comer industries

Gearboxes

12/11 EDITION

comer industries
planet in motion

IT INDICE

EN *INDEX*

Dati tecnici / *Technical Data*

IT INDICE

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IT SIMBOLOGIA

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	**C-3A**	**92.0 kW**	153
	**C-3A M**	**110.3 kW**	154
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	MR-90 code 95090	**62.6 kW**	156

EN SYMBOLS

	Tipo e codice *Type & Code*	Applicazioni *Applications*	Pag. *Page*
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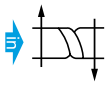
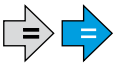
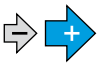
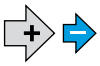
LEGENDA - *LEGEND*

	Giri in entrata *Input r.p.m.*
	Potenza in entrata *Input power*
	Momento torcente in entrata *Torque input*
i	Rapporto *Ratio*
	Albero di entrata *Input shaft*
	Momento torcente in uscita *Output torque*

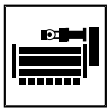
	Tipo di montaggio Gear Arrangement
	Rinvio *Bevel gear unit 1:1 ratio*
	Moltiplicatore *Speed increasing unit*
	Riduttore *Reduction gear unit*
	Quantità lubrificante *Oil (or grease) quantity*
	
	Peso *Weight*

APPLICAZIONI VARIE - *MISCELLANEOUS APPLICATIONS*

Applicazioni varie
Miscellaneous applications

0.00

MACCHINE PER LA PREPARAZIONE DEL TERRENO - *MACHINERY FOR LAND PREPARATION*



Trinciastocchi
Flail mowers

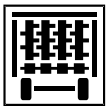
1.01

Falciadistruggierba
Rotary mowers

1.02

Decespugliatrici
Rotary cutters

1.03



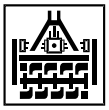
Spandiletame
Manure spreaders

1.04

Decespugliatori idraulici
Hydraulic cutters

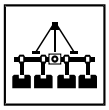
1.05

MACCHINE PER LA LAVORAZIONE DEL TERRENO - *MACHINERY FOR SOIL TILLAGE*



Zappatrici - Fresatrici
Rotary tillers

2.01



Zappatrici multiple
Multiple rotary tillers

2.02

Erpici rotanti
Vertical tillers

2.03

Trivelle
Post hole diggers

2.04

MACCHINE PER IL TRATTAMENTO DELLE COLTURE - *MACHINERY FOR PLANT AND CROP TREATMENT*

Atomizzatori
Sprayers

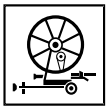
3.01

Spandiconcime
Fertilizer spreaders

3.02

Pompe centrifughe per irrigazione
Centrifugal pumps for irrigation

3.03



Irrigatori a bobina
Irrigation reels

3.04

MACCHINE PER LA RACCOLTA, TRASFORMAZIONE E DISTRIBUZIONE DEL FORAGGIO *MACHINERY FOR HARVESTING, PROCESSING AND DISTRIBUTION OF FORAGE*

Falciatrici rotative
Rotary mowers

4.01

Giroandanatori
Rotary rakes

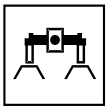
4.02

Carri autocaricanti
Self loading trailers

4.03

Presse raccoglitrici
Balers

4.04

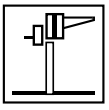


Spandifieno rotativi
Rotary tedders

4.05

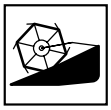
Carri miscelatori
Feed mixer machines

4.06



Molini a martelli
Hammer mills

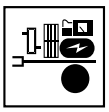
4.07



Falciatrici, caricatrici semoventi e mietitrebbie
Harvester self propelled machines and combines

4.08

MACCHINE PER SERVIZI AUSILIARI - *MACHINERY FOR AUXILIARY SERVICES*



Gruppi elettrogeni
P.T.O. generators

5.01

Seghe circolari - a nastro
Circular saws - Belt saws

5.02

Pompe trituratrici per liquami
Lagoon pumps

5.03

IT PROFILO DELL'AZIENDA

Comer Industries è leader a livello internazionale nella progettazione e produzione di sistemi avanzati di ingegneria e soluzioni di meccatronica per la trasmissione di potenza, destinati ai principali costruttori mondiali di macchine per l'agricoltura, l'industria e la produzione di energia rinnovabile.

La sede principale dell'azienda si trova a Reggiolo (Reggio Emilia).

L'attività produttiva è strutturata su cinque unità operative in Italia, specializzate per linee di prodotto, e un'unità operativa in Cina attiva dal 2008. Comer Industries presidia inoltre i principali mercati esteri con le proprie filiali commerciali in Francia, Germania, Regno Unito, Stati Uniti e Cina.

L'unità operativa Gearboxes, con sede a Reggiolo (Reggio Emilia), è dedicata alla progettazione, produzione e commercializzazione di scatole ingranaggi, cambi di velocità, moltiplicatori e riduttori angolari e ad assi paralleli destinati all'impiego su macchine agricole per la fienagione, raccolta, irrigazione e miscelazione.

L'ampia conoscenza delle applicazioni agricole unita all'elevata capacità progettuale consentono di rispondere alle esigenze del cliente con l'innovazione continua, la qualità e l'offerta di un servizio completo.

EN *COMPANY PROFILE*

Comer Industries is a global leader in the design and production of advanced engineering systems and mechatronic solutions for power transmission, supplied to major manufacturers of agricultural equipment, industrial machinery and of renewable energy applications worldwide.

Comer Industries Headquarters is based in Reggiolo (Reggio Emilia), Italy.

Industrial operations are structured in five operating units in Italy, specialized by product line, and a facility in China opened in 2008. Comer Industries also operates in major foreign markets with its own sales subsidiaries in France, Germany, the United Kingdom, the United States and China.

Comer Industries' Gearboxes operating unit, located in Reggiolo (Reggio Emilia) designs, manufactures and markets gearboxes, speed change gears, parallel and right angle shaft speed increasers and reducers developed in particular for hay, harvesting, irrigation and mixing machinery.

Thanks to extensive knowledge of agricultural applications combined with cutting-edge design expertise, Comer Industries meets all customer requirements through constant innovation, quality and comprehensive service.


CERTIFICATO
COMER INDUSTRIES S.p.A.
UNI EN ISO 9001:2008

Certificazione TUV del Sistema di Qualità Comer Industries.
Comer Industries TUV Certification.

Comer Industries effettua lo sviluppo, la sperimentazione e la prova dei propri prodotti nel Centro Ricerche di Meccatronica, realizzato nel 1996 a Reggiolo (Reggio Emilia) per la ricerca applicata e l'innovazione.
Il Centro Ricerche si estende su una superficie coperta di 1.500 m^2, con undici celle di sperimentazione e prova, perfettamente insonorizzate, dotate di attrezzature all'avanguardia e apparecchiature di simulazione in grado di riprodurre le situazioni di reale utilizzo e funzionamento delle trasmissioni sulla macchina operatrice.
Le tecnologie utilizzate dal Centro Ricerche consentono a Comer Industries di acquisire dati precisi e mirati, indispensabili per la progettazione del nuovo prodotto e la definizione delle soluzioni di meccatronica da sviluppare.
L'attività svolta dal Centro permette così all'azienda di mettere a punto i prodotti in modo ottimale e di comprimere i tempi di esecuzione dei prototipi, e ai clienti di ridurre il time to market per il lancio delle nuove macchine.
Il Centro Ricerche di Meccatronica, dal 2002, è inserito nell'Albo dei laboratori di ricerca pubblici e privati gestito dal MIUR, il Ministero Italiano dell'Università e della Ricerca. Il laboratorio di Reggiolo è il primo in Italia operativo nel campo specifico della meccatronica ad essere incluso nel programma ministeriale che disciplina il sostegno alla ricerca scientifica, per la diffusione delle tecnologie e la mobilità dei ricercatori, con l'obiettivo di creare un ponte concreto tra il mondo della ricerca universitaria e quella industriale.
Il Centro, dove operano dodici ingegneri con elevate competenze specialistiche, è stato recentemente potenziato con nuovi banchi prova per le applicazioni eoliche.

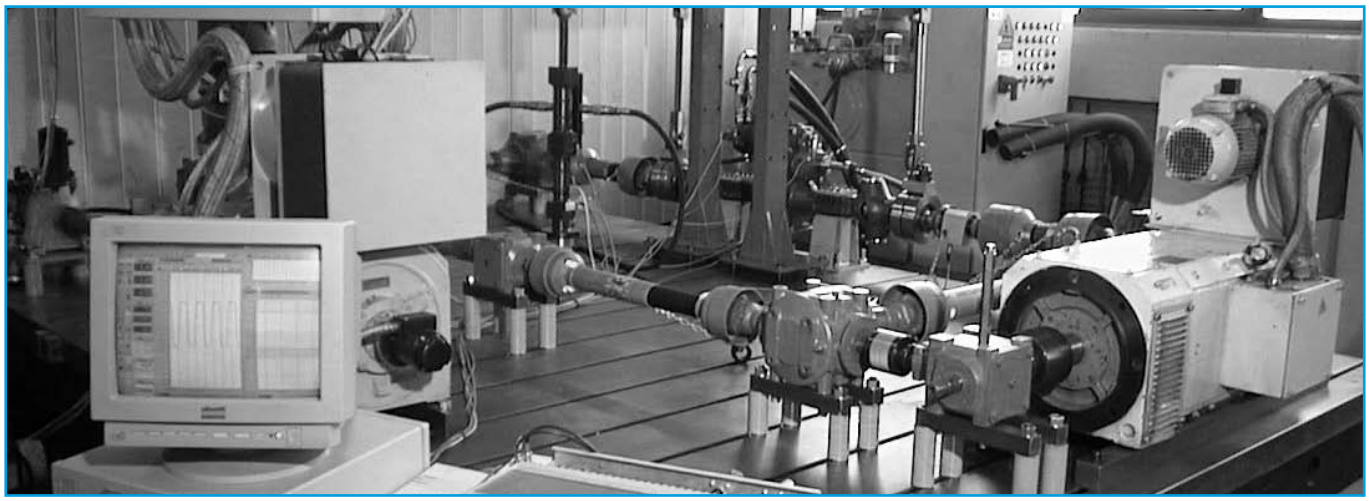
Attività del Centro Ricerche di Meccatronica

- Test di omologazione per componenti commerciali (cuscinetti, sistemi di tenuta, materiali di attrito, scambiatori di calore, sensori, attuatori, ecc…)
- Test funzionali (analisi di rumore e vibrazioni, ottimizzazione dei parametri funzionali e del rendimento globale del riduttore)
- Prove statiche (misura dei giochi, della rigidezza torsionale e dei limiti di rottura delle trasmissioni, verifica della taratura statica dei dispositivi di sicurezza)
- Prove di caratterizzazione di componenti e dispositivi (freni, frizioni, turbine idrauliche, attuatori elettrici, ecc…)
- Prove di endurance (verifica della durata nelle reali condizioni di utilizzo di trasmissioni cardaniche, ad ingranaggi)
- Crash Test (verifica degli effetti dell'impatto contro un ostacolo della macchina e dei suoi componenti rotanti)
- Prove di temperatura sotto carico (definizione del limite termico della trasmissione, ottimizzazione dell'eventuale sistema di raffreddamento)
- Prove strutturali (applicazione di carichi esterni statici e dinamici al corpo scatolare della trasmissione, determinazione dei parametri di rigidezza, verifica dei limiti di resistenza statica e a fatica)
- Prova di affaticamento
- Prove sul campo (registrazione dei parametri di funzionamento della macchina nelle varie condizioni di lavoro)
- Benchmarking (confronti con prove di funzionalità, rumorosità, riscaldamento, durata, crash test, resistenza a vibrazioni, ecc…)
- Messa a punto e omologazione delle trasmissioni fornite ai clienti.

Comer Industries advanced engineering systems are developed, tested and approved at the Mechatronics Research Center, which has been set up in 1996 at Reggiolo (Reggio Emilia) to conduct applied research and continuous innovation.
The Mechatronics Center, covering an area of 1,500 m² (16,000 ft²), has eleven test rooms, totally acoustics insulated, equipped with cutting edge devices and simulators that reproduce machine operating environment.
Technologies used by the Center allow Comer Industries to acquire accurate data, essential for new product design and definition of mechatronic solutions to be developed.
The Center enables Comer Industries to maximize innovation, optimize product performances and reduce both prototyping lead-time and customer time-to-market for new machines.
The leading role played by Comer Industries' Mechatronics Research Center in the development of mechatronics was confirmed in June 2002 when it gained official recognition from the Italian Ministry of Universities and Research and joined the Association of Public and Private Research laboratories. The Reggiolo center is the first mechatronic laboratory in Italy to be included in this ministerial program supporting scientific and technological research.
The Center, with new test benches for wind energy applications, employs 12 highly qualified engineers.

Activities in Comer Industries' Mechatronics Research Center

- *Approval tests for commercial components (bearings, sealings, friction materials, sensors, actuators, etc…)*
- *Functionality tests (noise and vibration analysis, overall efficiency and functional parameters optimization)*
- *Static tests (clearance measurement, torsional stiffness, breakage load limit of drivelines, setting torque of safety devices)*
- *Specs identification tests (brakes, clutches, hydraulic turbines, electrical actuators, …)*
- *Endurance tests (life tests under real load conditions of PTO drive shafts, gearboxes)*
- *Crash tests (impact effect analysis on complete machines and rotating components)*
- *Temperature tests under load (thermal limit identification, cooling system optimization)*
- *Structural tests (static and dynamic external loads applied on gearboxes, stiffness evaluation, static load limit analysis)*
- *Fatigue tests (simulation cycles, alternating stress and origin, including component reversal)*
- *Field tests (data recording of working parameters under different field conditions)*
- *Benchmarking (comparisons of functionality tests, temperature tests, crash tests, lifetime…)*
- *New products homologation.*



La produzione di Comer Industries, accanto ai tradizionali componenti meccanici e idraulici per la trasmissione di potenza, comprende sistemi avanzati di ingegneria e soluzioni di meccatronica destinati alle macchine per l'agricoltura, l'industria e alle applicazioni per l'energia.
La missione di Comer Industries si è progressivamente orientata dalla semplice offerta di prodotti e componenti alla proposta di sistemi completi e di servizio totale al cliente, per la risoluzione di tutte le problematiche nell'ambito della catena cinematica e della trasmissione di potenza.

CARATTERISTICHE

ALBERI E INGRANAGGERIA :
Acciai legati da costruzione secondo Norme:
UNI EN 10084
UNI EN 10083
SCATOLE:
Ghisa Grigia secondo norma: UNI EN 1561
Ghisa Sferoidale secondo norma: UNI EN 1563
Alluminio secondo norma: UNI EN 43100
Acciaio da stampaggio secondo norma: UNI EN 10149

LUBRIFICAZIONE E MANUTENZIONE
Il prodotto viene di norma fornito senza olio lubrificante. Il tipo di lubrificante raccomandato è specificato sul catalogo e deve essere cambiato dopo le prime 50 ore dì lavoro, successivamente dopo ogni 500 - 800 ore ed almeno una volta all'anno. Lo svuotamento del riduttore va effettuato immediatamente dopo il funzionamento, con l'olio ancora caldo, per evitare Il deposito di morchie. Pulire i tappi olio. Il livello dell'olio deve essere controllato periodicamente e rabboccato se necessario.

NOTE
Nell'ambito del continuo sviluppo e miglioramento del prodotto, Comer Industries si riserva la facoltà di apportare le modifiche sia tecniche sia dimensionali che saranno ritenute opportune, senza darne espresso preavviso.

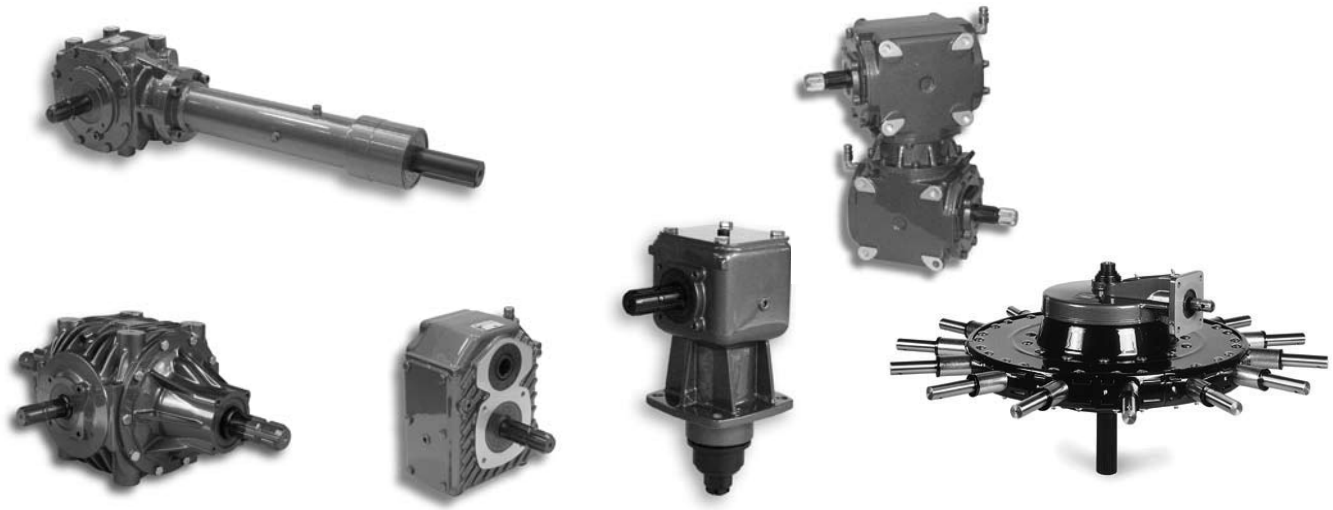
Comer Industries completes its traditional range of mechanical and hydraulic products for power transmission with advanced engineering systems and mechatronic solutions for agricultural machinery, industrial equipments and energy applications.
Comer Industries mission has evolved from supplying products and single components to offering complete power transmission systems and total customer service in response to O.E.M. needs in kinematics.

FEATURES

SHAFTS AND GEARS :
Alloy steel construction according to Standard:
UNI EN 10084
UNI EN 10083
GEARBOXES :
Grey cast iron according: UNI EN 1561
Sferoidal Cast Iron according: UNI EN 1563
Alloy Aluminium according: UNI EN 43100
Steel cold-forming according: UNI EN 10149

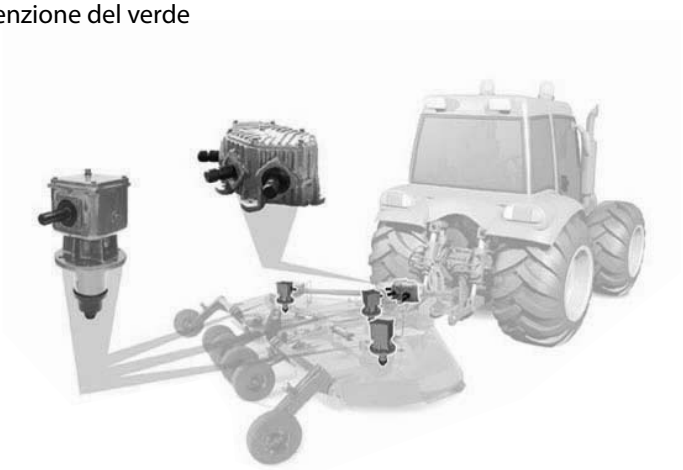
LUBRICATION AND MAINTENANCE
Comer Industries gearboxes are usually supplied without lubricant: recommended oil types are indicated on the catalogue. The first oil change should be effected after the first 50 working hours: subsequent changes should take place after 500-800 hours or at least once a year In order to avoid sludge deposits, change the oil while it is still warm after gearbox stopping. All plugs should be cleaned. Periodically, check the oil level and top up the gearbox if necessary.

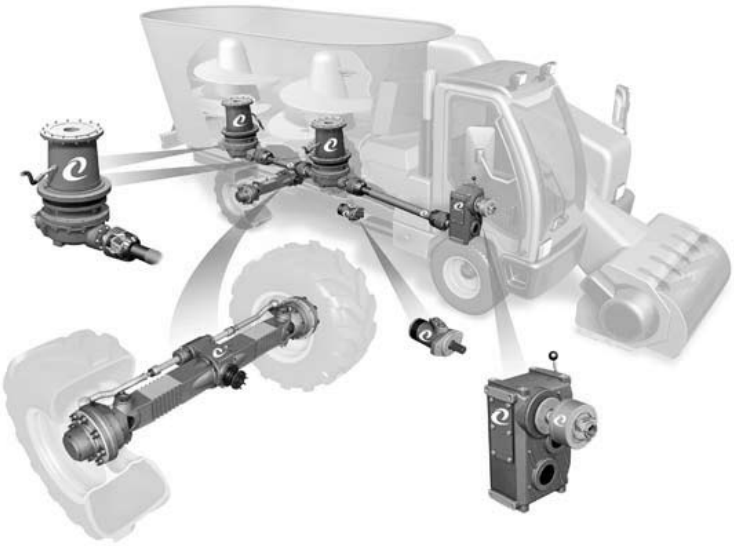
NOTES
Comer Industries is continuously improving its product, the company therefore reserves the right to change the technical information and dimensions of the products, without notice.



La meccatronica applicata al settore agricolo permette a Comer Industries di gestire sistemi altamente innovativi e funzionali destinati in particolare a macchine per fienagione, raccolta, irrigazione e miscelazione.
L'evoluzione della tecnologia in questo settore ha spinto Comer Industries ad estendere la propria gamma di prodotti dai componenti tradizionali per macchine agricole azionate da trattrici alle trasmissioni per grandi macchine semoventi di nuova generazione.

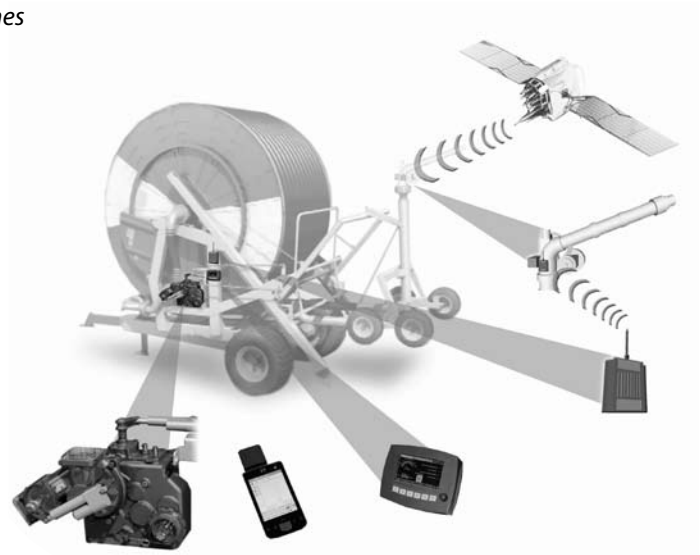
Macchine per la preparazione del terreno
Macchine per la lavorazione del terreno
Macchine per la fertilizzazione
Macchine per l'irrigazione ed il trattamento delle colture
Macchine per la raccolta, lavorazione e distribuzione foraggio
Mietitrebbiatrici e macchine semoventi
Macchine agricole da raccolta
Macchine per il giardinaggio professionale e la manutenzione del verde
Macchine forestali

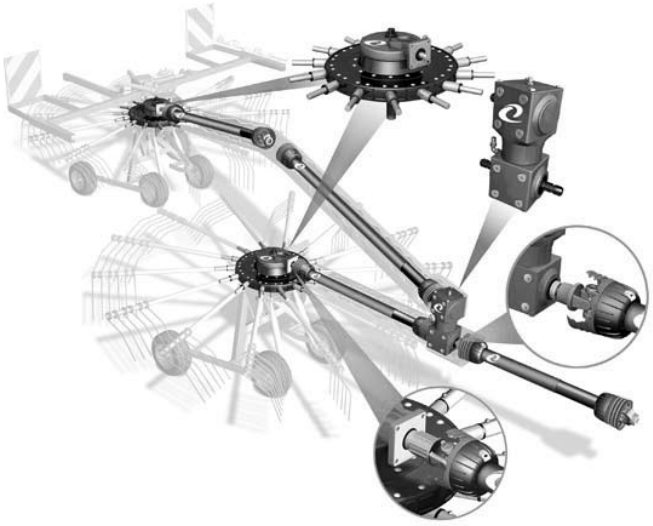




Mechatronics applied to the agricultural sector allows Comer Industries to manage highly innovative and functional systems designed in particular for hay-making, harvesting, irrigation and mixing.
Technological development in this sector has prompted Comer Industries to extend its range of products from traditional parts for agricultural machinery driven by tractors to transmissions for large new-generation self-propelled machines.

Land preparation machines
Soil tillage machines
Fertilizing machines
Irrigation and crop treatment equipment
Forage harvesting, processing and distribution machines
Combined harvesters and self-propelled machines
Harvesting machines
Lawn and garden equipment
Forestry equipment





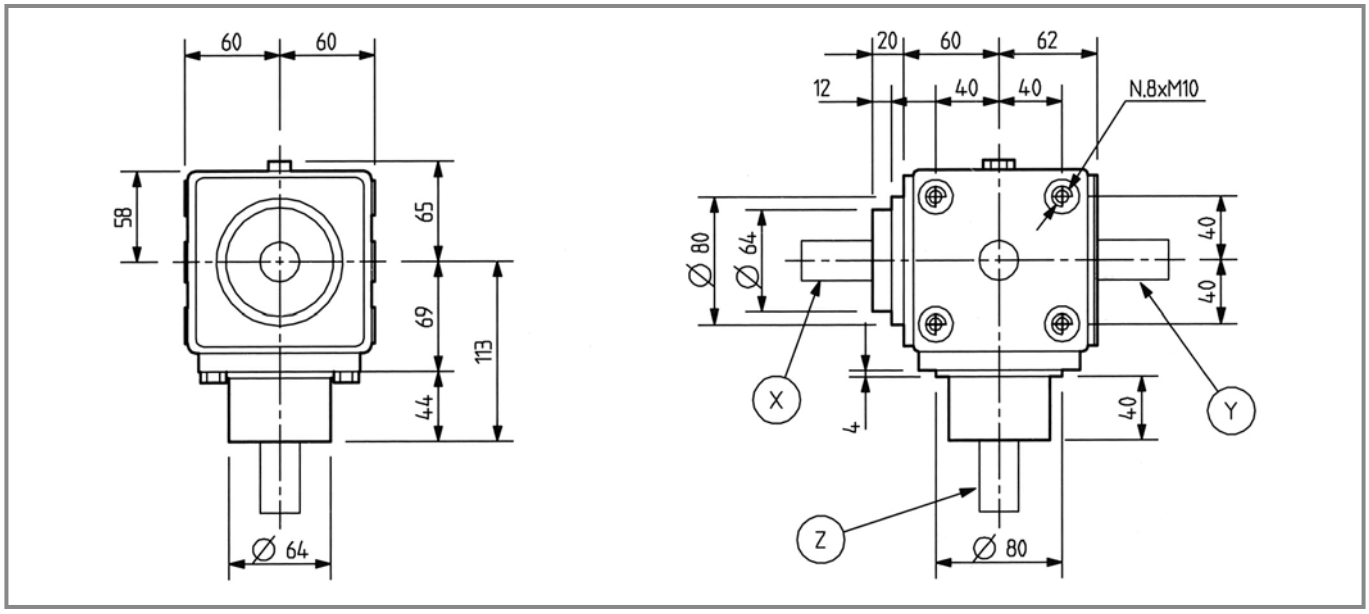
L-5A

Code **104**

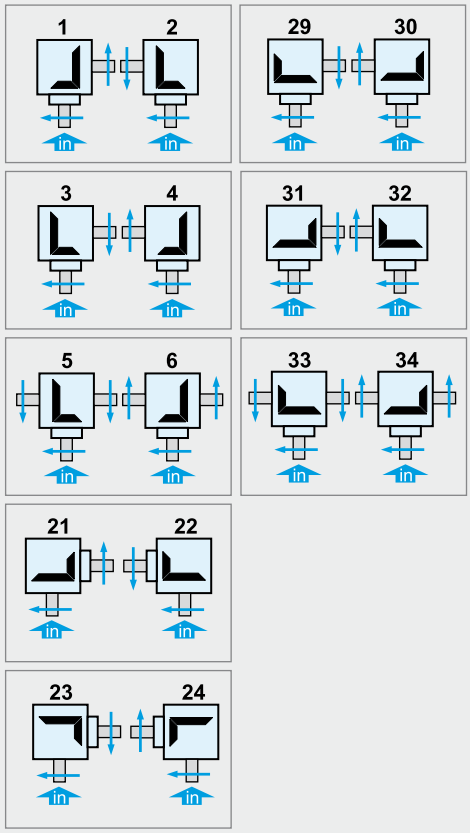
kg	[kg]	8

OIL	[l]	0.4

0.00



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	11.0	*15.0*	189	*1751*	std	Z	1-2 / 3-4 / 5-6
	1.35		9.9	*13.5*	126	*1167*		X-Y	21-22 / 23-24 31-32 / 33-34
	1.90		11.0	*15.0*	99	*921*		X-Y-Z	
M	**2.78**	540	5.2	*7.0*	31	*294*	std	X-Y	21-22 / 23-24
	2.91		5.1	*6.9*	-	-		X	21-22
	3.00		5.1	*7.0*	30	*278*		X	21-22 /23-24
	1.35		8.1	*11*	187	*1733*			
R	**1.90**	540	7.0	*9.5*	227	*2107*	std	Z	1-2 / 3-4 / 5-6
	2.78		2.9	*4.0*	140	*1298*			



comer industries
gearboxes

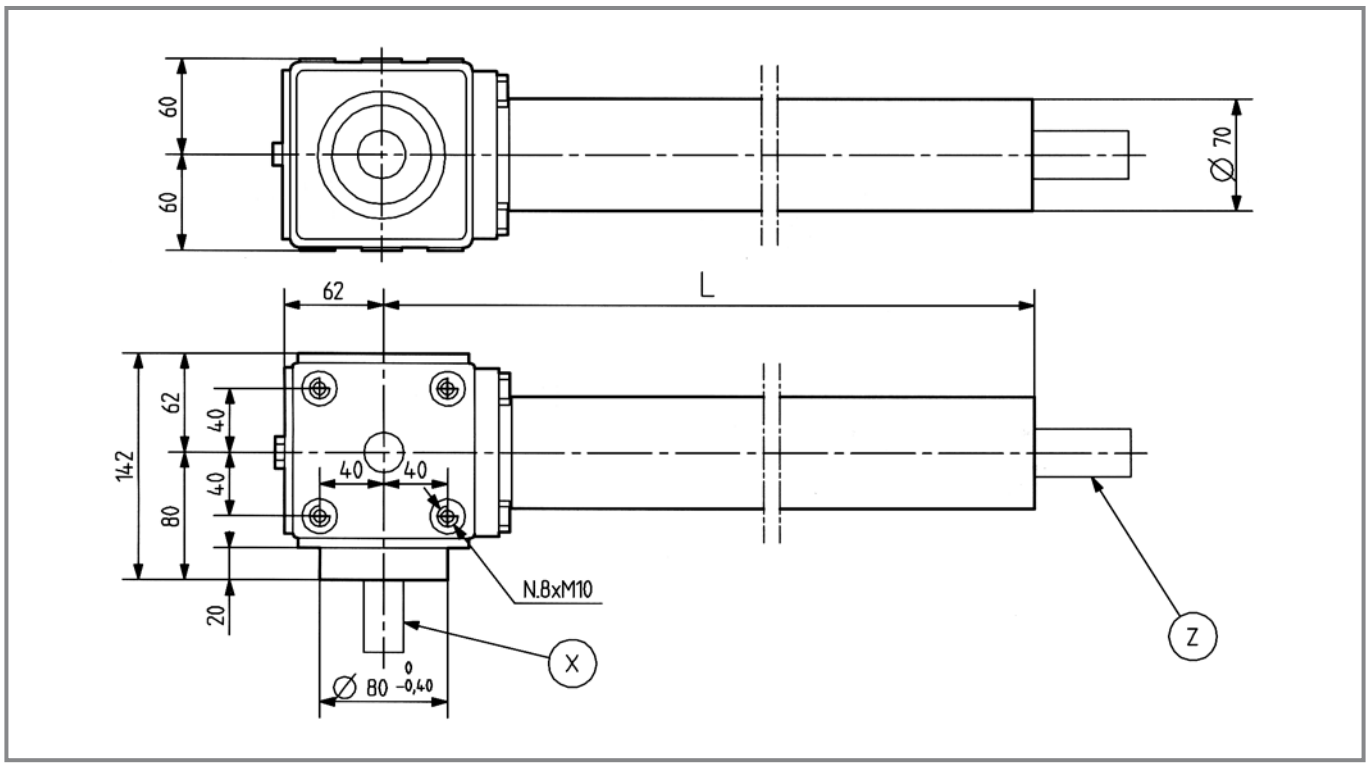
LL-5L

1.01

Code **104**

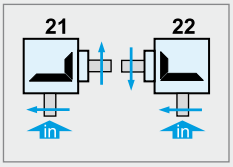
kg	[kg]	15

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
M	**1.90**	540	**11.0**	*15.0*	99	*921*	std	X	530	104.419
									615	104.452

21-22



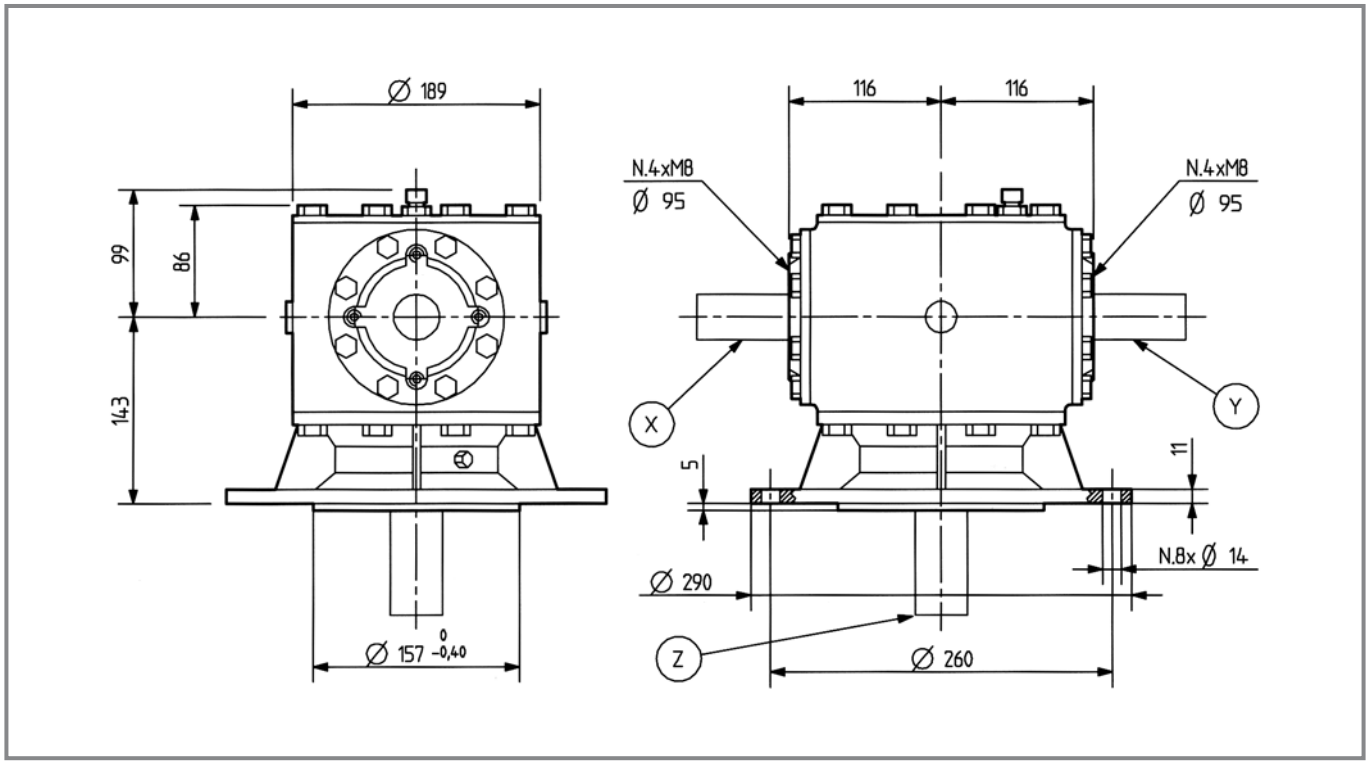
LTV-14F

2.02

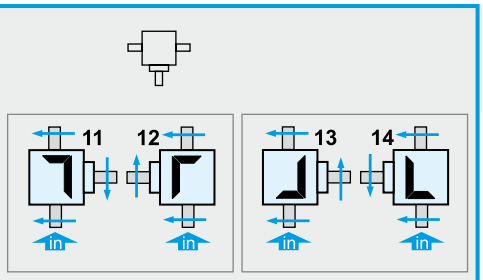
Code **113**

kg	[kg]	31

OIL	[l]	1.15



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**1.92**	540	**29.4**	*40.0*	96.8	*8964*	std	X-Y	11-12/13-14



comer industries
gearboxes

L-25A

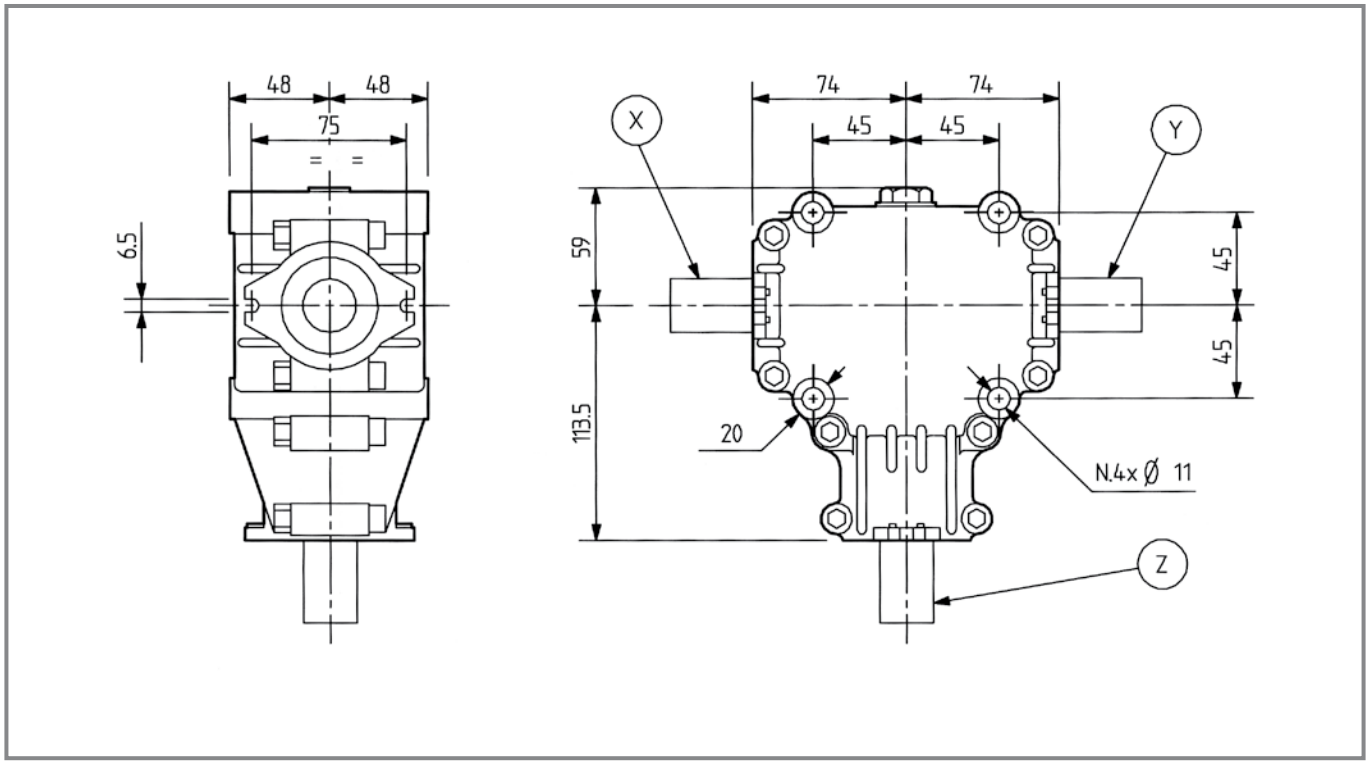
Code **124**

kg	[kg]	4.1

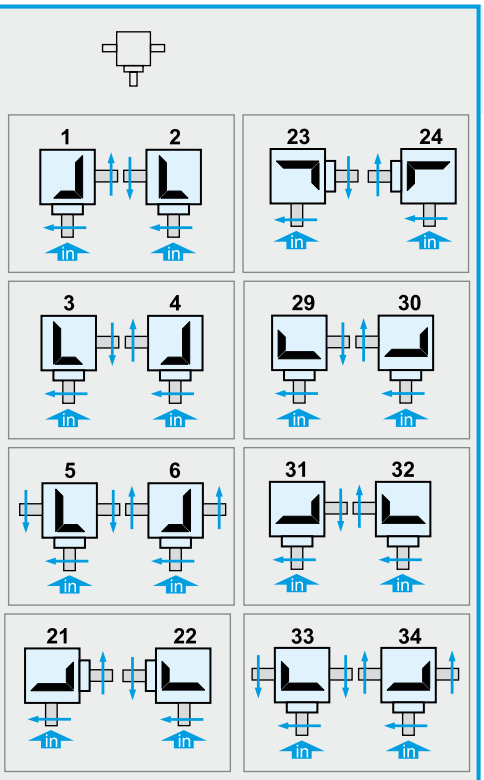
OIL	[l]	0.4

0.00

3.02
Vers. L25-B



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**11.0**	*15.0*	189	*1751*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	**9.9**	*13.5*	126	*1167*	std	X-Y	21-22 / 23-24 31-32
	1.50		**9.9**	*13.5*	113	*1049*	spec		31-32
	1.90		**11.0**	*15.0*	99	*921*	std	X-Y-Z	21-22 / 23-24 31-32 / 33-34
	2.78		**5.2**	*7.0*	31	*294*		X-Y	21-22 / 23-24
	2.91		**5.0**	6.8	-	-			21-22
	3.00		**5.0**	*6.8*	29	*265*	spec	X	
R	**1.35**	540	**8.1**	*11*	187	*1733*	std	Z	1-2 / 3-4 / 5-6
	1.90		**7.0**	*9.5*	227	*2107*			
	2.78		**2.9**	*4.0*	140	*1298*			
	3.30		**2.2**	*3.0*	124	*1155*			5-6



Nota: disponibile versione con ruota libera
NOTE: Available version with free wheel

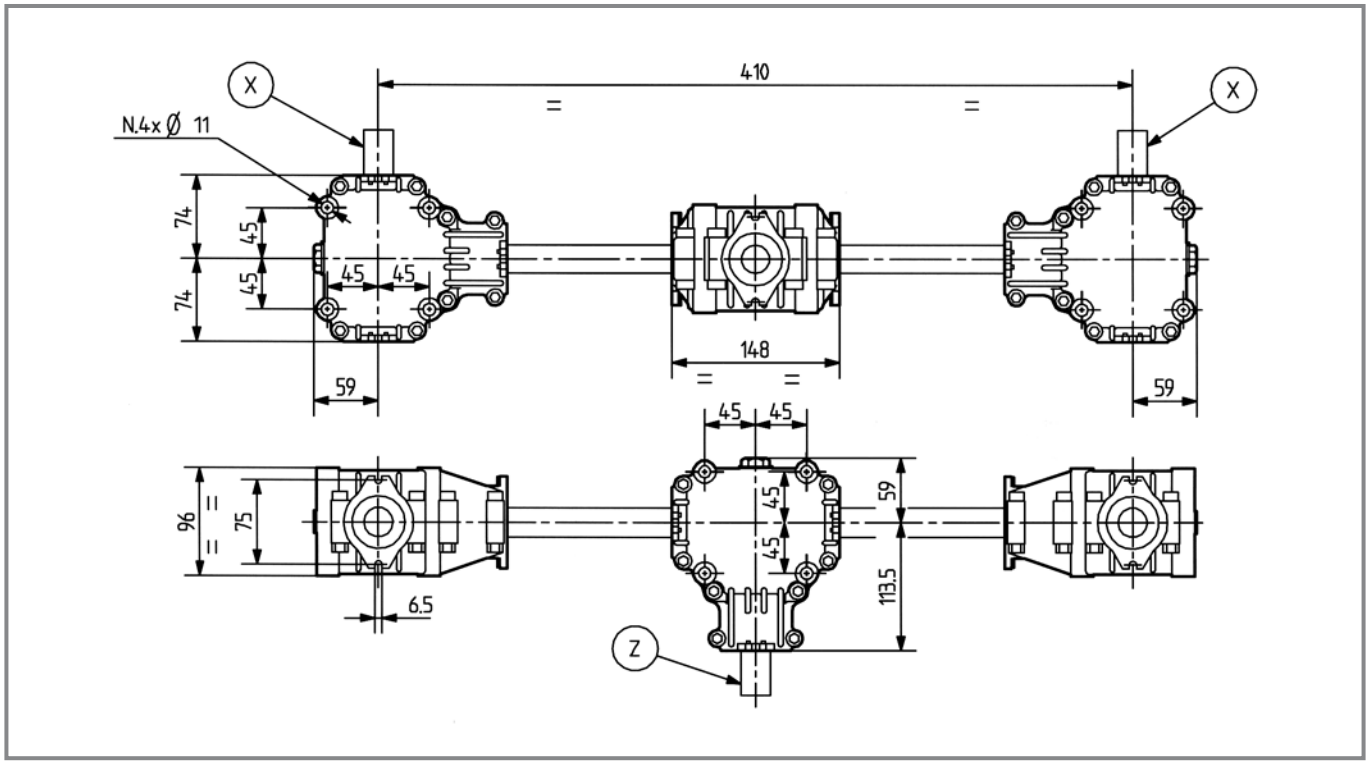
L-25C

Code **124**

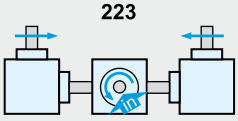
kg	[kg]	17

OIL	[l]	0.35x3

3.02



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.35**	540	**11.0**	*15.0*	140	*1295*	std	Z	223



comer industries
gearboxes

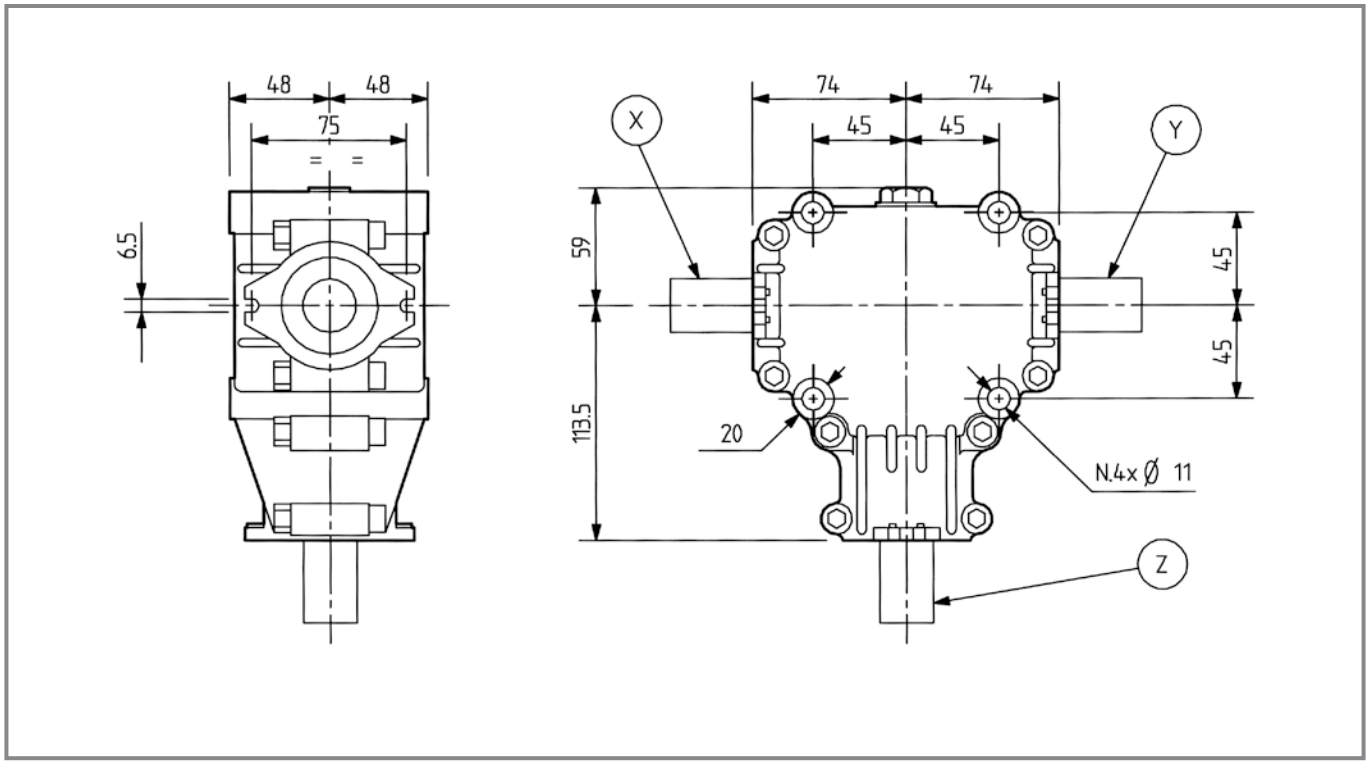
L-25J

Code **124**

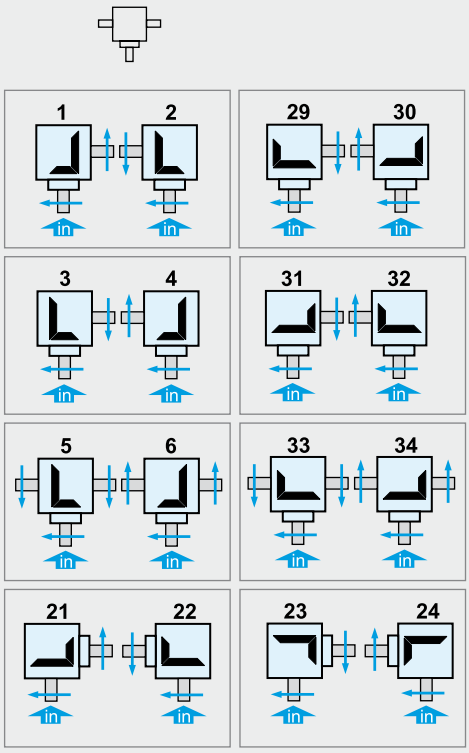
kg	[kg]	4.1

OIL	[l]	0.35

0.00



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1**	540	**11.0**	*15.0*	189	*1751*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	**9.9**	*13.5*	126	*1167*	std	X-Y	21-22 / 23-24 31-32
	1.50		**9.9**	*13.5*	113	*1049*		X-Y	31-32
	1.90		**11.0**	*15.0*	99	*921*		X-Y-Z	21-22 / 23-24 31-32 / 33-34
	2.78		**5.2**	*7.0*	31	*294*		X-Y	21-22 / 23-24
	3.00		**5.0**	*6.8*	29	*265*		X	21-22
R	**1.35**	540	**8.1**	*11*	187	*1733*	std	Z	1-2 / 3-4 / 5-6
	1.90		**7.0**	*9.5*	227	*2107*			
	2.78		**2.9**	*4.0*	140	*1298*			
	3.30		**2.2**	*3.0*	124	*1155*			5-6



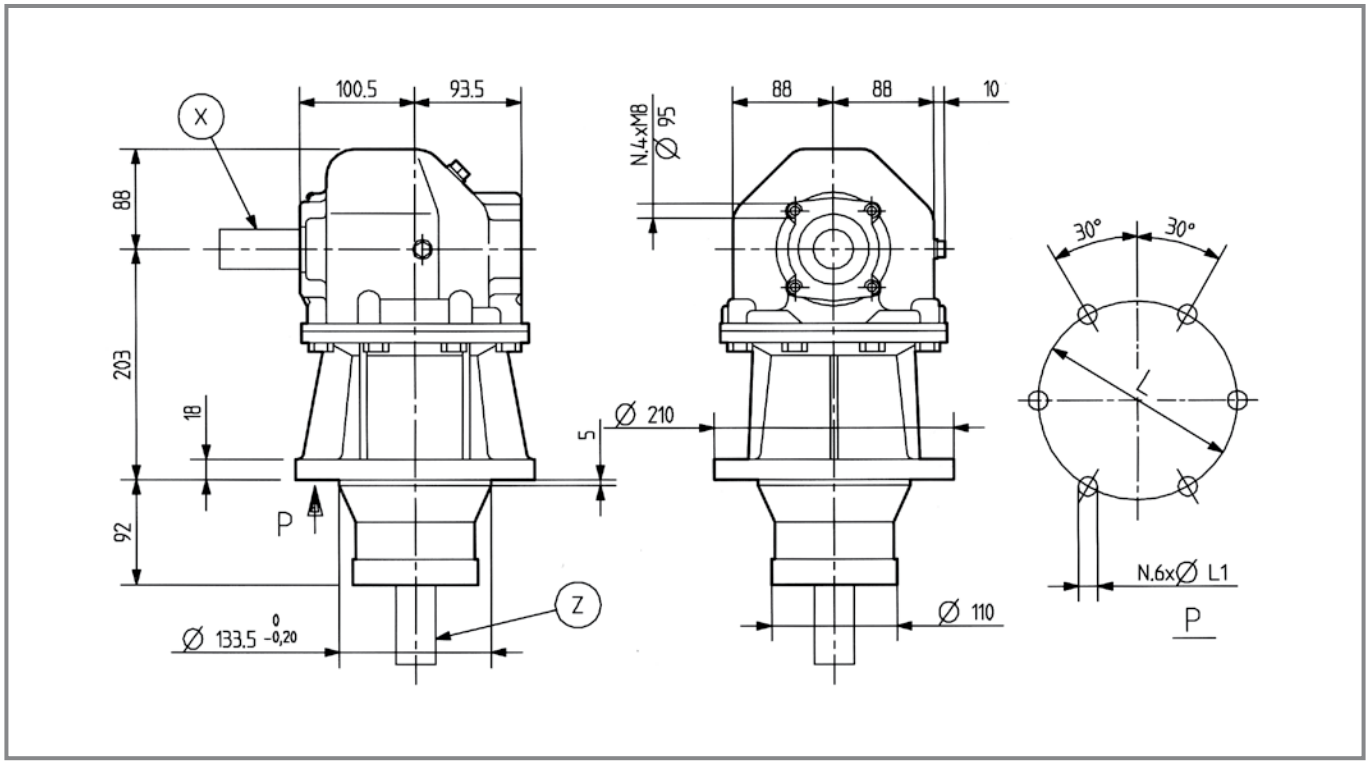
NOTA: Trattamento superficiale anodizzazione nera sulla scatola
NOTE: Surface treatment black anodizing on housing

LF-32A

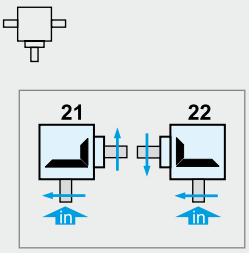
Code **132**

kg	[kg]	30
OIL	[l]	2.0

1.03



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	1000	44.2	*60.0*	408	*3782*	std	X	21-22
M	**1.27**	540	44.2	*60.0*	597	*5533*	std	X	21-22
	1.50				504	*4669*			
	1.93				392	*3628*			



