

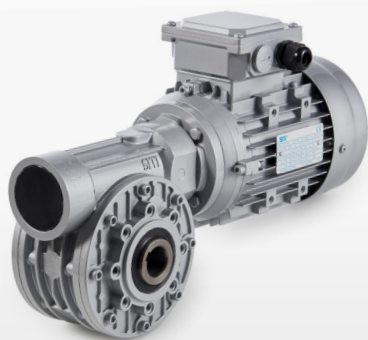
SITI[®]

MOVE YOUR WORLD

PRODUCT OVERVIEW



SERIE I-MI



WORMGEARBOXES

The I-MI series worm gearboxes are designed in a "round" shape, with reduced weight and dimensions. The various versions provided are easily configurable thanks to the modularity of the connection details, such as feet for foot-mounting and flanges for flange-mounting versions.

SIZES	11
STAGES	1
MAX INPUT POWER	55 kW
MAX TORQUE	3000 Nm

size	Nm (max)
I-MI 30	30
I-MI 40	55
I-MI 50	100
I-MI 60	188
I-MI 70	260
I-MI 80	386
I-MI 90	520
I-MI 110	824
I-MI 130	1230
I-MI 150	1836
I-MI 175	3000

HIGH MODULARITY

› Worm gearboxes suitable for the modular assembling of flanges, feet and torque arm.

HIGH VERSATILITY

› 11 sizes with wide range of different mounting positions.

HIGH RELIABILITY

› Up to size 90, housing built in pressure die casting aluminium, designed in order to guarantee lightness, strength and stiffness.

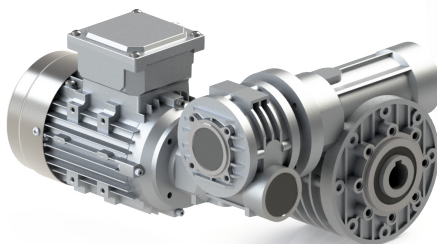
› Starting from size 110 we supply a sturdy cast iron housing that is also suitable for heavy-duty applications.

› "ZI" teeth profile on wormshafts and wormwheels for a silent operations without vibrations.

OPTIONAL ACCESSORIES

- › Input shaft with double-extended ends.
- › Output shaft (single and double).
- › Modular output flanges.
- › Torque arm
- › Safety cover

SERIE CI-CMI



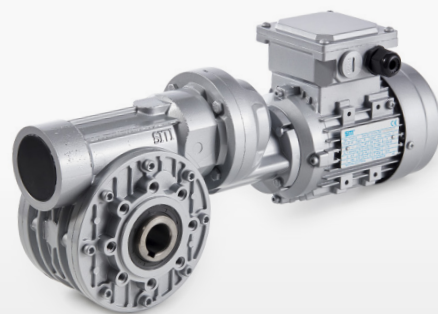
COMBINED WORMGEARBOXES

The CI-MI series worm gearboxes are the combination of two I-MI series gearboxes, in order to obtain a high reduction ratio with reduced overall dimensions. Despite the low efficiency it often turns out to be an advantageous solution.

SIZES	11
STAGES	2
MAX INPUT POWER	6.6kW
MAX TORQUE	4400 Nm
RATIOS UP TO	8000

size	Nm (max)
C-MI 30-40	56
C-MI 40-40	76
C-MI 40-50	123
C-MI 40-60	230
C-MI 50-70	336
C-MI 50-80	554
C-MI 50-90	644
C-MI 70-110	1064
C-MI 70-130	1736
C-MI 90-150	2688
C-MI 90-175	4400

SERIE SR-MI



WORMGEARBOXES WITH PRIMARY REDUCTION

The SR-MI series worm gearboxes are the combination of a I-MI series gearbox with a SR series helical pre-stage unit located at the input side, thus obtaining higher reduction ratios and greater efficiency, compared to the one achieved using the combination of two worm gearboxes.

