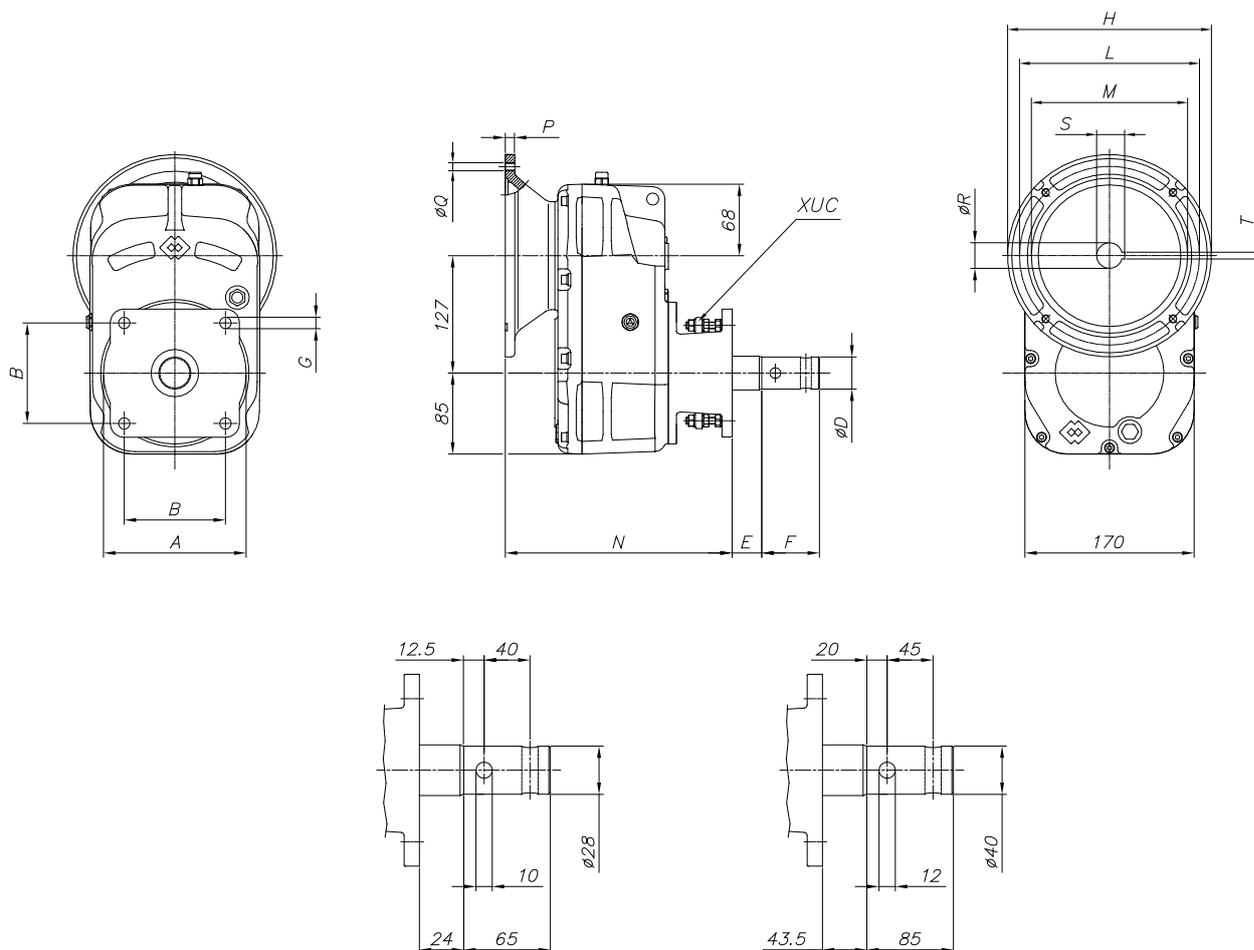


Gear reducer	Output		Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	<b>B41</b>	<b>28</b>	100 - 120	150	92	/	28 x 25	24	65	4	12
	<b>B41</b>	<b>40</b>	150 - 200 - 250	150	105	/	40 x 36	43.5	85	4	12

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
												B41 (28)	B41 (40)
<b>71</b>	160	130	110	243	10	M 8	14	16	5	/	/	26	27
<b>80</b>	200	165	130	259	12	M 10	19	21.5	6	/	/	27	29
<b>90</b>	200	165	130	259	12	M 10	24	27	8	/	/	27	29
<b>100 - 112</b>	250	215	180	269	14	M 12	28	31	8	/	/	29	31

**9.3**
**S41 GEAR REDUCER - B5 OUTPUT**

*S41*



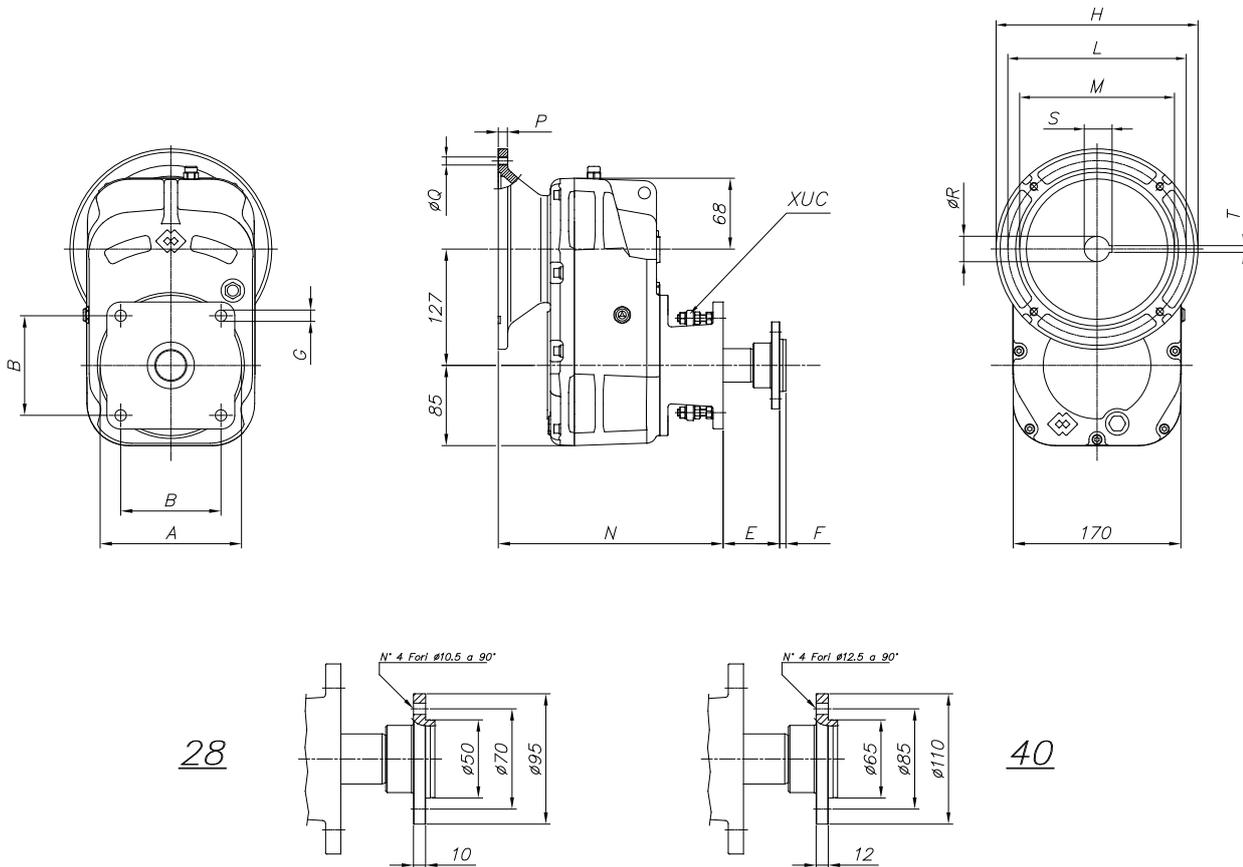
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G		
									N°	Ø	
Testata motrice	Uscita	Ø Coclea									
<b>S41</b>	<b>B51</b>	<b>28</b>	100 - 120	150	92	/	28	24	65	4	12
	<b>B51</b>	<b>40</b>	150 - 200 - 250	150	105	/	40	43.5	85	4	12

\* = chrome-plated shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
												B51 (28)	B51 (40)
Grand. motore													
<b>71</b>	160	130	110	243	10	M 8	14	16	5	/	/	26	27
<b>80</b>	200	165	130	259	12	M 10	19	21.5	6	/	/	27	29
<b>90</b>	200	165	130	259	12	M 10	24	27	8	/	/	27	29
<b>100 - 112</b>	250	215	180	269	14	M 12	28	31	8	/	/	29	31

## 9.4

## S41 GEAR REDUCER - B6 OUTPUT

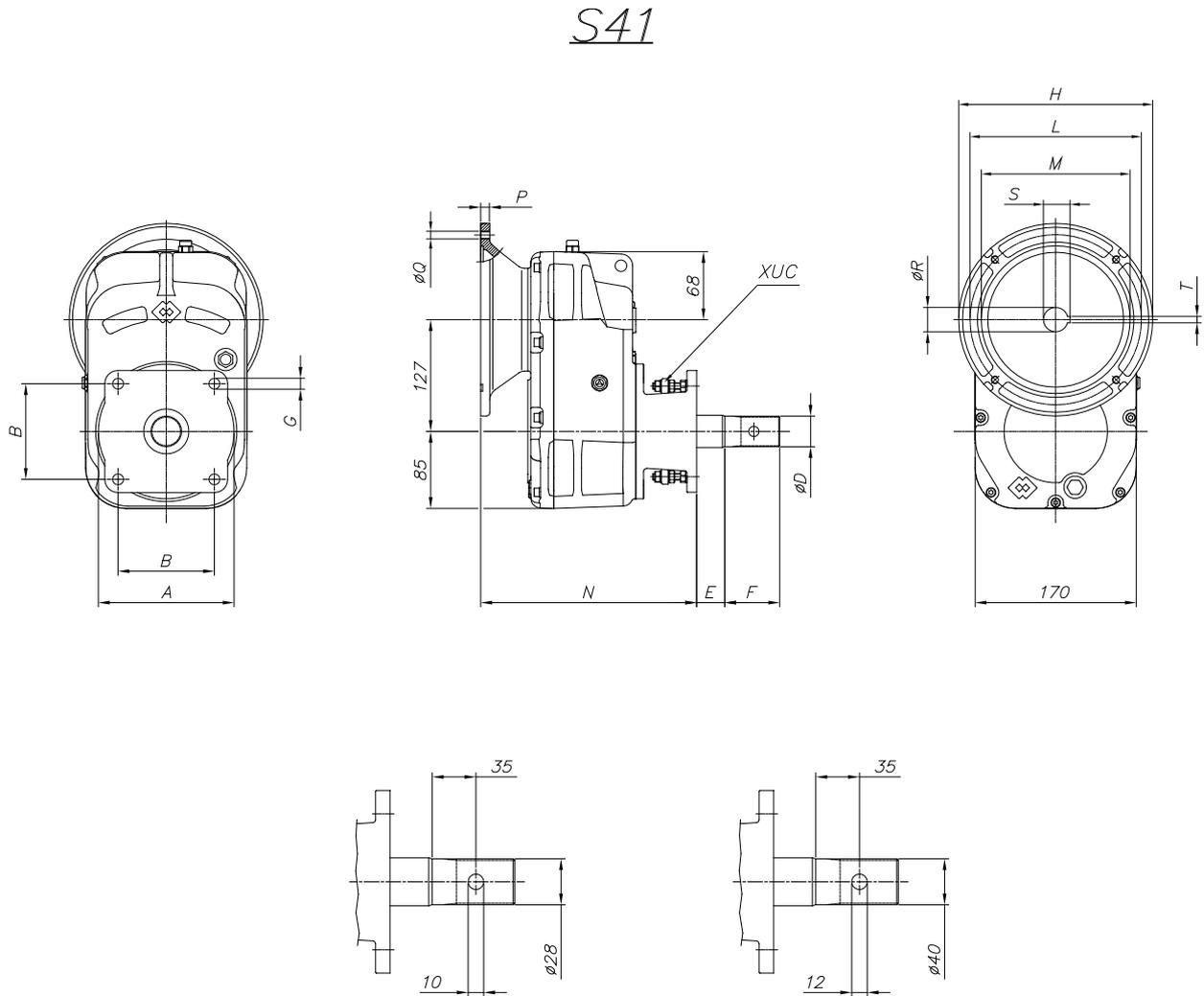
S41


Gear reducer	Output		Ø Screw Ø Coclea	Ø A	B	Ø C	Ø D*	E	F	Ø G	
	Testata motrice	Uscita								N°	Ø
S41	B61	28	100 - 120	150	92	/	/	55.5	2.5	4	12
	B61	40	150 - 200 - 250	150	105	/	/	72.5	5.5	4	12

\* = shaft with flanged end

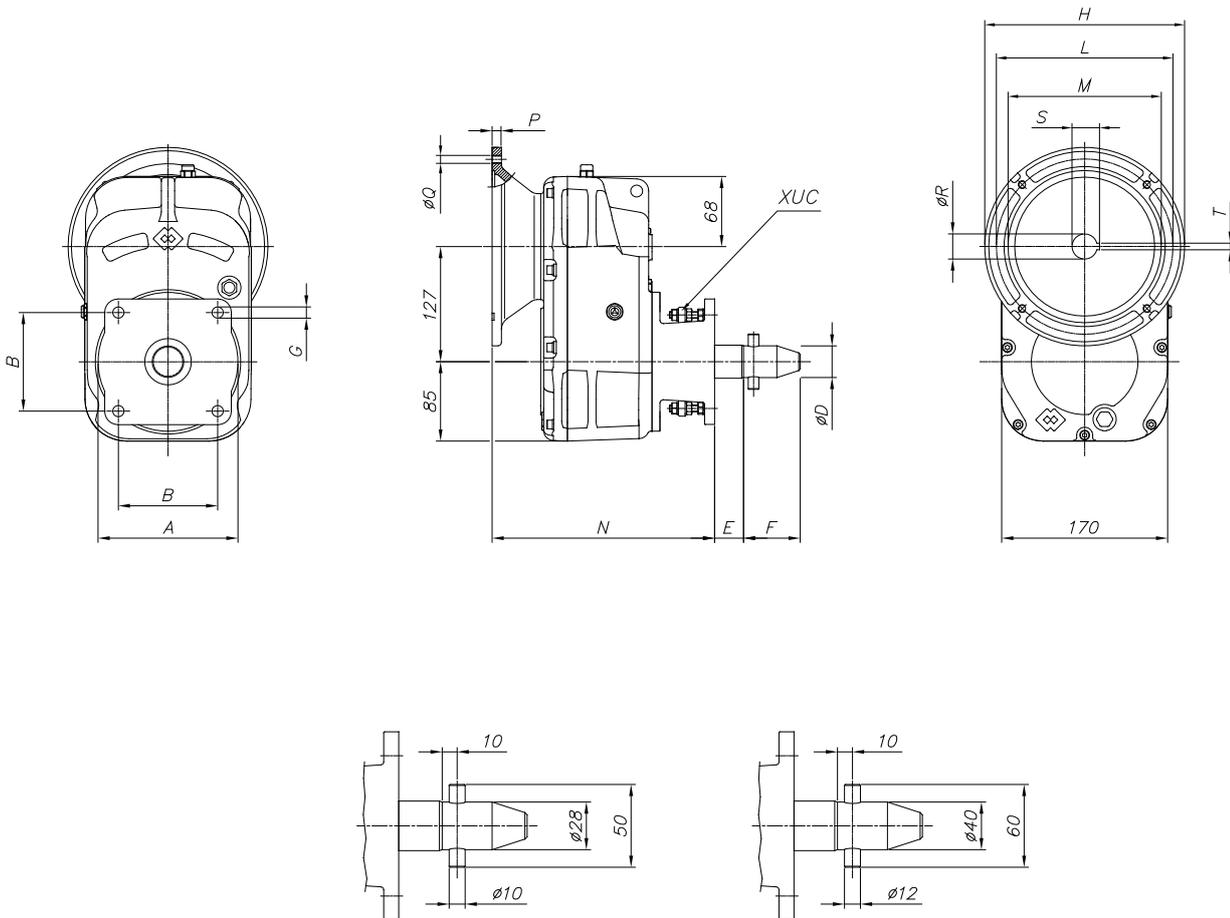
 = Not in production

Motor size Grand. motore	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
												B61 (28)	B61 (40)
71	160	130	110	243	10	M 8	14	16	5	/	/	27	28
80	200	165	130	259	12	M 10	19	21.5	6	/	/	28	29.5
90	200	165	130	259	12	M 10	24	27	8	/	/	28	29.5
100 - 112	250	215	180	269	14	M 12	28	31	8	/	/	30	31.5

**9.5**
**S41 GEAR REDUCER - B7 OUTPUT**


Gear reducer	Output		Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	<b>B71</b>	<b>28</b>	100 - 120	150	92	/	28 x 25	24	65	4	12
	<b>B71</b>	<b>40</b>	150 - 200 - 250	150	105	/	40 x 36	43.5	85	4	12

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
Grand. motore												B71 (28)	B71 (40)
<b>71</b>	160	130	110	243	10	M 8	14	16	5	/	/	26	27
<b>80</b>	200	165	130	259	12	M 10	19	21.5	6	/	/	27	29
<b>90</b>	200	165	130	259	12	M 10	24	27	8	/	/	27	29
<b>100 - 112</b>	250	215	180	269	14	M 12	28	31	8	/	/	29	31

**9.6**
**S41 GEAR REDUCER - B8 OUTPUT**
*S41*


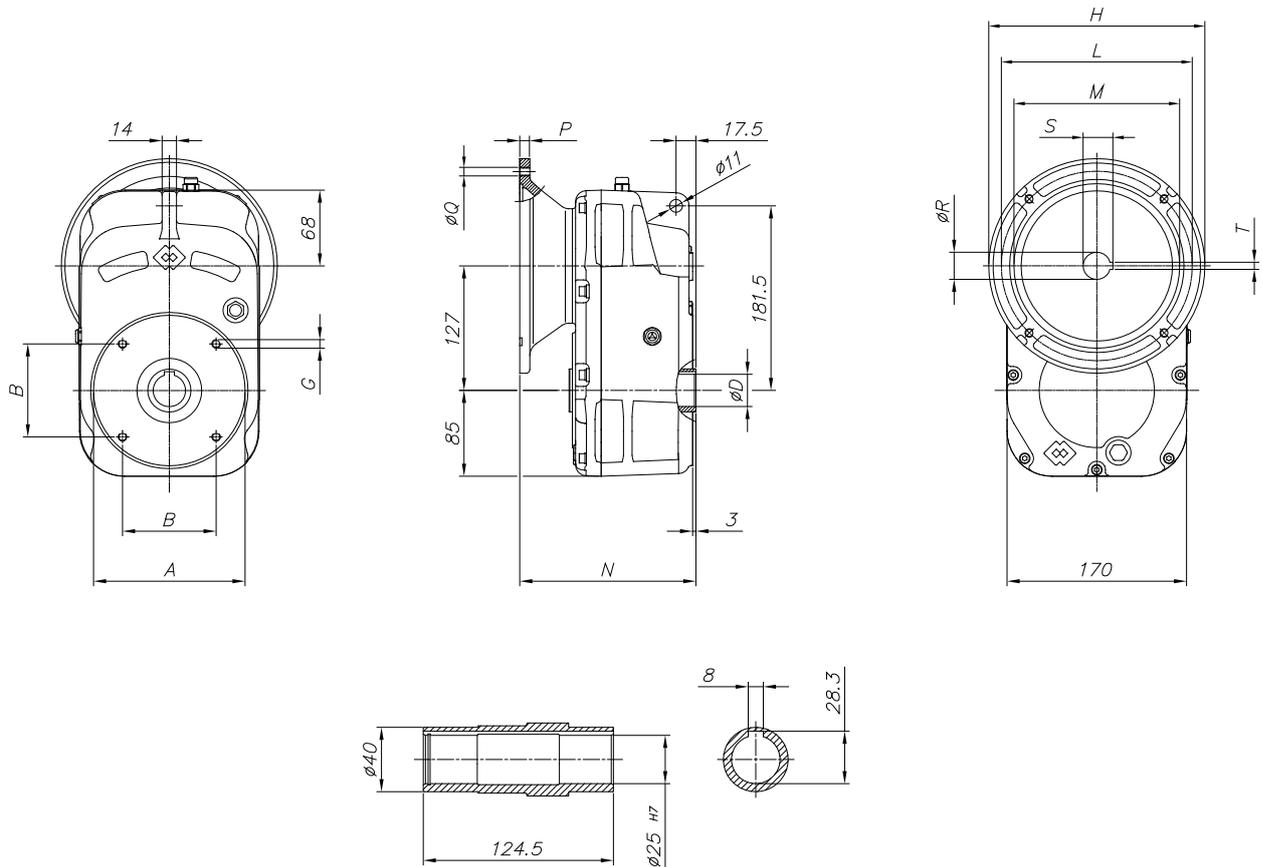
Gear reducer	Output		Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	B81	28	100 - 120	150	92	/	28	24	65	4	12
	B81	40	150 - 200 - 250	150	105	/	40	43.5	85	4	12