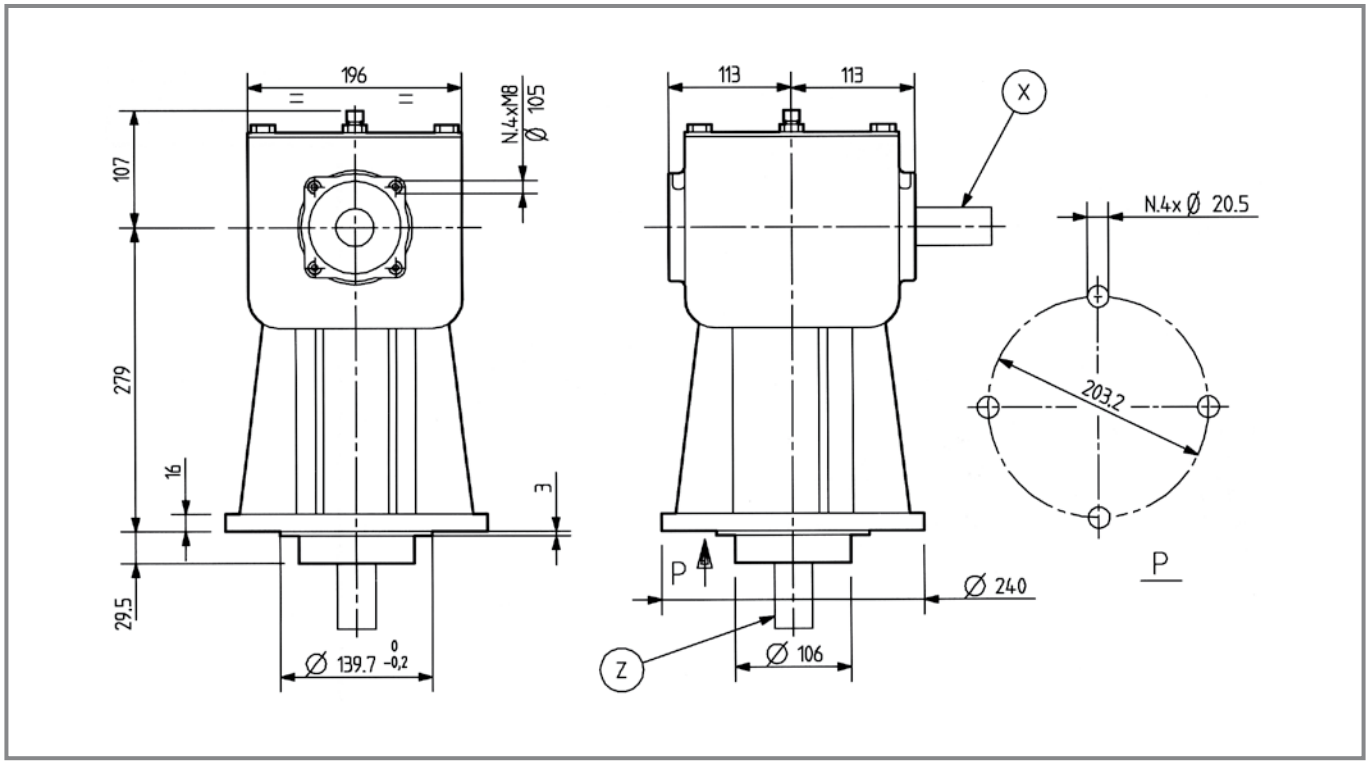
comer industries
gearboxes

LF-139A

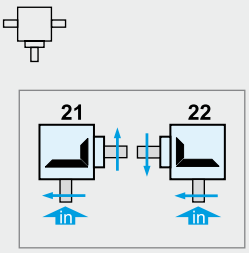
1.03

kg	[kg]	39

OIL	[l]	3.0



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	66.2	*90.0*	1134	*10504*	std	Y	21-22
M	**1.20**	540	66.2	*90.0*	945	*8753*	std	Y	21-22
M	**1.50**		66.2		756	*7003*			
M	**1.93**		51.5	*70.0*	457	*4233*			

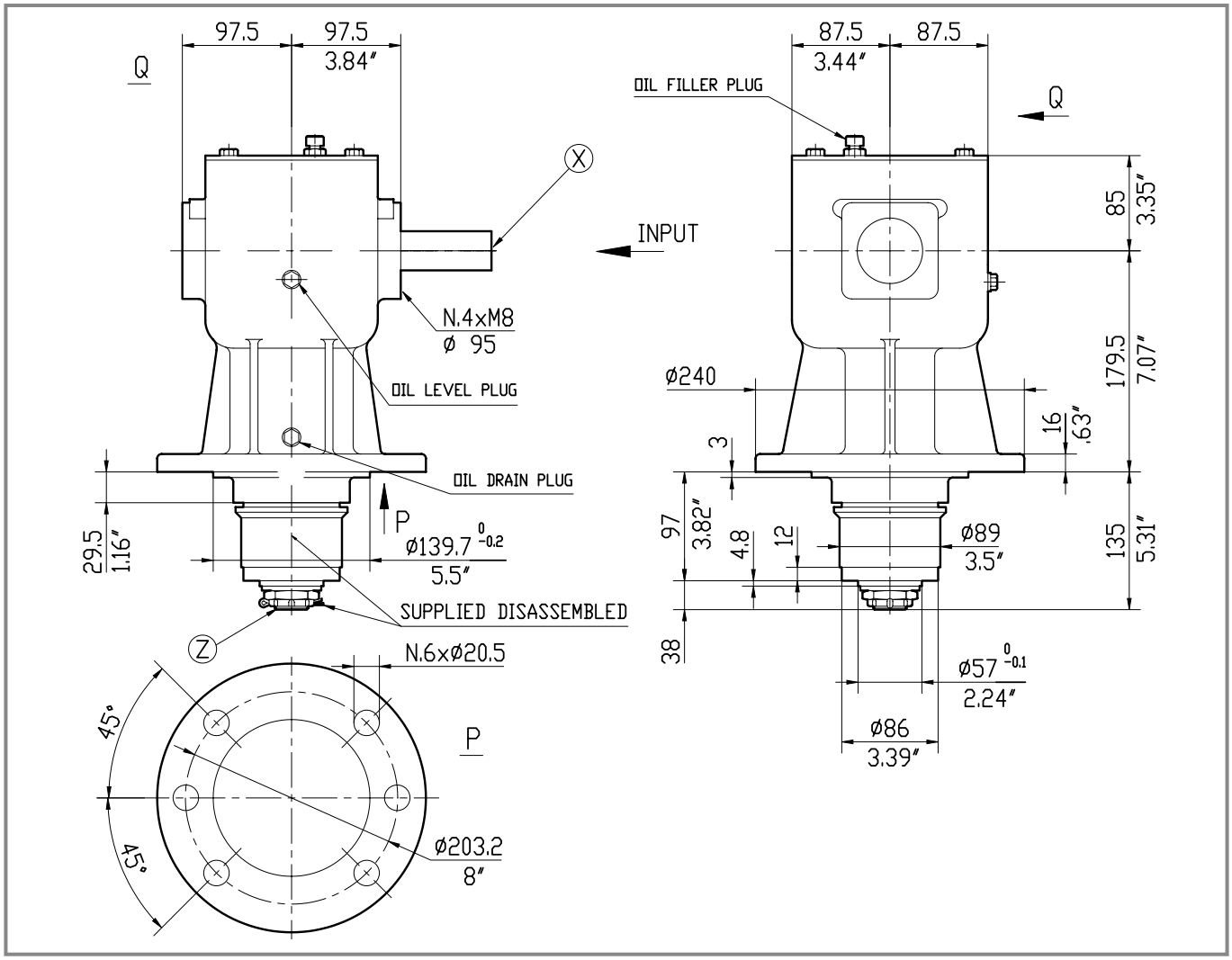


LF-140J

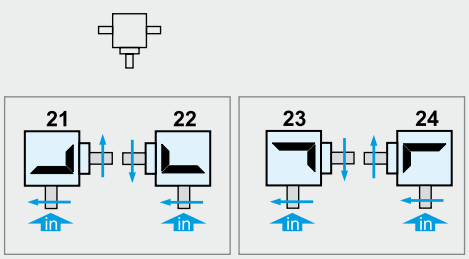
1.03

kg	[kg]	28.5

OIL	[l]	1.4



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.27**	540	**44.0**	*60.0*	324	*2998*	std	X	21-22 / 23-24
M	**1.50**	540	**44.0**	*60.0*	272	*2518*	std	X	21-22 / 23-24
	1.93				211	*1957*			21-22 / 25-26



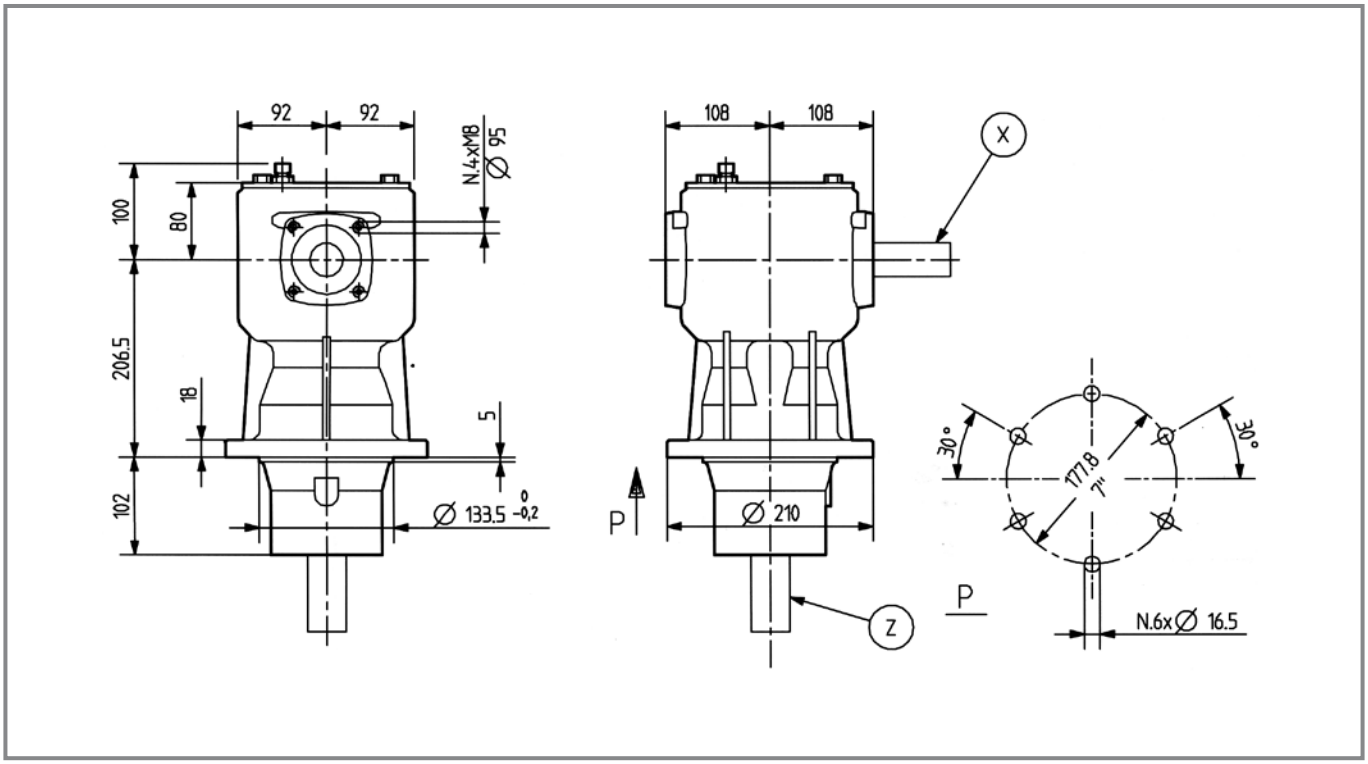
comer industries
gearboxes

LF-149B

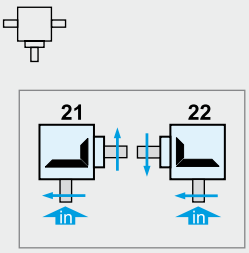
1.03

kg	[kg]	32

OIL	[l]	2.4



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	1000	**66.2**	*90.0*	612	*5672*	std	X	21-22
M	**1.20**	540	**58.8**	*80.0*	857	*7943*	std	X	21-22
	1.35		**58.8**	*80.0*	747	*6924*			
	1.50		**55.1**	*75.0*	643	*5959*			
	1.83		**55.1**	*75.0*	517	*4787*			

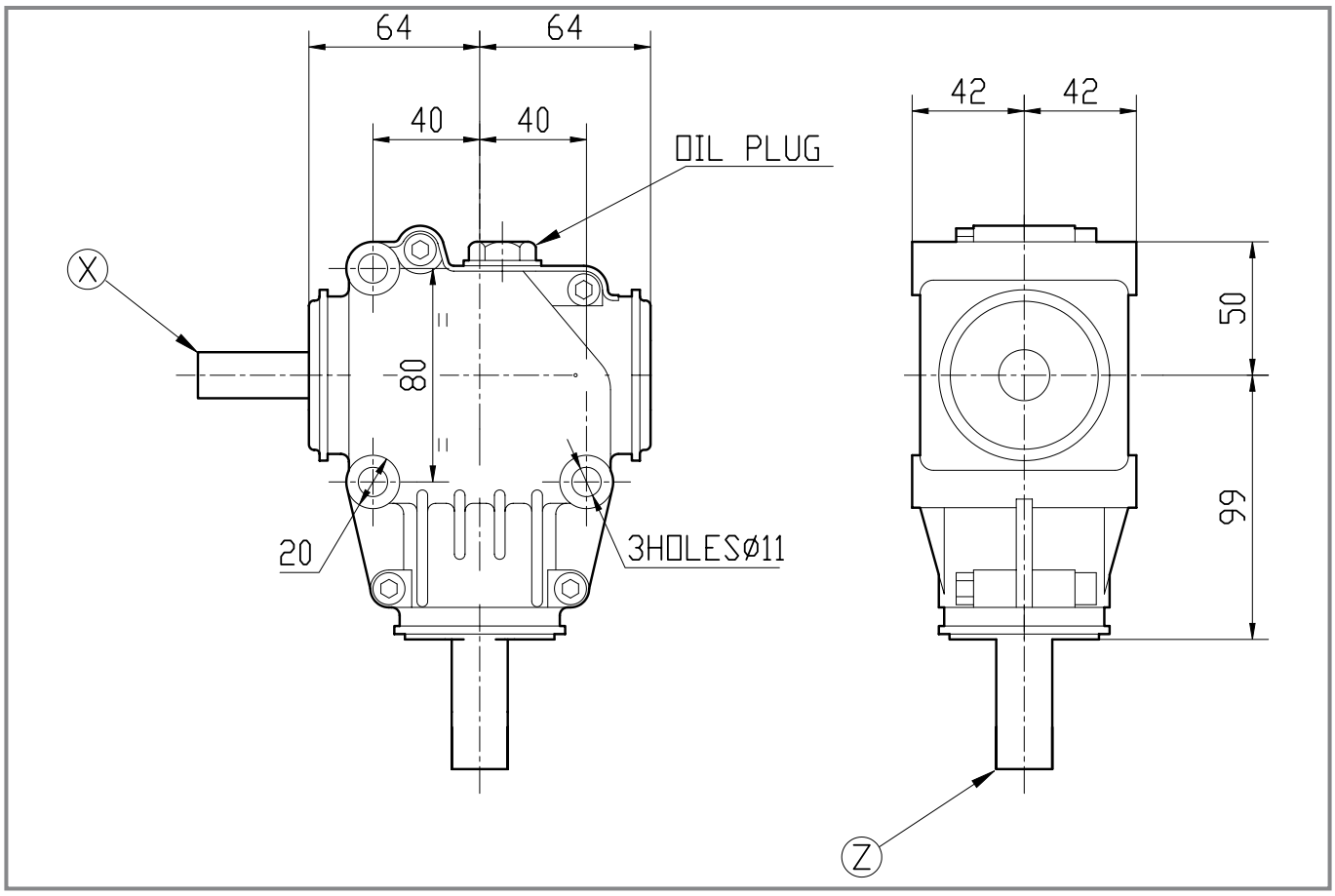


L-150A/B L-150J

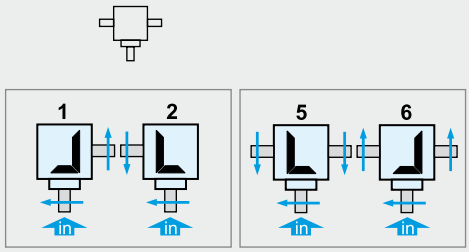
0.00 3.02
Vers. L-150A/B

kg	[kg]	3.5

OIL	[l]	0.21



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
									L-150A/B L-150J
—	**1.00**	540	**11.0**	*15.0*	189	*1749*	std	Z	1-2 / 5-6
									L-150A/B
R	**1.90**	540	-	-	-	-	spec	Z	1-2



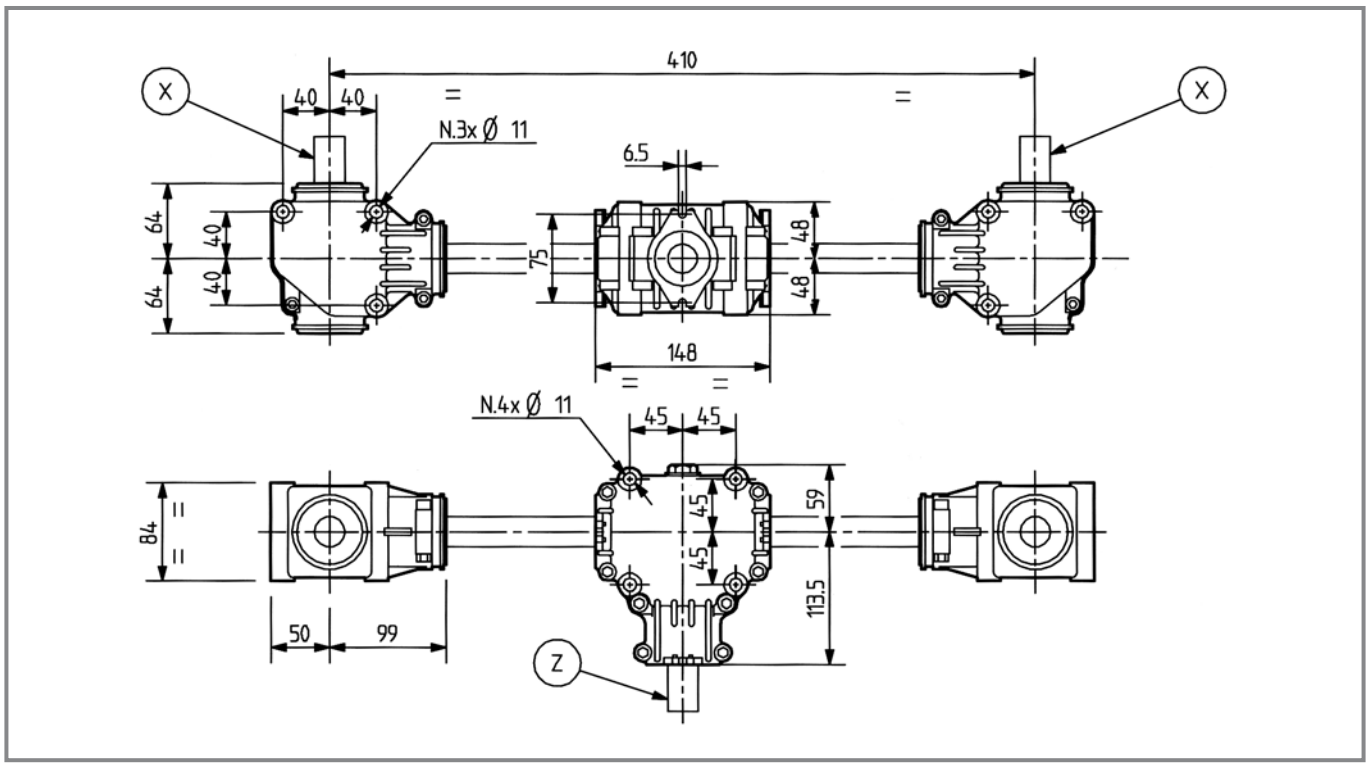
comer industries
gearboxes

L-150C

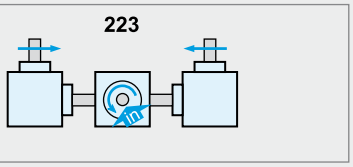
3.02

kg	[kg]	15

OIL	[l]	0.2x3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**15.0**	*20.4*	-	-	std	Z	223
M	**1.35**	540	**9.9**	*13.5*	-	-	std	Z	223
	1.50				-	-			

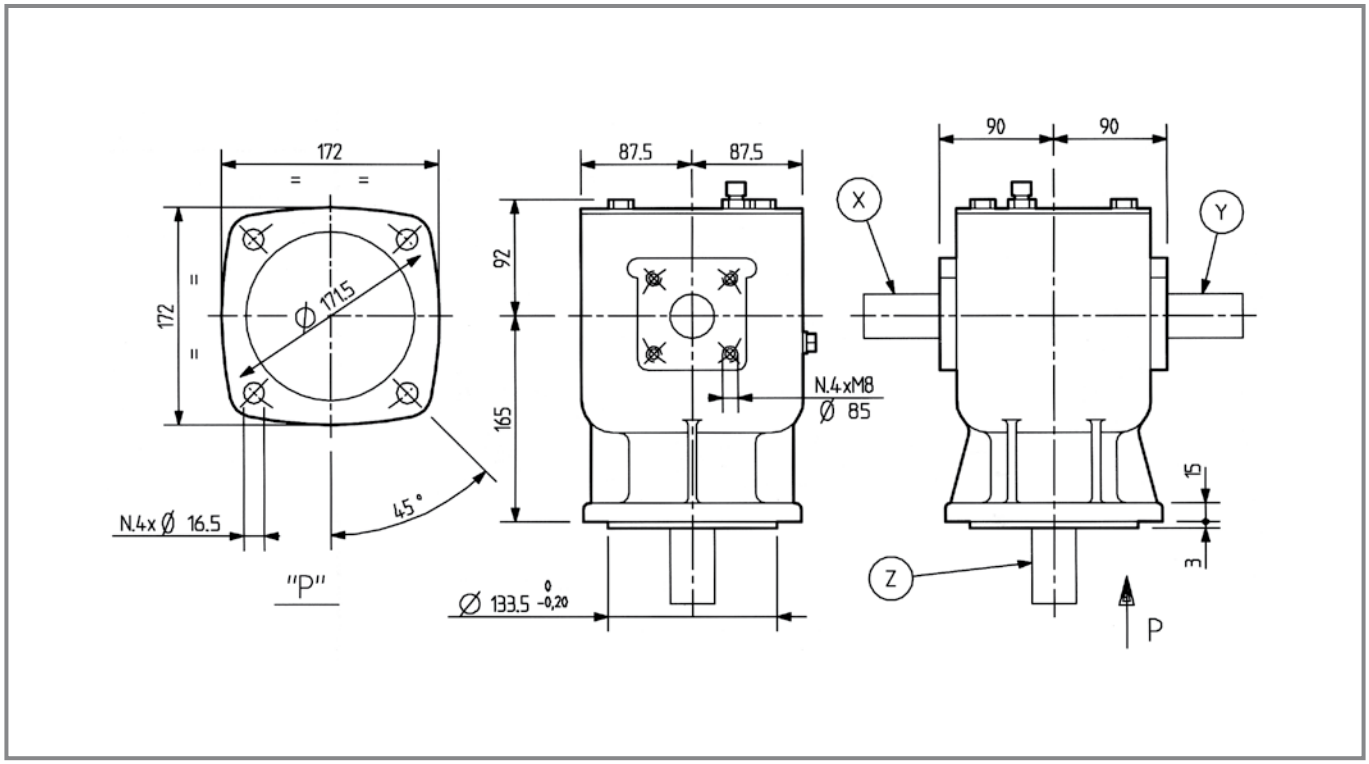


LF-151A

1.03

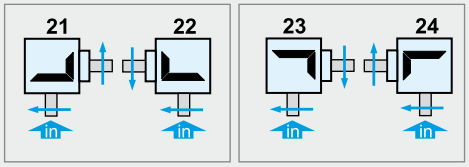
kg	[kg]	21.5

OIL	[l]	1.3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	1.90	540	-	-	-	-	spec	X-Y
	2.54		35.3	48.0	238	2206	std	
	2.83		-	-	-	-	spec	
	3.00		33.1	45.0	189	1751	std	
	3.33		-	-	-	-	spec	

21-22 / 23-24



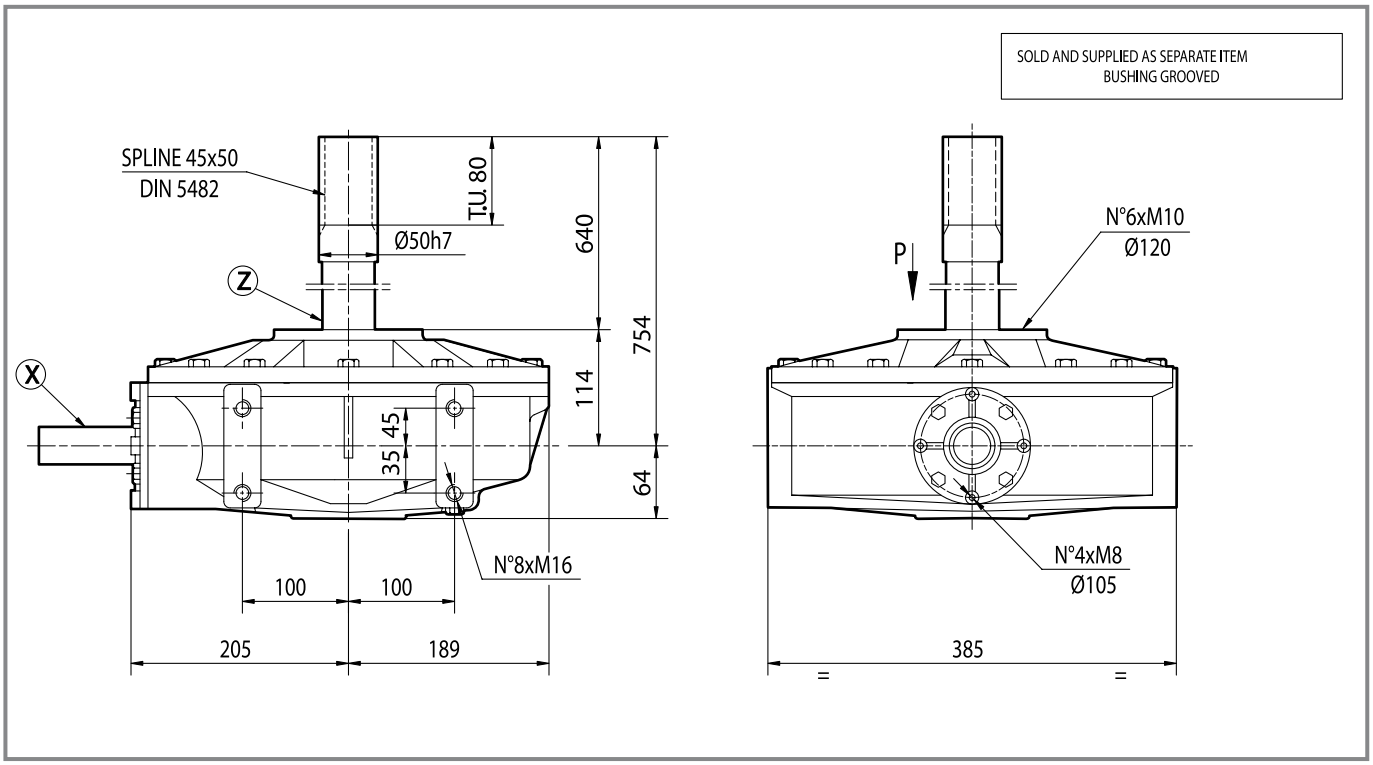
comer industries
gearboxes

L-154J

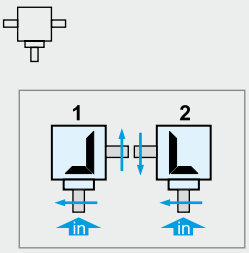
0.00

kg	[kg]	64

OIL	[l]	3.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	7.5	540	19.0	26	260	23026	std	Z	1-2

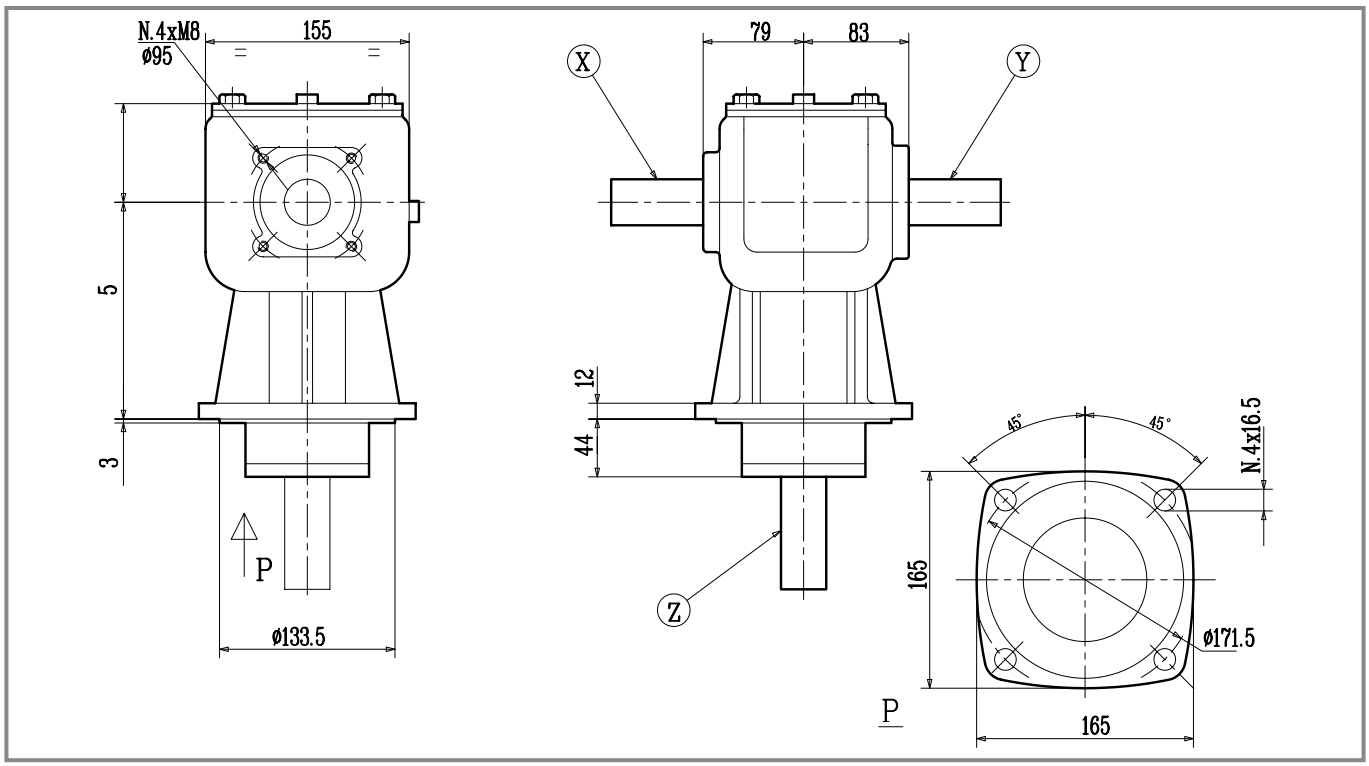


LF-205J

1.03

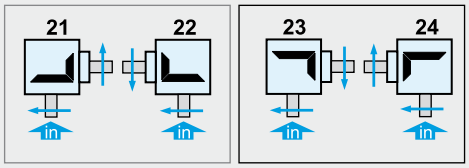
kg	[kg]	16

OIL	[l]	0.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	1.92	540	22.0	30	-	-	std	X
	1.47		29.4	40	-	-		

21-22 / 23-24



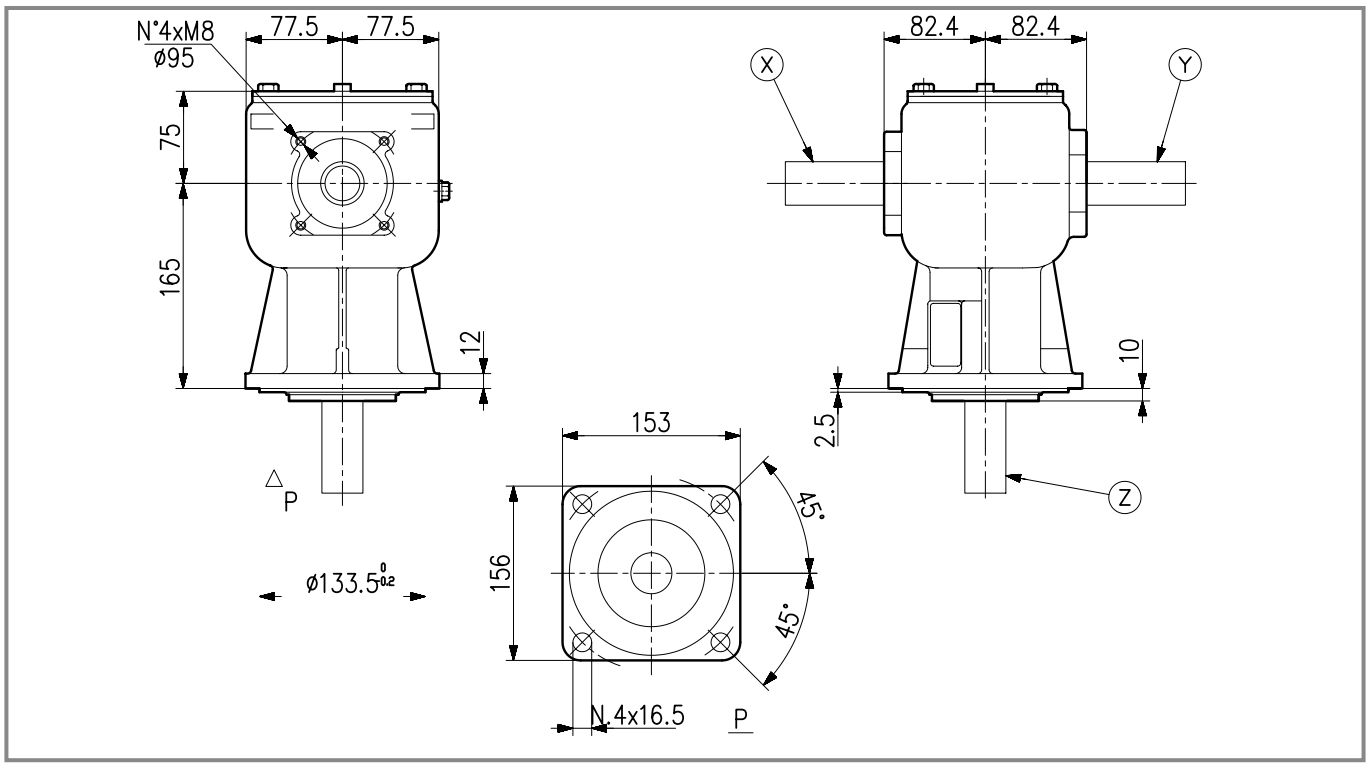
comer industries
gearboxes

LF-211J

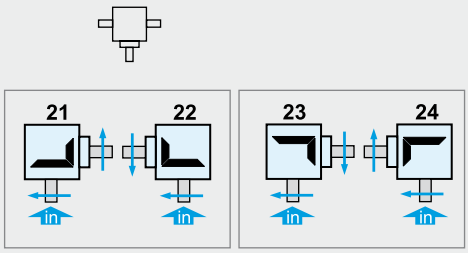
1.02

kg	[kg]	14

OIL	[l]	0.5

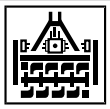


	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	2.50	540	14.7	20.0	-	-	std	X	21-22 / 23-24
	2.83				-	-			



LV-221F

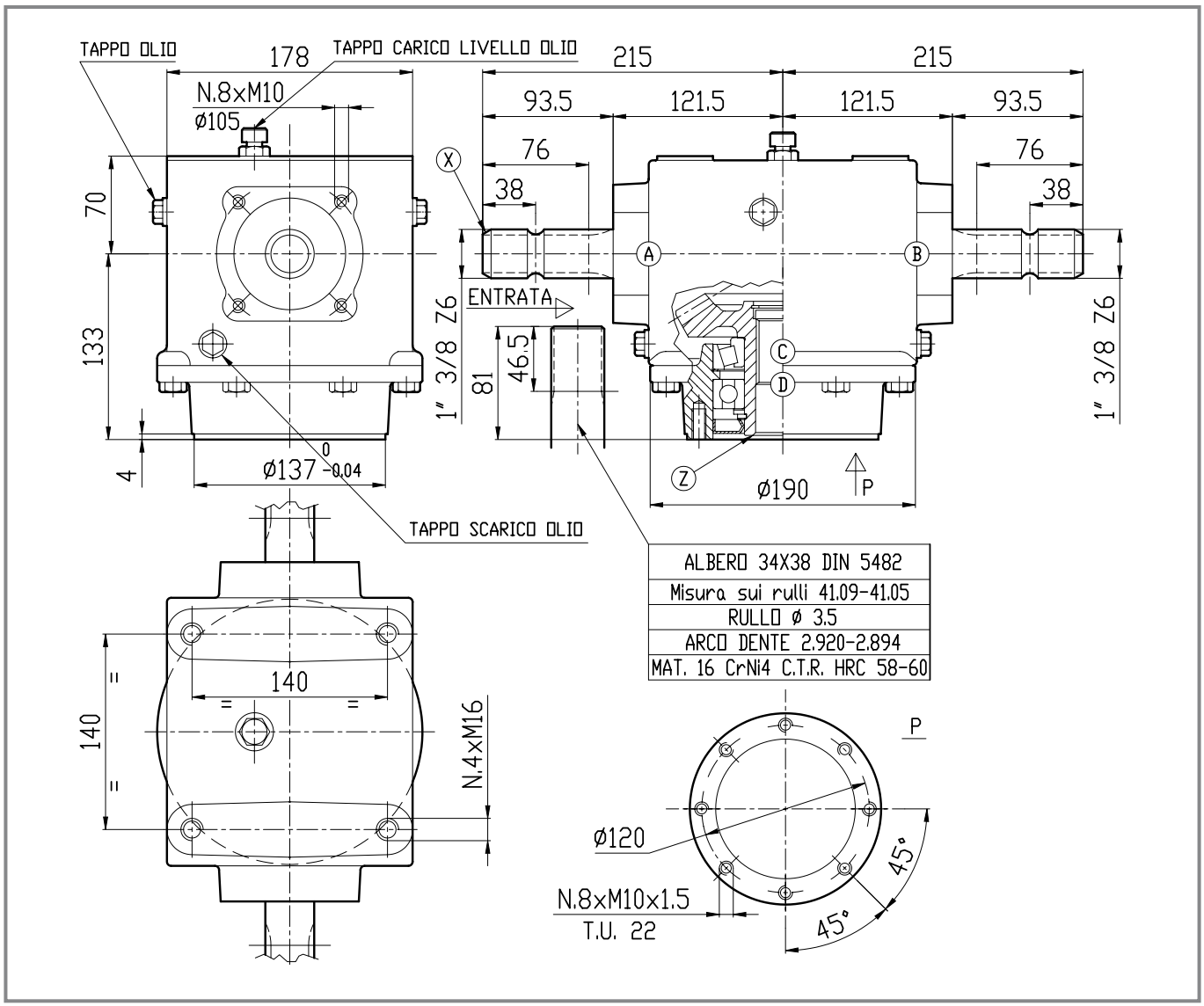
2.02



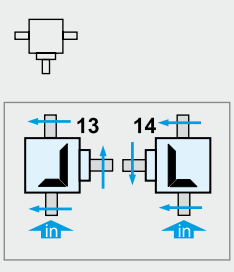
2.01
Vers. LZ-221F

kg	[kg]	26

OIL	[l]	-



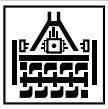
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.78	540	33.0	45.0	-	-	std	X	13-14



comer industries
gearboxes

LV-221J

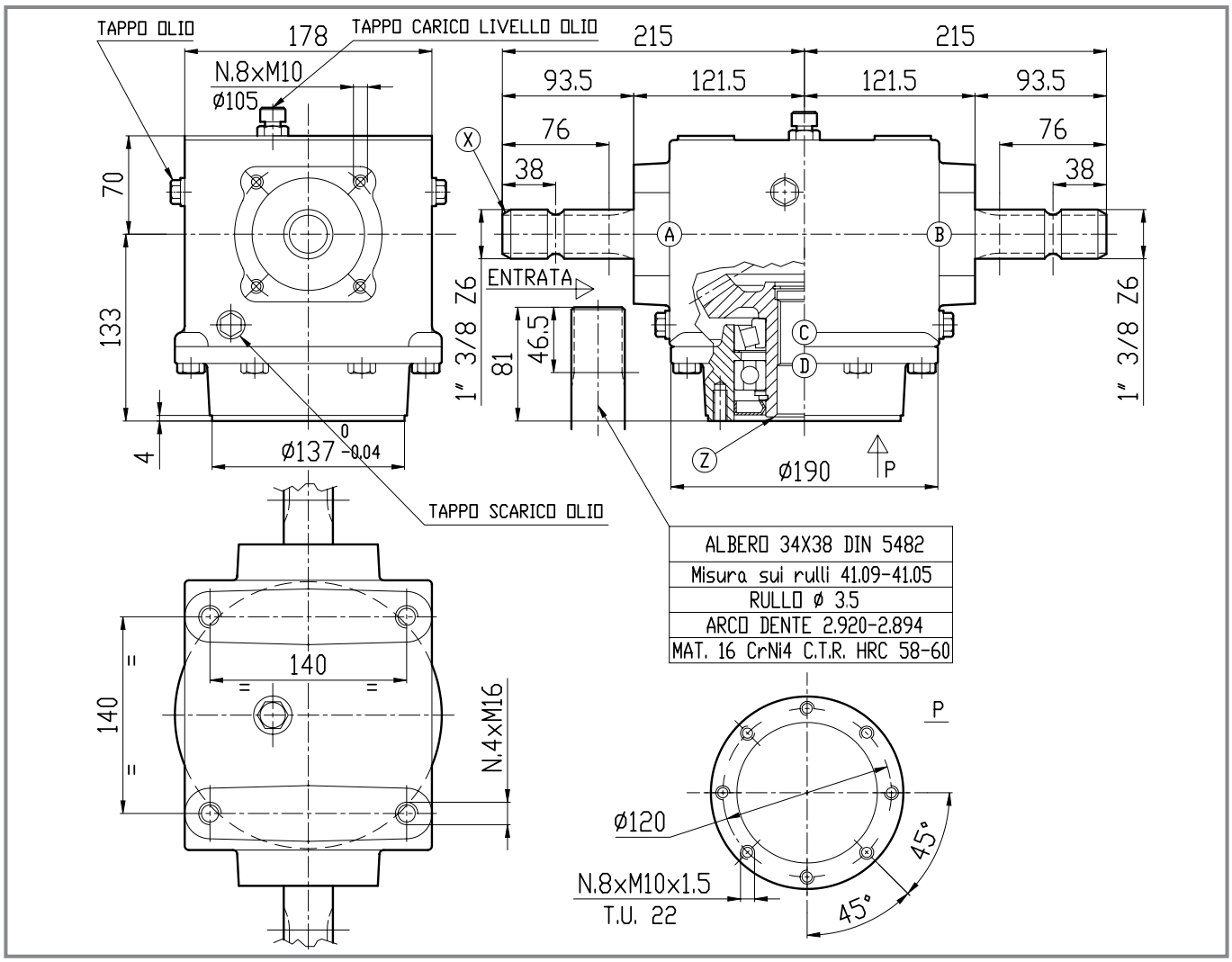
2.02



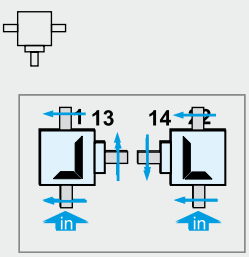
2.01
Vers. LZ-221F

kg	[kg]	26

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.78	540	33.0	45.0	-	-	std	X	13-14

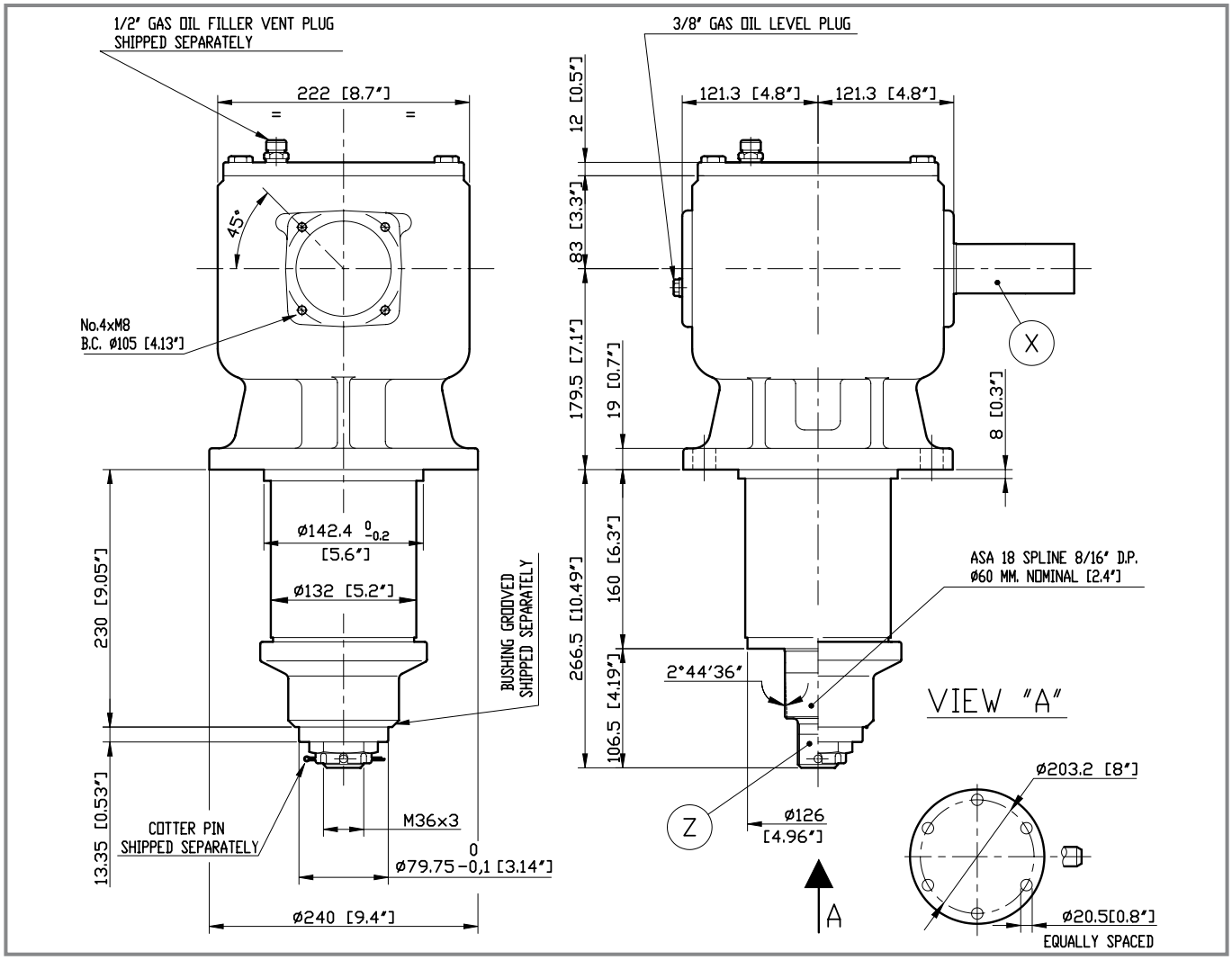


LF-225J

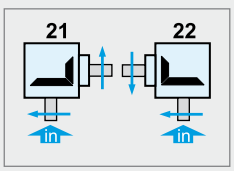
1.03

kg	[kg]	52

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.35	1000	74.6	100	-	-	std	X	21-22
	1.56	540			-	-			
	1.83				-	-			



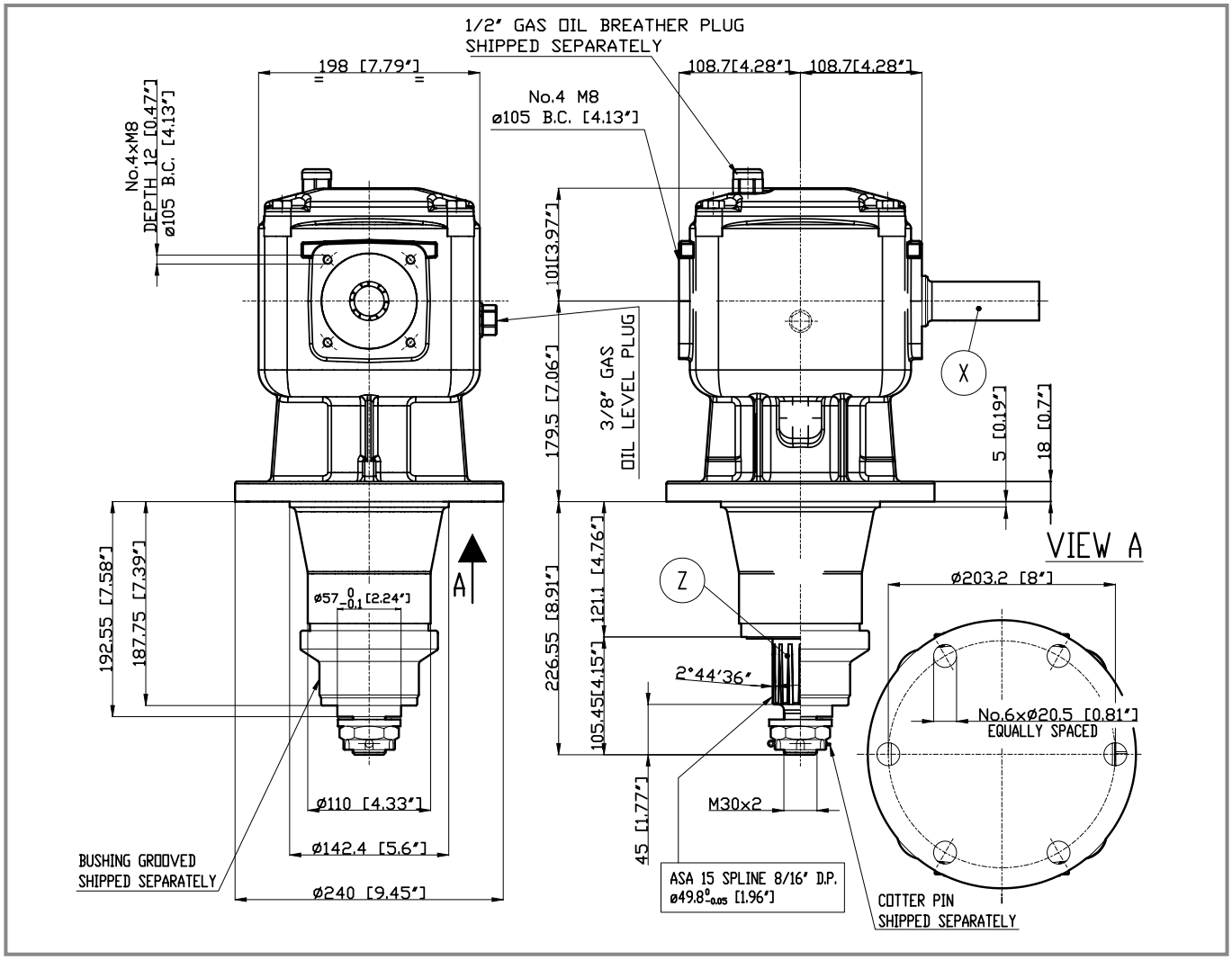
comer industries
gearboxes

LF-227J

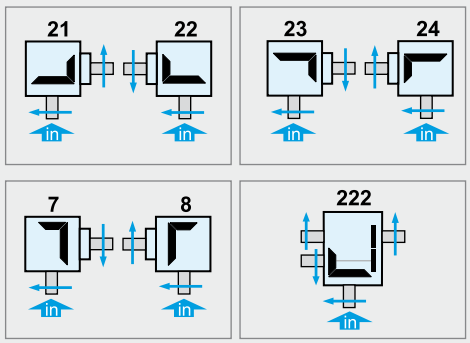
1.03

kg	[kg]	39.3

OIL	[l]	2.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**55.1**	*75.0*	94.6	*8378*	std	X	21-222-23-24
M	**1.22**	540	**55.1**	*75.0*	77.5	*6963*	std	X	21-22 / 23-24
	1.35				70.1	*6208*			21-22 / 23-24
	1.44				65.7	*5818*			21-22
	1.50				63.01	*5580*			21-22 / 23-24
	1.69				56.0	*4959*			21-22
	1.83				51.7	*4579*			21-22
R	**1.22**	1000	**55.1**	*75.0*	63.3	*5517*	std	X	7/8
	1.35				69	*6111*			7/8



T-19

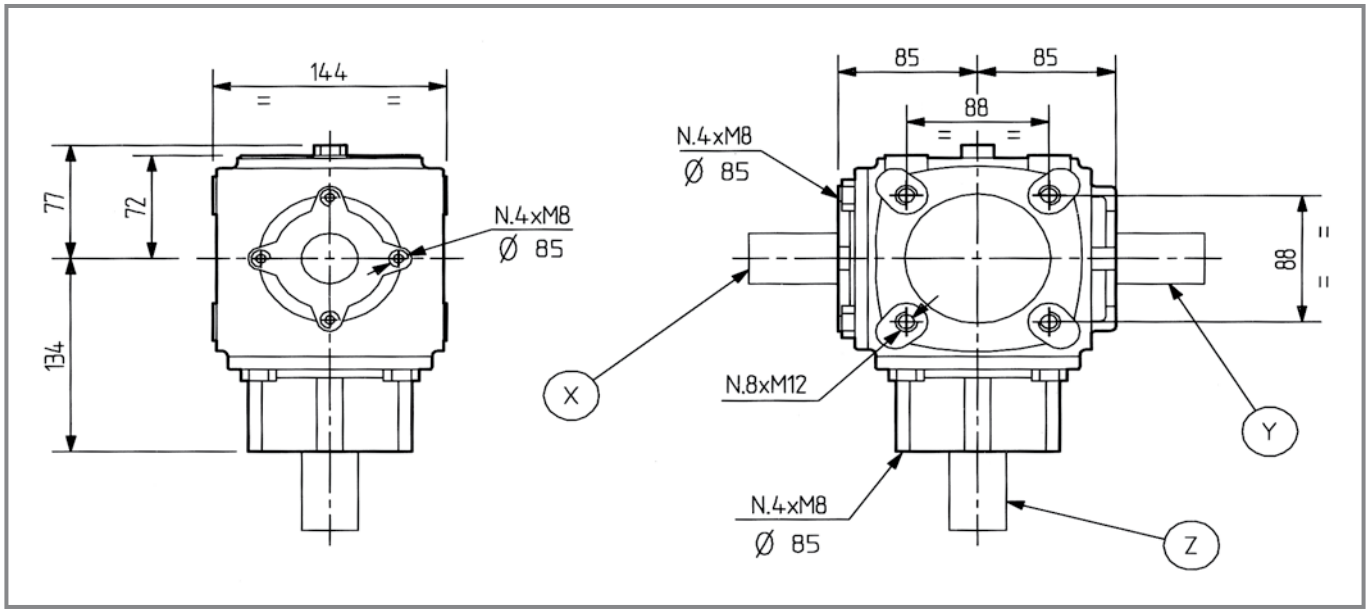
Code **259**

kg	[kg]	14

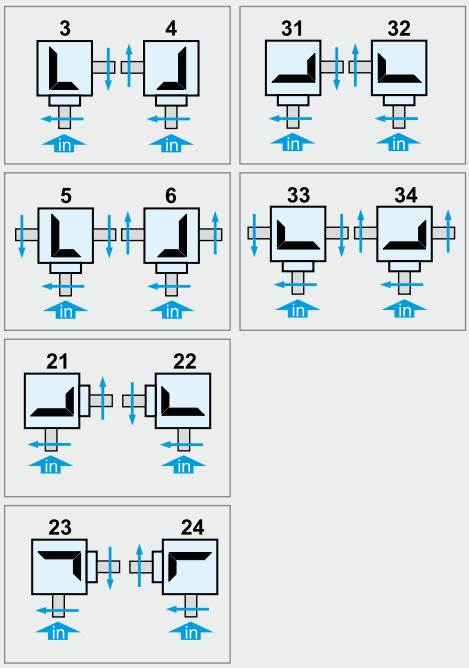
OIL	[l]	0.9

0.00

3.02
Vers. TB-19E



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	16.9	*23.0*	290	*2684*	std	Z	1-2 / 3-4 / 5-6
	1.00		24.3	*33.0*	416	*3852*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	-	-	-	-	spec	-	-
	1.46		20.6	*28.0*	241	*2238*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	1.84		14.7	*20.0*	137	*1269*	std	X-Y	21-22 / 23-24 25-26 / 27-28 31-32 / 33-34
	2.17		10.3	*14.0*	81	*753*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	2.91		7.7	*10.5*	45	*421*	std	X-Y	
	1.84		14.7	*20.0*	137	*1269*	std	X-Y	
R	**1.35**	540	-	-	-	-	spec	-	-
	1.46		11.8	*16*	294	*2726*	std	Z	1-2 / 3-4 / 5-6
	1.84		8.8	*12*	278	*2577*	std	Z	
	2.17		6.6	*9*	246	*2279*	std	Z	1-2
	2.91		3.7	*5*	183	*1698*	std	Z	1-2 / 3-4 / 5-6