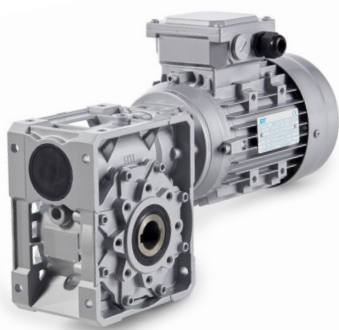
SIZES	14
STAGES	2
MAX INPUT POWER	7.5 kW
MAX TORQUE	2500 Nm
RATIOS UP TO	500

size	Nm (max)
SR 63-40	85
SR 63-50	150
SR 63-60	215
SR 63-70	280
SR 71-60	215
SR 71-70	310
SR 71-80	380
SR 71-90	480
SR 80-90	600
SR 80-110	1050
SR 80-130	1200
SR 100-110	1100
SR 100-130	1800
SR 100-150	2500



MODULAR DESIGN

SERIE U-MU



WORMGEARBOXES

The U-MU Series worm gearboxes are designed in with "square" shape. The U-MU series worm gearboxes are characterized by a high modularity of assembling, thanks to the mating surfaces which are machined on all their sides.

SIZES	6
STAGES	1
MAX INPUT POWER	17.7 kW
MAX TORQUE	885 Nm

size	Nm (max)
U-MU 40	61
U-MU 50	106
U-MU 63	199
U-MU 75	300
U-MU 90	588
U-MU 110	885

HIGH MODULARITY

› Worm gearboxes suitable for the modular as-sembling of flanges and torque arm.

HIGH VERSATILITY

› Wide range of combinations and mounting positions to meet the various requirements of the final application.

HIGH RELIABILITY

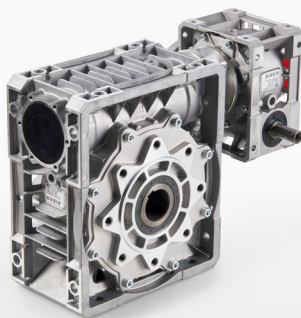
› Housing built in pressure die casting aluminium, designed in order to guarantee lightness, strength and stiffness.

› "ZI" teeth profile on wormshafts and wormwheels for a silent operations without vibrations.

OPTIONAL ACCESSORIES

- › Input shaft with double-extended ends.
- › Output shaft (single and double).
- › Modular output flanges.
- › Torque arm
- › Safety cover

SERIE CU-CMU



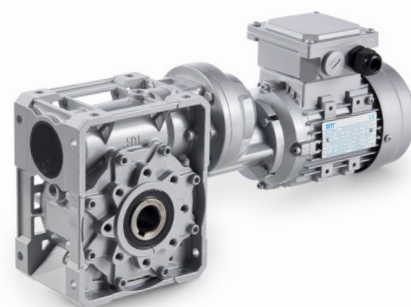
COMBINED WORMGEARBOXES

The C-MU series combined worm gearboxes are the combination of two U-MU series gearboxes in order to obtain a high reduction ratio with reduced dimensions, despite the low efficiency it often turns out to an advantageous solution.

SIZES	6
STAGES	2
MAX INPUT POWER	2.1kW
MAX TORQUE	885 Nm
RATIOS UP TO	5000

size	Nm (max)
C-MI 30-40	61
C-MI 30-50	105
C-MI 30-63	199
C-MU 40-75	300
C-MU 40-90	588
C-MU 50-110	885

SERIE SR-MU



WORMGEARBOXES WITH PRIMARY REDUCTION

The SR-MU series worm gearboxes are the combination of a U-MU series worm gearbox with a SR series helical pre-reduction stage located at the input, thus obtaining higher reduction ratios and greater efficiency compared to the values achievable through the combination of two worm gearboxes.