\* = stainless steel shaft

Motor size	Grand. motore	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]	
													B81 (28)	B81 (40)
71		160	130	110	243	10	M 8	14	16	5	/	/	26	27
80		200	165	130	259	12	M 10	19	21.5	6	/	/	27	29
90		200	165	130	259	12	M 10	24	27	8	/	/	27	29
100 - 112		250	215	180	269	14	M 12	28	31	8	/	/	29	31

**9.7**
**S41 GEAR REDUCER - CV OUTPUT**

## S41



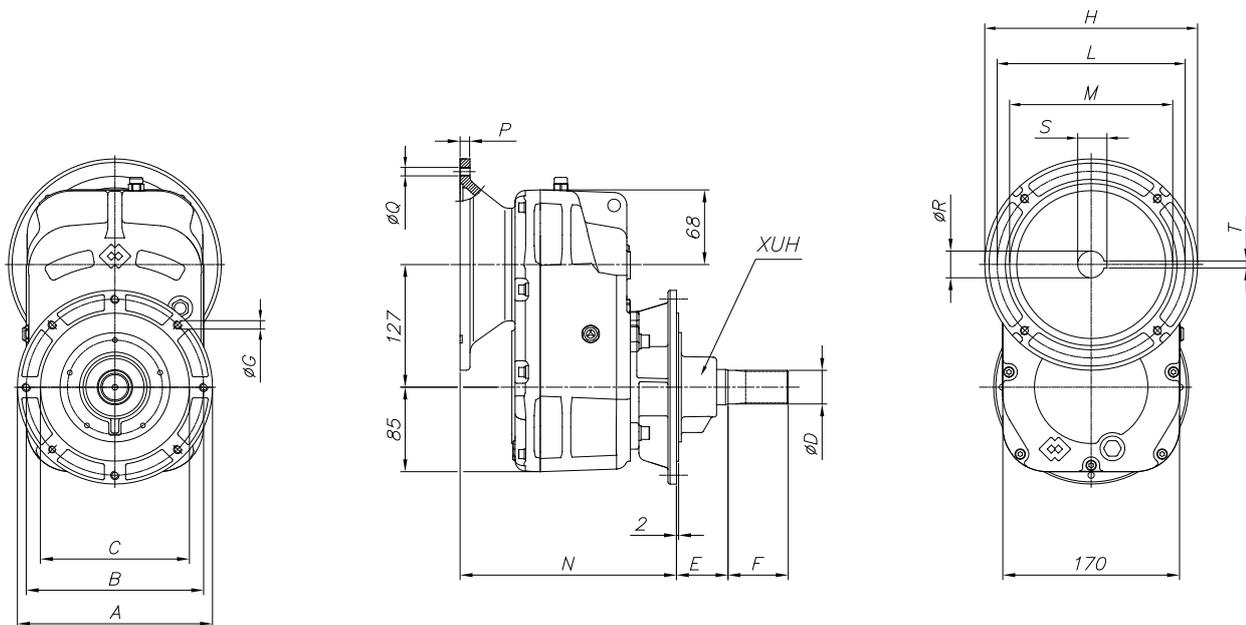
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S41</b>	<b>CV 1</b>	/	150	92	/	25	/	/	4	M10

\* = hollow shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												CV1
<b>71</b>	160	130	110	152	10	M 8	14	16	5	/	/	21
<b>80</b>	200	165	130	168	12	M 10	19	21.5	6	/	/	22
<b>90</b>	200	165	130	168	12	M 10	24	27	8	/	/	22
<b>100 - 112</b>	250	215	180	178	14	M 12	28	31	8	/	/	24

**9.8**
**S41 GEAR REDUCER - ES OUTPUT**

*S41*

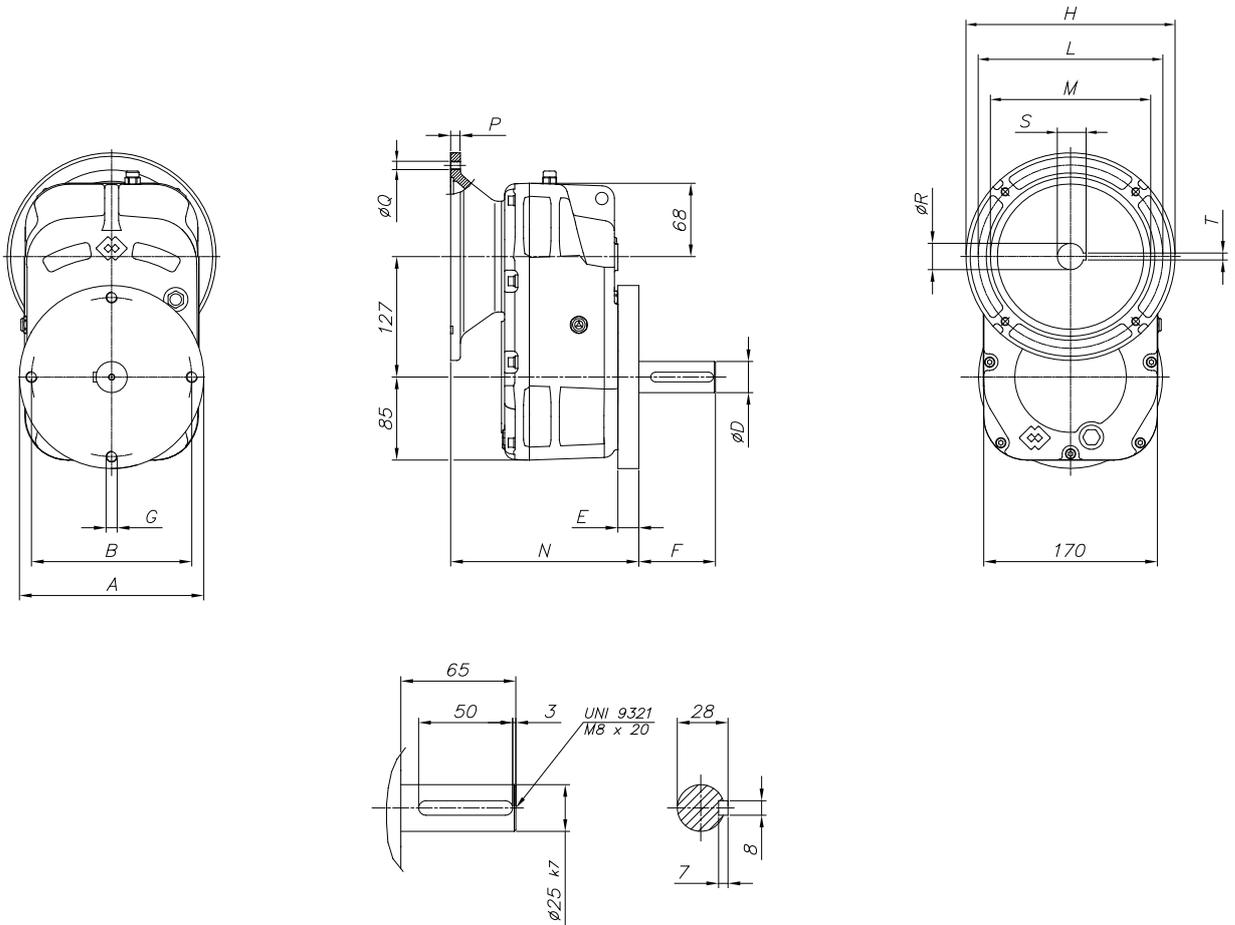


Gear reducer	Output		Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	ES	0	114 - 139	190	170	148	28 x 25	54	65	4	M 8
	ES	1	168	250	220	162	40 x 36	72.5	85	8	M 10
	ES	2	193	250	220	186	40 x 36	72.5	85	8	M 10
	/	/	/	/	/	/	/	/	/	/	/

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										ES0	ES1	ES2	ES3	ES4
<b>71</b>	160	130	110	214	10	M 8	14	16	5	27	30	30	/	/
<b>80</b>	200	165	130	230	12	M 10	19	21.5	6	28	31	31	/	/
<b>90</b>	200	165	130	230	12	M 10	24	27	8	28	31	31	/	/
<b>100 - 112</b>	250	215	180	240	14	M 12	28	31	8	30	33	33	/	/

**9.9**
**S41 GEAR REDUCER - K OUTPUT**

*S41*

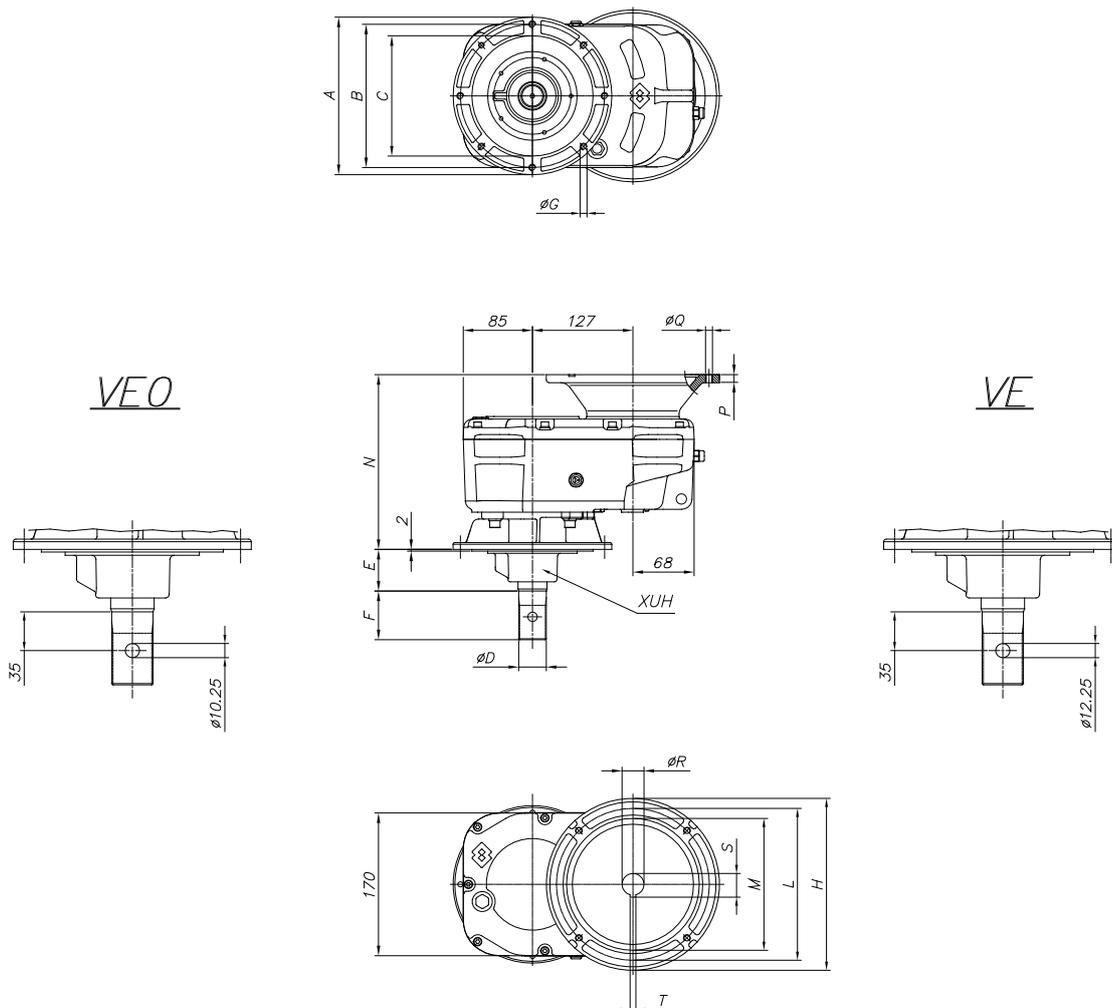


Gear reducer	Output	Ø Screw	Ø A	Ø B	Ø C	Ø D	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S41</b>	<b>K41</b>	/	175	145	/	25	18	65	4	M12

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												K41
<b>71</b>	160	130	110	167	10	M 8	14	16	5	/	/	23
<b>80</b>	200	165	130	183	12	M 10	19	21.5	6	/	/	25
<b>90</b>	200	165	130	183	12	M 10	24	27	8	/	/	25
<b>100 - 112</b>	250	215	180	193	14	M 12	28	31	8	/	/	27

**9.10**
**S41 GEAR REDUCER - VE OUTPUT**

*S41*

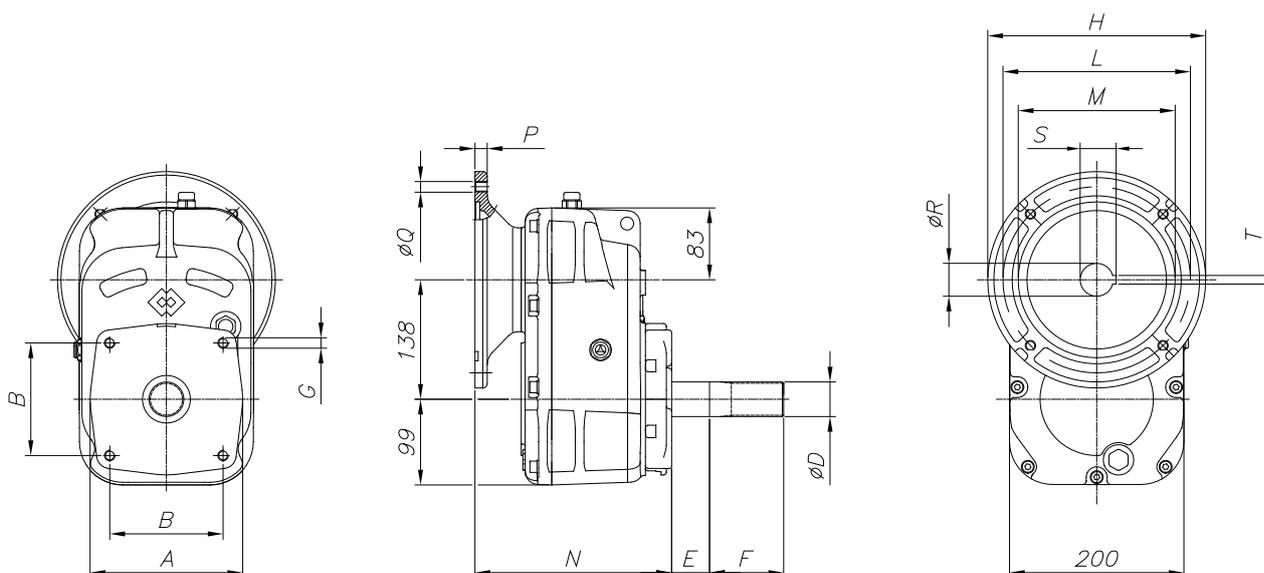


Gear reducer	Output		Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S41</b>	<b>VE</b>	<b>0</b>	114 - 139	190	170	148	28 x 25	54	65	4	M 8
	<b>VE</b>	<b>1</b>	168	250	220	162	40 x 36	72.5	85	8	M 10
	<b>VE</b>	<b>2</b>	193	250	220	186	40 x 36	72.5	85	8	M 10
	/	/	/	/	/	/	/	/	/	/	/

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										VE0	VE1	VE2	VE3	VE4
<b>71</b>	160	130	110	214	10	M 8	14	16	5	27	30	30	/	/
<b>80</b>	200	165	130	230	12	M 10	19	21.5	6	28	31	31	/	/
<b>90</b>	200	165	130	230	12	M 10	24	27	8	28	31	31	/	/
<b>100 - 112</b>	250	215	180	240	14	M 12	28	31	8	30	33	33	/	/

**10.0**
**S43 GEAR REDUCER**
**10.1**
**S43 GEAR REDUCER - A3 OUTPUT**

*S43*

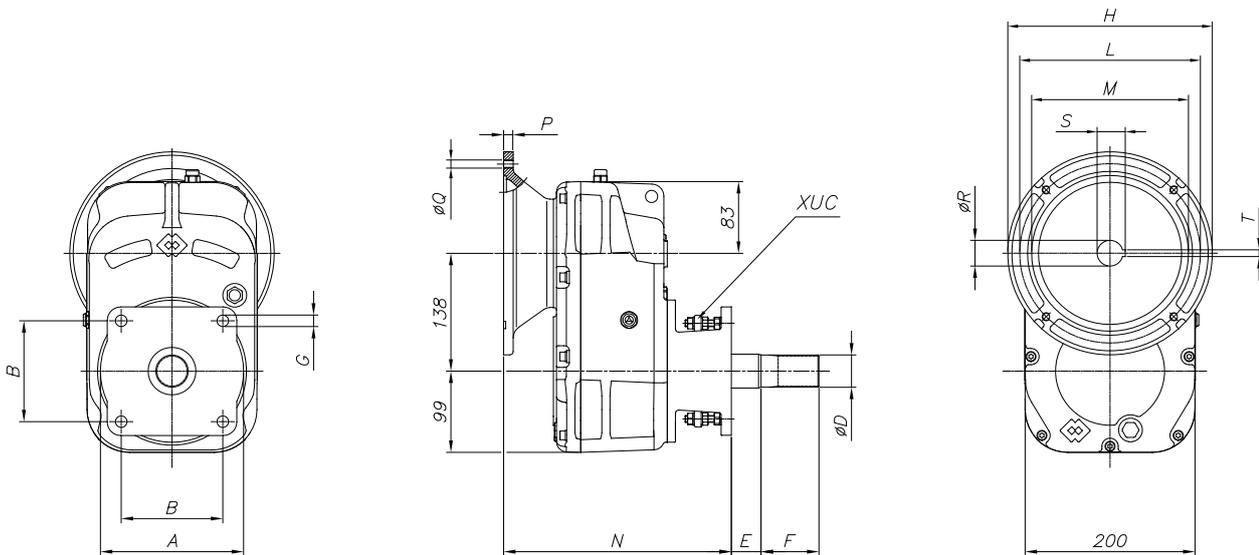


Gear reducer	Output	Ø Screw	A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>A33</b>	150	175	105	/	40 x 36	43.5	85	4	M12
		≥ 200		130	/					

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore	A33											
<b>80</b>	200	165	130	216.5	12	M 10	19	21.5	6	/	/	38
<b>90</b>	200	165	130	216.5	12	M 10	24	27	8	/	/	38
<b>100 - 112</b>	250	215	180	225.5	14	M 12	28	31	8	/	/	39
<b>132</b>	300	265	230	245.5	14	M 12	38	41	10	/	/	42

