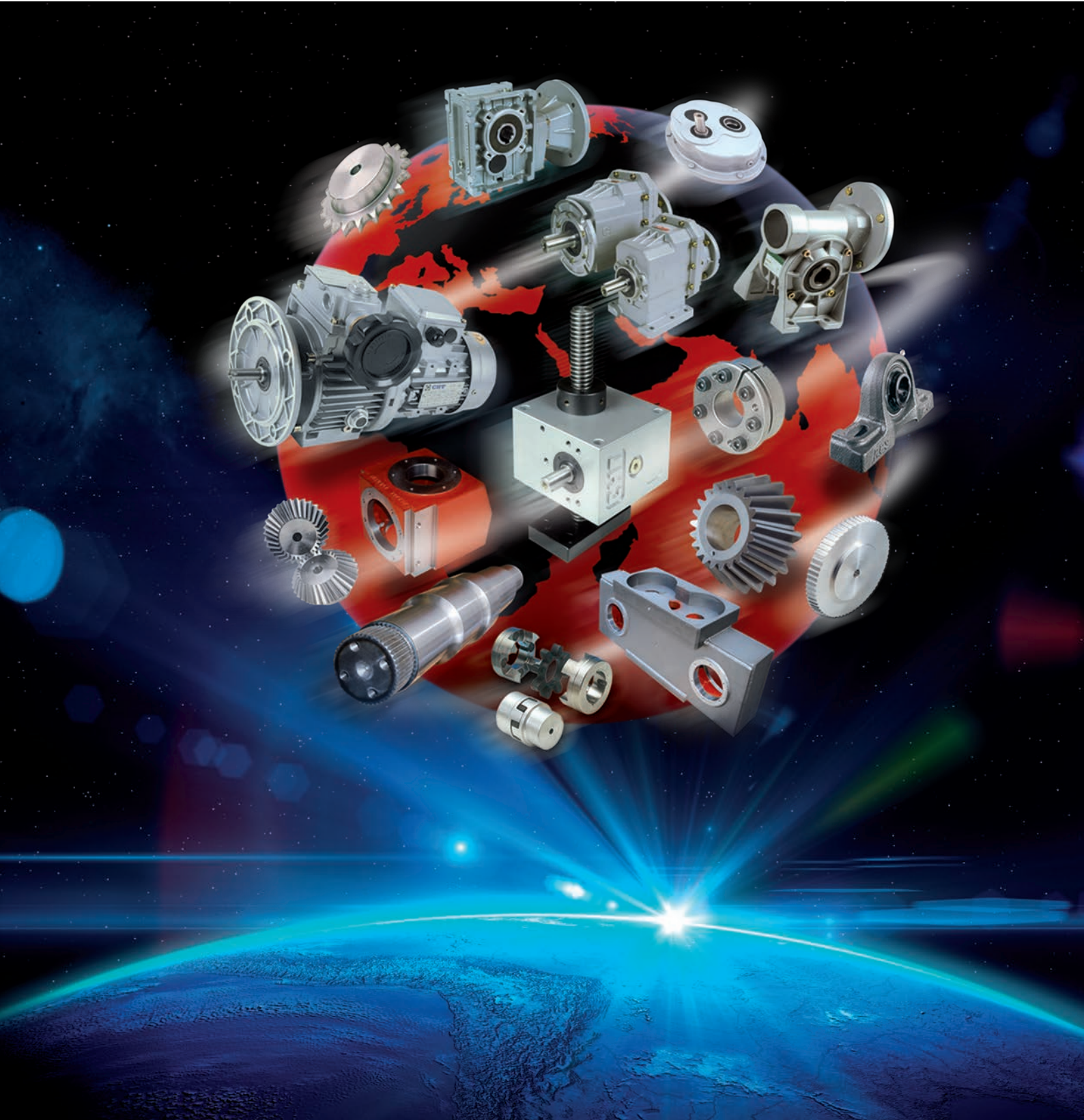


MECHANICAL WORM SCREW JACKS





The Chiaravalli group is the technological partner that you should turn to knowing that reliability and respect are values commonly shared.

**YOUR IDEAS
ALWAYS
ON
THE MOVE**

A semi-transparent globe is positioned behind the word "ON" in the slogan. The globe shows the continents of Africa and Europe, with a bright light source from the left creating a lens flare effect across the center of the globe.

INDUSTRIOUSNESS

TRADITION

SKILLS

EXPERTISE



THE CUSTOMER: ALWAYS AT THE CENTRE OF OUR ATTENTION.



The Chiaravalli group is a dynamic, modern company oriented in fulfilling customers needs and desires.

Human progress has always been based on mechanical application and discovery that stem from human intuition and genius.

Mechanics: the genetic heritage of Chiaravalli Group



The Chiaravalli Group, always aware of the needs of the market has found it necessary to provide its long-standing customers with complete, steady up-dated information about its products 24 hours a day 365 days in a year.

This attention comes from B2B, which is the direct consequence of our interest and dedication to our customers. It is an advanced system of research, purchasing and delivery of all Chiaravalli products. B2B Chiaravalli Group becomes a virtual extension of the customer's warehouse.



RESEARCH

our Group has always been engaged in constant research of brand new products, to be entered into our sales program, together with awareness of the potential benefits of manufacturing long-standing products using new modern materials.



DESIGN

our technical office designs with a CAD System the new products that will contribute to the expansion of the product range offered by Chiaravalli Group SpA, being able to rely on the expertise of highly experienced co-workers.



PROTOTYPING

we have at our disposal a wide range of CNC Machines, and make use of the most advanced CAM techniques, which enable us to produce Prototypes both for our range of products, and also for a large customer base, who rely on our Group with confidence.



PRODUCTION

taking advantage of our modern and large CNC tools fleet, we produce by means of CAD-CAM technology, high precision mechanical components.



QUALITY CERTIFICATION

all our production is controlled step by step during its production cycle. Various measuring rooms, equipped with modern three-dimensional measuring machines, allow a full certification of our products.



LOGISTICS

our logistics, with its excellent organization and interactive database, allows us to make daily shipments in over 52 countries.



SHIPPING SERVICES

we operate in over 52 countries with a large number of national and international forwarders. Our constantly updated information service allows us to track the transport of products to ensure a timely and accurate delivery.





ELECTRICAL

MOTORS AND GEARBOXES

A large range of motors and gearboxes developed by Chiaravalli Group SpA and managed by our Logistics in Cantalupa.

We are able to supply and send any item to catalogue, in over 52 countries, with a minimum lead-time from order receipt.





WORM SCREW

JACKS

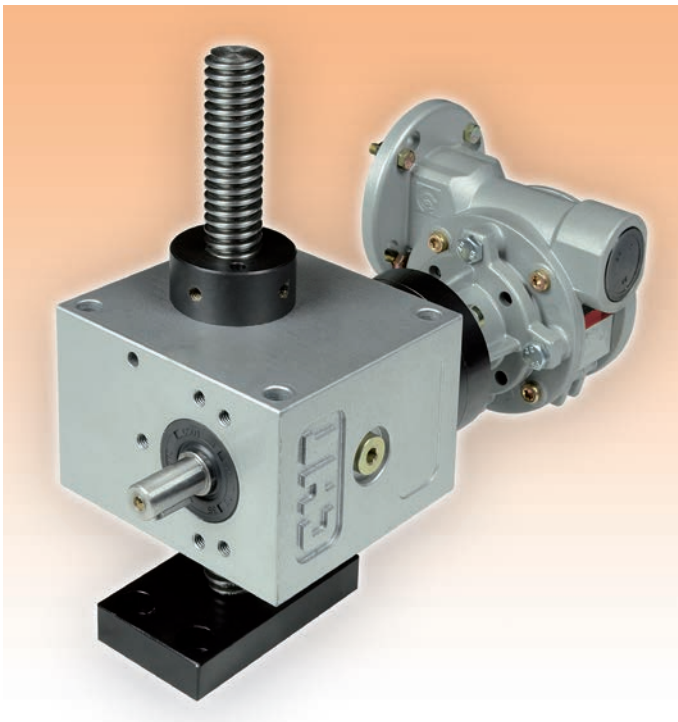
The new line of Worm Screw Jacks named CHT (Chiaravalli High Tech) integrates and completes our range of Mechanical Transmission products.

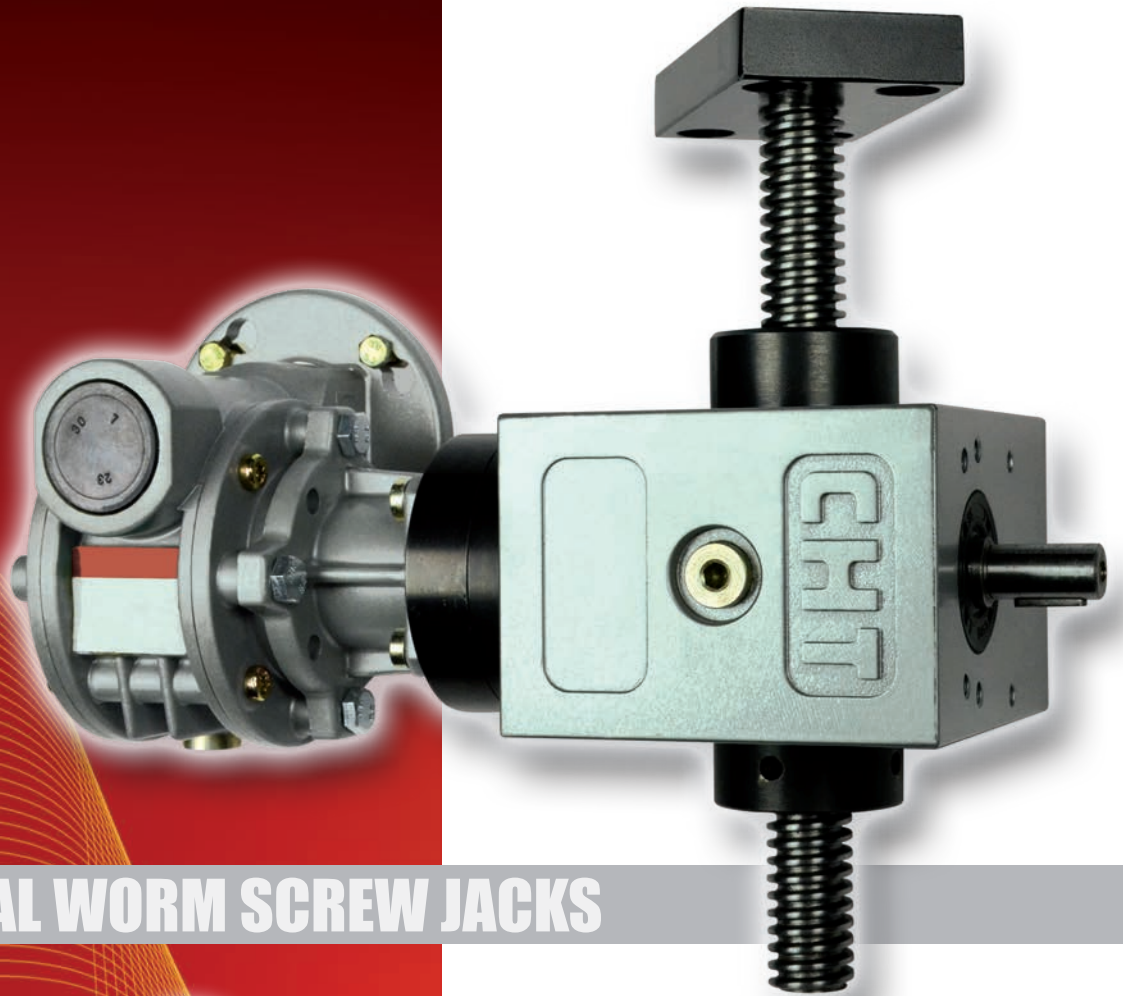
This new line of products is manufactured using high quality materials, manufactured with absolute precision, making use of the modern machinery fleet of the companies belonging to Chiaravalli Group SpA.

The basic elements that make up the final product "Screw Jack" are made in large series, rigorously checked and put in stock. Special virtual software developed

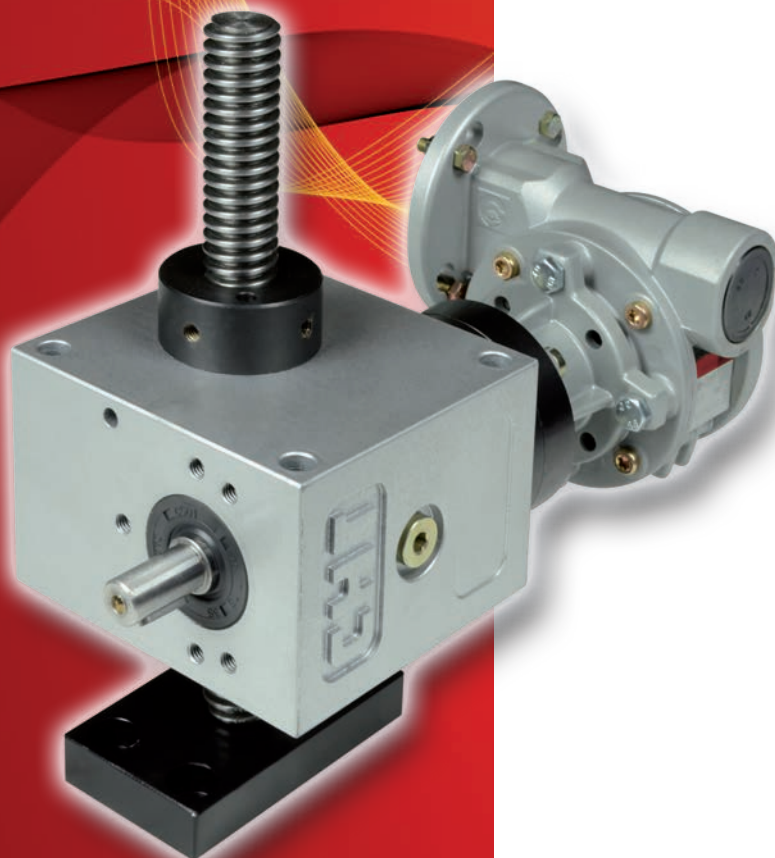
by Chiaravalli Group SpA enables our customers to first view the various elements of the required screw jack and then, in the second phase, to order it with absolute precision and confidence.

Chiaravalli Group SpA is engaged to ensure the delivery of this product in very short time, with quality and precision.





MECHANICAL WORM SCREW JACKS





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The new series of mechanical screw jack CHIARAVALLI, named CHS, is a product, the innovation of it is due to modularity which allows to supply a customized product in reasonable times.

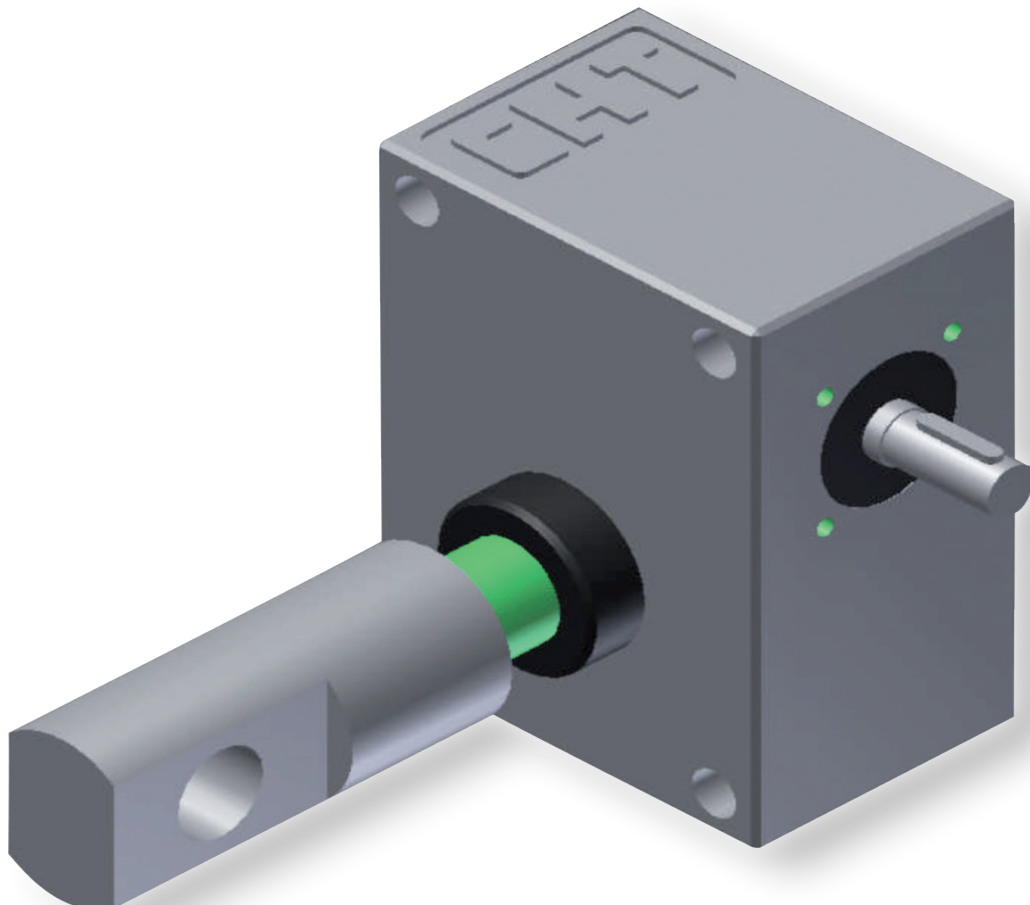
The coupling with electric motors (either on normal, motor brake or explosion-proof motors) is guaranteed thanks to the predisposition to IEC B5 and B14 flanges.

This type of worm gear screw jack is used in many fields where it is necessary to lift considerable weights, such as automated production lines for sheet metal machinery, packaging, printing, textiles, plastics, food, renewable energy and more.

PRODUCT FEATURES

- modularity
- customization
- high strength cast iron case
- hardened and ground worm gear
- long life lubrication

CHS Series screw jacks are manufactured in 5 sizes, customizable with all the accessories included in the catalogue, according to customers' requirements.





SCREW JACK DESIGNATION

CHS- - -C -R - - - -PAM B -- , Kw- P- -SP

SIZE
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8

TRANSLATING SCREW **TS**
ROTATING SCREW **RS**

STROKE mm

RATIO
CHS 1 RATIO 5 - 20
CHS 2 - 3 - 4 - 5 - 6 - 7 - 8 RATIO 5 - 10 - 30

SCREW ENDS TS - TF - TL - TP

INPUT SHAFT CONFIGURATION
DX - Right SX - Left DE - Double input

INPUT MOTOR SHAFT
M3 - Right - M4 - Left
M1 - Right shaft DE
M2 - Left shaft DE

OPTIONALS
PR - PE - AR - AS - FC - PO - AM - CU - RG - CS - FCO - VRS - LO - CF - OX

MOTOR FLANGE SIZE
56 - 63 - 71 - 80 - 90 - 100 - 112

MOTOR FLANGE TYPE (B5 O B14)

MOTOR POWER Kw (IF REQUIRED WITH MOUNTED MOTOR)

POLES MOTOR NUMBER: 2 - 4 - 6 (IF REQUIRED WITH MOUNTED MOTOR)

MOTOR TYPE: T-3PHASES, F-SELF BRAKING MOTOR (IF REQUIRED WITH MOUNTED MOTOR)

SP SPECIAL FEATURES - DESCRIPTION



The worm gear based mechanical screw jack is one of the most economical and efficient mechanism for lifting and lowering loads, for push-pull applications. It can be used as a single unit or in multiple combinations, with manual or motorized drive. It is possible to link two or more screw jacks by shafts, couplings and right angle gear boxes, so that all the operations are perfectly synchronized. CHIARAVALLI worm screw jacks are built for nominal loads from 0,5 to 10 tons.

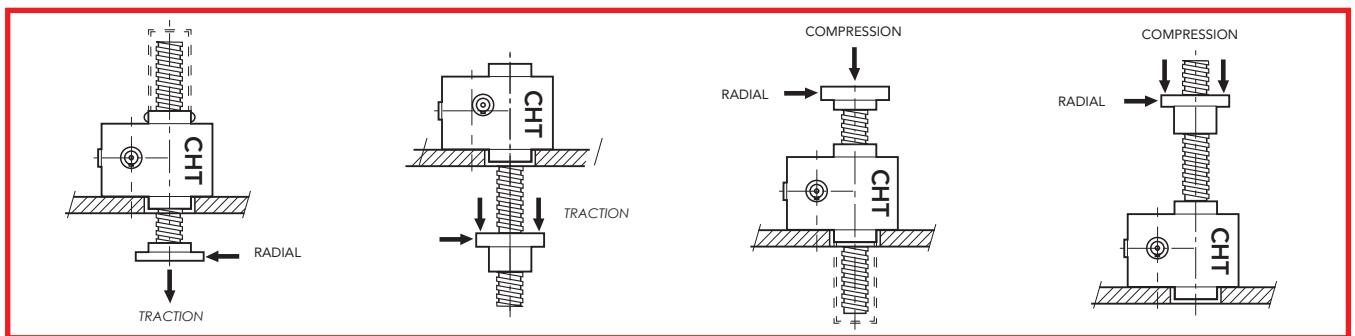
ANALYSIS AND COMPOSITION OF LOAD

For the correct selection of the screw jack and, consequently, for its proper functioning, it is necessary to identify the actual load and the nature of the load, as better specified here below:

- STATIC loads
- DYNAMIC loads

These in turn can be:

- TRACTION loads
- COMPRESSION loads
- RADIAL loads
- COMPOUND loads



DYNAMIC LOADS

TRACTION

The maximum traction load which can be applied to the screw jack, is determined by several factors: heat capacity, temperature, service, impact or radial loads.

Make use of tables on pages. 18 - 48 and page 17

COMPRESSION

The maximum load used in compression is influenced by several factors: length of the threaded shaft, thermal capacity, shock and radial loads, temperature and type of service. Make use of tables on pages 18 - 48

In addition, the load causes a deflection of the same, thus requiring a further examination to be carried out using the table on page 17, according to the Eulero's formula, linked to the type of external guides, so as to determine the maximum load.

RADIAL

In dynamic applications radial loads ARE NOT ALLOWED.

OVERTURNING MOMENT

As well as for radial loads, overturning moment are not allowed: overcome the problem by using appropriate sized external guides, that will avoid to subject the screw jack to such loads.



STATIC LOADS

TRACTION

The maximum load in tension applied to the Screw Jack is the max one foreseen by the tables of use on pages 18 - 48

COMPRESSION

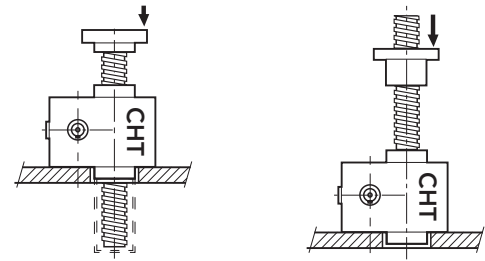
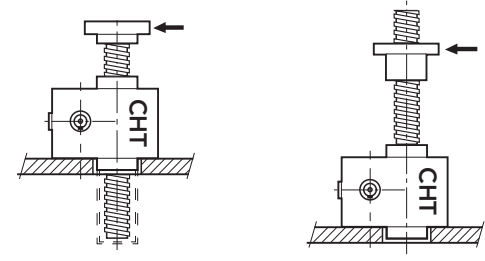
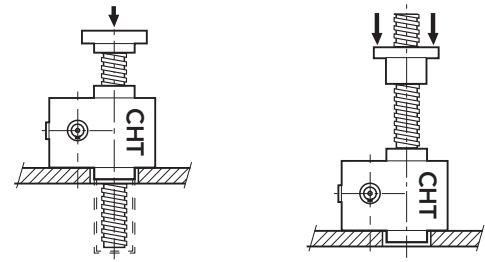
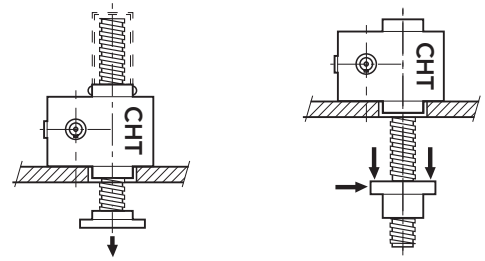
The maximum load used in compression is influenced by the length of the threaded shaft, and can be checked in the chart on page 17, according to Eulero's formula, linked in to the type of external guides.

RADIAL

These special loads cause a lateral shift of the shaft, provoking a dangerous deflection which would reduce the capacity of the screw jack. These therefore must be avoided.

OVERTURNINGS LOADS

As well as for radial loads, overturning moment are not allowed: overcome the problem by using appropriate sized external guides, that will avoid

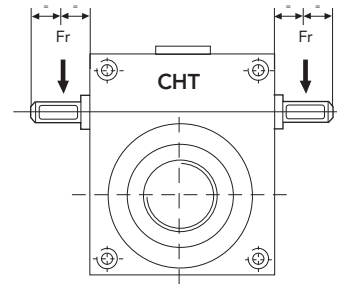




WORM SCREW LOAD (INPUT SHAFT)

MAXIMUM RADIAL LOAD (Fr)

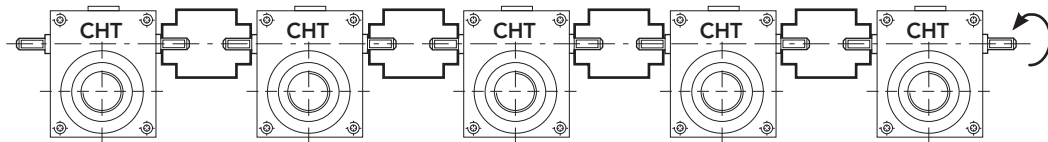
The maximum load on the input shaft of the jack (worm screw) must not exceed the values specified in the table below, measured at half shaft.



SIZE	CHS 1	CHS 2	CHS 3	CHS 4	CHS 5	CHS 6	CHS 7	CHS 8
Fr (daN)	10	22	45	60	60	60	90	90

TORQUE (daNm) (INPUT SHAFT)

For applications with multiple screw jack mounted in series, it is necessary not to exceed the values specified in the table below:



SIZE	CHS 1	CHS 2	CHS 3	CHS 4	CHS 5	CHS 6	CHS 7	CHS 8
	MT (daNm)	MT (daNm)	MT (daNm)	MT (daNm)	MT (daNm)	MT (daNm)	MT (daNm)	MT (daNm)
Fast speed (1/5)	2,30	5,40	7,00	49,00	49,00	49,00	80,5	80,5
Fast speed (1/10-1/20)	2,30	5,40	18,50	15,50	13,00	15,30	60,3	60,2
Slow speed (1/30)	-	4,20	15,50	13,00	15,50	13,00	48,2	48,2

VIBRATIONS

CHIARAVALLI jacks, with threaded shafts, are absolutely IRREVERSIBLE, special braking systems to maintain the set position are not required.

If they should be subjected to high vibrations, we do suggest to brake the input shaft (for example by using a self-braking electric motor).



MANUAL HANDLING

All CHIARAVALLI screw jacks can be operated manually. The following table shows the maximum load, assuming that a 250 mm diameter wheel is put at input jack to and 5 Kg force is applied to that wheel. Higher loads can be obtained by inserting a CHIARAVALLI gear box between the wheel and the jack or by increasing the wheel diameter.