NOTA: T-19-A Versione pesante
NOTE: T-19-A heavy duty version

NOTA: T-19-B Versione leggera
NOTE: T-19-B light duty version

comer industries
gearboxes

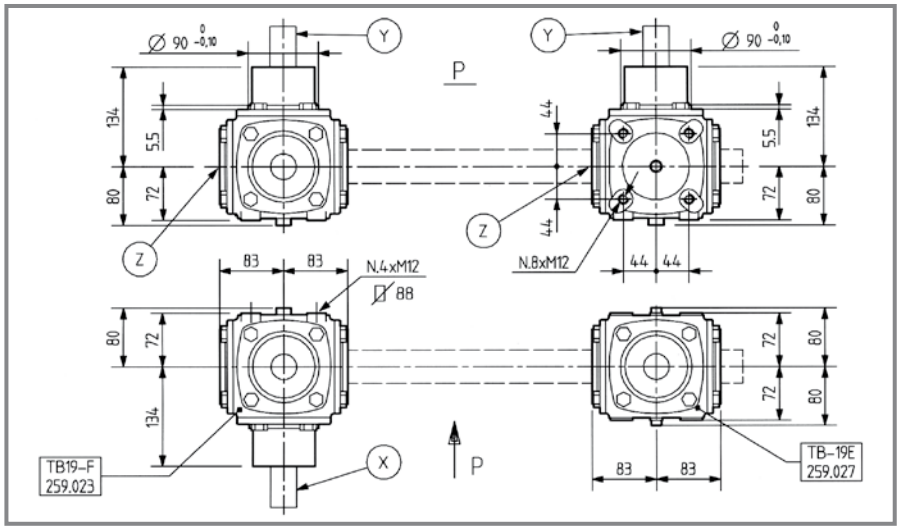
T-19I/H/L

Code **259**

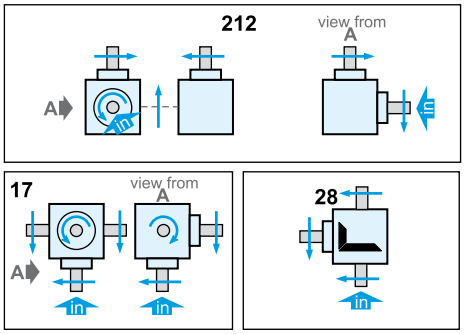
kg	[kg]	-

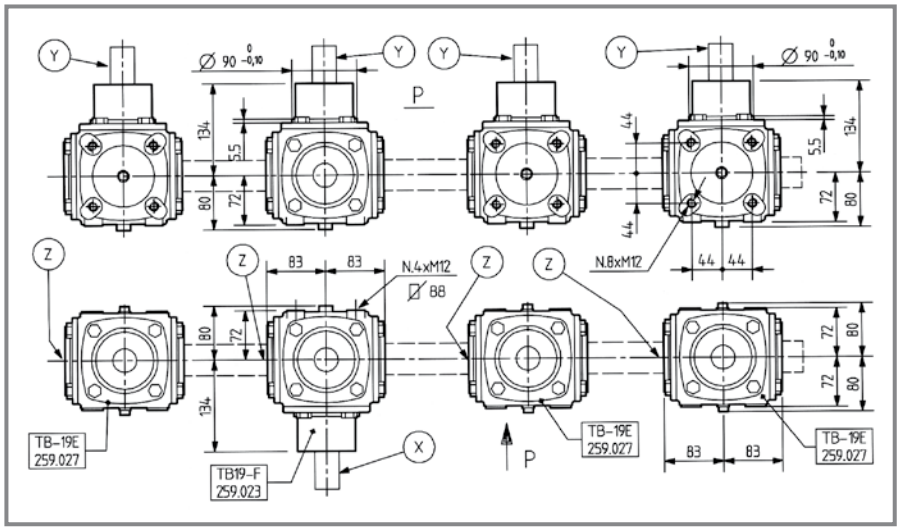
OIL	[l]	-

1.04

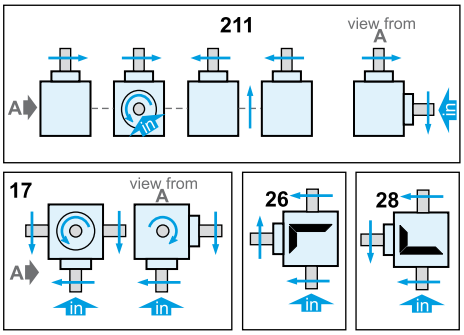


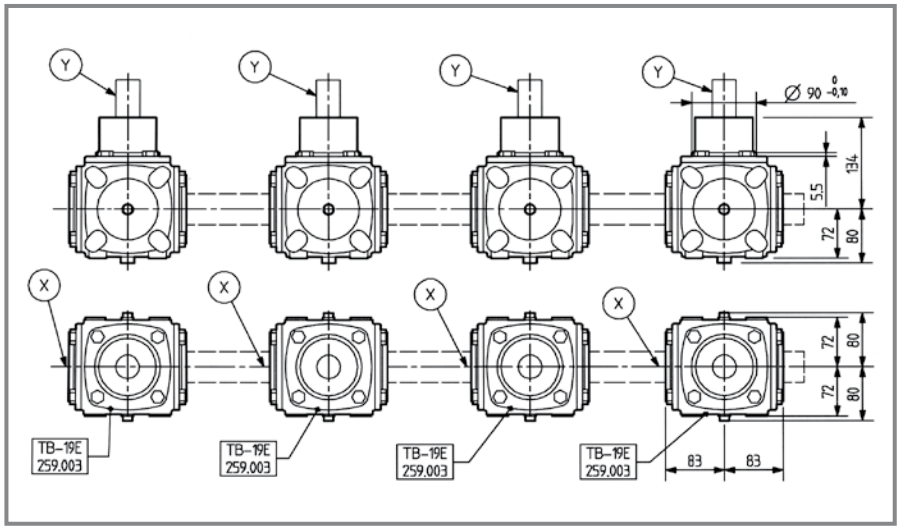
T-19I



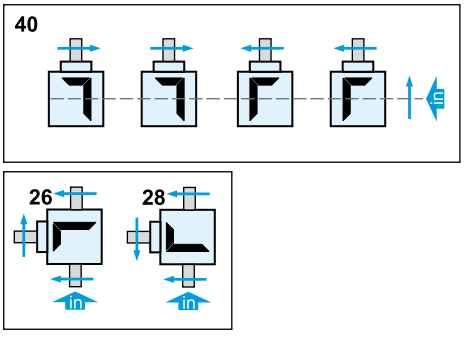


T-19H





T-19L



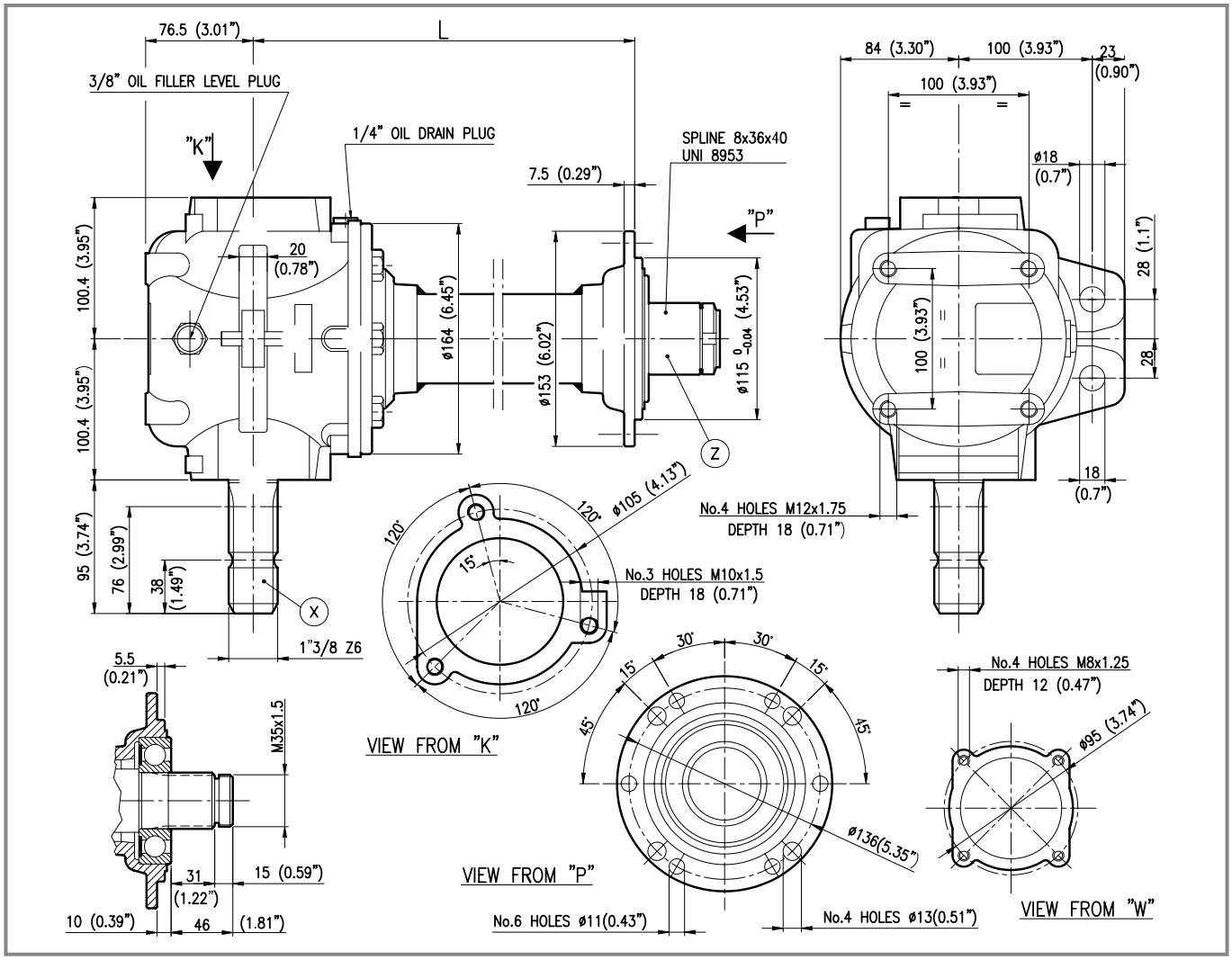
TLZ-21J

Code **261**

kg	[kg]	-

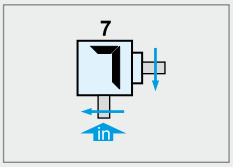
OIL	[l]	-

2.01



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
R	**1.46**	540	**29.4**	*40.0*	736	*6514*	std	X	400	-
									500	-
									600	-
									700	-
									800	-
									900	-

7



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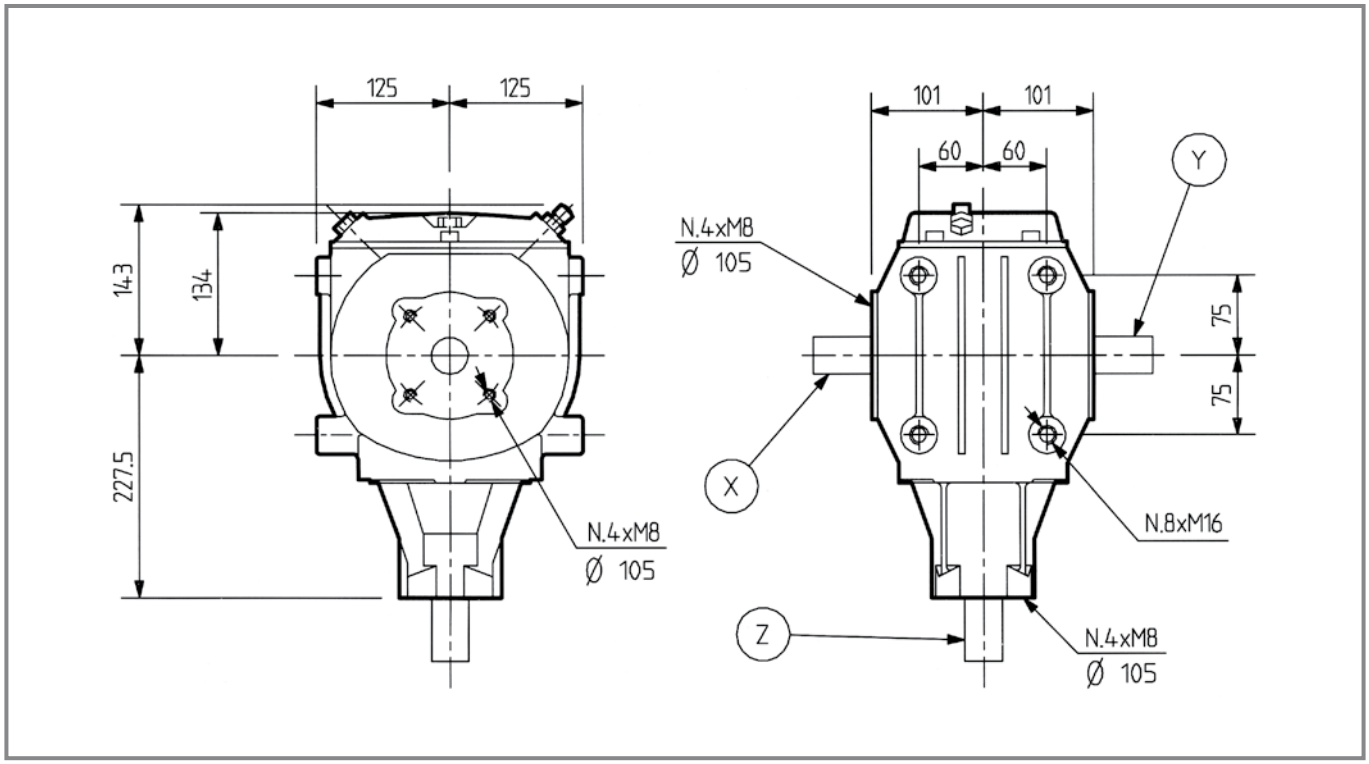
T-22A

Code **262**

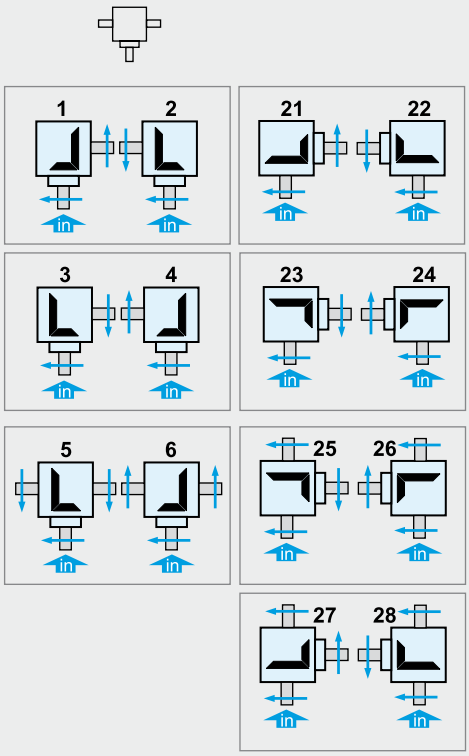
kg	[kg]	29

OIL	[l]	3.1

0.00 | 2.04 Vers. T-22F | 5.03 Vers. T-22D



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.60	540	-	-	-	-	spec	X-Y	-
	1.93		72.1	98.0	640	5926	std	Y	21-22 / 23-24
	1.93		72.1	98.0	640	5926		X-Y	25-26 / 27-28
	2.42		62.6	85.0	442	4099		Y	21-22 / 23-24
	2.42		62.6	85.0	442	4099		X-Y	25-26 / 27-28
	3.00		62.6	85.0	357	3307		Y	21-22 / 23-24
	3.00		62.6	85.0	357	3307		X-Y	25-26 / 27-28
	4.11		44.2	60.0	184	1704		Y	21-22 / 27-28
	5.25		-	-	-	-	spec	X-Y	-
	6.14		36.8	50.0	102	950	std	Y	21-22 / 27-28
R	1.60	540	-	-	-	-	spec	Z	-
	1.93		60.4	82.0	1995	18471	std		1-2 / 3-4 / 5-6
	2.42		47.8	65.0	1984	18368			
	3.00		39	53.0	2005	18567			
	4.11		27.2	37.0	1917	17749			
	5.25		-	-	-	-	spec		-
	6.14		14.7	20.0	1548	14332	std		1-2 / 3-4 / 5-6



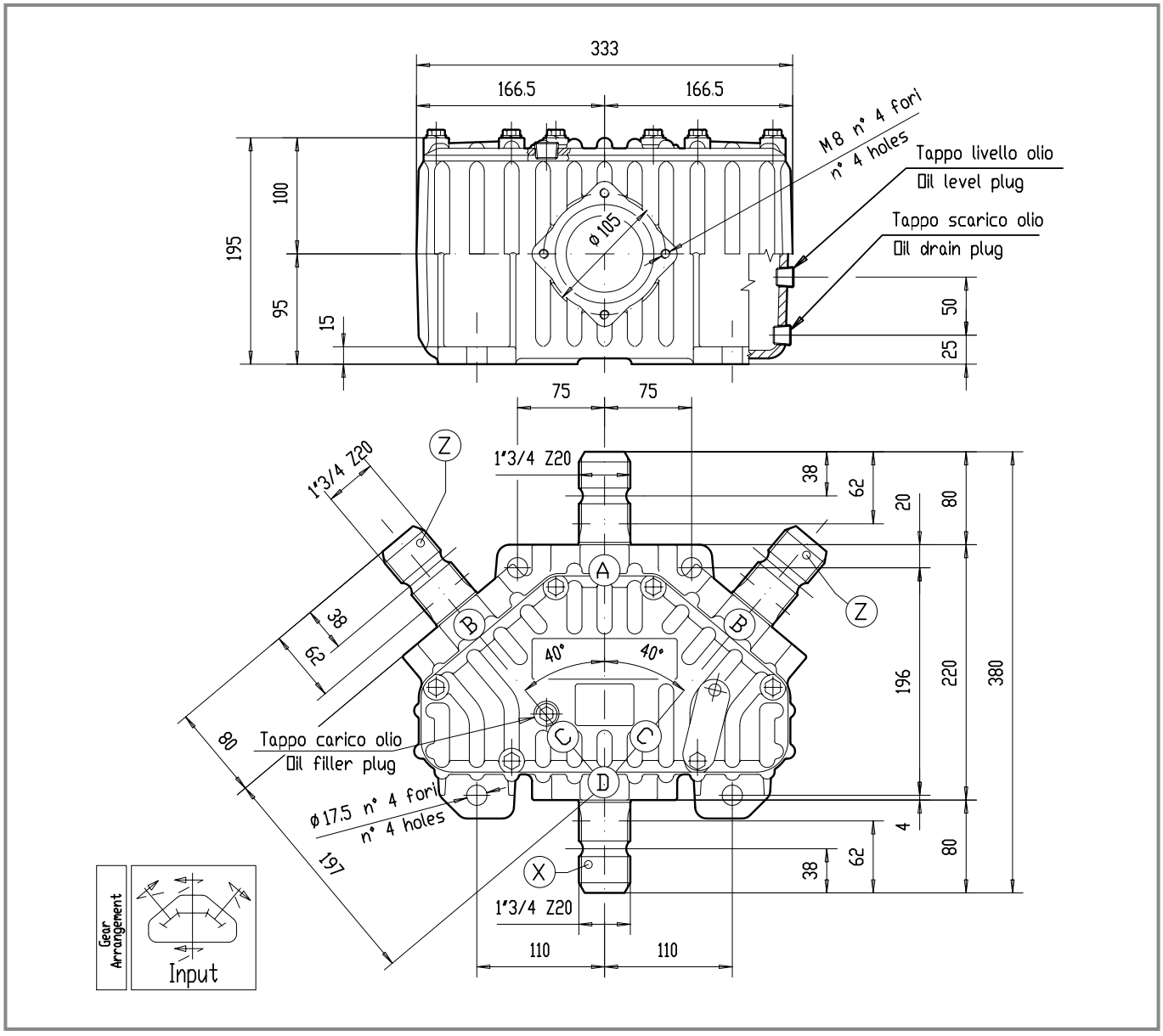
T-25J

1.03

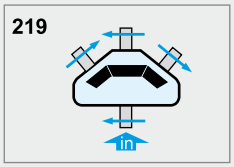
Code **265**

kg	[kg]	39.5

OIL	[l]	1.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.20**	540	**93.1**	*125*	-	-	std	X	219
R	**1.20**	1000	**130**	*175*	-	-	std	X	219



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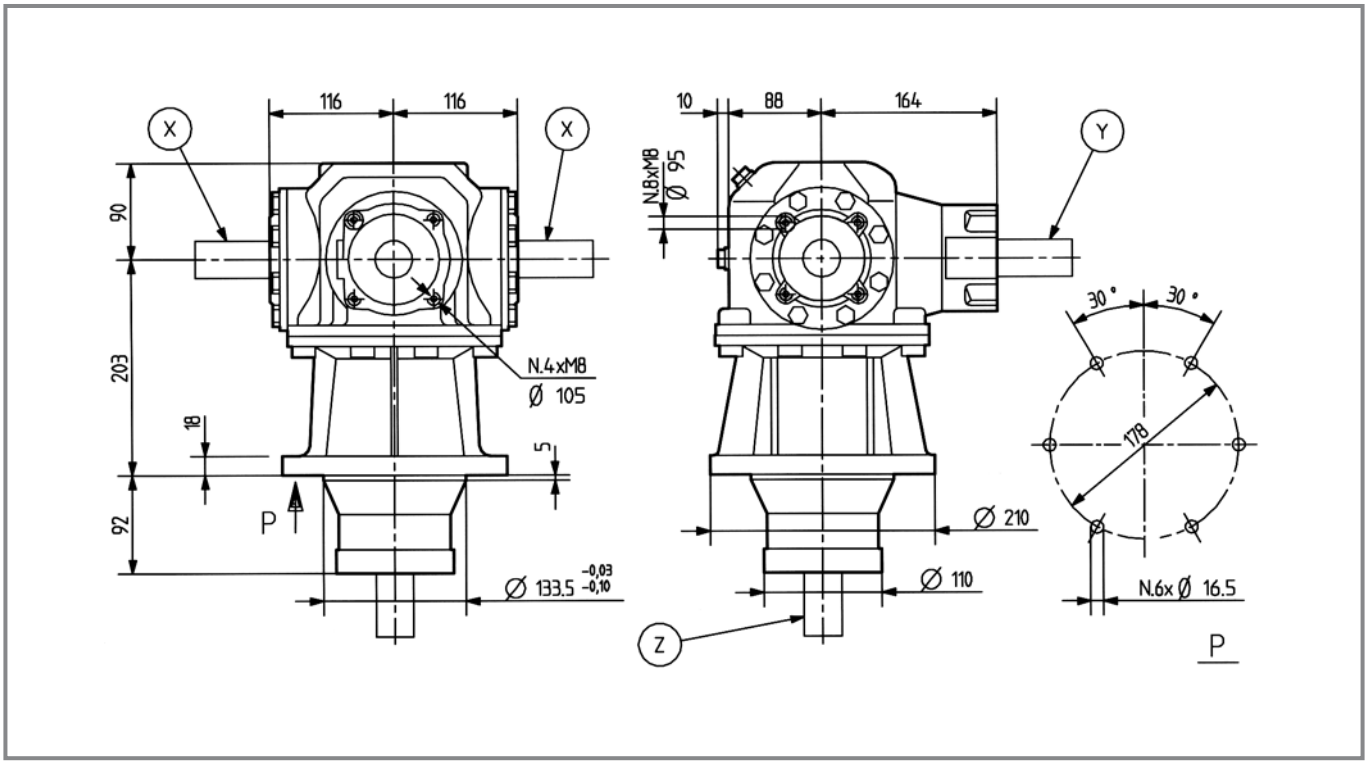
TF-26A

1.03

Code **266**

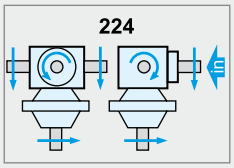
kg	[kg]	34

OIL	[l]	2.2



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.26**	540	-	-	-	-	spec	Y
	1.85		**66.2**	*90.0*	613	*5678*	std	
	2.00		-	-	-	-	spec	

224



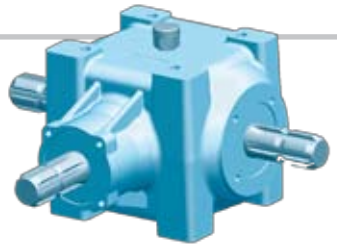
T-27A

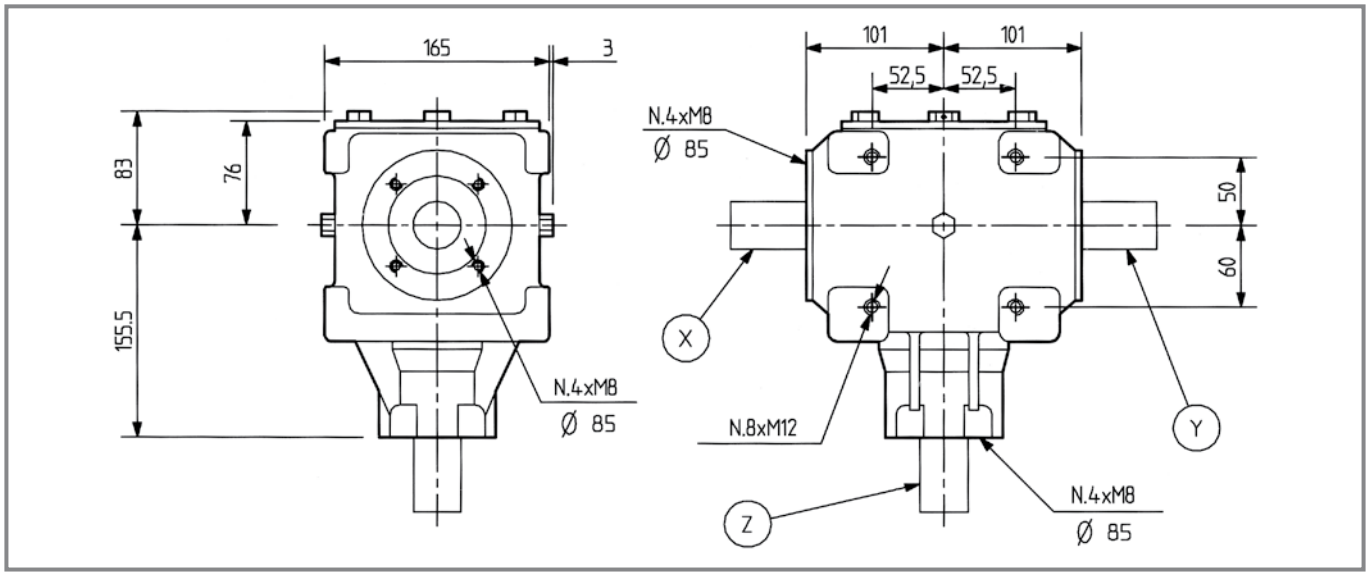
Code **267**

kg	[kg]	21

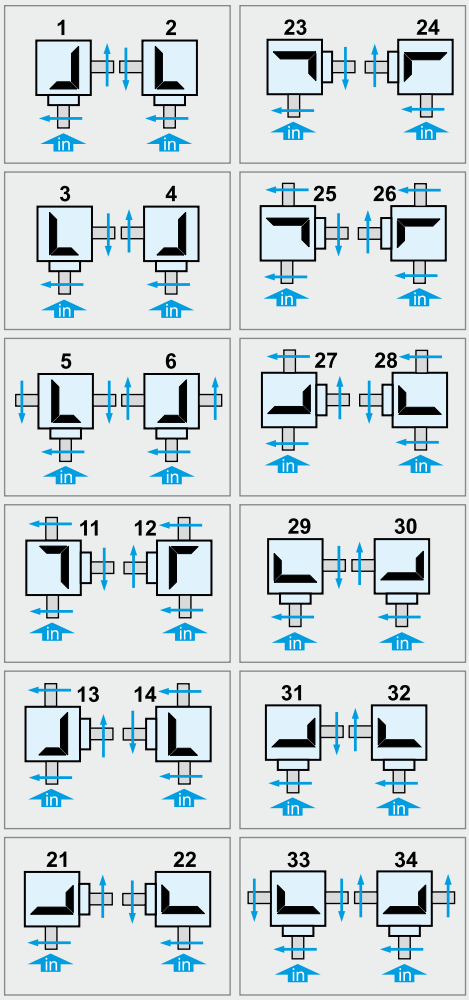
OIL	[l]	1.2

0.00





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**28.0**	*38.0*	479	*4435*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	-	-	-	-	-	spec	-	-
	1.44	540	**27.2**	*37.0*	324	*2999*	std	Z	29-30 / 31-32 33-34
	1.46		**30.9**	*42.0*	366	*3357*		X-Y-Z	21-22 / 23-24 25-26 / 33-34
	1.60		-	-	-	-	spec	-	-
	1.83		-	-	-	-		-	-
	1.92		**22.1**	*30.0*	197	*1824*	std	X-Y-Z	21-22 / 23-24 25-26 / 27-28
R	**1.28**	540	-	-	-	-	spec	-	-
	1.35		**24.3**	*33.0*	607	*5623*	std	Z	1-2 / 31-32
	1.46								1-2 / 3-4 / 5-6
	1.46		**29.4**	*40.0*	736	*6816*			11-12 / 13-14
	1.60		-	-	-	-	spec	-	-
	1.83		-	-	-	-		-	-
	1.92		**15.1**	*20.5*	496	*4594*	std	X-Y-Z	1-2 / 3-4 / 5-6 11-12 / 13-14



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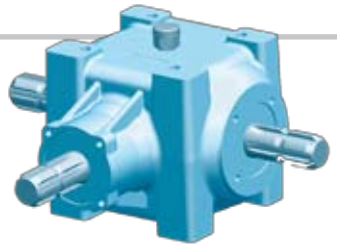
T-27J

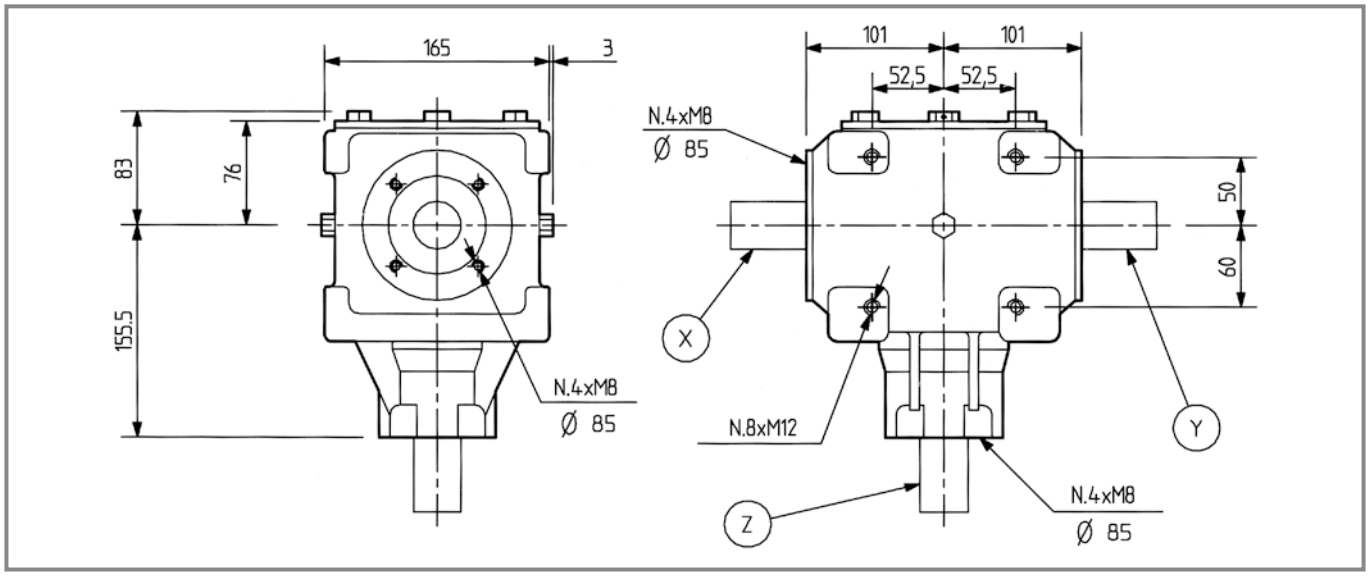
Code **267**

kg	[kg]	21

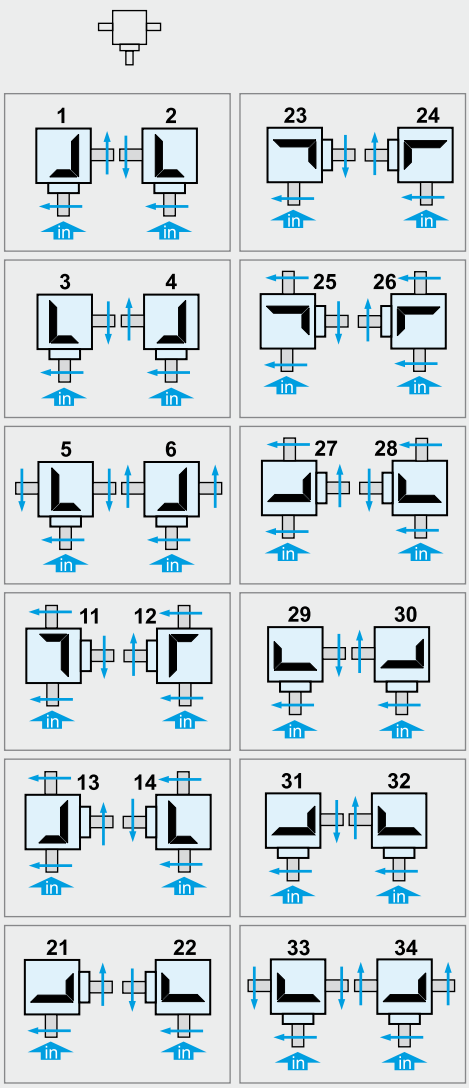
OIL	[l]	1.2

0.00





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**28.0**	*38.0*	479	*4435*	std	Z	1-2 / 3-4 / 5-6
M	**1.46**		**30.9**	*42.0*	366	*3357*		X-Y-Z	21-22 / 23-24 25-26 / 33-34
	1.92		**22.1**	*30.0*	197	*1824*	std	X-Y-Z	21-22 / 23-24 25-26 / 27-28
R	**1.35**		**24.3**	*33.0*	607	*5623*	std	Z	1-2 / 31-32
	1.46							Z	1-2 / 3-4 / 5-6
	1.46		**29.4**	*40.0*	736	*6816*			11-12 / 13-14
	1.92		**15.1**	*20.5*	496	*4594*	std	X-Y-Z	1-2 / 3-4 / 5-6 11-12 / 13-14

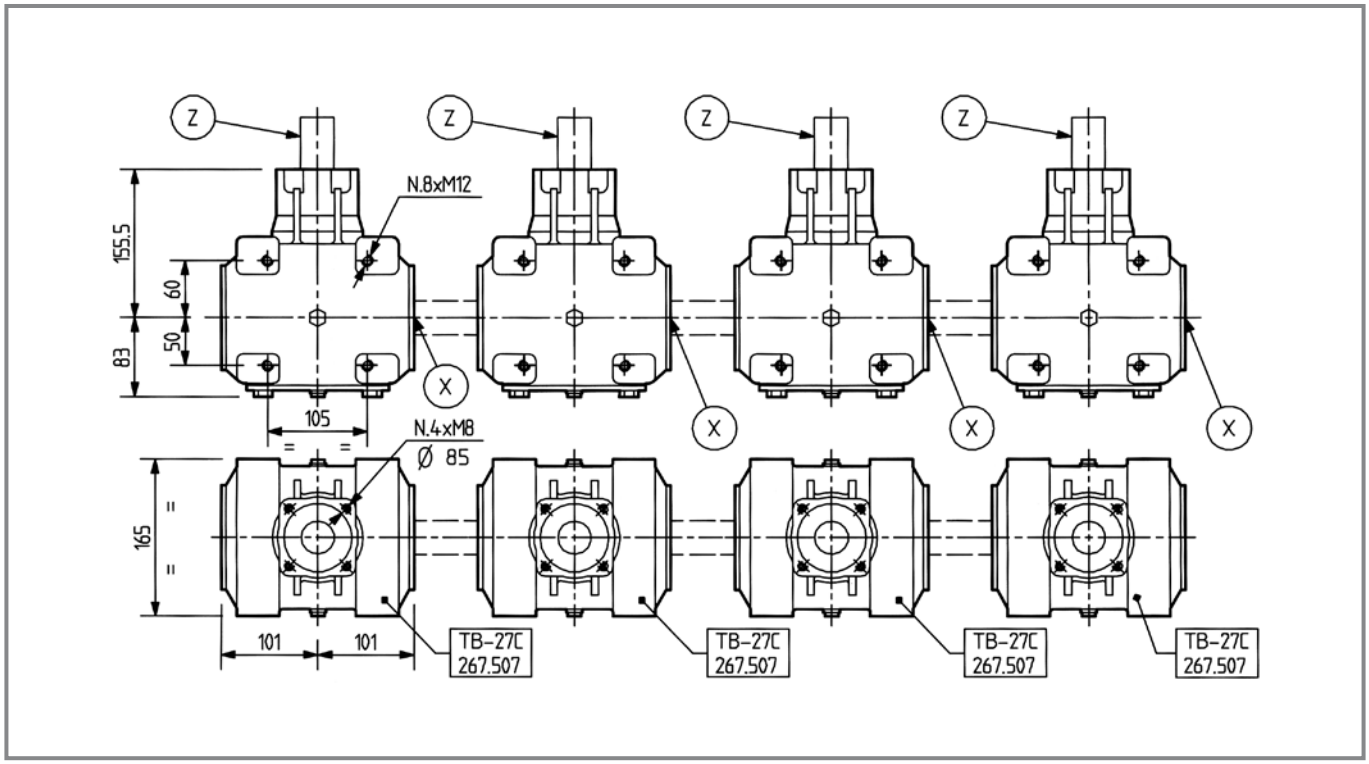


TB-27C

1.04

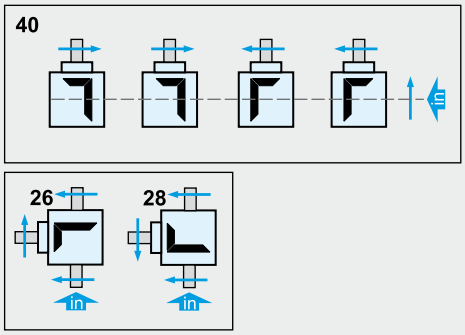
kg	[kg]	-

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	1.00	540	40.5	55.0	693	6419	std	X

26-28 / 40



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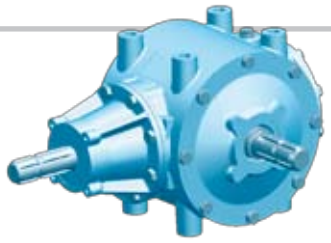
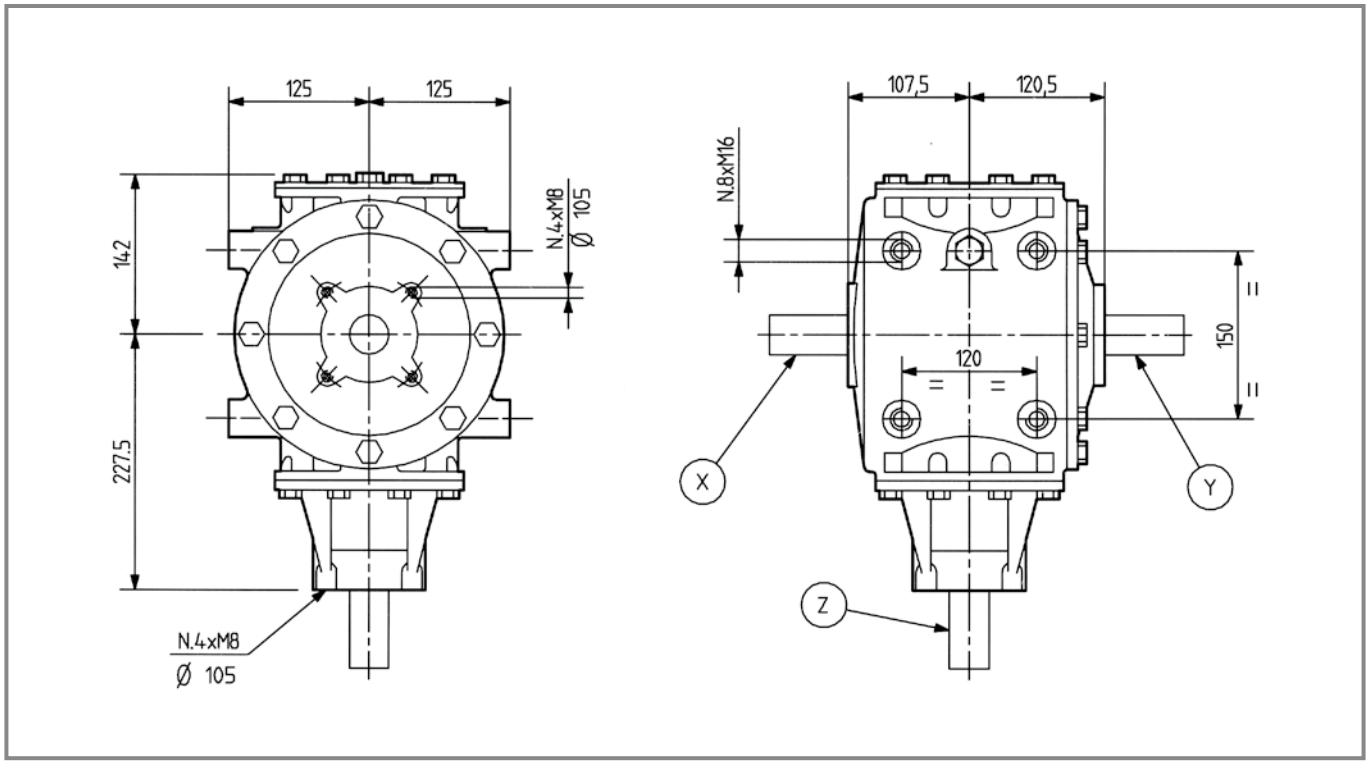
T-269A

0.00

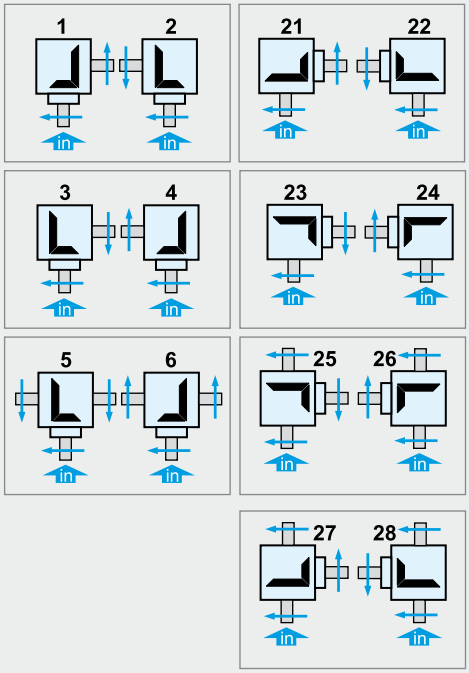


kg	[kg]	48

OIL	[l]	3.25



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**73.6**	*100*	1261	*11671*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	-	-	-	-	spec	X-Y	-
	1.42		**77.3**	*105*	932	*8630*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	1.63		-	-	-	-	spec	-	-
	1.93		-	-	-	-		-	-
	3.00		-	-	-	-		-	-
R	**1.35**	540	-	-	-	-	spec	Z	-
	1.42		**66.2**	*90.0*	1611	*14916*	std	Z	1-2 / 3-4 / 5-6
	1.63		-	-	-	-	spec	-	-
	1.93		-	-	-	-		-	-
	3.00		-	-	-	-		-	-

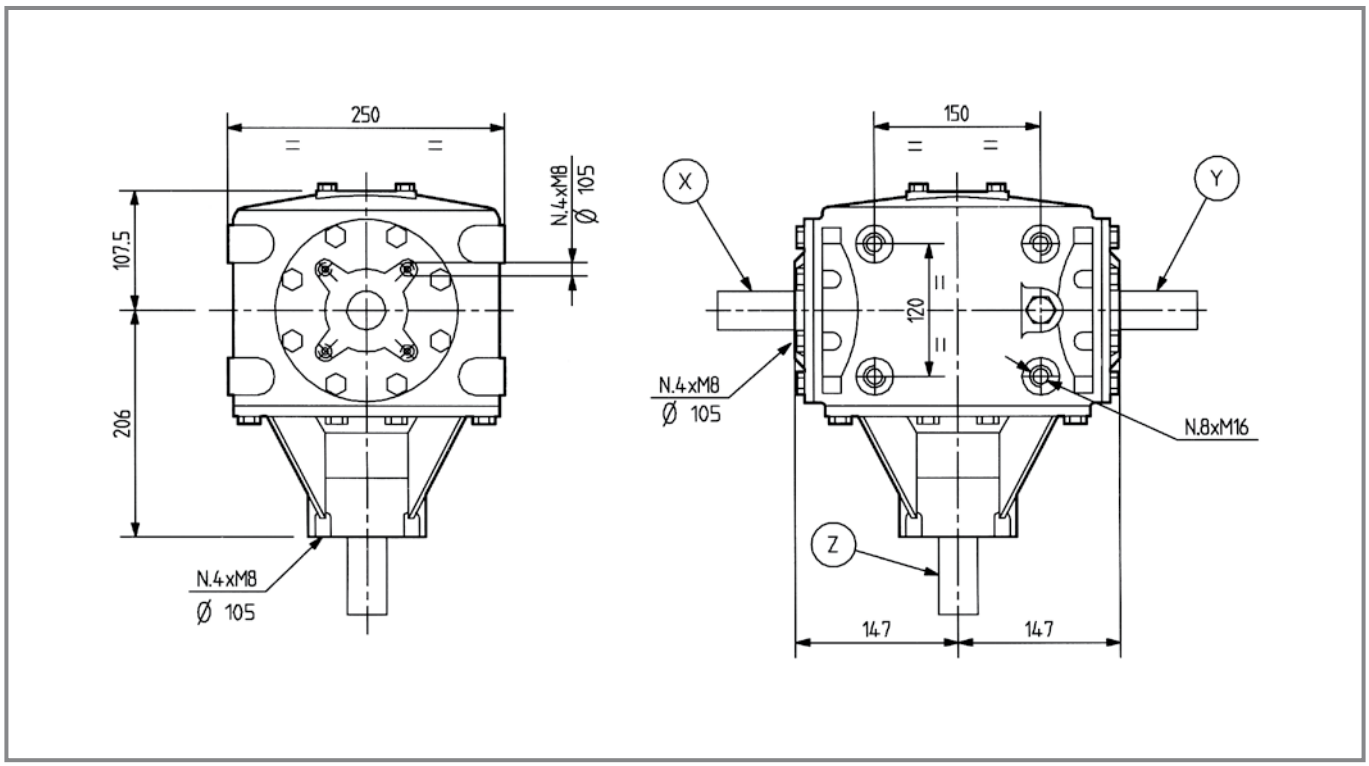


T-269B

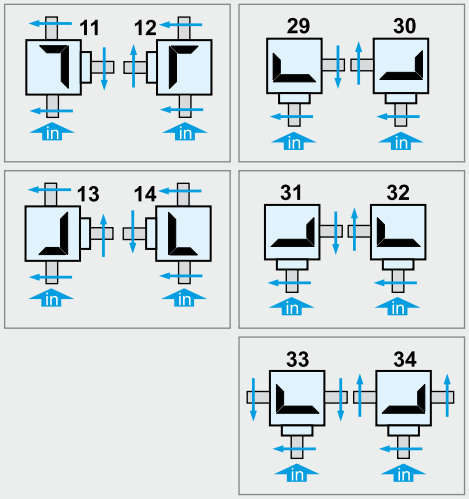
0.00

kg	[kg]	40

OIL	[l]	3.3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**73.6**	*100*	1263	*11700*	std	Z	-
M	**1.42**	540	**77.3**	*105*	932	*8630*	std	Z	29-30 31-32 33-34
	1.63		**77.3**	*105*	812	*7158*			
	1.93		**72.1**	*98.0*	640	*5026*			
	2.42		**62.6**	*85.0*	442	4099			
	3.00		**62.6**	*85.0*	357	3307	sts		31-32
R	**1.42**	540	**66.2**	*90.0*	1611	*14916*	std	X-Y	11-12 13-14
	1.63		**62.6**	*85.0*	1747	*16171*			
	1.93		**60.4**	*82.0*	1995	*18471*			
	2.42		**47.8**	*65.0*	1984	*18368*			
	3.00		**39.0**	*53.0*	2005	*18567*			



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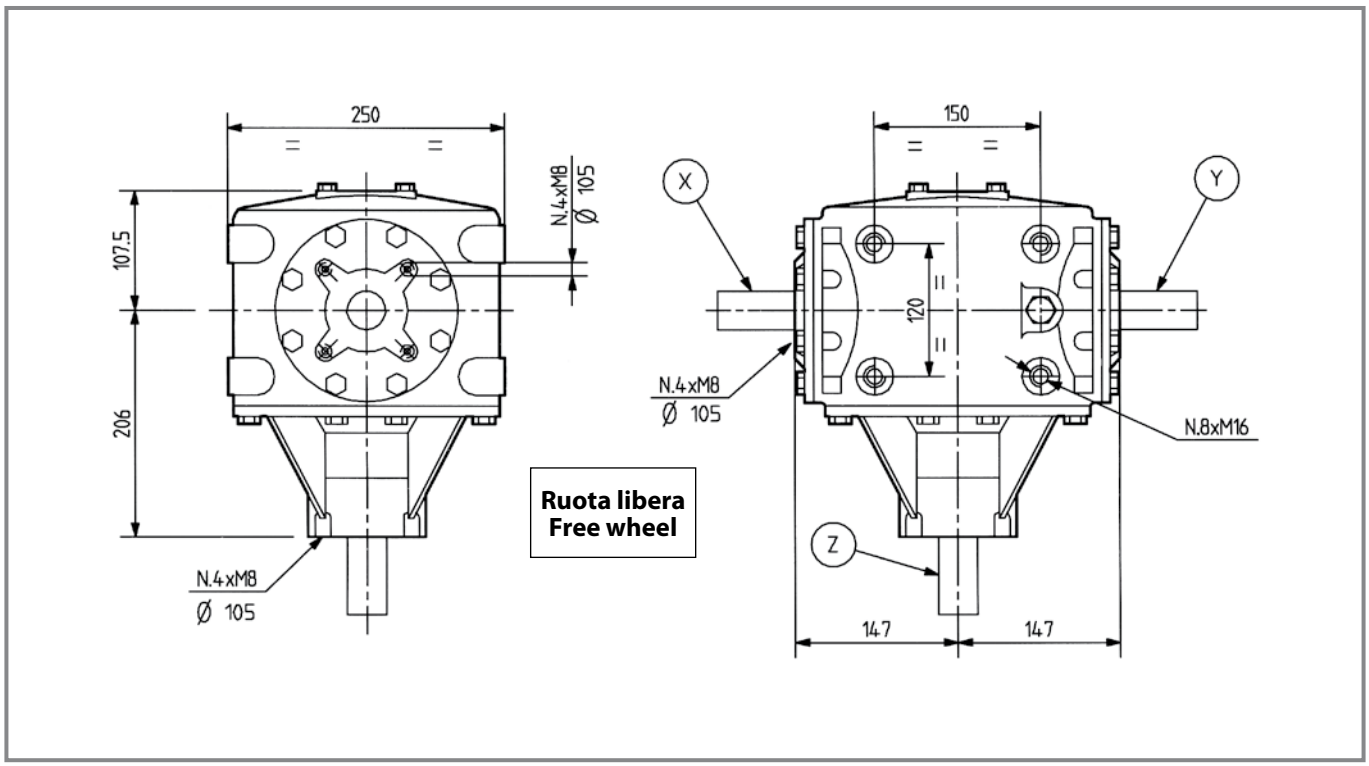
T-269B

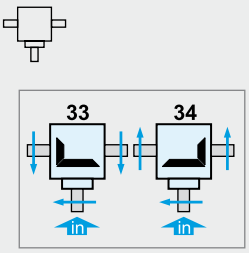
1.01

kg	[kg]	40

OIL	[l]	3.3



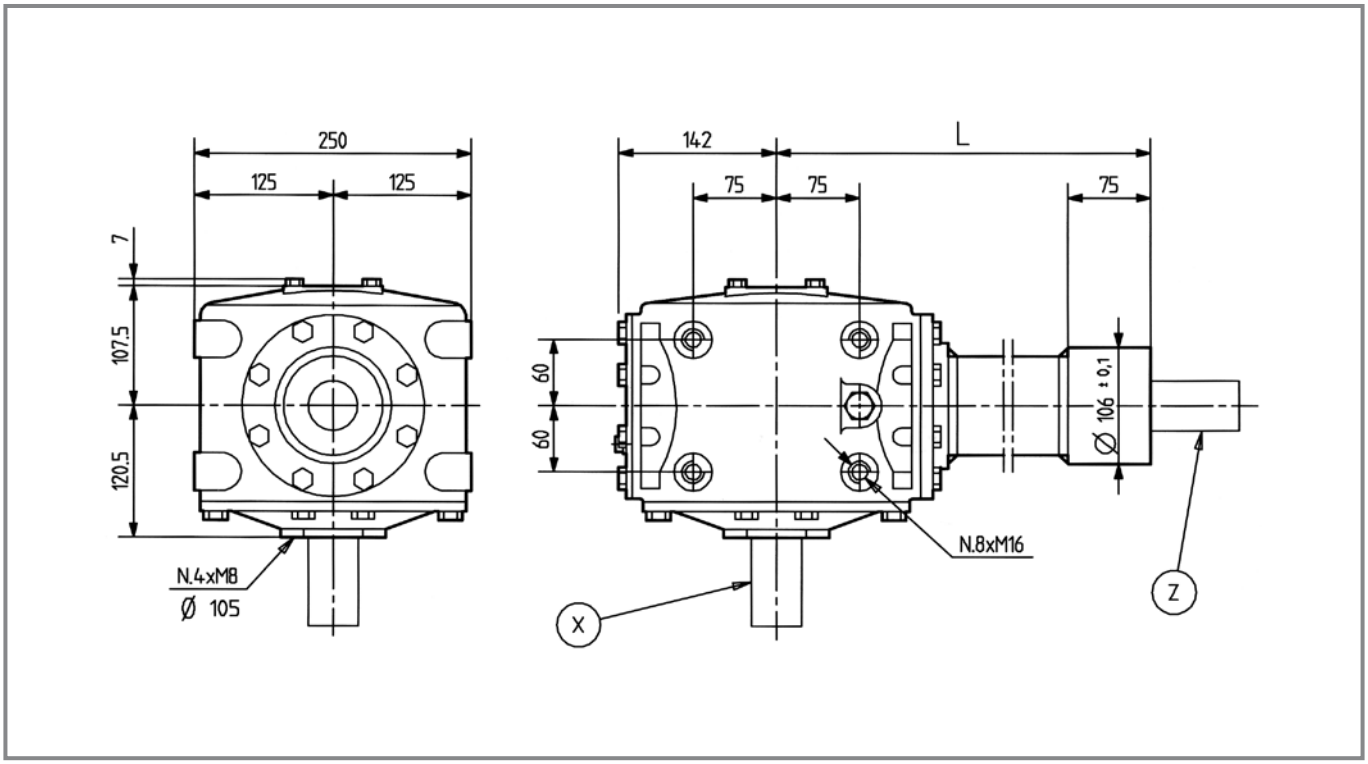
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	73.6	*100*	1261	*11671*	std	Z	33-34
M	**1.63**	540	77.3	*105*	812	*7158*	std	Z	33-34
	3.00		72.1	*98.0*	640	5026			



TL-269E

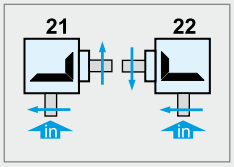
1.01

kg	[kg]		OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.42**	540	**81.0**	*110*	976	*9041*	std	X
	1.93		**81.0**	*110*	718	*6652*		
	2.42		**66.2**	*90.0*	469	*4341*		