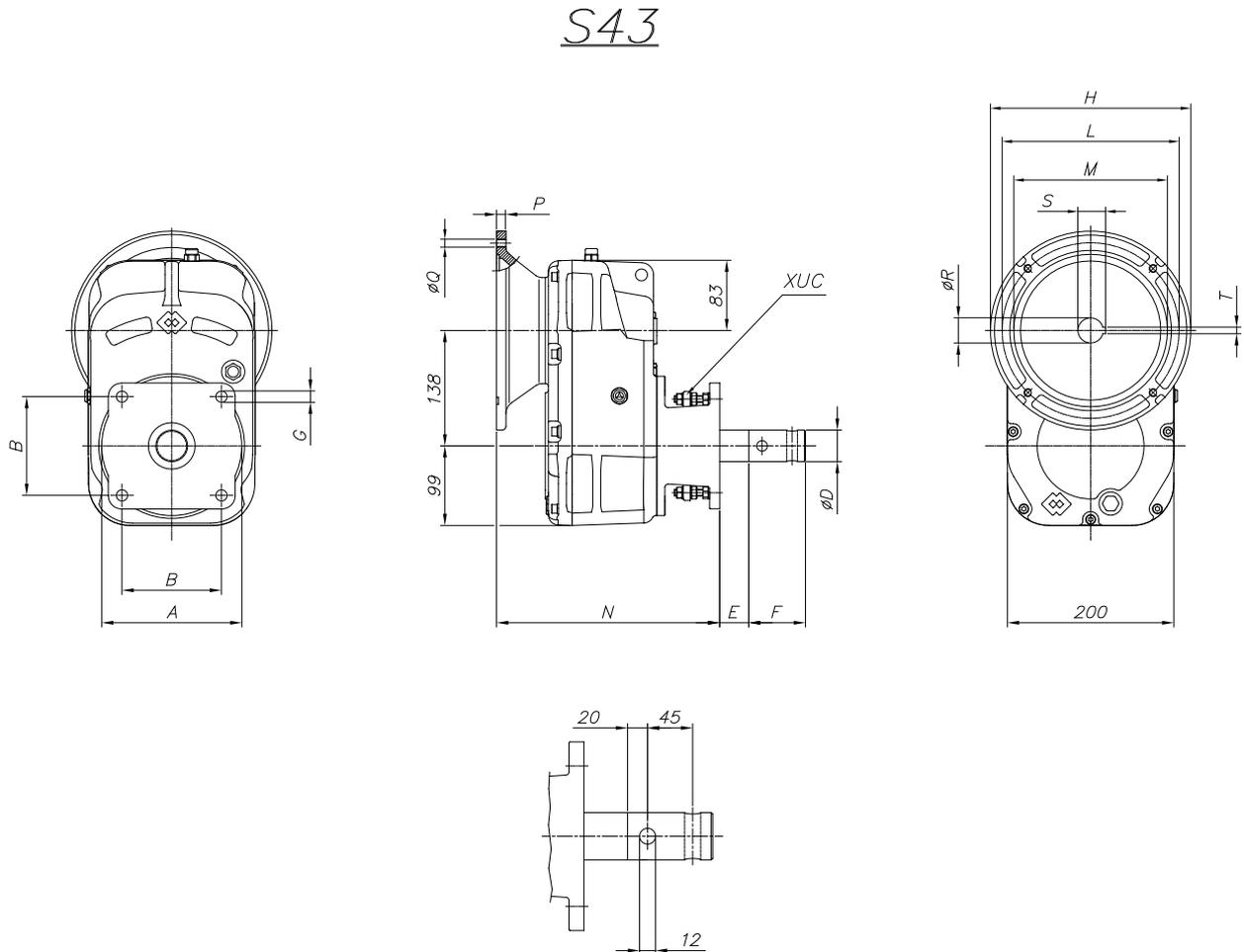
**10.2**
**S43 GEAR REDUCER - B4 OUTPUT**

*S43*



Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>B43</b>	150	175	105	/	40 x 36	43.5	85	4	14
		≥ 200		130	/					

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B43
<b>80</b>	200	165	130	280.5	12	M 10	19	21.5	6	/	/	41
<b>90</b>	200	165	130	280.5	12	M 10	24	27	8	/	/	41
<b>100 - 112</b>	250	215	180	289.5	14	M 12	28	31	8	/	/	43
<b>132</b>	300	265	230	309.5	14	M 12	38	41	10	/	/	45

**10.3**
**S43 GEAR REDUCER - B5 OUTPUT**


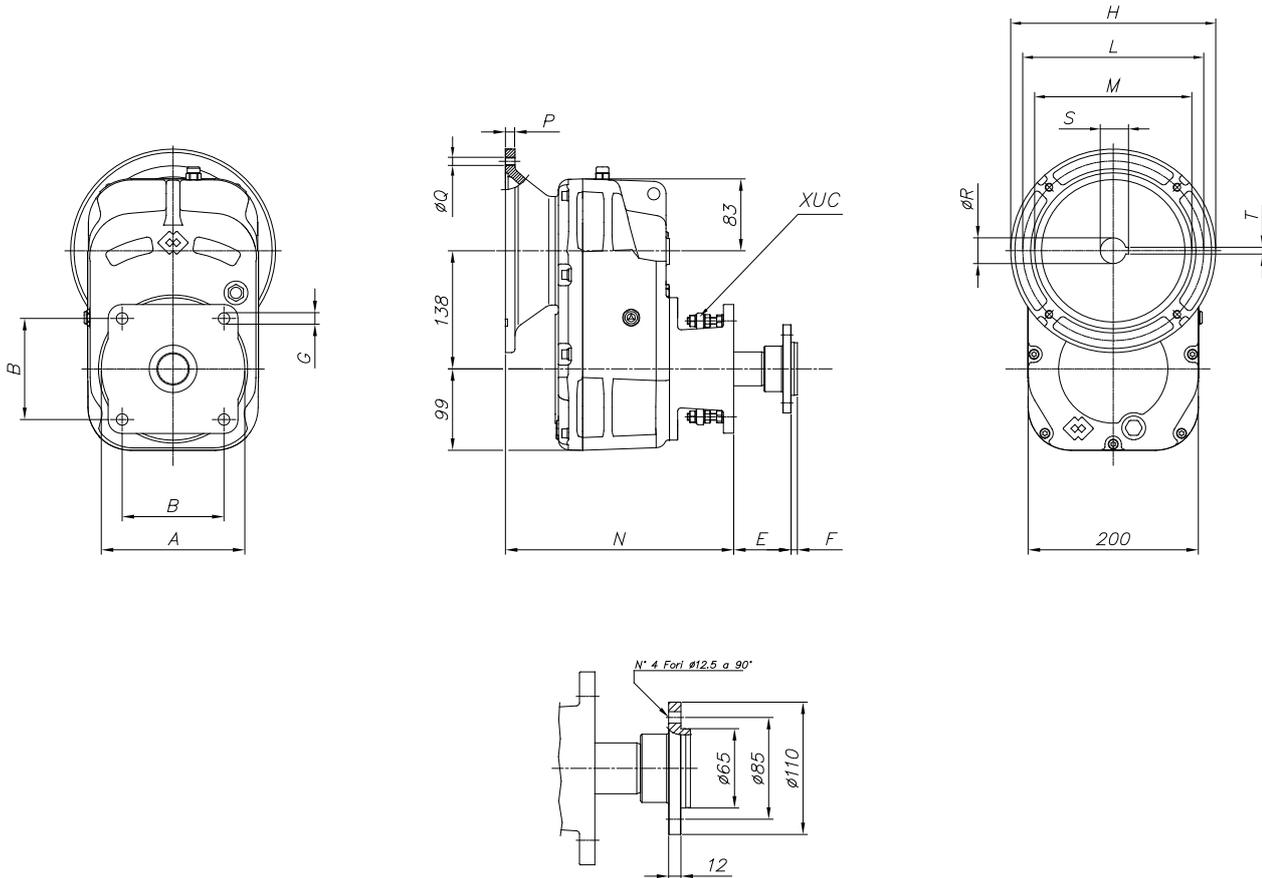
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>B53</b>	150	175	105	/	40	43.5	85	4	14
		≥ 200		130	/					

\* = chrome-plated shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore	B53											
<b>80</b>	200	165	130	280.5	12	M 10	19	21.5	6	/	/	41
<b>90</b>	200	165	130	280.5	12	M 10	24	27	8	/	/	41
<b>100 - 112</b>	250	215	180	289.5	14	M 12	28	31	8	/	/	43
<b>132</b>	300	265	230	309.5	14	M 12	38	41	10	/	/	45

**10.4**
**S43 GEAR REDUCER - B6 OUTPUT**

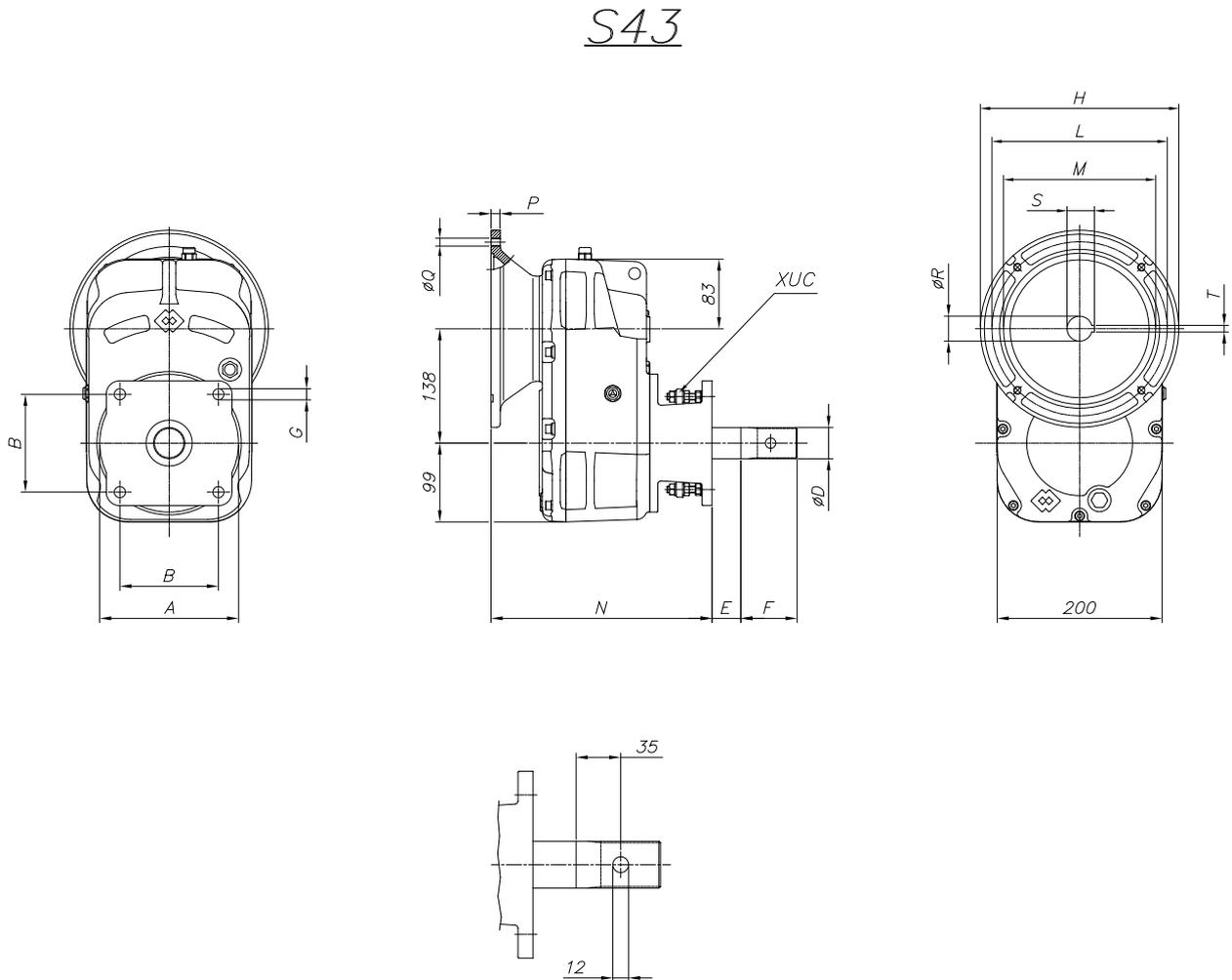
## S43



Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S43</b>	<b>B63</b>	150	175	105	/	/	72.5	5.5	4	14
		≥ 200		130						

\* = shaft with flanged end

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B63
<b>80</b>	200	165	130	280.5	12	M 10	19	21.5	6	/	/	42
<b>90</b>	200	165	130	280.5	12	M 10	24	27	8	/	/	42
<b>100 - 112</b>	250	215	180	289.5	14	M 12	28	31	8	/	/	43.5
<b>132</b>	300	265	230	309.5	14	M 12	38	41	10	/	/	46

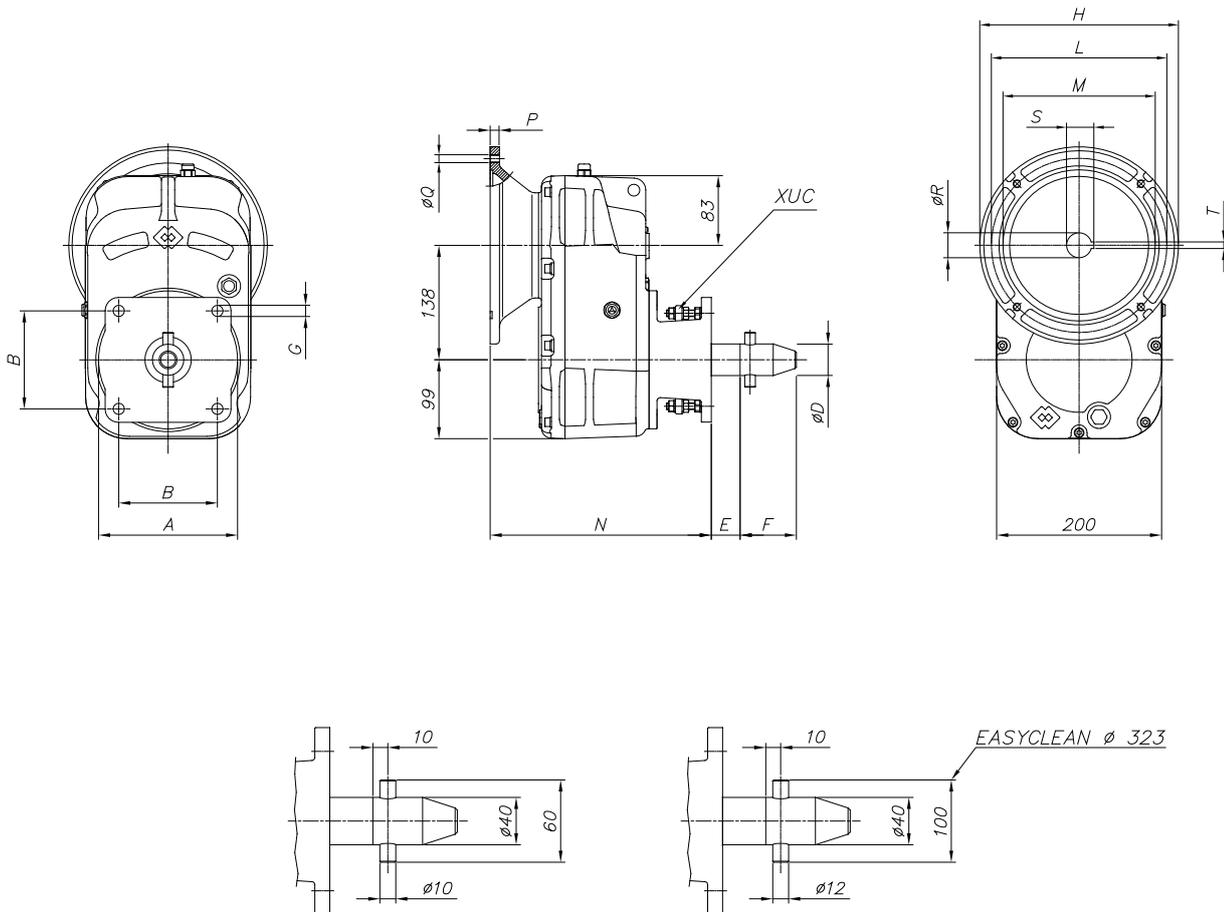
**10.5**
**S43 GEAR REDUCER - B7 OUTPUT**


Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>B73</b>	150	175	105	/	40 x 36	43.5	85	4	14
		≥ 200		130	/					

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore												B73
<b>80</b>	200	165	130	280.5	12	M 10	19	21.5	6	/	/	41
<b>90</b>	200	165	130	280.5	12	M 10	24	27	8	/	/	41
<b>100 - 112</b>	250	215	180	289.5	14	M 12	28	31	8	/	/	43
<b>132</b>	300	265	230	309.5	14	M 12	38	41	10	/	/	45

**10.6**
**S43 GEAR REDUCER - B8 OUTPUT**

*S43*



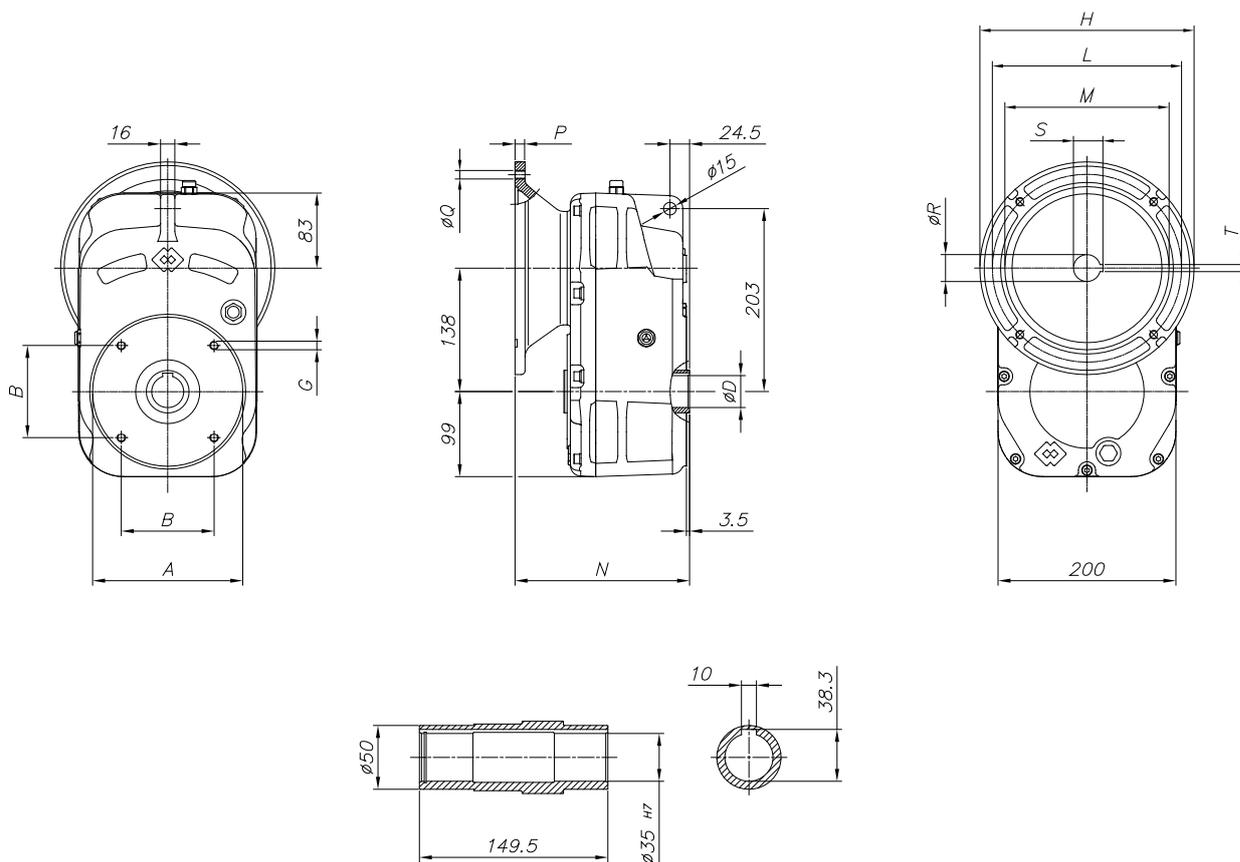
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>B83</b>	150	175	105	/	40	43.5	85	4	14
		≥ 200		130	/					

\* = stainless steel shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B83
<b>80</b>	200	165	130	280.5	12	M 10	19	21.5	6	/	/	41
<b>90</b>	200	165	130	280.5	12	M 10	24	27	8	/	/	41
<b>100 - 112</b>	250	215	180	289.5	14	M 12	28	31	8	/	/	43
<b>132</b>	300	265	230	309.5	14	M 12	38	41	10	/	/	45