Max "C" load in daN

SIZE	CHS 1 daN	CHS 2 daN	CHS 3 daN	CHS 4 daN	CHS 5 daN	CHS 6 daN	CHS 7 daN	CHS 8 daN
Fast Speed (1/5)	500	1000	2000	1500	1000	950	900	860
Fast Speed (1/10-1/20)	500	1000	2500	2900	2000	1800	1600	1500
Fast Speed	-	1000	2500	5000	4300	3800	3200	3200

DRIVE BY ELECTRIC MOTOR

CHIARAVALLI series of screw jacks is provided for the connection with electric motors. The tables from pages. 18 to 48 define the engine power and the torque at the start-up of dynamic load, the reduction ratio and the linear speed, related to a use of 30% out of 10 minutes of operation.

MECHANICAL EFFICIENCY

The mechanical efficiency is shown in the table on pages 18 - 48. In the assembly of several jacks, to calculate the total efficiency of the transmission, it should be considered a decrease of 5% performance by each screw jack, for example:

- 2 jacks 95%
- 3 jacks 90% etc.. etc..

HEATING

CHIARAVALLI screw jack, being an IRREVERSIBLE machine, has a relatively low mechanical efficiency, so a certain amount of installed power will turn into heat, bringing the jack, if used correctly, to a maximum temperature of 80 ° C.

LOAD

From the tables on pages 18 - 48 you can detect the maximum loads for each screw jack not to be exceeded. To select the jack, it is necessary to apply also the coefficients stated below, relating to temperature and duty cycle. If different from the calculation conditions, they can change the actual load. Also check the maximum buckling load from the table on page 17, which changes according to the length of the lifting screw.



OPERATING TEMPERATURE

All data mentioned in this catalogue refer to a room temperature of 20° C. For different room temperatures it is necessary to derive the correction "x" factor from the table here below. For the JACK CORRECT CAPACITY, multiply the jack load capacity by then "x" factor.

ROOM TEMPERATURE	10°	20°	30°	40°	50°	60°	70°	80°
"X" Factor	1,25	1	0,8	0,7	0,5	0,3	0,2	0,1

OPERATION - SERVICE FACTOR

The tables on pages 22 - 36 refer to a service of 30% in 10 minutes and at a room temperature of 20° C. For different services, it is necessary to find the "SF" Service Factor relating to the service required by consulting the chart here below and multiplying the dynamic load factor such factor.

% OUT OF 10 MINUTES	30%	40%	50%	60%	70%	80%	90%	100%
"SF" Factor	1	1,1	1,3	1,6	2	2,5	3	5

POWER AND INPUT TORQUE

See the tables from page 18 to page 48: for the boxes with a light blue background consult our technical department.

LUBRICATION

CHIARAVALLI screw jacks are lubricated with a long life lithium soap grease AGIP GR MU EP2 and fitted with grease lubricator, for subsequent operations.

LUBRICATION INTERVALS:

normal working conditions: once a month
 heavy work conditions: once a week
 continuous working conditions: foresee lubrication system.

LUBRICATION OIL (OPTIONAL)

On request, it is possible to have oil lubrication.

Here below the recommended types of oil:

MOBIL GEAR 630
 SHELL OMALA 220
 IP MELLANA 220

LUBRIFICATION LIFTING SCREW

A correct life of CHIARAVALLI screw jack also depends on the lifting screw good lubrication, which must be carried out not later than approximately 500 hours of normal working. Heavy duty or special environmental conditions reduce this lubrication interval.

The recommended lubricants for this operation are:

TOTAL CERAN WR2 - BECHEM-RHUS BERUTOX M 21 KN

USE ISTRUCTION

STROKE - 2000 mm maximum standard stroke
 Longer strokes are made on request.
 SPEED' - the linear speed that can be used by
 screw jacks depends on several factors:
 TYPE OF SCREW JACK and transmission ratio

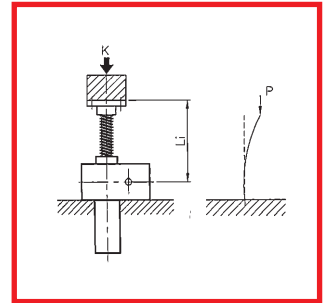
THERMAL CAPACITY
 DYNAMIC LOAD
 ROOM TEMPERATURE
 SERVICE

The tables on pages 18 - 48 define, according to the load, the power required torque and the speed limit.

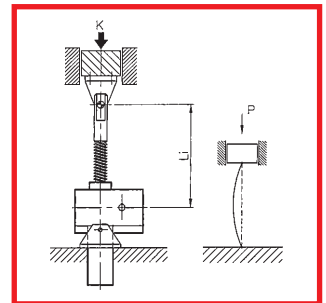


CRITICAL COMPRESSION LOAD

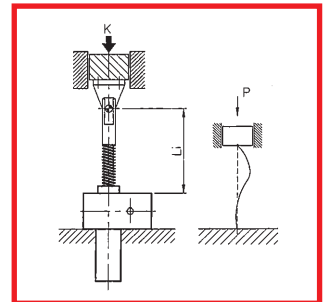
SIZE				CHS 1	CHS 2	CHS 3	CHS 4	CHS 5	CHS 6	CHS 7	CHS 8
Deflection length (mm)				kN	kN	kN	kN	kN	kN	kN	kN
Eulero 1	Eulero 2	Eulero 3	Eulero 4								
100	200	285	400	5,00	10,00	25,00	50,00	100,00	150,00	200,00	350,00
125	250	355	500	5,00	10,00	25,00	50,00	100,00	150,00	200,00	350,00
150	300	425	600	5,00	10,00	25,00	50,00	100,00	148,70	200,00	350,00
175	350	495	700	5,00	10,00	25,00	50,00	100,00	145,87	200,00	350,00
200	400	565	800	5,00	10,00	25,00	50,00	100,00	143,04	200,00	350,00
225	450	635	900	4,00	7,10	25,00	50,00	100,00	140,21	200,00	350,00
250	500	710	1000	3,30	5,80	25,00	50,00	100,00	137,38	200,00	350,00
275	550	780	1100	2,75	4,80	22,80	50,00	100,00	134,55	200,00	350,00
300	600	850	1200	2,30	4,00	19,40	50,00	100,00	131,72	200,00	350,00
325	650	920	1300	2,00	3,40	16,50	50,00	100,00	128,88	200,00	350,00
350	700	990	1400	1,70	3,00	14,20	50,00	100,00	126,05	200,00	350,00
375	750	1060	1500	1,50	2,60	12,40	45,60	100,00	123,22	200,00	350,00
400	800	1130	1600	1,30	2,20	10,90	40,90	100,00	120,39	200,00	350,00
425	850	1200	1700		2,00	9,60	36,20	100,00	117,56	200,00	350,00
450	900	1275	1800		1,80	8,60	32,30	100,00	114,73	200,00	350,00
475	950	1345	1900		1,60	7,80	29,00	100,00	111,90	200,00	350,00
500	1000	1415	2000		1,40	7,00	26,10	97,40	109,07	200,00	350,00
525	1050	1485	2100			6,30	23,80	90,80	101,34	200,00	350,00
550	1100	1555	2200			5,80	21,60	84,10	97,74	200,00	350,00
575	1150	1625	2300			5,30	19,80	77,40	79,74	200,00	350,00
600	1200	1700	2400			4,80	18,10	71,00	61,37	200,00	350,00
625	1250	1770	2500			4,50	16,80	65,50	47,45	200,00	350,00
650	1300	1840	2600			4,10	15,50	60,50	35,65	200,00	350,00
675	1350	1910	2700			3,80	14,40	56,10	25,87	200,00	350,00
700	1400	1980	2800			3,60	13,30	52,20	17,68	200,00	350,00
725	1450	2050	2900				12,50	48,60	10,74	200,00	350,00
750	1500	2120	3000				11,60	45,50	4,82	200,00	350,00
775	1550	2200	3100				10,90	42,60		200,00	350,00
800	1600	2270	3200				10,20	40,00		200,00	350,00
825	1650	2340	3300				9,60	37,60		200,00	350,00
850	1700	2400	3400				9,00	35,40		200,00	350,00
875	1750	2475	3500				8,50	33,40		200,00	350,00
900	1800	2546	3600				8,00	31,60		200,00	350,00
925	1850	2620	3700				7,60	29,90		200,00	350,00
950	1900	2690	3800				7,20	28,30		200,00	350,00
975	1950	2760	3900				6,90	26,90		177,51	350,00
1000	2000	2830	4000				6,60	25,60		151,71	350,00
1050	2100	2970	4200					23,20		129,35	344,59
1100	2200	3110	4400					21,10		109,84	334,32
1150	2300	3250	4600					19,30		92,72	299,62
1200	2400	3400	4800					17,80		77,61	262,93
1250	2500	3540	5000					16,40		64,21	230,56
1300	2600	3680	5200					15,10		52,27	201,85



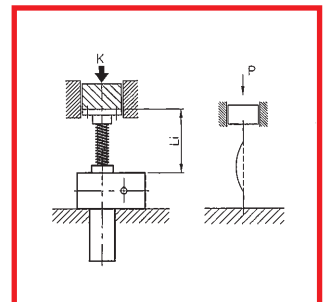
EULERO 1



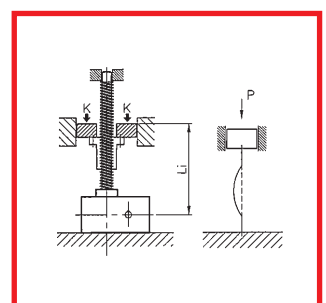
EULERO 2



EULERO 3



EULERO 4

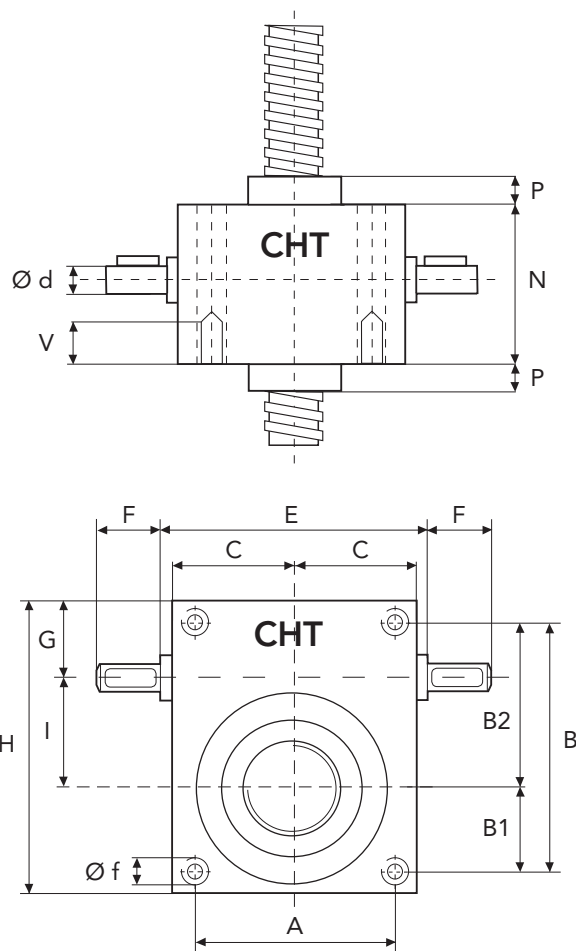


EULERO 4



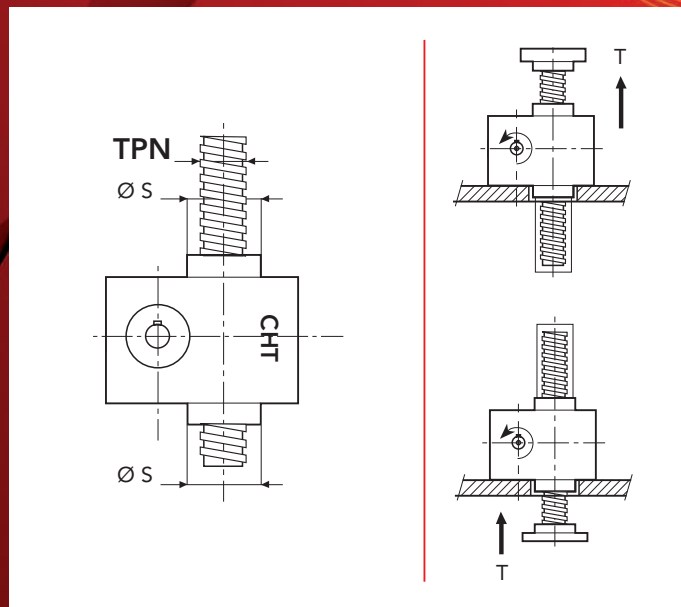
SERIES CHS 1 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 1
LOAD	daN (Kg)	500
TPN SCREW	DIAMETER mm	18
	PITCH mm	4
GEAR RATIOS	FAST SPEED	5:1
	NORMAL SPEED	20:1
STROKE FOR INPUT REV.	FAST SPEED	0,80
	NORMAL SPEED	0,20
EFFICIENCY	FAST SPEED	25,5%
	NORMAL SPEED	23,8%
JACK WEIGHT (Kg)		2,4
SCREW WEIGHT TPN X 100 mm (Kg)		0,16
CASE MATERIAL		G25
GREASE QTY (Kg)		0,06
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	



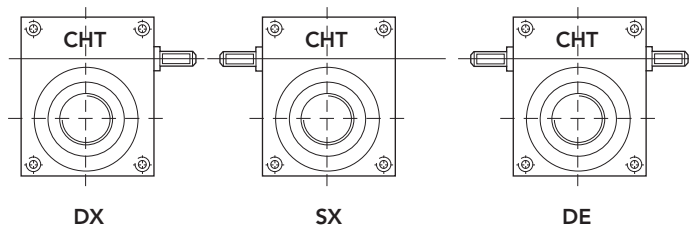
TRANSLATING

SERIES CHS 1 TS - 500 daN · TPN 18x4



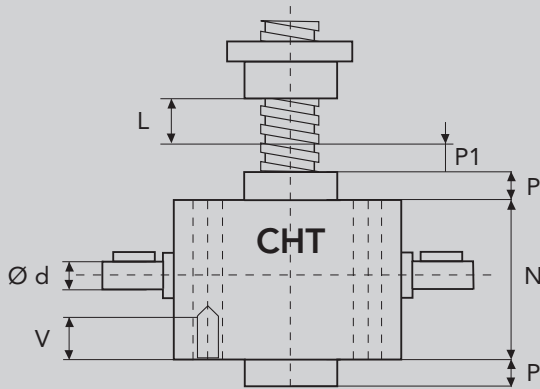
	A	B	B1	B2	C	E	F	G	H
CHS1	56	80	28	52	36	-	20	30	96
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS1	30	50	10	15	*	9	8,4	30	18x4

* tapped holes on request

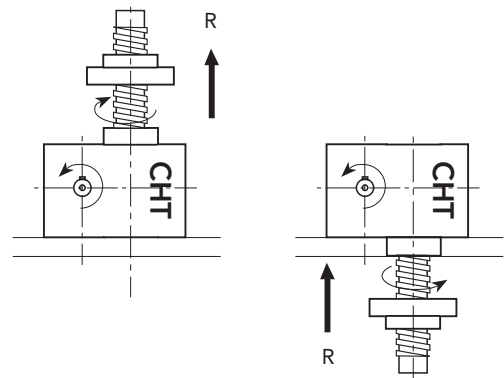
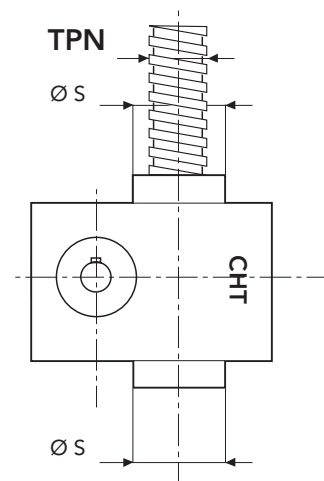
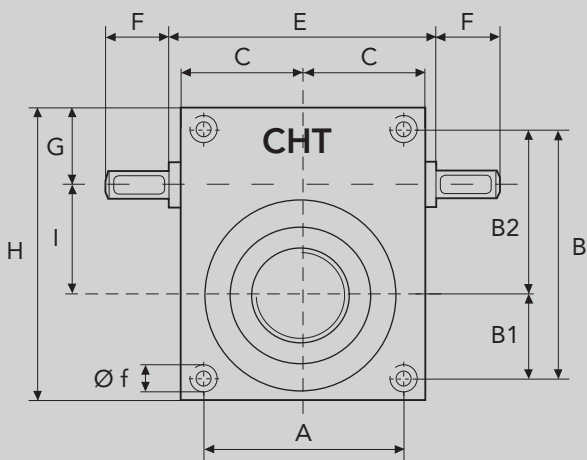




SERIES CHS 1 RS · ROTATING SCREW



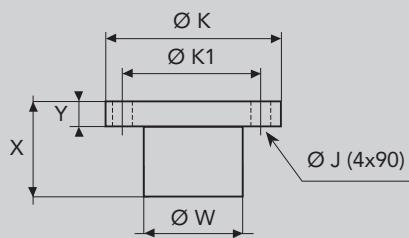
L = STROKE



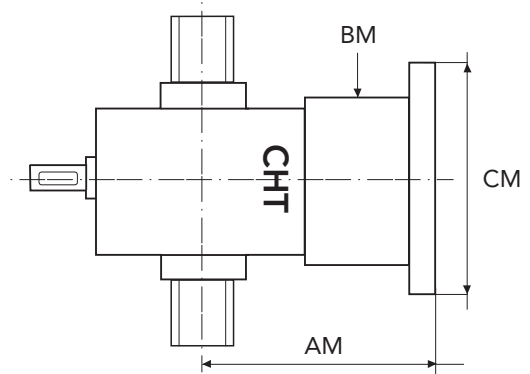
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

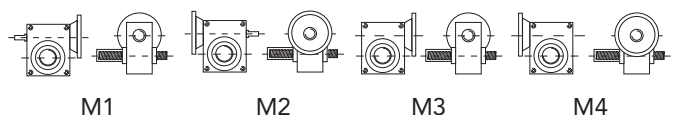


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS1	45	12	26	54	40	7



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 56	B5	120	94	49
	B14	80		
GR. 63	B5	140	94	49
	B14	90		

CONFIGURATION

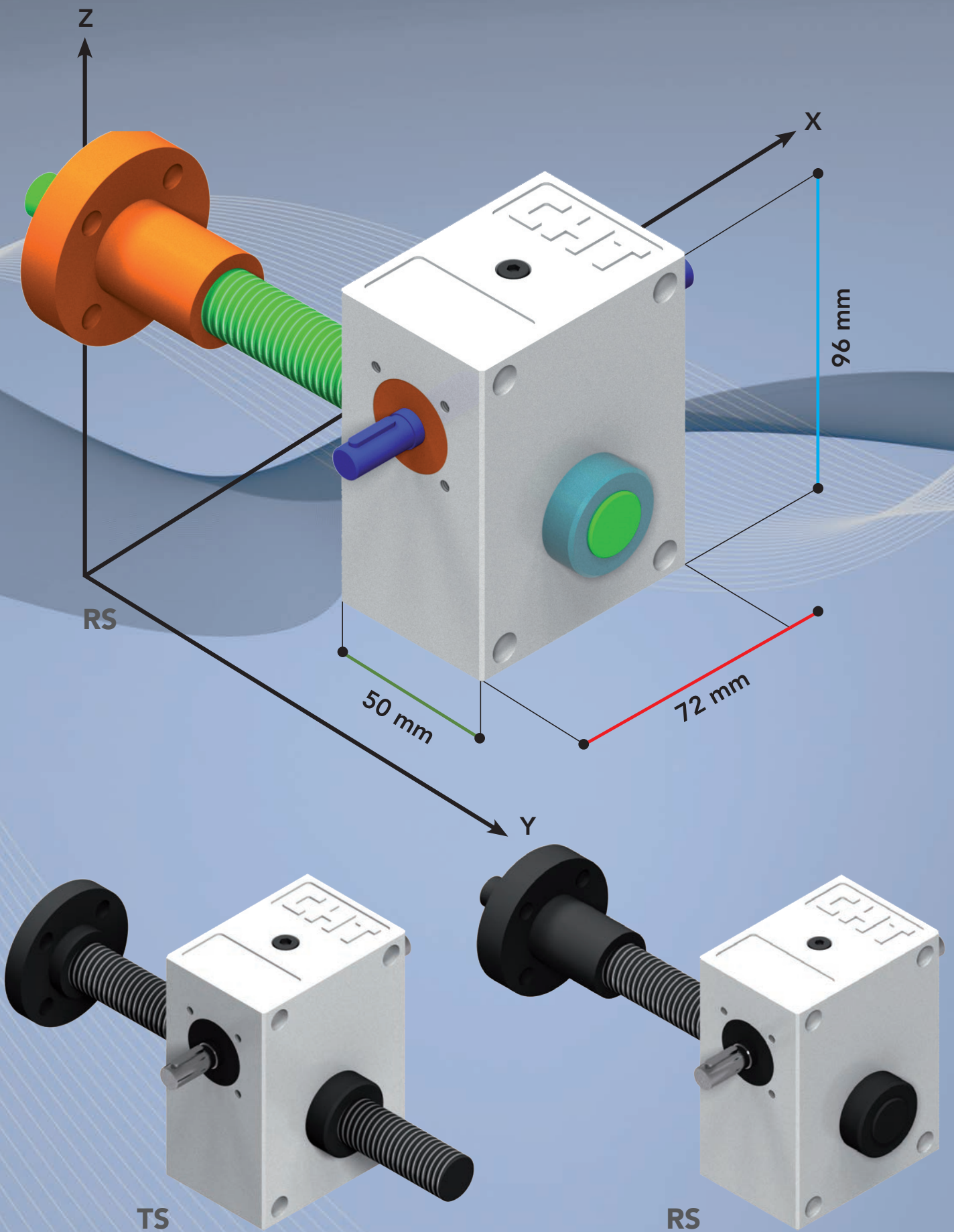




SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

load in daN			500		300		100		50	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	1200	1500	0,39	0,25	0,24	0,15	0,08	0,05	0,07	0,04
	800	1000	0,26	0,25	0,16	0,15	0,07	0,05	0,07	0,04
	600	750	0,20	0,25	0,12	0,15	0,07	0,05	0,07	0,04
	40	50	0,07	0,25	0,07	0,15	0,07	0,05	0,07	0,04

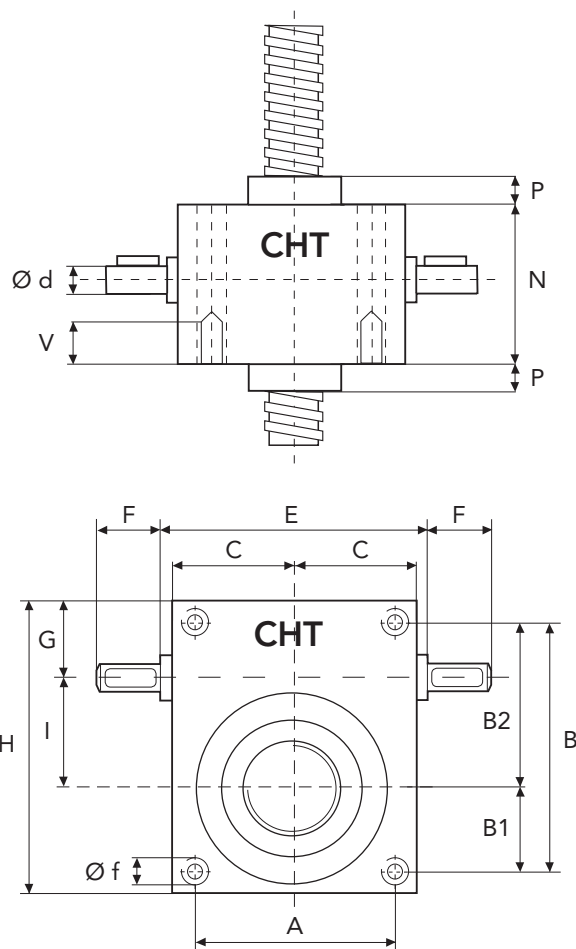
load in daN			500		300		100		50	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
20	300	1500	0,11	0,07	0,07	0,04	0,07	0,04	0,07	0,04
	200	1000	0,07	0,07	0,07	0,04	0,07	0,04	0,07	0,04
	150	750	0,07	0,07	0,07	0,04	0,07	0,04	0,07	0,04
	10	50	0,07	0,07	0,07	0,04	0,07	0,04	0,07	0,04





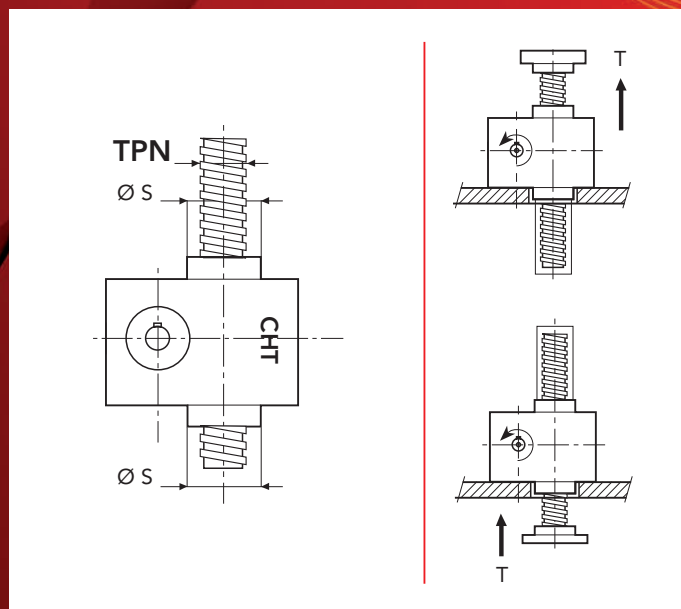
SERIES CHS 2 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 2
LOAD	daN (Kg)	1000
TPN SCREW	DIAMETER mm PITCH mm	20 4
GEAR RATIOS	FAST SPEED NORMAL SPEED SLOW SPEED	5:1 10:1 30:1
STROKE FOR INPUT REV.	FAST SPEED NORMAL SPEED SLOW SPEED	0,80 0,40 0,13
EFFICIENCY	FAST SPEED NORMAL SPEED SLOW SPEED	24,8% 23,1% 21,5%
JACK WEIGHT (Kg)		4,0
SCREW WEIGHT TPN X 100 mm (Kg)		0,20
CASE MATERIAL		G25
GREASE QTY (Kg)		0,1
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	



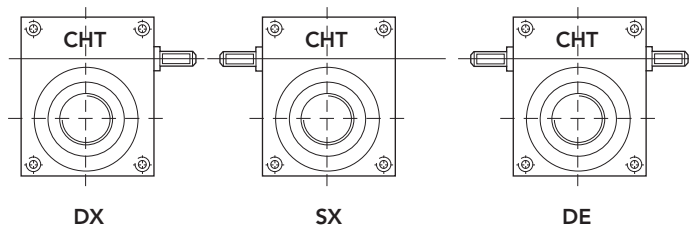
TRANSLATING SCREW

SERIES CHS 2 TS - 1000 daN · TPN 20x4



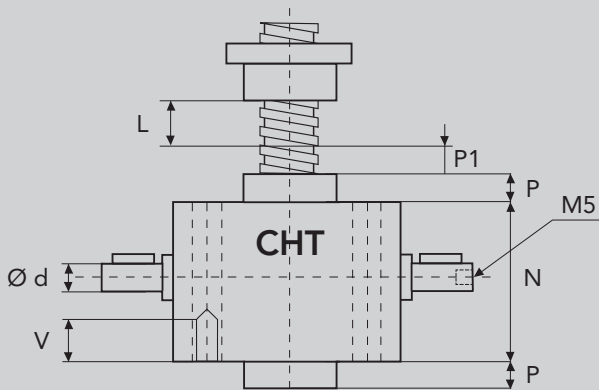
	A	B	B1	B2	C	E	F	G	H
CHS2	80	85	30	55	49	-	23,5	33,5	102
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS2	30	70	20	15	*	12	8,4	44	20x4