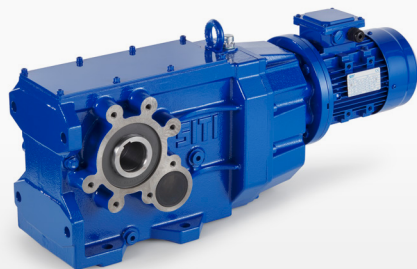
SIZES	9
STAGES	2
MAX INPUT POWER	3.5 kW
MAX TORQUE	1050 Nm
RATIOS UP TO	500

size	Nm (max)
SR 63-40	85
SR 63-50	150
SR 63-63	250
SR 63-75	280
SR 71-63	260
SR 71-75	350
SR 71-90	480
SR 80-90	600
SR 80-110	1050



MODULAR DESIGN

SERIE BH



BEVEL HELICAL GEARBOXES

The BH series bevel helical gearboxes are characterized by their strong structure and by their versatility of use. These are very important features, making this series suitable for applications in the area of medium-heavy industry, both for industrial and civil contexts.

SIZES	9
STAGES	3
MAX INPUT POWER	290 kW
MAX TORQUE	14000 Nm

size	Nm (max)
BH 56	180
BH 63	470
BH 80	875
BH 100	1800
BH 125	3000
BH 140	5000
BH 160	8000
BH 180	11000
BH 200	14000



HIGH MODULARITY

› BH Series bevel helical gearboxes are designed with a wide concept of modularity, which is accomplished by composing a structure of kits of the main sub-groups, giving rise to the different configurations of the final product, thus fulfilling the main application needs.

HIGH VERSATILITY

› 9 sizes with 3 input configurations (solid input shaft, PAM and PAM-GC predisposition).

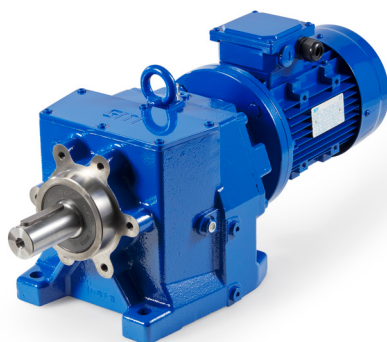
HIGH RELIABILITY

› Size 56 is designed in die-cast aluminum.
› Sizes range 63 – 200 are designed with a monolithic cast iron body suitable for particularly severe applications

OPTIONAL ACCESSORIES

- › Modular output flanges, able to meet the most common market standards
- › Solid output shaft single and double
- › Hollow output shaft for taper lock device
- › Torque arm
- › Back-stop device

SERIE NHL



HELICAL INLINE GEARBOXES

The NHL series helical gearboxes are designed with the concept of a very high degree of modularity, suitable for industrial applications on which high reliability and high performance are required, even in the most severe operating conditions.

SIZES	10
STAGES	2/3
MAX INPUT POWER	210 kW
MAX TORQUE	12000 Nm

size	Nm (max)
NHL 20	89
NHL 25	202
NHL 30	443
NHL 35	561
NHL 40	759
NHL 50	1518
NHL 60	2910
NHL 70	5060
NHL 90	7000
NHL 100	12000



HIGH MODULARITY

› Modular design with compact subgroups, for easy ratio replacement 2/3 stages.

HIGH VERSATILITY

› 10 sizes with 2 possible input arrangements (solid input shaft and PAM electric motor connection).
› Wide range of mounting positions, able to meet the various needs required by the final application.

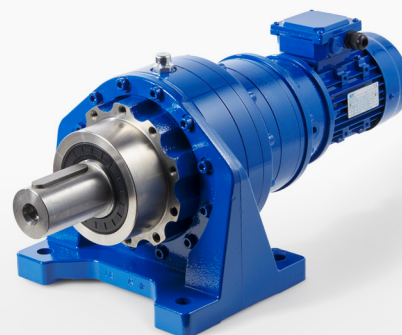
HIGH RELIABILITY

› Size NHL 20 designed with housing in pressure die casted aluminium.
› Range of sizes from NHL 25 up to NHL 100 with monolithic cast iron housing, suitable to particularly severe applications.