21-22



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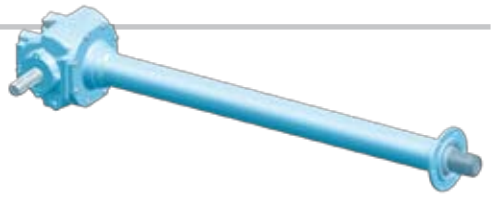
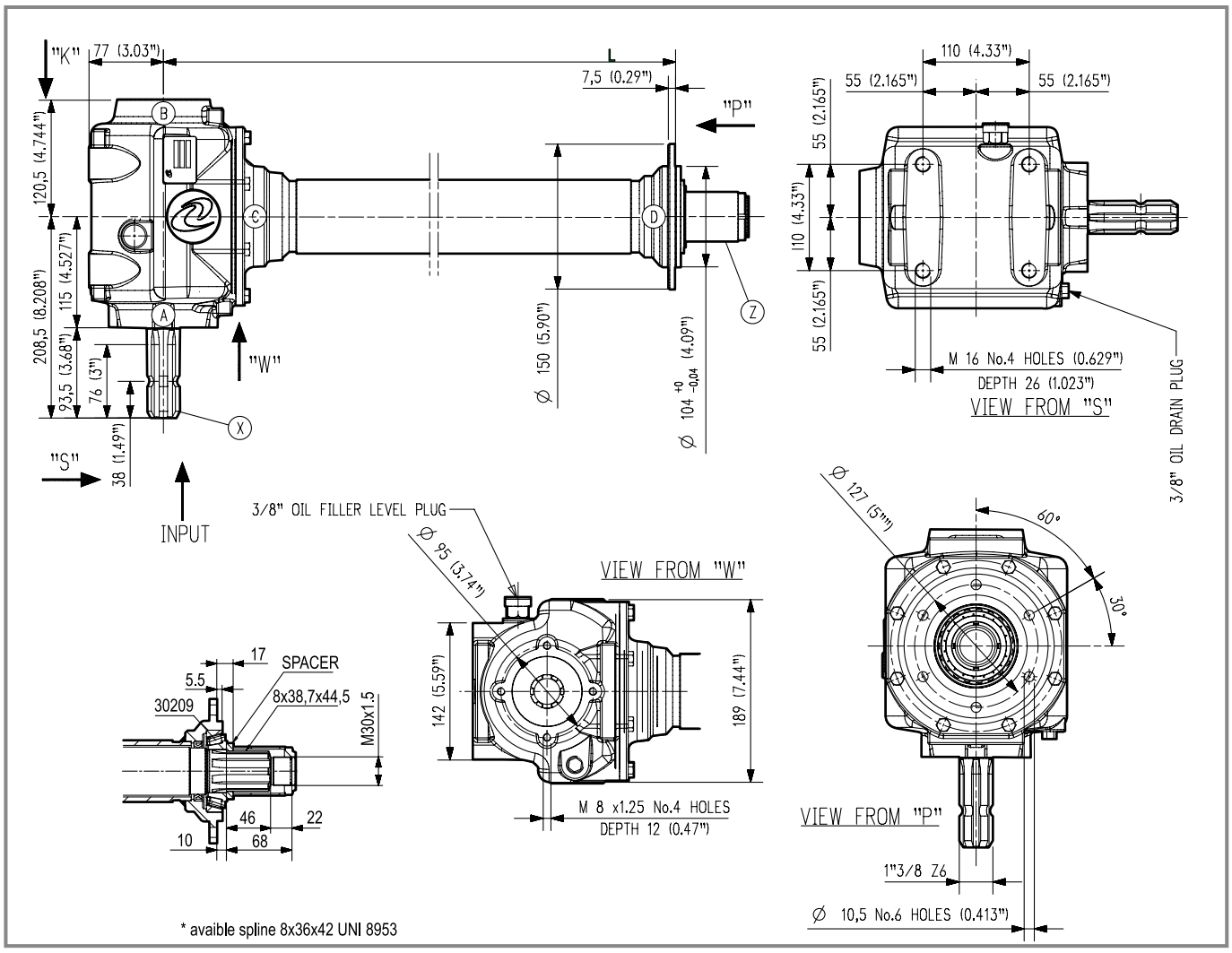
TLZ-270J

2.01



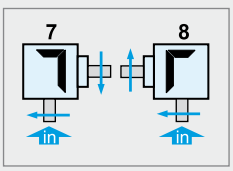
kg	[kg]	46

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
R	1.71	540	47.8	65.0	155.5	-		X	925	

7-8



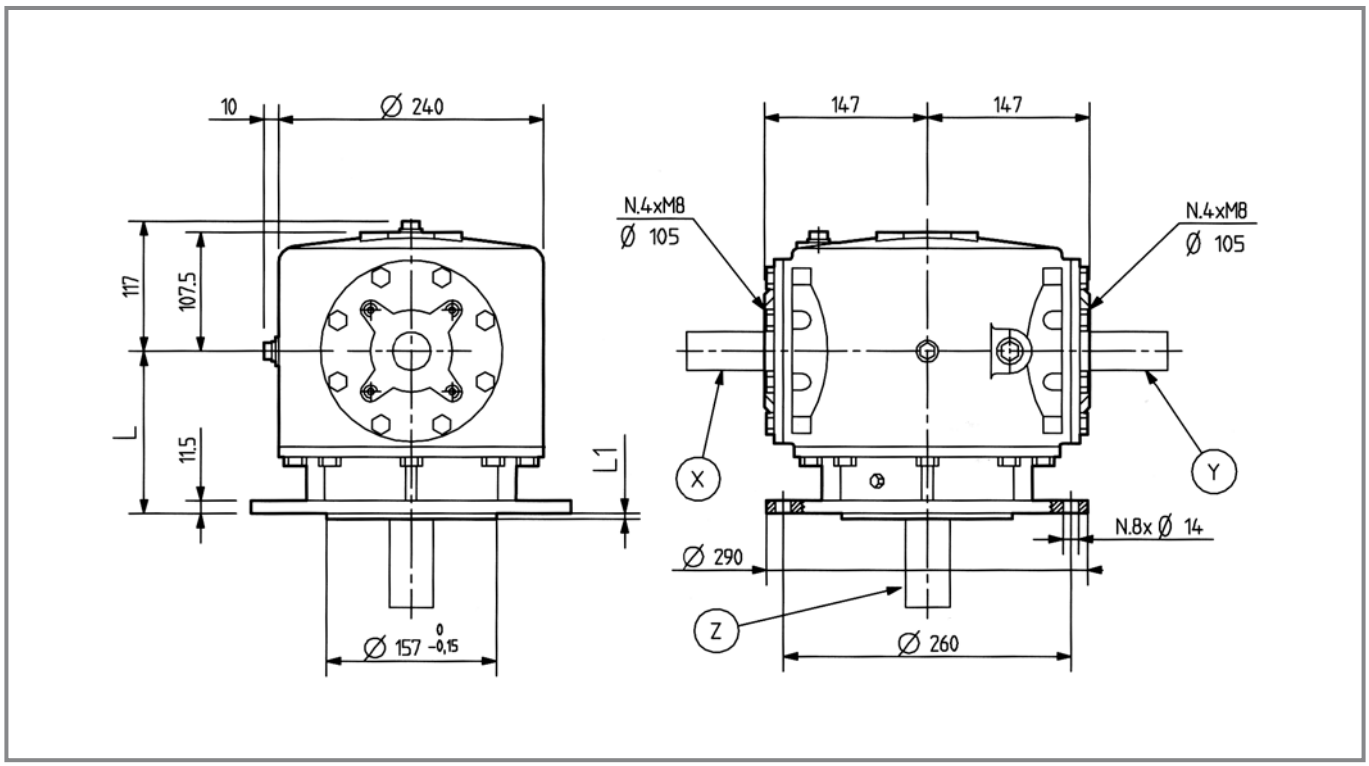
TV-274A

2.02

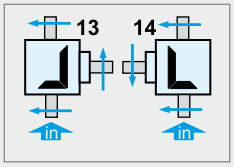
5.03
Vers. TV-274E

kg	[kg]	51

OIL	[l]	1.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**1.93**	540	**58.9**	*80.0*			std	X	13-14



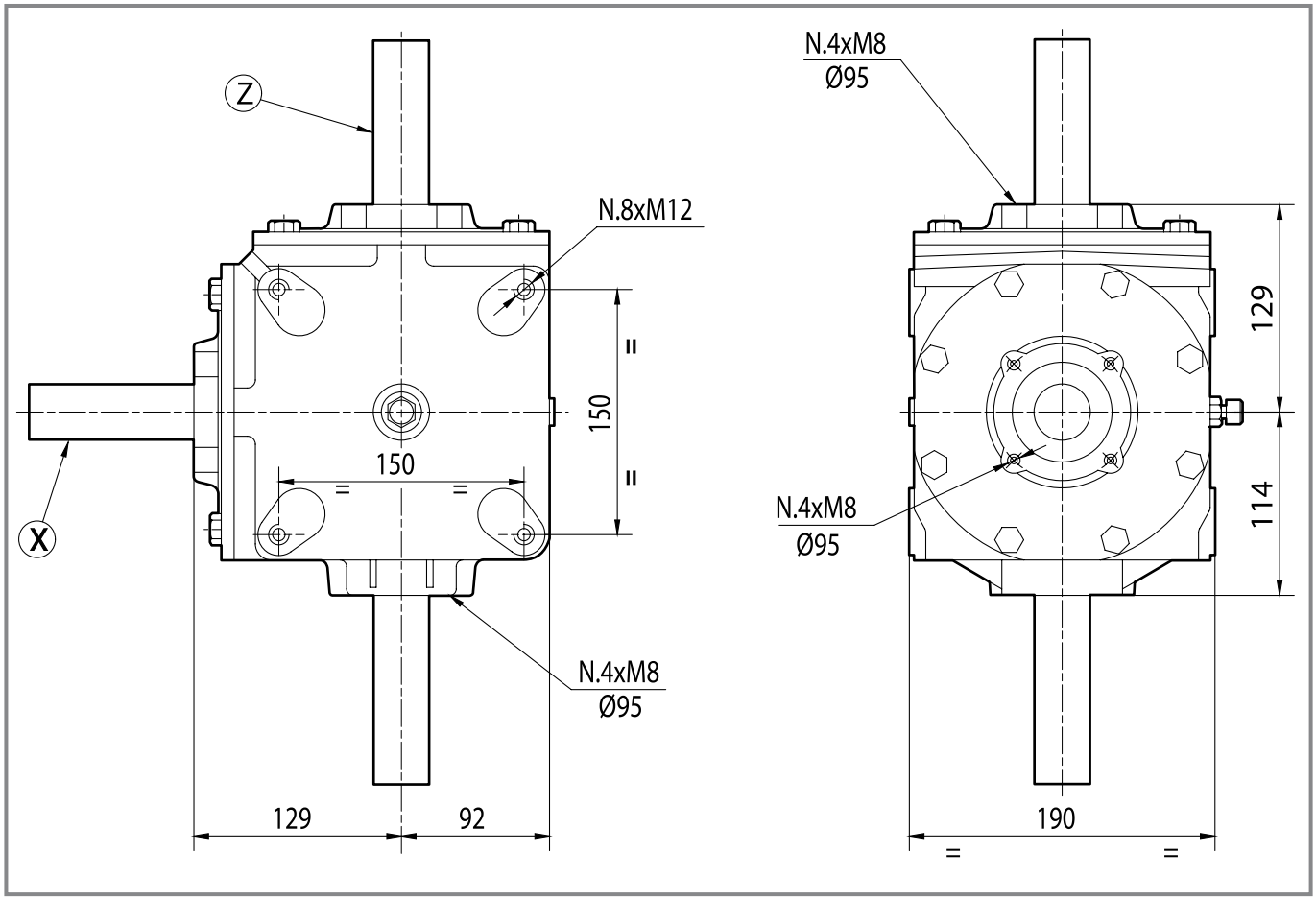
comer industries
gearboxes

T-276 A

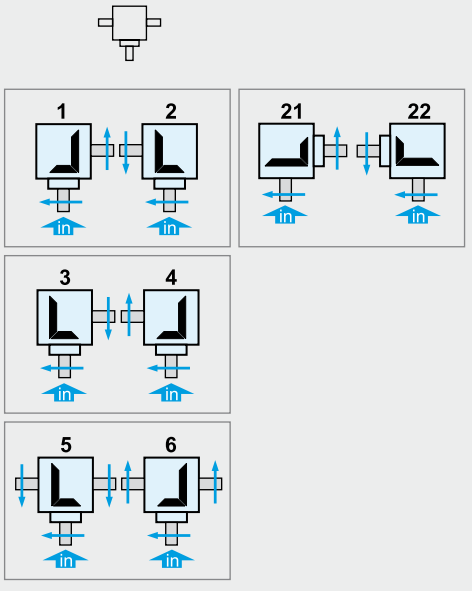
0.00 4.01

kg	[kg]	26

OIL	[l]	2.3



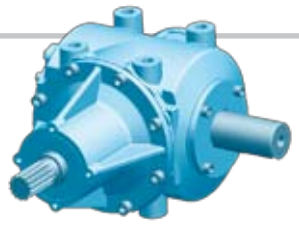
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**73.5**	*100*	132.6	-	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	**73.5**	*100*	98.2	-	std	Z	21-22
	1.5		**66.0**	*90.0*	83.0				
R	**1.35**	540	**66.2**	*90.0*	153.2	-	std	Z	1-2
	1.5		**58.9**		151.3				



T-278A

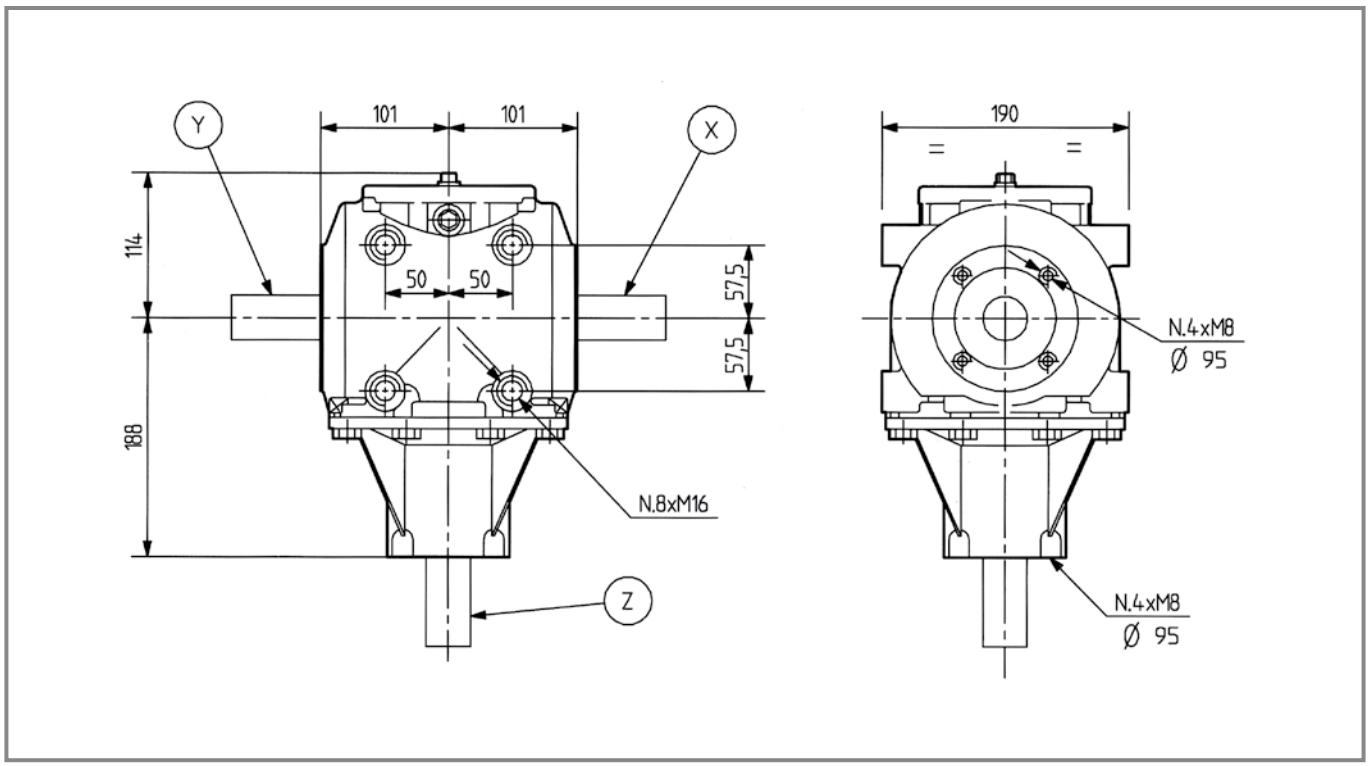
0.00

5.03
TV-278B

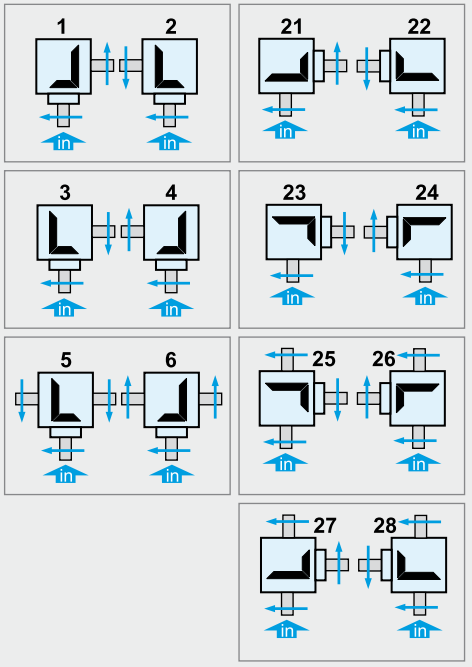


kg	[kg]	23.5

OIL	[l]	1.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**40.5**	*55.0*	693	*6419*	std	Z	1-2 / 3-4 / 5-6
M	**1.60**	540	**40.5**	*55.0*	433	*4012*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	1.92		**40.5**	*55.0*	361	*3343*		X-Y	
	2.33		**38.3**	*52.0*	281	*2605*		X-Y	
	2.91		**33.1**	*45.0*	195	*1805*		X-Y	
R	**1.60**	540	**36.8**	*50.0*	1008	*9337*	std	Z	1-2 / 3-4 / 5-6
	1.81		-	-	-	-	spec		-
	1.92		**33.1**	*45.0*	1089	*10084*	std		1-2 / 3-4 / 5-6
	2.33		**25.0**	*34.0*	999	*9246*			
	2.50		-	-	-	-	spec		-
	2.91		**21.3**	*29.0*	1064	*9849*	std		1-2 / 3-4 / 5-6



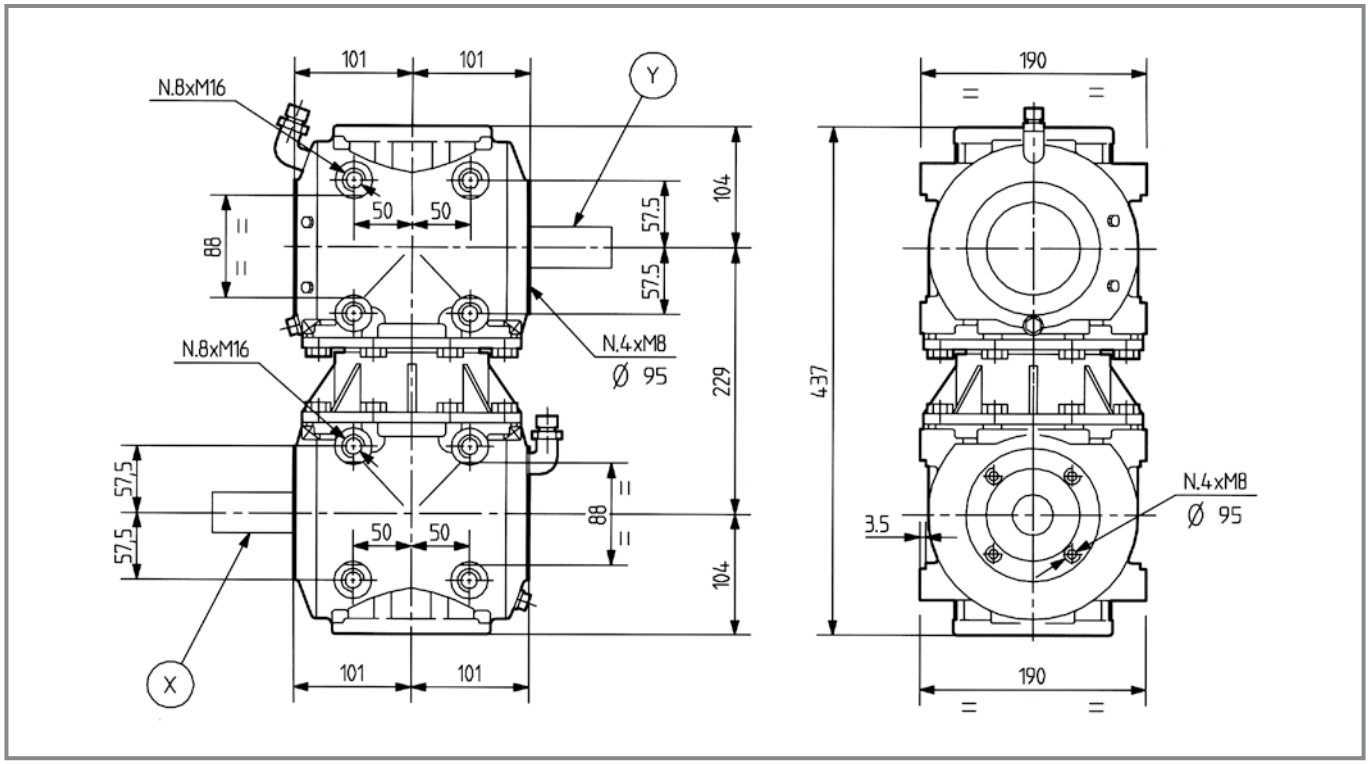
comer industries
gearboxes

T-278D

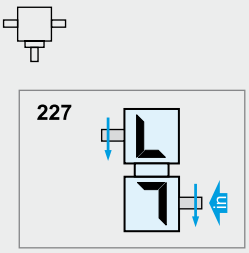
0.00

kg	[kg]	55

OIL	[l]	1.2+1



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.00	540	44.2	60.0	-	-	std	X	227
R	1.35	540	44.2	60.0	-	-	std	X	227
	1.82				-	-			

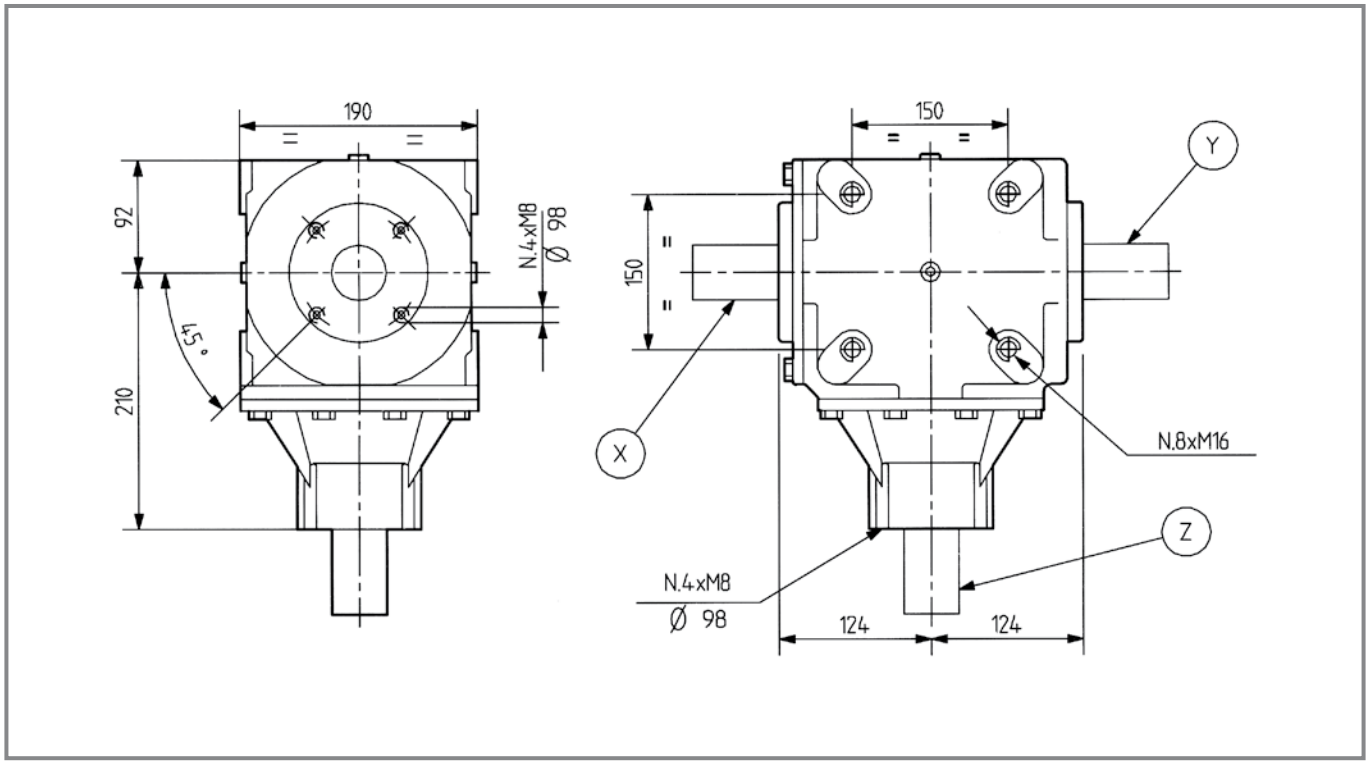


T-279A

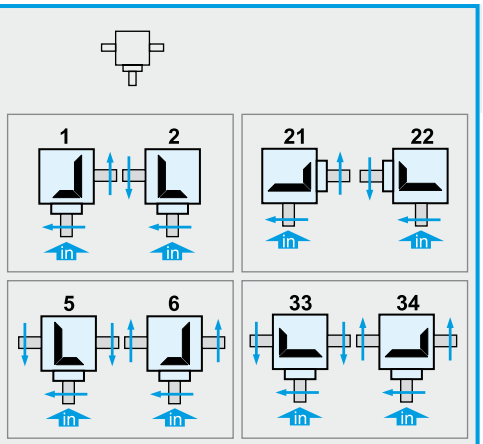
0.00

kg	[kg]	37

OIL	[l]	2.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	73.6	*100*	1261	*11671*	std	Z	1-2 / 5-6
M	**1.35**	540	73.6	*100.0*	934	*8645*	std	Y/Z	21-22 / 33-34
M	**1.50**		66.2	*90.0*	756	*7003*		Y/Z	
M	**1.93**		-	-	-	-	spec	-	-
R	**1.35**	540	66.2	*90.0*	1532	*14181*	std	Z	1-2 / 5-6
R	**1.50**		58.9	*80.0*	1513	*14006*		Z	
R	**1.93**		-	-	-	-	spec	-	-



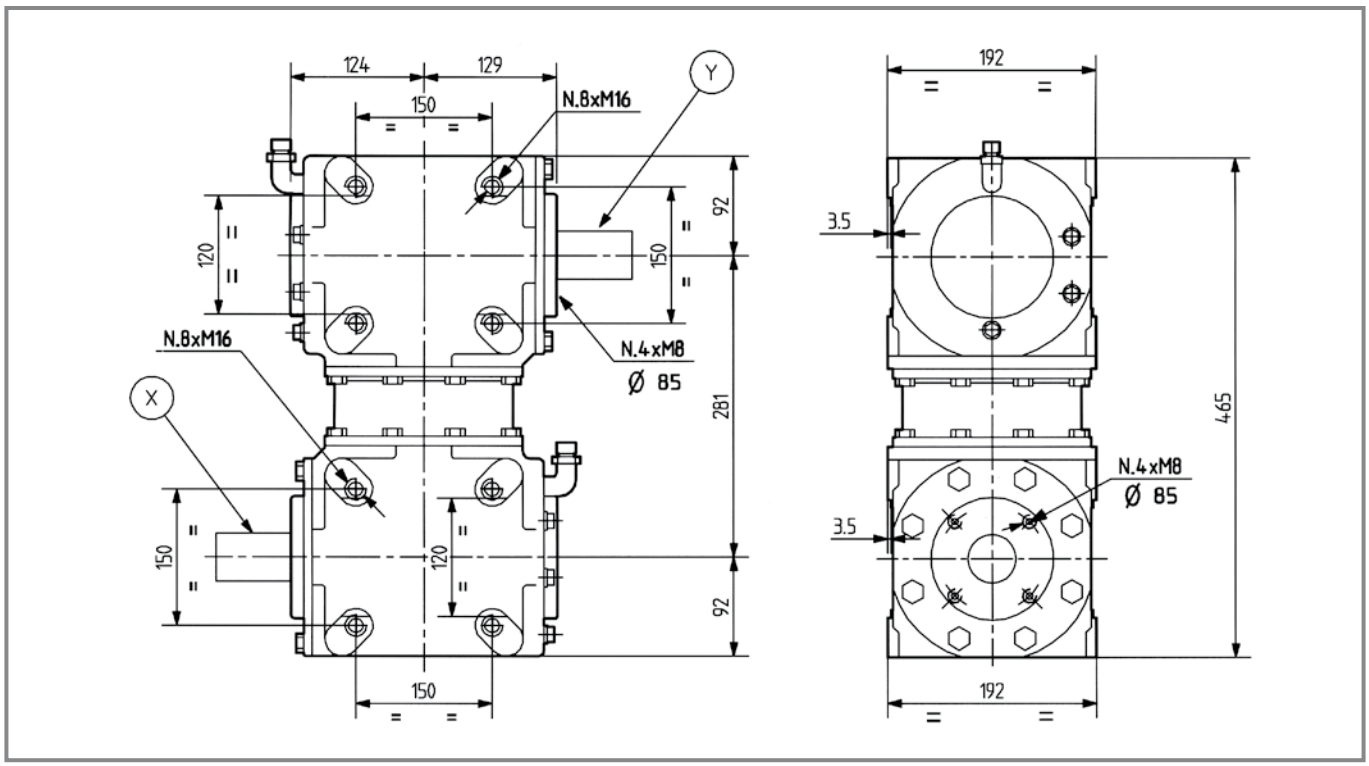
comer industries
gearboxes

T-279D

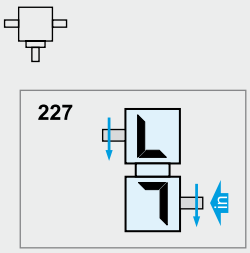
0.00

kg	[kg]	64

OIL	[l]	1.9+1.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**73.6**	*100*	-	-	std	X	227
M	**1.35**	540	**73.6**	*100*	-	-	std	X	227
	1.82				-	-			
R	**1.35**		**66**	*90*			std	X	227

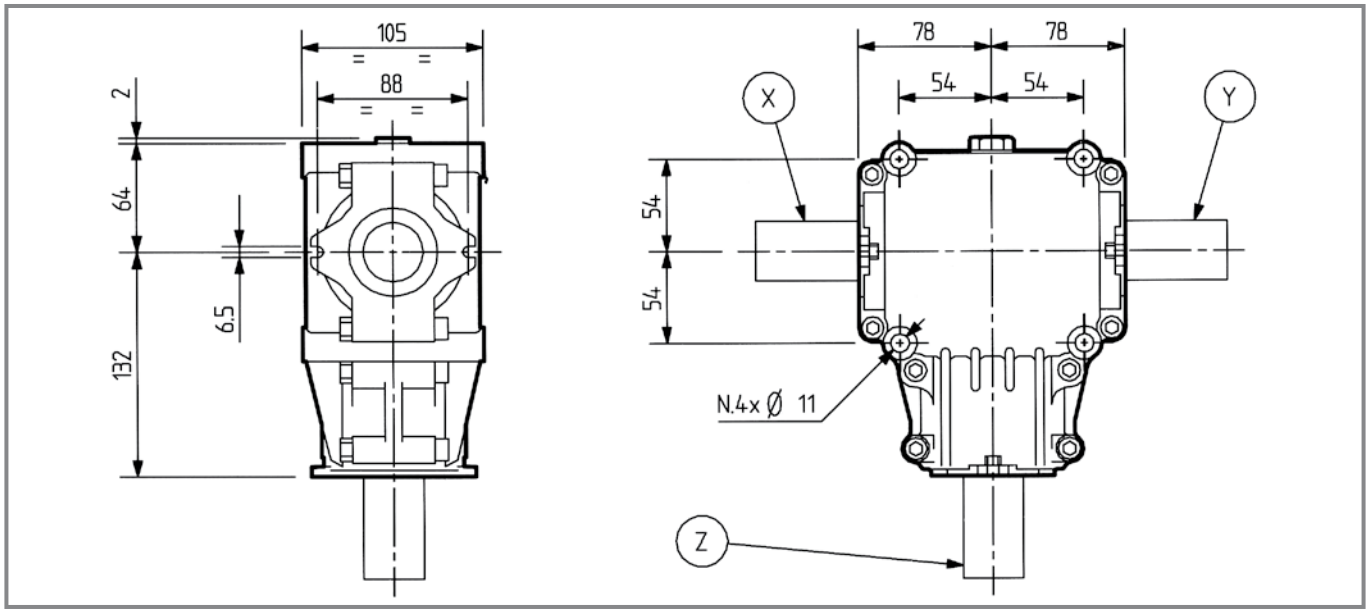


T-281A

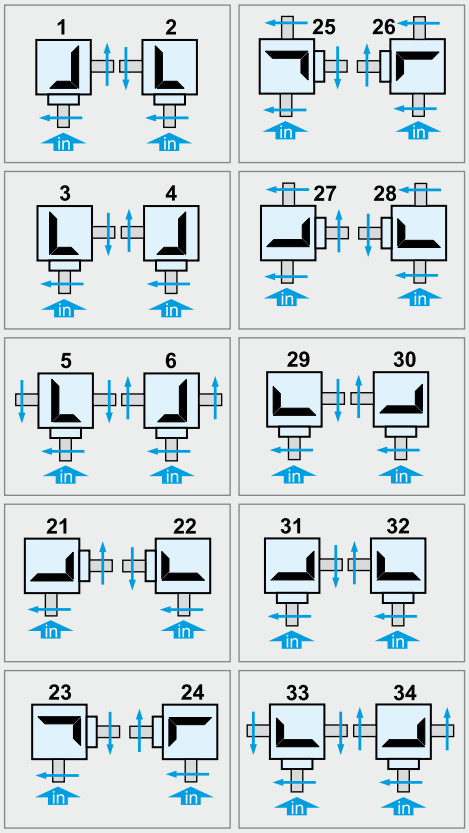
0.00

kg	[kg]	7

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**16.9**	*23.0*	290	*2684*	std	Z	1-2 / 3-4 / 5-6
M	**1.46**	540	**14.7**	*20.0*	172	*1599*	std	Z	21-22 / 23-24 25-26 / 27-28 29-30
M	**1.84**		**12.5**	*17.0*	116	*1078*	std	X/Y/Z	21-22 / 23-24 25-26 / 27-28 31-32 / 33-34
M	**2.16**		**10.3**	*14.0*	81	*756*	std	X/Y/Z	21-22 / 23-24 25-26 / 27-28
M	**2.91**		**8.1**	*11.0*	47	*441*	std	X/Y	
R	**1.46**	540	**11.8**	*16*	294	*3726*	std	Z	1-2 / 3-4 / 5-6
R	**1.84**		**8.8**	*12*	278	*2577*			
R	**2.16**		**6.6**	*9.0*	345	*2269*			
R	**2.91**		**3.7**	*5.0*	183	*1698*			

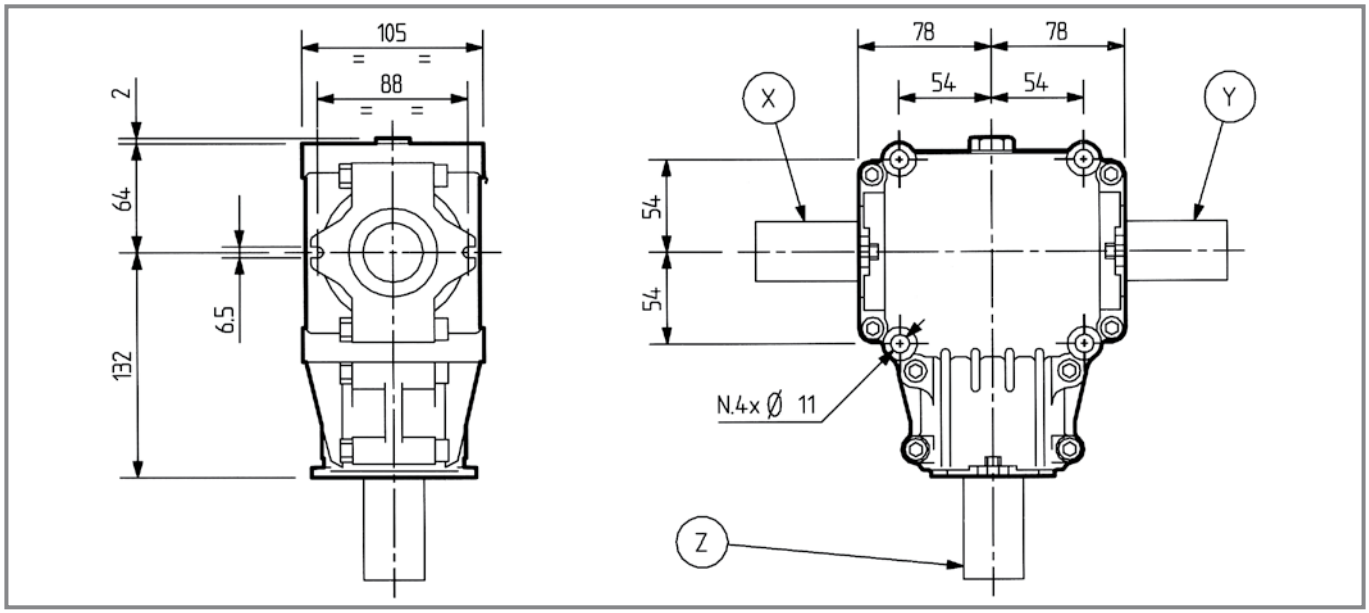


comer industries
gearboxes

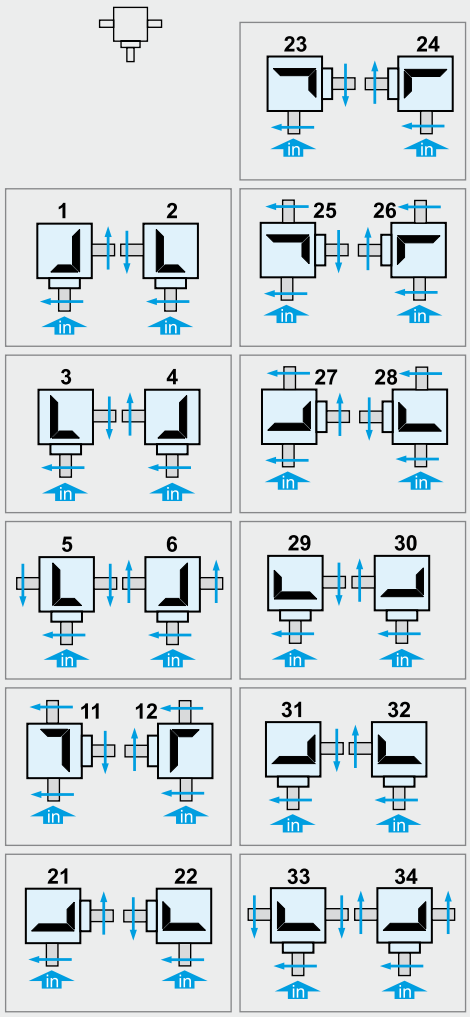
T-281J

0.00

kg	[kg]	7	OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**16.9**	*23.0*	290	*2684*	std	Z	1-2 / 3-4 / 5-6
M	**1.35**	540	**14.7**	*20.0*	-	-	std	Z	11-12
	1.46				172	*1599*			21-22 / 23-24 25-26 / 27-28 29-30
	1.84		**12.5**	*17.0*	116	*1078*	std	X/Y/Z	21-22 / 23-24 25-26 / 27-28 31-32 / 33-34
	2.91		**8.1**	*11.0*	47	*441*	std	X/Y	
R	**1.46**	540	**11.8**	*16*	294	*3726*	std	Z	1-2 / 3-4 / 5-6
	1.84		**8.8**	*12*	278	*2577*			
	2.91		**3.7**	*5.0*	183	*1698*			

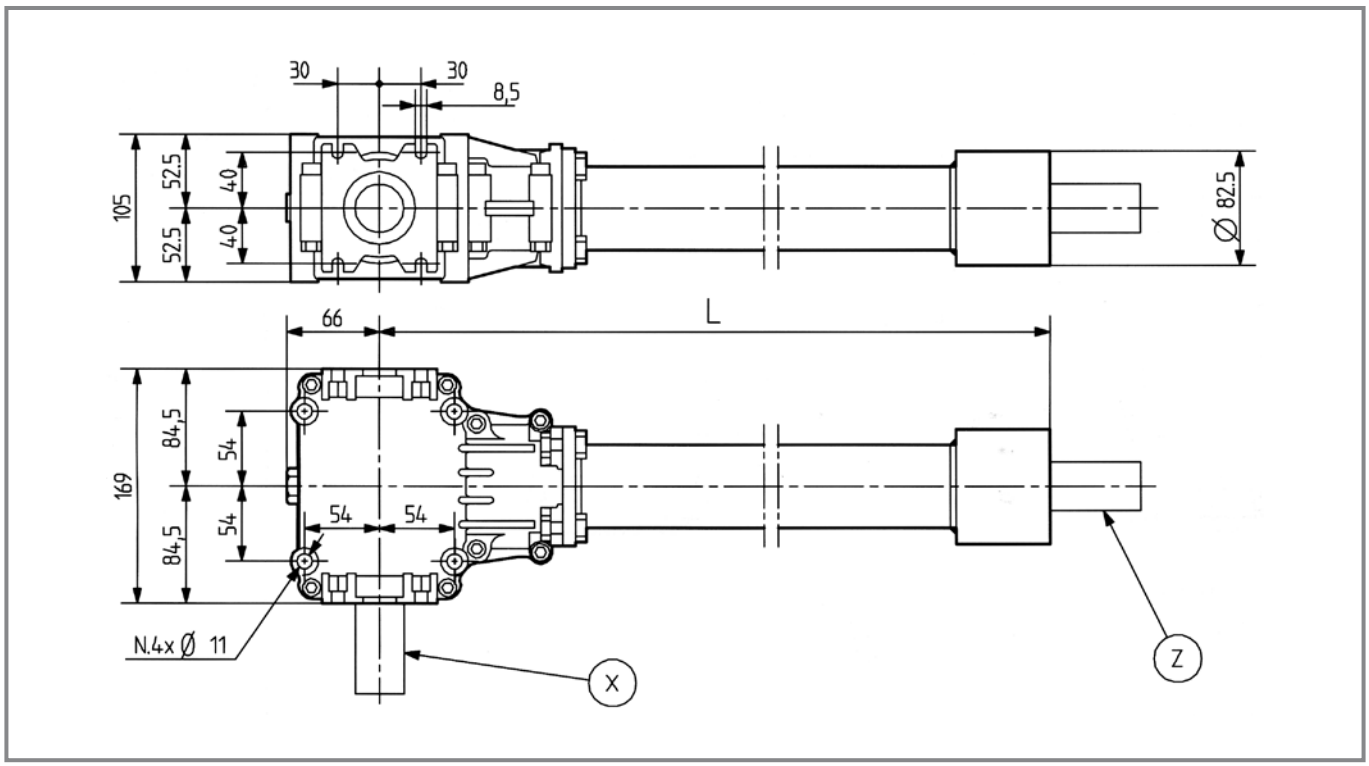


TL-281E

1.01

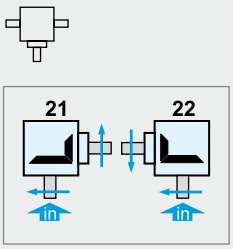
kg	[kg]	-

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
M	**1.85**	540	**14.7**	*20.0*	136	*1262*	std	X	530	
	2.91								530	
	2.91		**9.6**	*13.0*	56	*521*			615	
	2.91								715	

21-22

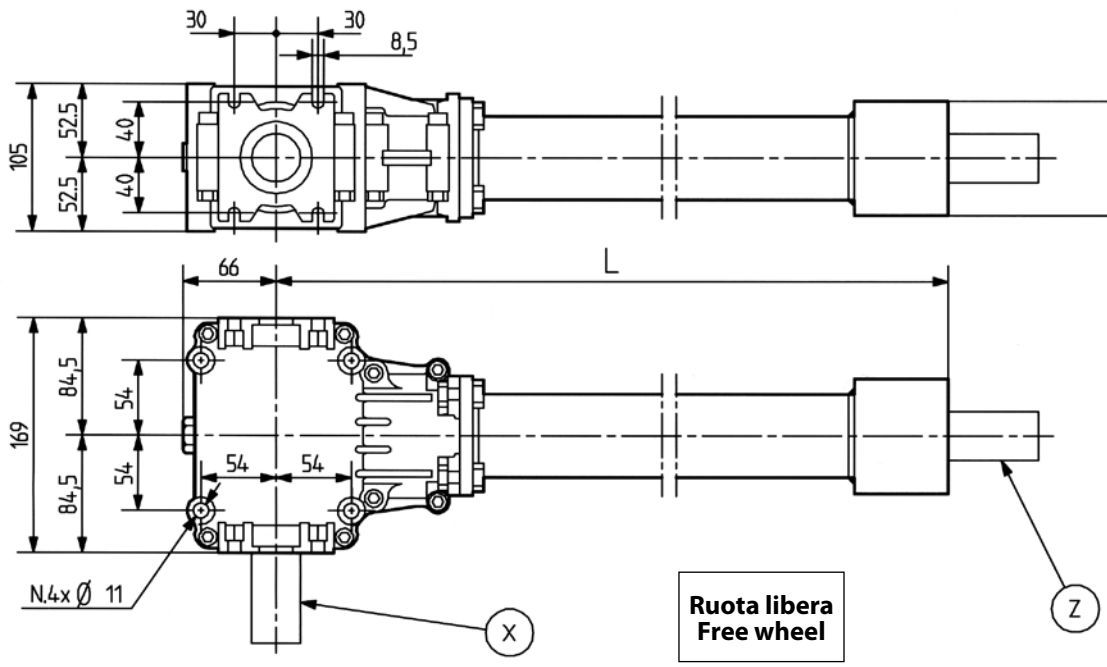


comer industries
gearboxes

TL-281E

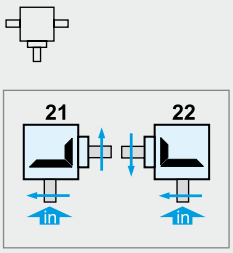
1.01

kg	[kg]	-	OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
M	2.91	540	9.6	13.0	56	521	std	X	530	
	2.91								715	

21-22

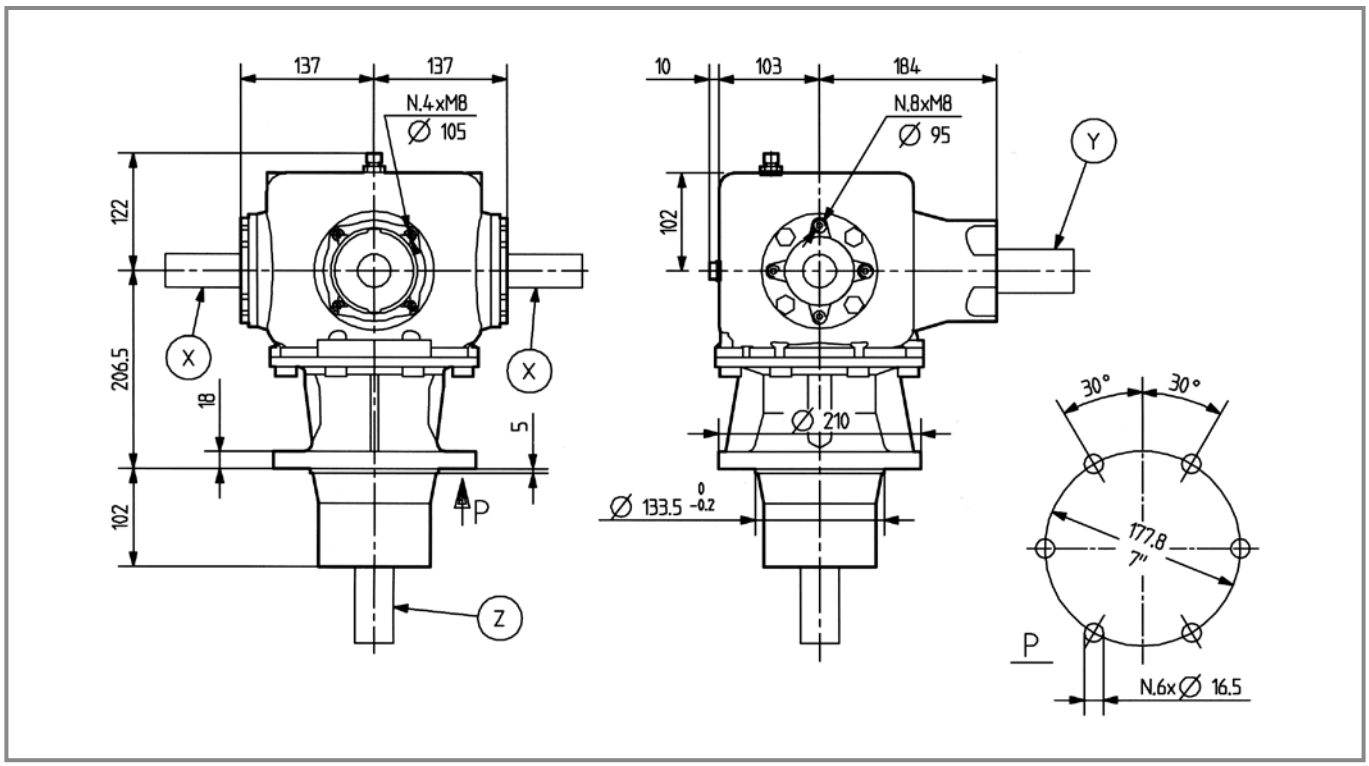


TF-285B

1.03

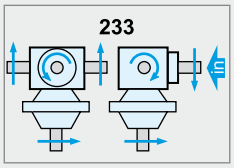
kg	[kg]	42

OIL	[l]	2.6



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	1.20	540	-	-	-	-	spec	Y
	1.86		84.0	115	780	7216	std	

233

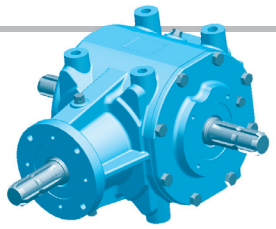


comer industries
gearboxes

T-290A

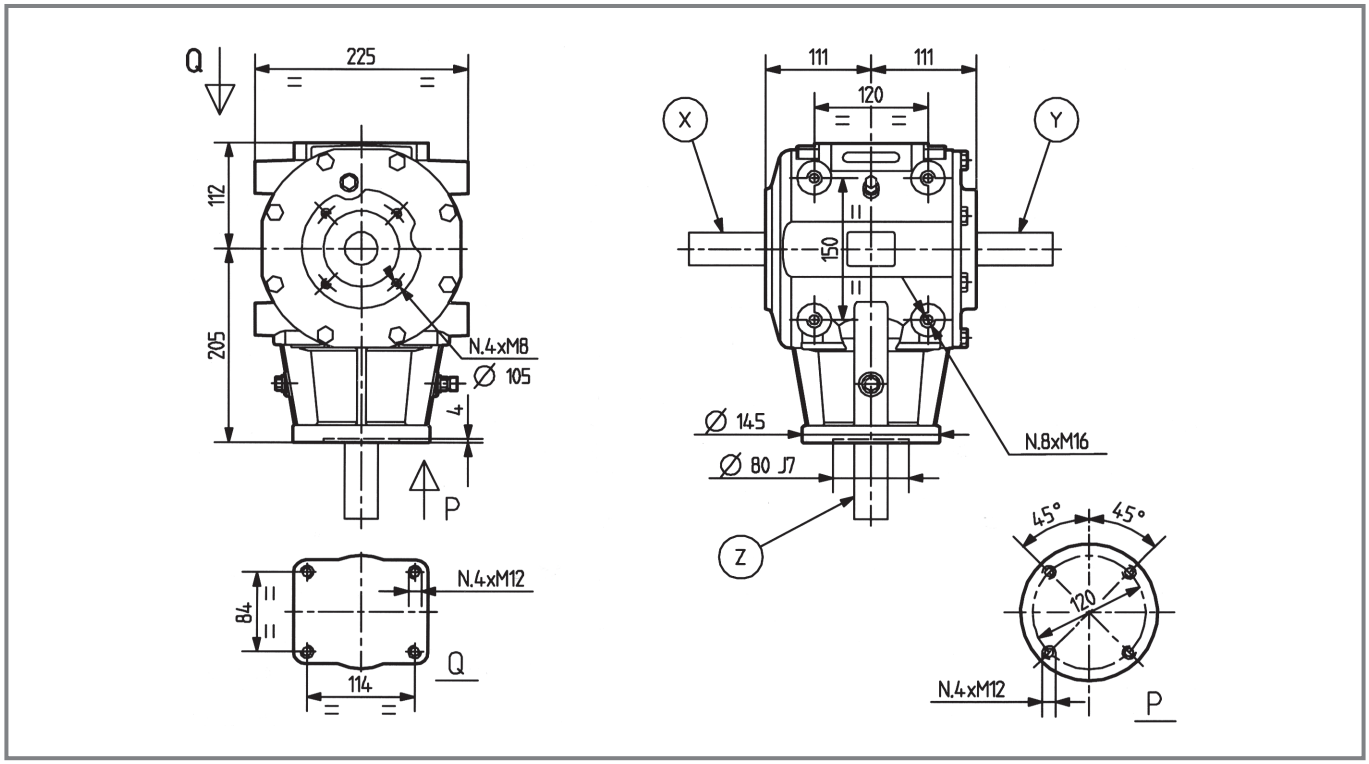
0.00

1.01
T-290D

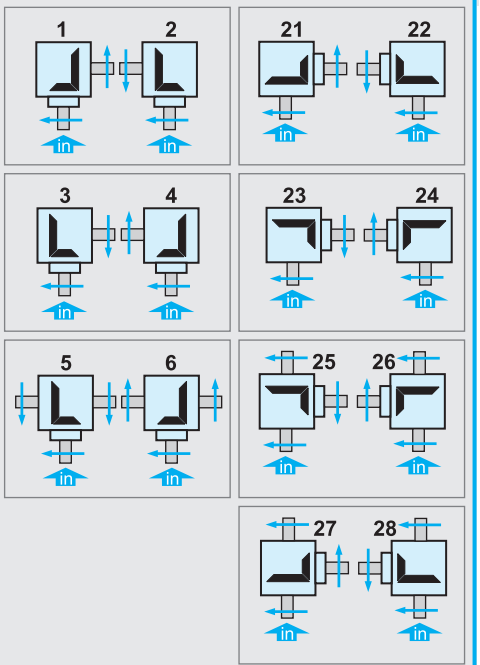


kg	[kg]	31

OIL	[l]	2.3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**66.2**	*90.0*	1135	*10511*	std	Z	1-2 / 3-4 / 5-6
M	**1.47**	540	**69.8**	*95.0*	815	*7548*	std	Z	21-22 / 23-24 25-26
	1.47	1000	**95.6**	*130*	602	*5574*		X	
	1.62		**88.2**	*120*	504	*4669*			
	1.86	540	**62.5**	*85.0*	576	*5334*		X-Y	21-22 / 23-24 25-26 / 27-28
	2.42		**58.8**	*80.0*	417	*3861*			
	3.00		**57.3**	*78.0*	328	*3038*			
R	**1.47**	540	**62.5**	*85.0*	1575	*14586*	std	Z	1-2 / 3-4 / 5-6
	1.86		**55.1**	*75.0*	1759	*16290*			
	2.07		**51.5**	*70.0*	-	-	spec		5-6
	2.42		**41.9**	*57.0*	1739	*16105*	std		1-2 / 3-4 / 5-6
	3.00		**33.0**	*45.0*	1702	*15762*			



NOTA: Disponibile con ruota libera su corona
(i = 1.62 / 2.42 / 3.00)

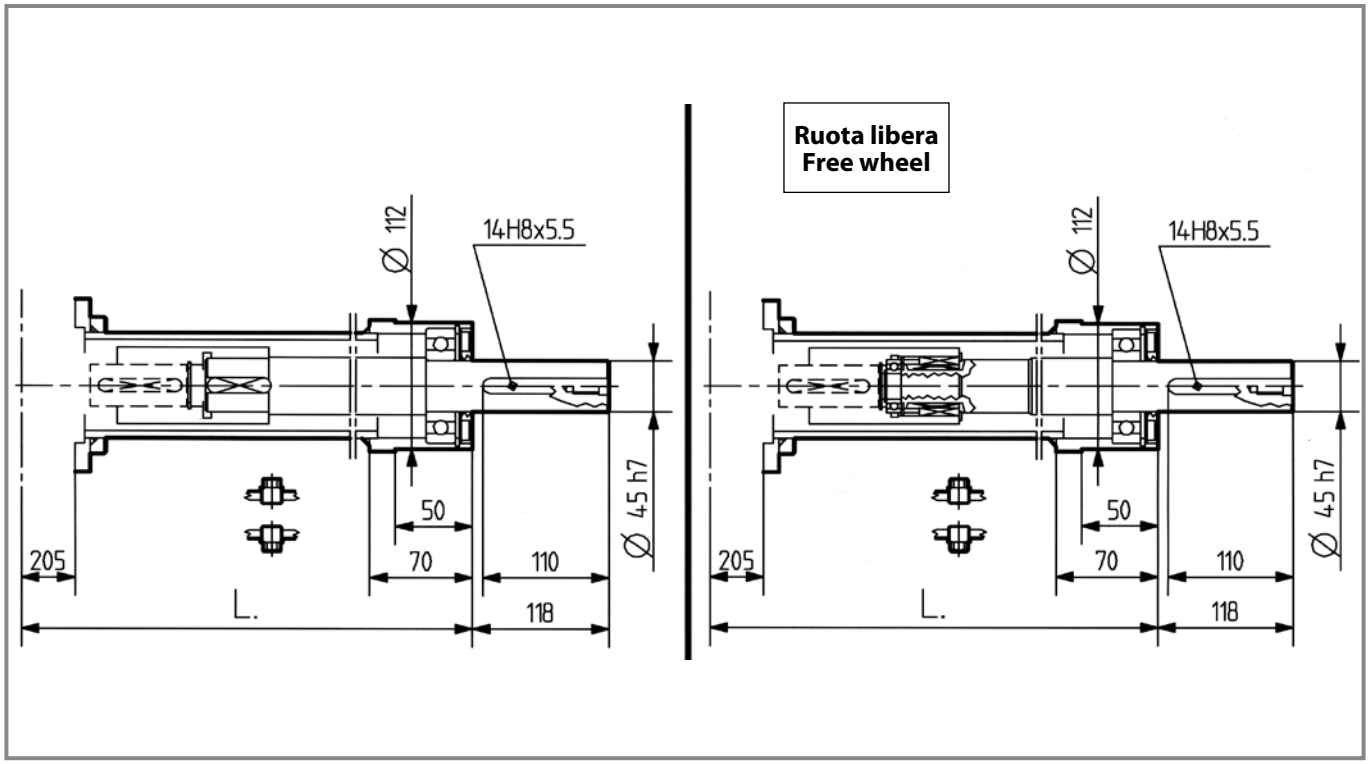
NOTE: Available version with free wheel on crown
(i = 1.62 / 2.42 / 3.00)