* tapped holes on request

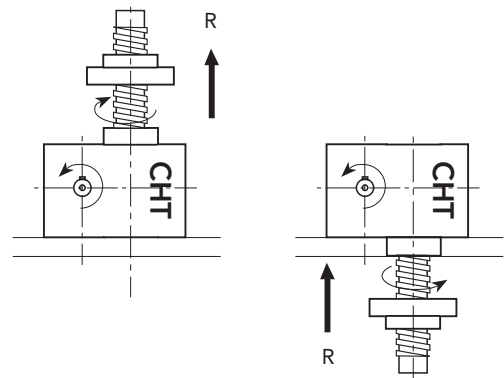
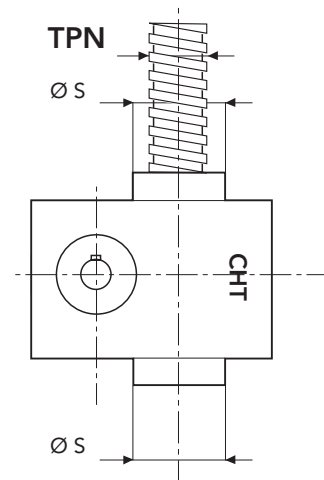
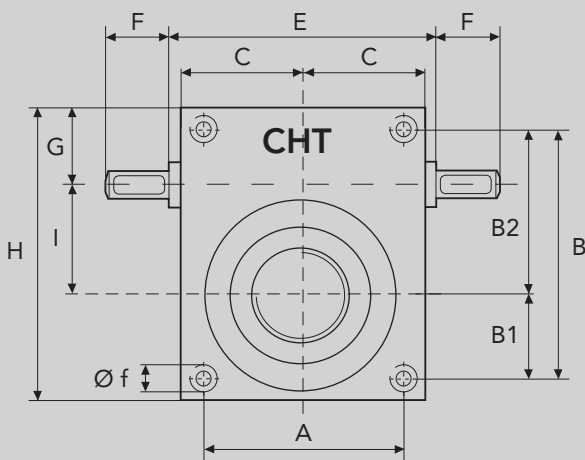




SERIES CHS 2 RS · TRANSLATING SCREW



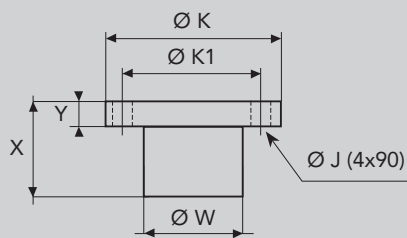
L = STROKE



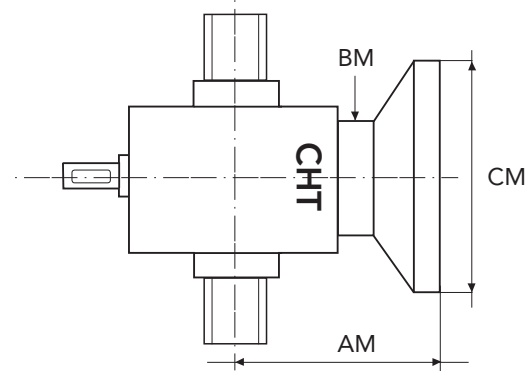
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

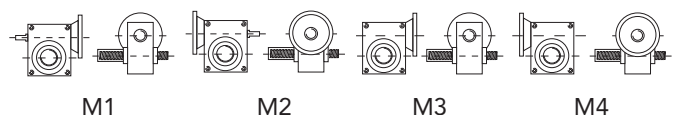


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS2	45	12	32	60	45	7



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 63	B5	140	84	64
	B14	90		
GR. 71	B5	160	84	64
	B14	105		

CONFIGURATION



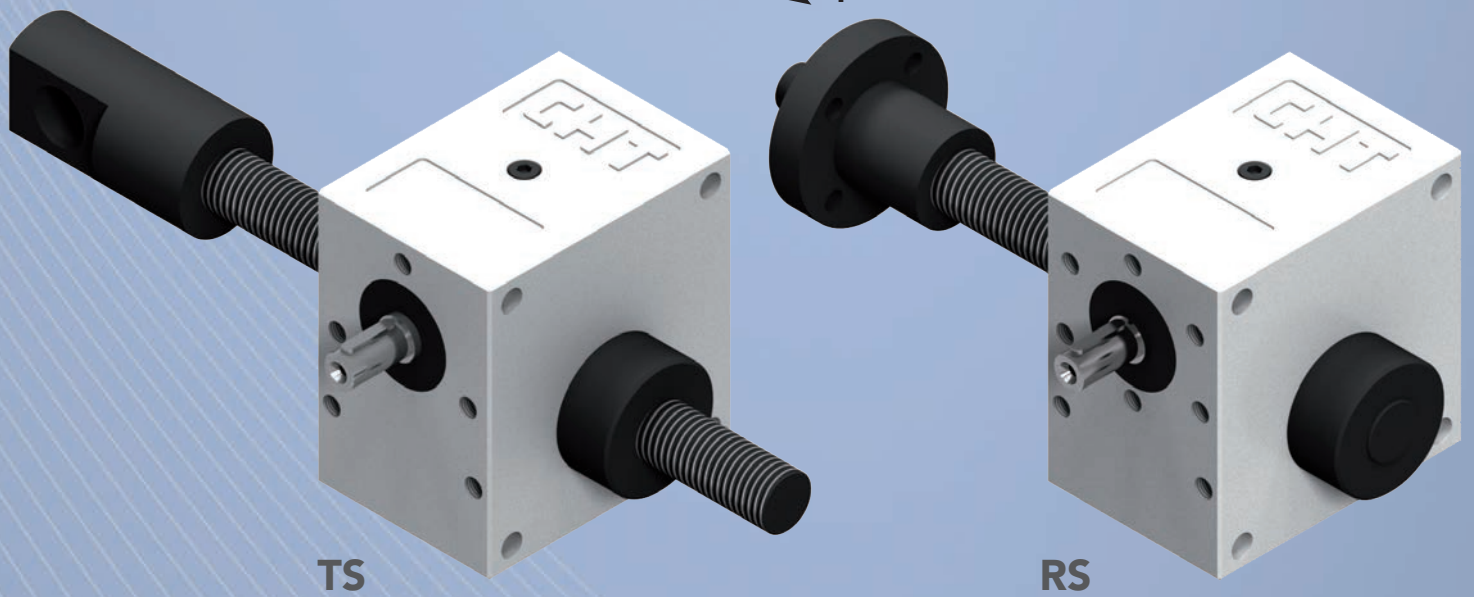
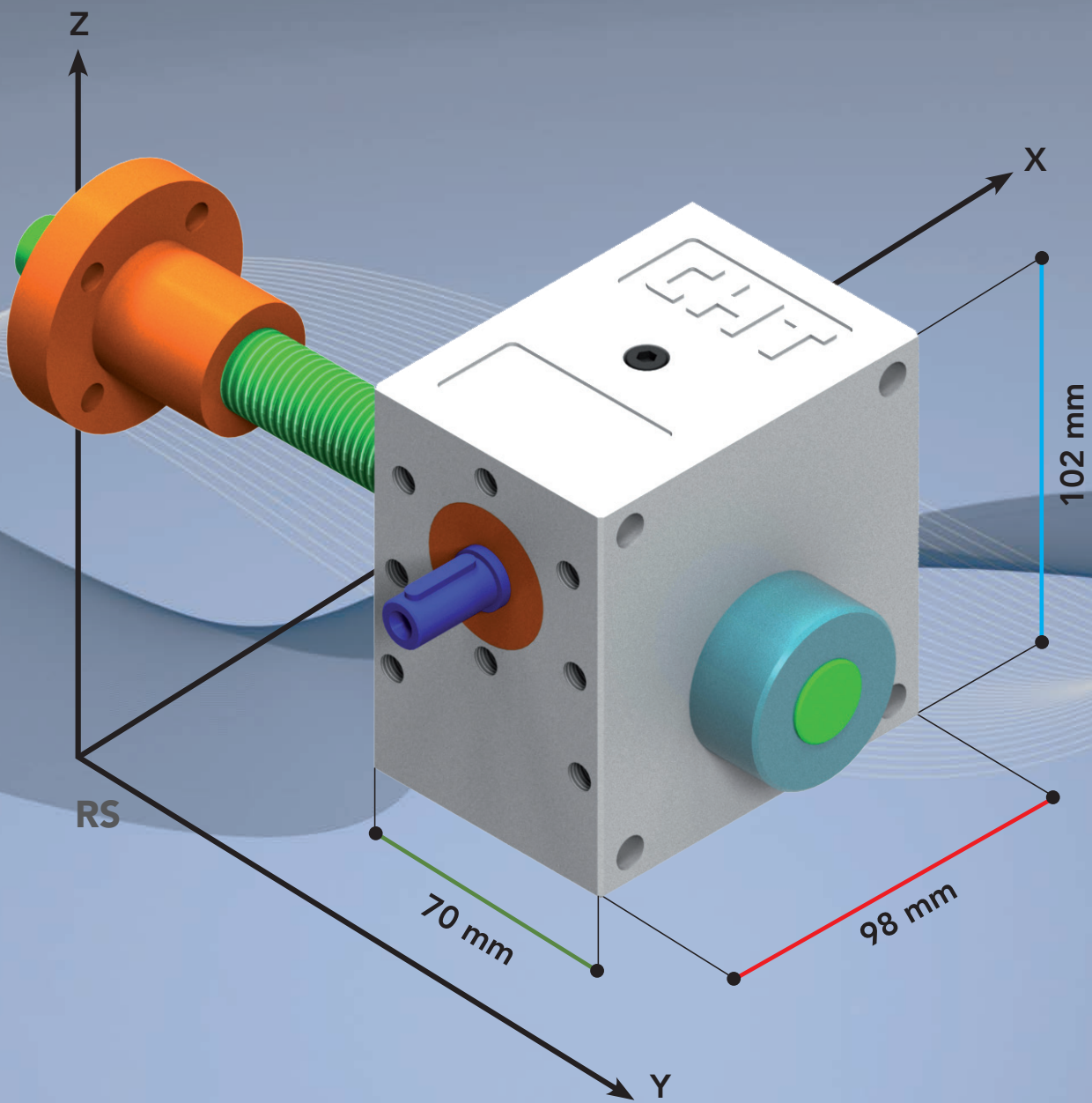


SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

load in daN			1000		600		100		50	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	1200	1500	0,81	0,51	0,49	0,31	0,24	0,15	0,08	0,05
	800	1000	0,54	0,51	0,32	0,31	0,16	0,15	0,07	0,05
	600	750	0,40	0,51	0,24	0,31	0,12	0,15	0,07	0,05
	40	50	0,07	0,51	0,07	0,31	0,07	0,15	0,07	0,05

load in daN			1000		600		100		50	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
10	600	1500	0,43	0,28	0,26	0,17	0,13	0,08	0,07	0,03
	400	1000	0,29	0,28	0,17	0,17	0,09	0,08	0,07	0,03
	300	750	0,22	0,28	0,13	0,17	0,07	0,08	0,07	0,03
	20	50	0,07	0,28	0,07	0,17	0,07	0,08	0,07	0,03

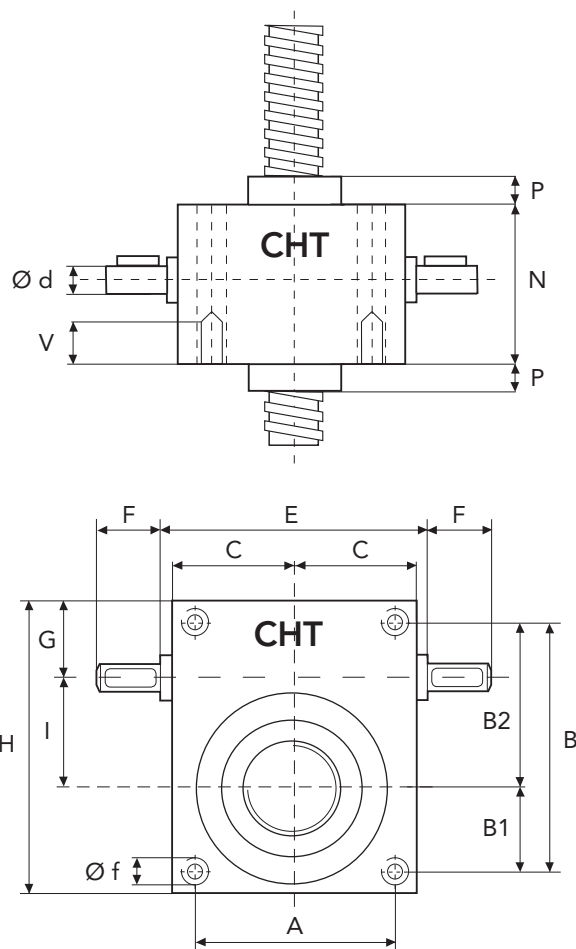
load in daN			1000		600		100		50	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
30	200	1500	0,16	0,10	0,09	0,06	0,07	0,03	0,07	0,01
	133	1000	0,10	0,10	0,07	0,06	0,07	0,03	0,07	0,01
	100	750	0,08	0,10	0,07	0,06	0,07	0,03	0,07	0,01
	6,7	50	0,07	0,10	0,07	0,06	0,07	0,03	0,07	0,01





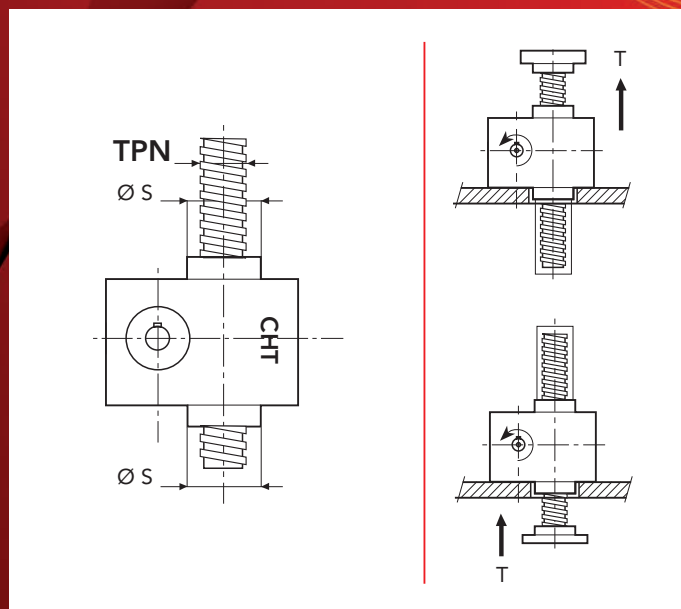
SERIES CHS 3 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 3
LOAD	daN (Kg)	2500
TPN SCREW	DIAMETER mm	30
	PITCH mm	6
GEAR RATIOS	FAST SPEED	5:1
	NORMAL SPEED	10:1
	SLOW SPEED	30:1
STROKE FOR INPUT REV.	FAST SPEED	1,20
	NORMAL SPEED	0,60
	SLOW SPEED	0,20
EFFICIENCY	FAST SPEED	22,5%
	NORMAL SPEED	21,0%
	SLOW SPEED	19,5%
JACK WEIGHT (Kg)		9,0
SCREW WEIGHT TPN X 100 mm (Kg)		0,48
CASE MATERIAL		G25
GREASE QTY (Kg)		0,3
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	



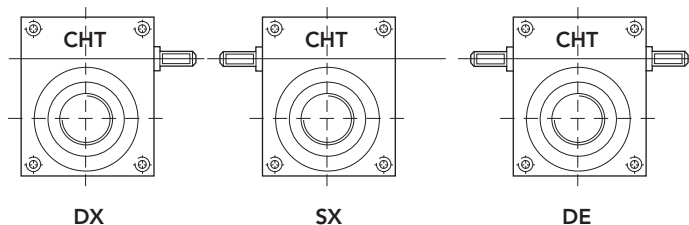
TRANSLATING SCREW

SERIES CHS 3 TS - 2500 daN · TPN 30x6



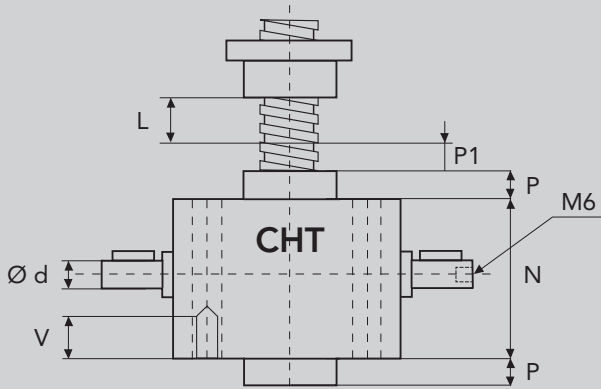
	A	B	B1	B2	C	E	F	G	H
CHS3	102	131	48	83	64	-	39	42,5	150
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS3	50	90	25	20	*	20	10,4	60	30x6

* tapped holes on request

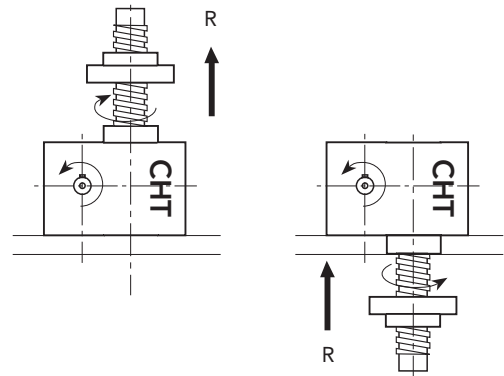
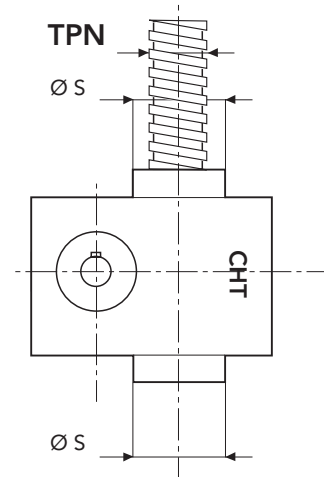
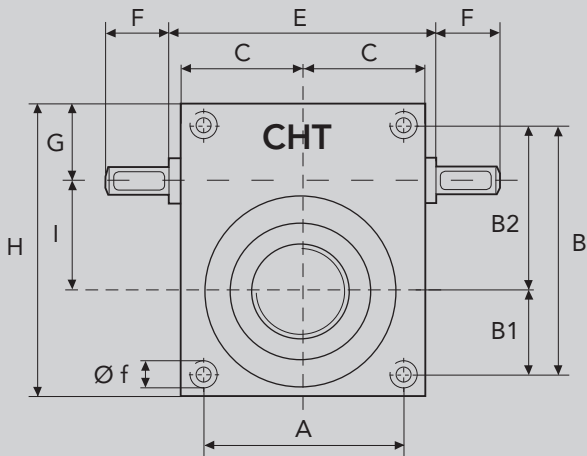




SERIES CHS 3 RS · ROTATING SCREW



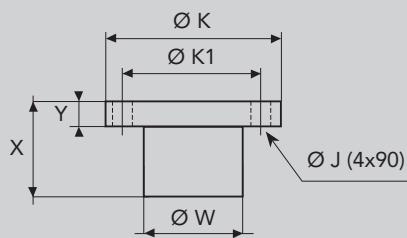
L = STROKE



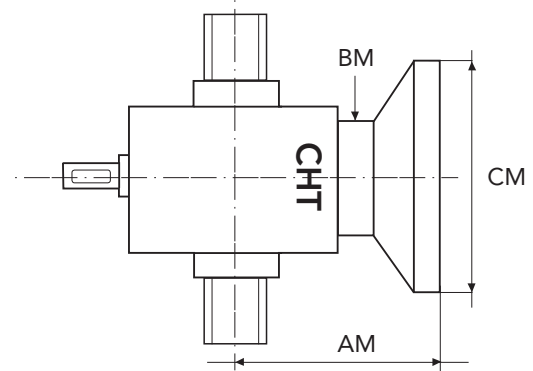
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

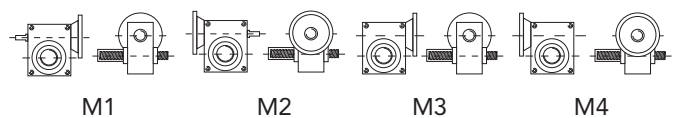


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS3	48	14	46	80	64	7



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 63	B5	140	112,5	84
	B14	90		
GR. 71	B5	160	112,5	84
	B14	105		
GR. 80	B5	200	112,5	84
	B14	120		

CONFIGURATION





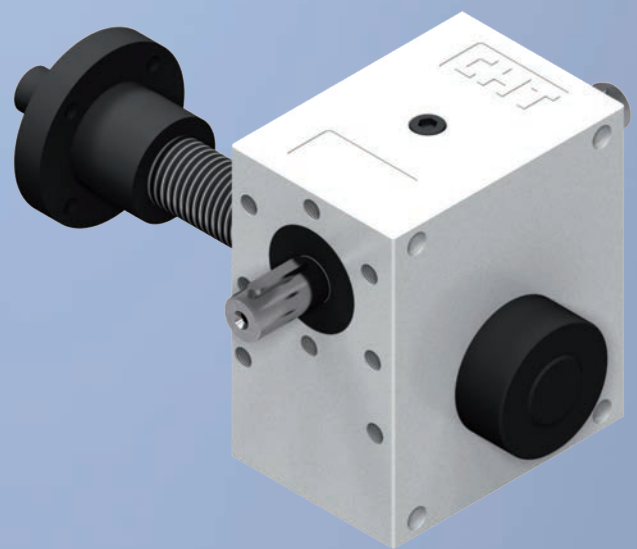
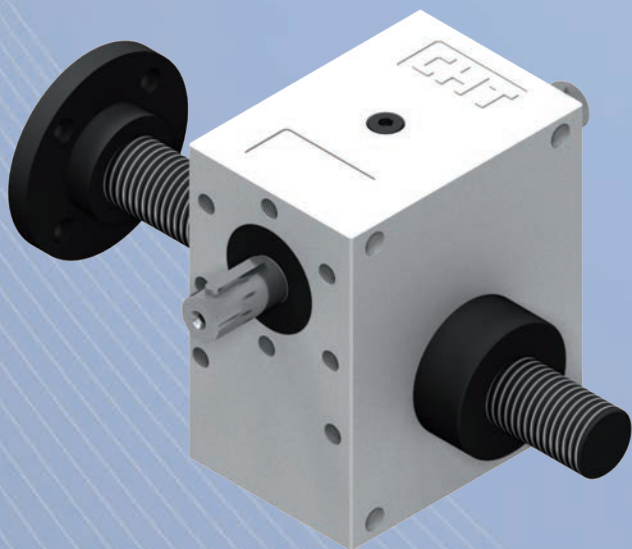
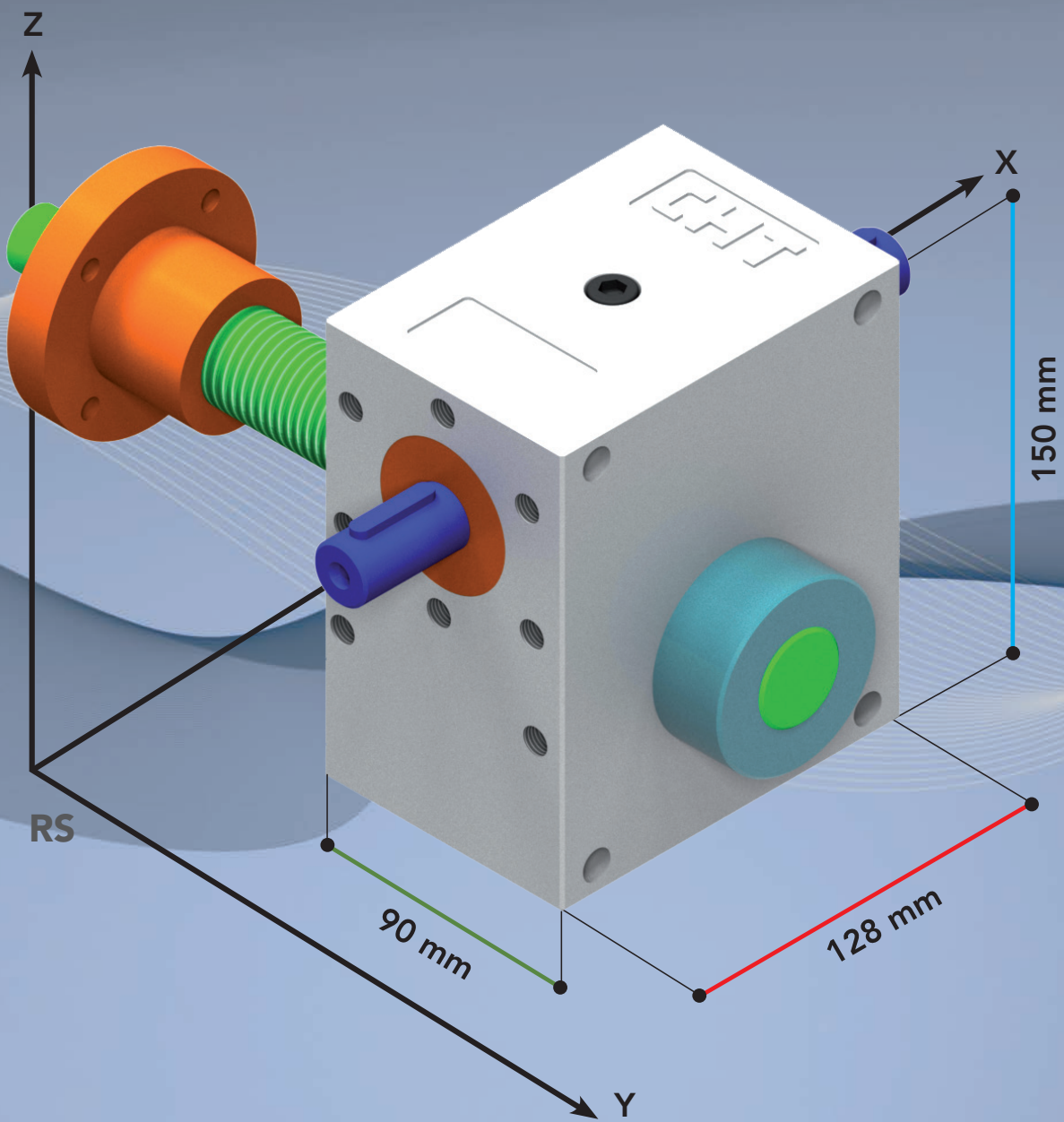
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiaravalli technical
department

load in daN			2500		1500		750		250	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	1800	1500	3,33	2,12	2,00	1,27	1,00	0,64	0,33	0,21
	1200	1000	2,22	2,12	1,33	1,27	0,67	0,64	0,22	0,21
	900	750	1,67	2,12	1,00	1,27	0,50	0,64	0,17	0,21
	60	50	0,11	2,12	0,07	1,27	0,07	0,64	0,07	0,21

load in daN			2500		1500		750		250	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
10	900	1500	1,79	1,14	1,07	0,68	0,54	0,34	0,18	0,11
	600	1000	1,19	1,14	0,71	0,68	0,36	0,34	0,12	0,11
	450	750	0,89	1,14	0,54	0,68	0,27	0,34	0,09	0,11
	30	50	0,07	1,14	0,07	0,68	0,07	0,34	0,07	0,11