**10.7**
**S43 GEAR REDUCER - CV OUTPUT**

## S43



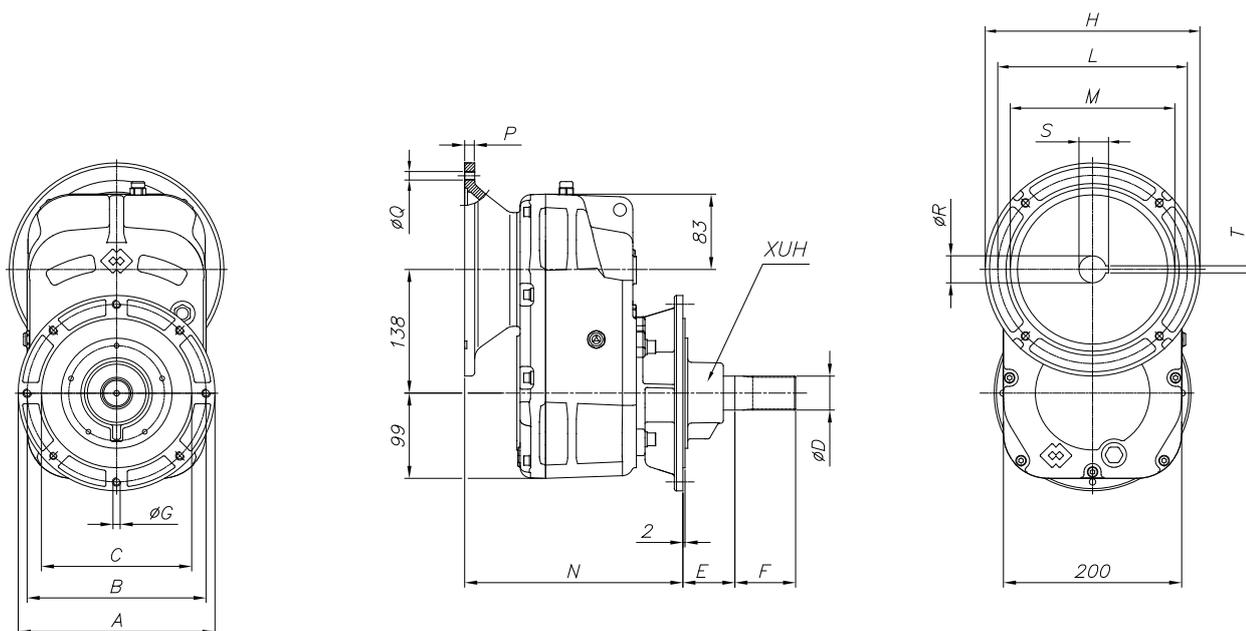
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>CV3</b>	/	175	105	/	35	/	/	4	M12

\* = hollow shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												CV3
<b>80</b>	200	165	130	190	12	M 10	19	21.5	6	/	/	32
<b>90</b>	200	165	130	190	12	M 10	24	27	8	/	/	32
<b>100 - 112</b>	250	215	180	199	14	M 12	28	31	8	/	/	34
<b>132</b>	300	265	230	219	14	M 12	38	41	10	/	/	36

**10.8**
**S43 GEAR REDUCER - ES OUTPUT**

*S43*

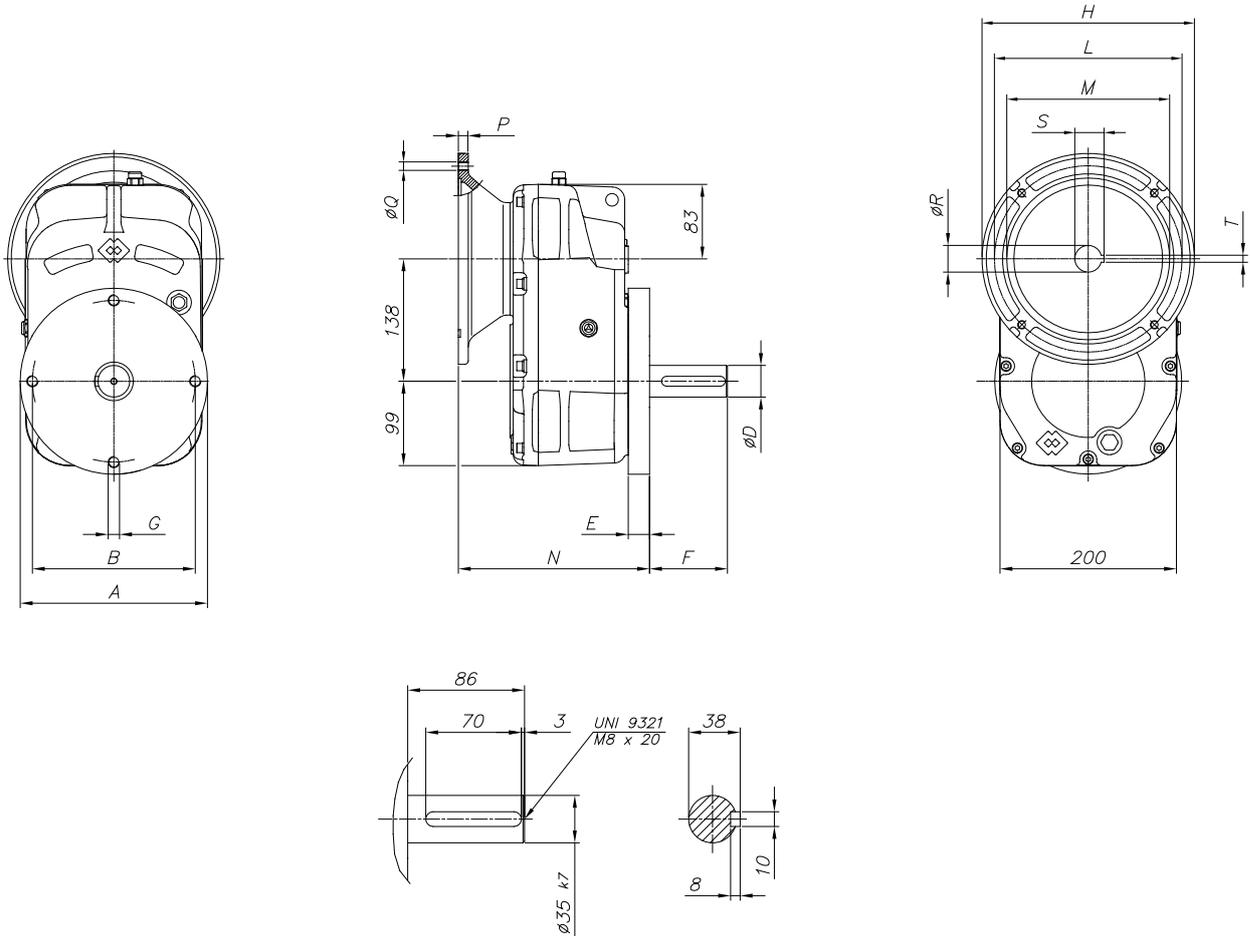


Gear reducer	Output		Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S43</b>	ES	1	168	250	220	162	40 x 36	72.5	85	8	M 10
	ES	2	193	250	220	186	40 x 36	72.5	85	8	M 10
	ES	3	219	275	250	210	40 x 36	72.5	85	8	M 10
	ES	4	273	330	305	265	40 x 36	72.5	85	8	M 10
	ES	5	323	405	370	315	40 x 36	72.5	85	8	M 10

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										ES1	ES2	ES3	ES4	ES5
<b>80</b>	200	165	130	251.5	12	M 10	19	21.5	6	42	42	43	45	54
<b>90</b>	200	165	130	251.5	12	M 10	24	27	8	42	42	43	45	54
<b>100 - 112</b>	250	215	180	260.5	14	M 12	28	31	8	43	43	45	46	56
<b>132</b>	300	265	230	280.5	14	M 12	38	41	10	46	46	47	48	58

**10.9**
**S43 GEAR REDUCER - K OUTPUT**

## S43



Gear reducer	Output	Ø Screw	Ø A	Ø B	Ø C	Ø D	E	F	Ø G	
									N°	Ø
<b>S43</b>	<b>K43</b>	/	215	185	/	35	20	86	4	M12

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore												K43
<b>80</b>	200	165	130	206.5	12	M 10	19	21.5	6	/	/	37
<b>90</b>	200	165	130	206.5	12	M 10	24	27	8	/	/	37
<b>100 - 112</b>	250	215	180	215.5	14	M 12	28	31	8	/	/	39
<b>132</b>	300	265	230	235.5	14	M 12	38	41	10	/	/	41



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10.10

S43 TYPE GEAR REDUCER - VE OUTPUT

05.16

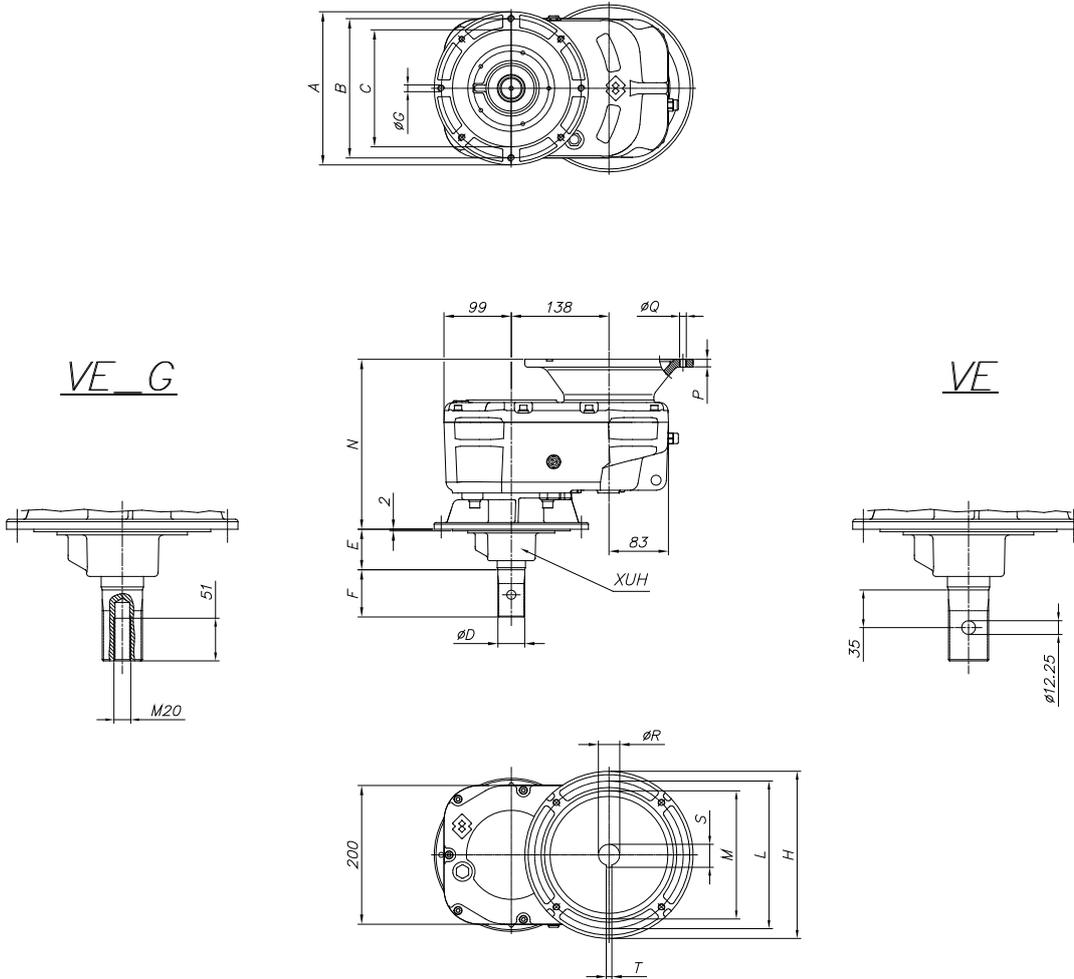
1

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10.10

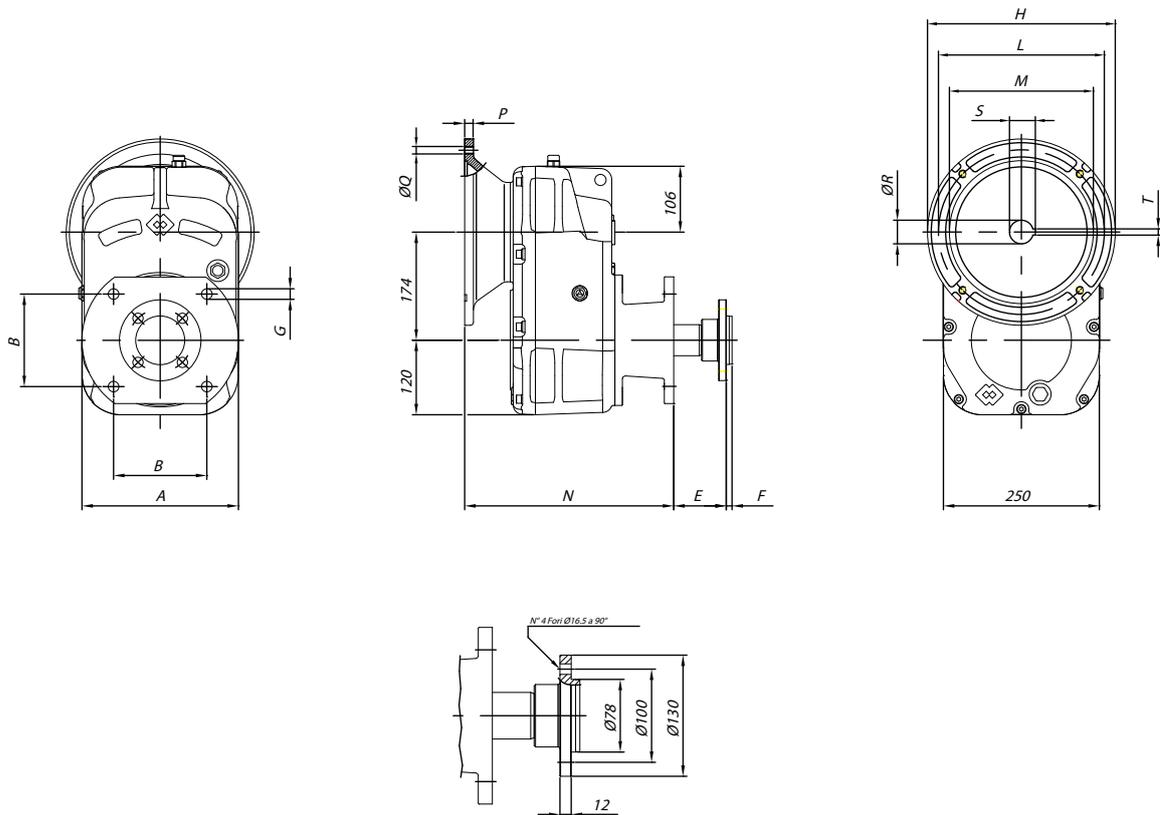
S43 TYPE GEAR REDUCER - VE OUTPUT

S43



Gear reducer	Output		$\phi$ Screw	$\phi A$	$\phi B$	$\phi C$	$\phi D$ DIN 5482	E	F	$\phi G$	
	Testata motrice	Uscita	$\phi$ Coclea							N°	$\phi$
S43	VE	1	168	250	220	162	40 x 36	72.5	85	8	M 10
	VE	2	193	250	220	186	40 x 36	72.5	85	8	M 10
	VE - VE_G	3	219	275	250	210	40 x 36	72.5	85	8	M 10
	VE - VE_G	4	273	330	305	265	40 x 36	72.5	85	8	M 10
	VE - VE_G	5	323	405	370	315	40 x 36	72.5	85	8	M 10

Motor size	$\phi H$	$\phi L$	$\phi M$	N	P	$\phi Q$	$\phi R$	S	T	WEIGHT [kg]				
										Grand. motore	VE1	VE2	VE3	VE4
80	200	165	130	251.5	12	M 10	19	21.5	6	42	42	43	45	54
90	200	165	130	251.5	12	M 10	24	27	8	42	42	43	45	54
100 - 112	250	215	180	260.5	14	M 12	28	31	8	43	43	45	46	56
132	300	265	230	280.5	14	M 12	38	41	10	46	46	47	48	58

**11.0**
**S45 GEAR REDUCER**
**11.1**
**S45 GEAR REDUCER - A6 OUTPUT**
*S45*


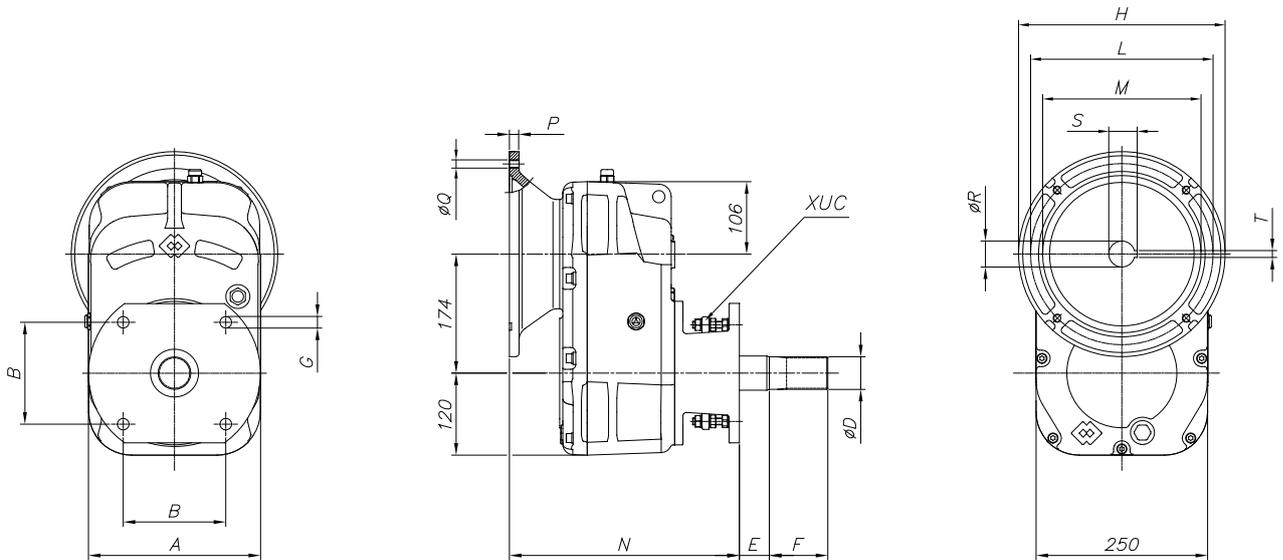
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S45</b>	<b>A65</b>	/	250	149	/	/	84	9.5	4	17

\* = shaft with flanged end

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [ kg ]
												A65
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	72

**11.2**
**S45 GEAR REDUCER - B4 OUTPUT**

*S45*

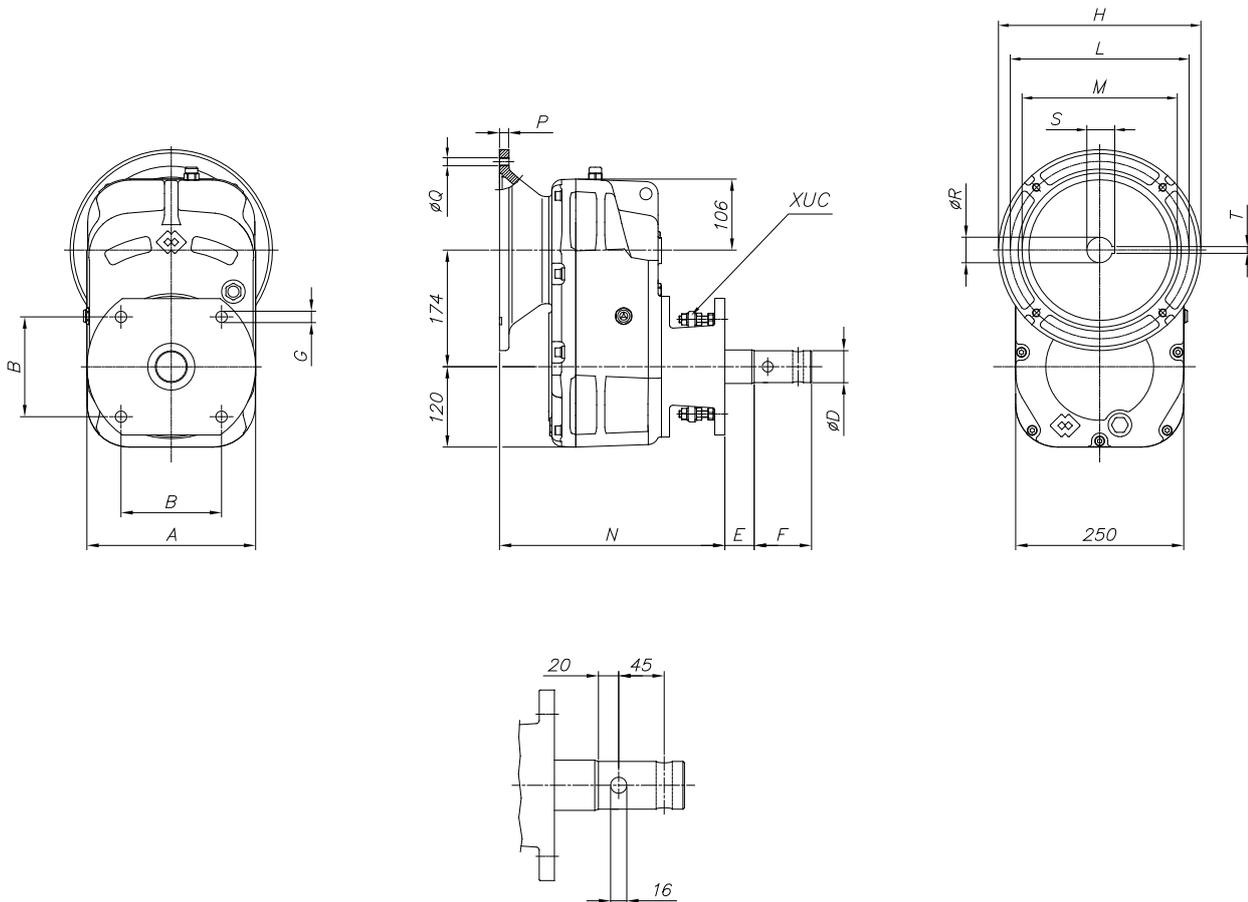


Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S45</b>	<b>B45</b>	/	250	149	/	48 x 44	43.5	85	4	17