OPTIONAL ACCESSORIES

› Modular output flanges, in order to fulfil the most common market requirements

SERIE NRG



PLANETARY GEARBOXES

The planetary gearboxes of the NRG Series are able to fulfill a wide range of industrial applications, thanks to their efficiency, compactness and loading capacity. The design of the planetary system is suitable for all the most demanding applications, on which overloads and shocks can often be found.

SIZES	5
STAGES	2/3
MAX INPUT POWER	25 kW
MAX TORQUE	4000 Nm

size	Nm (max)
NRG 10	1000
NRG 20	2000
NRG 30	2800
NRG 40	4000
NRG 80	8000
NRG 125	12500
NRG 250	25000



HIGH MODULARITY

› Modular design with compact subgroups, for easy ratio replacement (up to 4 reduction stages).

HIGH VERSATILITY

› 7 sizes with 4 input and 4 output configurations.
› 3 different connection possibilities, Direct, FM (foot-mounting), FL (flange-mounting)

HIGH RELIABILITY

› Strong cast iron housing, suitable for particularly severe applications.
› High resistant gears made in top quality steel.

SERIE RP2



SHAFT MOUNTING HELICAL GEARBOXES

The RP2 series shaft mounting gearboxes are designed for oscillating connection on a shaft mounting system, with shock absorbing group and, on request, they can be provided with backstop device.

SIZES	8
STAGES	2
MAX INPUT POWER	140 kW
MAX TORQUE	10000 Nm

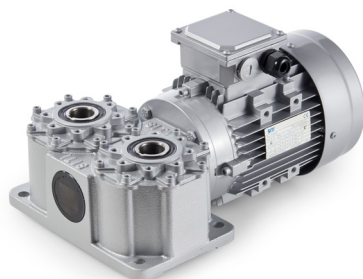
HIGH RELIABILITY

- › Sturdy cast iron housing for heavy duty applications.
- › High resistant gears made in top quality steel.

OPTIONAL ACCESSORIES

- › Hollow output shaft, pre-arranged for taperlock (shrink disk) device.
- › Backstop device

SERIE MD

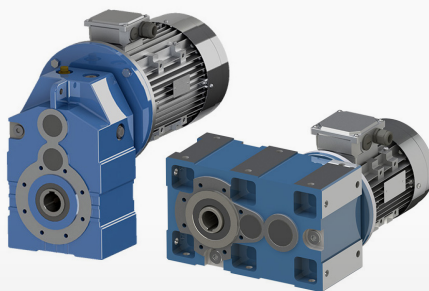


DOUBLE WORMWHEEL GEARBOXES

The MD series of double-worm gearboxes are specifically designed for use in the automation field to meet application needs where two synchronous and counter-rotating outputs are required. The kinematics of the group is composed of a worm shaft and two wormwheels, which provide two counter-rotating hollow shafts at the output. The motorization of this series of gearboxes is provided by electric motors with a standardized IEC fixing flange.

SIZES	5
STAGES	1
MAX INPUT POWER	14 kW
MAX TORQUE	800 Nm

SERIE PD – PL



RIDOTTORI ASSI PARALLELI

The PD/PL series (shaft mounting) gearboxes, are designed with a monolithic housing, in order to have a particularly strong structure, suitable for extremely severe applications.

SIZES	5
STAGES	2/3
MAX INPUT POWER	25 kW
MAX TORQUE	4000 Nm

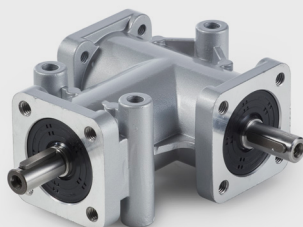
HIGH RELIABILITY

- › Strong monolithic cast iron housing, suitable for particularly severe applications.
- › Gears made in high-strength case-hardening steel.