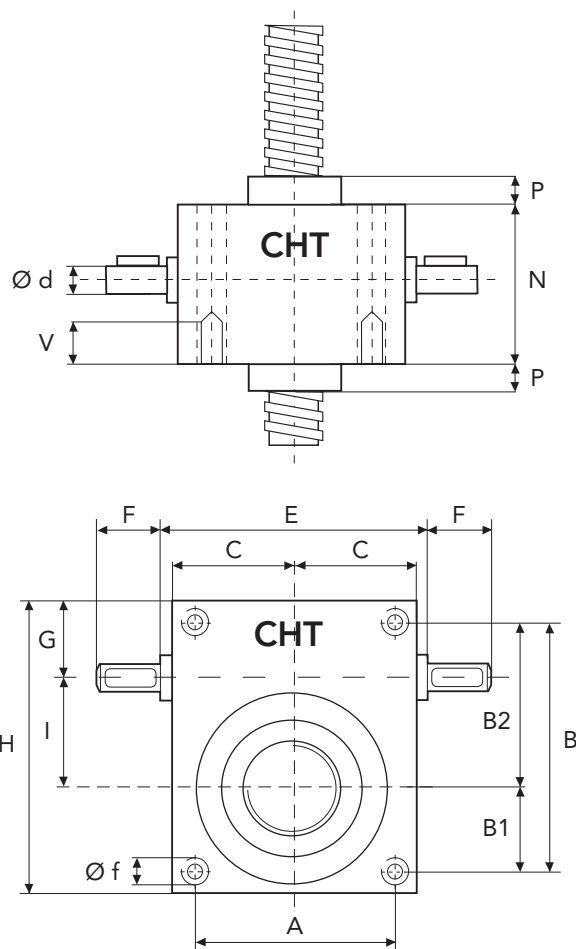
load in daN			2500		1500		750		250	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
30	300	1500	0,64	0,41	0,38	0,24	0,19	0,12	0,07	0,04
	200	1000	0,43	0,41	0,26	0,24	0,13	0,12	0,07	0,04
	150	750	0,32	0,41	0,19	0,24	0,10	0,12	0,07	0,04
	10,0	50	0,07	0,41	0,07	0,24	0,07	0,12	0,07	0,04





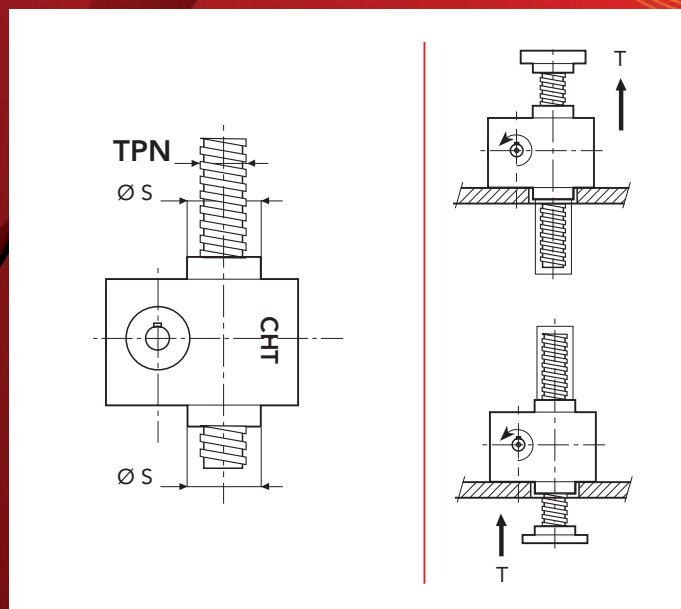
SERIES CHS 4 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 4
LOAD	daN (Kg)	5000
TPN SCREW	DIAMETER mm PITCH mm	40 7
GEAR RATIOS	FAST SPEED NORMAL SPEED SLOW SPEED	5:1 10:1 30:1
STROKE FOR INPUT REV.	FAST SPEED NORMAL SPEED SLOW SPEED	1,40 0,70 0,23
EFFICIENCY	FAST SPEED NORMAL SPEED SLOW SPEED	21,0% 19,6% 18,2%
JACK WEIGHT (Kg)		20
SCREW WEIGHT TPN X 100 mm (Kg)		0,9
CASE MATERIAL		G25
GREASE QTY (Kg)		0,65
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	



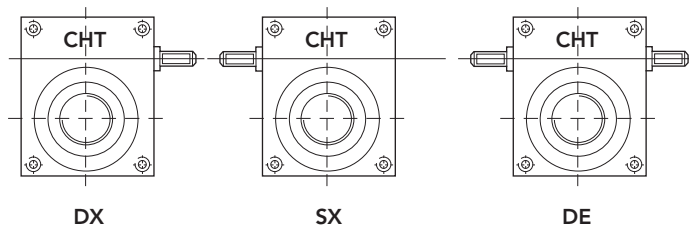
TRANSLATING SCREW

SERIES CHS 4 TS - 5000 daN · TPN 40x7



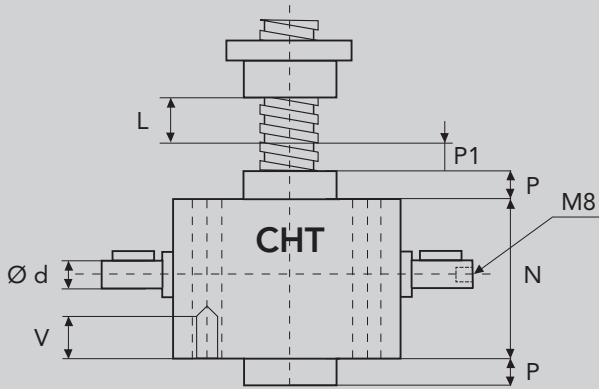
	A	B	B1	B2	C	E	F	G	H
CHS4	130	165	60	105	82,5	-	52,5	55	200
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS4	70	120	35	25	*	25	12,5	69	40x7

* tapped holes on request

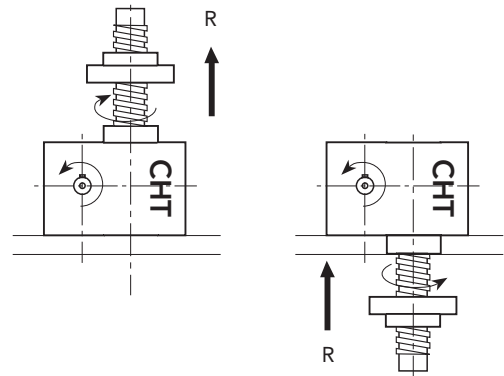
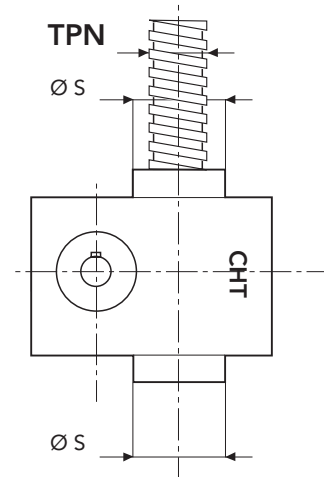
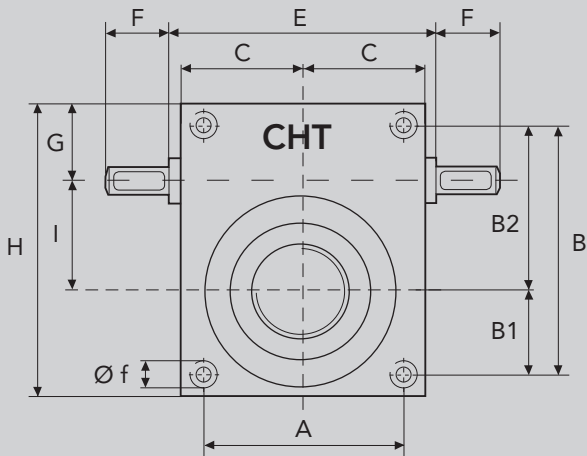




SERIES CHS 4 RS · ROTATING SCREW



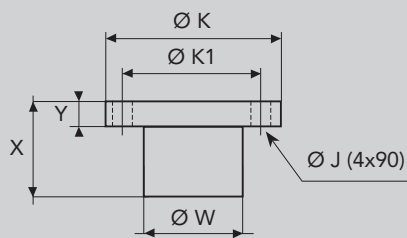
L = STROKE



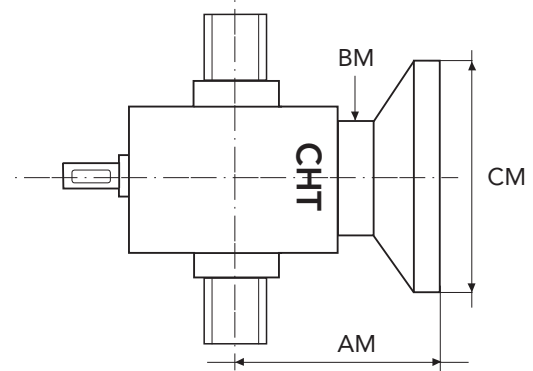
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

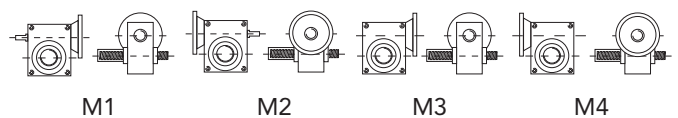


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS4	75	15	60	96	78	9



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 80	B5	200	140	108
	B14	120		
GR. 90	B5	200	140	108
	B14	140		
GR. 100/112	B5	250	140	108
	B14	160		

CONFIGURATION





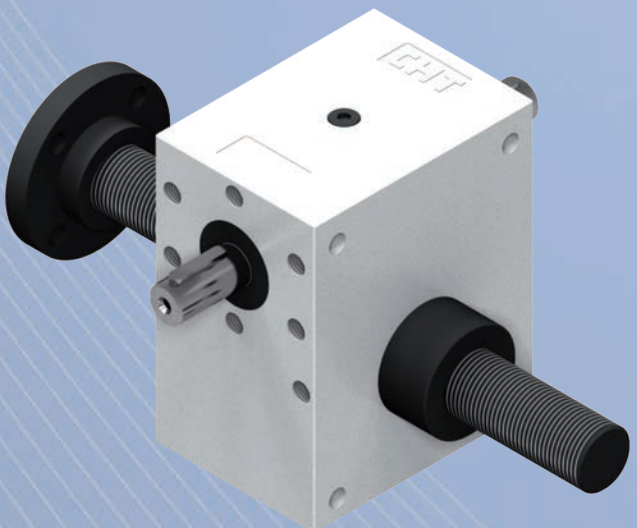
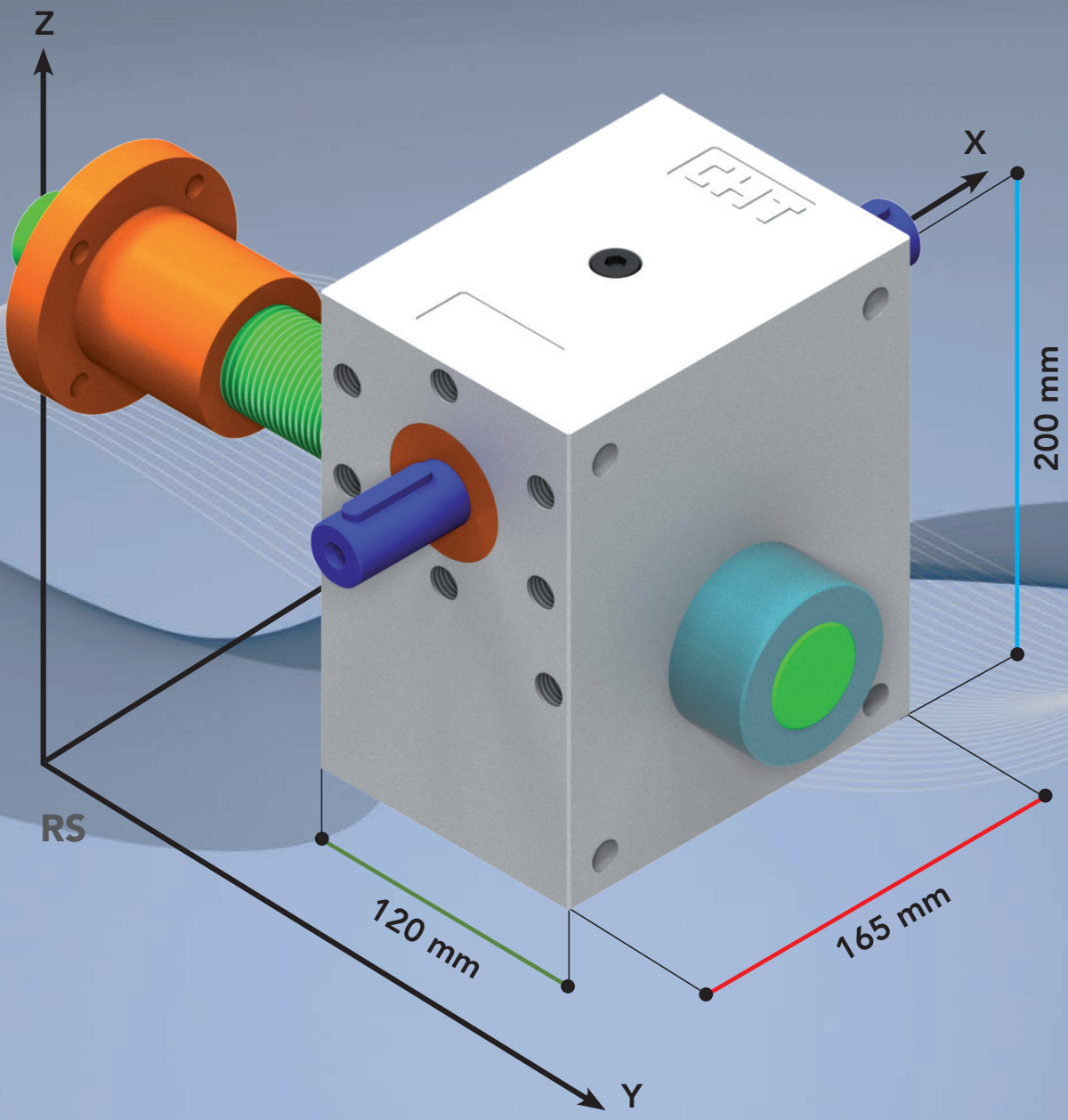
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiavalli technical
department

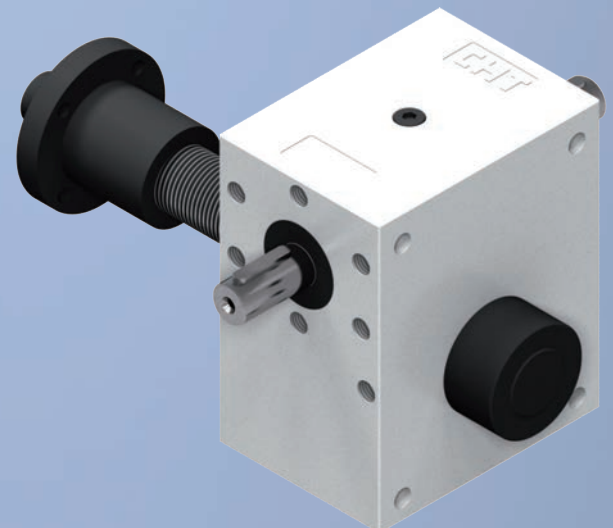
load in daN			5000		3000		1500		500	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	2100	1500	8,34	5,31	5,00	3,18	2,50	1,59	0,83	0,53
	1400	1000	5,56	5,31	3,33	3,18	1,67	1,59	0,56	0,53
	1050	750	4,17	5,31	2,50	3,18	1,25	1,59	0,42	0,53
	70	50	0,28	5,31	0,17	3,18	0,08	1,59	0,07	0,53

load in daN			5000		3000		1500		500	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
10	1050	1500	4,47	2,84	2,68	1,71	1,34	0,85	0,45	0,28
	700	1000	2,98	2,84	1,79	1,71	0,89	0,85	0,30	0,28
	525	750	2,23	2,84	1,34	1,71	0,67	0,85	0,22	0,28
	35	50	0,15	2,84	0,09	1,71	0,07	0,85	0,07	0,28

load in daN			5000		3000		1500		500	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
30	350	1500	1,60	1,02	0,96	0,61	0,48	0,31	0,16	0,10
	233,3	1000	1,07	1,02	0,64	0,61	0,32	0,31	0,11	0,10
	175,0	750	0,80	1,02	0,48	0,61	0,24	0,31	0,08	0,10
	11,7	50	0,07	1,02	0,07	0,61	0,07	0,31	0,07	0,10



TS

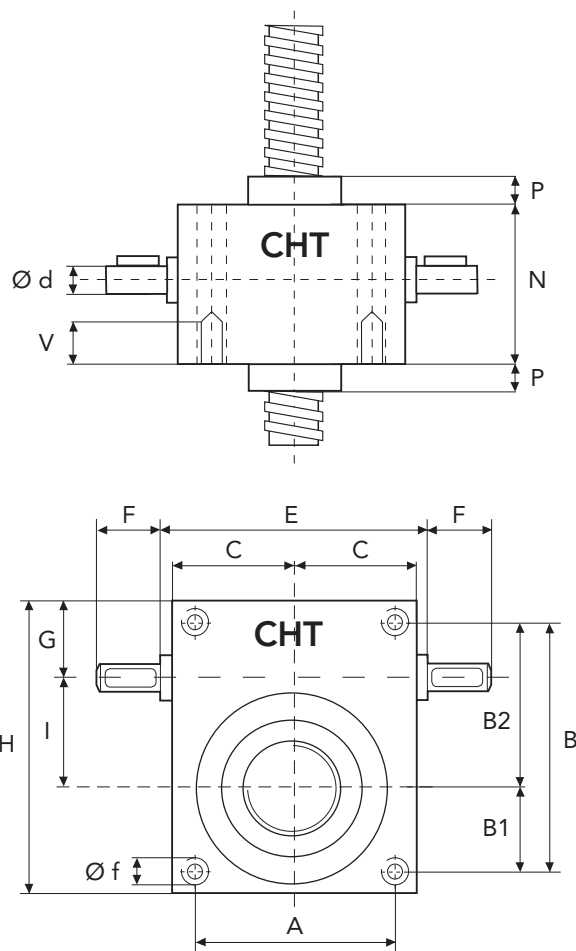


RS



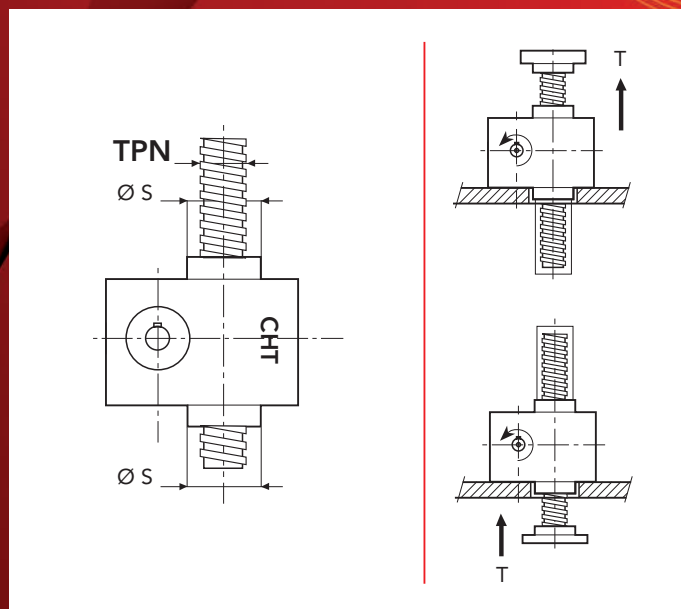
SERIES CHS 5 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 5
LOAD	daN (Kg)	10000
TPN SCREW	DIAMETER mm PITCH mm	55 9
GEAR RATIOS	FAST SPEED NORMAL SPEED SLOW SPEED	5:1 10:1 30:1
STROKE FOR INPUT REV.	FAST SPEED NORMAL SPEED SLOW SPEED	1,80 0,90 0,30
EFFICIENCY	FAST SPEED NORMAL SPEED SLOW SPEED	19,5% 18,2% 16,9%
JACK WEIGHT (Kg)		27
SCREW WEIGHT TPN X 100 mm (Kg)		1,7
CASE MATERIAL		G25
GREASE QTY (Kg)	1,0	
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	



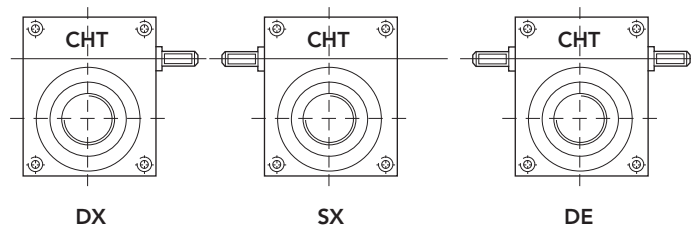
TRANSLATING SCREW

SERIES CHS 5 TS - 10000 daN · TPN 55x9



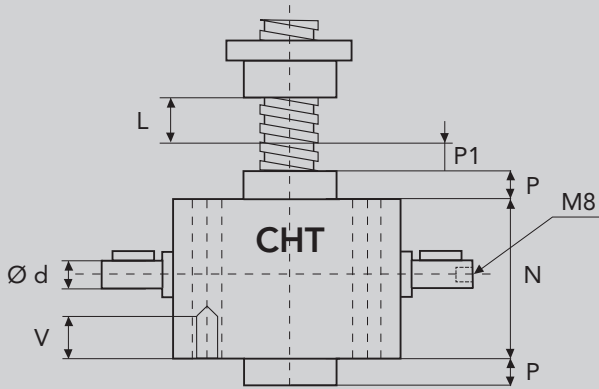
	A	B	B1	B2	C	E	F	G	H
CHS5	134	175	60	115	87,5	-	47,5	68	216
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS5	70	150	40	25	40	25	M20	90	55x9

* tapped holes on request

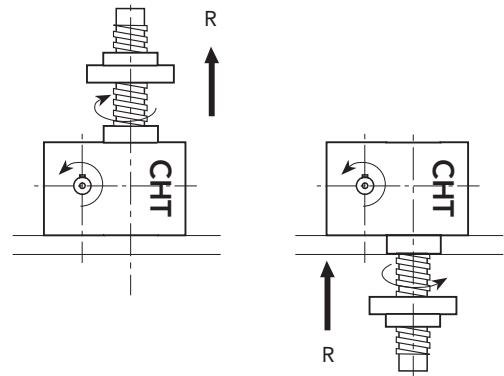
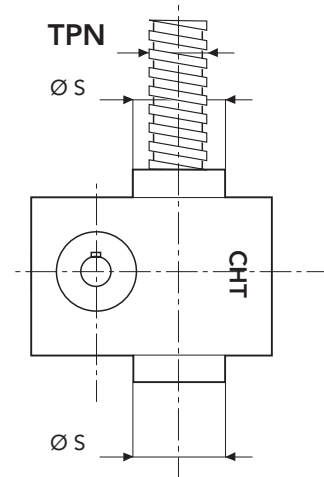
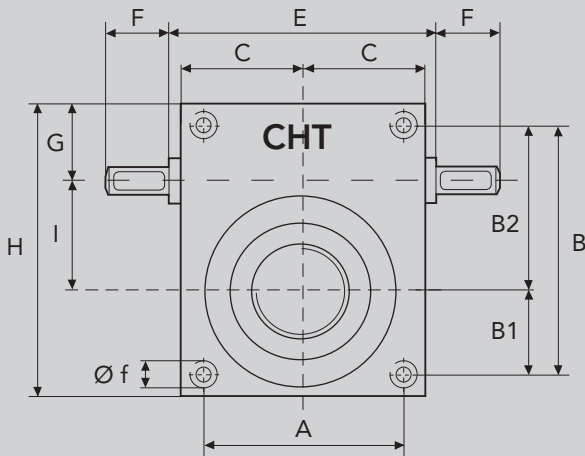




SERIES CHS 5 RS · ROTATING SCREW



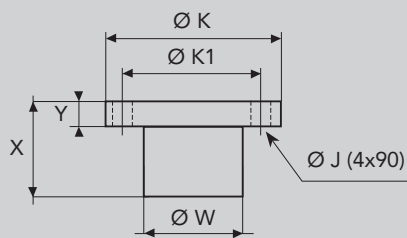
L = STROKE



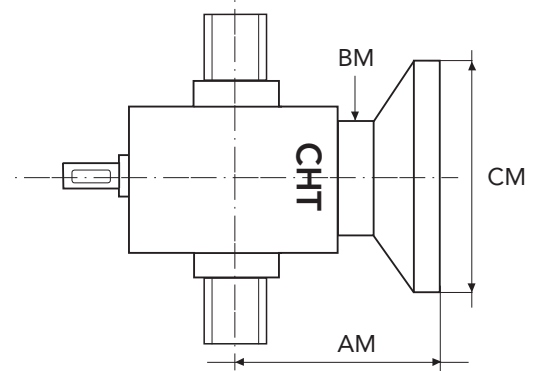
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

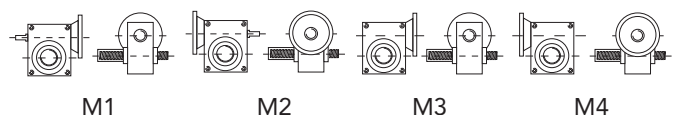


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS5	100	20	76	130	100	13



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 80	B5	200	145	108
	B14	120		
GR. 90	B5	200	145	108
	B14	140		
GR. 100/112	B5	250	145	108
	B14	160		