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B45
<b>90</b>	200	165	130	304	12	M 10	24	27	8	/	/	70
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	71
<b>132</b>	300	265	230	334	14	M 12	38	41	10	/	/	74
<b>160</b>	350	300	250	364	15	M 16	42	45	12	/	/	78
<b>180</b>	350	300	250	364	15	M 16	48	51.5	14	/	/	78

**11.3**
**S45 GEAR REDUCER - B5 OUTPUT**

*S45*



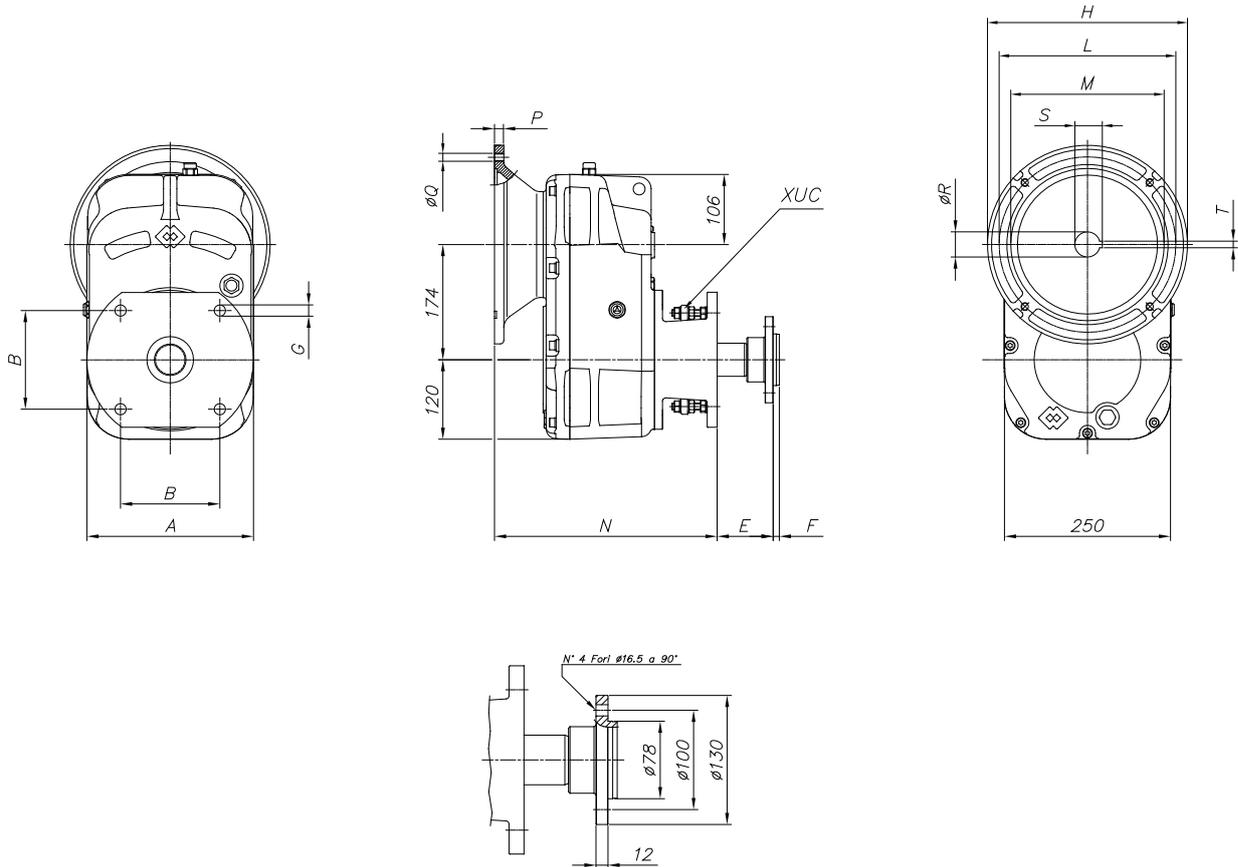
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S45</b>	<b>B55</b>	/	250	149	/	48	43.5	85	4	17

\* = chrome-plated shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B55
<b>90</b>	200	165	130	304	12	M 10	24	27	8	/	/	70
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	71
<b>132</b>	300	265	230	334	14	M 12	38	41	10	/	/	74
<b>160</b>	350	300	250	364	15	M 16	42	45	12	/	/	78
<b>180</b>	350	300	250	364	15	M 16	48	51.5	14	/	/	78

**11.4**
**S45 GEAR REDUCER - B6 OUTPUT**

*S45*



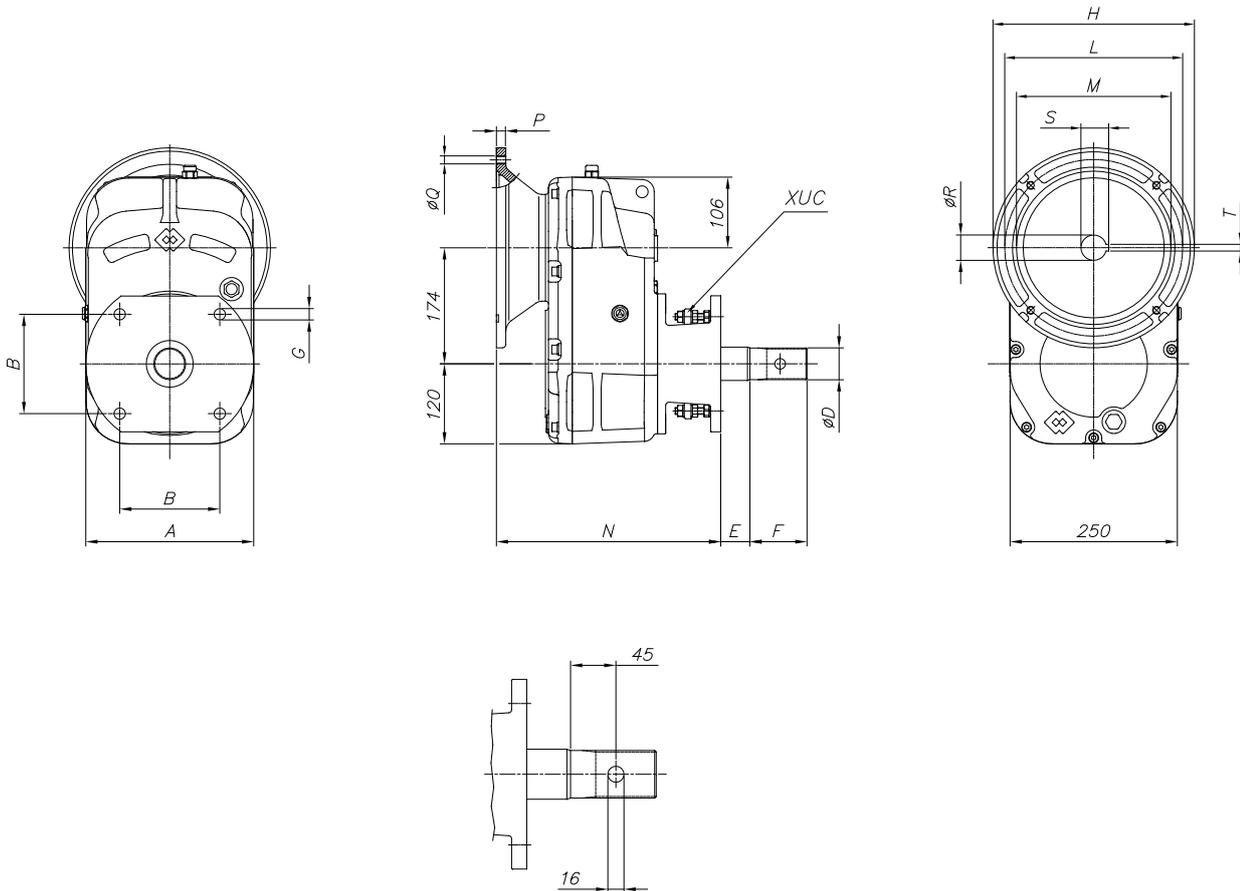
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S45</b>	<b>B65</b>	/	250	149	/	/	84	9.5	4	17

\* = shaft with flanged end

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore	B65											
<b>90</b>	200	165	130	304	12	M 10	24	27	8	/	/	71
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	72
<b>132</b>	300	265	230	334	14	M 12	38	41	10	/	/	75
<b>160</b>	350	300	250	364	15	M 16	42	45	12	/	/	79
<b>180</b>	350	300	250	364	15	M 16	48	51.5	14	/	/	79

**11.5**
**S45 GEAR REDUCER - B7 OUTPUT**

*S45*

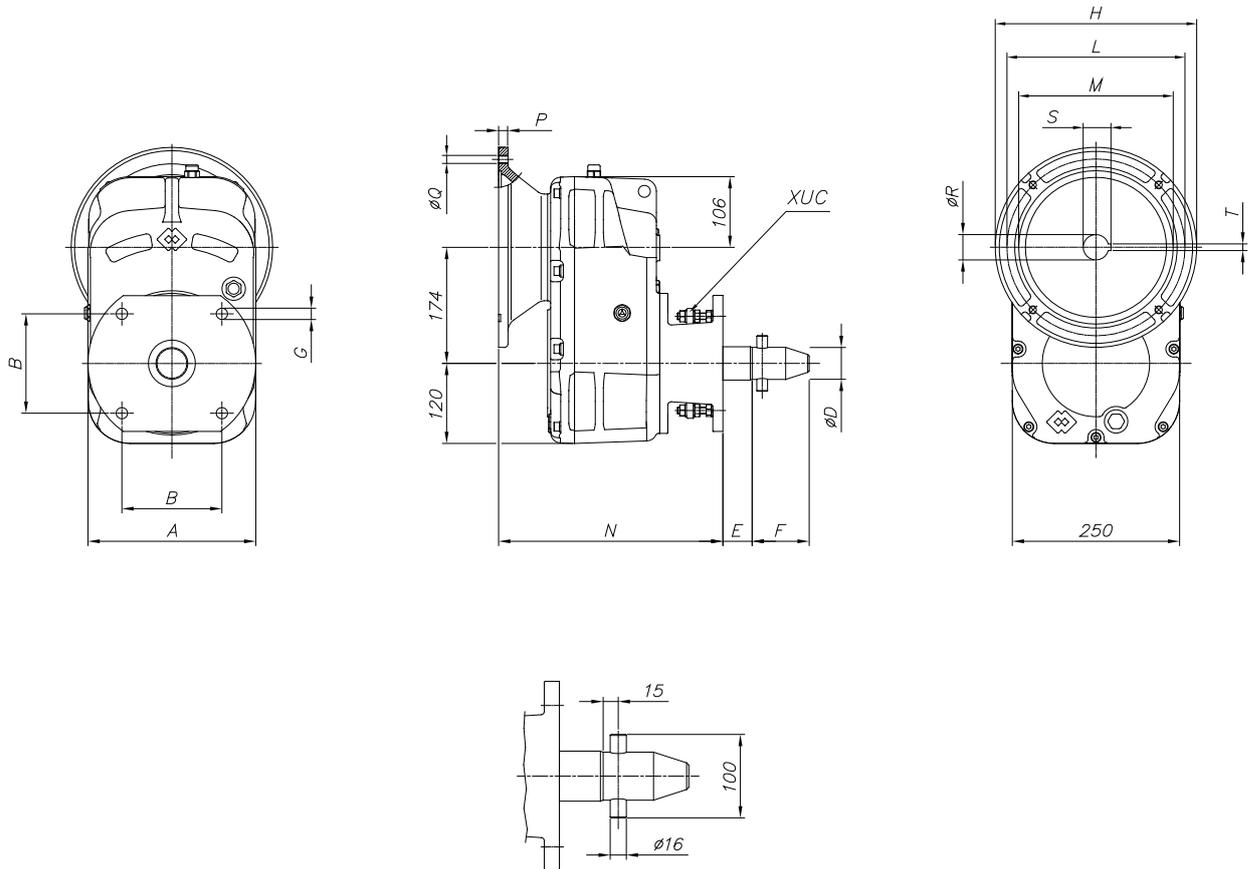


Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S45</b>	<b>B75</b>	/	250	149	/	48 x 44	43.5	85	4	17

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												<b>B75</b>
<b>90</b>	200	165	130	304	12	M 10	24	27	8	/	/	70
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	71
<b>132</b>	300	265	230	334	14	M 12	38	41	10	/	/	74
<b>160</b>	350	300	250	364	15	M 16	42	45	12	/	/	78
<b>180</b>	350	300	250	364	15	M 16	48	51.5	14	/	/	78

**11.6**
**S45 GEAR REDUCER - B8 OUTPUT**

*S45*



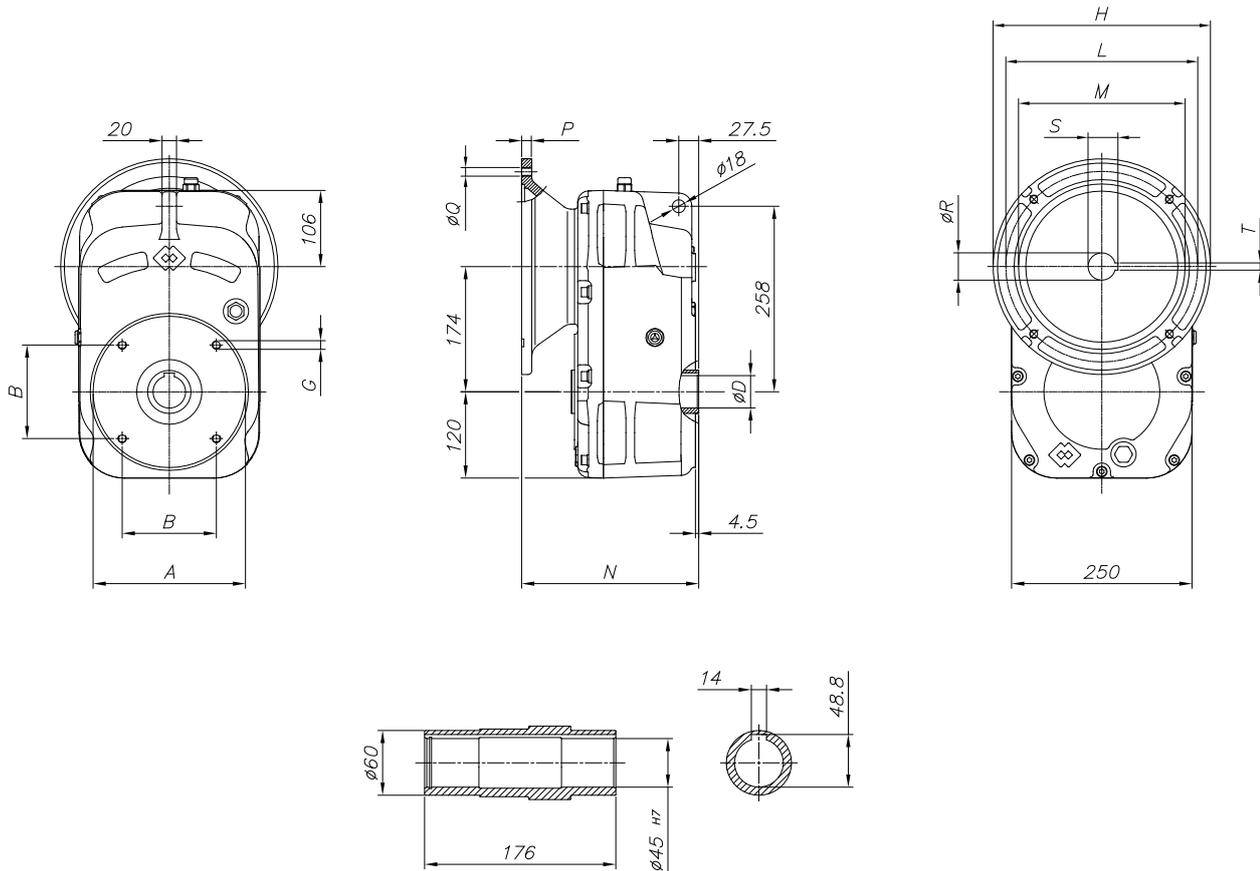
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S45</b>	<b>B85</b>	/	250	149	/	48	43.5	85	4	17

\* = stainless steel shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B85
<b>90</b>	200	165	130	304	12	M 10	24	27	8	/	/	70
<b>100 - 112</b>	250	215	180	314	14	M 12	28	31	8	/	/	71
<b>132</b>	300	265	230	334	14	M 12	38	41	10	/	/	74
<b>160</b>	350	300	250	364	15	M 16	42	45	12	/	/	78
<b>180</b>	350	300	250	364	15	M 16	48	51.5	14	/	/	78

**11.7**
**S45 GEAR REDUCER - CV OUTPUT**

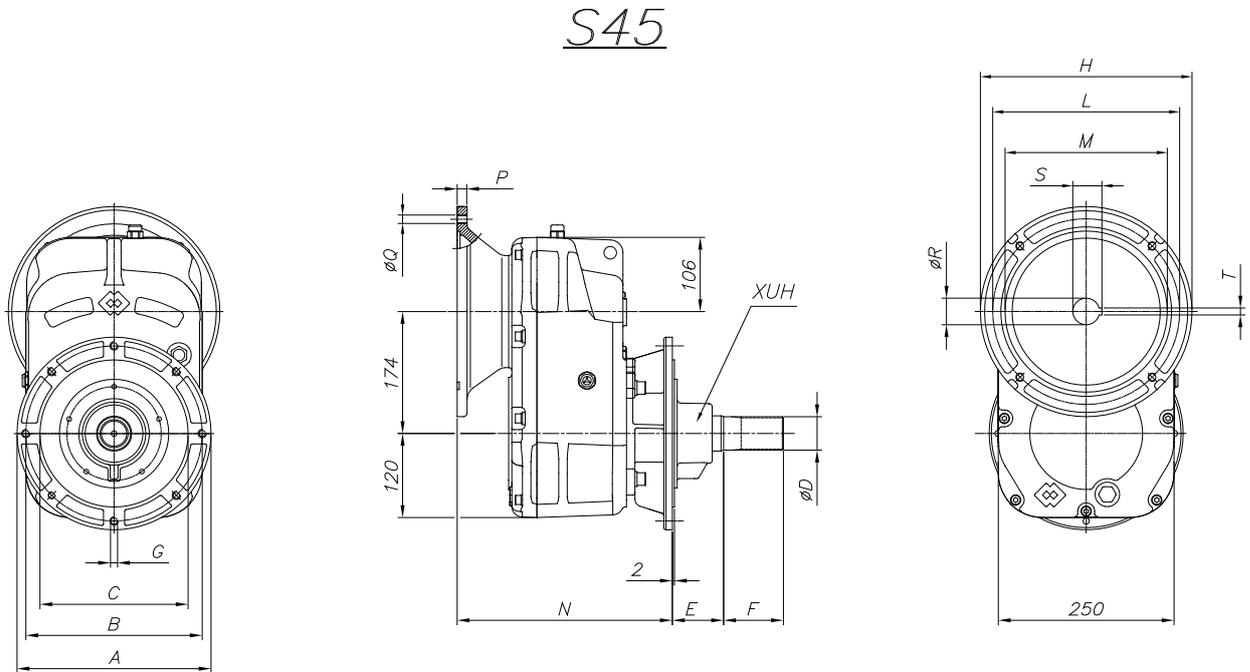
## S45



Gear reducer	Output	Ø Screw Ø Coclea	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S45</b>	<b>CV5</b>	/	210	130	/	45	/	/	4	17