TL-290D

1.01

kg	[kg]	-

OIL	[l]	-

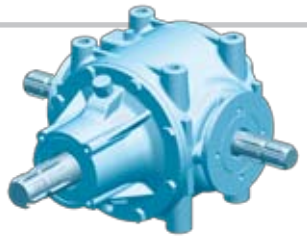


L(mm)	Code
780	290.500
990	290.501
1050	290.502
1115	290.527
1240	290.503
1400	290.505
1560	290.507
1365	290.504
2070	290.529

L(mm)	Code
1115	290.534
1240	290.536
1365	290.533
1400	290.535
1560	290.523

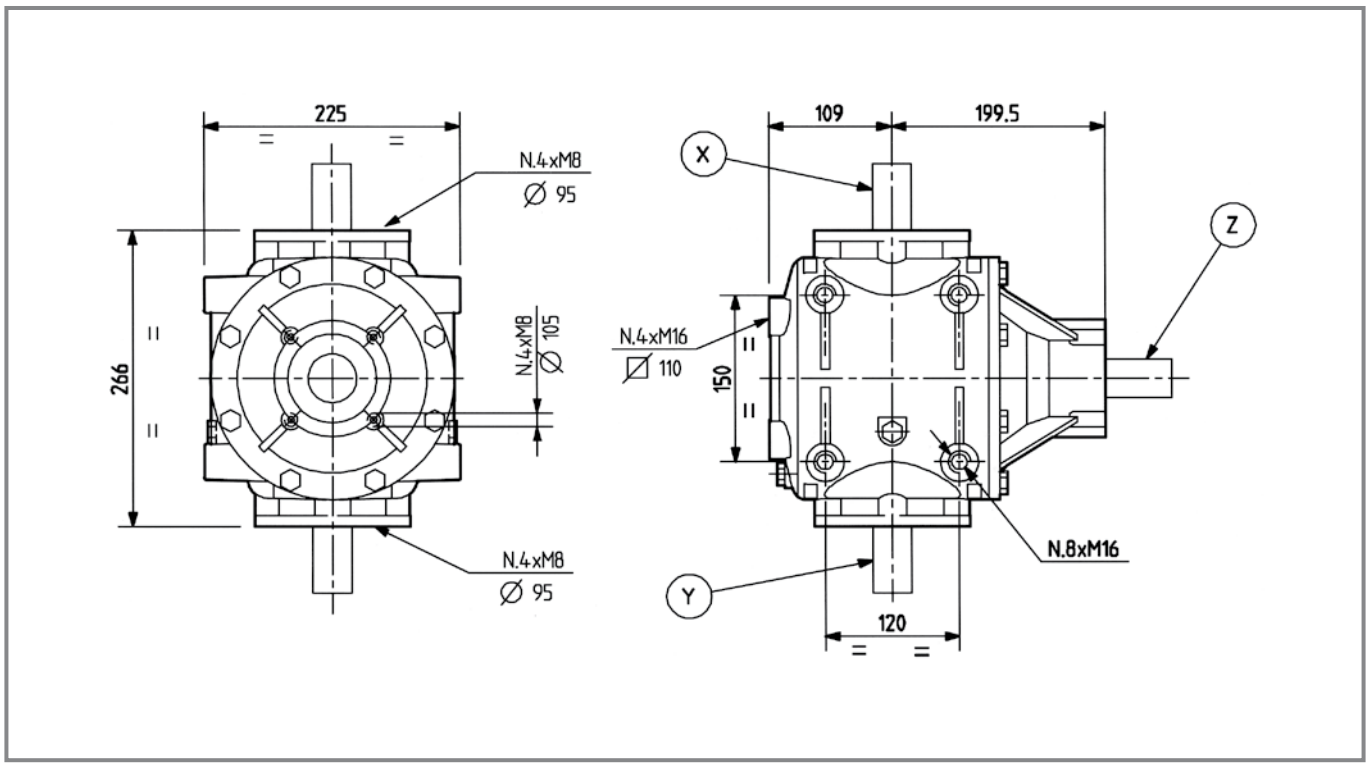
T-292B

0.00

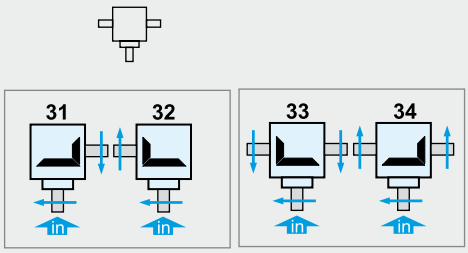


kg	[kg]	33

OIL	[l]	2.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**61.8**	*84.0*	1059	*9804*	std		33-34
M	**1.47**	540	**66.2**	*90.0*	772	*7146*	std	X-Y	33-34
	1.62		-	-	-	-			-
	1.86		**62.5**	*85.0*	576	*5334*			33-34
	2.70	40	-	-	-	-			-
	3.00	540	**57.3**	*78.0*	-	-			31-32
R	**1.47**	540	-	-	-	-	std	Z	-
	1.62		-	-	-	-			-
	1.86		-	-	-	-			-
	2.70		-	-	-	-			-
	3.00		-	-	-	-			-

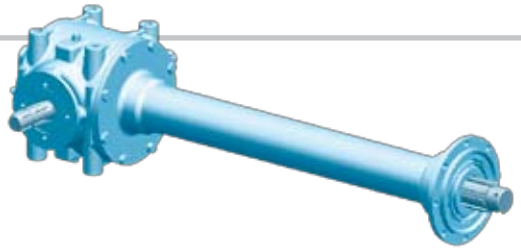


NOTA: Disponibile con ruota libera su corona
(i = 1.00 / 1.62 / 1.86)

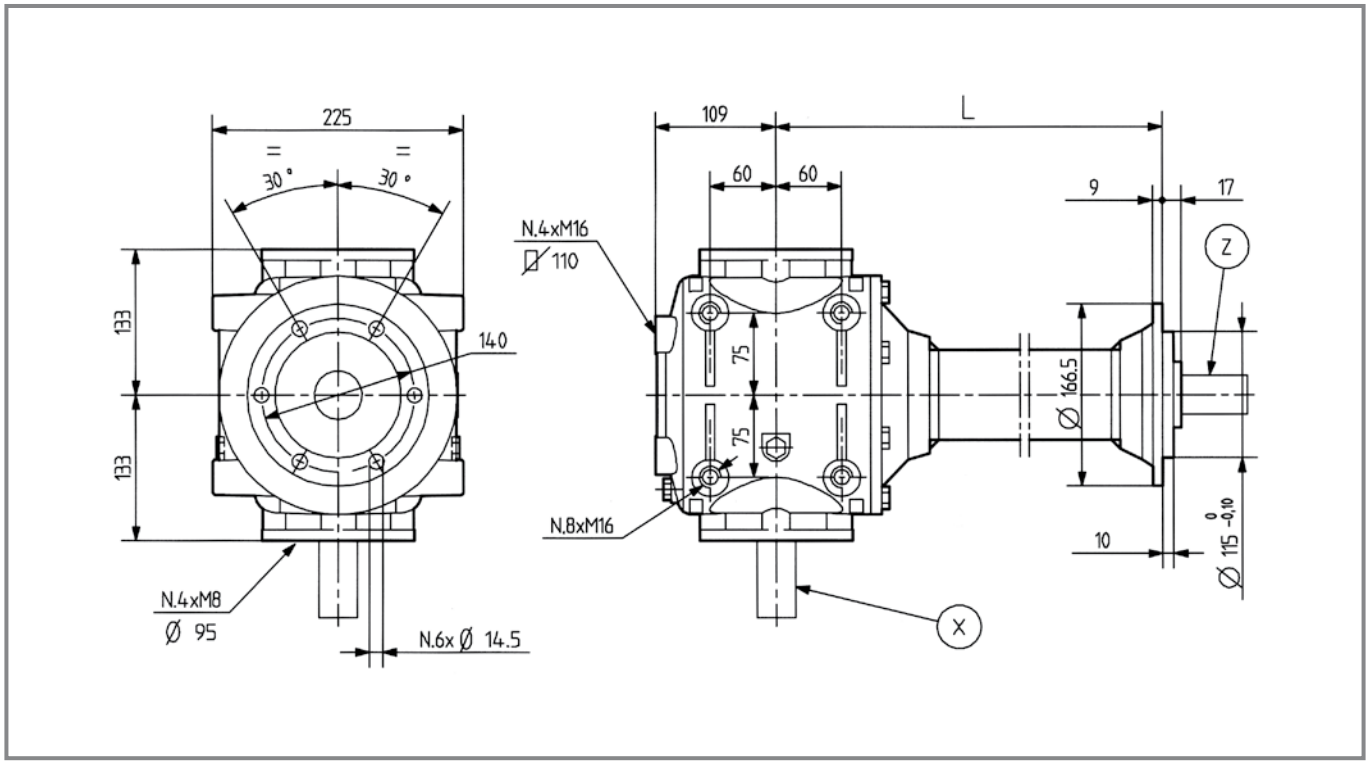
NOTE: Available version with free wheel on crown
(i = 1.00 / 1.62 / 1.86)

TLZ-292A

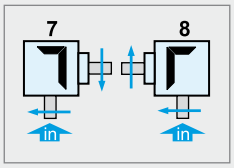
2.01



kg [kg]	-	OIL [l]	-



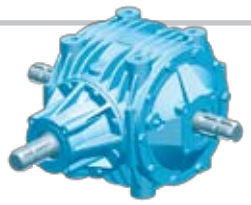
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**61.8**	*84.0*	-	-	std	X	7
M	**1.47**	540	**66.2**	*90.0*	-	-	std	X	7
R	**1.86**	540	**47.8**	*65.0*	1555	*14395*	std	X	7



comer industries
gearboxes

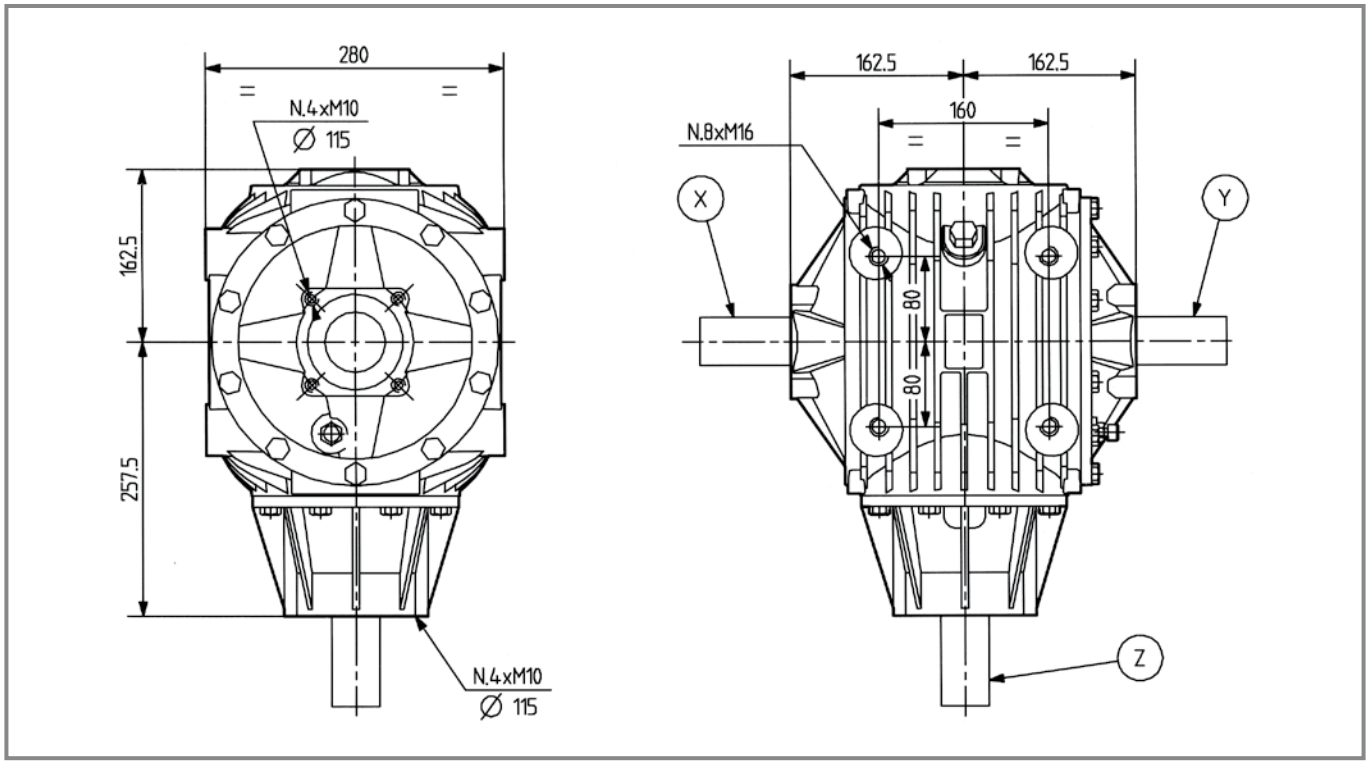
T-301A

0.00



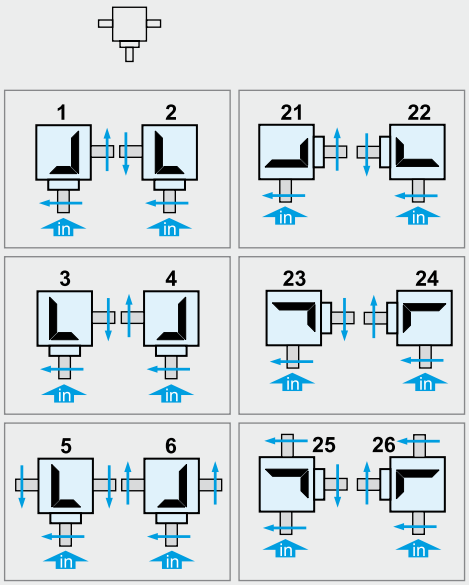
kg	[kg]	61.5

OIL	[l]	4.4



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.35**	540	**103**	*140*	1308	*12110*	std	Y
	1.60		**95.6**	*130*	1025	*9488*		
	1.93		**80.9**	*110*	719	*6659*		
R	**1.35**	540	**95.6**	*130*	2213	*20494*	std	Y
	1.60		**88.2**	*120*	2421	*22421*		
	1.93		**77.2**	*105*	2555	*23665*		

M	21-22 / 23-24 25-26
R	1-2 / 3-4 5-6

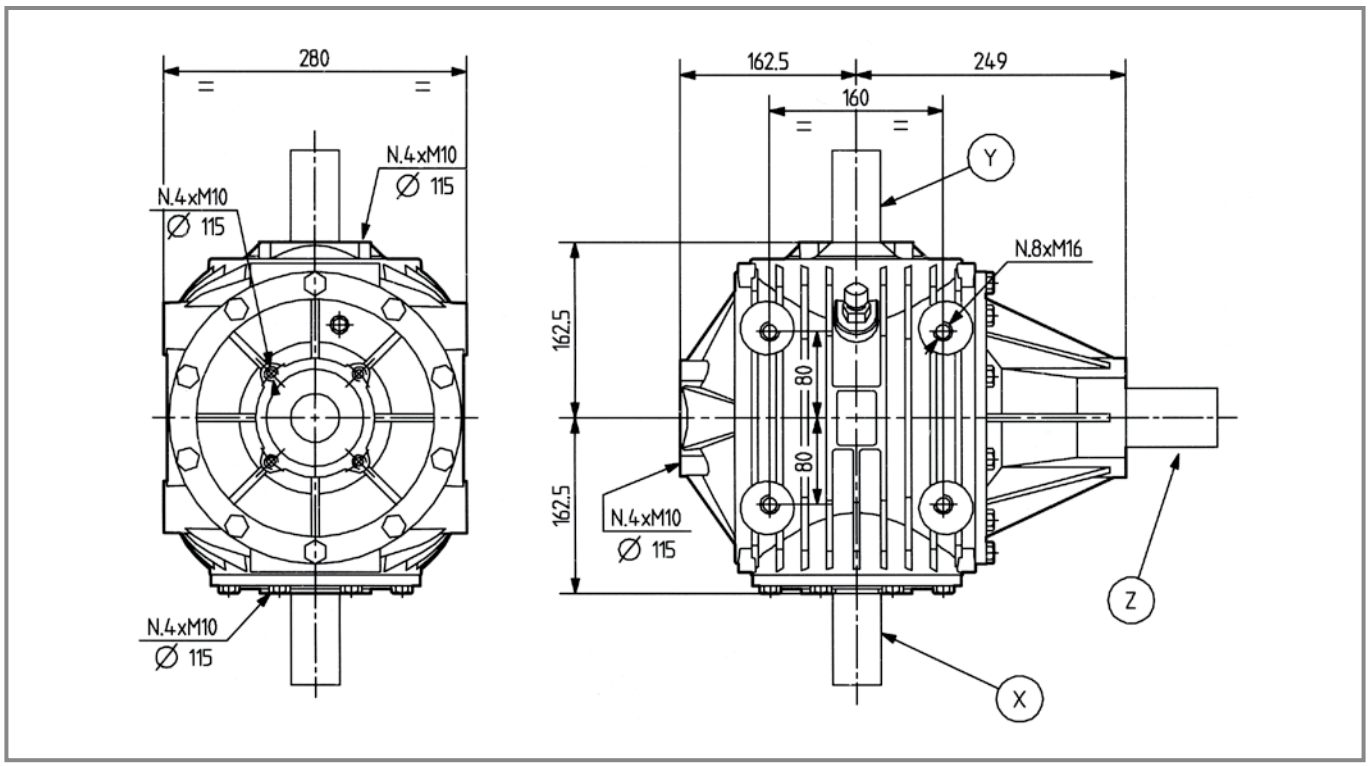


T-301B

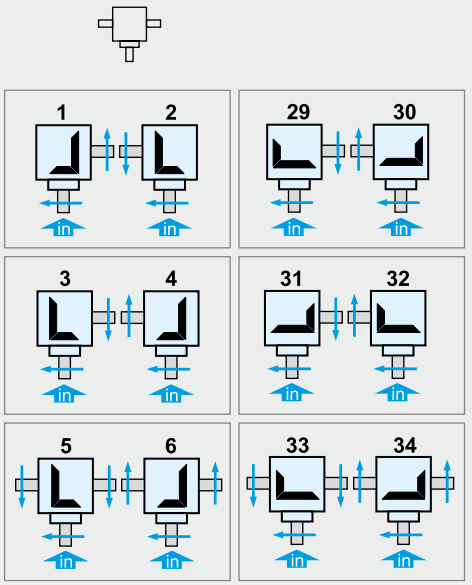
0.00 1.01

kg	[kg]	61.5

OIL	[l]	4.4



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**110**	*150*	1891	*17512*	std	Z	29-30 / 31-32 33-34
M	**1.35***	1000	**142**	*193*	973	*9010*	std	Z	33-34
M	**1.60***	1000	**110**	*150*	638	*5908*	std	Z	33-34
M	**1.93***	1000	**107**	*145*	511	*4769*	std	Z	33-34
M	**1.35**	540	**103**	*140*	1308	*12110*	std	Y	29-30 / 31-32 33-34
M	**1.60**	540	**95.6**	*130*	1025	*9488*	std	Y	29-30 / 31-32 33-34
M	**1.93**	540	**80.9**	*110*	719	*6659*	std	Y	29-30 / 31-32 33-34
R	**1.35**	540	**95.6**	*130*	2213	*20494*	std	Z	1-2 / 3-4 / 5-6
R	**1.60**	540	**88.2**	*120*	2421	*22421*	std	Z	1-2 / 3-4 / 5-6
R	**1.93**	540	**77.2**	*105*	2555	*23665*	std	Z	1-2 / 3-4 / 5-6



* Disponibile con ruota libera su corona

** Available version with free wheel on crown*

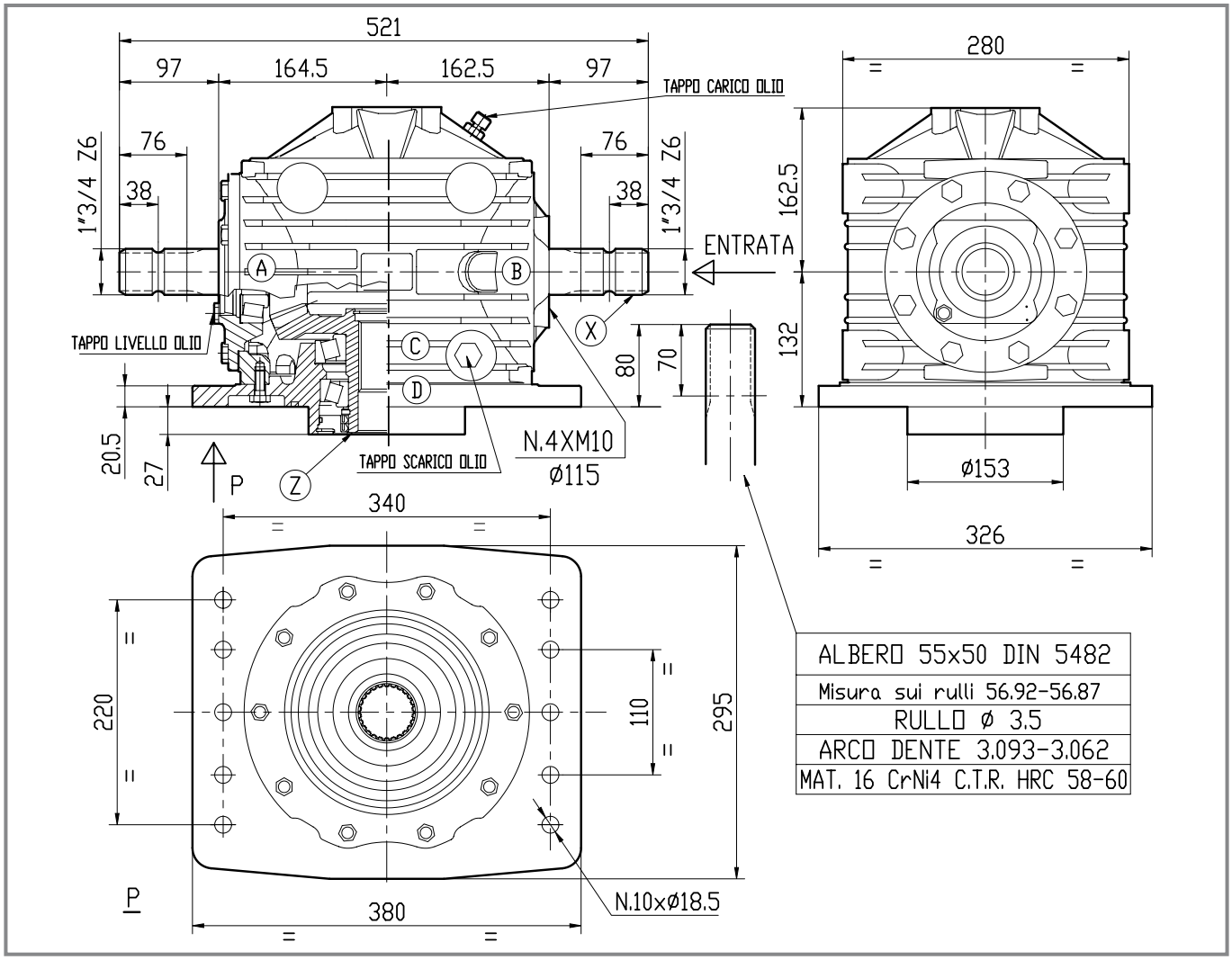
comer industries gearboxes

TV-301H

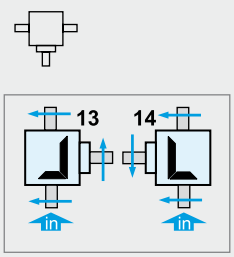
2.02

kg	[kg]	62

OIL	[l]	-



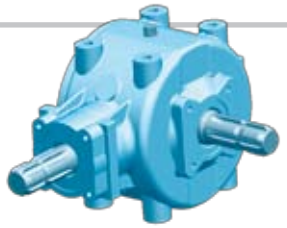
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**2.42**	600	73.5	*100*			std	X	13-14



T-304A

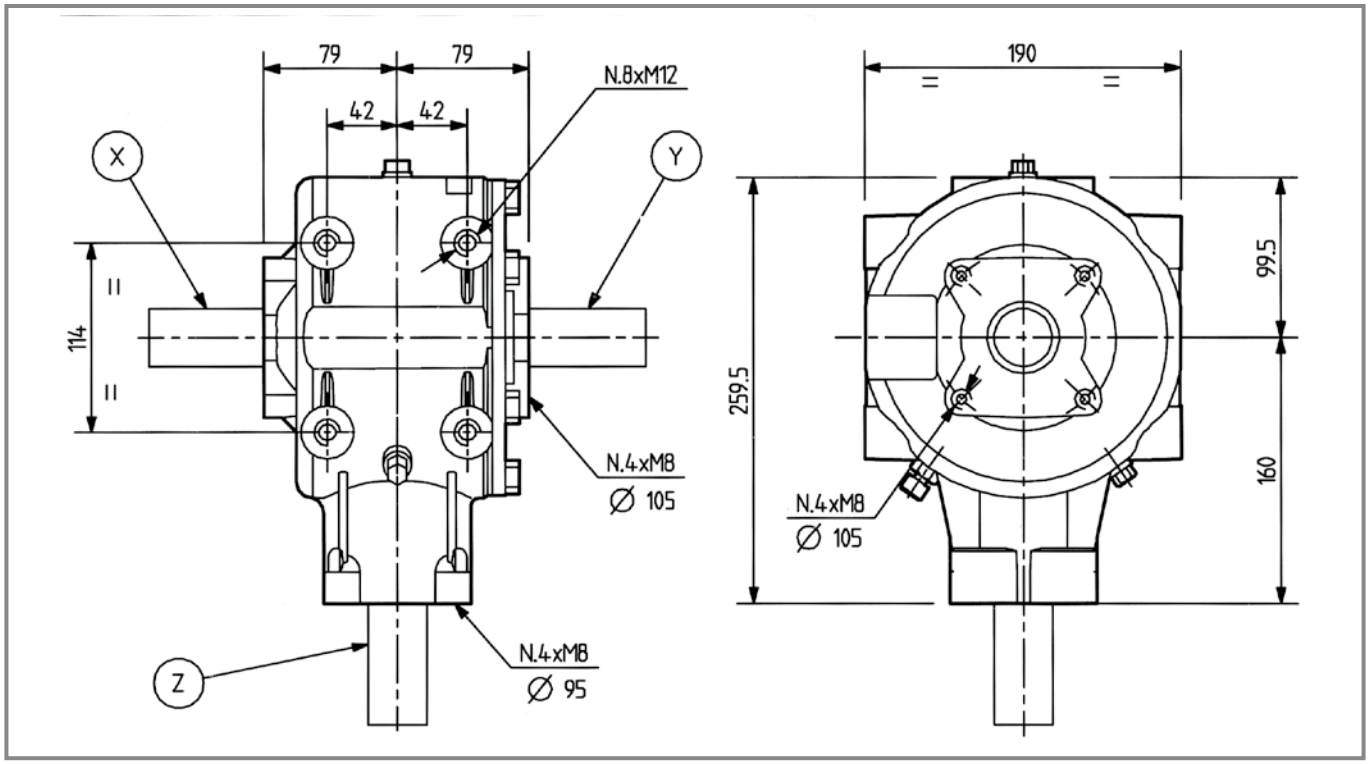
0.00

2.04
Vers. T-304C

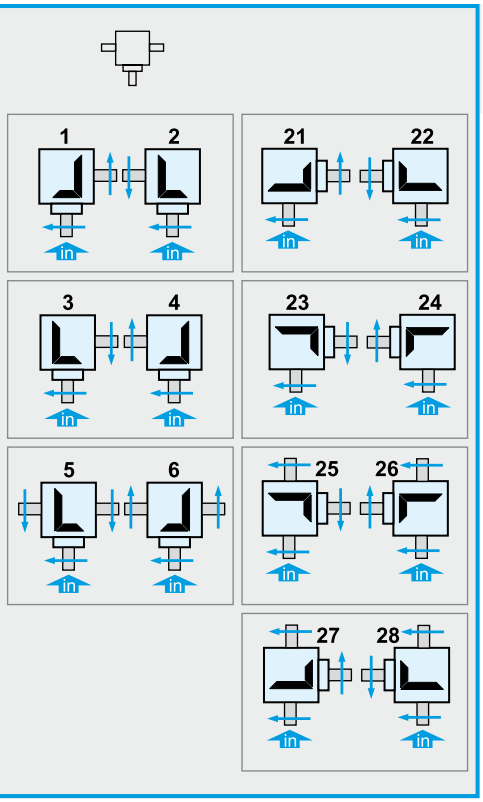


kg	[kg]	19

OIL	[l]	1.1



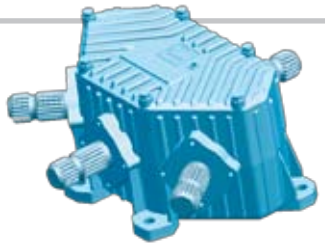
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.50**	750	**36.7**	*50.0*	-	-	spec	X	21-22
	1.60	900	**36.7**	*50.0*	-	-		Z	3-4
	1.93	540	**40.4**	*55.0*	35.9	*3328*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	2.14	430	**36.7**	*50.0*	-	-	spec	X	21-22
	3.00	540	**36.8**	*50.0*	21	*1946*	std	X-Y	21-22 / 23-24 25-26 / 27-28
	4.50		**28.0**	*38.0*	10.6	*986*		Y	21-22 / 27-28
	5.33		**19.9**	*27.0*	6.3	*591*			27-28
	6.12		**10.3**	*14.0*	-	-	spec	X	25-26
R	**1.93**	540	**27.9**	*38*	92.5	*8564*	std	Z	1-2 / 3-4 / 5-6
	3.00		**18.4**	*25.0*	94.5	*8751*			
	4.50		**11.0**	*15.0*	85.1	*7878*			
	5.33		**9.9**	*13.5*	90.7	*8398*			



comer industries
gearboxes

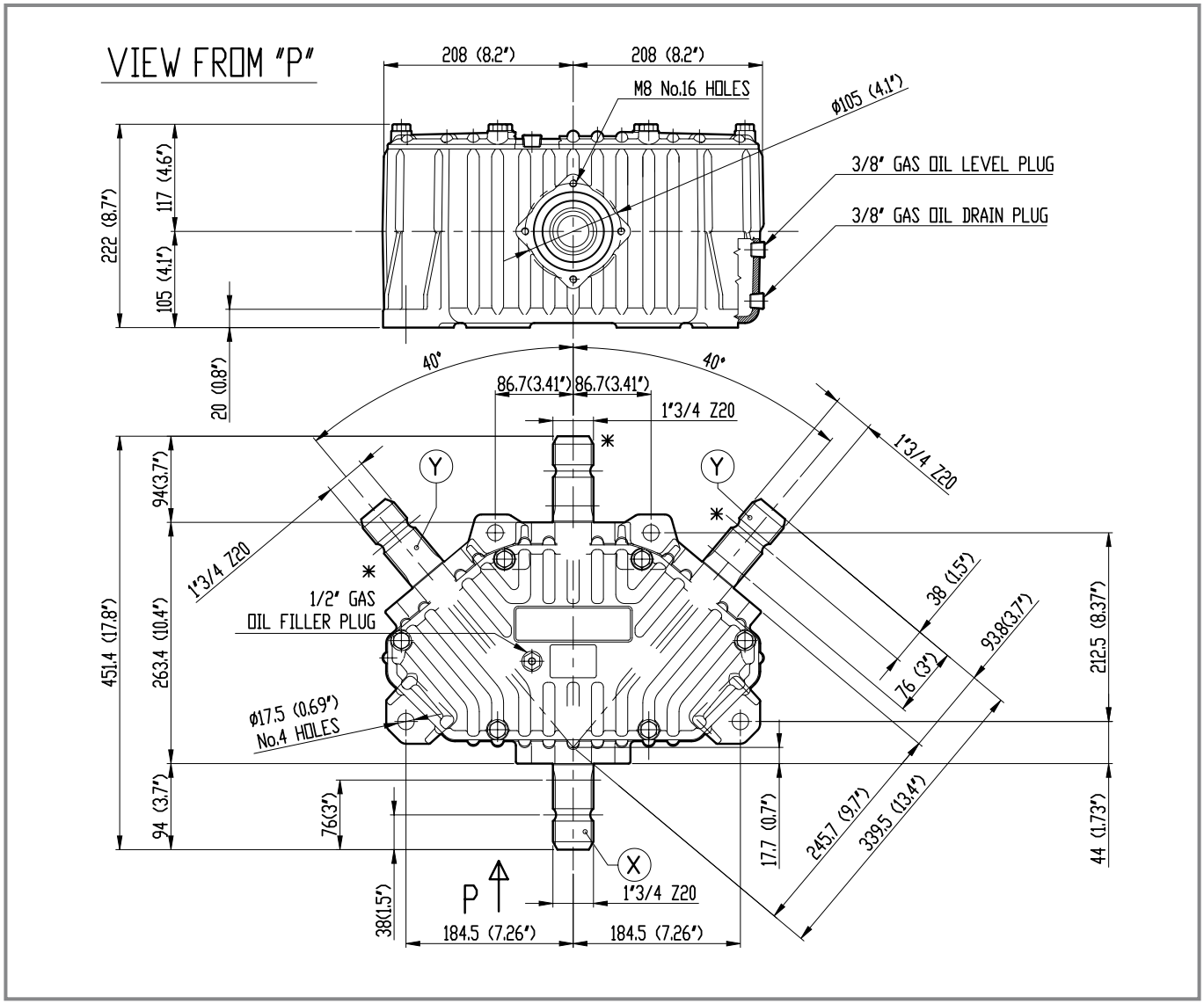
T-305J

1.03

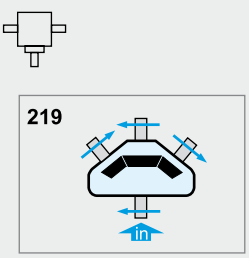


kg	[kg]	30

OIL	[l]	3.2



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.20	540	184	250	-	-	std	X	219
R	1.20	1000	184	250	-	-	std	X	219
	1.35				-	-			



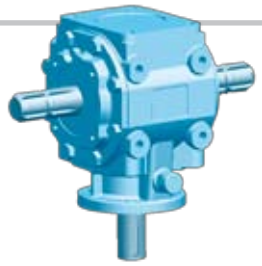
T-310A

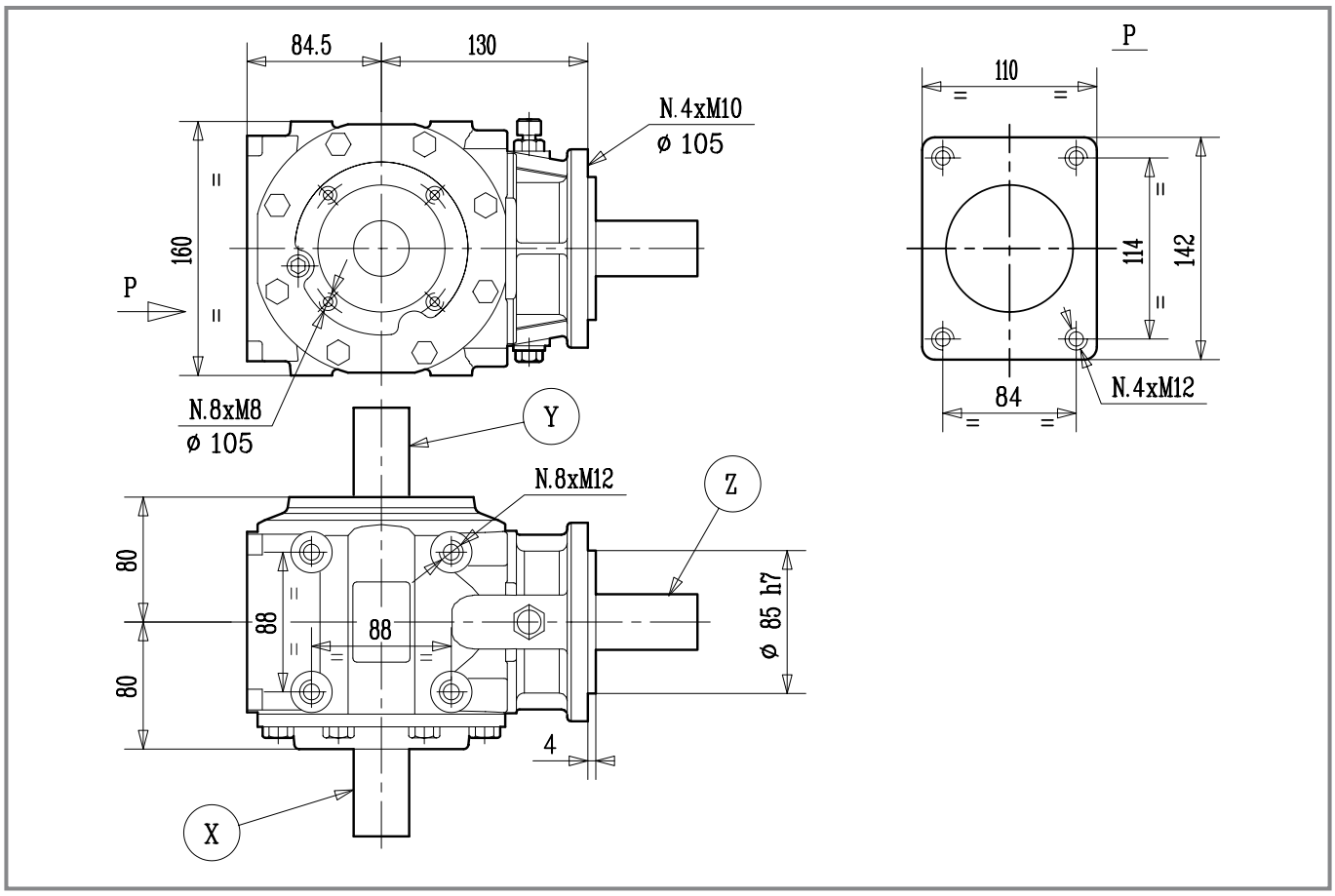
kg	[kg]	18

OIL	[l]	-

0.00

1.01
Vers. TL-310D



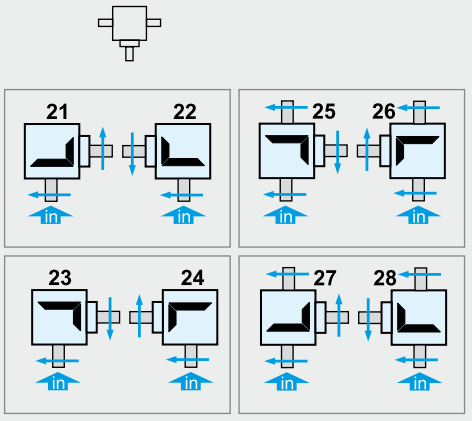


	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.66**	1000	**43.4**	*59.0*	-	-	std	X-Y
	1.93	540	**29.4**	*40.0*	-	-		
	2.50		**25.7**	*35.0*	-	-	spec	
	3.00		**22.0**	*22.0*	-	-	std	

NOTA: Disponibile con ruota libera su corona
(i = 1.66 / 1.93 / 3.00)

NOTE: Available version with free wheel on crown
(i = 1.66 / 1.93 / 3.00)

21-22 / 23-24
25-26 / 27-28



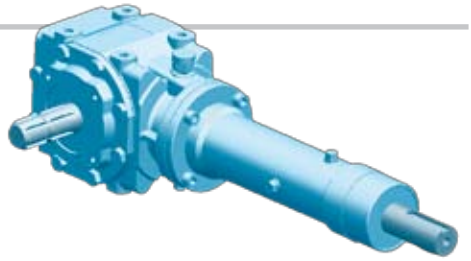
comer industries
gearboxes

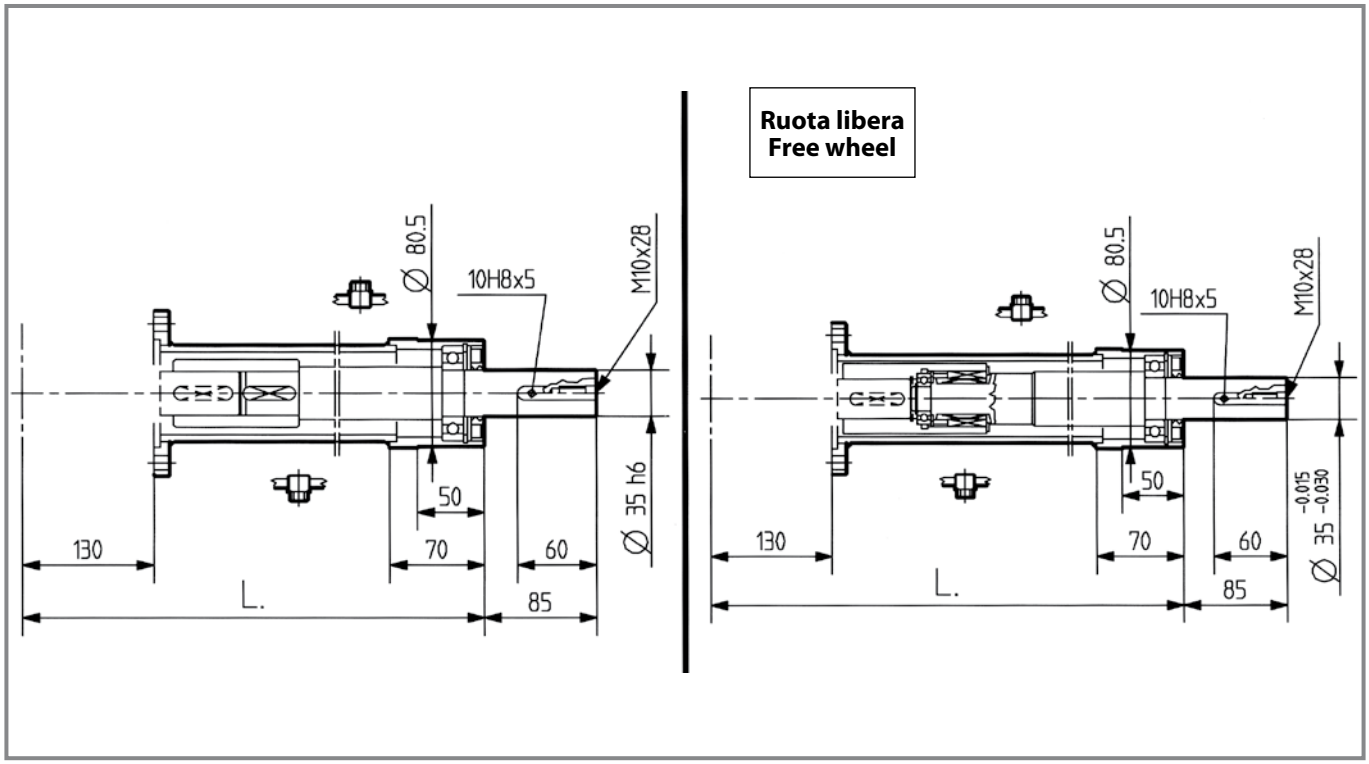
TL-310D

1.01

kg	[kg]	-

OIL	[l]	-



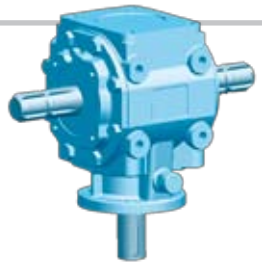


L(mm)	Code
430	310.500
530	310.502
615	310.501
715	310.503

L(mm)	Code
430	310.504
530	310.505
615	310.506
715	310.507

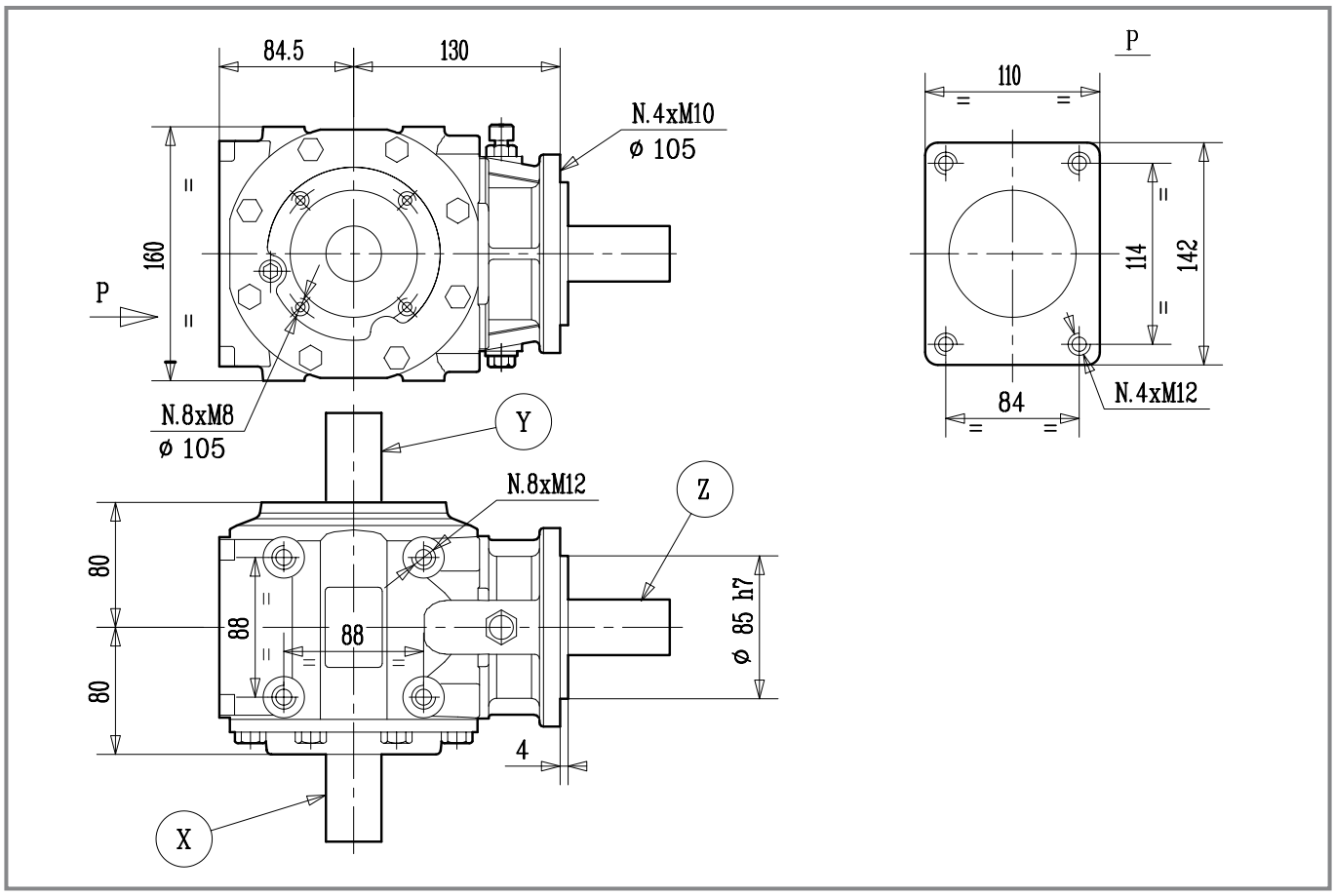
T-310J

0.00



kg	[kg]	18

OIL	[l]	-

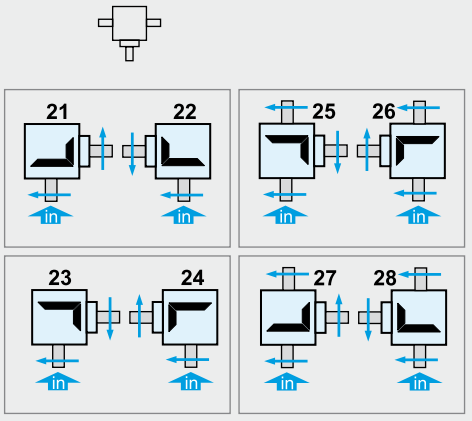


	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.66**	1000	**43.4**	*59.0*	-	-	std	X-Y
	1.93	540	**29.4**	*40.0*	-	-		
	2.50		**25.7**	*35.0*	-	-	spec	
	3.00		**22.0**	*22.0*	-	-	std	

NOTA: Disponibile con ruota libera su corona
(i = 1.66 / 1.93 / 3.00)

NOTE: Available version with free wheel on crown
(i = 1.66 / 1.93 / 3.00)

21-22 / 23-24
25-26 / 27-28

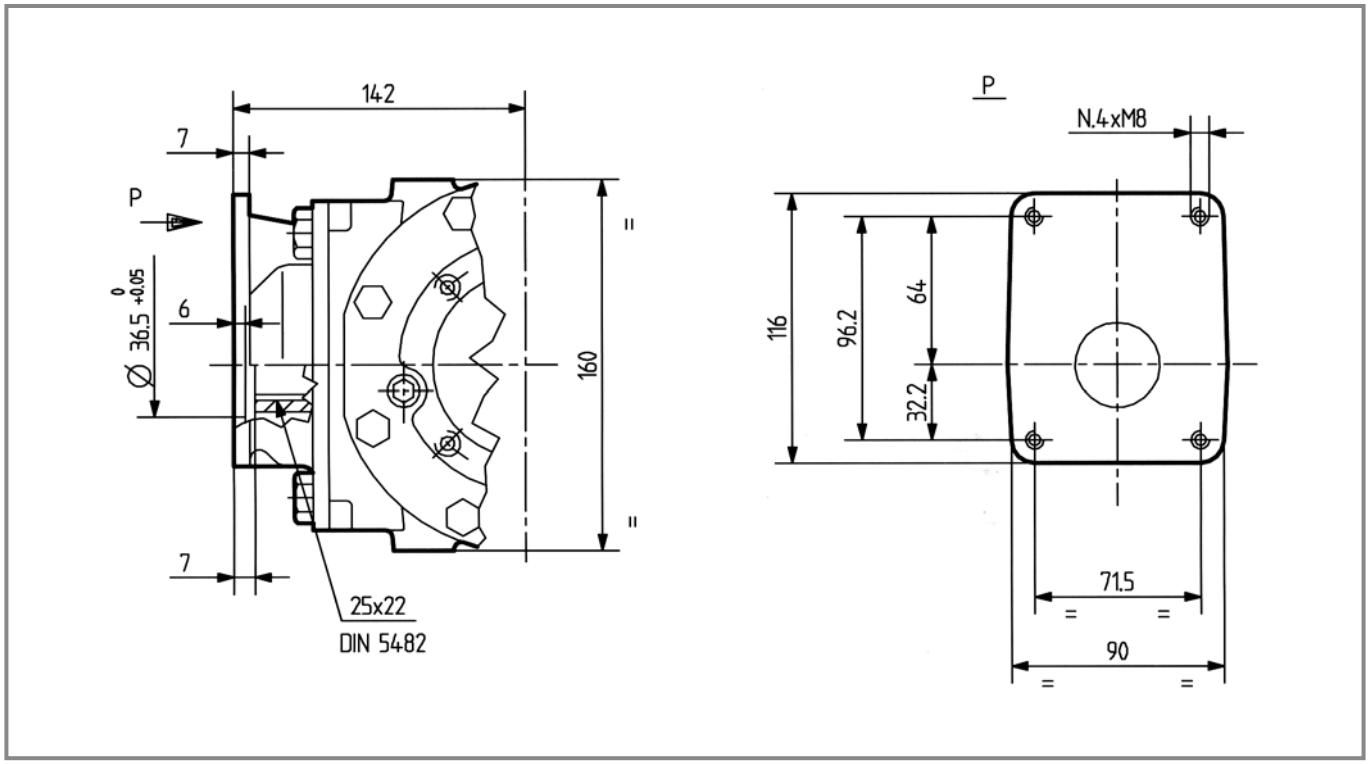


TP-310E

1.01

kg	[kg]	20

OIL	[l]	0.8



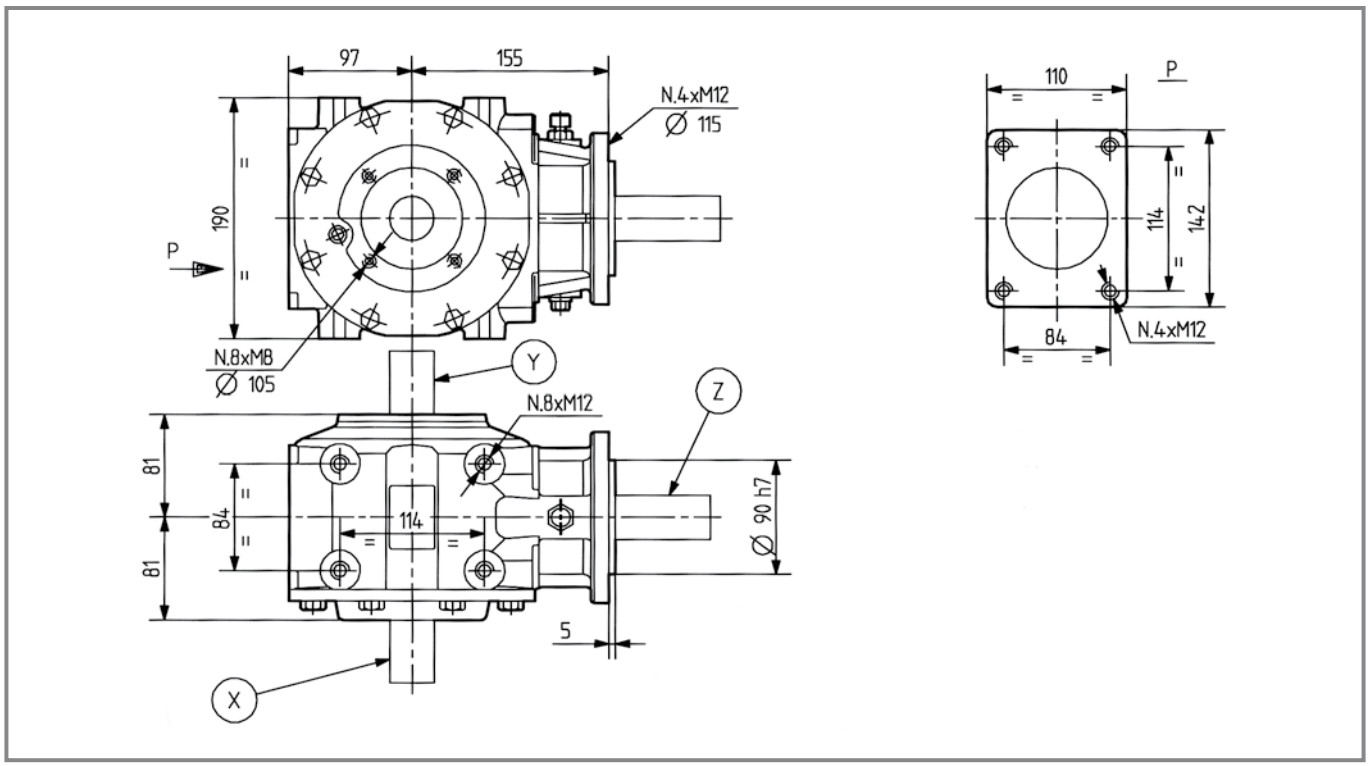
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.60**	540	**31.6**	*43.0*	339	*3138*	std		
	1.93		**29.4**	*40.0*	261	*2420*			
	2.50		**25.7**	*35.0*	176	*1635*			
	3.00		**22.0**	*30.0*	126	*1168*			

T-311A

0.00

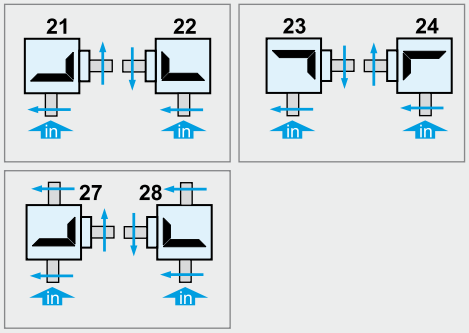
kg	[kg]	23.5

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	1000	**57.3**	*78.2*	320	*2962*	std	X
	1.93	540	**44.4**	*55.0*	359	*3328*		
	2.50		**38.2**	*52.0*	262	*2429*		
	3.00		**36.7**	*50.0*	210	*1946*		