CONFIGURATION





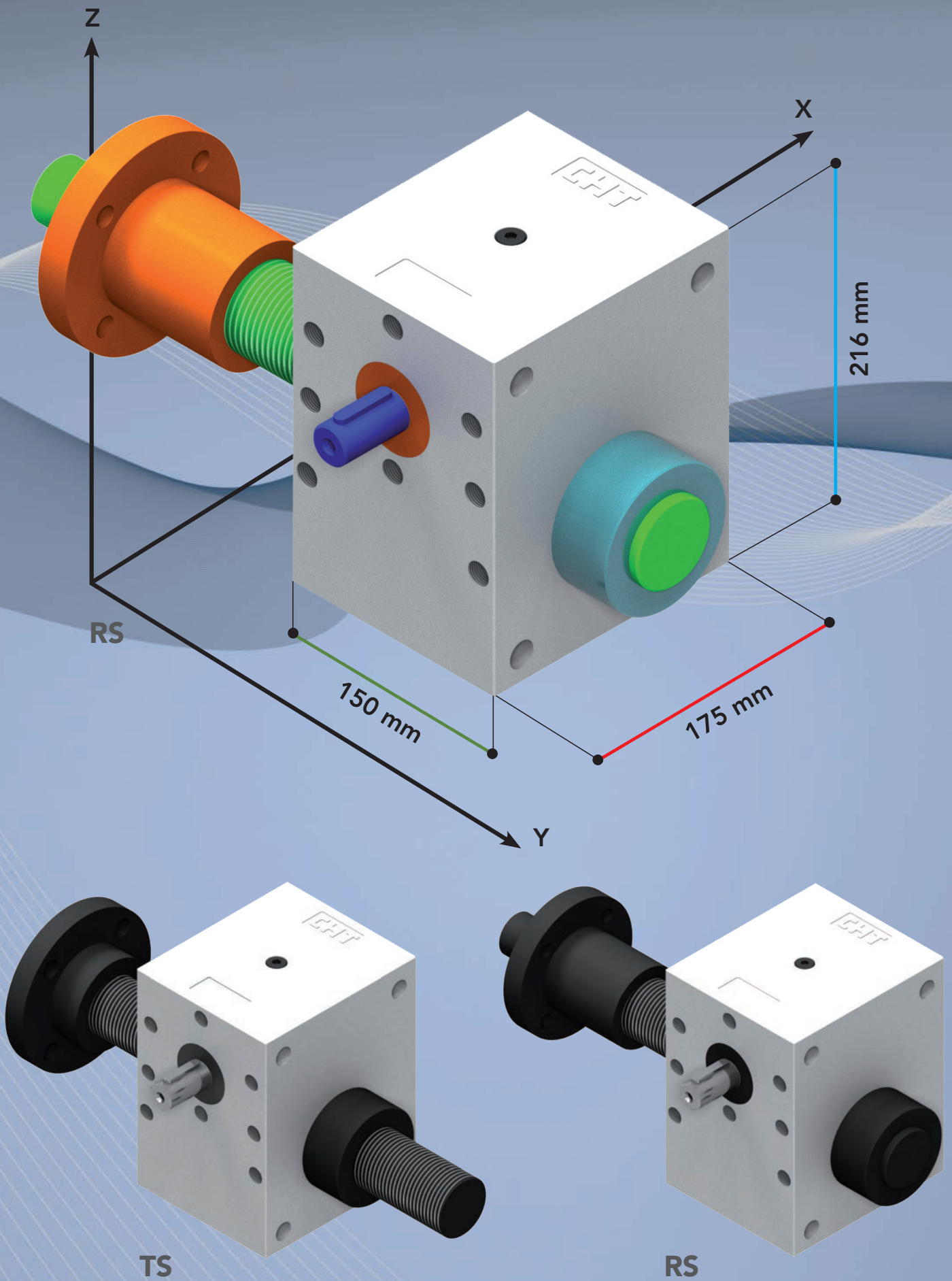
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiavalli technical
department

load in daN			10000		5000		3000		1000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	2700	1500	23,09	14,70	11,54	7,35	6,93	4,41	2,31	1,47
	1800	1000	15,39	14,70	7,70	7,35	4,62	4,41	1,54	1,47
	1350	750	11,54	14,70	5,77	7,35	3,46	4,41	1,15	1,47
	90	50	0,77	14,70	0,38	7,35	0,23	4,41	0,08	1,47

load in daN			10000		5000		3000		1000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
10	1350	1500	12,37	7,87	6,18	3,94	3,71	2,36	1,24	0,79
	900	1000	8,25	7,87	4,12	3,94	2,47	2,36	0,82	0,79
	675	750	6,18	7,87	3,09	3,94	1,86	2,36	0,62	0,79
	45	50	0,41	7,87	0,21	3,94	0,12	2,36	0,07	0,79

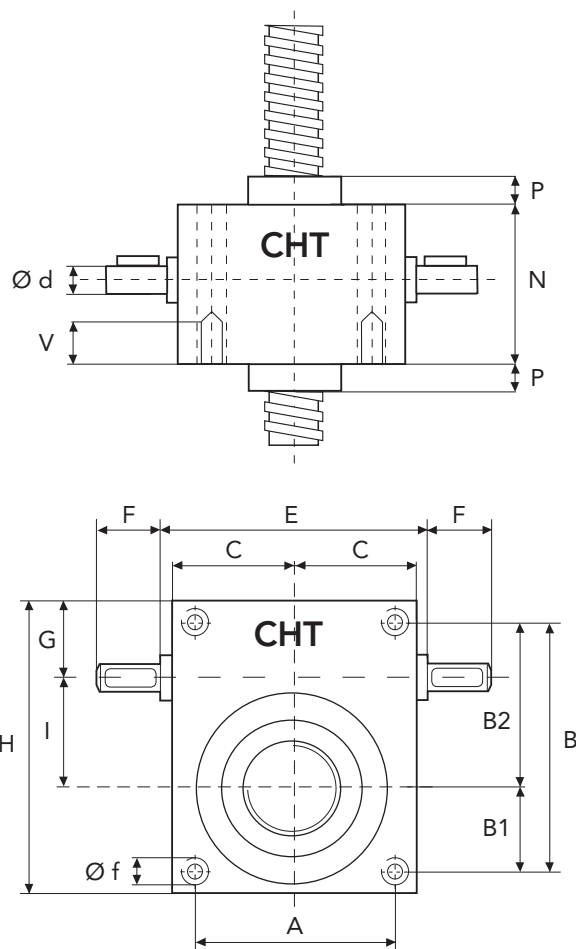
load in daN			10000		5000		3000		1000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
30	450	1500	4,44	2,83	2,22	1,41	1,33	0,85	0,44	0,28
	300	1000	2,96	2,83	1,48	1,41	0,89	0,85	0,30	0,28
	225	750	2,22	2,83	1,11	1,41	0,67	0,85	0,22	0,28
	15	50	0,15	2,83	0,07	1,41	0,07	0,85	0,07	0,28





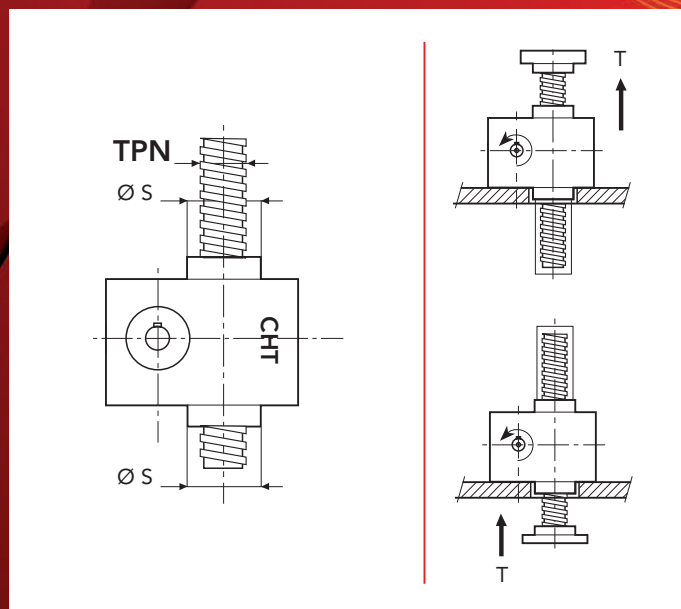
SERIES CHS 6 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 6
LOAD	daN (Kg)	15000
TPN SCREW	DIAMETER mm PITCH mm	60 9
GEAR RATIOS	FAST SPEED NORMAL SPEED SLOW SPEED	5:1 10:1 30:1
STROKE FOR INPUT REV.	FAST SPEED NORMAL SPEED SLOW SPEED	1,80 0,90 0,30
EFFICIENCY	FAST SPEED NORMAL SPEED SLOW SPEED	19,3% 18,0% 16,5%
JACK WEIGHT (Kg)		29
SCREW WEIGHT TPN X 100 mm (Kg)		2
CASE MATERIAL		G25
GREASE QTY (Kg)		1
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	

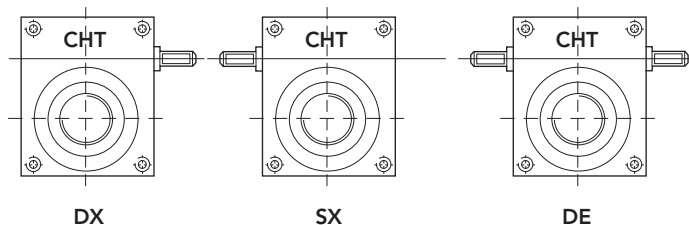


TRANSLATING SCREW

SERIES CHS 6 TS · 15000 daN · TPN 60x9

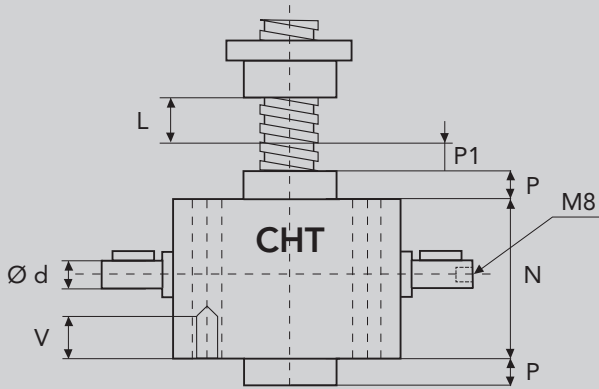


	A	B	B1	B2	C	E	F	G	H
CHS6	134	175	60	115	87,5	-	47,5	68	216
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS6	70	150	40	25	40	25	M20	90	60x9

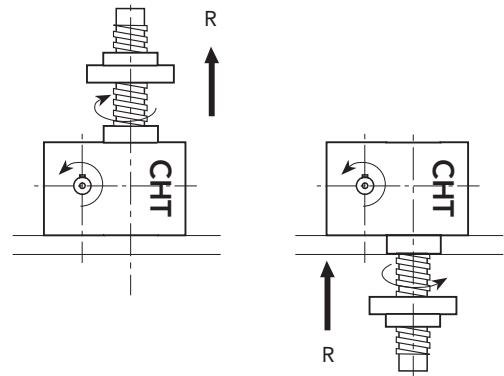
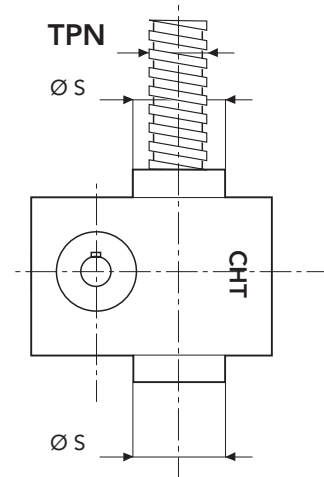
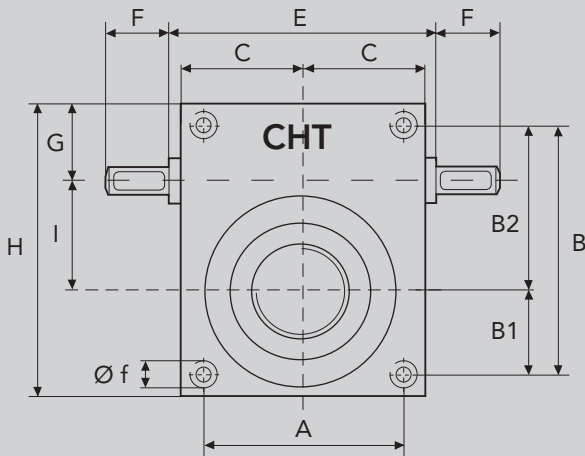




SERIES CHS 6 RS · ROTATING SCREW



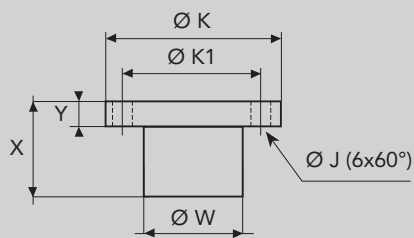
L = STROKE



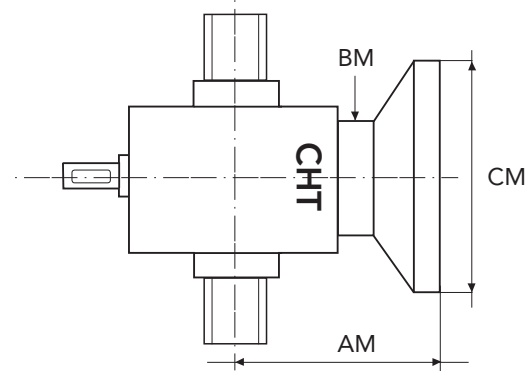
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

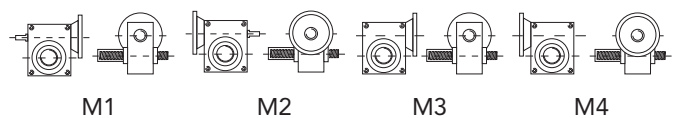


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS6	120	25	80	110	92	10,5



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 80	B5	200	140	108
	B14	120		
GR. 90	B5	200	140	108
	B14	140		
GR. 100/112	B5	250	140	108
	B14	160		

CONFIGURATION





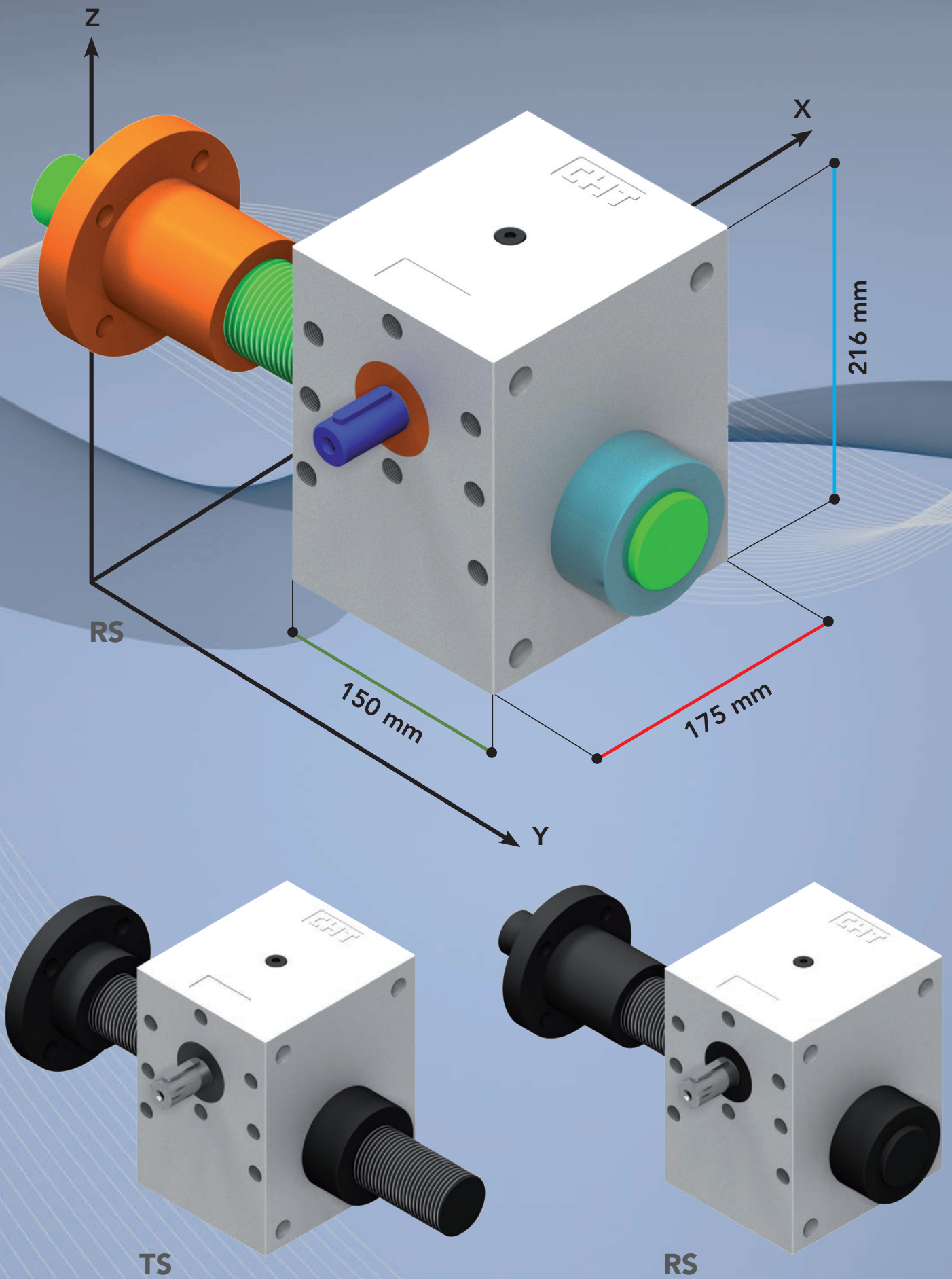
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiaravalli technical
department

load in daN			15000		7500		5000		2000	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
5	2700	1500	35,17	22,39	17,59	11,20	11,72	7,46	4,69	2,99
	1800	1000	23,45	22,39	11,72	11,20	7,82	7,46	3,13	2,99
	1350	750	17,59	22,39	8,79	11,20	5,86	7,46	2,34	2,99
	90	50	1,17	22,39	0,59	11,20	0,39	7,46	0,16	2,99

load in daN			15000		7500		5000		2000	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
10	1350	1500	18,76	11,94	9,38	5,97	6,25	3,98	2,50	1,59
	900	1000	12,51	11,94	6,25	5,97	4,17	3,98	1,67	1,59
	675	750	9,38	11,94	4,69	5,97	3,13	3,98	1,25	1,59
	45	50	0,63	11,94	0,31	5,97	0,21	3,98	0,07	1,59

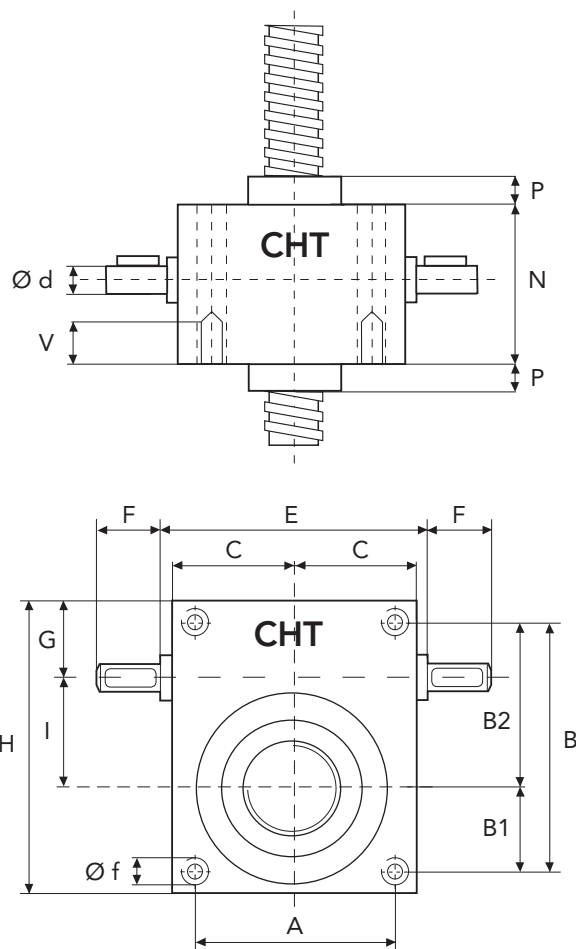
load in daN			15000		7500		5000		2000	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
30	450	1500	6,70	4,27	3,35	2,13	2,23	1,42	0,89	0,57
	300	1000	4,47	4,27	2,23	2,13	1,49	1,42	0,60	0,57
	225	750	3,35	4,27	1,67	2,13	1,12	1,42	0,45	0,57
	15	50	0,22	4,27	0,11	2,13	0,07	1,42	0,07	0,57





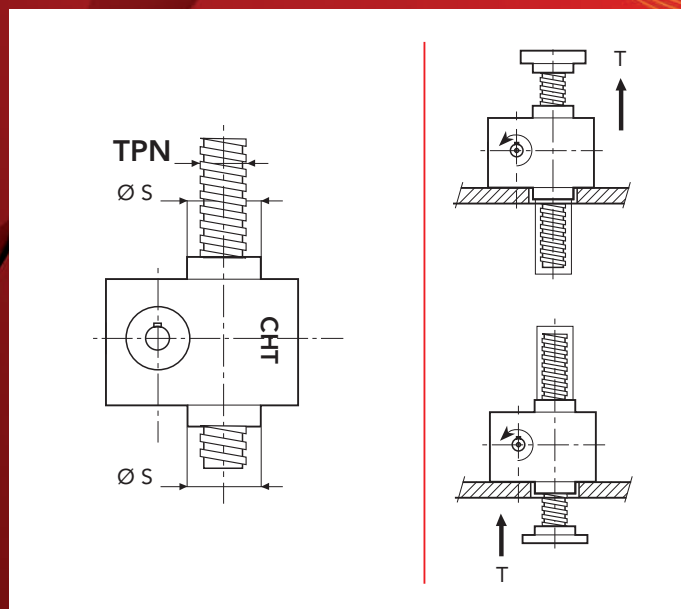
SERIES CHS 7 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 7
LOAD	daN (Kg)	20000
TPN SCREW	DIAMETER mm	70
	PITCH mm	10
GEAR RATIOS	FAST SPEED	5:1
	NORMAL SPEED	10:1
	SLOW SPEED	30:1
STROKE FOR INPUT REV.	FAST SPEED	2
	NORMAL SPEED	1
	SLOW SPEED	0,33
EFFICIENCY	FAST SPEED	18,5%
	NORMAL SPEED	17,5%
	SLOW SPEED	16%
JACK WEIGHT (Kg)		54
SCREW WEIGHT TPN X 100 mm (Kg)		2,8
CASE MATERIAL		G25
GREASE QTY (Kg)		1,5
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	

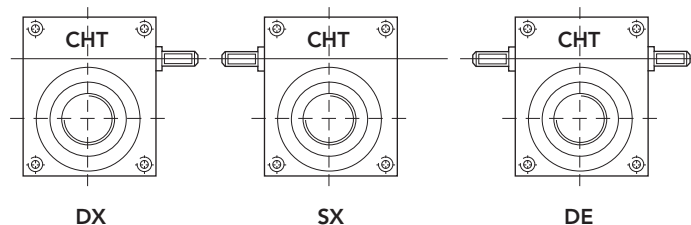


TRANSLATING SCREW

SERIES CHS 7 TS · 20000 daN · TPN 70x10

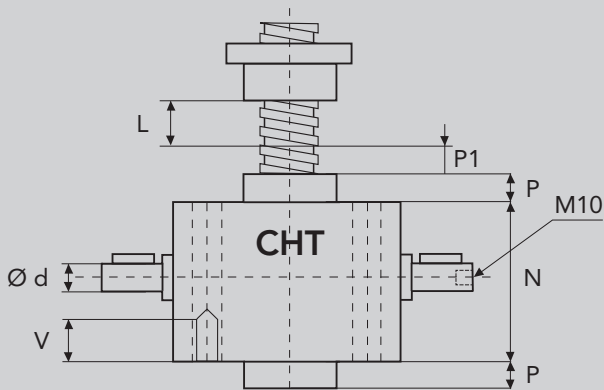


	A	B	B1	B2	C	E	F	G	H
CHS7	180	230	90	140	116	-	60	76	282
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS7	90	176	40	30	45	30	M30	120	70x10

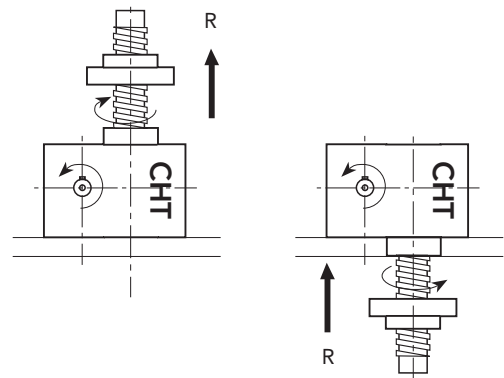
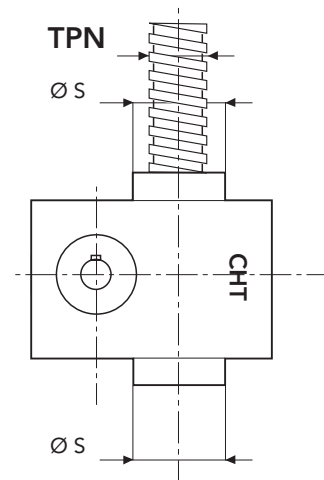
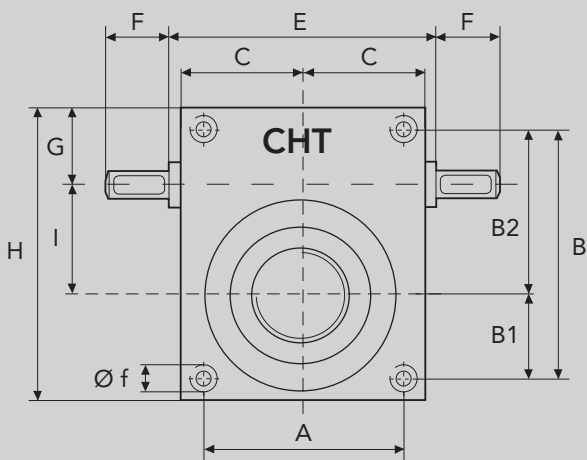




SERIES CHS 7 RS · ROTATING SCREW



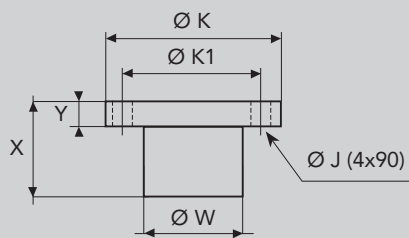
L = STROKE



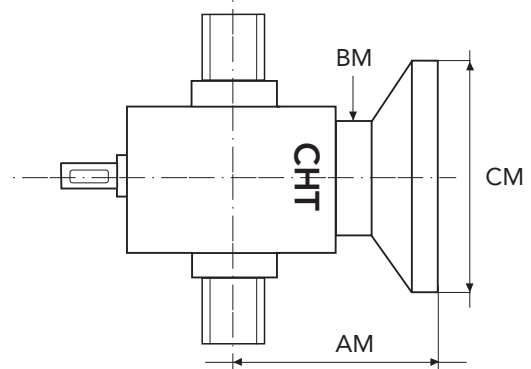
ROTATING SCREW

MOTOR ADAPTOR

BRONZE NUT

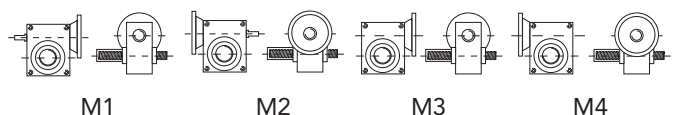


	X	Y	Ø W	Ø K	Ø K1	Ø J
CHS7	105	30	100	180	140	18



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 90	B5	200		
GR. 100/112	B5	250	200	130
	B14	160		
GR. 132	B5	300		
	B14	200		