\* = hollow shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
Grand. motore												CV5
<b>90</b>	200	165	130	214.5	12	M 10	24	27	8	/	/	54
<b>100 - 112</b>	250	215	180	224.5	14	M 12	28	31	8	/	/	55
<b>132</b>	300	265	230	244.5	14	M 12	38	41	10	/	/	58
<b>160</b>	350	300	250	274.5	15	M 16	42	45	12	/	/	63
<b>180</b>	350	300	250	274.5	15	M 16	48	51.5	14	/	/	63

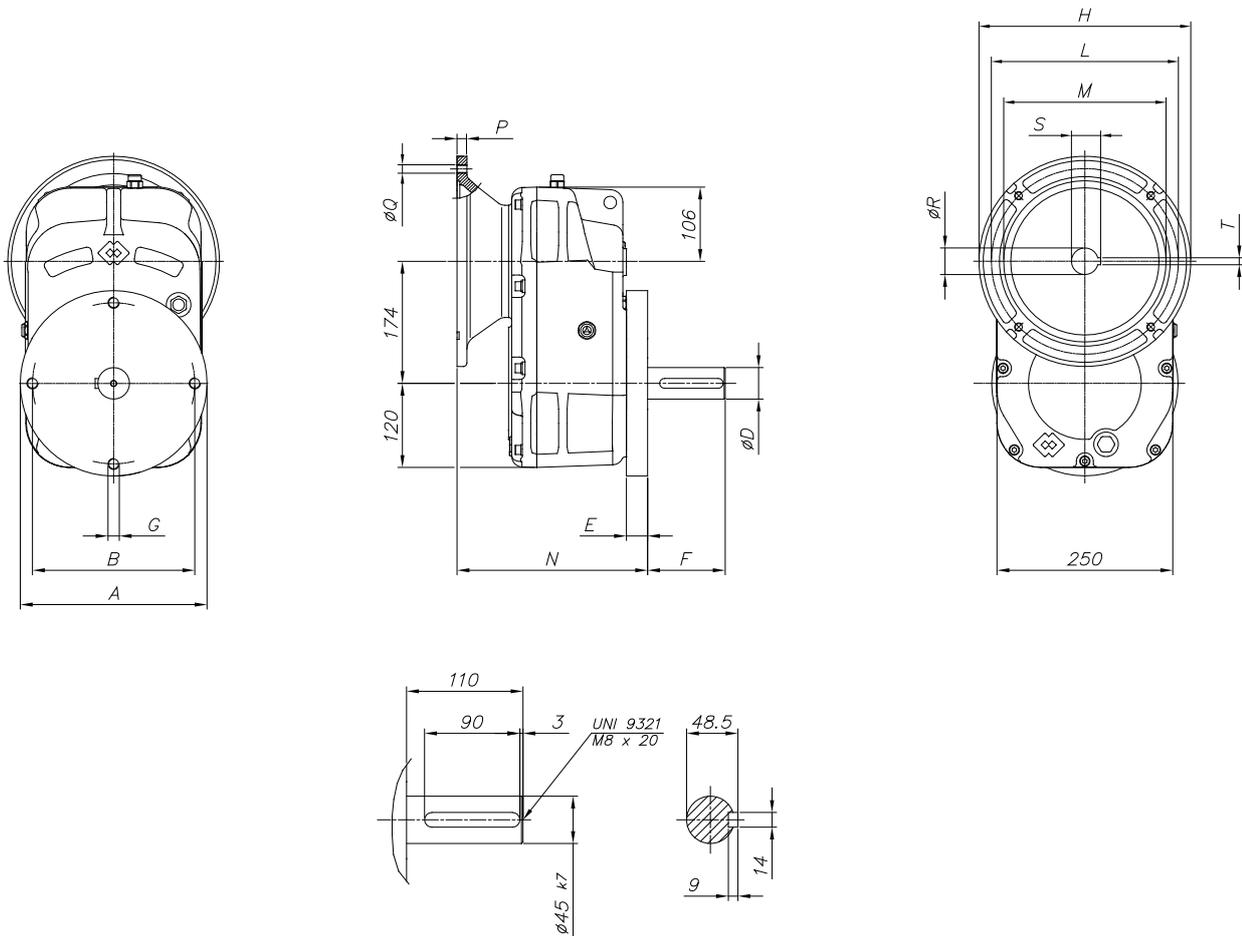
**11.8**
**S45 GEAR REDUCER - ES OUTPUT**


Gear reducer	Output		Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S45</b>	ES	<b>3</b>	219	275	250	210	48 x 44	72.5	85	8	M 10
	ES	<b>4</b>	273	330	305	265	48 x 44	72.5	85	8	M 10
	ES	<b>5</b>	323	405	370	315	48 x 44	72.5	85	8	M 10

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										ES1	ES2	ES3	ES4	ES5
<b>90</b>	200	165	130	275	12	M 10	24	27	8	/	/	68	70	80
<b>100 - 112</b>	250	215	180	285	14	M 12	28	31	8	/	/	70	71	81
<b>132</b>	300	265	230	305	14	M 12	38	41	10	/	/	72	74	83
<b>160</b>	350	300	250	335	15	M 16	42	45	12	/	/	77	78	88
<b>180</b>	350	300	250	335	15	M 16	48	51.5	14	/	/	76	78	88

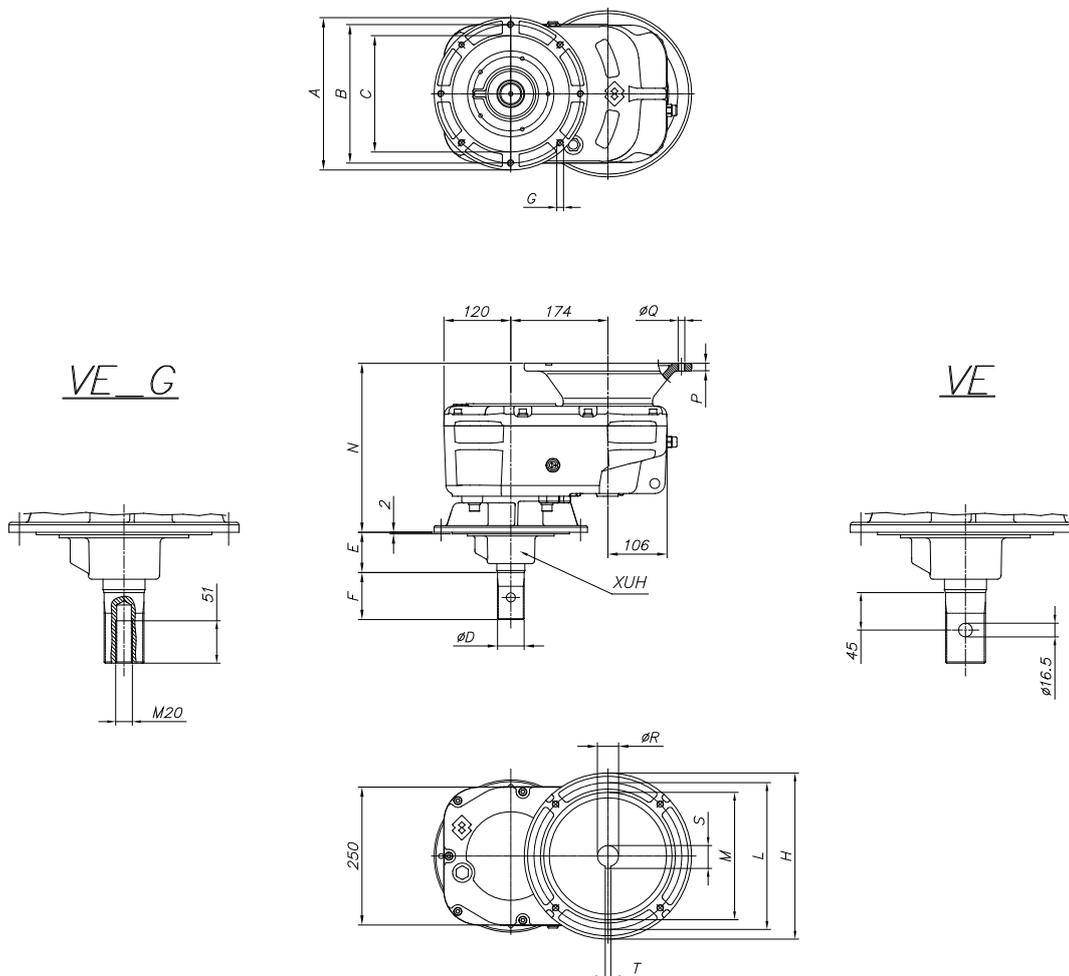
**11.9**
**S45 GEAR REDUCER - K OUTPUT**

## S45



Gear reducer	Output	Ø Screw	Ø A	Ø B	Ø C	Ø D	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S45</b>	<b>K45</b>	/	265	230	/	45	30	110	4	M 16

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												K45
Grand. motore												
<b>90</b>	200	165	130	240	12	M 10	24	27	8	/	/	66
<b>100 - 112</b>	250	215	180	250	14	M 12	28	31	8	/	/	67
<b>132</b>	300	265	230	270	14	M 12	38	41	10	/	/	70
<b>160</b>	350	300	250	300	15	M 16	42	45	12	/	/	74
<b>180</b>	350	300	250	300	15	M 16	48	51.5	14	/	/	74

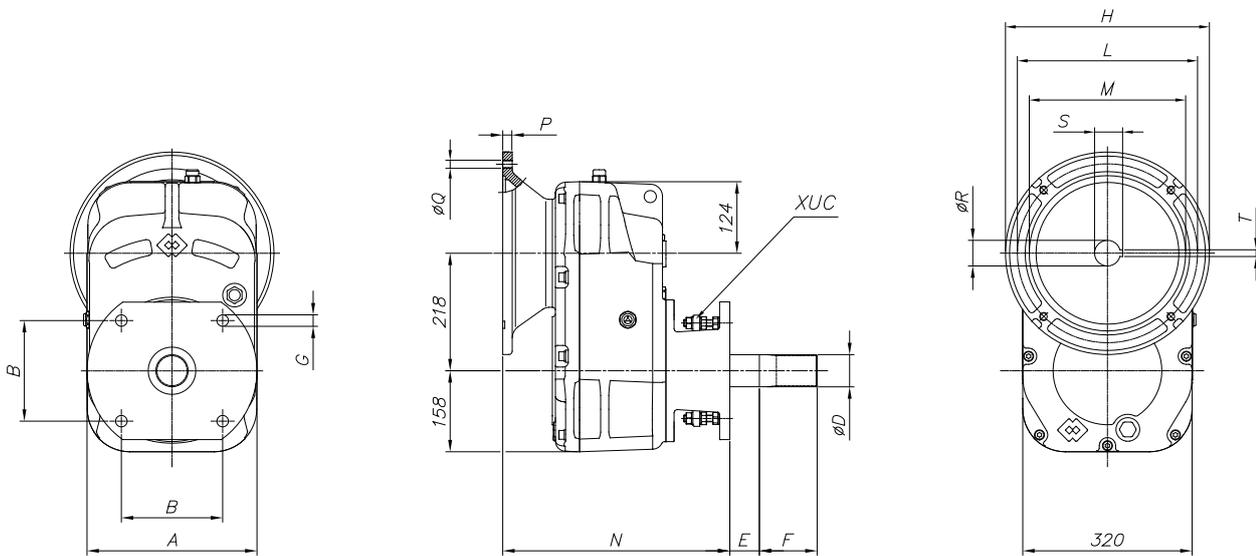
**11.10**
**S45 GEAR REDUCER - VE OUTPUT**
*S45*


Gear reducer	Output		Ø Screw Ø Coclea	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita								N°	Ø
<b>S45</b>	VE -VE_G	3	219	275	250	210	48 x 44	72.5	85	8	M 10
	VE -VE_G	4	273	330	305	265	48 x 44	72.5	85	8	M 10
	VE -VE_G	5	323	405	370	315	48 x 44	72.5	85	8	M 10

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										ES1	ES2	ES3	ES4	ES5
<b>90</b>	200	165	130	275	12	M 10	24	27	8	/	/	68	70	80
<b>100 - 112</b>	250	215	180	285	14	M 12	28	31	8	/	/	70	71	81
<b>132</b>	300	265	230	305	14	M 12	38	41	10	/	/	72	74	83
<b>160</b>	350	300	250	335	15	M 16	42	45	12	/	/	77	78	88
<b>180</b>	350	300	250	335	15	M 16	48	51.5	14	/	/	77	78	88

**12.0**
**S47 GEAR REDUCER**
**12.1**
**S47 GEAR REDUCER - B4 OUTPUT**

S47

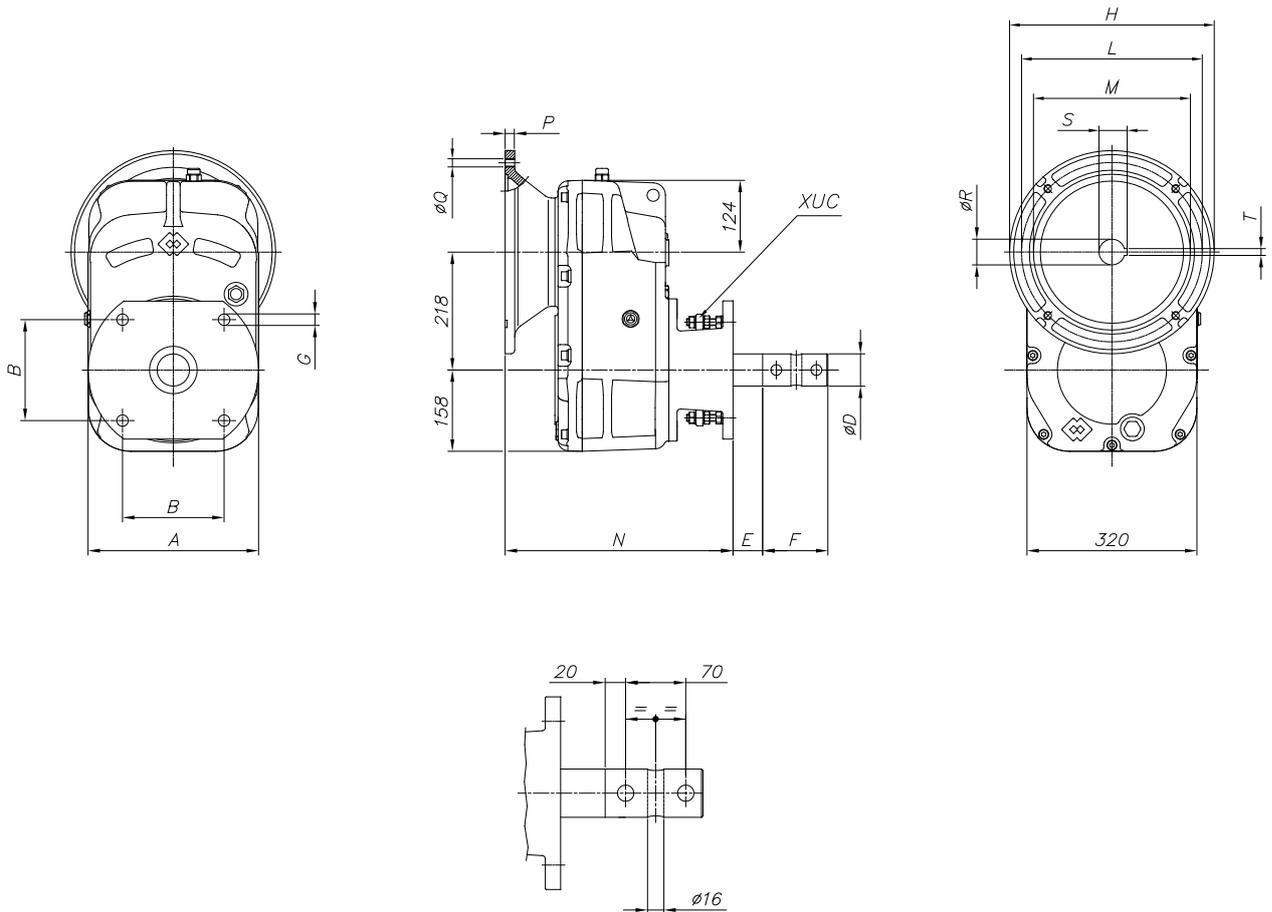


Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S47</b>	<b>B47</b>	/	320	198	/	60 x 55	43.5	110	4	21

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B47
<b>100 - 112</b>	250	215	180	351	12	M 12	28	31	8	/	/	132
<b>132</b>	300	265	230	371	12	M 12	38	41	10	/	/	134
<b>160</b>	350	300	250	401	15	M 16	42	45	12	/	/	138
<b>180</b>	350	300	250	401	15	M 16	48	51.5	14	/	/	138
<b>200</b>	400	350	300	401	22	M 16	55	59	16	/	/	143

**12.2**
**S47 GEAR REDUCER - B5 OUTPUT**

## S47



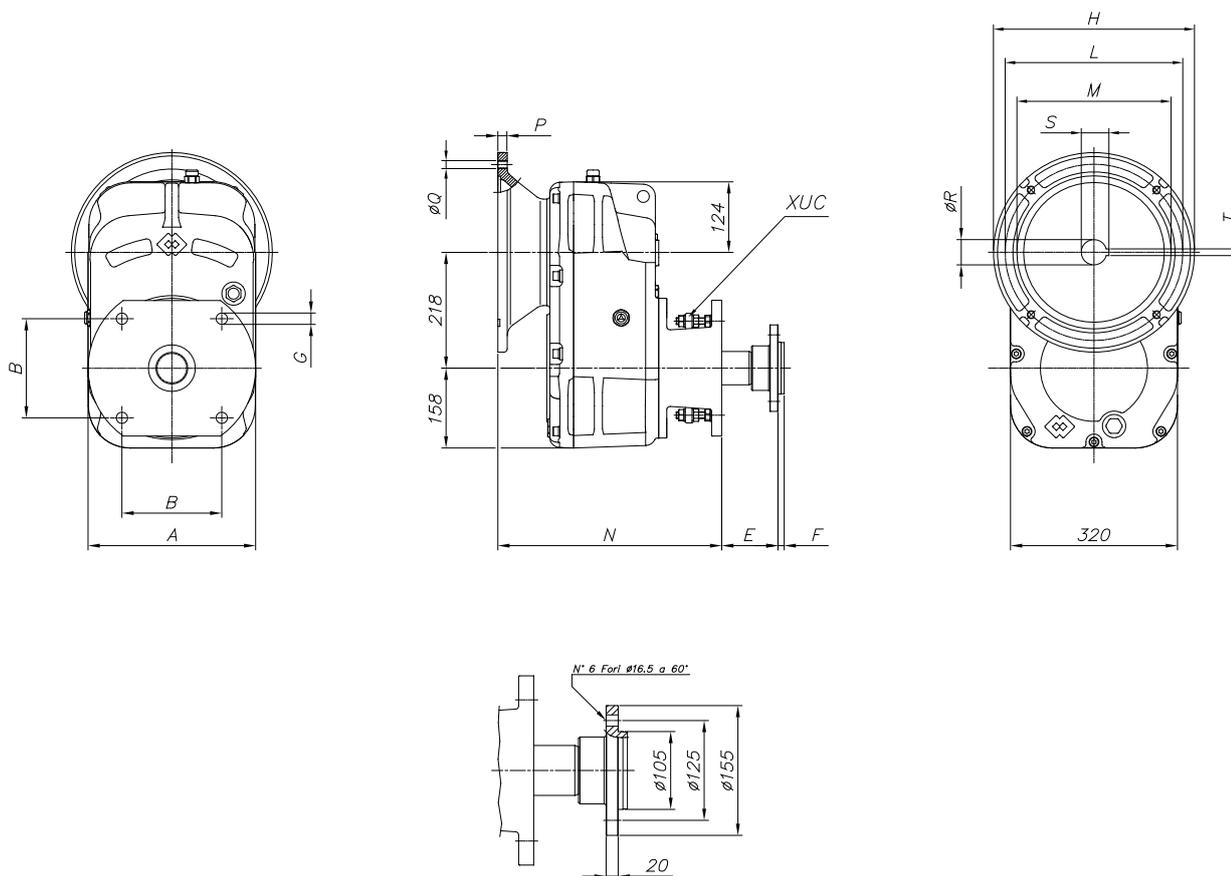
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S47</b>	<b>B57</b>	/	320	198	/	60	43.5	110	4	21