21-22 / 23-24
27-28



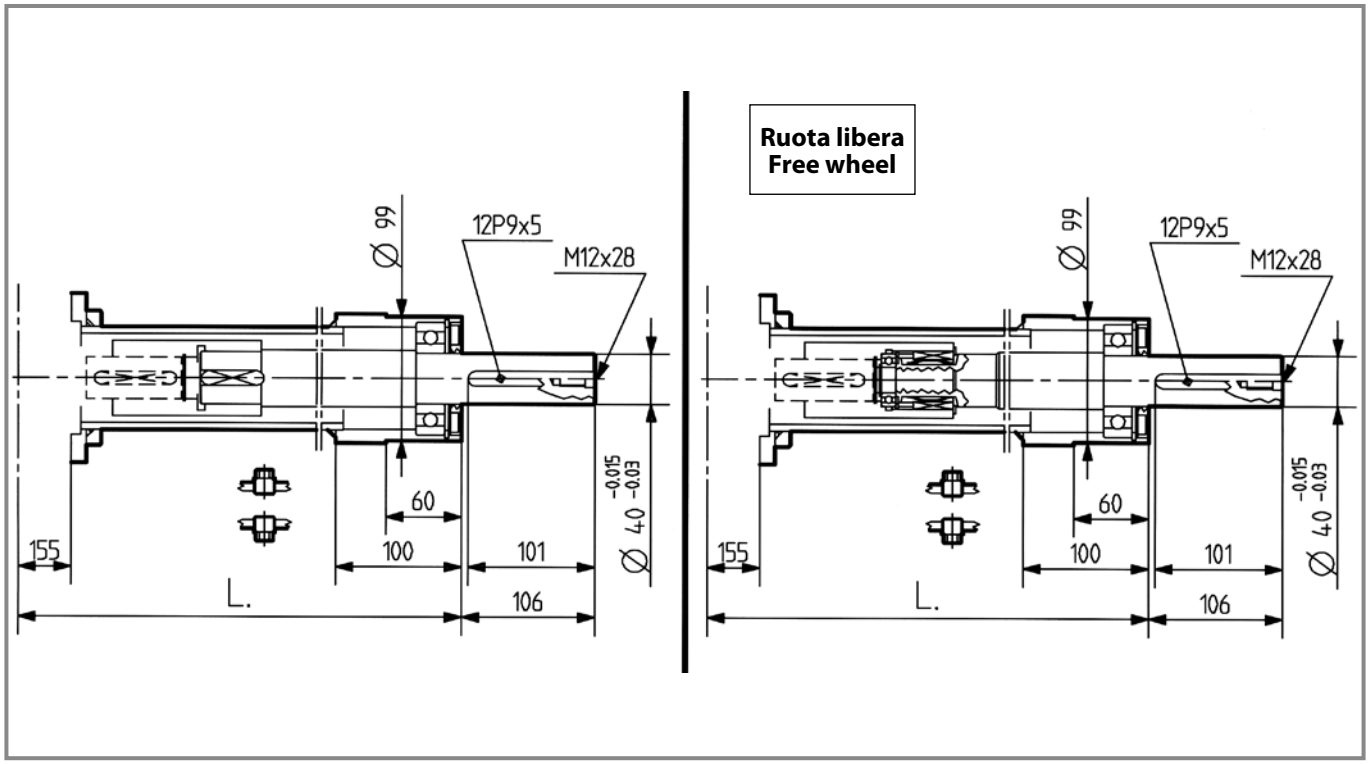
comer industries
gearboxes

TL-311D

1.01

kg	[kg]	-

OIL	[l]	-



L(mm)	Code
500	312.505
615	312.500
780	312.503
950	312.515
1060	312.502
1200	312.508
1350	312.507

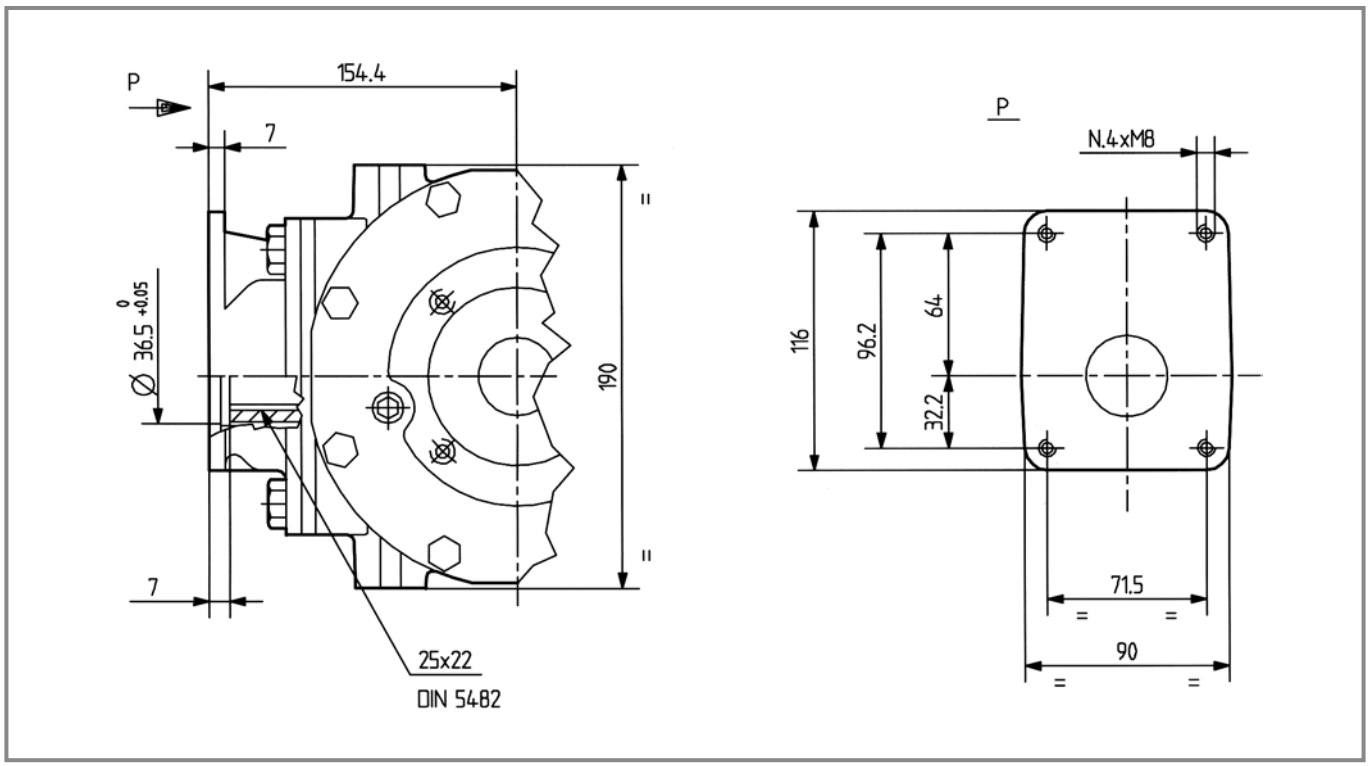
L(mm)	Code
500	312.509
615	312.512
780	312.545
950	312.517
1060	312.533
1200	312.546
1350	312.526

TP-311E

1.01

kg	[kg]	25.5

OIL	[l]	1.2



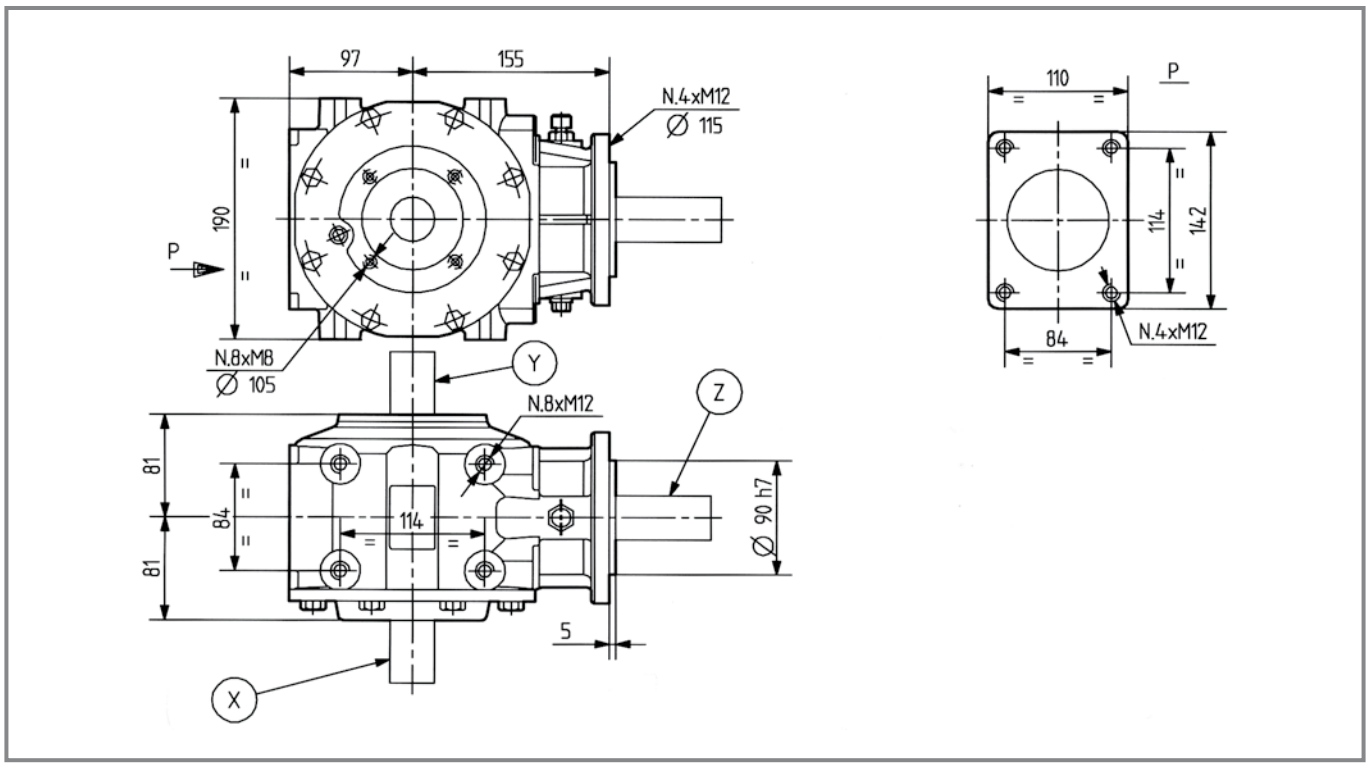
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.60**	540	**41.9**	*57.0*	449	*4160*	std		
	1.93		**44.4**	*55.0*	359	*3328*			
	2.50		**38.2**	*52.0*	262	*2429*			
	3.00		**36.7**	*50.0*	210	*1946*			

T-311J

0.00

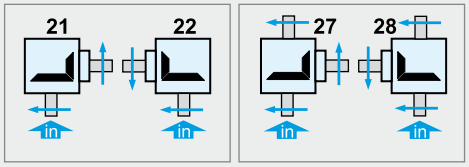
kg	[kg]	23.5

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	1000	**57.3**	*78.0*	320	*2962*	std	X
	1.93	540	-	-	-	-		
	2.50	540	-	-	-	-		
	3.00	540	**36.8**	*50.0*	210	*1946*		

21-22 / 27-28



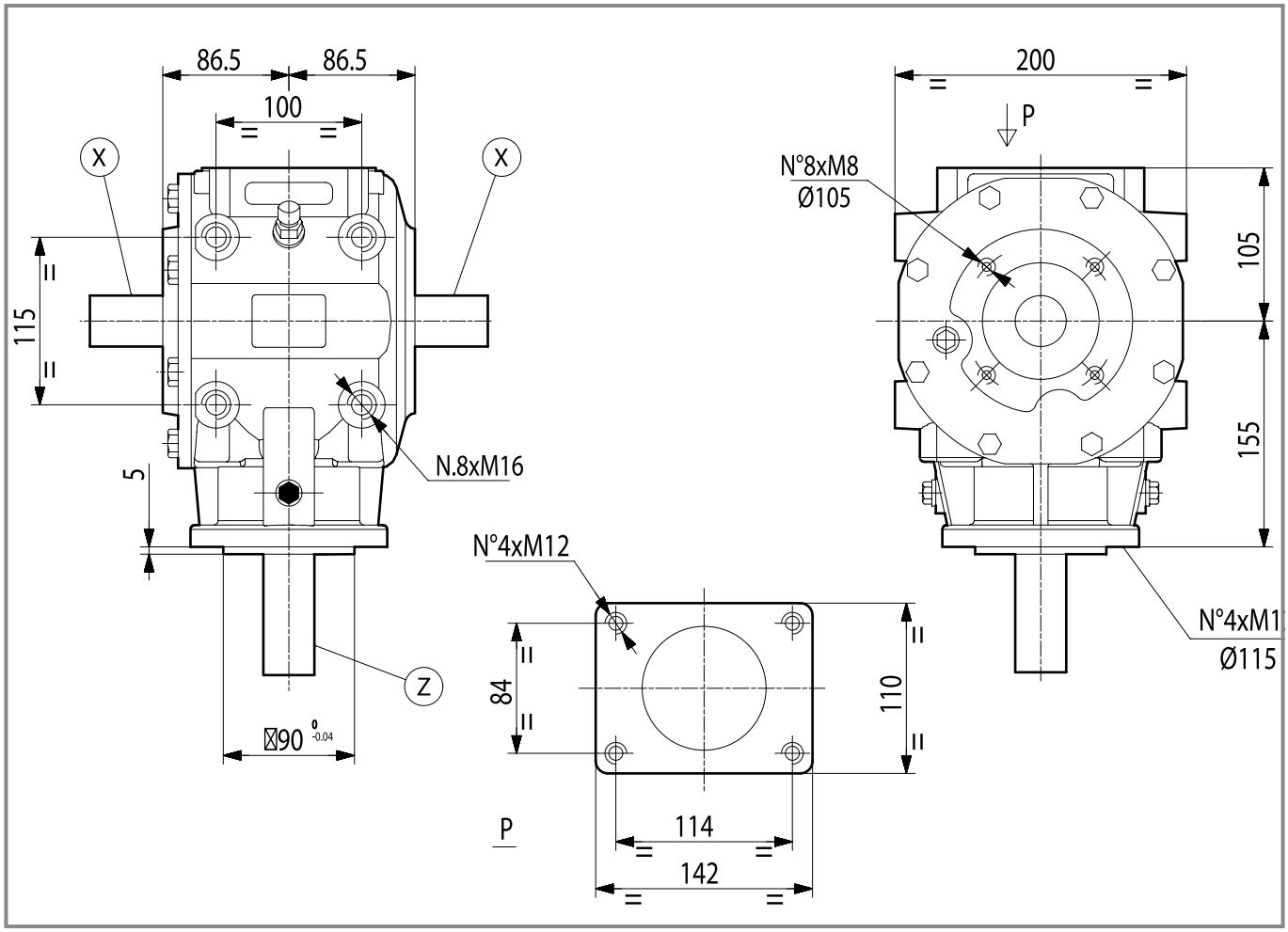
Nota: disponibile versione ruota libera
NOTE: Available version with free wheel

T-312A

0.00

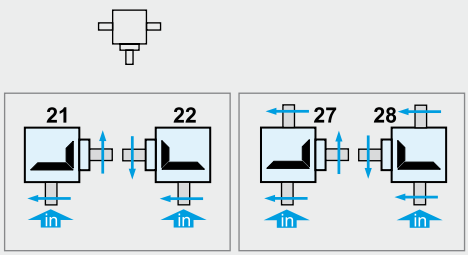
kg	[kg]	27

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	1000	**76.5**	*104*	-	-	std	X
	1.93	540	**63.7**	*73.0*	-	-		
	2.50	540	**50.0**	*68.0*	-	-		
	3.00	540	**62.0**	*45.6*	-	-		

21-22 / 27-28



Nota: disponibile versione ruota libera
NOTE: Available version with free wheel

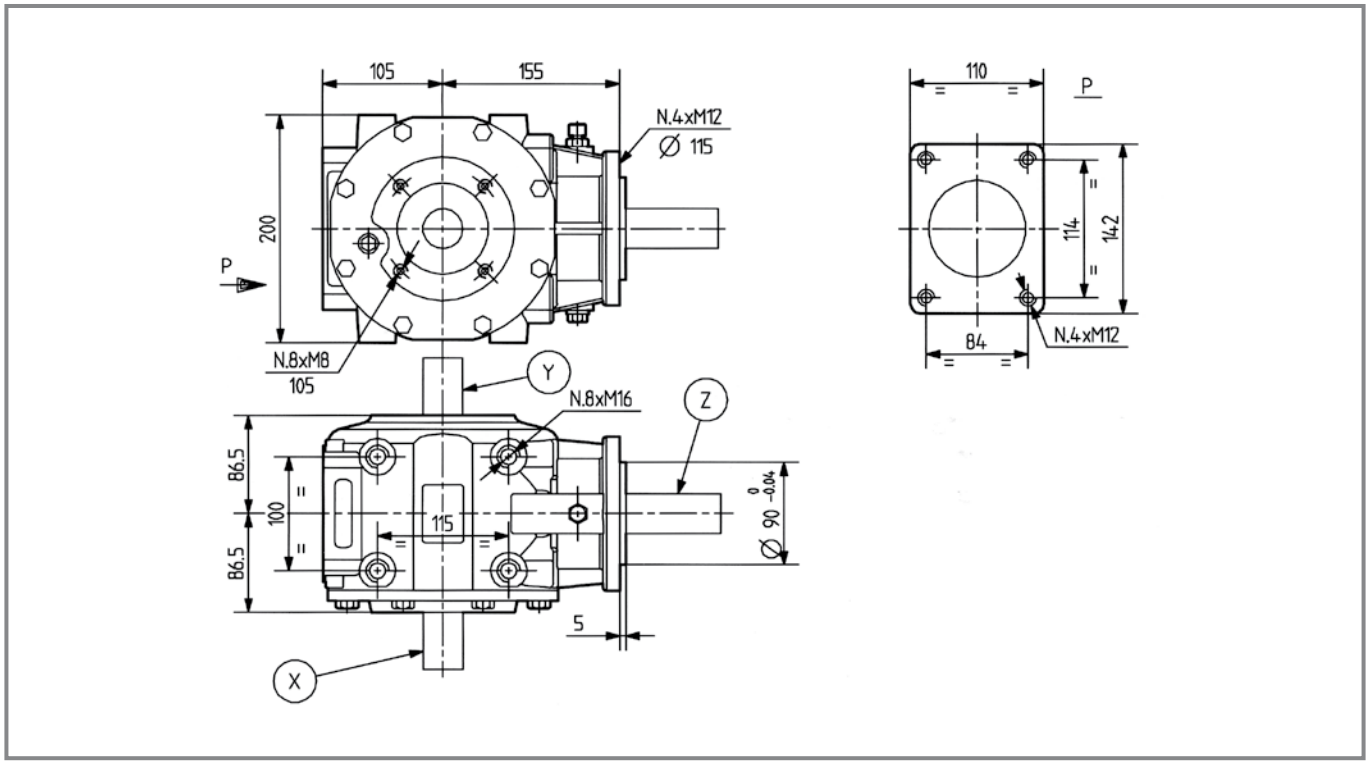
comer industries
gearboxes

TL-312D

1.01

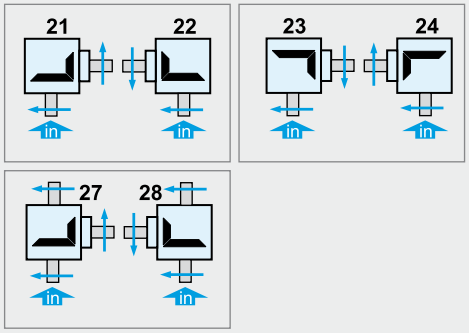
kg	[kg]	27

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	1000	**76.5**	*104*	427	*3949*	std	X
	1.93	540	**53.7**	*73.0*	477	*4417*		
	2.50		**50.0**	*68.0*	343	*3176*		
	3.00		**45.6**	*62.0*	261	*2413*		

21-22 / 23-24
27-28



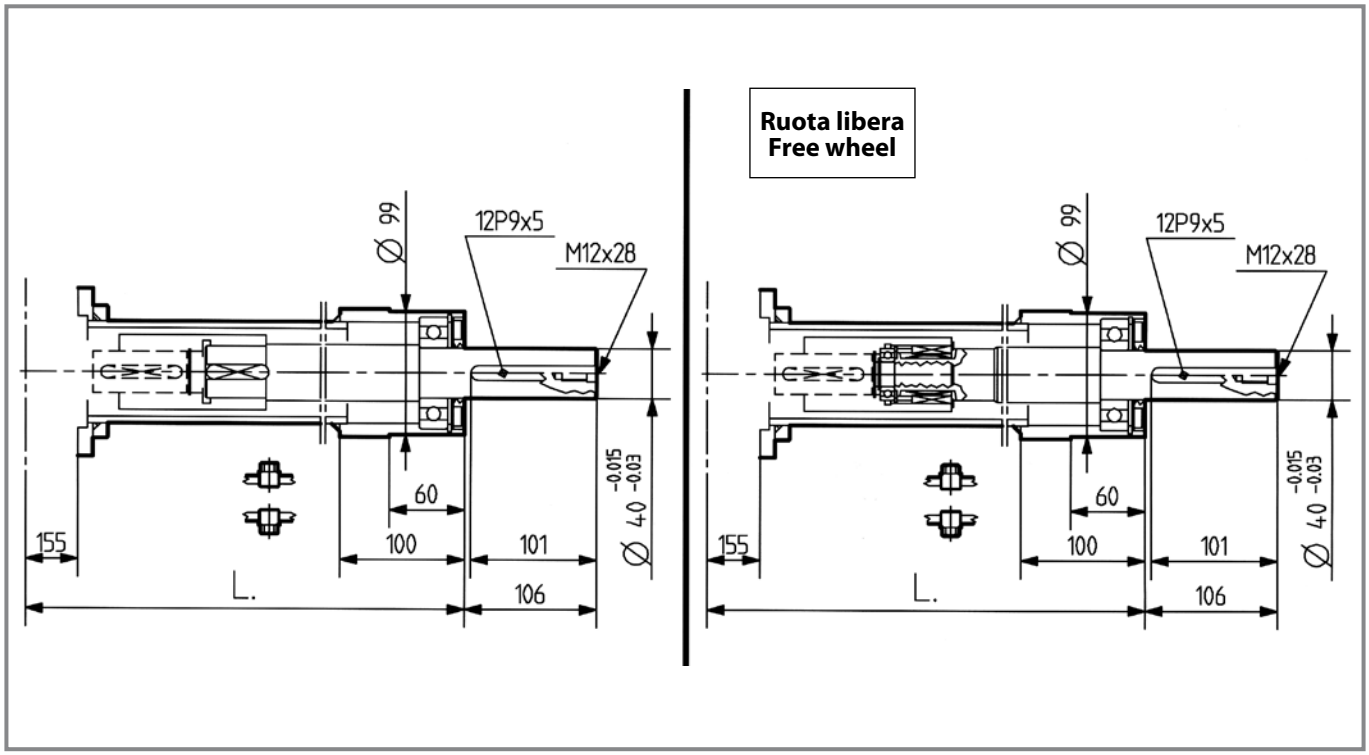
Nota: disponibile versione ruota libera
NOTE: Available version with free wheel

TL-312D

1.01

kg	[kg]	-

OIL	[l]	-



L(mm)	Code
500	312.505
615	312.500
780	312.503
950	312.515
1060	312.502
1200	312.508
1350	312.507

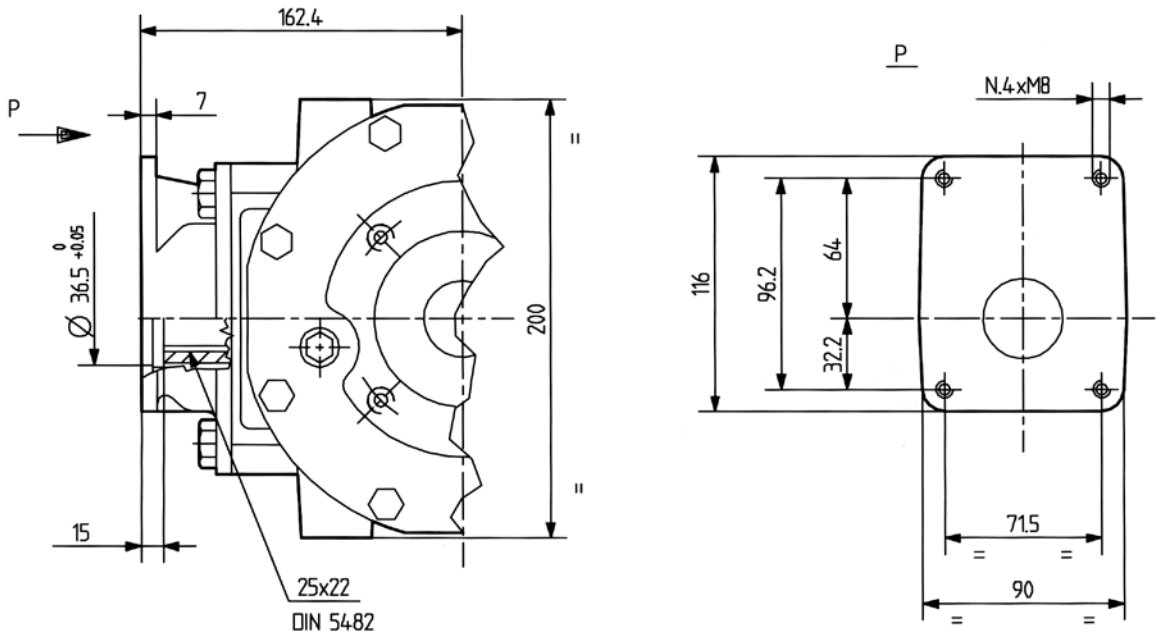
L(mm)	Code
500	312.509
615	312.512
780	312.545
950	312.517
1060	312.533
1200	312.546
1350	312.526

TP-312E

1.01

kg	[kg]	29

OIL	[l]	1.5



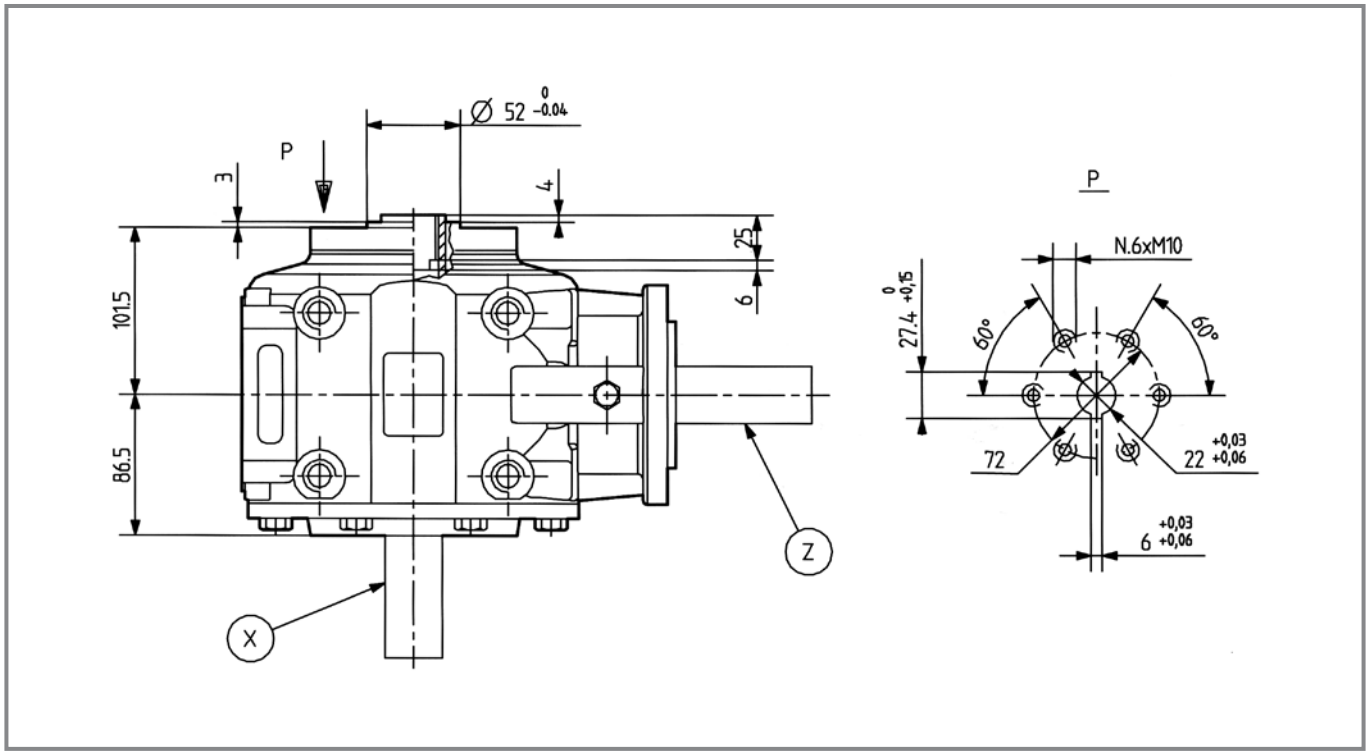
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	540	**55.9**	*76.0*	599	*5547*	std	
	1.93		**53.7**	*73.0*	477	*4417*		
	2.50		**50.0**	*68.0*	343	*3176*		
	3.00		**45.6**	*62.0*	261	*2413*		

TP-312F

1.01

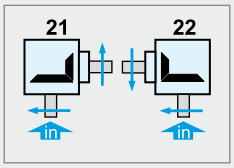
kg	[kg]	28

OIL	[l]	2.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	540	**55.9**	*76.0*	599	*5547*	std	X
	1.93		**53.7**	*73.0*	477	*4417*		
	2.50		**50.0**	*68.0*	343	*3176*		
	3.00		**45.6**	*62.0*	261	*2413*		

21-22

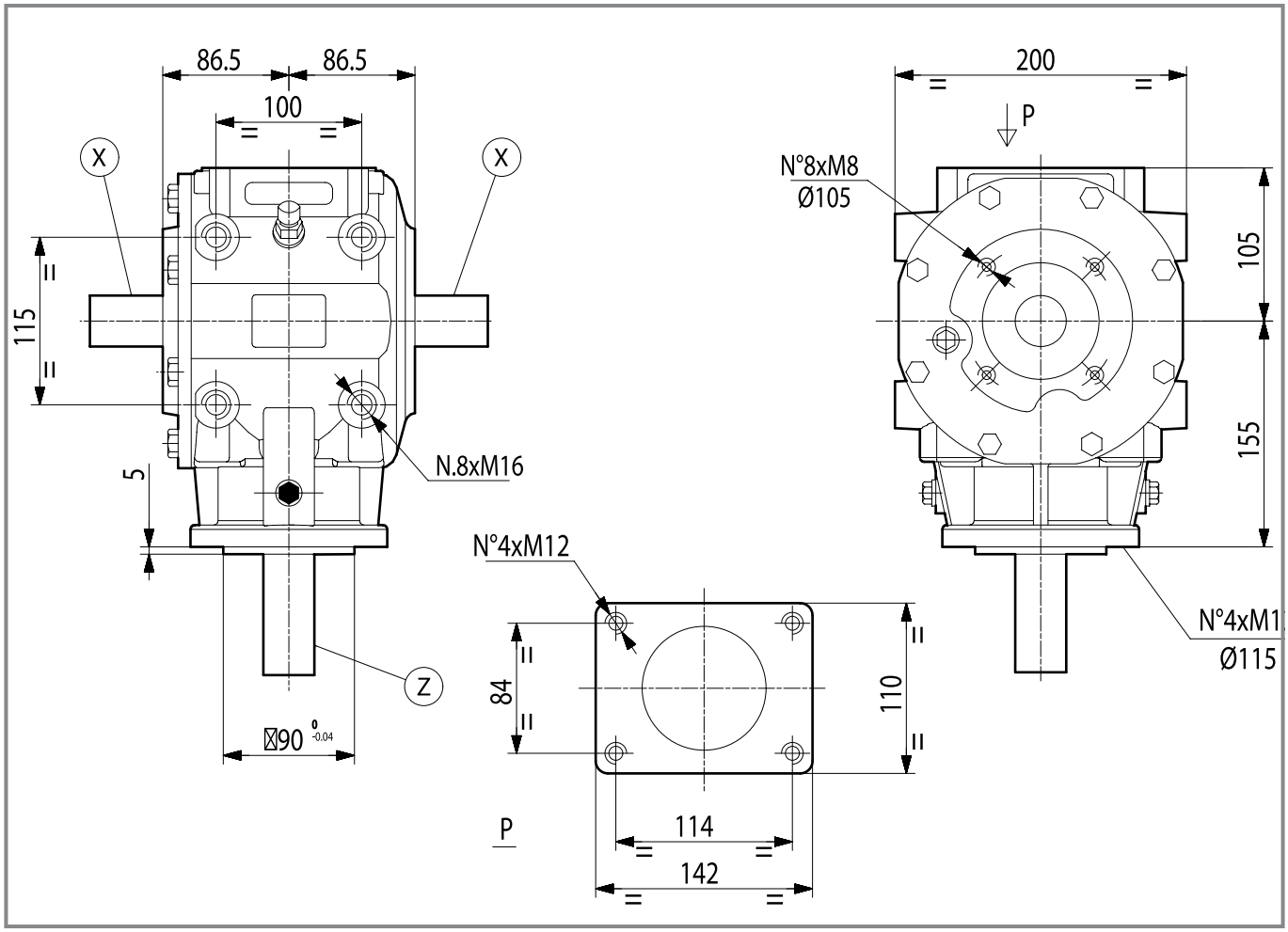


T-313J

0.00

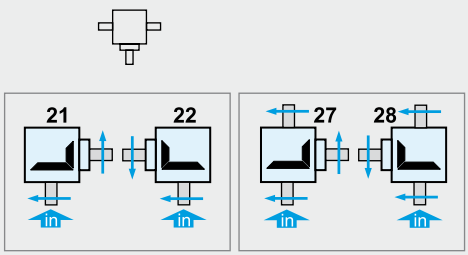
kg	[kg]	27

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**1.60**	1000	**76.5**	*104*	-	-	std	X
	1.93	540	**63.7**	*73.0*	-	-		
	2.50	540	**50.0**	*68.0*	-	-		
	3.00	540	**62.0**	*45.6*	-	-		

21-22 / 27-28



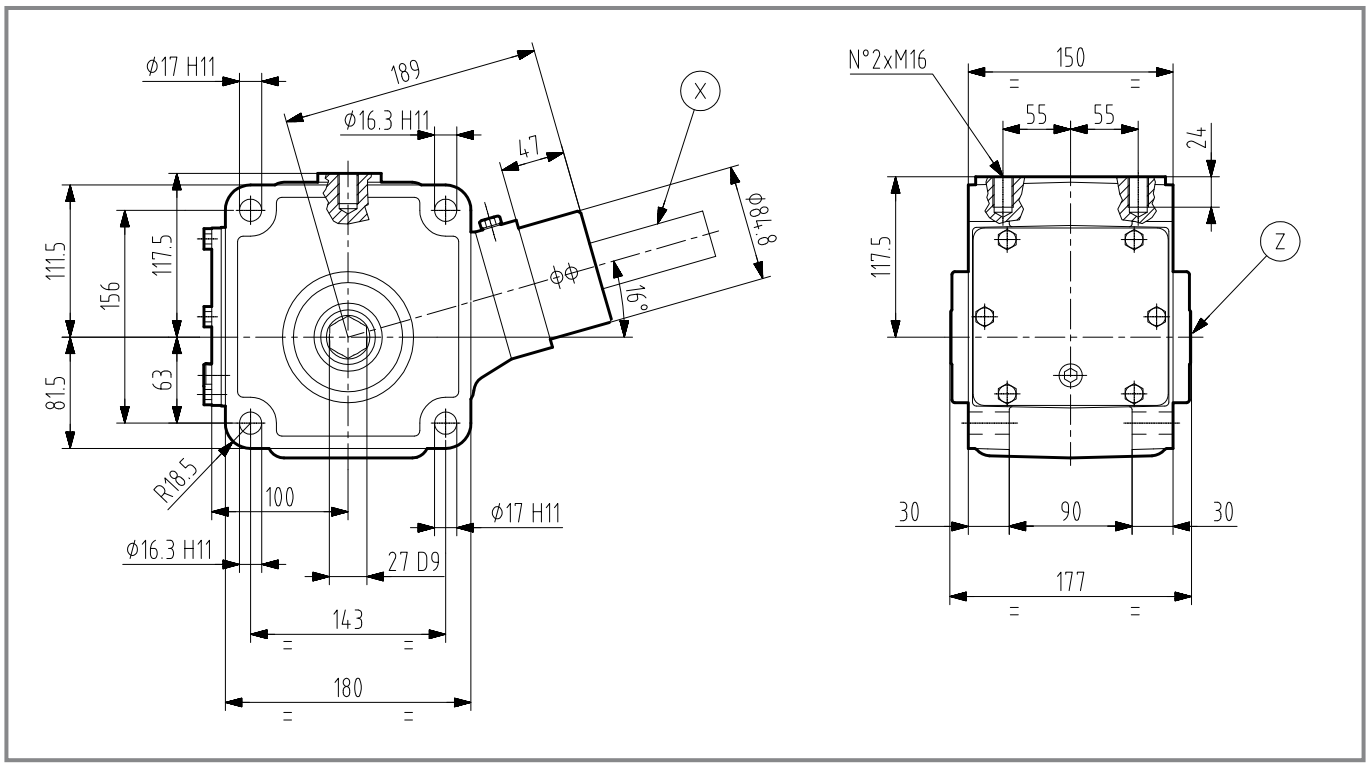
Nota: disponibile versione ruota libera
NOTE: Available version with free wheel

L-318J

4.05

kg	[kg]	25

OIL	[l]	1.2



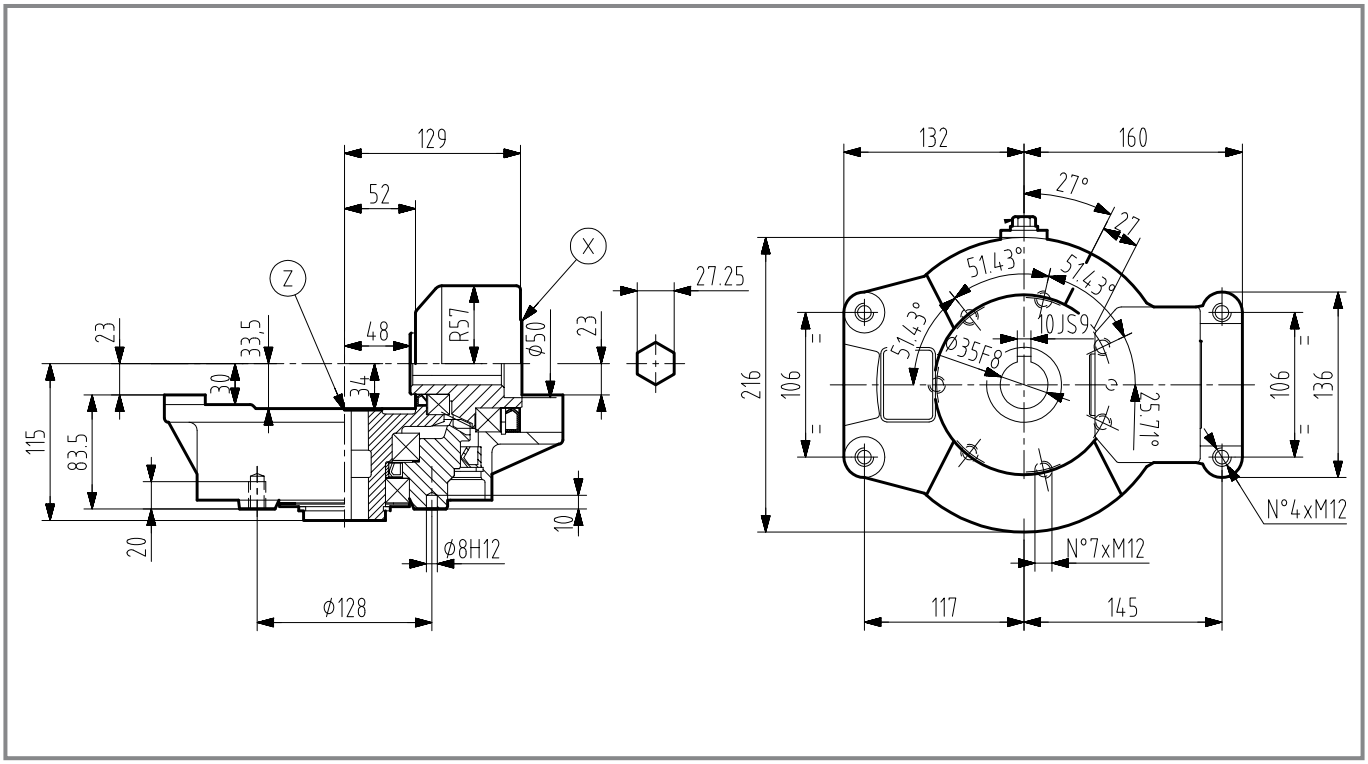
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.58	540	20.0	27.0	-	-	std	X	-
	1.77				-	-			-

L-319J

4.05

kg	[kg]	19

GREASE	[l]	-



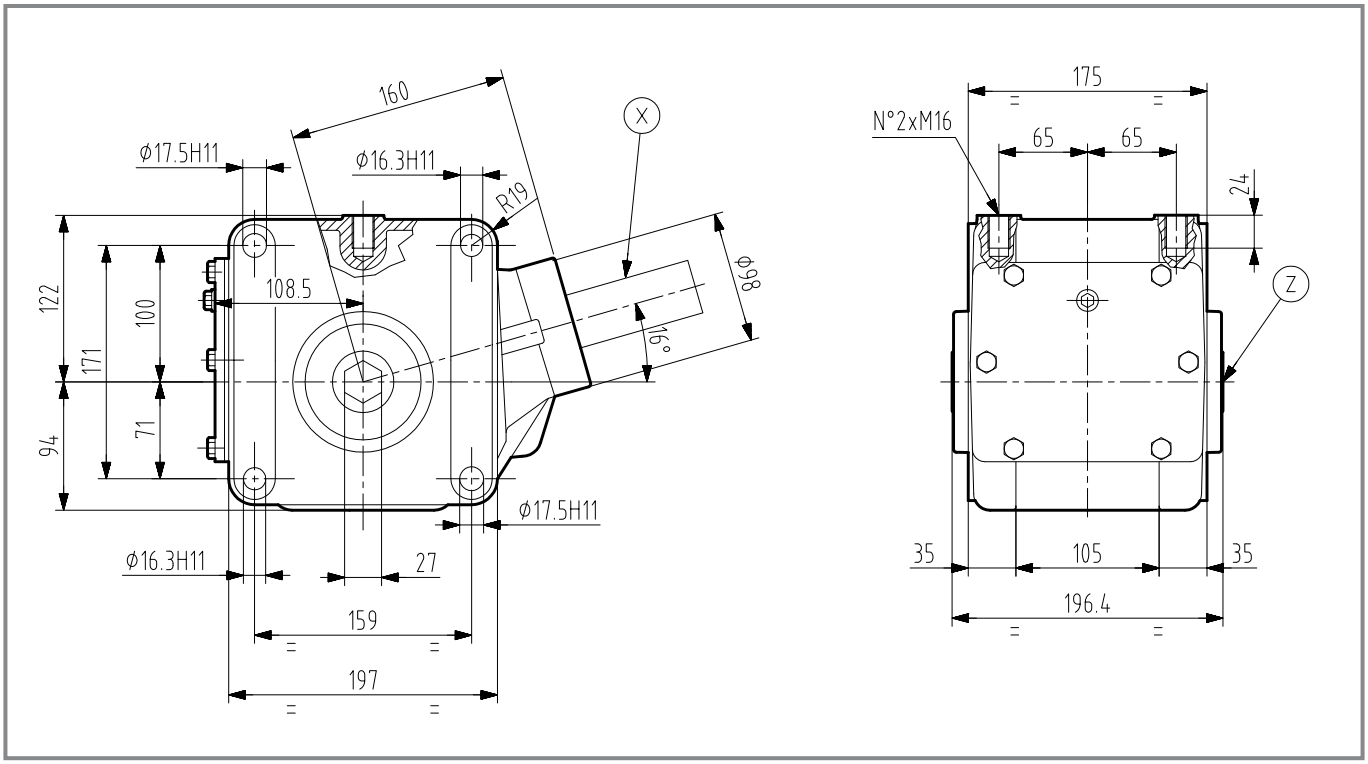
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	2.00	305	6.8	9.0	-	-	std	X	vers. 6 fori corona
	2.00				-	-			vers. 7 fori corona

L-320A

4.05

kg	[kg]	28

OIL	[l]	2.0



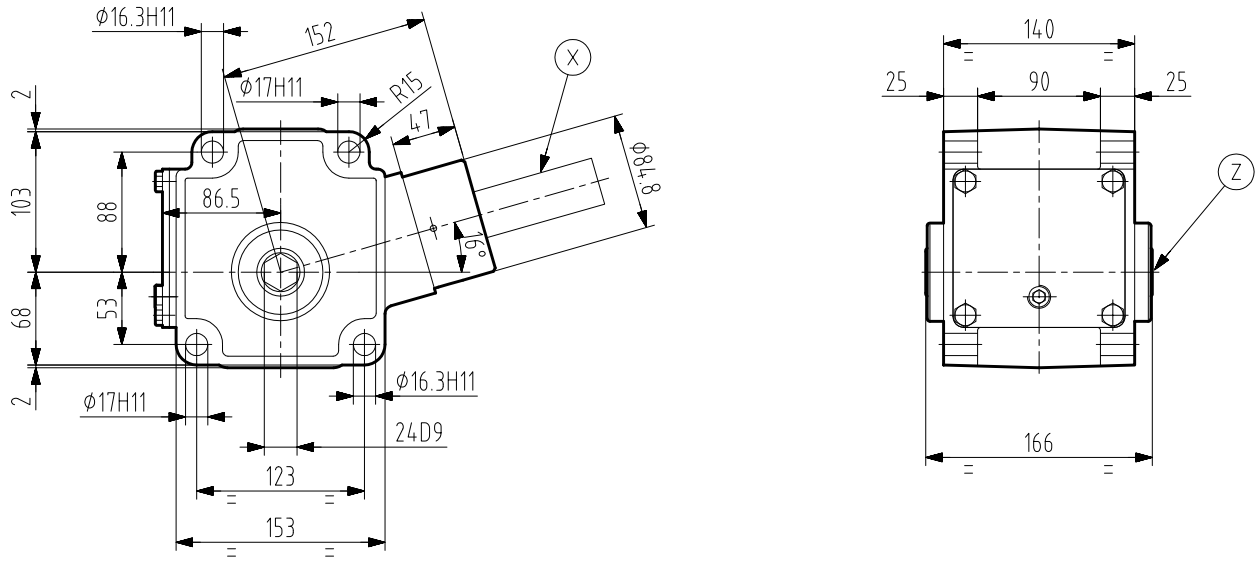
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.77	540	33.0	45.0	-	-	std	X	-

L-323J

4.05

kg	[kg]	14.5

OIL	[l]	0.75



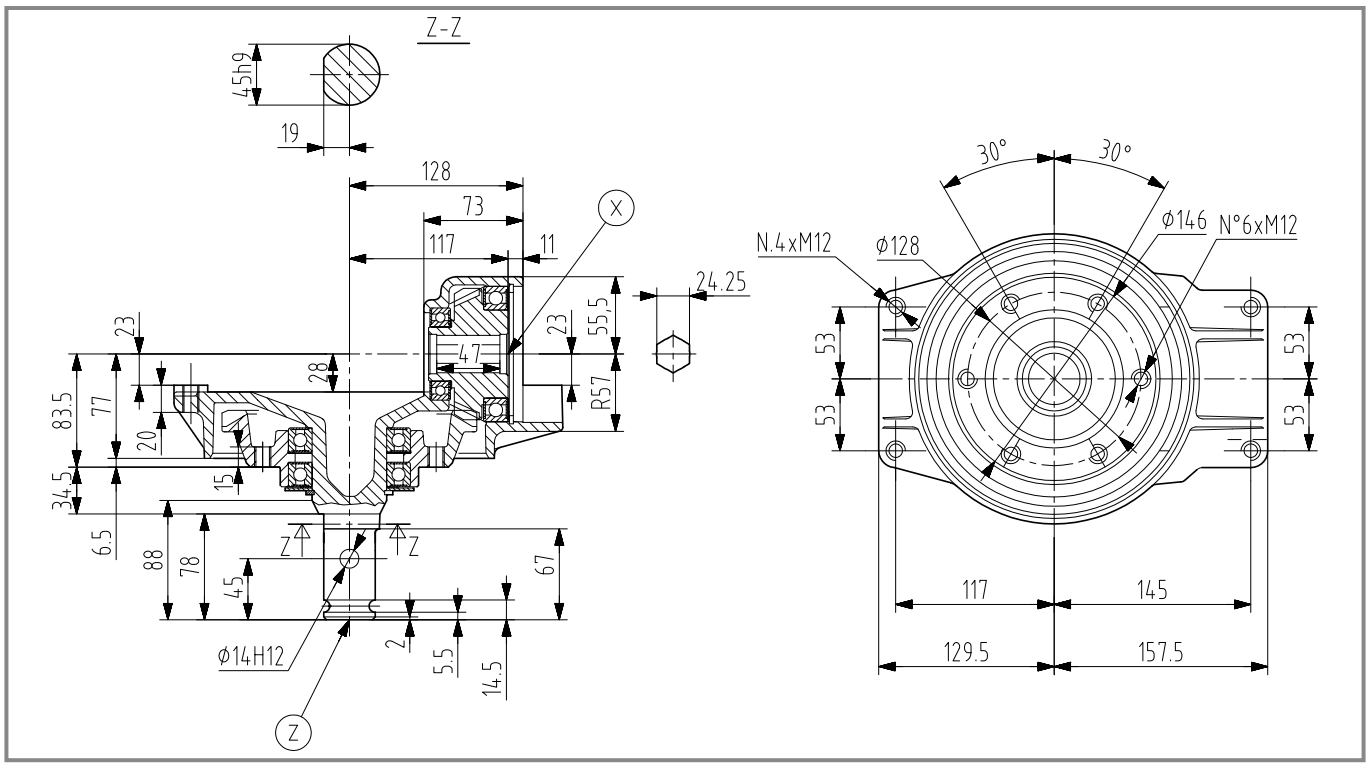
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.54	540	14.0	19.0	-	-	std	X	-
	1.69				-	-			-

L-324J

4.05

kg	[kg]	14.2

GREASE	[l]	-



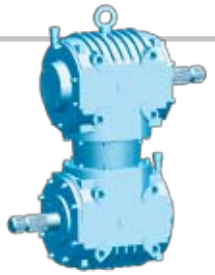
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**2.00**	305	6.0	*8.1*	-	-	std	X	Vers. 5/6 fori

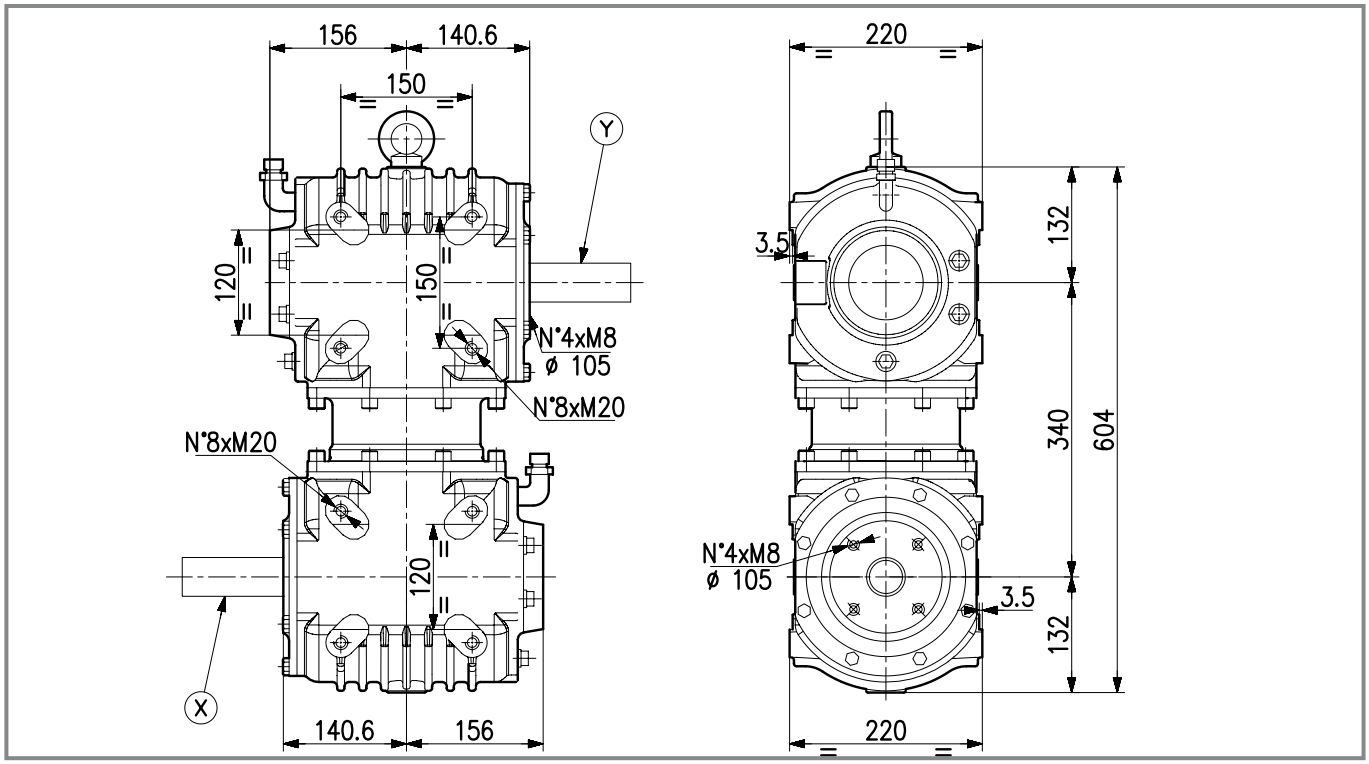
T-329D

0.00

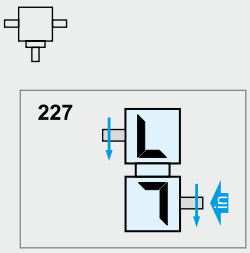
kg	[kg]	99

OIL	[l]	-





i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
1.00	1000	121	*165*	1124	*9949*	std	X	227



T-331A

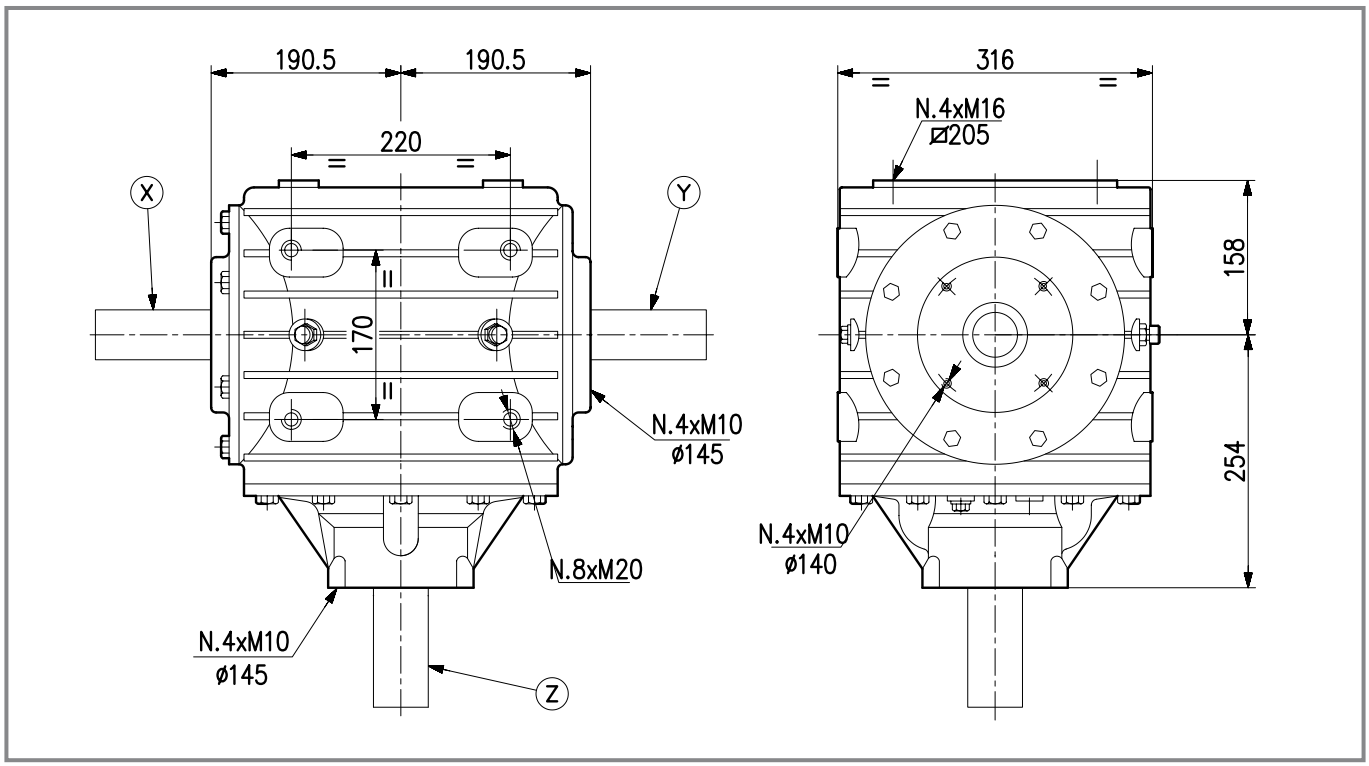
kg	[kg]	-

OIL	[l]	-

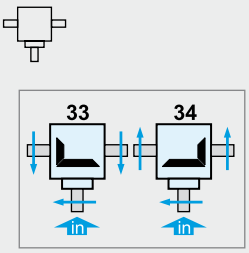
0.00

5.03
TV-331-A
i= 2.54

2.02
TLZ-331-A



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	177	*240*	-	-	std	Z	33-34
	1.00	1000	265	*360*	-	-			
M	**1.35**	1000	206	*280*	-	.	std	Z	33-34
	1.53		242	*329*	-	-			
	1.94	540	206	*280*	-	-			
R	**1.94**	1000	221	*300*	-	.	std	Z	33-34
	2.54		147	*200*	-	-		X	
	3.27	540	80.9	*110*	-	-		Z	