CONFIGURATION



SERIES CHS 7 RS - 20000 daN · TPN 70x10



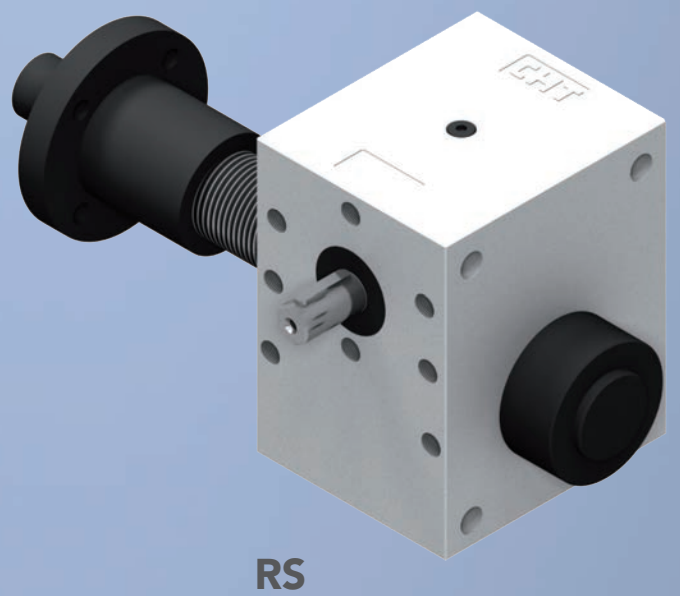
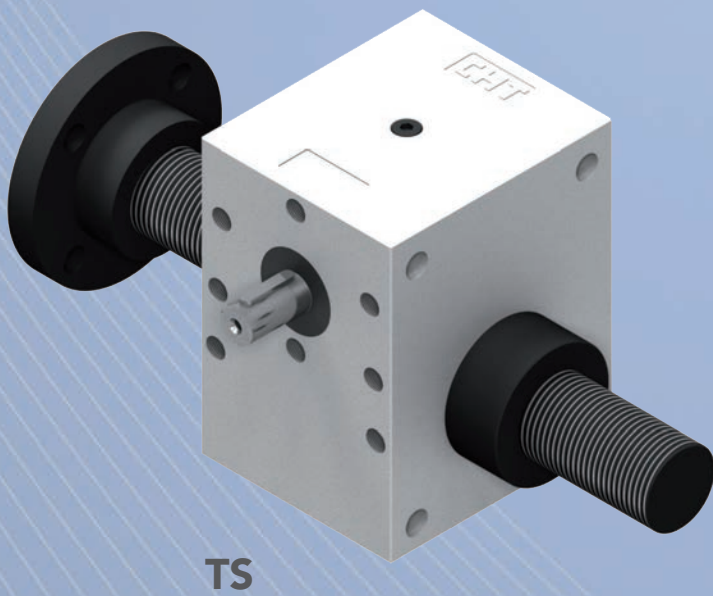
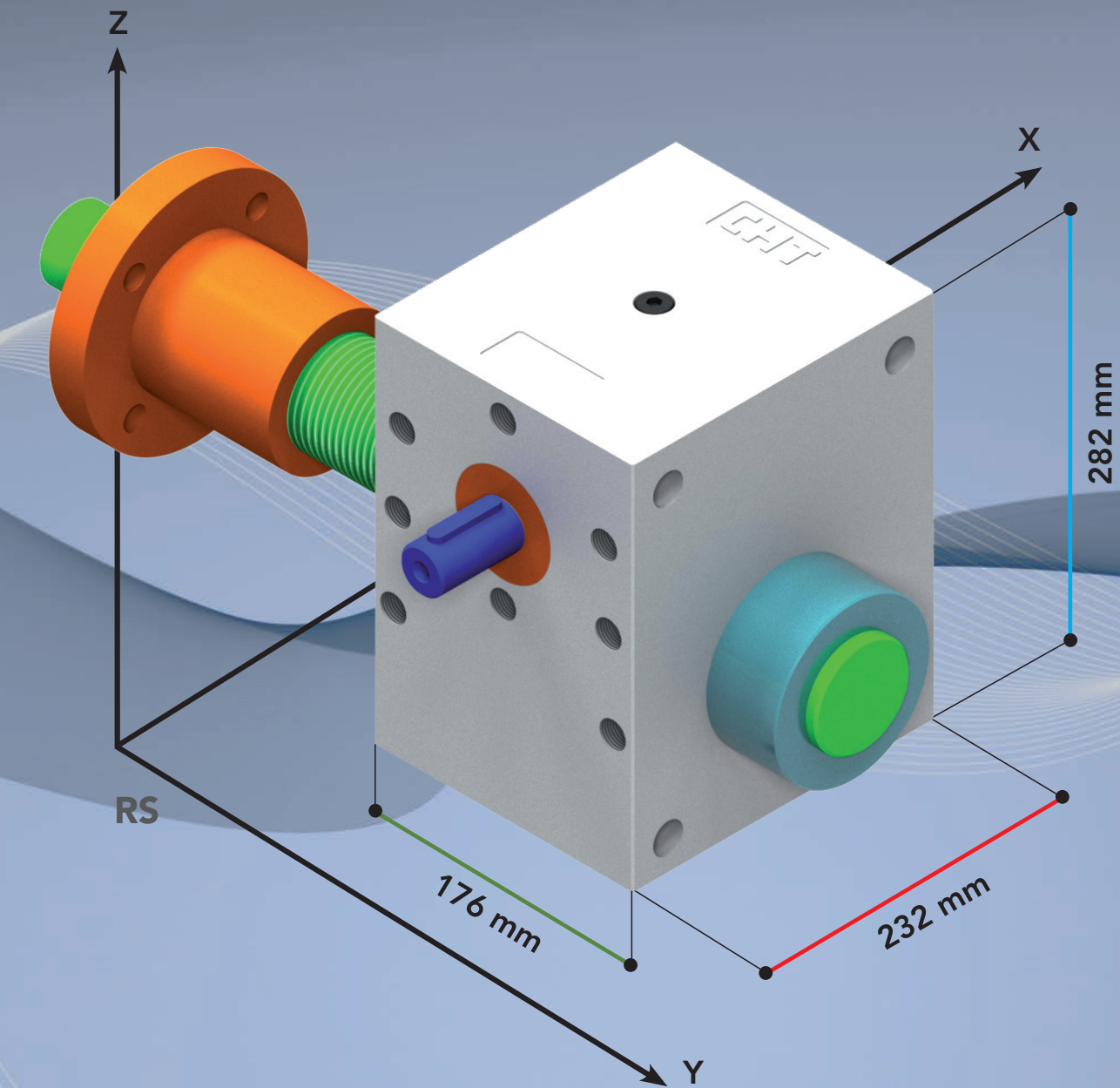
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiaravalli technical
department

load in daN			20000		15000		7500		2500	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
5	2700	1500	52,65	33,52	39,49	25,14	19,75	12,57	6,58	4,19
	1800	1000	35,10	33,52	26,33	25,14	13,16	12,57	4,39	4,19
	1350	750	26,33	33,52	19,75	25,14	9,87	12,57	3,29	4,19
	90	50	1,76	33,52	1,32	25,14	0,66	12,57	0,22	4,19

load in daN			20000		15000		7500		2500	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
10	1350	1500	27,95	17,79	20,96	13,34	10,48	6,67	3,49	2,22
	900	1000	18,63	17,79	13,97	13,34	6,99	6,67	2,33	2,22
	675	750	13,97	17,79	10,48	13,34	5,24	6,67	1,75	2,22
	45	50	0,93	17,79	0,70	13,34	0,35	6,67	0,07	2,22

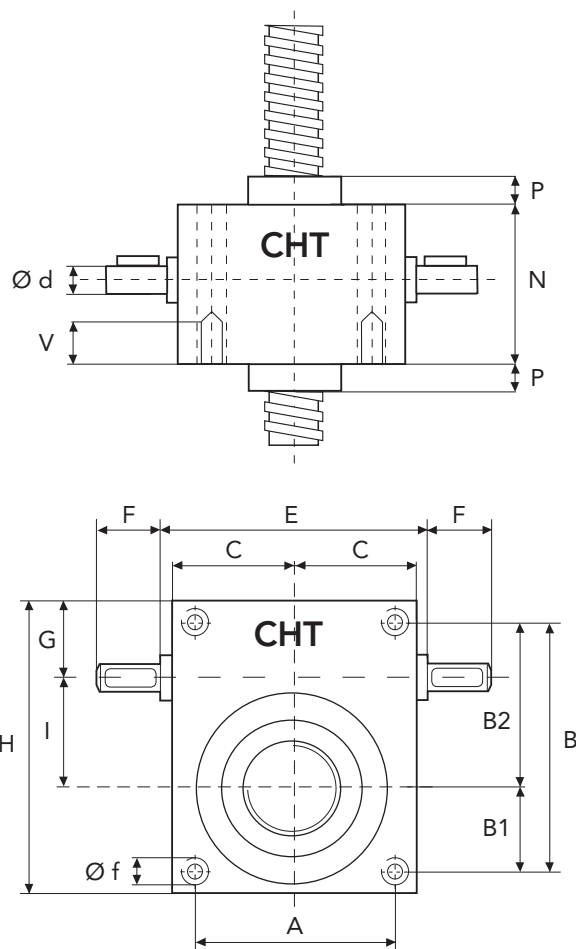
load in daN			20000		15000		7500		2500	
ratio	lifting speed	input speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
	mm		Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
30	450	1500	9,98	6,36	7,49	4,77	3,74	2,38	1,25	0,79
	300	1000	6,66	6,36	4,99	4,77	2,50	2,38	0,83	0,79
	225	750	4,99	6,36	3,74	4,77	1,87	2,38	0,62	0,79
	15	50	0,33	6,36	0,25	4,77	0,07	2,38	0,07	0,79





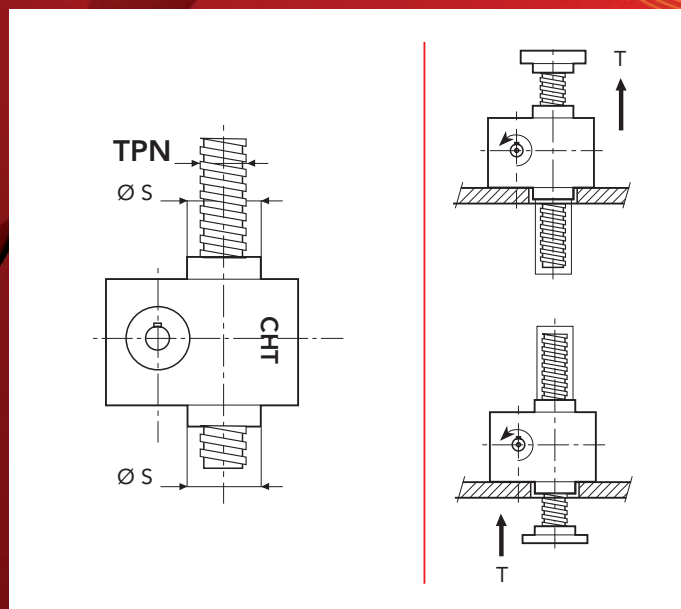
SERIES CHS 8 TS · TRANSLATING SCREW

SCREW JACK MODEL		CHS 8
LOAD	daN (Kg)	25000
TPN SCREW	DIAMETER mm PITCH mm	80 10
GEAR RATIOS	FAST SPEED NORMAL SPEED SLOW SPEED	5:1 10:1 30:1
STROKE FOR INPUT REV.	FAST SPEED NORMAL SPEED SLOW SPEED	2 1 0,33
EFFICIENCY	FAST SPEED NORMAL SPEED SLOW SPEED	18,5% 17,5% 16%
JACK WEIGHT (Kg)		54
SCREW WEIGHT TPN X 100 mm (Kg)		3,2
CASE MATERIAL		G25
GREASE QTY (Kg)		1,5
GREASE TYPE	AGIP GR MU EP2	
OPERATING TEMPERATURE	-5° C +80° C	

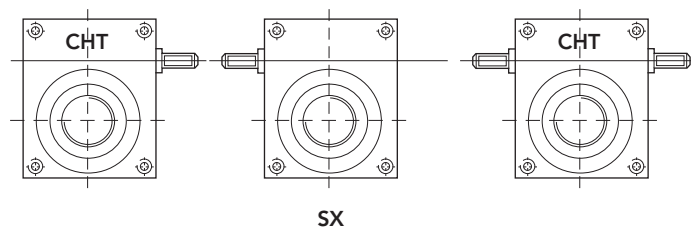


TRANSLATING SCREW

SERIES CHS 8 TS - 25000 daN · TPN 80x10

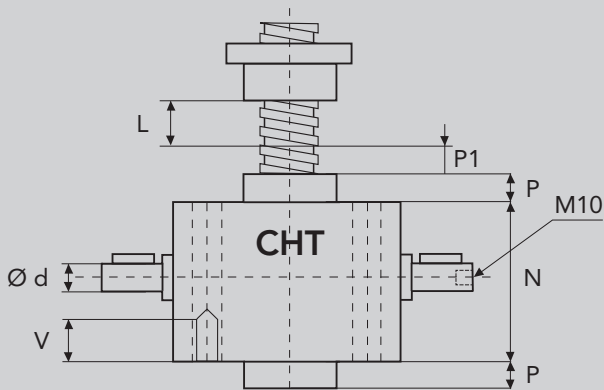


	A	B	B1	B2	C	E	F	G	H
CHS8	180	230	90	140	116	-	60	76	282
	I	N	P	P1	V	$\varnothing d$	$\varnothing f$	$\varnothing s$	TPN
CHS8	90	176	40	30	45	30	M30	120	80x10

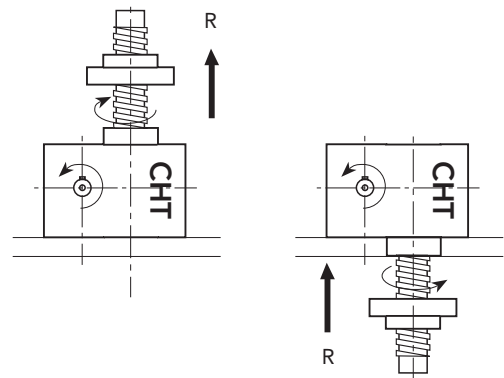
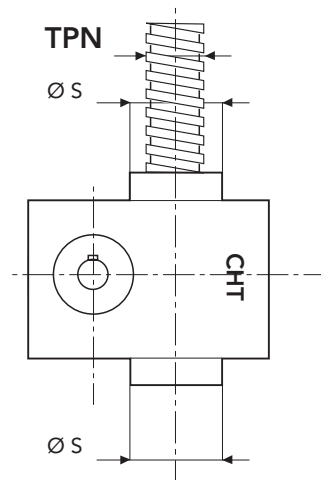
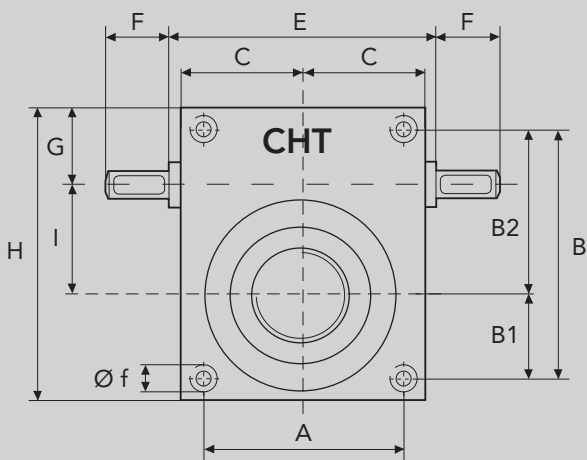




SERIES CHS 8 RS · ROTATING SCREW

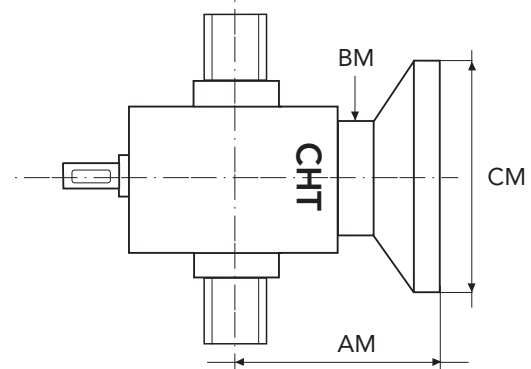
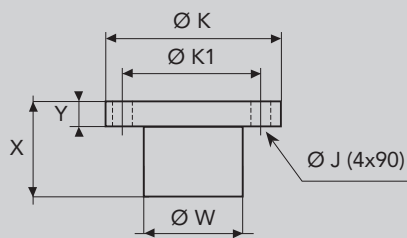


L = STROKE



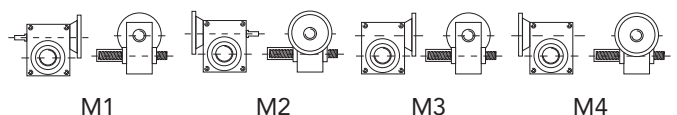
ROTATING SCREW

MOTOR ADAPTOR



MOTOR	FLANGE TYPE	CM	AM	BM
GR. 90	B5	200		
GR. 100/112	B5	250	200	130
	B14	160		
GR. 132	B5	300		
	B14	200		

CONFIGURATION



	X	Y	ØW	ØK	ØK1	ØJ
CHS8	110	30	110	190	150	18

SERIES CHS 8 RS - 25000 daN · TPN 80x10



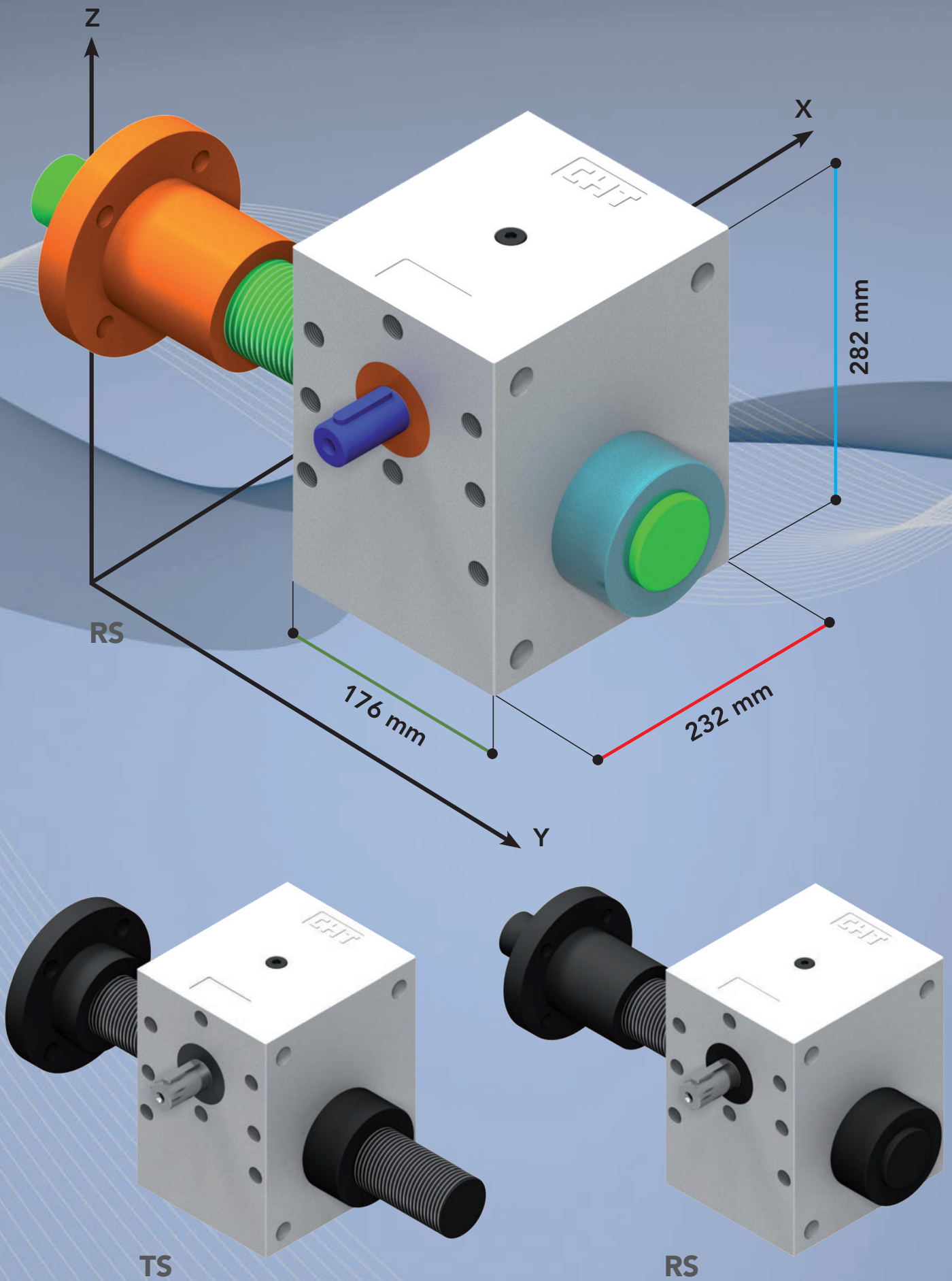
SCREW-JACKS WITH BALL SCREWS FOR TRANSLATING SCREW BY INTEGRATED NUT

Please contact
Chiavalli technical
department

load in daN			25000		20000		10000		3000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
5	2700	1500	67,60	43,04	54,08	34,43	27,04	17,21	8,11	5,16
	1800	1000	45,06	43,04	36,05	34,43	18,03	17,21	5,41	5,16
	1350	750	33,80	43,04	27,04	34,43	13,52	17,21	4,06	5,16
	90	50	2,25	43,04	1,80	34,43	0,90	17,21	0,27	5,16

load in daN			25000		20000		10000		3000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
10	1350	1500	35,73	22,75	28,58	18,20	14,29	9,10	4,29	2,73
	900	1000	23,82	22,75	19,06	18,20	9,53	9,10	2,86	2,73
	675	750	17,86	22,75	14,29	18,20	7,15	9,10	2,14	2,73
	45	50	1,19	22,75	0,95	18,20	0,48	9,10	0,07	2,73

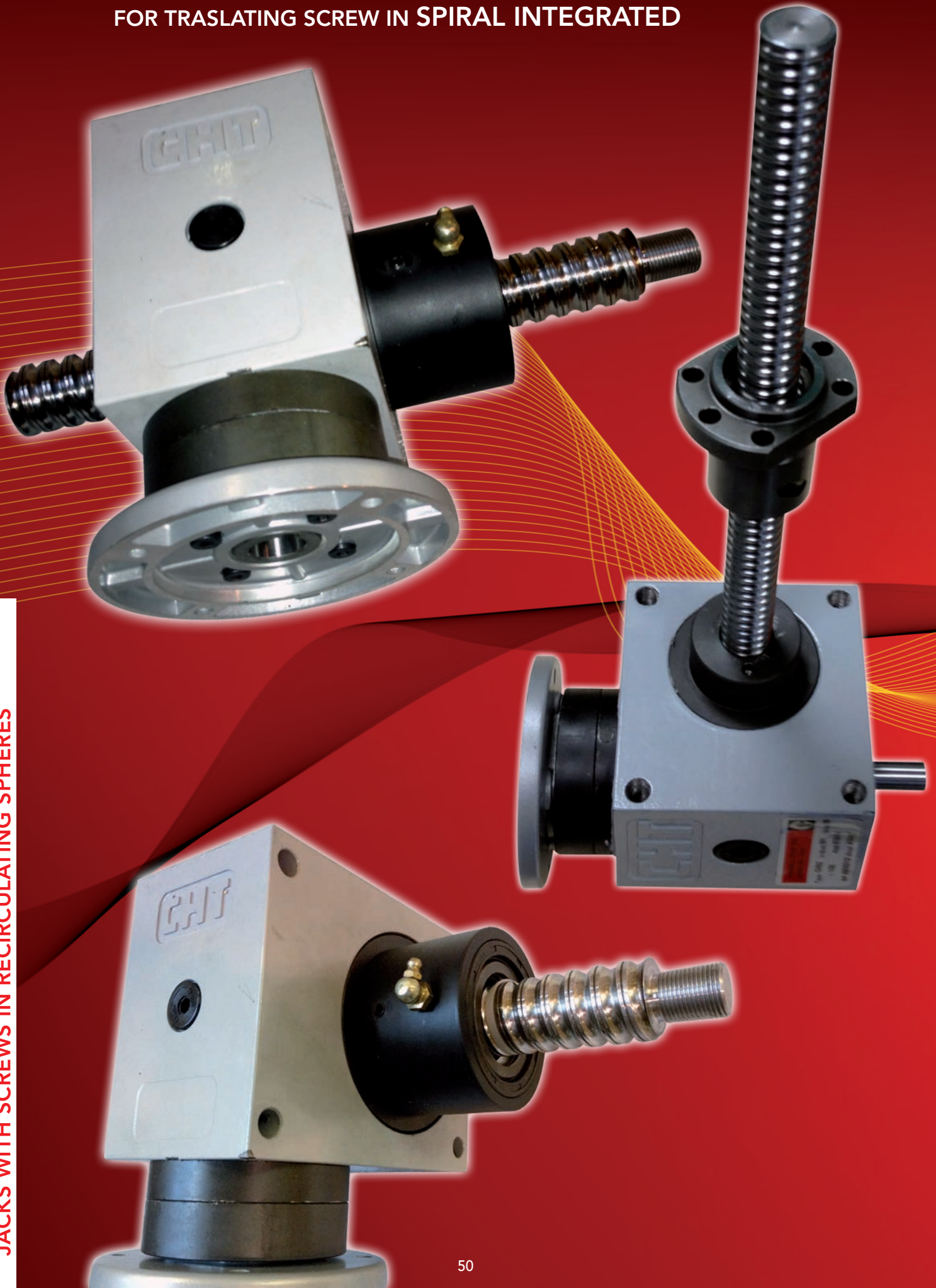
load in daN			25000		20000		10000		3000	
ratio	lifting speed mm	input speed	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm	Pn Kw	Mt daNm
30	450	1500	12,63	8,04	10,11	6,43	5,05	3,22	1,52	0,97
	300	1000	8,42	8,04	6,74	6,43	3,37	3,22	1,01	0,97
	225	750	6,32	8,04	5,05	6,43	2,53	3,22	0,76	0,97
	15	50	0,42	8,04	0,34	6,43	0,07	3,22	0,07	0,97





JACKS WITH SCREWS IN RECIRCULATING SPHERES

FOR TRASLATING SCREW IN SPIRAL INTEGRATED



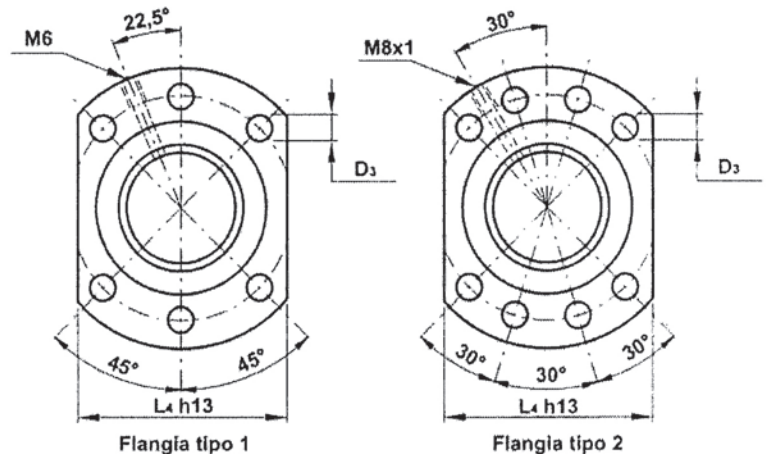
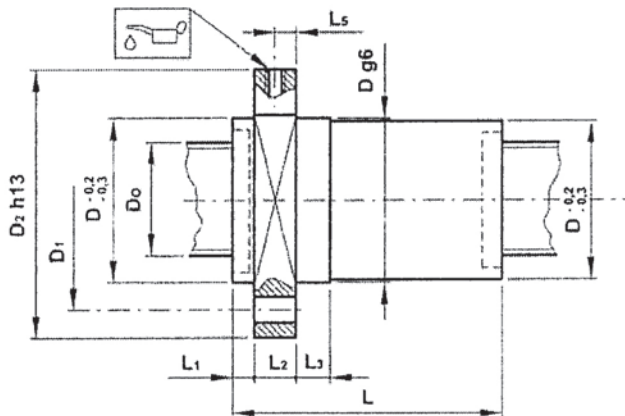
JACKS WITH SCREWS IN RECIRCULATING SPHERES