\* = chrome-plated shaft

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B57
<b>100 - 112</b>	250	215	180	351	12	M 12	28	31	8	/	/	132
<b>132</b>	300	265	230	371	12	M 12	38	41	10	/	/	134
<b>160</b>	350	300	250	401	15	M 16	42	45	12	/	/	138
<b>180</b>	350	300	250	401	15	M 16	48	51.5	14	/	/	138
<b>200</b>	400	350	300	401	22	M 16	55	59	16	/	/	143

**12.3**
**S47 GEAR REDUCER - B6 OUTPUT**

## S47



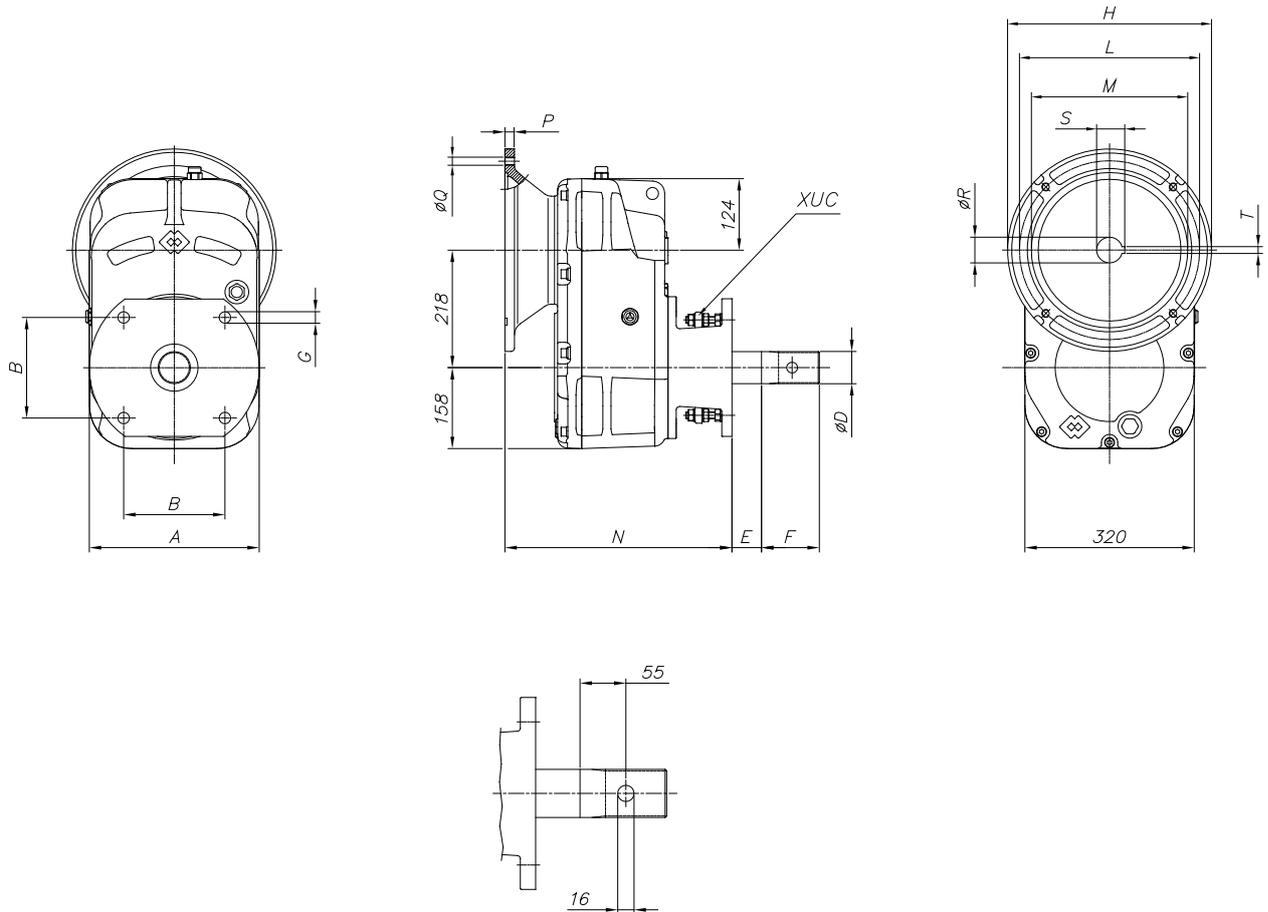
Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S47</b>	<b>B67</b>	/	320	198	/	/	106.5	17.5	4	21

\* = shaft with flanged end

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B67
<b>100 - 112</b>	250	215	180	351	12	M 12	28	31	8	/	/	135
<b>132</b>	300	265	230	371	12	M 12	38	41	10	/	/	138
<b>160</b>	350	300	250	401	15	M 16	42	45	12	/	/	142
<b>180</b>	350	300	250	401	15	M 16	48	51.5	14	/	/	142
<b>200</b>	400	350	300	401	22	M 16	55	59	16	/	/	147

**12.4**
**S47 GEAR REDUCER - B7 OUTPUT**

S47

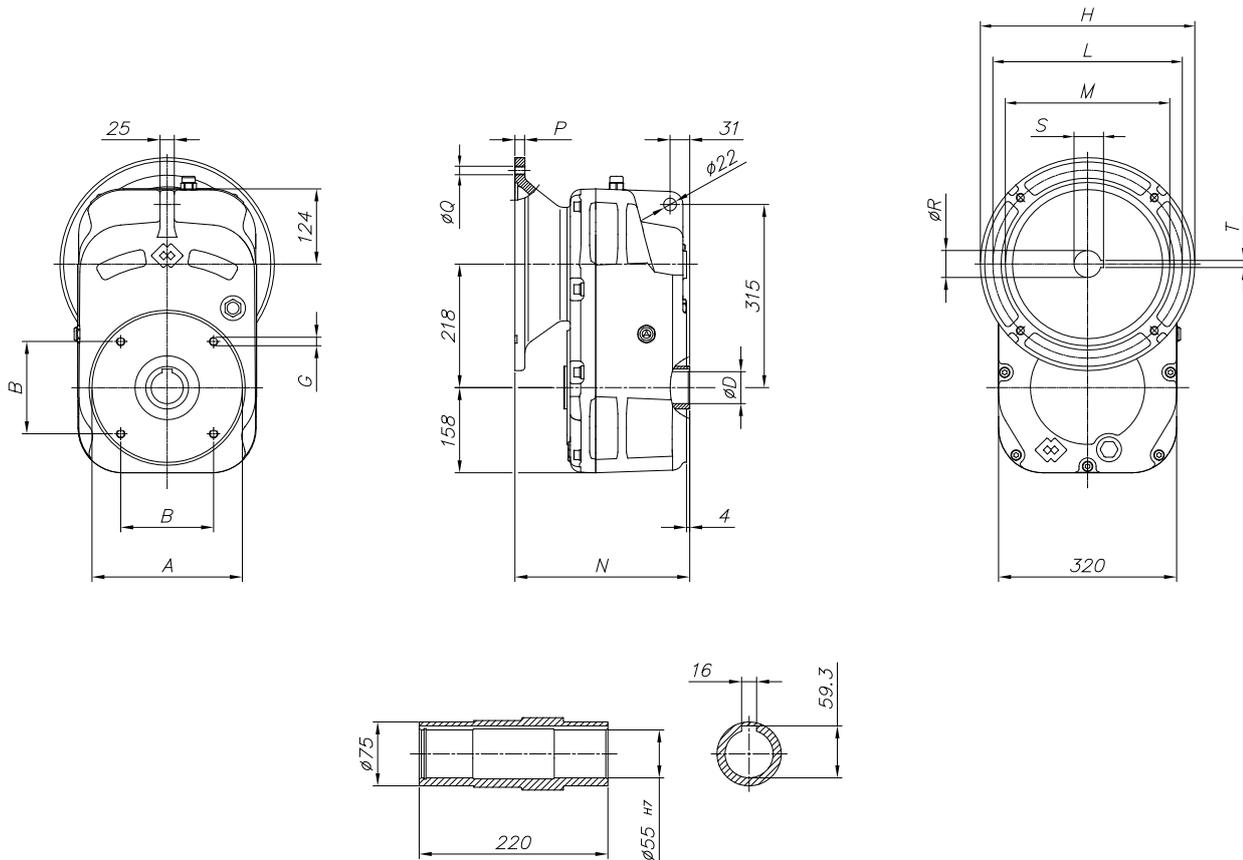


Gear reducer	Output	Ø Screw	Ø A	B	Ø C	Ø D DIN 5482	E	F	Ø G	
									N°	Ø
<b>S47</b>	<b>B77</b>	/	320	198	/	60 x 55	43.5	110	4	21

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												B77
<b>100 - 112</b>	250	215	180	351	12	M 12	28	31	8	/	/	132
<b>132</b>	300	265	230	371	12	M 12	38	41	10	/	/	134
<b>160</b>	350	300	250	401	15	M 16	42	45	12	/	/	138
<b>180</b>	350	300	250	401	15	M 16	48	51.5	14	/	/	138
<b>200</b>	400	350	300	401	22	M 16	55	59	16	/	/	143

**12.5**
**S47 GEAR REDUCER - CV OUTPUT**

## S47



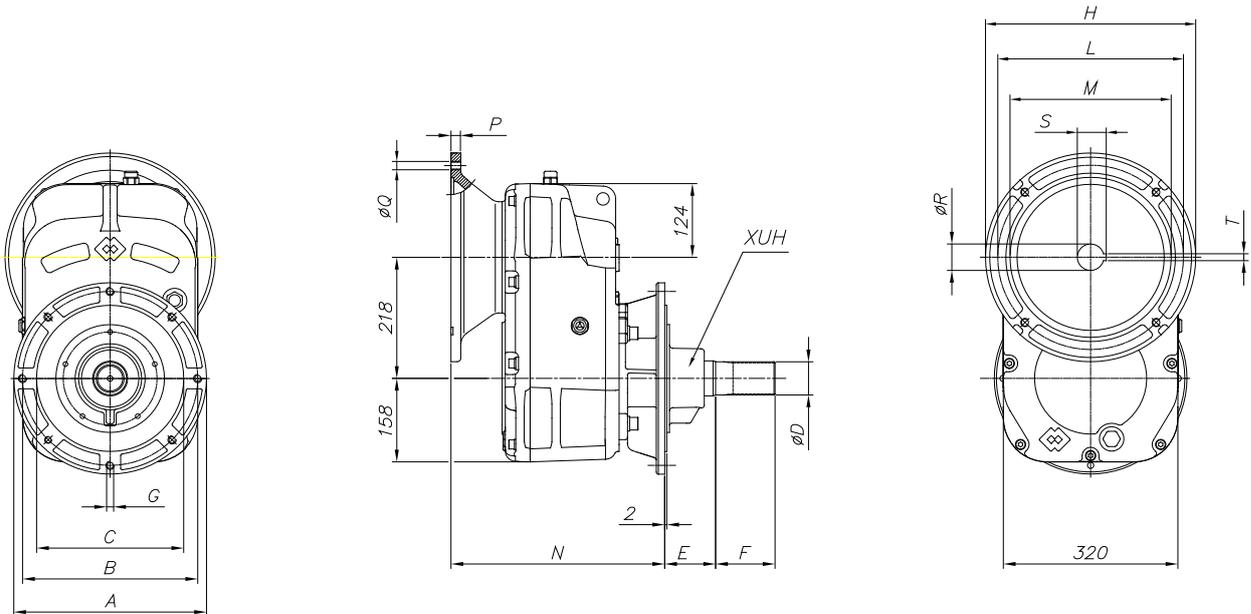
Gear reducer	Output	Ø Screw Ø Coclea	Ø A	B	Ø C	Ø D*	E	F	Ø G	
									N°	Ø
<b>S47</b>	<b>CV7</b>	/	280	171	/	55	/	/	4	M16

\* = hollow shaft

Motor size Grand. motore	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												CV7
<b>100 - 112</b>	250	215	180	261	14	M 12	28	31	8	/	/	106
<b>132</b>	300	265	230	281	14	M 12	38	41	10	/	/	108
<b>160</b>	350	300	250	311	15	M 16	42	45	12	/	/	112
<b>180</b>	350	300	250	311	15	M 16	48	51.5	14	/	/	112
<b>200</b>	400	350	300	311	22	M 16	55	59	16	/	/	117

**12.6**
**S47 GEAR REDUCER - ES OUTPUT**

*S47*

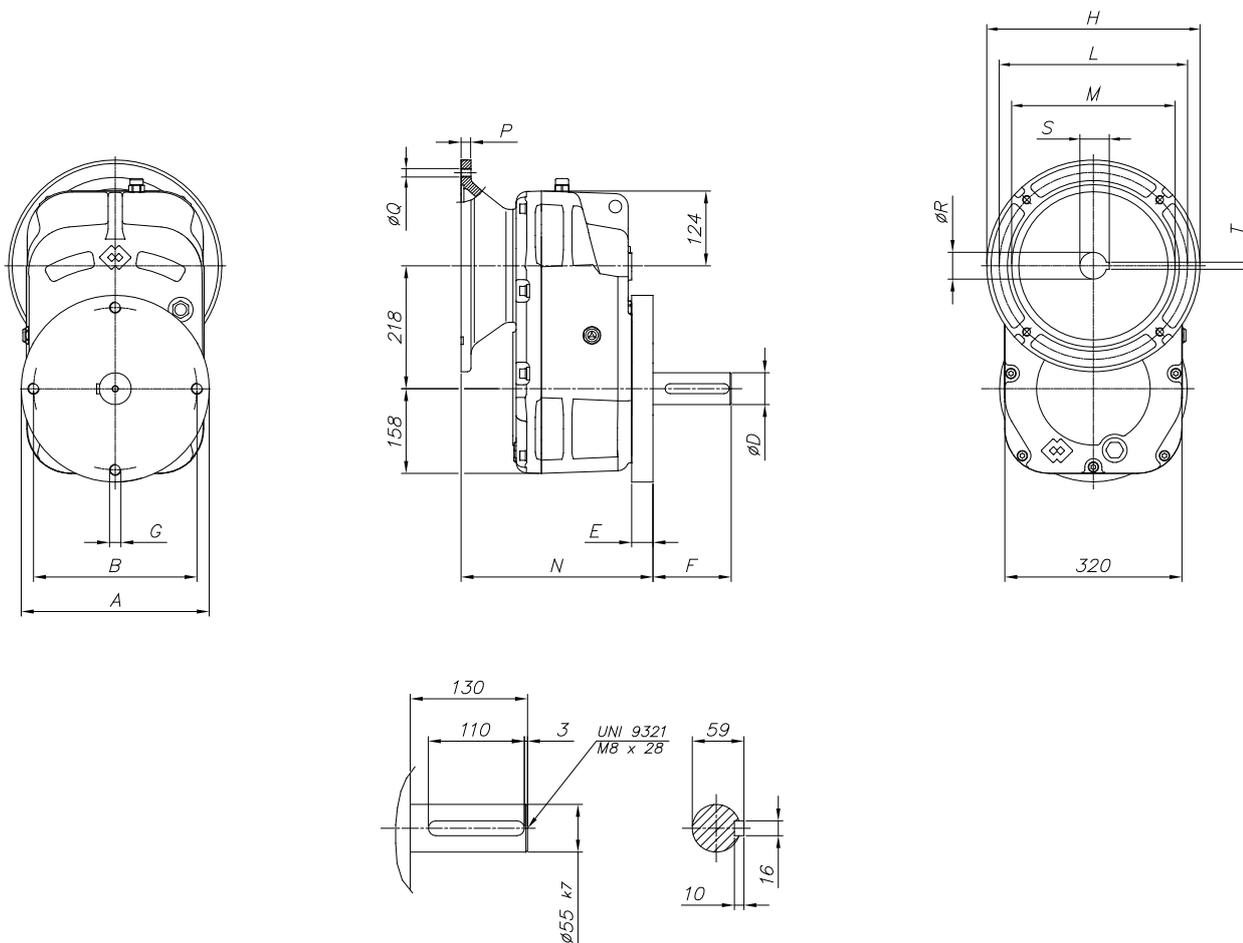


Gear reducer	Output		Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G	
	Testata motrice	Uscita	Ø Coclea							N°	Ø
<b>S47</b>	ES	<b>4</b>	273	330	305	265	60 x 55	72.5	110	8	M 10
	ES	<b>5</b>	323	405	370	315	60 x 55	72.5	110	8	M 10

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										ES1	ES2	ES3	ES4	ES5
<b>100 - 112</b>	250	215	180	323	14	M 12	28	31	8	/	/	/	126	132
<b>132</b>	300	265	230	343	14	M 12	38	41	10	/	/	/	128	134
<b>160</b>	350	300	250	373	15	M 16	42	45	12	/	/	/	133	138
<b>180</b>	350	300	250	373	15	M 16	48	51.5	14	/	/	/	133	138
<b>200</b>	400	350	300	373	22	M 16	55	59	16	/	/	/	138	143

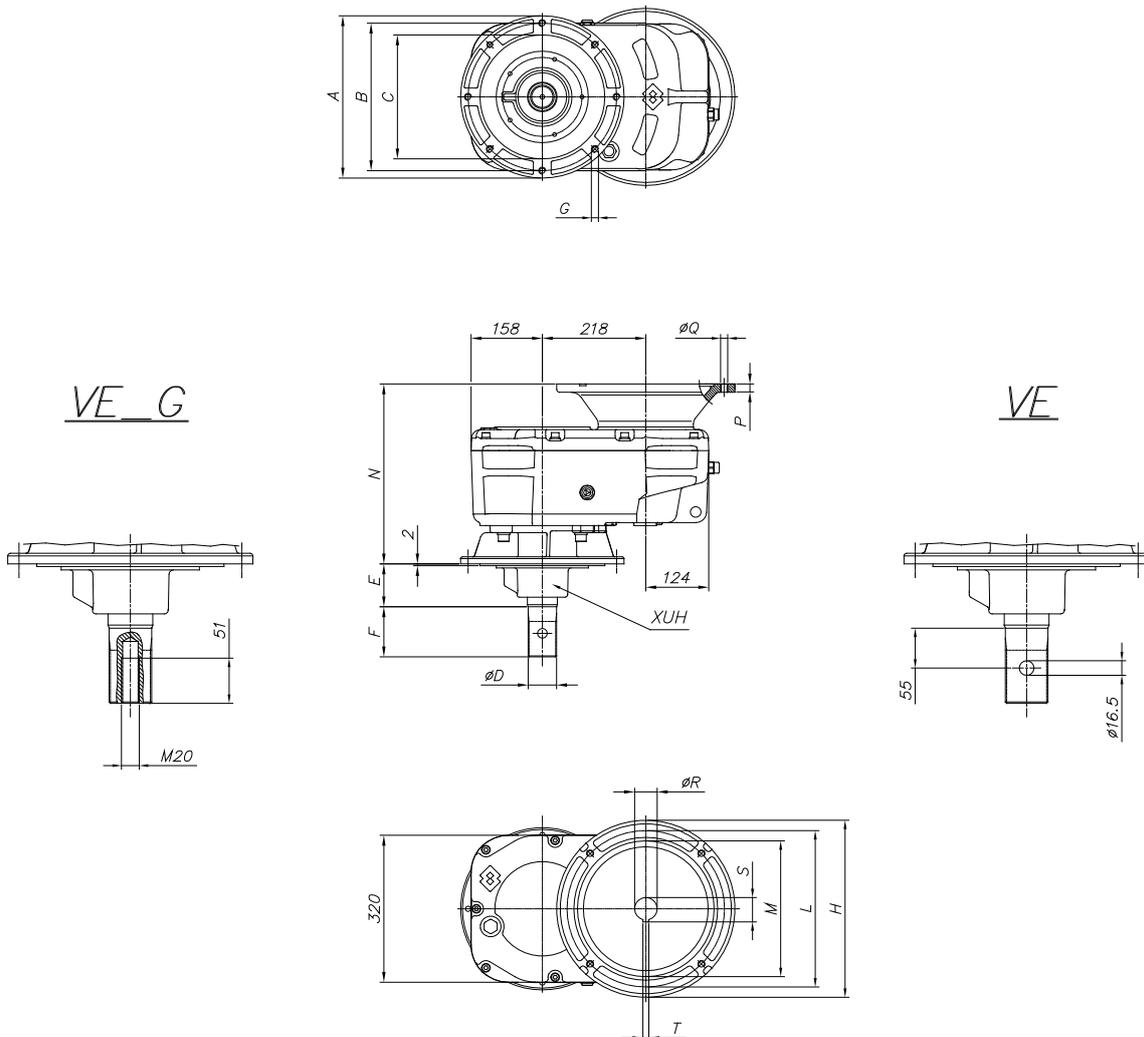
**12.7**
**S47 GEAR REDUCER - K OUTPUT**