OPTIONAL ACCESSORIES

- › Modular output flanges, able to meet the most common market standards
- › Solid output shaft

SERIE R



RIGHT ANGLE GEARBOXES

The R series right-angle gearboxes (also known as "the light series") are intended for applications where it is necessary to transmit mechanical power between shafts in a perpendicular arrangement to each other.

SIZES	4
STAGES	1
MAX INPUT POWER	8 kW
MAX TORQUE	35 Nm

- › The R series right-angle (bevel gearboxes) are designed with a monolithic housing made in pressure die casting aluminum, intended to ensure lightness, strength and stiffness.
- › The bevel gears have spiral teeth accomplished with GLEASON technique, are made in high strength steel and subjected to a surface treatment of case-hardening, quenching and tempering, followed by running-in.

SERIE K-MK

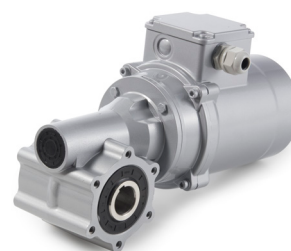


MECHANICAL SPEED VARIATORS

The K-MK series of mechanical variators consists of 7 sizes. Each size can be supplied as a single mechanical variator, suitable to be fitted on the electric motor, or as a variator-gearbox combined unit, to which 1 or 2 geared reduction stages are connected in a compact version.

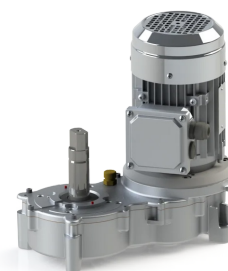
SIZES	7
STAGES	1/2
MAX INPUT POWER	11 kW
MAX TORQUE	3000 Nm

SPECIAL



SERIE ACW – GEARBOXES FOR CAR WASH MACHINES

The ACW 50 series worm gearbox has been custom designed to meet the specific needs of the car washing industry. Optimized for the operation of car wash brushes, it is a key component of the system. Optimized for driving the brushes of washing systems, it represents a key component of the system.



SERIE ICE GEARBOXES FOR ICE MACHINES

The ICE series geared motors are designed to have a compact transmission, characterized by three reduction stages with parallel axes gears. The output shaft is located on the motor side, optimizing the footprint and providing an easier integration into machinery. This series has been specifically developed for applications in the ice making machine sector – Ice Maker.



ITALIA (ITALY)

SEDE e STABILIMENTO

HEADQUARTER

Via G. Di Vittorio, 4 - 40053 Valsamoggia

Loc. Montevoglio (BO) - Italy

Tel. +39/051/6714811

Fax. +39/051/6714858

E-mail: info@sitiriduttori.it

commitalia@sitiriduttori.it

export@sitiriduttori.it

WebSite: www.sitiriduttori.it

USA

SITI Power Transmission USA, Inc.

37 Ayer Rd, Littleton, MA 01460

Tel.: 978-339-4500 - Fax: 978-338-0800

E-mail: sales@sitipowertransmission.com

WebSite: www.sitipowertransmission.com

CHINA

Shanghai SITI Power Transmission Co., Ltd.

Block A, No.558 Xuan Qiu Rd. Sanzao Industrial Park,

Pudong New Area, Shanghai, P.R.China P.C.:201300

Tel: +86-21-68060500 - Fax: +86-21-68122539

E-mail: service@sh-siti.com

WebSite: www.sh-siti.com

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GEARBOXES

GEARED MOTORS

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ROMANIA

S.C. SITI BALKANIA SRL

Piatra Craiului, 7 (Zona Ind. La Dibo) - Hala4 Comp.7

Jud Prahova - Romania

Tel. +40-244434243 - Fax. +40-244434243

E-mail: office@sitibalkania.ro

WebSite: www.sitibalkania.ro

POLAND

SITI-TECH Sp. z o.o.

Milejowice, ul. Napędowa 4

26-652 Zakrzew POLAND

E-mail: sititech@sititech.pl

WebSite: www.sititech.pl

VISIT OUR WEBSITE