FLANGED SINGLE NUT TYPE DIN 69051/5 FOR ROLLED SCREWS

TYPE	d_o	P_h	D_w	N	D	D_1	D_2	D_3	L	L_1	L_2	L_3	L_4	L_5	H	C_o	C_a	R_s
CHN1405	14	5	3,175	2	24	36	46	5,5	44	5	10	10	40	5	1	846	730	14
CHN1605	16	5	3,175	3	28	38	48	5,5	50	5	10	10	40	5	1	1191	1160	21
CHN1610		10	3,175	3	28	38	48	5,5	55	5	10	10	40	5	1	1191	1160	21
CHN1616		16	3	2	28	38	48	5,5	49	4	12	15	40	6	1	887	783	16
CHN2005	20	5	3,175	4	36	47	58	6,6	54	5	10	10	44	5	1	1985	1525	33
CHN2505	25	5	3,175	4	40	51	62	6,6	54	5	10	10	48	5	1	2691	1626	40
CHN2506		6	3,969	4	40	51	62	6,6	65	6	10	10	48	5	1	3105	2439	41
CHN2510		10	4,762	4	40	51	62	6,6	85	6	10	10	48	5	1	3346	3242	40
CHN2525		25	3,969	2	45	60	73	6,6	72	6	12	15	62	6	1	2383	1872	25
CHN2525-B		25	3,969	3	40	51	62	6,6	95	/	12	30	48	6	1	2940	2458	33
CHN3205	32	5	3,175	4	50	65	80	9	54	6	12	10	62	6	1	3692	1747	50
CHN3206		6	3,969	4	50	65	80	9	65	6	12	10	62	6	1	4221	2618	51
CHN3210		10	6,35	4	50	65	80	9	93	6	12	16	62	6	1	5876	5254	51
CHN3232		32	3,969	3	50	65	80	9	120	/	13	40	62	6,5	1	4270	2642	41
CHN4005	40	5	3,175	5	63	78	93	9	62	6	14	10	70	7	2	5722	2204	71
CHN4010		10	6,35	5	63	78	93	9	106	7	14	16	70	7	2	9377	6611	75
CHN4040		40	6,35	2	70	85	100	9	100	7	14	16	80	7	2	4875	3437	39
CHN5010	50	10	6,35	5	75	93	110	11	108	7	16	16	85	8	2	12714	7050	92

N Turns of spheres
H Type flange
d_o Nominal diameter (mm)
P_h Step (mm)
D_w Diameter spheres (mm)
C_o Static load capacity (daN)
C_a Dynamic load capacity (daN)
R_s Stiffness spheres (daN/μm)





CHS 2 VRS

Ø 16 SCREW DIAMETER

load in daN		step 5	step 5		step 5		step 16	step 16		step 16	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
5	1500	1500	0,20	0,12	0,10	0,06	4800	0,38	0,24	0,19	0,12
	1000	1000	0,13	0,12	0,07	0,06	3200	0,25	0,24	0,13	0,12
	750	750	0,10	0,12	0,05	0,06	2400	0,19	0,24	0,09	0,12
	50	50	0,01	0,12	0,00	0,06	160	0,01	0,24	0,01	0,12

load in daN		step 5	step 5		step 5		step 16	step 16		step 16	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
10	1500	1350	0,11	0,07	0,05	0,03	1440	0,20	0,13	0,10	0,06
	1000	900	0,07	0,07	0,04	0,03	1600	0,13	0,13	0,07	0,06
	750	675	0,05	0,07	0,03	0,03	1200	0,10	0,13	0,05	0,06
	50	45	0,00	0,07	0,00	0,03	80	0,01	0,13	0,07	0,06

load in daN		step 5	step 5		step 5		step 16	step 16		step 16	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
30	1500	450	0,04	0,02	0,02	0,01	800	0,07	0,05	0,04	0,02
	1000	300	0,03	0,02	0,01	0,01	533	0,05	0,05	0,02	0,02
	750	225	0,02	0,02	0,01	0,01	400	0,04	0,05	0,02	0,02
	50	15	0,00	0,02	0,00	0,01	27	0,00	0,05	0,00	0,02



CHS 3 VRS

Ø 32 SCREW DIAMETER

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
5	1500	1500	0,39	0,25	0,20	0,12	3000	1,18	0,75	0,59	0,37
	1000	1000	0,26	0,25	0,13	0,12	2000	0,78	0,75	0,39	0,37
	750	750	0,20	0,25	0,10	0,12	1500	0,59	0,75	0,29	0,37
	50	50	0,01	0,25	0,01	0,12	100	0,04	0,75	0,02	0,37



CHS 3 VRS

Ø 32 SCREW DIAMETER

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
10	1500	750	0,11	0,07	0,05	0,03	1500	0,20	0,13	0,10	0,06
	1000	500	0,07	0,07	0,04	0,03	1000	0,13	0,13	0,07	0,06
	750	375	0,05	0,07	0,03	0,03	750	0,10	0,13	0,05	0,06
	50	25	0,00	0,07	0,00	0,03	50	0,01	0,13	0,00	0,06

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
30	1500	250	0,08	0,05	0,04	0,02	500	0,23	0,14	0,11	0,07
	1000	167	0,05	0,05	0,03	0,02	333	0,15	0,14	0,08	0,07
	750	125	0,04	0,05	0,02	0,02	250	0,11	0,14	0,06	0,07
	50	8	0,00	0,05	0,00	0,02	17	0,01	0,14	0,00	0,07



CHS 4 VRS

Ø 40 SCREW DIAMETER

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
5	1500	1500	0,39	0,25	0,20	0,12	3000	1,96	1,25	1,18	0,75
	1000	1000	0,26	0,25	0,13	0,12	2000	1,31	1,25	0,78	0,75
	750	750	0,20	0,25	0,10	0,12	1500	0,98	1,25	0,59	0,75
	50	50	0,01	0,25	0,01	0,12	100	0,07	1,25	0,04	0,75

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
10	1500	750	0,21	0,13	0,11	0,07	1500	1,05	0,67	0,63	0,40
	1000	500	0,14	0,13	0,07	0,07	1000	0,70	0,67	0,42	0,40
	750	375	0,11	0,13	0,05	0,07	750	0,53	0,67	0,32	0,40
	50	25	0,01	0,13	0,00	0,07	50	0,04	0,67	0,02	0,40

CHS 3 VRS - CHS 4 VRS



CHS 4 VRS

Ø 40 SCREW DIAMETER

load in daN		step 5	step 5		step 5		step 10	step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	lifting speed	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	mm	Kw	daNm	Kw	daNm
30	1500	250	0,08	0,05	0,04	0,02	500	0,38	0,24	0,23	0,14
	1000	167	0,05	0,05	0,03	0,02	333	0,25	0,24	0,15	0,14
	750	125	0,04	0,05	0,02	0,02	250	0,19	0,24	0,11	0,14
	50	8	0,00	0,05	0,00	0,02	17	0,01	0,24	0,01	0,14



CHS 5 VRS

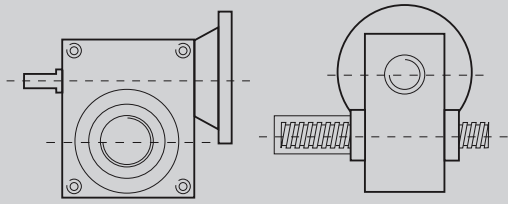
Ø 50 SCREW DIAMETER

load in daN			step 10		step 10		step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
5	1500	3000	2,35	1,50	1,57	1,00	0,78	0,50	0,39	0,25
	1000	2000	1,57	1,50	1,05	1,00	0,52	0,50	0,26	0,25
	750	1500	1,18	1,50	0,78	1,00	0,39	0,50	0,20	0,25
	50	100	0,08	1,50	0,05	1,00	0,03	0,50	0,01	0,25

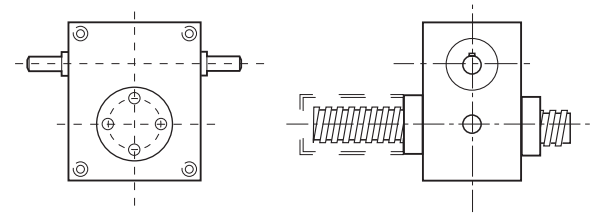
load in daN			step 10		step 10		step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
10	1500	1500	1,26	0,80	0,84	0,54	0,42	0,27	0,21	0,13
	1000	1000	0,84	0,80	0,56	0,54	0,28	0,27	0,14	0,13
	750	750	0,63	0,80	0,42	0,54	0,21	0,27	0,11	0,13
	50	50	0,04	0,80	0,03	0,54	0,01	0,27	0,01	0,13

load in daN			step 10		step 10		step 10		step 10	
ratio	input speed	lifting speed	Pn	Mt	Pn	Mt	Pn	Mt	Pn	Mt
		mm	Kw	daNm	Kw	daNm	Kw	daNm	Kw	daNm
30	1500	500	0,45	0,29	0,30	0,19	0,15	0,10	0,08	0,05
	1000	333	0,30	0,29	0,20	0,19	0,10	0,10	0,05	0,05
	750	250	0,23	0,29	0,15	0,19	0,08	0,10	0,04	0,05
	50	17	0,02	0,29	0,01	0,19	0,01	0,10	0,00	0,05

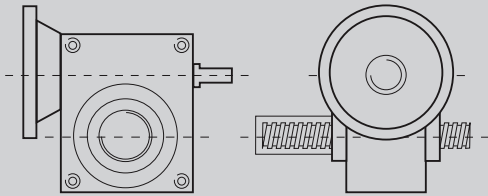
CHS 4 VRS - CHS 5 VRS



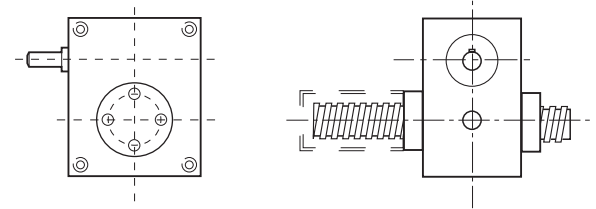
M1



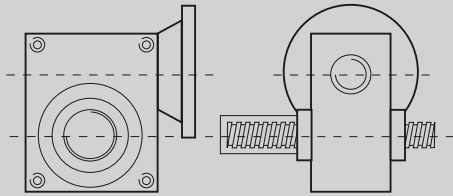
DE



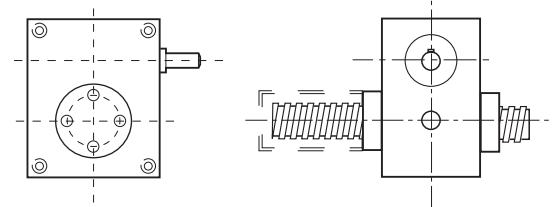
M2



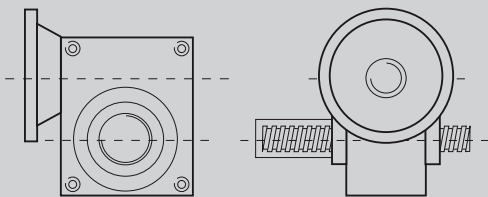
SX



M3



DX



M4

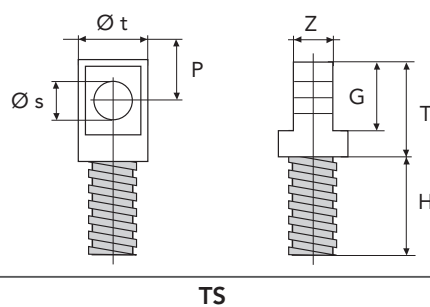
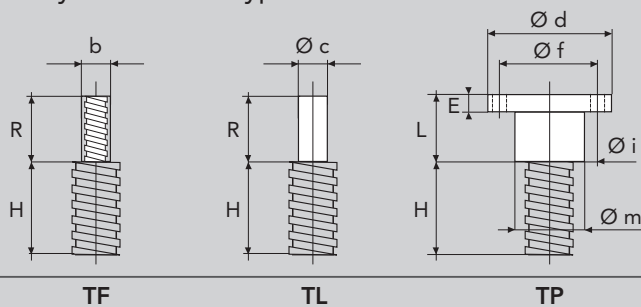


OPTIONALS

- PE ELASTIC BELLOW COVERING
- PR PROTECTION TUBE
- AR BACK STOP
- AS STOP PLATE
- FC LIMIT SWITCH
- PO SWAYING PROTECTION TUBE
- AM OVERSIZE SCREW
- CU WEARING TEST OF THE NUTS
- RG RECOVERY OF SLACK
- CS SAFETY NUTS
- FCO FLANGE FOR PIVOT GEARBOX
- VRS BALLSCREW
- LO OIL LUBRICATION
- CF CASE WITH THREAD FIXED HOLE
- OX INOX LIFTING SCREW

SCREW ENDS

For rotating screw **RS**
only screw ends type **TL**



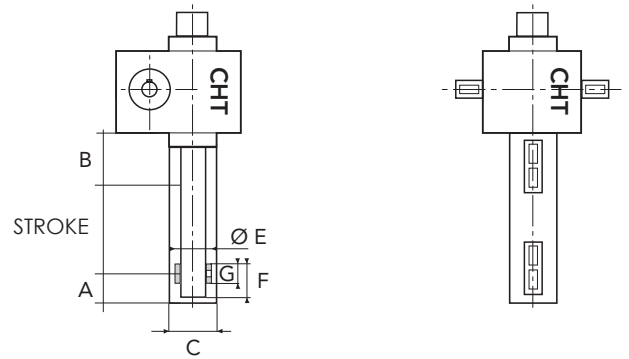
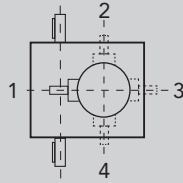
* N° 4 at 90° Ø c = + 0 - 0,10

TYPE	H	R	b	L	E	P	G	T	Z	Øc	Ød	Øf	Øi*	Øm	Øs	Øt
CHS 1	15	20	12 x 1.5	14	8	20	40	70	20	12	54	40	7	26	16	30
CHS 2	15	20	14 x 1.5	21	8	20	40	75	25	15	79	60	11	39	20	38
CHS 3	20	30	20 x 2.5	23	10	25	50	95	30	20	89	67	11	46	25	48
CHS 4	25	30	30 x 3.5	30	15	35	70	125	40	30	109	85	13	60	35	68
CHS 5	25	50	36 x 4	50	20	50	100	180	60	40	149	117	17	85	50	88
CHS 6	25	50	36 x 4	50	20	50	100	180	60	40	149	117	17	85	50	88
CHS 7	25	60	56 x 5.5	60	30	60	120	210	75	55	192	155	25	105	60	108
CHS 8	25	60	64 x 6	60	30	65	130	225	80	65	218	170	25	120	65	118



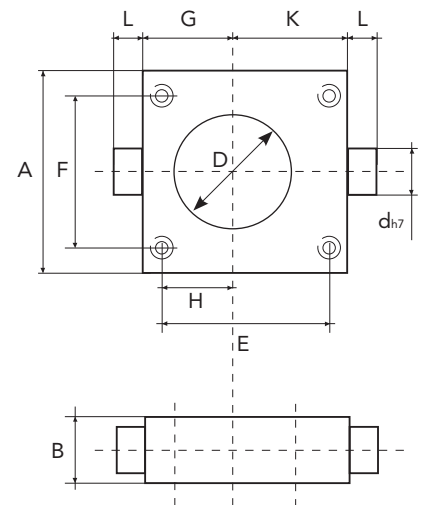
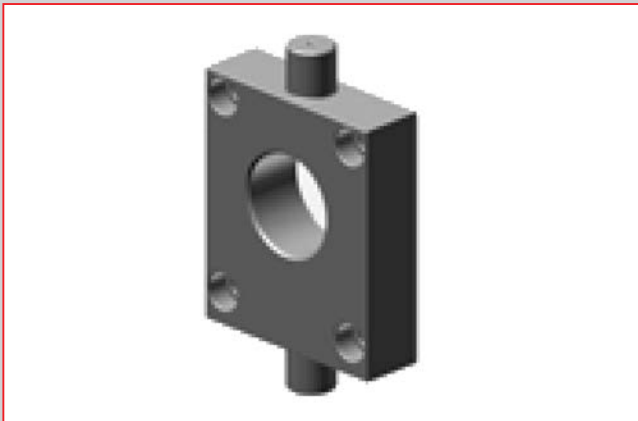
LIMIT SWITCH

For traslating screw TS
FC type

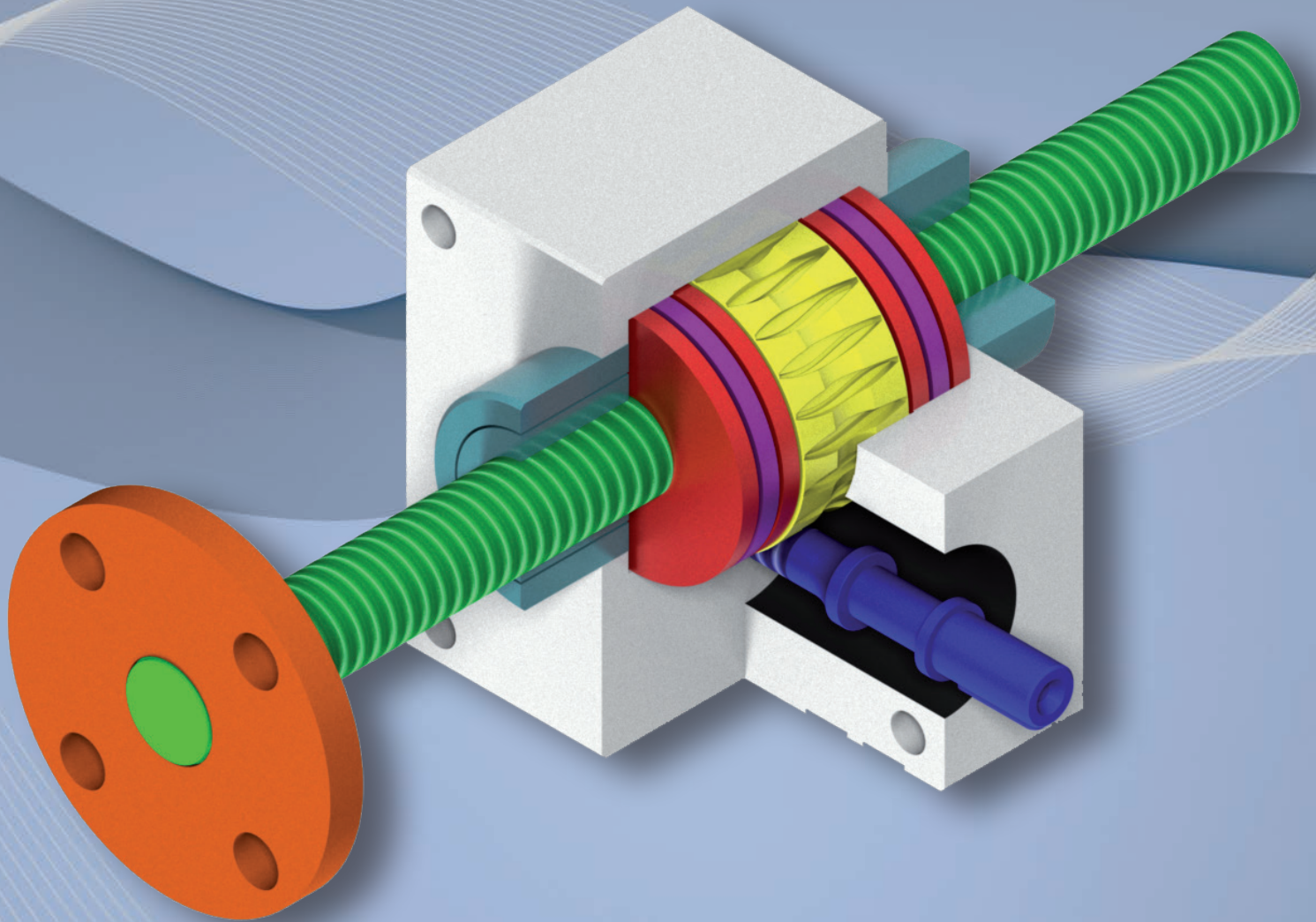


	A	B	Ø C	Ø E	F	G
CHS 1	40	40	34	22	20	16
CHS 2	40	40	48	36	20	18
CHS 3	50	50	65	52	20	20
CHS 4	60	60	74	61	20	20
CHS 5	60	60	95	82	20	20
CHS 6	60	60	95	82	20	20
CHS 7	60	60	128	110	30	30
CHS 8	60	60	128	110	30	30

FLANGE FOR PIVOT GEARBOX (FCO)



Dim.	CHS SERIES							
	1	2	3	4	5	6	7	8
B	20	25	30	40	50	50		
Ø dh7	15	20	25	35	45	45		
D	34	48	64	75	100	100		
H	28	30	48	60	60	60		
E	80	85	131	165	175	175		
F	56	80	102	130	134	134		
A	72	98	128	165	175	175		
G	36	38,5	57,5	75	78	78		
K	60	63,5	92,5	125	138	138		
L	15	20	20	30	35	35		

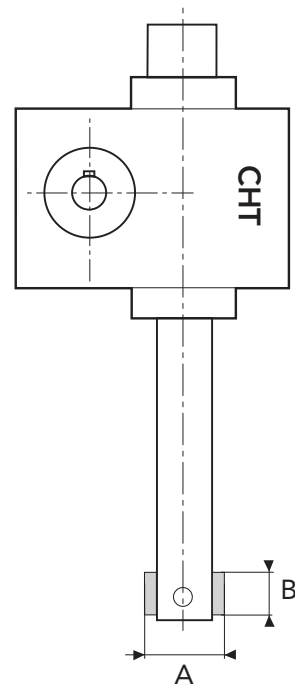




STOP PLATE

For TS translating screw
AS type

GR	A	B
CHS 1	22	16
CHS 2	36	18
CHS 3	52	20
CHS 4	61	20
CHS 5	82	20
CHS 6	82	20
CHS 7	110	30
CHS 8	110	30



OVERSIZE SCREW - AM

RS execution only - Rotating screw

For all sizes it is possible to fix screws with
oversize diameter and pitch.
For TS execution translating screw, please
consult our Technical office.



RG - SLACKS RECOVERY

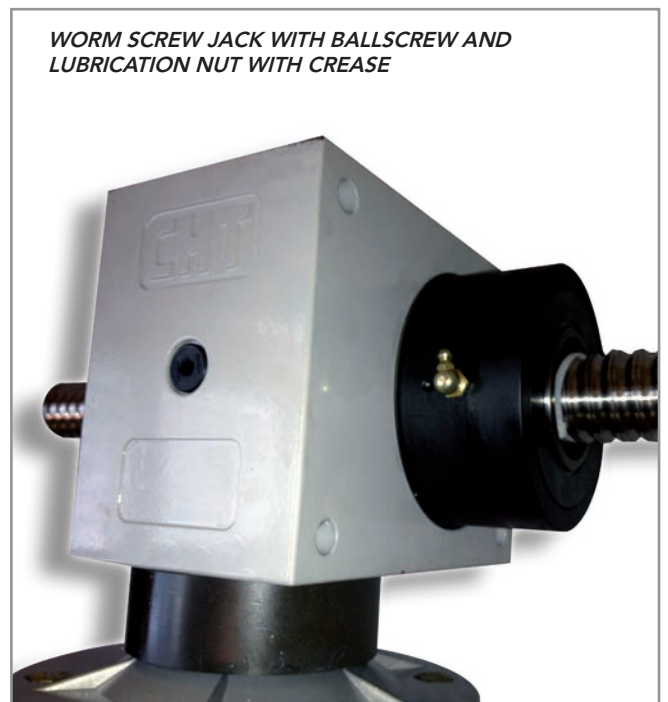
The functioning is based on the role of nuts against nuts. In the TS case, the regulation on the jacks cover allows the slacks recovery. In the RS case, it occurs by means of the counter-nut tightening to the nut.

CU - WEAR AND TEAR CONTROL

The application of an additional nut, just constrained to the helical wheel rotation (in the TS case) and to the female screw (in the RS case), without being subject to the load, allow to visually check the screw-jack wear.



NUT WEAR CONTROL WITH SENSOR

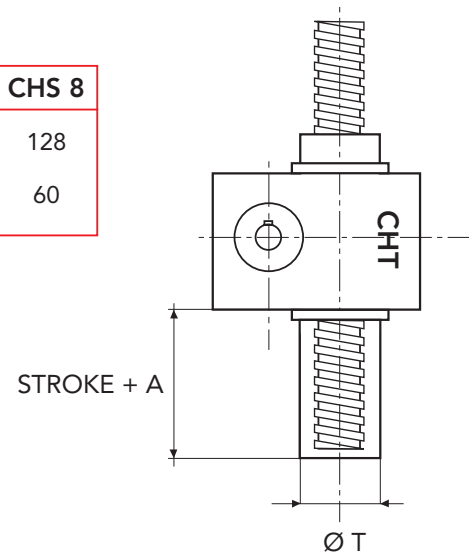


WORM SCREW JACK WITH BALLSCREW AND LUBRICATION NUT WITH CREASE



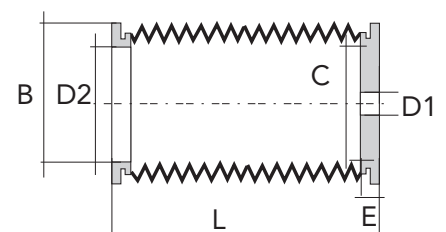
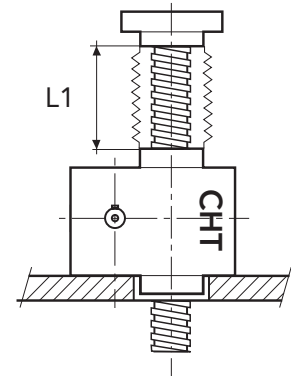
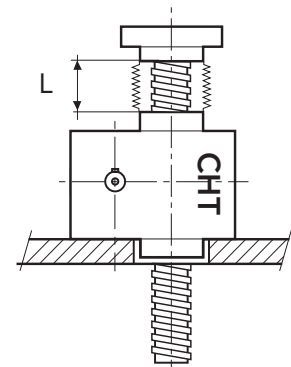
PR - PROTECTION TUBE

Size	CHS 1	CHS 2	CHS 3	CHS 4	CHS 5	CHS 6	CHS 7	CHS 8
T	34	48	70	76	102	102	128	128
A	25	35	40	50	60	60	60	60



PE - ELASTIC BELLOWS

Size	CHS 1	CHS 2	CHS 3	CHS 4	CHS 5	CHS 6	CHS 7	CHS 8
L	65	65	65	40	40	40	70	70
L1	400	400	400	220	220	220	400	400
B	83	83	83	106	106	106	135	135
C	50	50	50	70	70	70	90	90
mod.	1/400	1/400	1/400	2/220	2/220	2/220	1/400	1/400



*SCREW JACK WITH
TRAVERSING SCREW,
RIGID PROTECTION,
CONTROL STROKE
END AND FLEXIBLE
PROTECTION*





CS - SAFETY NUT

Many applications need the certainty that the screw-jack can bear the loading also when the nut (meant as worm wheel or nut) is worn out.

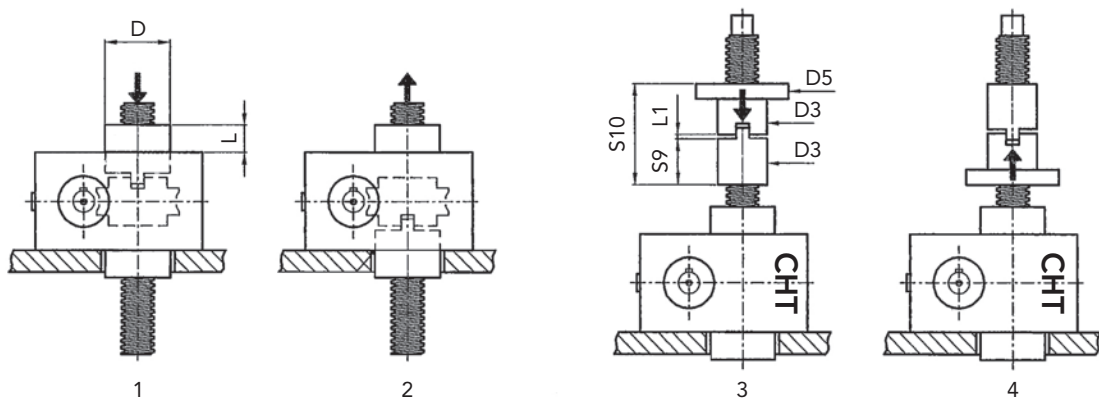
The safety nut couples to the main nut with a frontal key clutch.