## S47



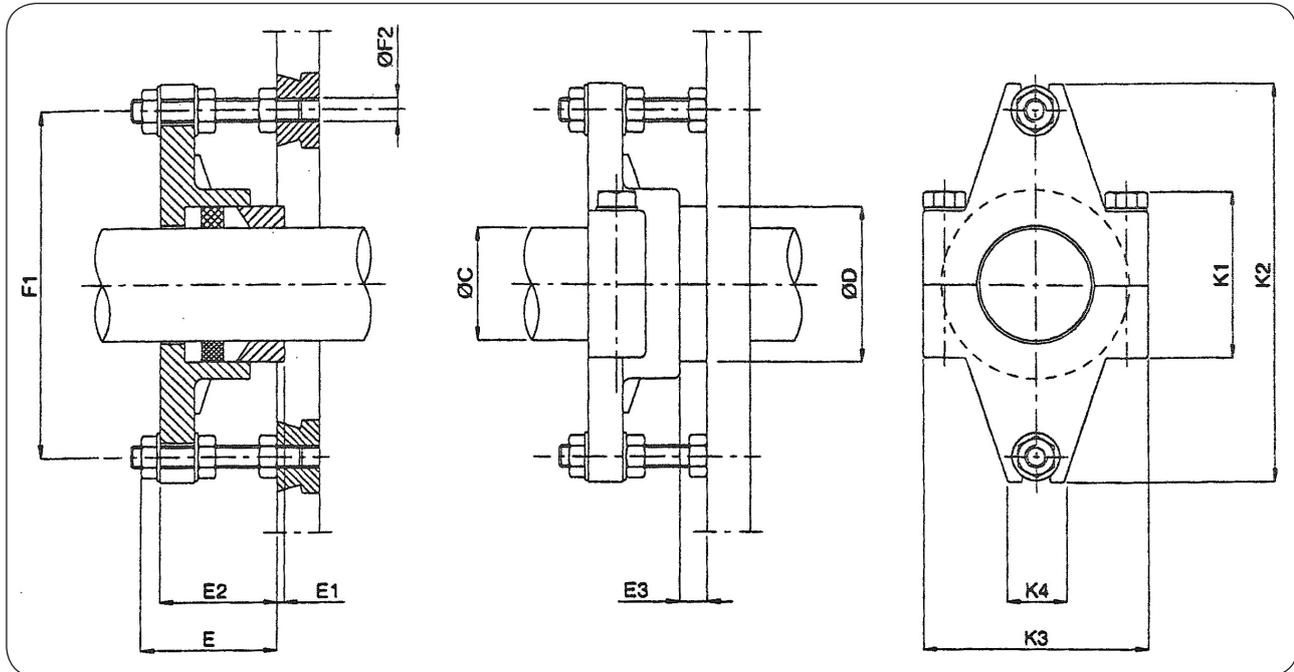
Gear reducer	Output	Ø Screw	Ø A	Ø B	Ø C	Ø D	E	F	Ø G	
									N°	Ø
Testata motrice	Uscita	Ø Coclea								
<b>S47</b>	<b>K47</b>	/	335	290	/	55	30	130	4	M 20

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	U	V	WEIGHT [kg]
												K47
<b>100 - 112</b>	250	215	180	287	14	M 12	28	31	8	/	/	123
<b>132</b>	300	265	230	307	14	M 12	38	41	10	/	/	125
<b>160</b>	350	300	250	337	15	M 16	42	45	12	/	/	129
<b>180</b>	350	300	250	337	15	M 16	48	51.5	14	/	/	129
<b>200</b>	400	350	300	337	22	M 16	55	59	16	/	/	134

**12.8**
**S47 GEAR REDUCER - VE OUTPUT**
S47


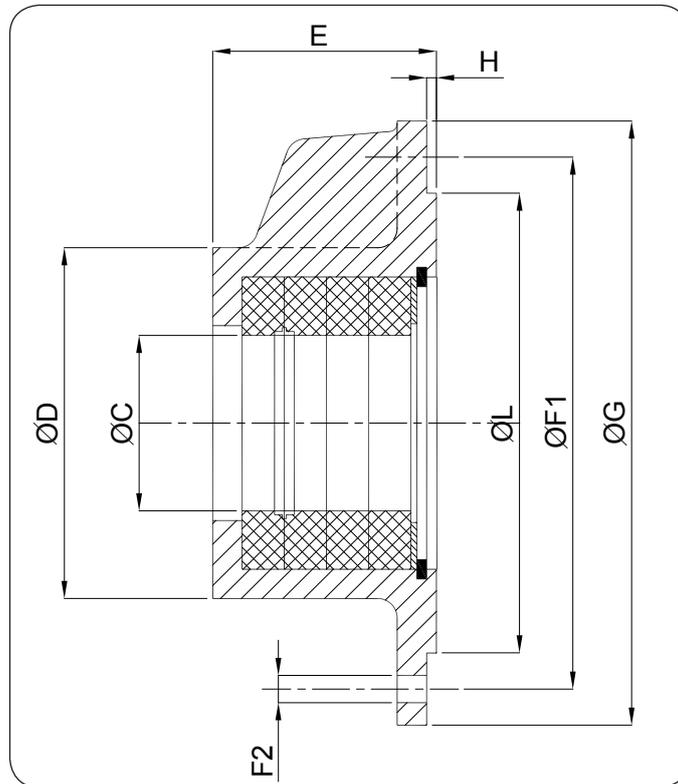
Gear reducer	Output	Ø Screw	Ø A	Ø B	Ø C	Ø D DIN 5482	E	F	Ø G		
									N°	Ø	
Testata motrice	Uscita	Ø Coclea									
<b>S47</b>	<b>VE - VE_G</b>	<b>4</b>	273	330	305	265	60 x 55	72.5	110	8	M 10
	<b>VE - VE_G</b>	<b>5</b>	323	405	370	315	60 x 55	72.5	110	8	M 10

Motor size	Ø H	Ø L	Ø M	N	P	Ø Q	Ø R	S	T	WEIGHT [kg]				
										VE1	VE2	VE3	VE4	VE5
Grand. motore														
<b>100 - 112</b>	250	215	180	323	14	M 12	28	31	8	/	/	/	126	132
<b>132</b>	300	265	230	343	14	M 12	38	41	10	/	/	/	128	134
<b>160</b>	350	300	250	373	15	M 16	42	45	12	/	/	/	133	138
<b>180</b>	350	300	250	373	15	M 16	48	51.5	14	/	/	/	133	138
<b>200</b>	400	350	300	373	22	M 16	55	59	16	/	/	/	138	143

**13.0**
**XUC SEAL**


Code	ØC	Ø D	E	E1	E2	E3	F1	ØF2	K1	K2	K3	K4	kg	Gasket		Per
														No.	dim.	
XUC030_1	030	45	48	2	28	12	99	M8	20	120	70	50	0.5	3	8 x 8	S41
XUC040_1	040	55	48	2	28	12	121.6	M8	20	140	80	60	0.75	3	8 x 8	S41(40) - S43
XUC050_1	050	70	60	3	36	14	141.4	M10	30	164	100	70	1.2	3	10 x 10	S45
XUC060_1	060	80	60	3	36	14	183.4	M10	30	210	120	70	1.8	3	10 x 10	S47

	Type of seal	T. min	T. max
B	Graphite packing gland	-40	+200
C	Teflon-coated packing gland	-40	+200
D	Packing gland made of spun glass	-50	+280

**14.0**
**XUH SEAL**


Code	ØC	Ø D	Ø F1	F2		Ø G	E	H	Ø L	kg	For
				Ø	n°						
XUH030_4	30	58	68	5	4	76	37	-	-	0.3	S41
XUH040_4	40	90	134	9	5	155	57	2.5	118	0.5	S41(40) - S43
XUH050_4	50	90	134	9	5	155	57	2.5	118	0.8	S45
XUH060_1	60	105	134	9	5	155	59	2	118	0.8	S47

	Type of seal	T. min	T. max
2	For water	-40	+120
3	For medium temp.	-50	+200
5	With grease chamber	-40	+120
6	Air-purged	-40	+120
7	Labyrinth	-40	+200
H	For high temperature filler	-50	+200
J	Standard	-40	+120
L	For cold carbon	-40	+120
M	For hot carbon	-50	+200



WAM®

# "S4" GEAR REDUCER

05.16

1

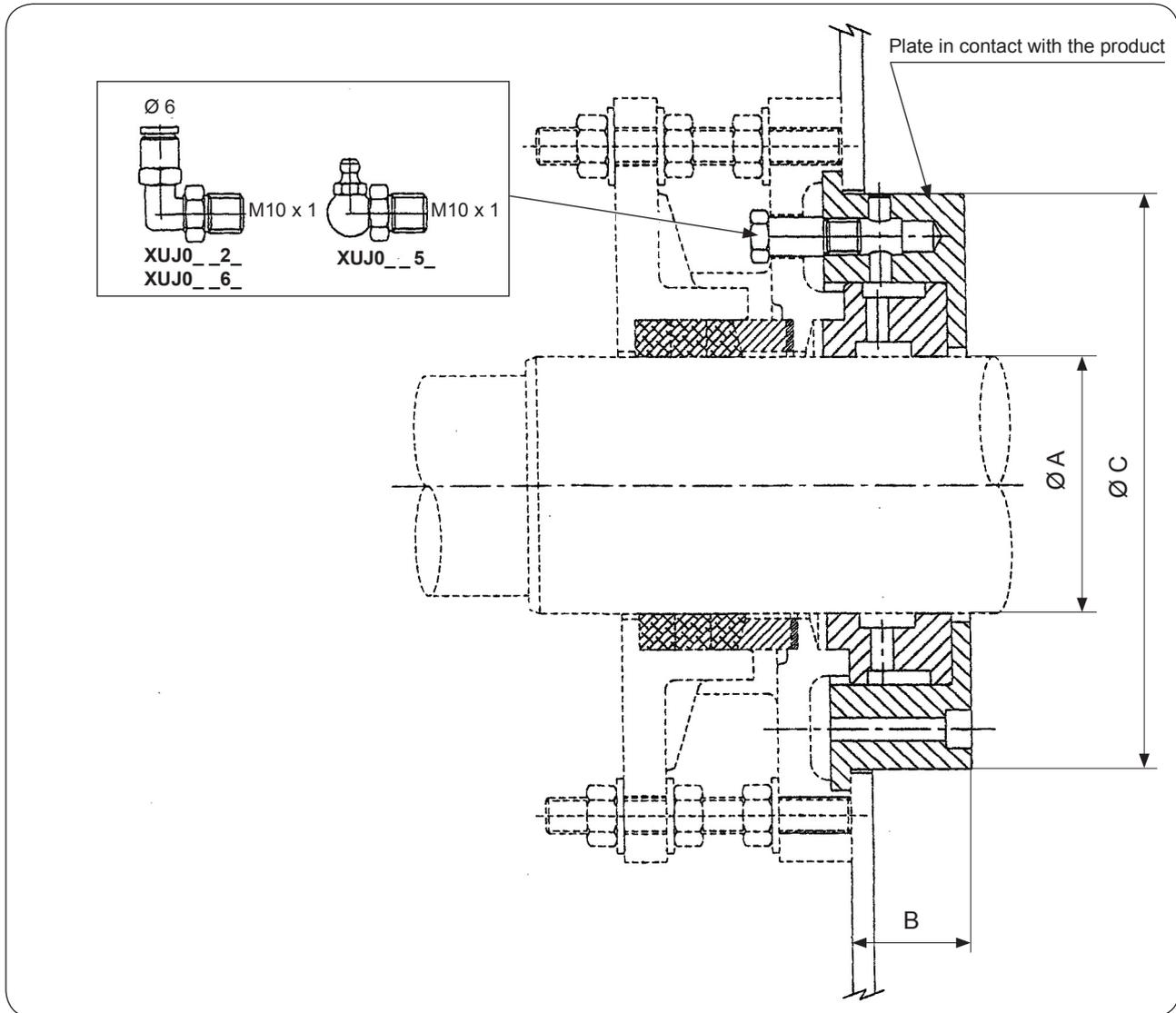
15.0

XUJ ADDITIONAL INTERNAL SEAL

CON.095.--.T.EN Issue: A4

15.0

## XUJ ADDITIONAL INTERNAL SEAL



Code	ØA	B	ØC	Suitable for	kg
XUJ030__	030	20	99	S41	1
XUJ040__	040	31	110	S41(40) - S43	1.4
XUJ050__	050	31	130	S45	2
XUJ060__	060	31	155	S47	2.8

X	U	J				
---	---	---	--	--	--	--

Ø A (mm)

Type of seal:

2 - Water

5 - Grease

6 - Air (0.2 bar)

Material of plate in contact with the product:

1 - Carbon steel

2 - SS 304L

3 - SS 316L

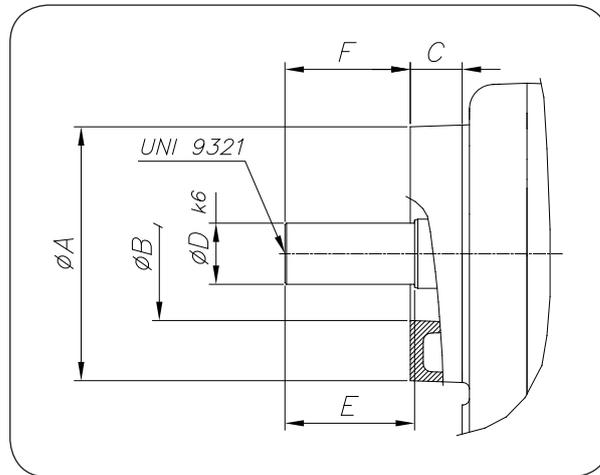
**16.0**
**REAL GEAR RATIO**

$i_n$	S41	S43	S45	S47
4.5	4.412	4.571	4.692	4.400
5	5.029	5.053	4.942	5.154
6	6.317	6.185	6.429	6.387
7	7.102	7.226	7.162	7.131
8	8.011	8.039	8.000	7.985
10	9.893	10.057	10.095	10.139
12.5	12.447	12.844	12.190	12.320
16	16.113	15.746	16.134	16.500
20	20.443	19.810	20.571	19.486
25	25.092	25.905	27.013	26.000
31.5	32.963	31.392	29.986	30.839
40	40.889	38.760	40.200	42.000
31.5 (3s)	/	32.330	32.331	31.068
40 (3s)	/	39.637	42.791	41.609
50	/	49.865	54.559	49.138
63	/	66.440	59.688	60.178
80	/	79.020	79.528	77.768

= Not in production

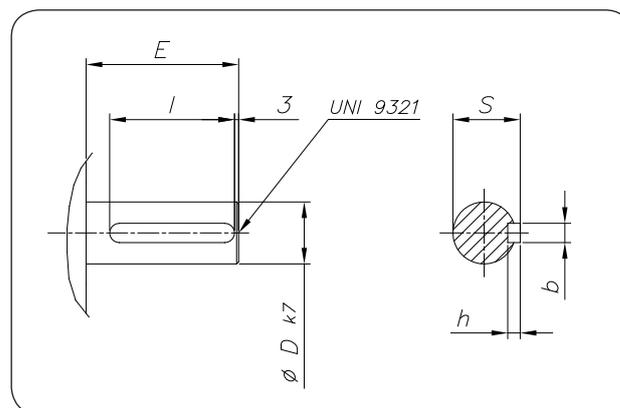
**17.0**
**"C" TYPE INPUT SHAFT**
**18.0**
**"K" TYPE OUTPUT SHAFT**

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**17.0**
**"C" TYPE INPUT SHAFT**


Type	Input	Ø D	E	F	Ø A	Ø B	C	UNI 9321
S41	C41	24 <sub>K6</sub>	50	47	94	50	22	M8 x 19
S43	C43	28 <sub>K6</sub>	60	57	120	58	22	M10 x 22
S45	C45	38 <sub>K6</sub>	80	77	160	83	32	M12 x 28
S47	C47	42 <sub>K6</sub>	110	107	180	88	32	M16 x 36

- The pulleys are keyed by means of taper bushes.

**18.0**
**"K" TYPE OUTPUT SHAFT**


Type	Output	Ø D	E	b x h x l	S	UNI 9321
S41	K41	25 <sub>K7</sub>	65	8 x 7 x 50	28.3	M8 x 20
S43	K43	35 <sub>K7</sub>	86	10 x 8 x 70	38.3	M8 x 20
S45	K45	45 <sub>K7</sub>	110	14 x 9 x 90	48.8	M8 x 20
S47	K47	55 <sub>K7</sub>	130	16 x 10 x 110	59.3	M12 x 28

Type	Output	belts	Input Size																		
			071		080		090		100		112			132			160		180		200
			0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	9.2	11	15	18.5	22	30		
[ kg ]																					
S41	A31	24	24	26	26	28															
	B41	27	27	29	29	31															
	B51	27	27	29	29	31															
	B61	28	28	30	30	32															
	B71	27	27	29	29	31															
	B81	27	27	29	29	31															
	CV1	20	21	22	22	24															
	ES0	26	27	28	28	30															
	ES1-2	29	30	31	31	33															
	K41	23	23	25	25	27															
	VE0	26	27	28	28	30															
VE1-2	29	30	31	31	33																
S43	A33	36		38	38	39				42											
	B43	39		41	41	43				45											
	B53	39		41	41	43				45											
	B63	40		42	42	43.5				46											
	B73	39		41	41	43				45											
	B83	39		41	41	43				45											
	CV3	30		32	32	34				36											
	ES1-2	40		42	42	43				46											
	ES3	41		43	43	45				47											
	ES4	43		45	45	46				48											
	ES5	53		54	54	56				58											
	K43	36		37	37	39				41											
	VE1-2	40		42	42	43				46											
	VE3	41		43	43	45				47											
	VE4	43		45	45	46				48											
	VE5	53		54	54	56				58											
VG3	41		43	43	45				47												
VG4	43		45	45	46				48												
VG5	53		54	54	56				58												
S45	B45	69				70		71		74		78		78							
	B55	69				70		71		74		78		78							
	B65	70				71		72		75		79		79							
	B75	69				70		71		74		78		78							
	B85	69				70		71		74		78		78							
	CV5	54				54		55		58		63		62							
	ES3	68				68		70		72		77		77							
	ES4	69				70		71		74		78		78							
	ES5	79				80		81		83		88		88							
	K45	66				66		67		70		74		74							
	VE3	68				68		70		72		77		77							
	VE4	69				70		71		74		78		78							
	VE5	79				80		81		83		88		88							
VG3	68				68		70		72		77		77								
VG4	69				70		71		74		78		78								
VG5	79				80		81		83		88		88								
S47	B47	131								132		134		138		138		143			
	B57	131								132		134		138		138		143			
	B67	135								135		138		142		142		147			
	B77	131								132		134		138		138		143			
	CV7	105								106		108		112		112		117			
	ES4	126								126		128		133		133		138			
	ES5	131								132		134		138		138		143			
	K47	122								123		125		129		129		134			
	VE4	126								126		128		133		133		138			
	VE5	131								132		134		138		138		143			
	VG4	126								126		128		133		133		138			
VG5	131								132		134		138		138		143				

NOTE: The data given in this catalogue are not binding and may undergo changes at any time.

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