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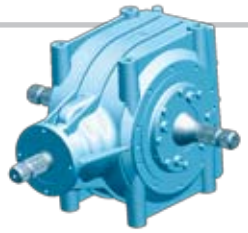
gearboxes

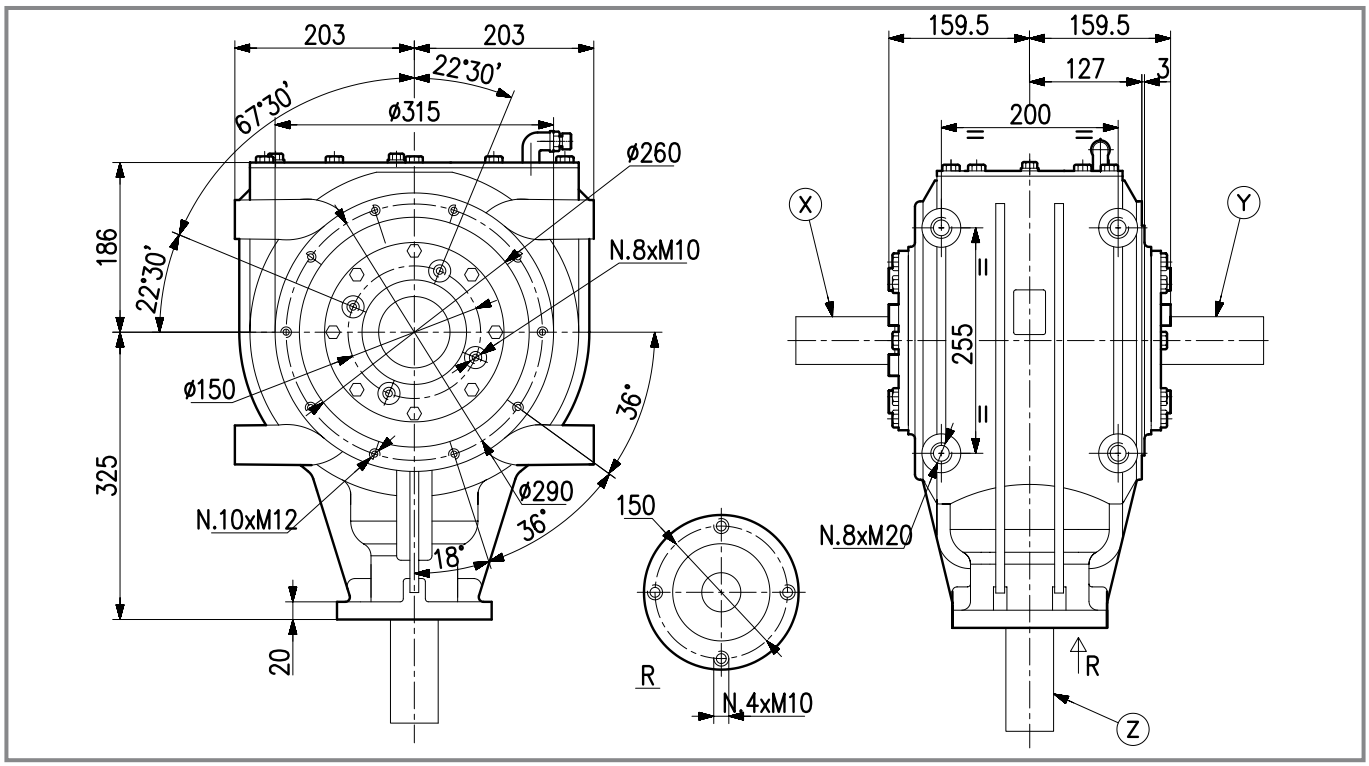
T-332A

0.00



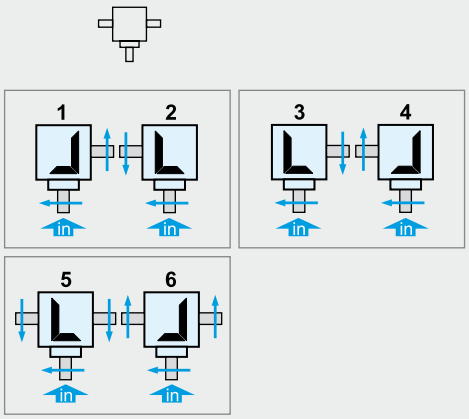
kg	[kg]	118

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**1.94**	540	**184**	*250*	-	-	std	Z
	1.94	1000	**257**	*350*				
	2.50	-	-	-	-	-	spec	
	3.00	540	**125**	*170*	-	-	std	
	3.00	1000	**184**	*250*	-	-		
	4.50	-	-	-	-	-	spec	

1-2 / 3-4 / 5-6

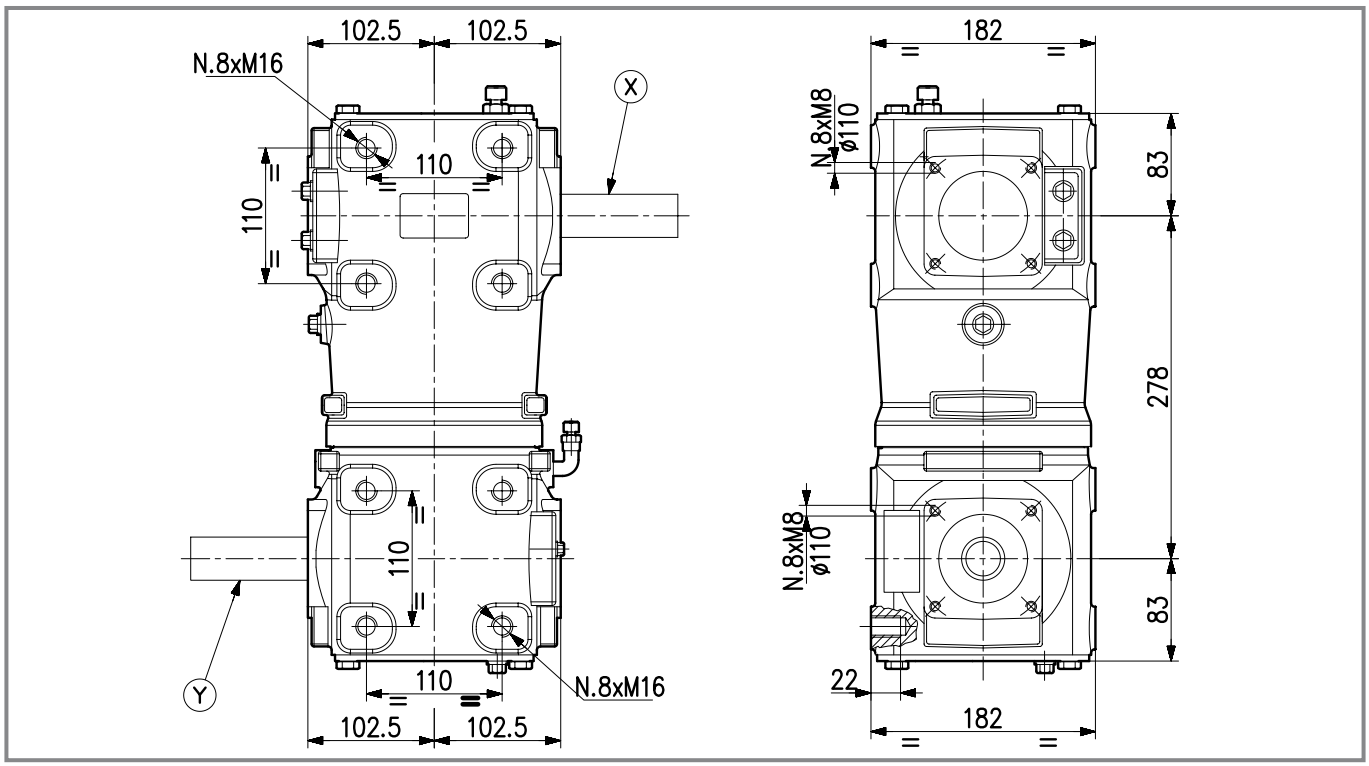


T-334D

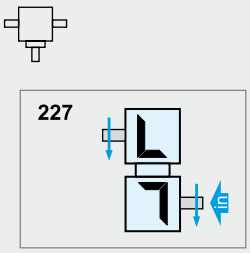
4.01

kg	[kg]	54.3

OIL	[l]	-



i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
1.00	1000	46.0	62.5			std	X-Y	227



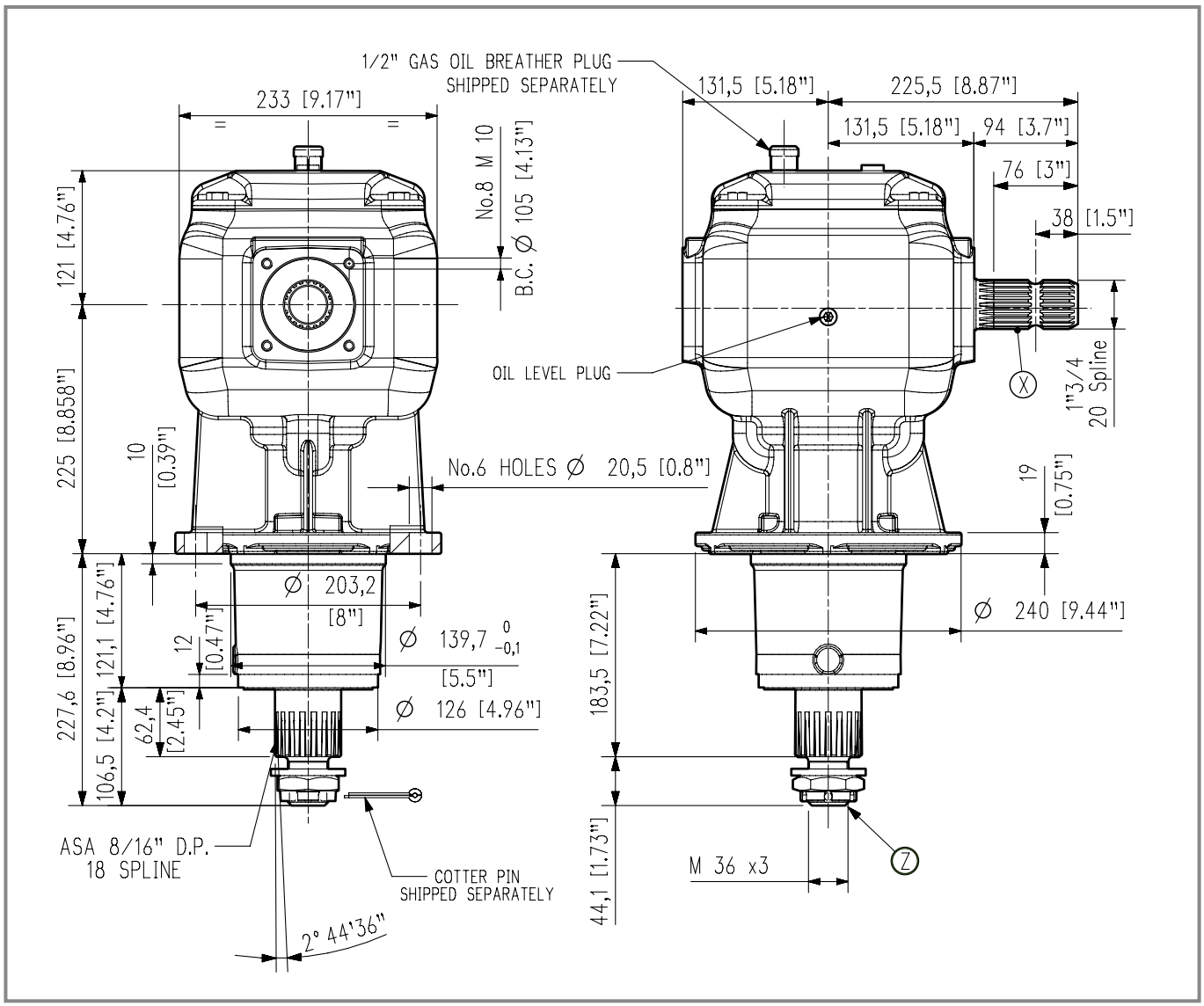
comer industries
gearboxes

LF-349J

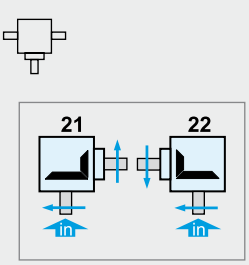
1.03

kg	[kg]	49.5

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**92.0**	*125*	106.2	*9405*	std	X	21-22
M	**1.22**	540	**92.0**	*125*	129.2	*11442*	std	X	21-22
	1.35				116.8	*10334*			
	1.56				101.0	*8945*			
	1.69				93.3	*8263*			

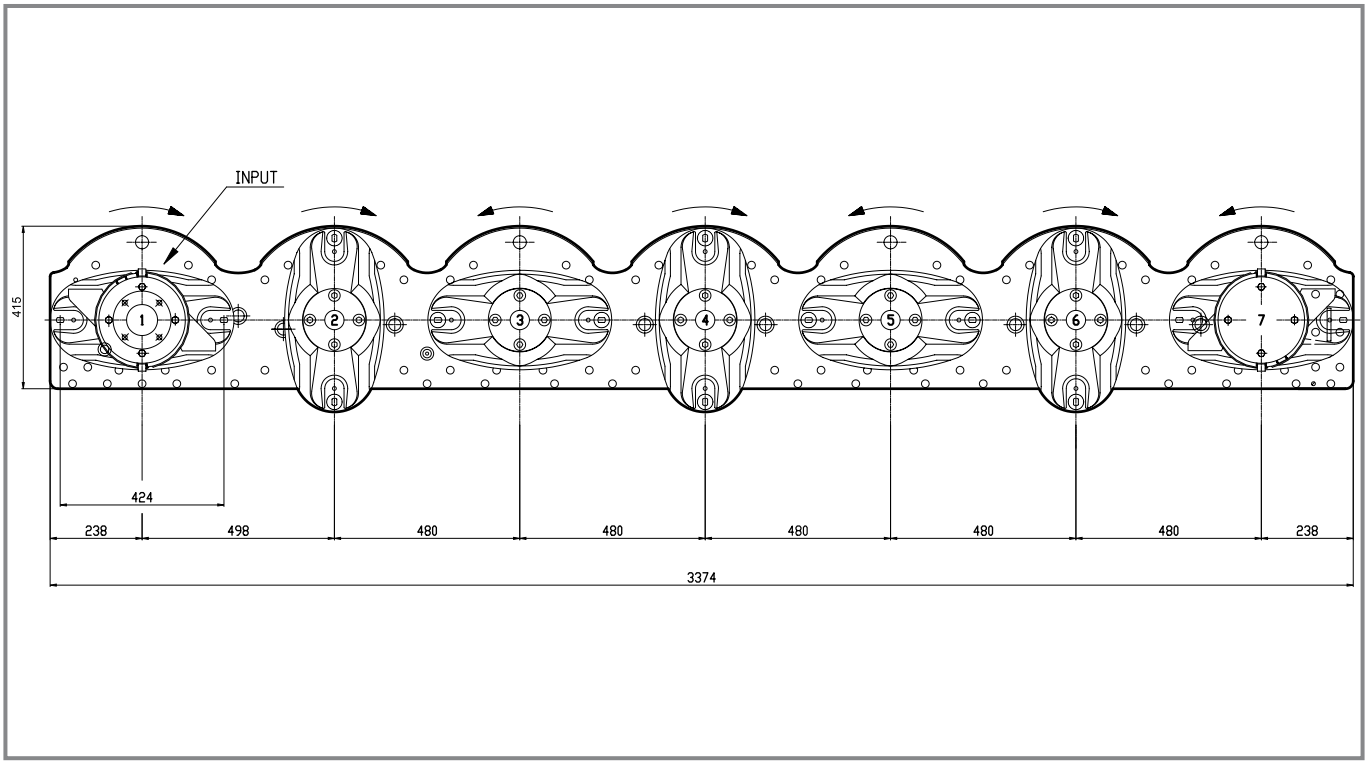


FR-447

Code **447**

kg	[kg]		OIL	[l]	-

4.01



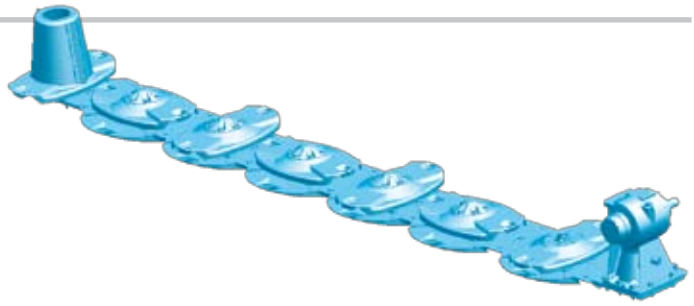
	Fam.	i	rpm	kW	HP	"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec
	FR-445	**1.00**	2500	**25.7**	*35.0*	5	2.50	-	3.1	115	std
—	**FR-446**	**1.00**		**30.9**	*42.0*	6	3.00	-	3.6	143	
	FR-447	**1.00**		**36.0**	*49.0*	7	3.50	-	4.0	165	

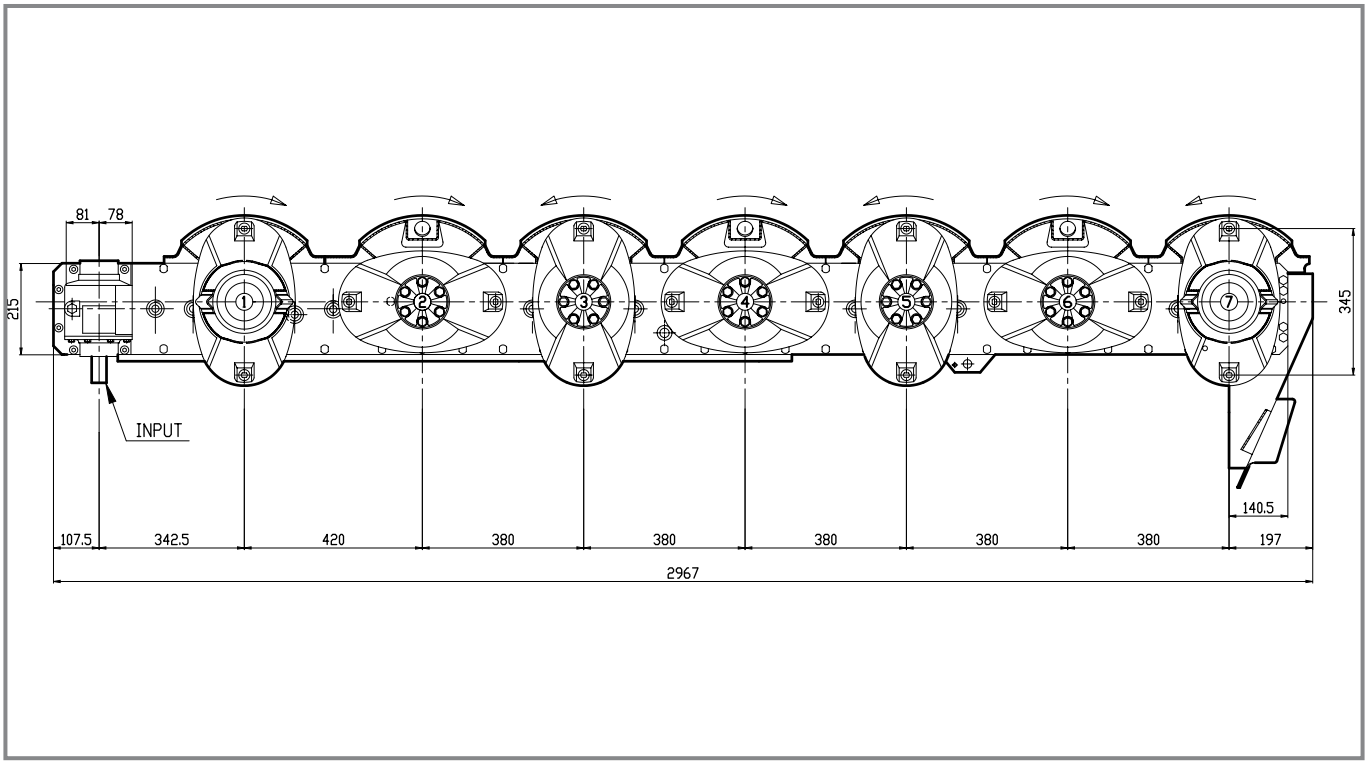
FR-507

Code **507**

kg	[kg]	OIL	[l]	-

4.01





	Fam.	i	rpm	kW	HP	"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec
M	**FR-503**	**2.73**	1080	**15.4**	*21.0*	3	1.3	0.7	1.0	112	std
	FR-504			**20.6**	*28.0*	4	1.7		1.5	120	
	FR-505			**25.7**	*35.0*	5	2.1		2.1	145	
	FR-506			**30.1**	*42.0*	6	2.4		2.7	167	
	FR-507			**36.0**	*49.0*	7	2.9		3.2	170	
	FR-508			**41.0**	*56.0*	8	3.2		4.2	224	

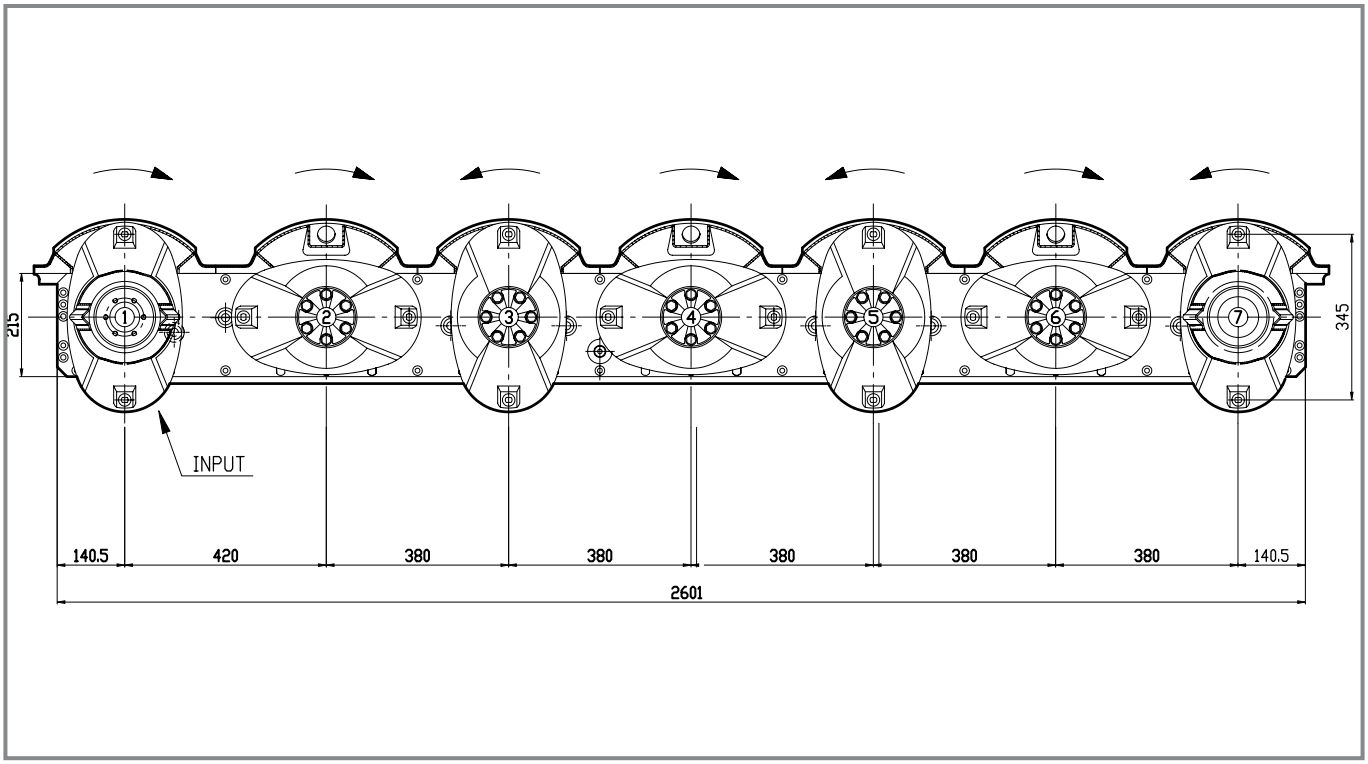
FR-522

Code **522**

kg	[kg]	-

OIL	[l]	-

4.01



	Fam.	i	rpm	kW	HP	"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec
	FR-519	**1.00**	3000	**20.6**	*28.0*	4	1.3	-	1.5	94	std
	FR-520	**1.00**		**25.7**	*35.0*	5	1.7	-	1.5	116	
	FR-521	**1.00**		**30.9**	*42.0*	6	2.1	-	1.8	138	
	FR-522	**1.00**		**36.0**	*49.0*	7	2.4	-	2.3	165	
	FR-523	**1.00**		**41.2**	*56.0*	8	2.9	-	2.8	198	
	FR-524	**1.00**		**46.3**	*63.0*	9	3.2	-	3.1		

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gearboxes

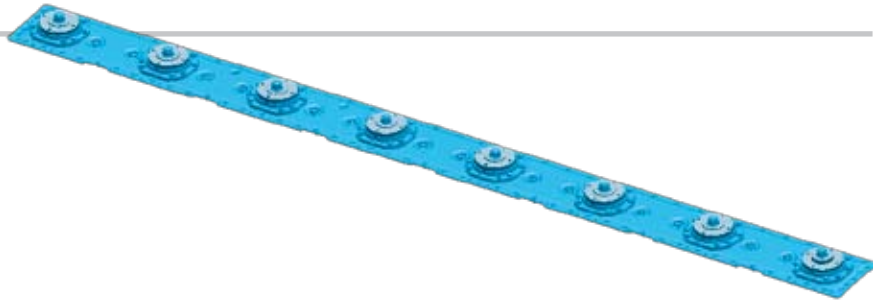
FR-588

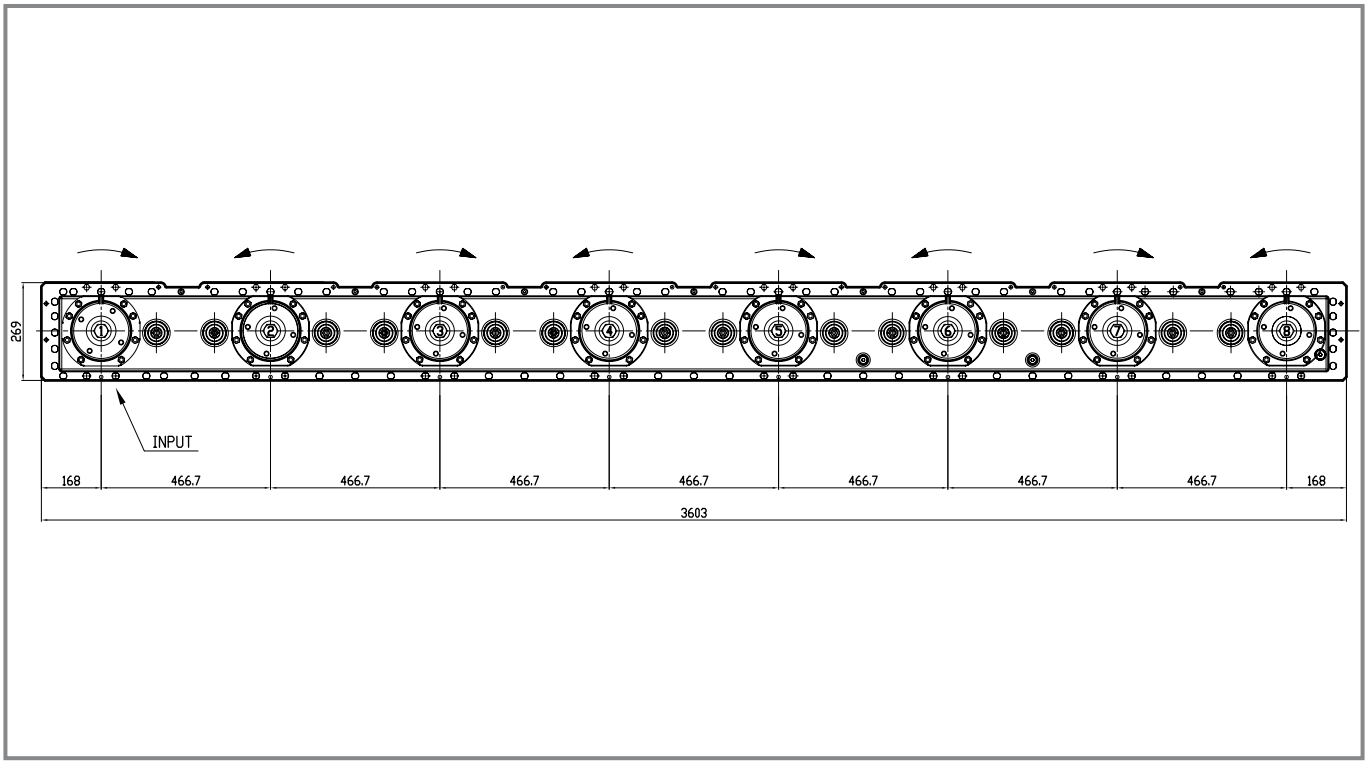
Code **588**

kg	[kg]	-

OIL	[l]	-

4.01





	Fam.	i	rpm	kW	HP	"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec
	FR-586	**1.00**	2500	**39.7**	*54.0*	6	3.3	-	-	125	std
—	**FR-588**	**1.00**		**53.0**	*72.0*	8	4.2	-	-	170	
	FR-580	**1.00**		**66.0**	*90.0*	10	5.1	-	-	223	

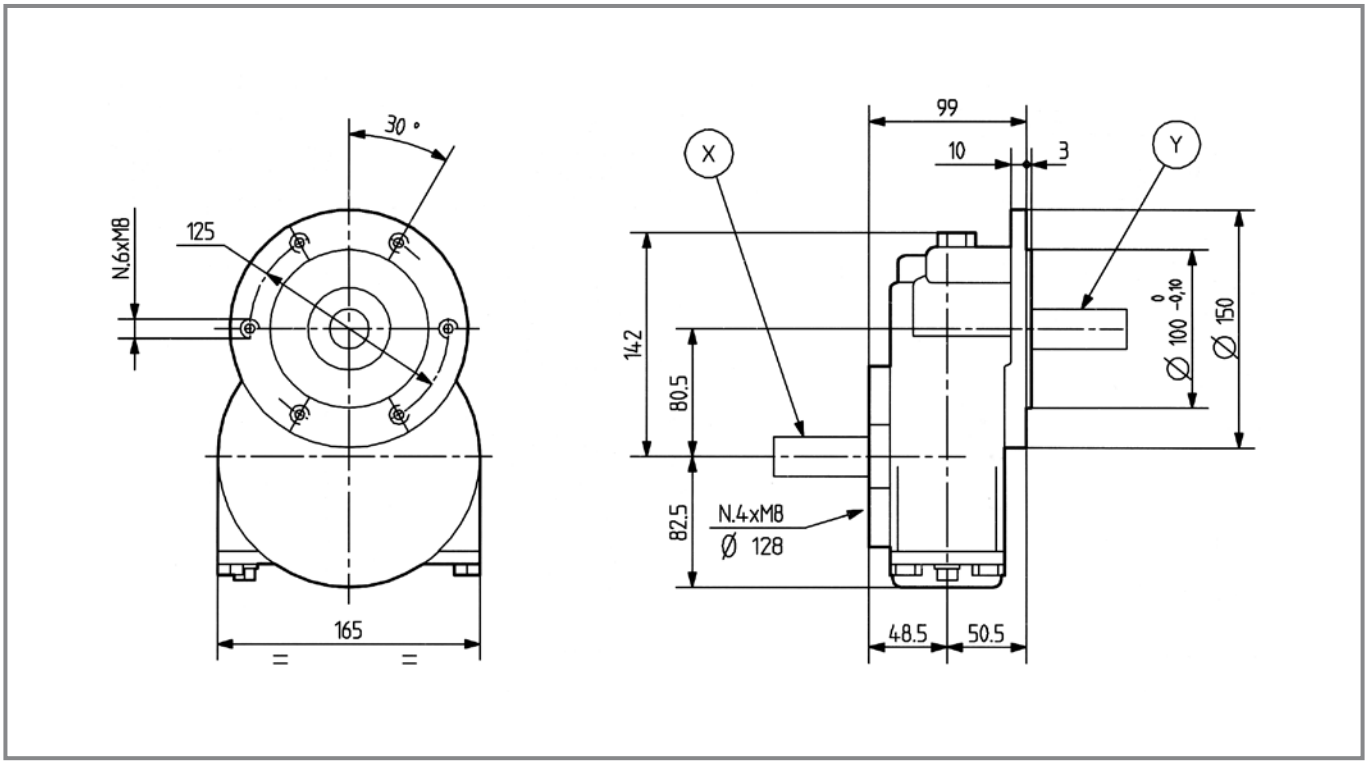
A-1A

0.00

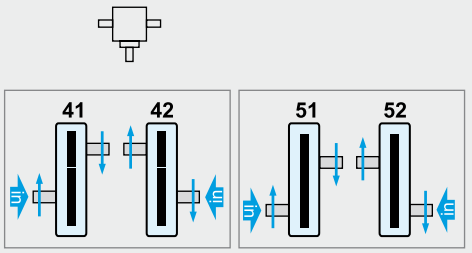
Code **600**

kg	[kg]	11

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**5.29**	540	11.8	*16.0*	25	*239*	std	X	41-42
M	**7.80**		-	-	-	-			
M	**8.27**		-	-	-	-			
R	**7.8**	540	3.7	*5.0*	491	*4552*	std	Y	51-52



comer industries
gearboxes

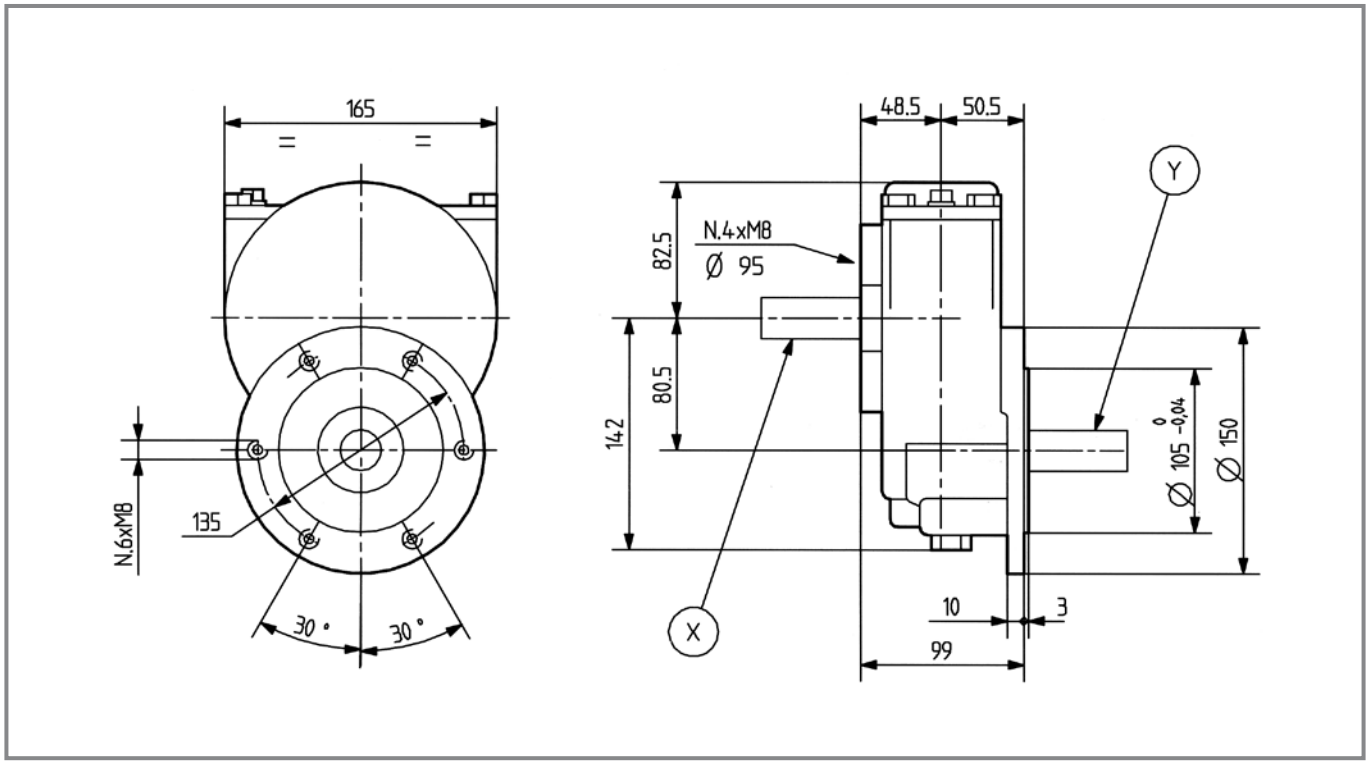
A-1B

5.01

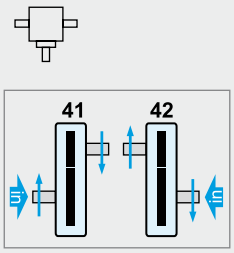
Code **600**

kg	[kg]	11

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M +	**7.00**	429	**9.6**	*13.0*	29	*273*	std	X	207-208



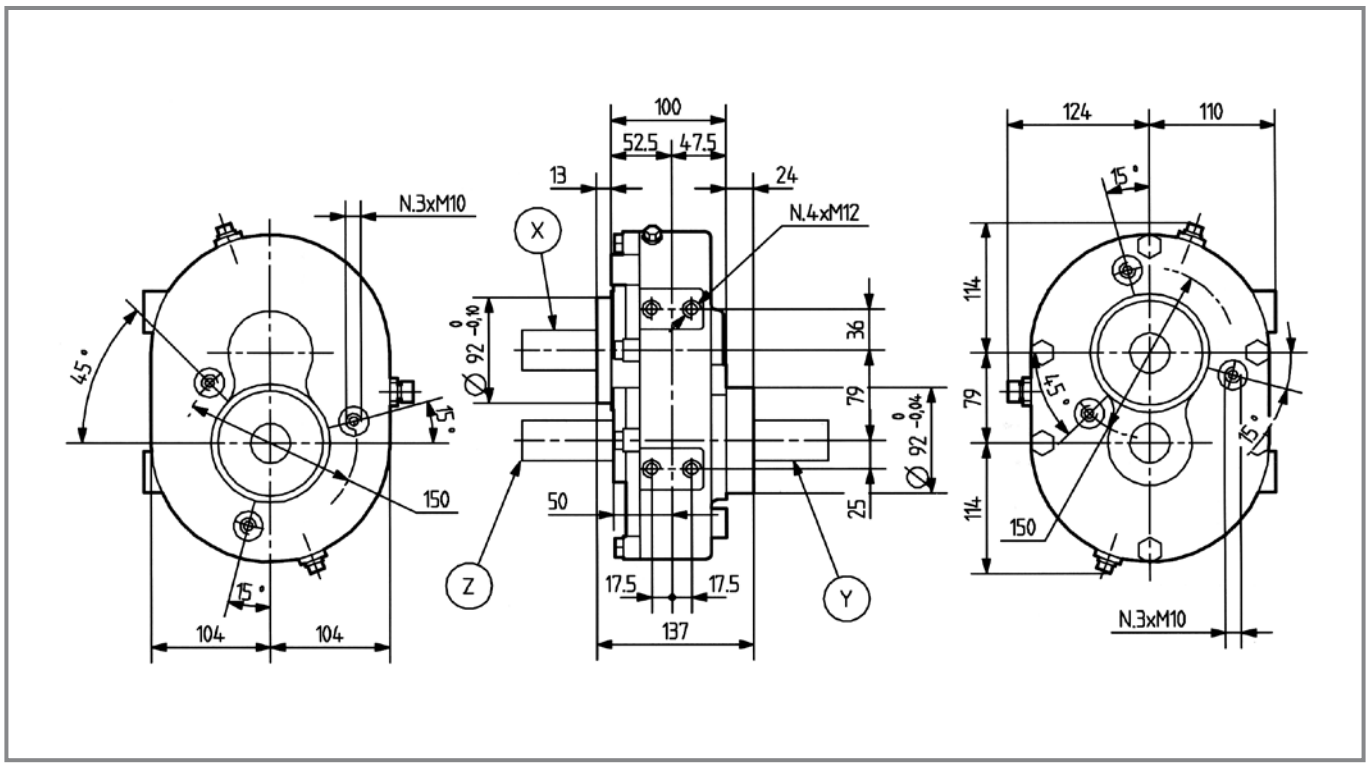
A-3A

0.00

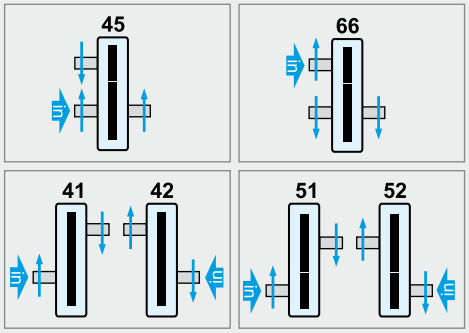
Code **602**

kg	[kg]	18

OIL	[l]	0.6



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	22.1	*30.0*	378	*3501*	std	Y	41-42 / 45 / 66
M	**1.23**	540	33.1	*45.0*	461	*4270*	std	Y	41-42
	1.50		30.9	*42.0*	353	*3268*			
	2.00		29.4	*40.0*	252	*2334*			
	2.92		27.2	*37.0*	159	*1479*			
	3.58		24.7	*33.5*	118	*1092*			
	5.00		22.1	*30.0*	75	*700*			
	5.90		16.9	*23.0*	49	*455*			
R	**1.23**	540	25.8	*35.0*	542	*5024*	std	X	51-52
	1.50		18.4	*21.0*	472	*4377*			
	2.00		15.5	*21.0*	529	*4902*			
	2.92		12.5	*17.0*	625	*5794*			
	3.58		9.6	*13.0*	586	*5432*			
	5.27		6.6	*9.0*	598	*5536*			



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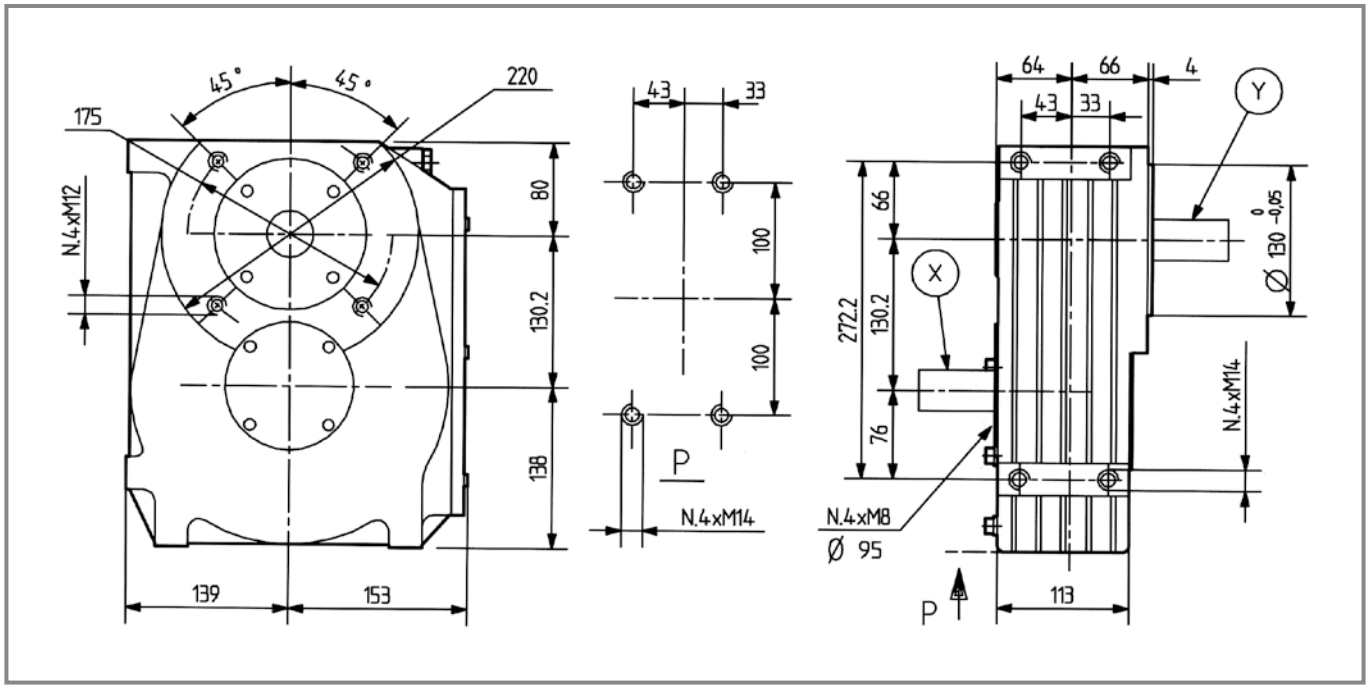
A-4A

Code **602**

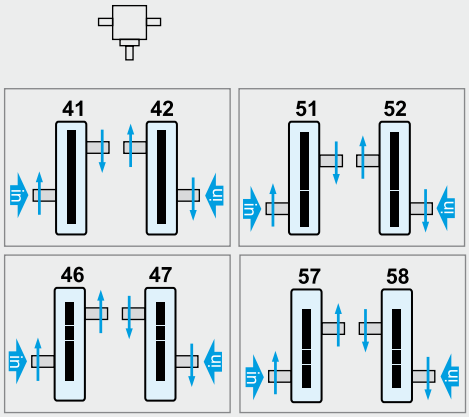
kg	[kg]	41

OIL	[l]	1.0

0.00



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
—	**1.00**	540	**62.6**	*85.0*	1071	*9921*	std	Y	51-52
	1.48		**66.2**	*90.0*	766	*7097*			
	2.00		**64.0**	*87.0*	548	*5077*			
	2.43		**62.6**	*85.0*	441	*4083*			41-42
	3.00		**59.6**	*81.0*	340	*3151*			
M	**3.80**	540	**58.1**	*79.0*	262	*2426*	std	X	
	4.00*		**56.7**	*77.0*	242	*2247*			46-47
	5.00		**55.2**	*75.0*	189	*1751*			
	6.20		**51.5**	*70.0*	142	*1318*			41-42
	7.00		**44.2**	*60.0*	108	*1000*			
	1.48		**42.7**	*58.0*	1082	*10019*			
	2.00		**31.6**	*43.0*	1084	*10037*			
	2.43		**25.8**	*35.0*	1072	*9926*			51-52
	3.00		**21.0**	*28.5*	1078	*9979*			
R	**3.80**	540	**16.6**	*22.5*	1078	*9979*	std	Y	
	4.00*		**15.8**	*21.5*	1084	*10037*			57-58
	5.00		**12.5**	*17.0*	1071	*9921*			
	6.20		**10.3**	*14.0*	1094	*10131*			51-52
	7.00		**8.8**	*12.0*	1059	*9804*			



* versione A-4B / *A-4B version*

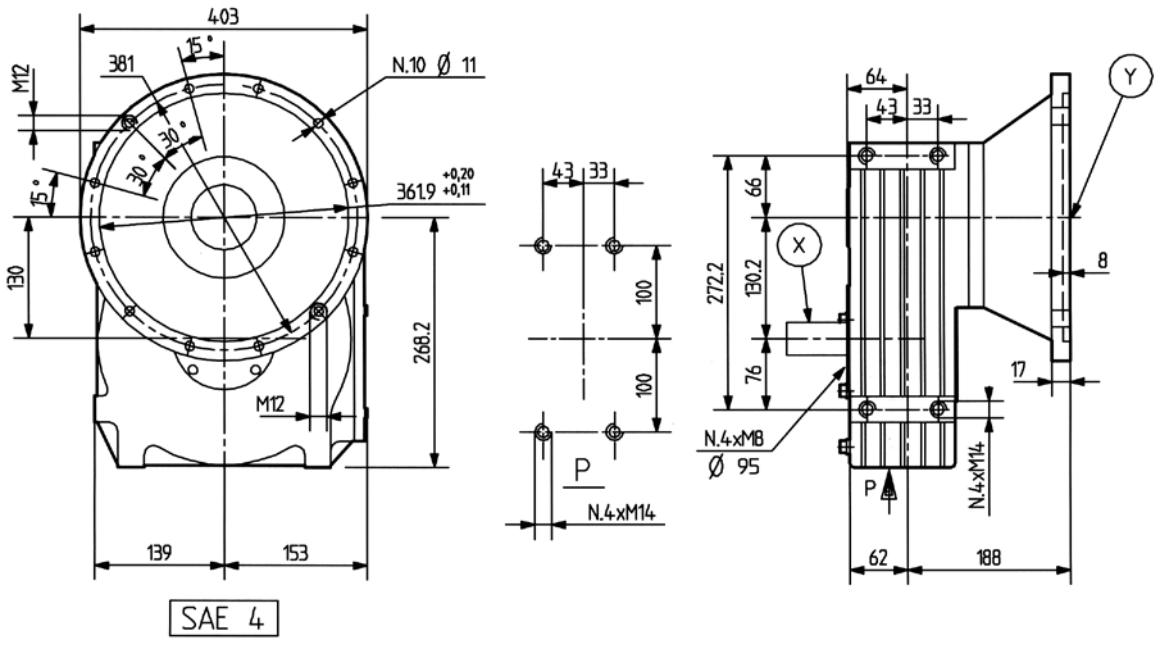
A-4F

Code **603**

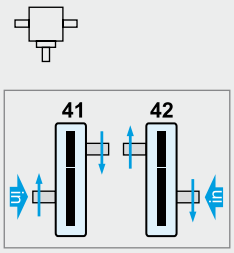
kg	[kg]	47

OIL	[l]	1.0

5.01



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**3.80**	395	**55.0**	*75.0*	340	*3150*	std	X	41-42



comer industries
gearboxes

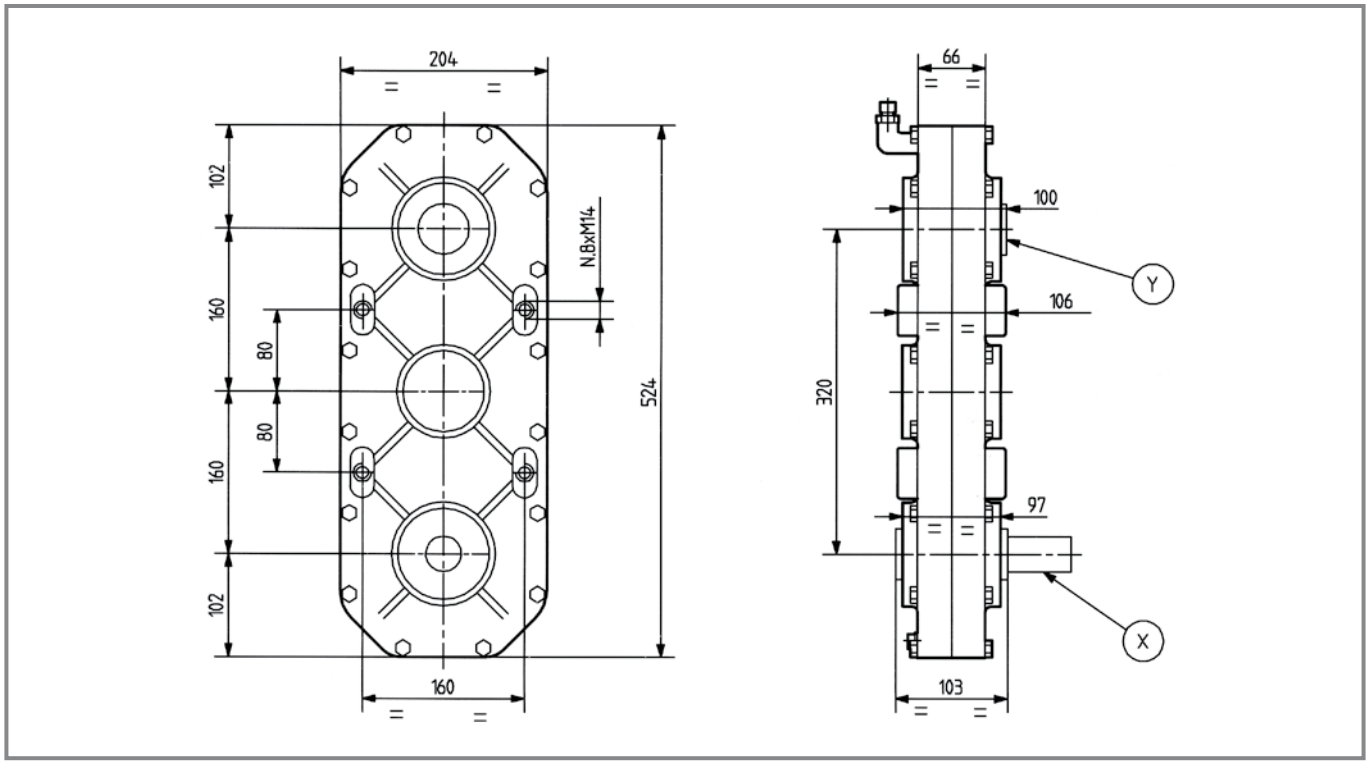
A-16A

0.00

Code **615**

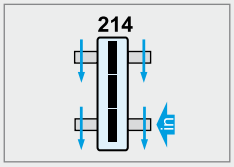
kg	[kg]	40

OIL	[l]	1.5



i	rpm	kW	HP	Nm	lb.in.	std spec	Input
1.00	540	62.6	*85.0*	1071	*9921*	std	X

214



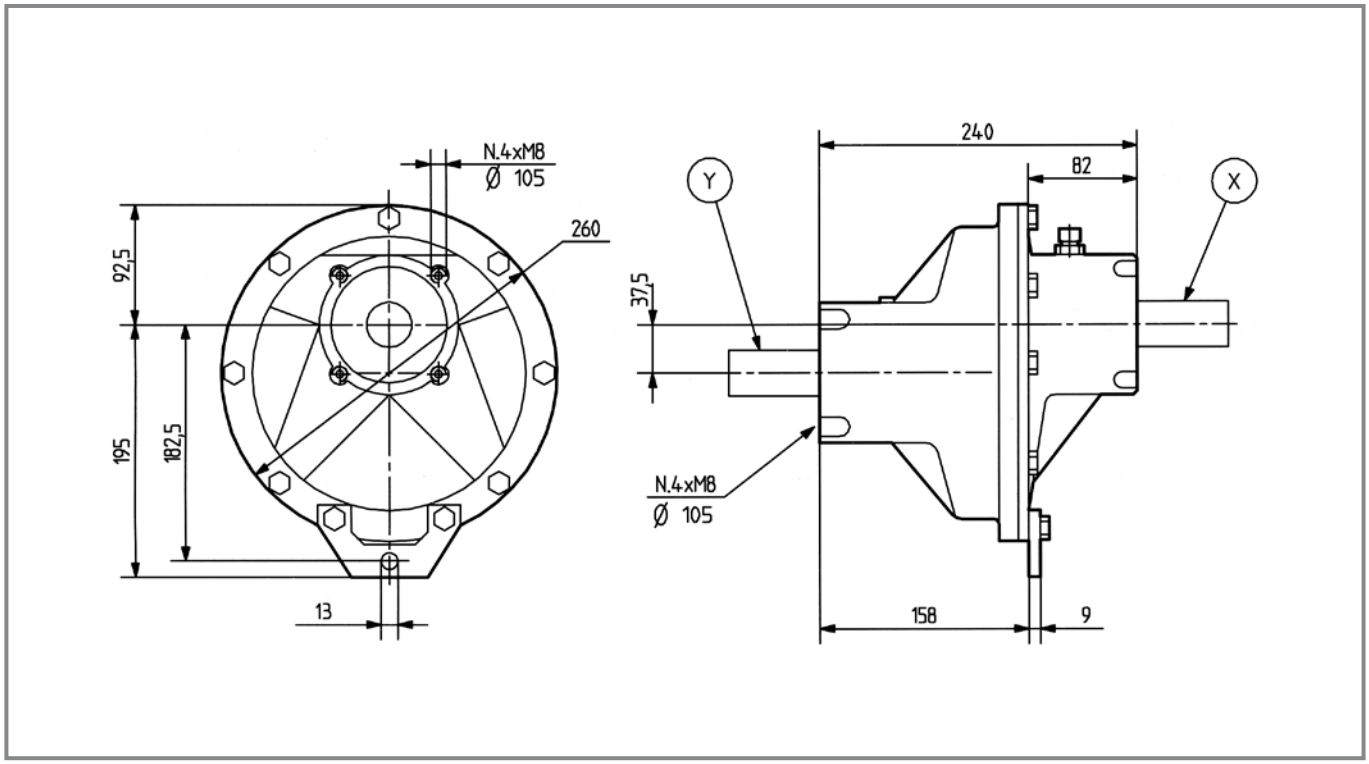
A-20A

0.00

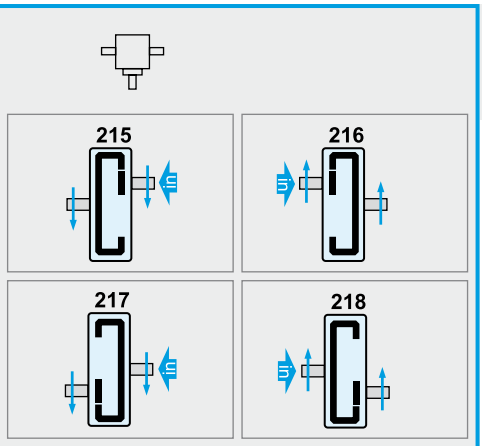
Code **620**

kg	[kg]	26

OIL	[l]	1.4



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**1.88**	540	**55.2**	*75.0*	503	*4656*	std	Y	217-218
R	**1.88**	1000	**55.2**	*75.0*	960	*8887*	std	X	215-216