In case of the main nut wear, the distance between the two nuts decreases.

This wear causes the reduction of the L or L1 dimension (it depends on the model type, i.e. TS or RS type).

When such a decreasing reaches a value, stated in the table, it is strictly necessary to replace the main and the safety nuts: **therefore, this value is to be periodically checked.**

Please also take into account that the safety nut works only in one direction (so either by traction or by compression).



SAFETY NUT - CS - FOR MODELS - TS

SIZE	CS 1	CS 2	CS 3	CS 4	CS 5	CS 6	CS 7	CS 8
Limit wear valve \varnothing	please contact CHT technical department	1	1,5	1,75	2,25	2,25	2,5	2,5
D \varnothing	please contact CHT technical department	40	52	65	82	82	100	110
L~	please contact CHT technical department	17	20	32	42	42	58	63

SAFETY NUT - CS - FOR MODELS - RS

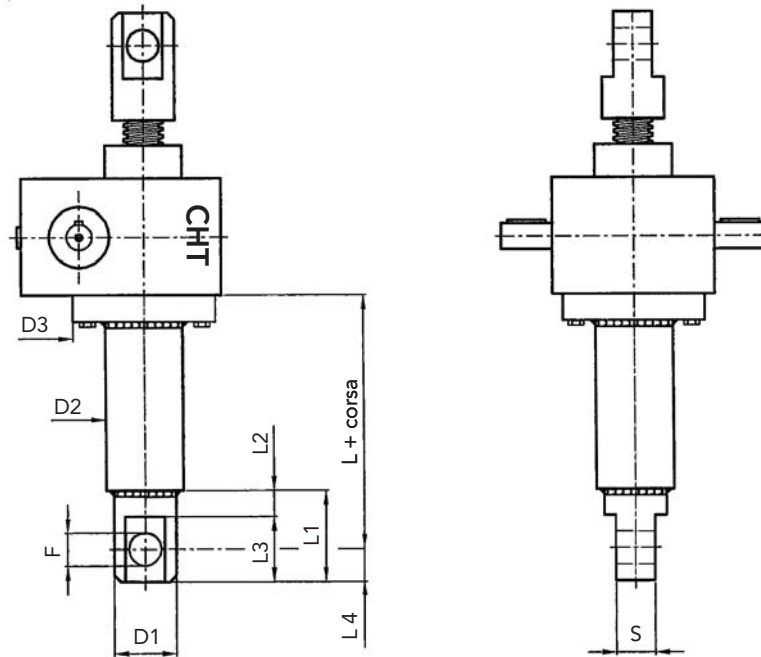
SIZE	CS 1	CS 2	CS 3	CS 4	CS 5	CS 6	CS 7	CS 8
Limit wear valve \varnothing	please contact CHT technical department	1	1,5	1,75	2,25	2,25	2,5	2,5
D3 \varnothing	please contact CHT technical department	32	46	60	76	80	100	110
D5 \varnothing	please contact CHT technical department	60	80	96	130	110	180	190
L1~	please contact CHT technical department	2	3	3,5	4,5	4,5	5	5
S9	please contact CHT technical department	25	30	40	55	60	90	95
S10	please contact CHT technical department	82	89	142,5	193,5	165	200	210



PO - SWAYING PROTECTION TUBE

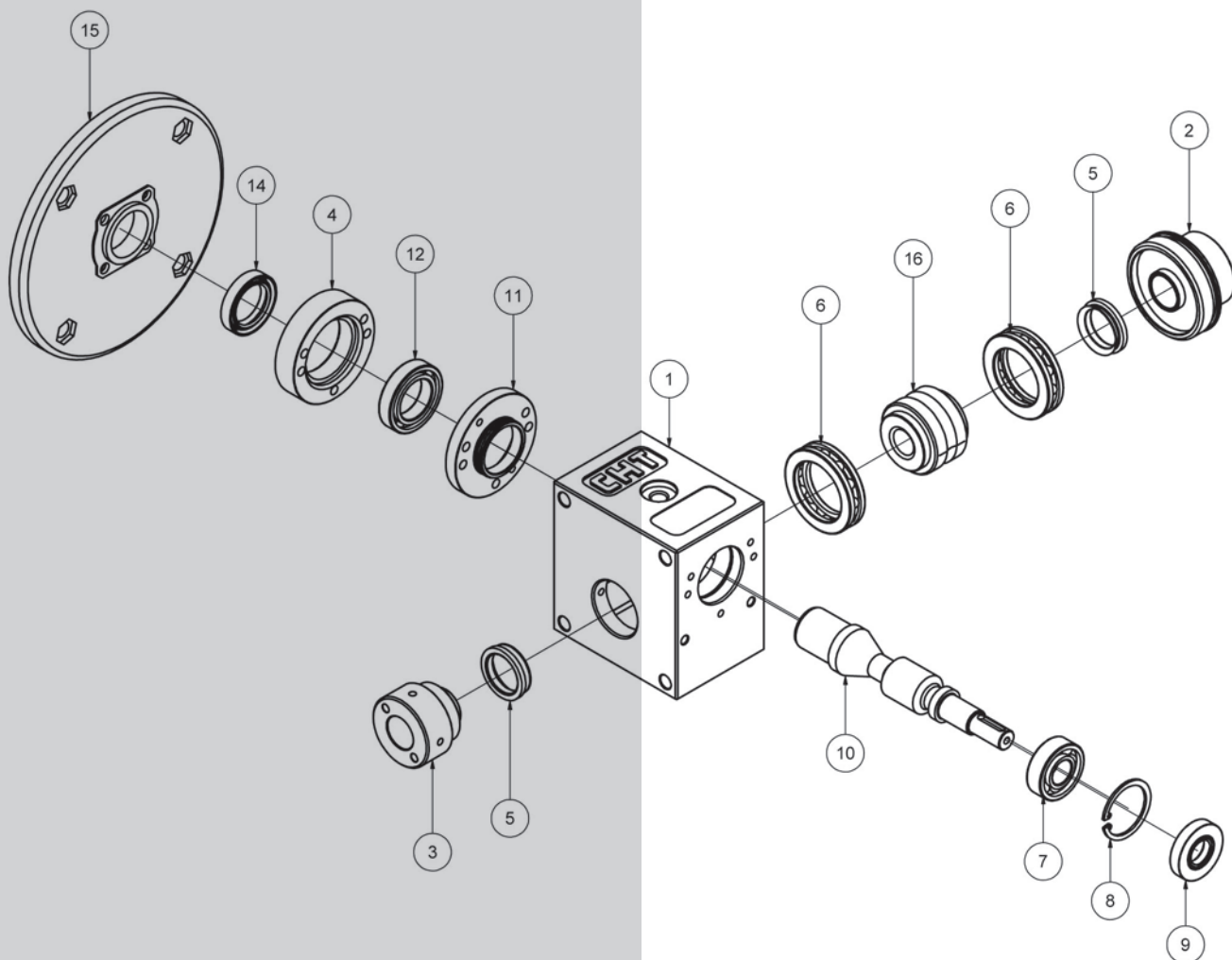
For TP models, we offer a rigid protection with rod end.

Since this protection bears the loading, it is advisable not to exceed with the length, so that to avoid any anomalous flexion.



PO - SWAYING PROTECTION TUBE

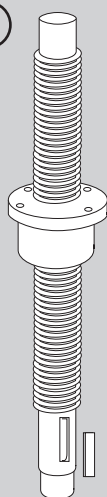
SIZE	CS 1	CS 2	CS 3	CS 4	CS 5	CS 6	CS 7	CS 8
D1 ø	please contact CHT technical department	38	48	68	88	88	118	118
D2 ø	please contact CHT technical department	45	60	85	105	105	133	133
D3 ø	please contact CHT technical department	88	110	150	150	150	200	200
F ø H9	please contact CHT technical department	20	25	35	50	50	60	60
L	please contact CHT technical department	90	115	145	180	180	215	215
L1	please contact CHT technical department	55	70	95	140	140	175	175
L2	please contact CHT technical department	15	20	25	40	40	45	45
L3	please contact CHT technical department	40	50	70	100	100	130	130
L4	please contact CHT technical department	20	25	35	50	50	65	65
L5	please contact CHT technical department	15	20	20	20	20	25	25
S	please contact CHT technical department	25	30	40	60	60	80	80



13



17



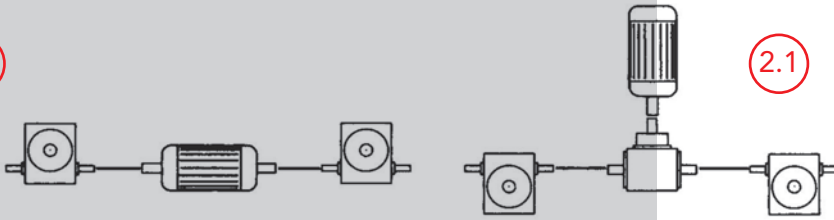
- 1 HOUSING
- 2 THREADED RING
- 3 LOWER RING
- 4 SPACER RING
- 5 WHEEL SEAL
- 6 WHEEL BEARING
- 7 WORM SCREW BEARING
- 8 SEEGER
- 9 SEAL
- 10 WORM SCREW
- 11 RING BEARING
- 12 FLANGE BEARING
- 13 TRANSLATING SCREW TS
- 14 FLANGE SEAL
- 15 FLANGIA MOTORIZZAZIONE
- 16 WORM WHEEL
- 17 ROTATING SCREW RS WITH NUT



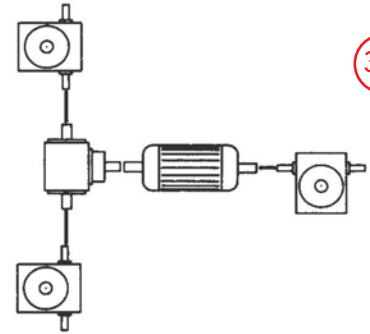
MOUNTING EXAMPLES

VERSIONS

2.0

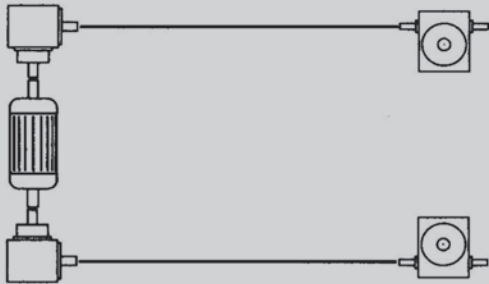


2.1

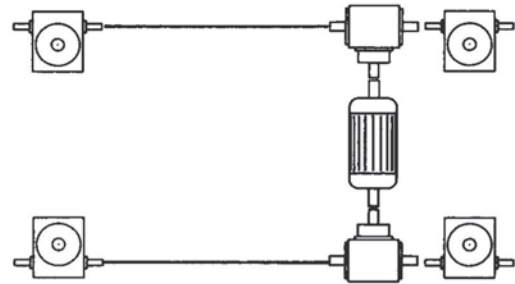


3.1

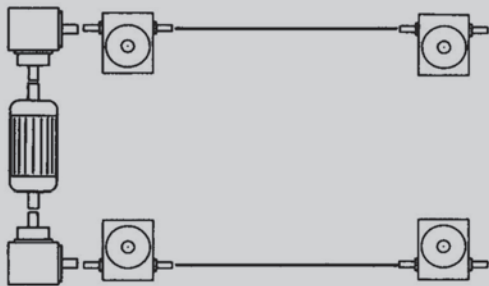
2.2



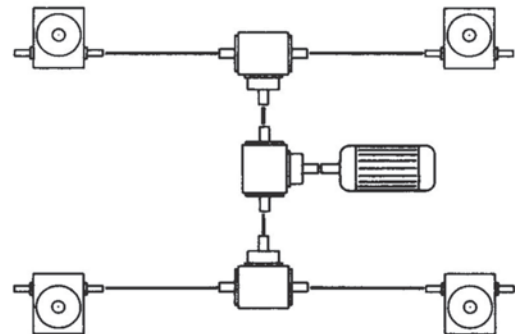
4.1



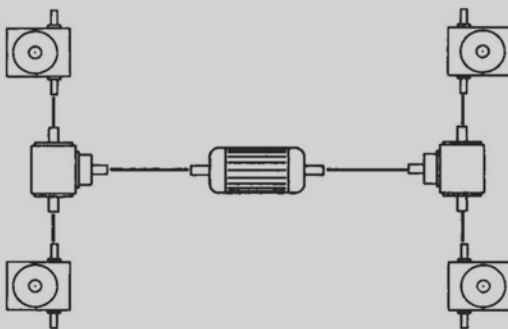
4.2



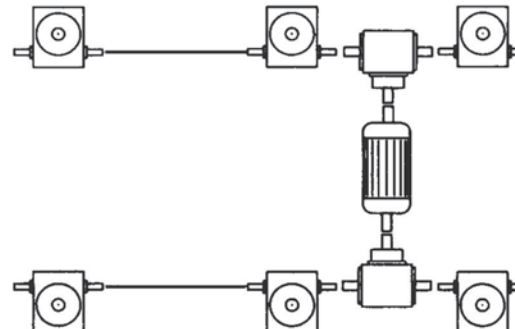
4.3



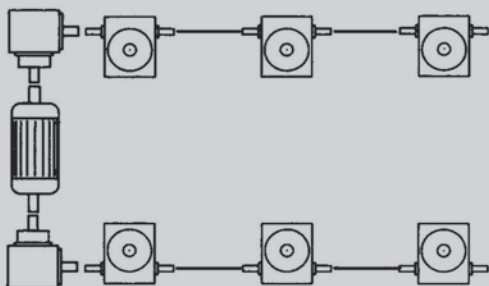
4.4



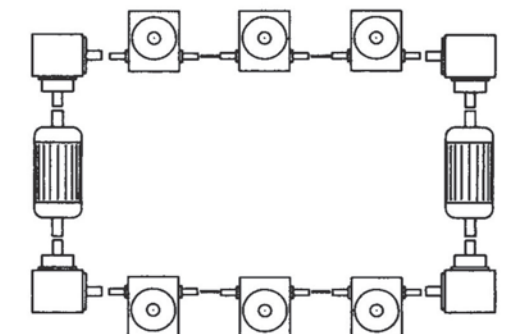
6.1

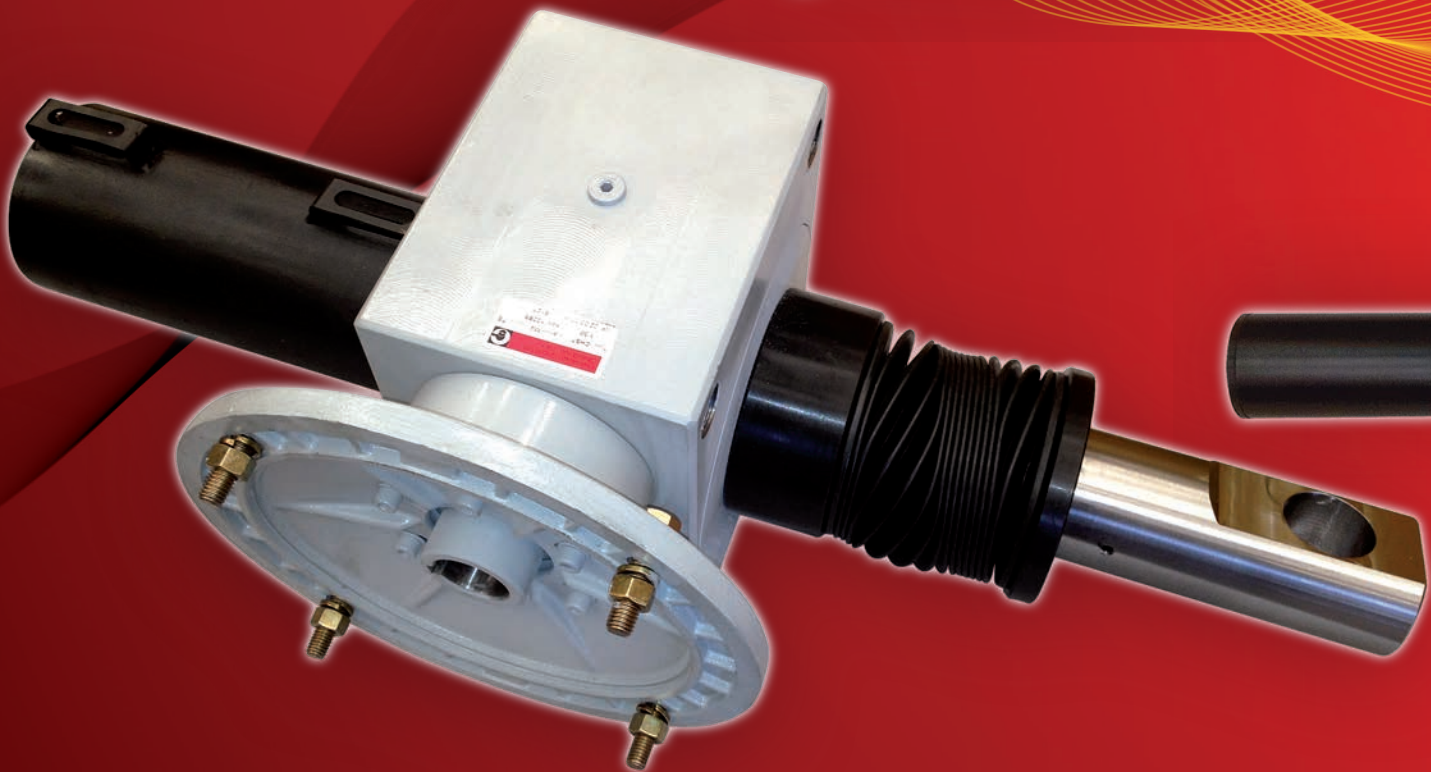
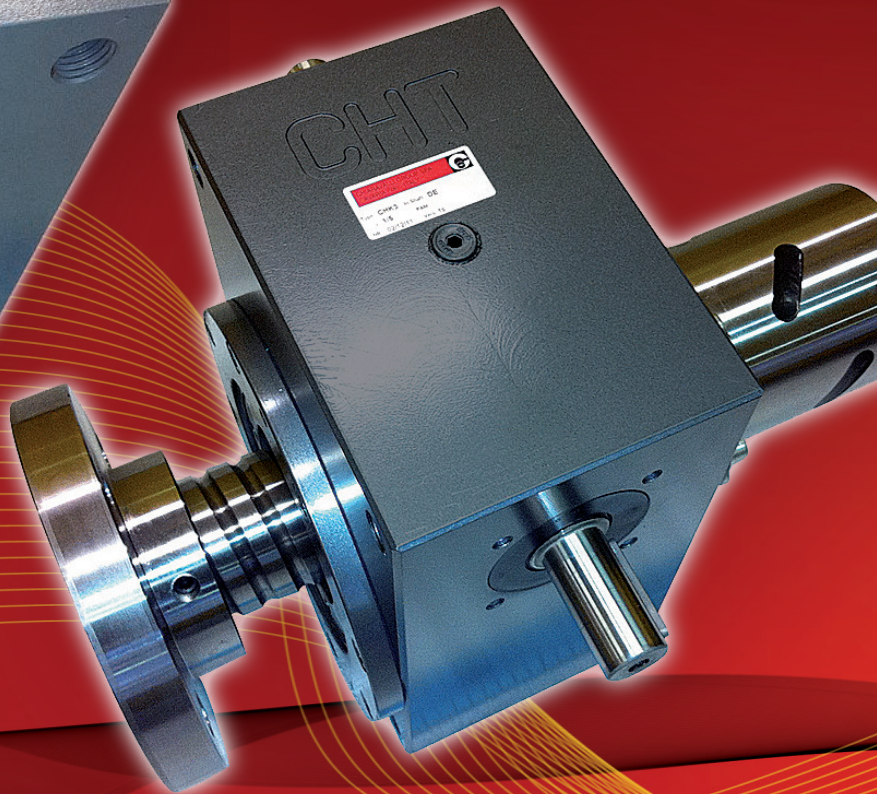
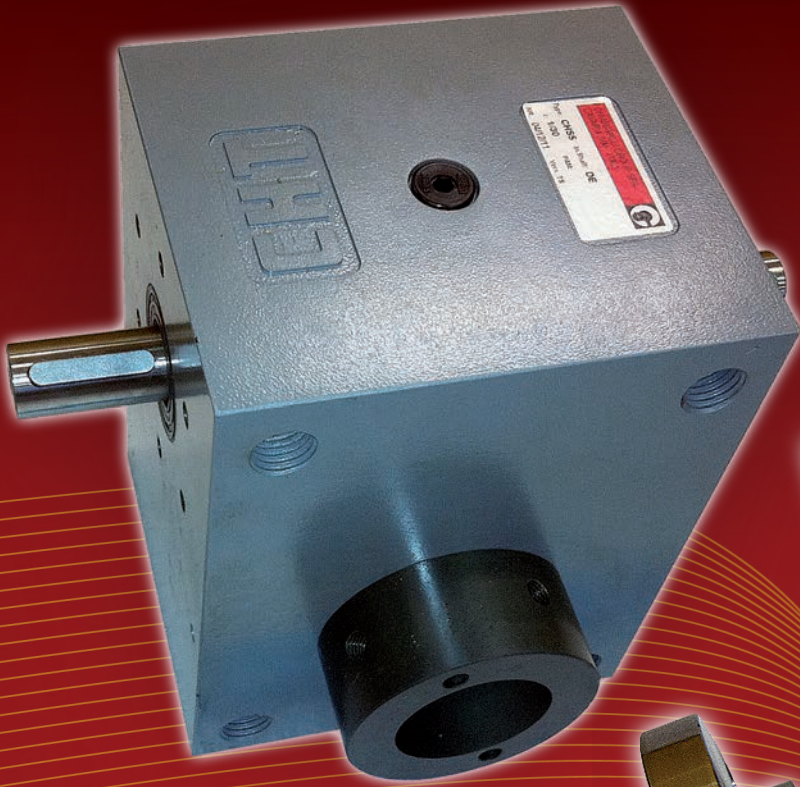


6.2



6.3









50 YEARS OF HISTORY

The goal pursued by Chiaravalli during more than 50 years of history is to become the Italian and European technological center of excellence in the field of mechanical transmission.



STANDARD TRANSMISSION
Standard products as per catalogue



GEAR BOXES & ELECTRIC MOTORS
Standard products as per catalogue



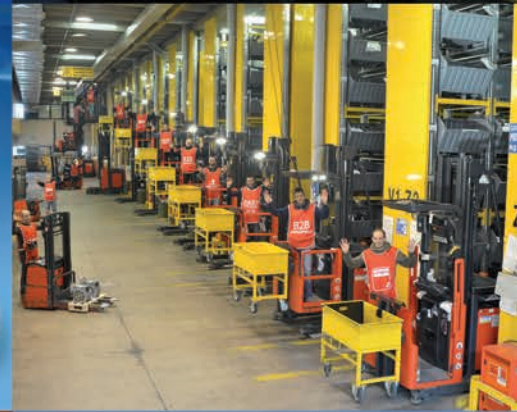
MECHANICAL WORM SCREW JACKS
Customized and Standard products as per catalogue



SPECIAL COMPONENTS
Production of special components with high complexity and extremely high precision



MOTORCYCLE DIVISION
Motorcycle equipment distribution



www.chiaravalli.com

Our Logistic Center in Cantalupa is a coordinated set of informatic functions intended for storage, picking, packaging and delivery of products.

All the functions have been automatized at the highest levels available today.

The Chiaravalli logistic group has established itself over the years becoming an example of excellence for all the European companies working in the same sector.

SHIPPING SERVICES

B2B is Chiaravalli Group SpA E-commerce service of Chiaravalli Group SpA and their partners are connected continually 24 hours a day, 365 days a year. A great, modern and efficient logistics, always.... AT OUR CUSTOMER'S SERVICE.

YOUR SINGLE NEED IS OUR PRIORITY



B2B



FAST TRACK



PRIORITY TRACK SERVICE

ADVANCED SHIPPING





GENERAL SALES CONDITIONS

1) ORDERS - Orders for special and standard material must always refer to offers made by CHIARAVALLI GROUP SpA.

The orders are binding for the client. Once work has commenced no cancellations or order reductions will be accepted unless the client reimburses the costs of the material and the work carried out up to the moment in which the order was suspended.

The quantity despatched can vary by $\pm 5\%$ compared to the quantity ordered.

2) PRICES - The prices are those in force at the date of order.

All prices are for goods delivered ex-works Premezzo, packing excluded. If there should be any increase in production and material costs over the duration of the supply, CHIARAVALLI GROUP SpA reserves the right to adapt the prices accordingly, even for orders in course.

3) TERMS OF DELIVERY - Only the terms of delivery indicated by CHIARAVALLI SpA are to be considered valid. However, they must only be considered as indicative. In the event of difficulty in the procurement of materials, strikes or in any event in all cases of force majeure, the terms of delivery will be automatically extended without CHIARAVALLI GROUP SpA having to pay any reimbursement for damages. The client is obligated to collect special material ordered when ready.

4) DELIVERIES - Deliveries are the responsibility of the purchaser and are carried out at his own risk and peril.

Any claims for shortages must be presented within 8 days of receipt of the goods. If it is agreed that the cost of transport is to be paid, even if only in part, by CHIARAVALLI GROUP SpA, the latter reserves the right to choose the most economical means of transport.

5) PACKING - Packing will be invoiced at cost.

6) RETURNS - No returns for any reason will be accepted unless previously authorised and with packing, any customs clearance and the return paid for by the purchaser. To cover warehouse and administrative expenses a debit note will be issued for approx. 15% of the value of the goods returned.

7) WARRANTY - CHIARAVALLI GROUP SpA promises to repair or substitute free of charge any parts that they recognise as being defective. The questioned goods must be returned to the factory of CHIARAVALLI GROUP SpA, free of all expenses. The warranty will be considered cancelled in the event that the parts returned as defective have been repaired or tampered with. The repair of defective parts carried out by the purchaser will only be accepted after authorisation from CHIARAVALLI GROUP SpA and after their approval of the cost estimate.

CHIARAVALLI GROUP SpA does not accept responsibility or pay any reimbursement for damages that occur during the use of their products, even if defective. Warranty is excluded for leakage of lubricant caused by normal wear of the oil seals.

8) RESPONSIBILITY - CHIARAVALLI GROUP SpA does not accept responsibility or pay any reimbursement for damages that occur during the use of their products, even if defective.

CHIARAVALLI GROUP SpA declines all responsibility in the execution of parts to a client's design under any patents.

9) PAYMENTS - Only payments carried out in the manner and terms agreed will be considered valid. Once the due date of payment has passed, CHIARAVALLI GROUP SpA will calculate the interest on delayed payment at a rate that is 3% higher than the legal one, retaining the right to demand payment.

In the event of delayed or missing payment by the purchaser, the company CHIARAVALLI GROUP SpA reserves the right to suspend deliveries of the orders in course or to demand advance payment without having to pay any reimbursement or compensation to the purchaser. Any dispute regarding materials in manufacture or already possessed by the purchaser does not free the latter from the commitment of making the payment by the agreed date and for the whole amount of the invoice without making any deductions.

10) OWNERSHIP - All of the goods despatched remain the property of CHIARAVALLI GROUP SpA until the invoice is fully paid.

11) COMPETENT COURT - Any controversy concerning business relations with CHIARAVALLI GROUP SpA will be dealt with under the jurisdiction of the Court of Busto Arsizio.



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