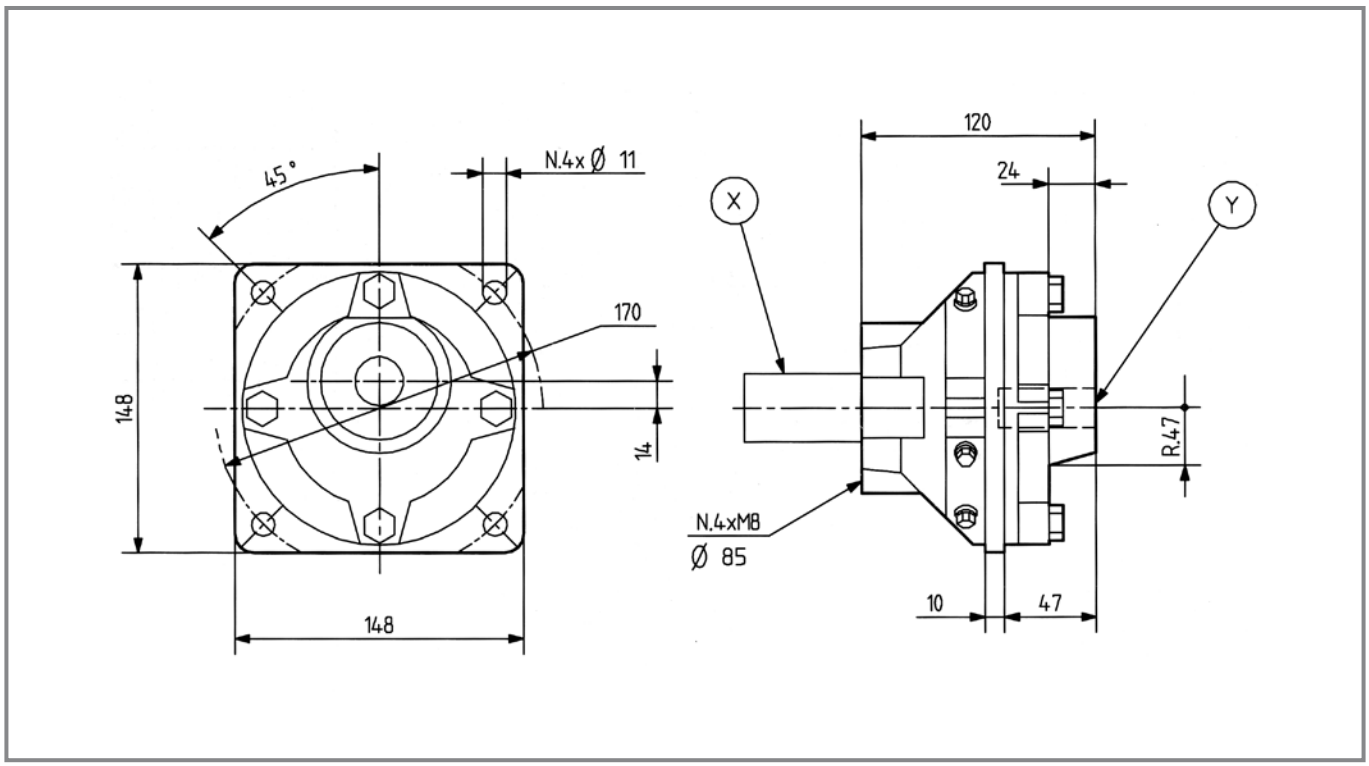
comer industries
gearboxes

A-623A

0.00

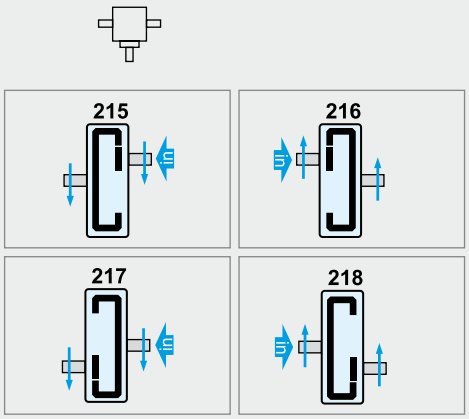
kg	[kg]	6

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	1.60	540	11.0	15.0	118	1094	std	Y
R	1.60	540	7.4	10.0	201	1867	std	X

217-218
215-216

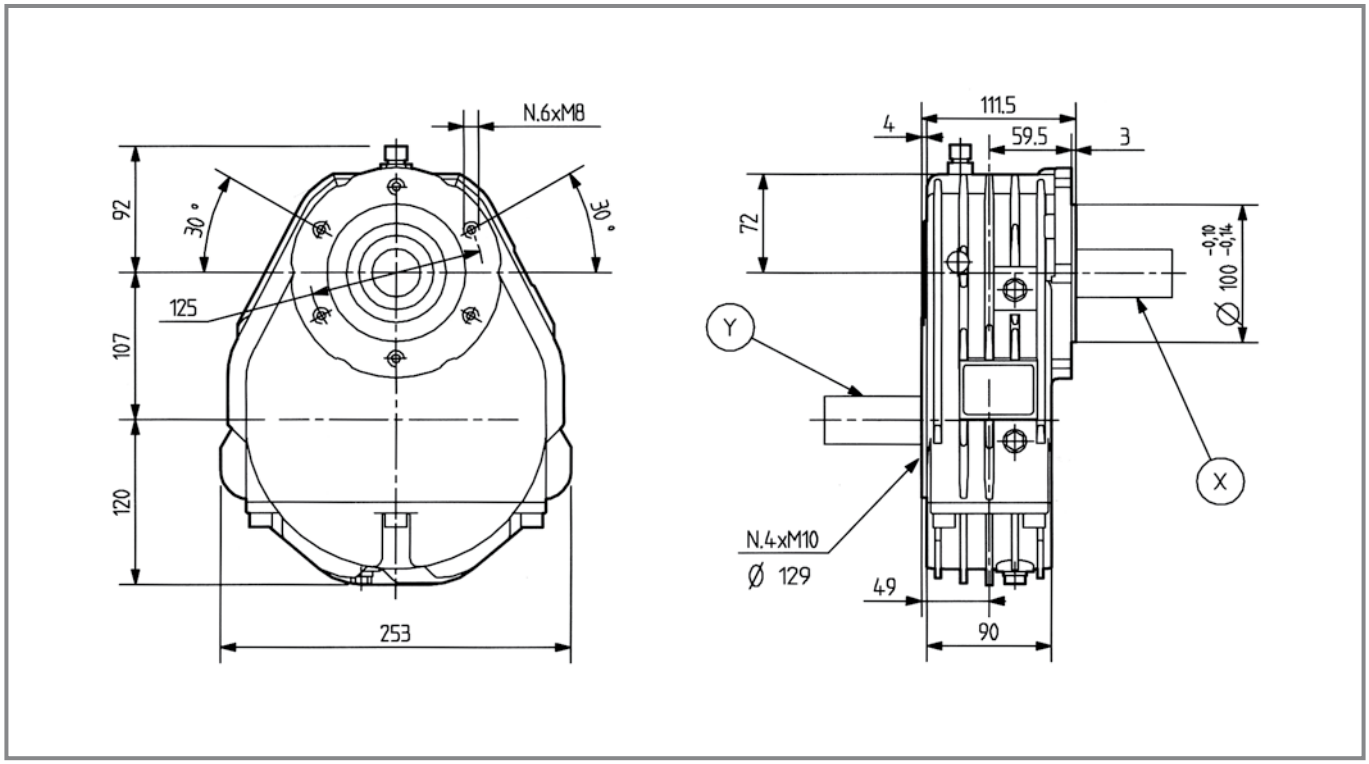


A-624A

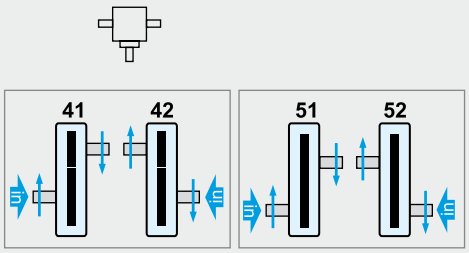
0.00

kg	[kg]	17

OIL	[l]	0.45



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**3.50**	540	31.6	*43.0*	154	*1434*	std	Y	41-42
	6.90		25.8	*35.0*	63	*592*			
R	**3.50**	540	13.2	*18.0*	794	*7353*	std	X	51-52
	6.90		7.4	*10.0*	870	*8053*			



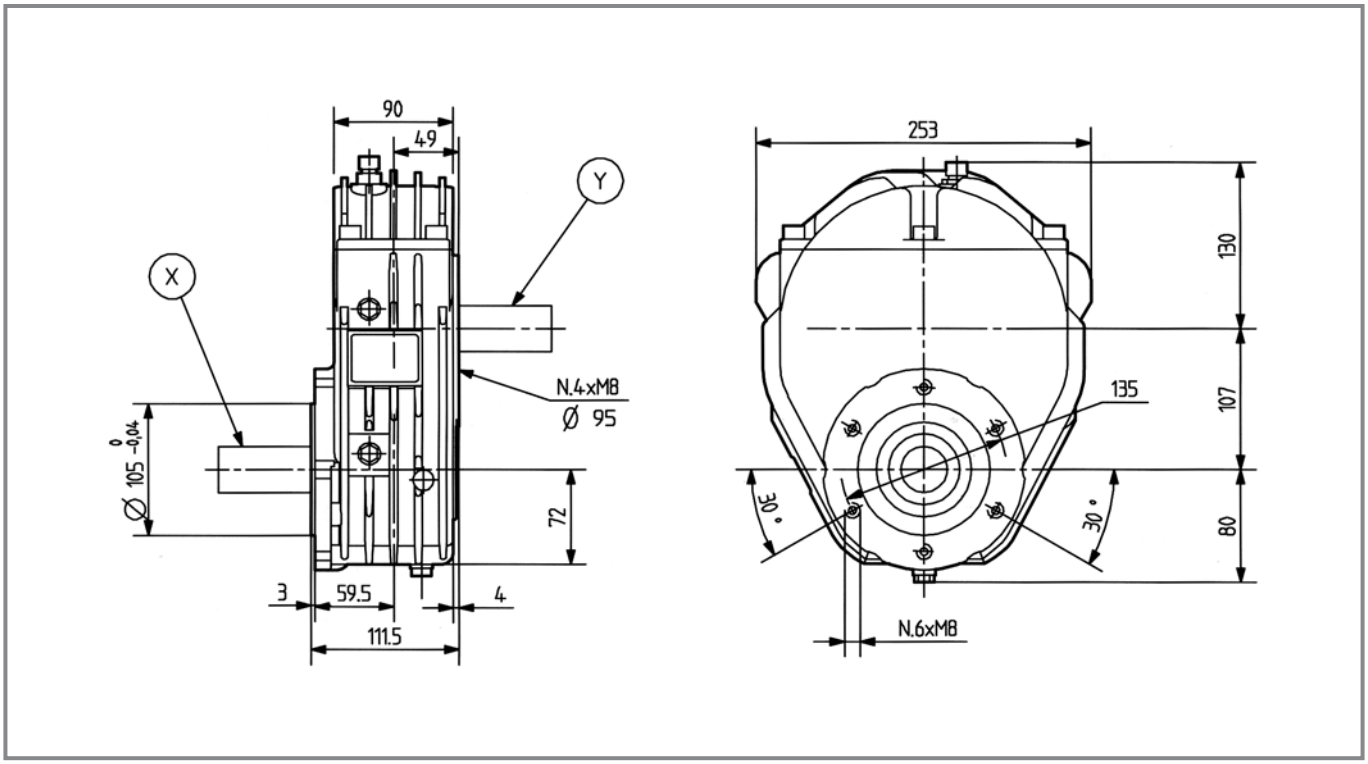
comer industries
gearboxes

A-624B

0.00 5.01

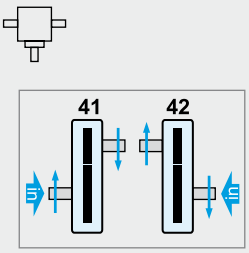
kg	[kg]	17

OIL	[l]	0.45



M	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
	3.50	429	**30.0**	*41.0*	185	*1750*	std	Y
	6.90	435	**22.0**	*30.0*	68	*641*		

207-208

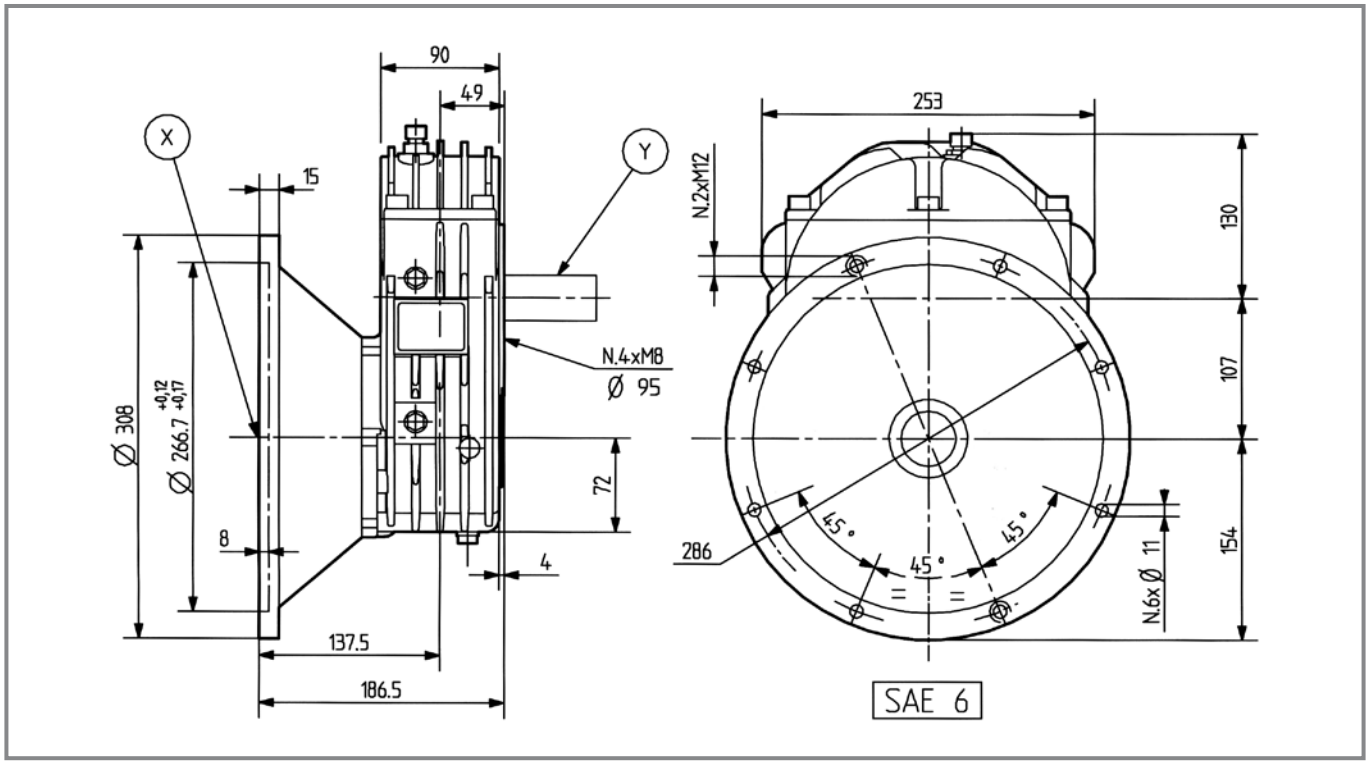


A-624C

5.01

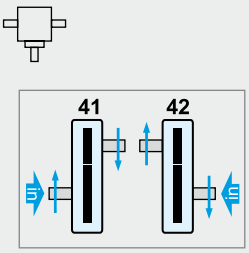
kg	[kg]	22

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**3.50**	429	**30.0**	*41.0*	185	*1750*	std	Y
	6.90	435	**22.0**	*30.0*	68	*641*		

207-208



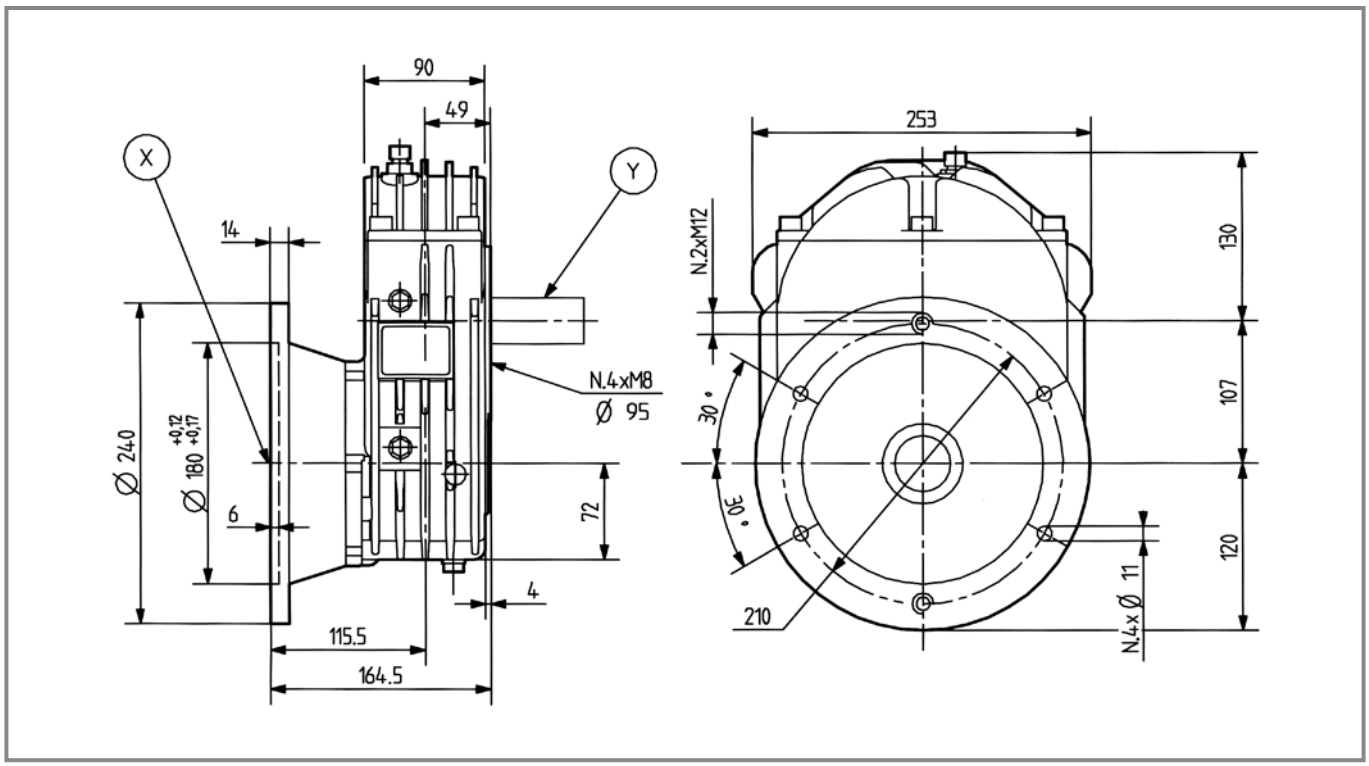
comer industries
gearboxes

A-624E

5.01

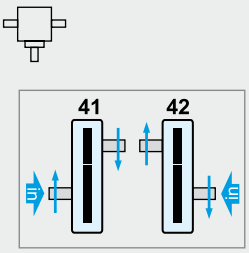
kg	[kg]	20

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**3.50**	429	**30.0**	*41.0*	185	*1750*	std	Y
	6.90	435	**22.0**	*30.0*	68	*641*		

207-208

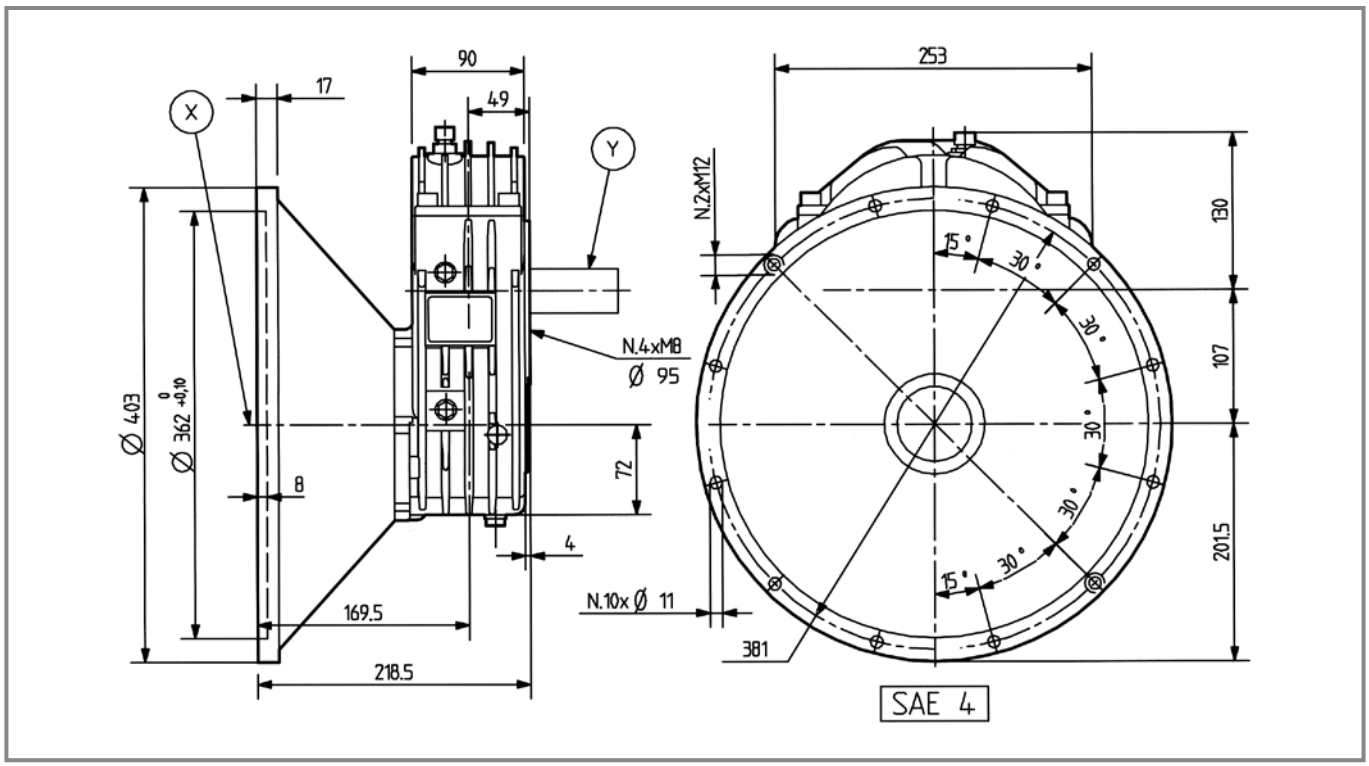


A-624F

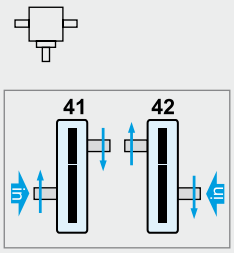
5.01

kg	[kg]	26

OIL	[l]	0.5



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**3.50**	429	**30.0**	*41.0*	186	*1721*	std	Y	207-208



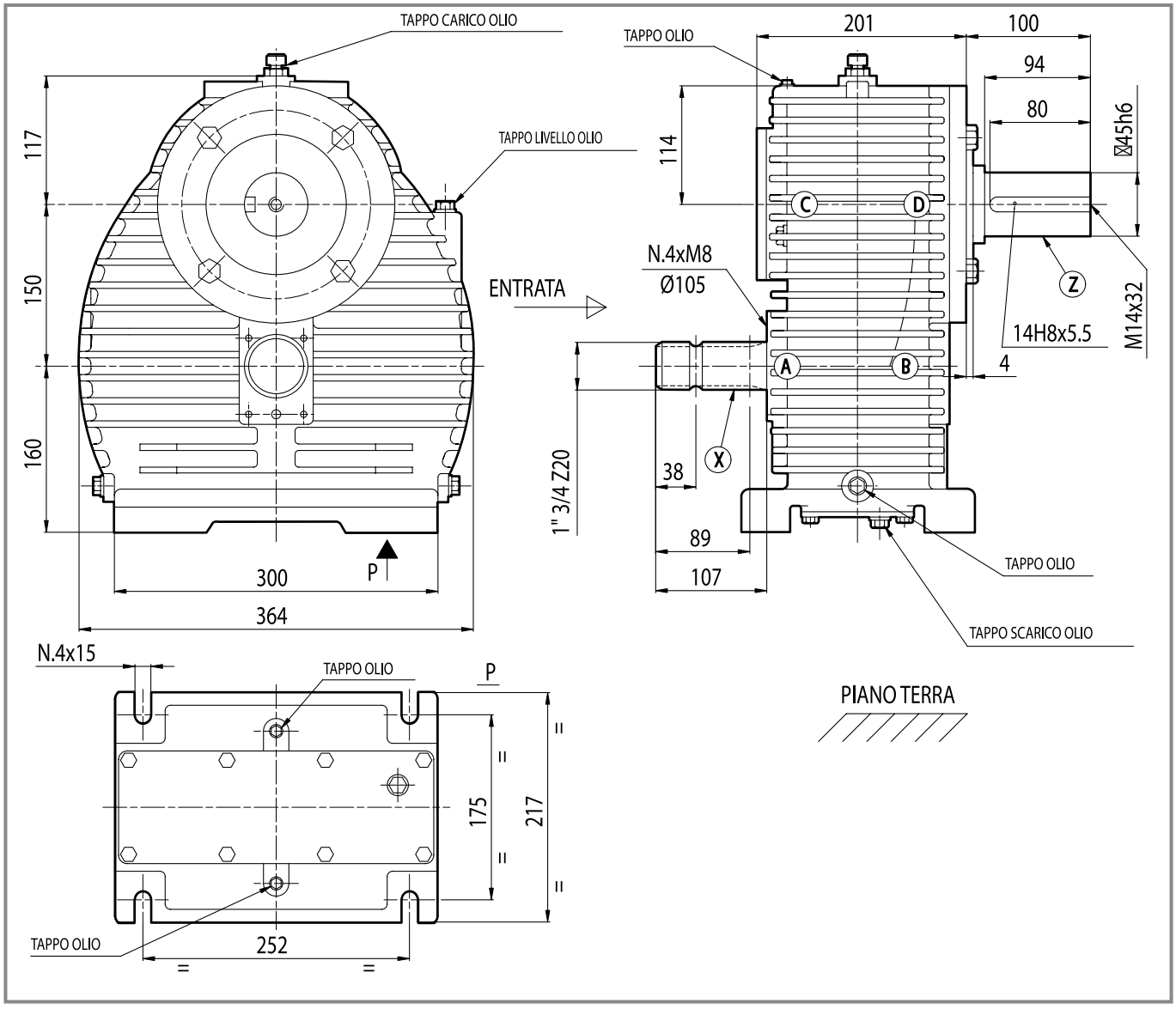
comer industries
gearboxes

A-629A

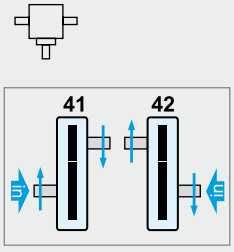
0.00

kg	[kg]	72

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	3.80	540	110.0	150	-	-	-	X	41-42

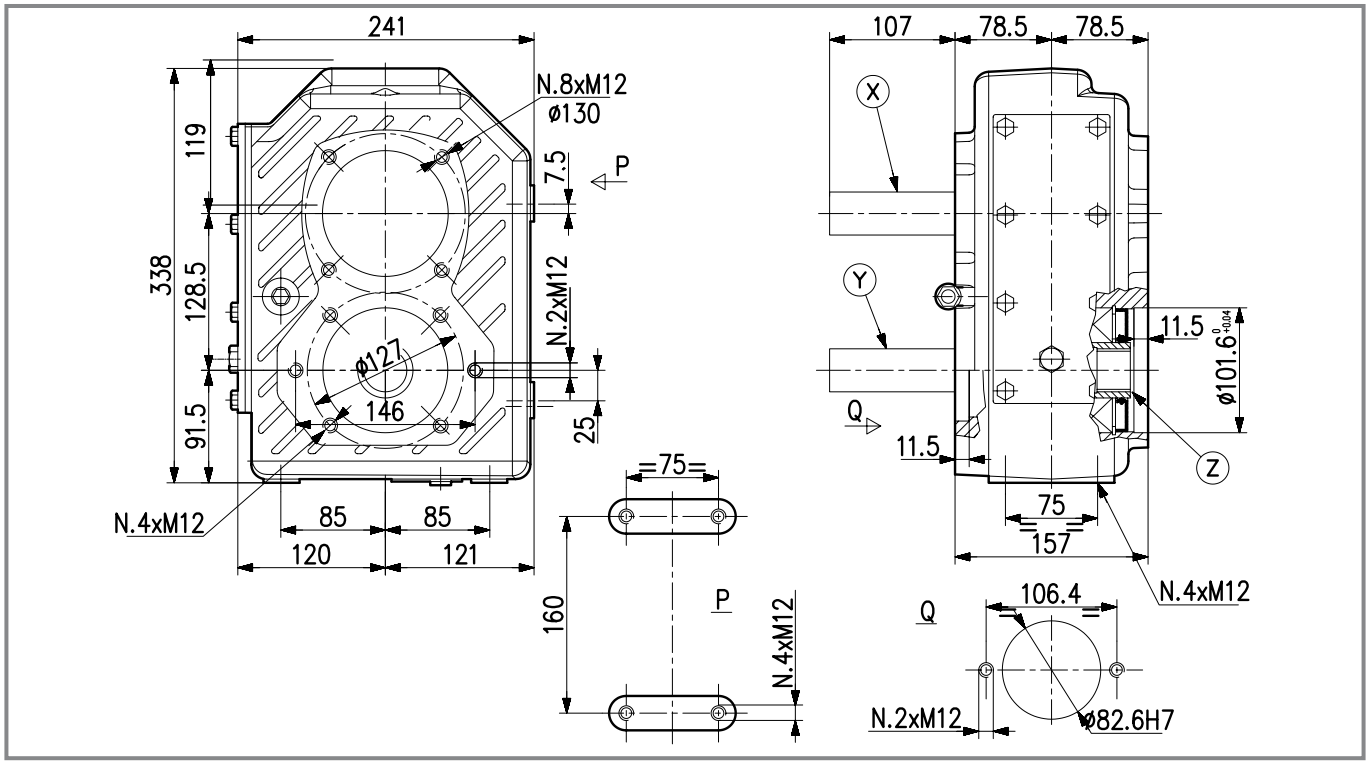


A-640A

1.05

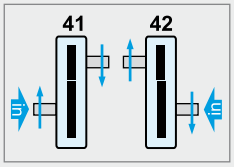
kg	[kg]	42.5

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	1.90	1000	91.9	125	-	-	std	X
	2.15		84.5	115	-	-		
	2.50		80.1	110	-	-		
	3.80		55.9	76.0	-	-		

41-42



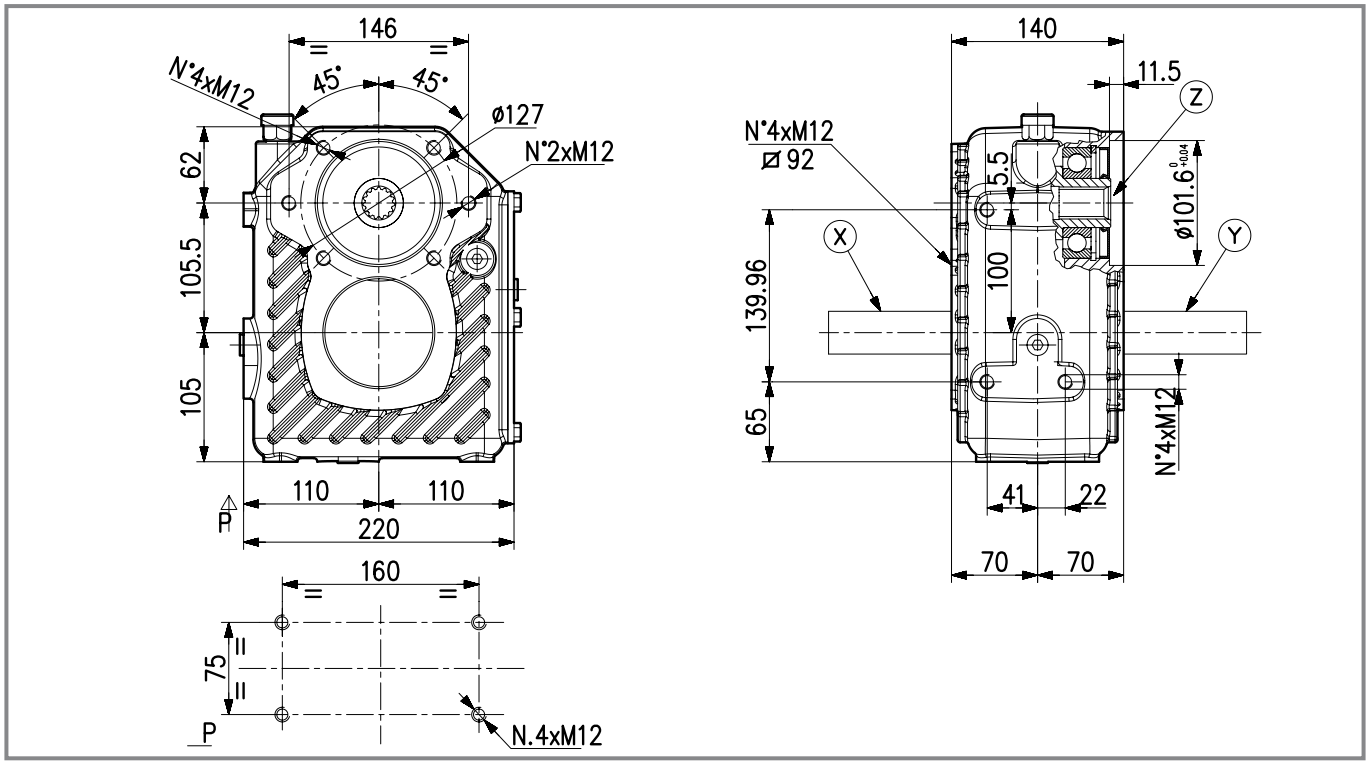
comer industries
gearboxes

A-649A

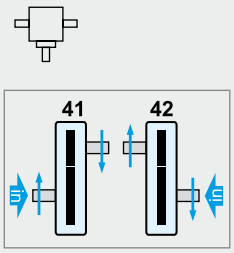
1.05

kg	[kg]	25

OIL	[l]	-

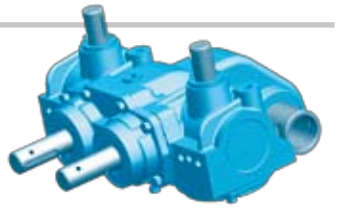


	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.85	540	44.0	60.0	-	-	std	X-Y	41-42
	2.00				-	-			
	2.50				-	-			
	3.00				-	-			
	3.80				-	-			
	4.23		40.5	55.0	-	-			

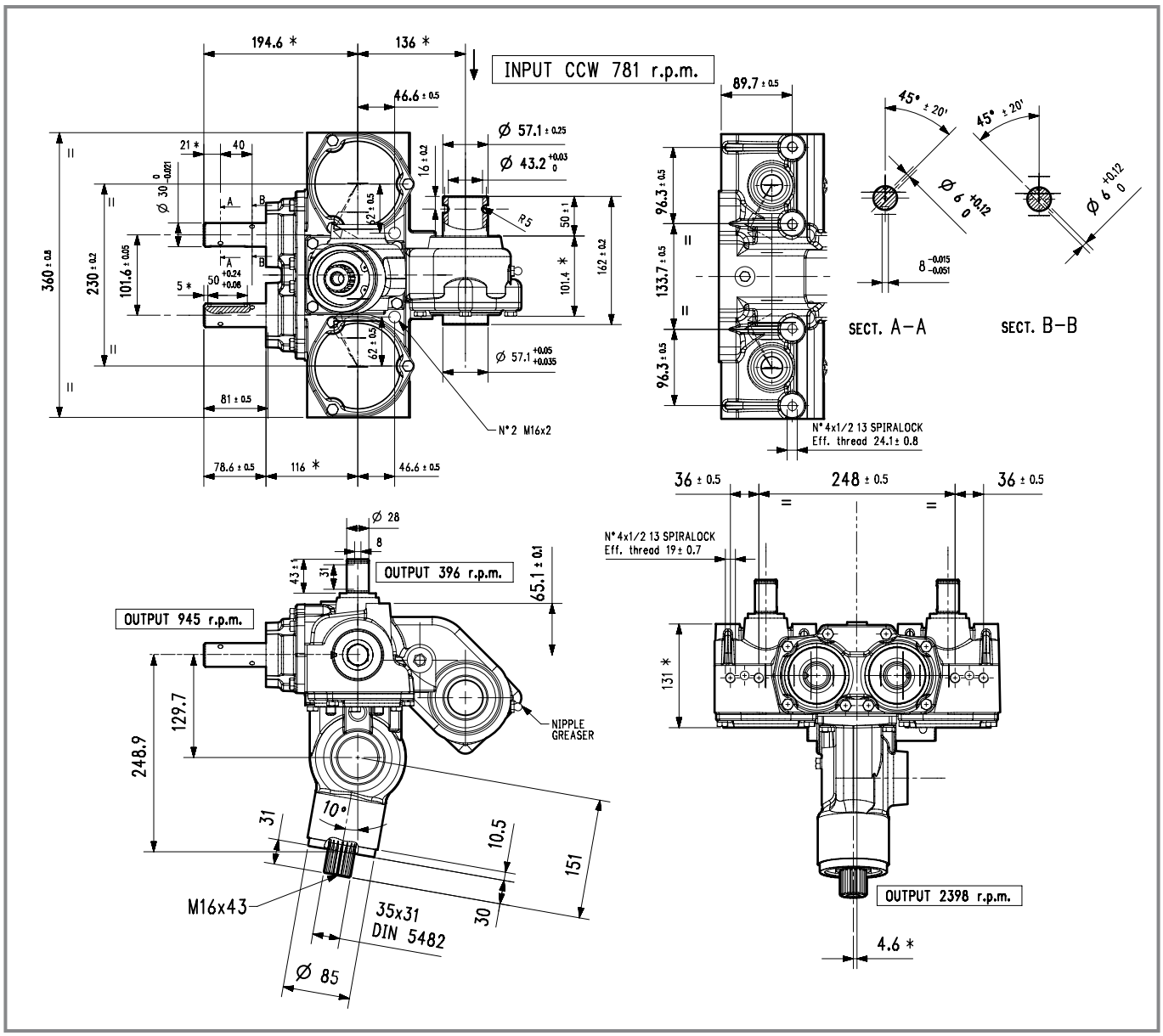


N-669A

4.08



kg	[kg]	-	OIL	[l]	-

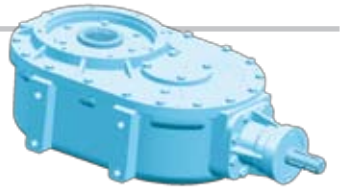


i	rpm	kW	HP	Nm	lb.in.	std spec	Input
	781	11.7	16.0			std	

comer industries gearboxes

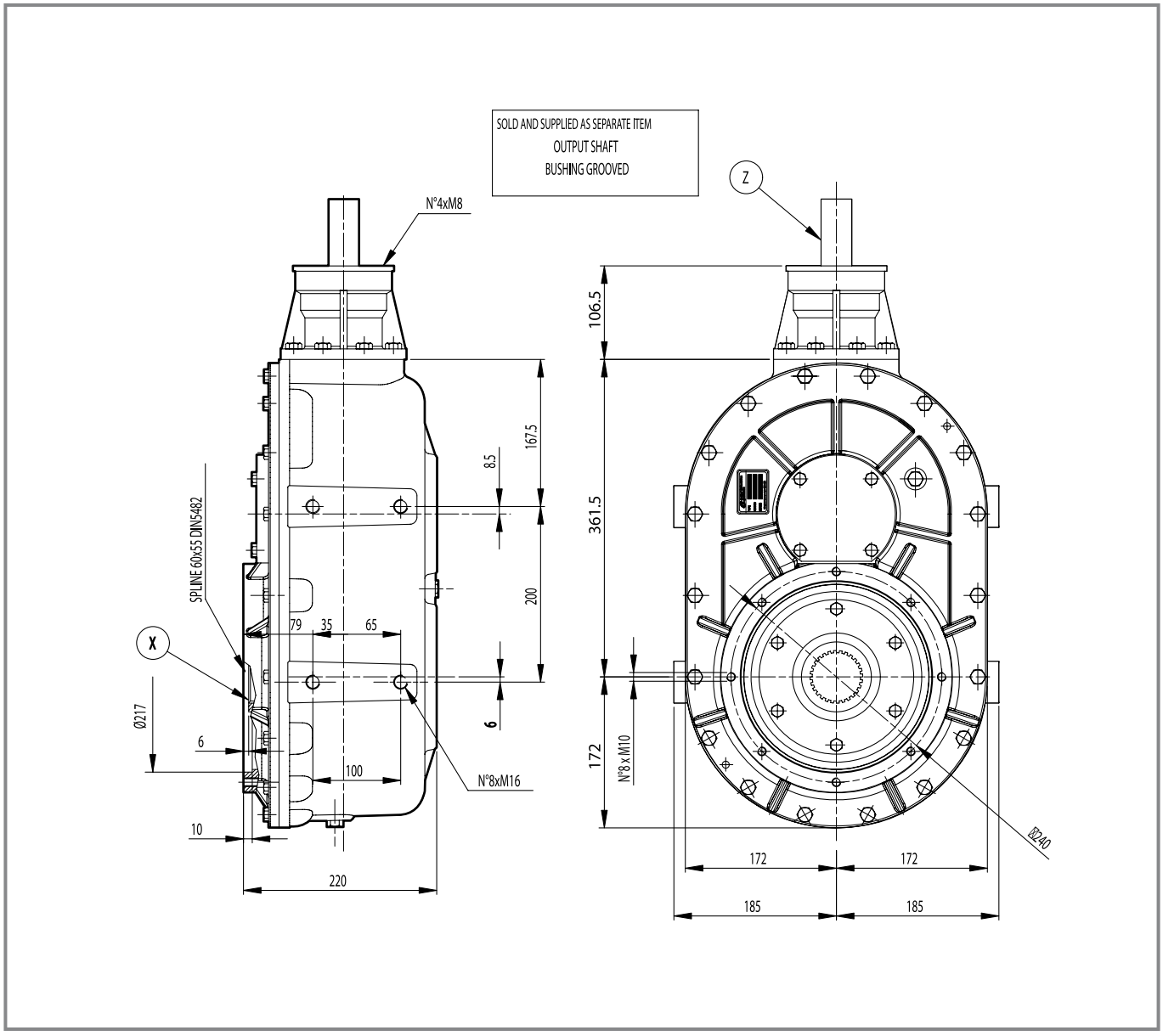
N-673J

0.00

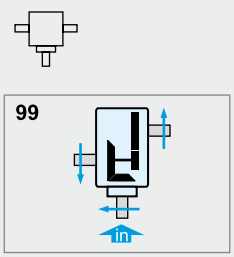


kg	[kg]	110

OIL	[l]	1.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	10.8	540	55.1	75.0	1022	90508	std	Z	99
	15.0		33.0	45.0	895	79261			

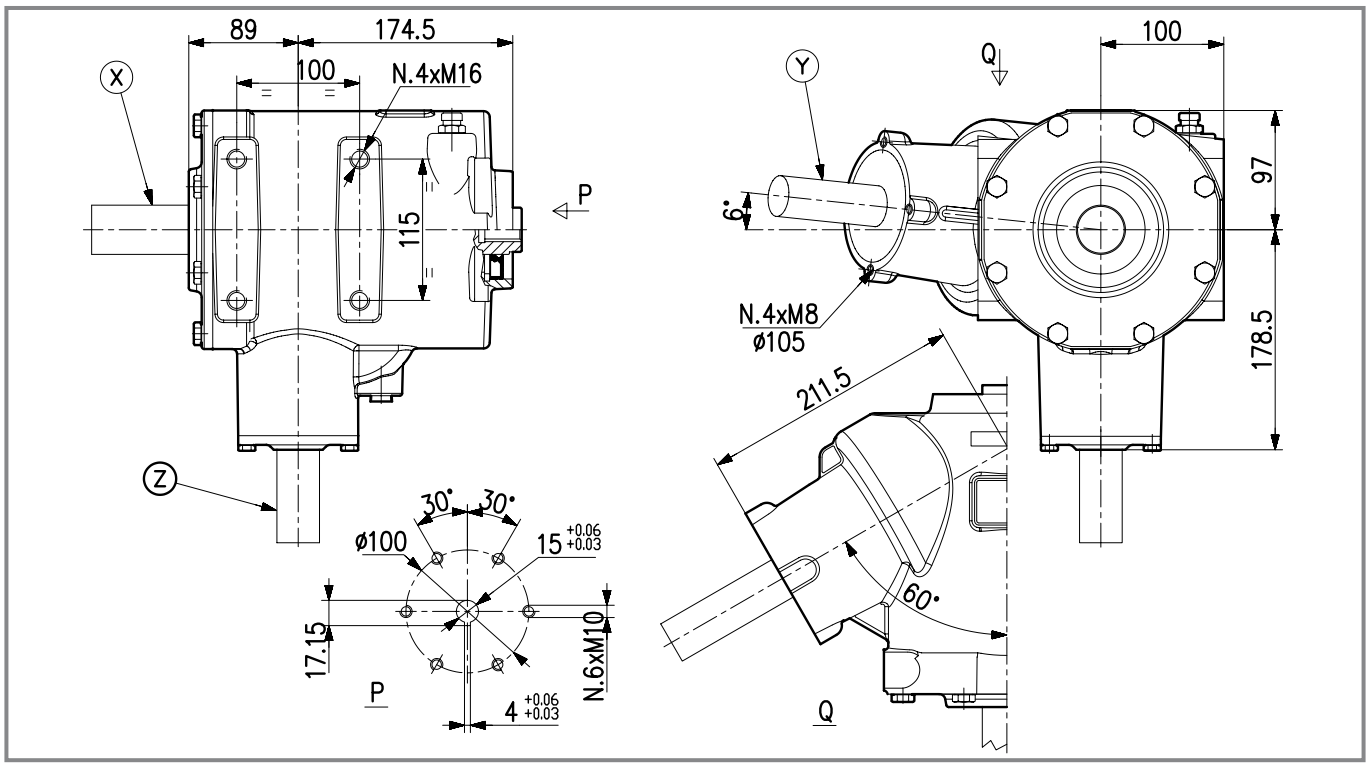


NV-676A

4.01

kg	[kg]	38

OIL	[l]	-



i	rpm	kW	HP	Nm	lb.in.	std spec	Input
	430	60.0	82.0	-	-	spec	Y

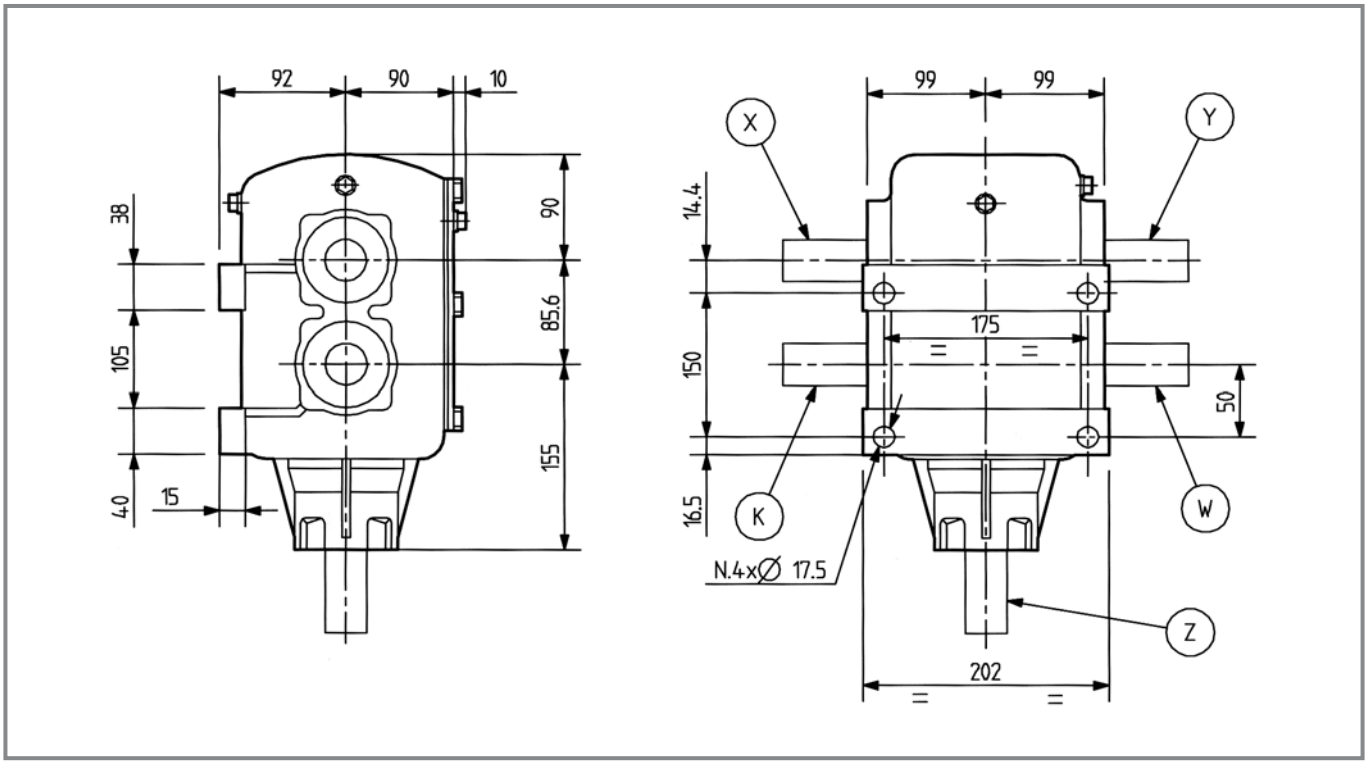
comer industries
gearboxes

T-698A/B

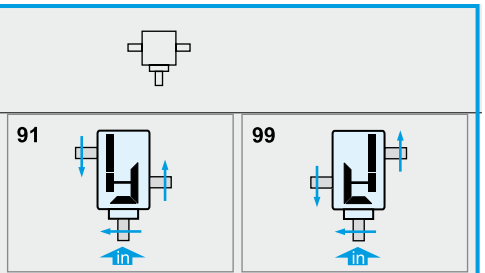
1.04

kg	[kg]	28

OIL	[l]	1.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**1.00** (Z-W / Z-K)	540	**40.4**	*55.0*	-	-	std	Z	91-99
	5.70 (Z-X / Z-Y)				-	-			
	1.46 (Z-W)	540	**29.4**	*40.0*	-	-	std	Z	91-99
	5.50 (Z-X)				-	-			



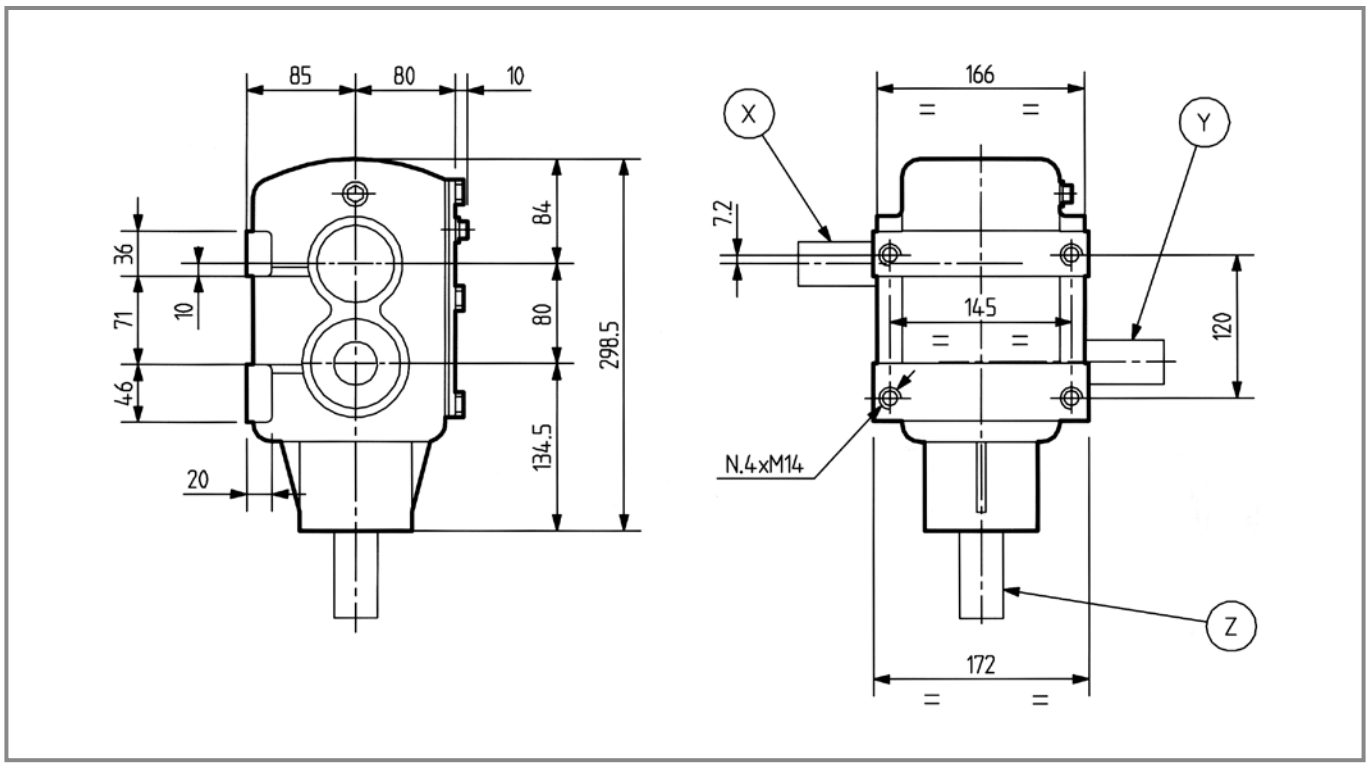
N-2A

1.04

Code **699**

kg	[kg]	19

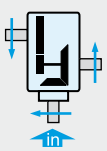
OIL	[l]	1.4



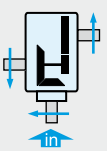
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**1.00** (Z-Y)	540	**23.5**	*32.0*	-	-	std	Z
	5.67 (Z-X)				-	-		

91-99

91



99



comer industries
gearboxes

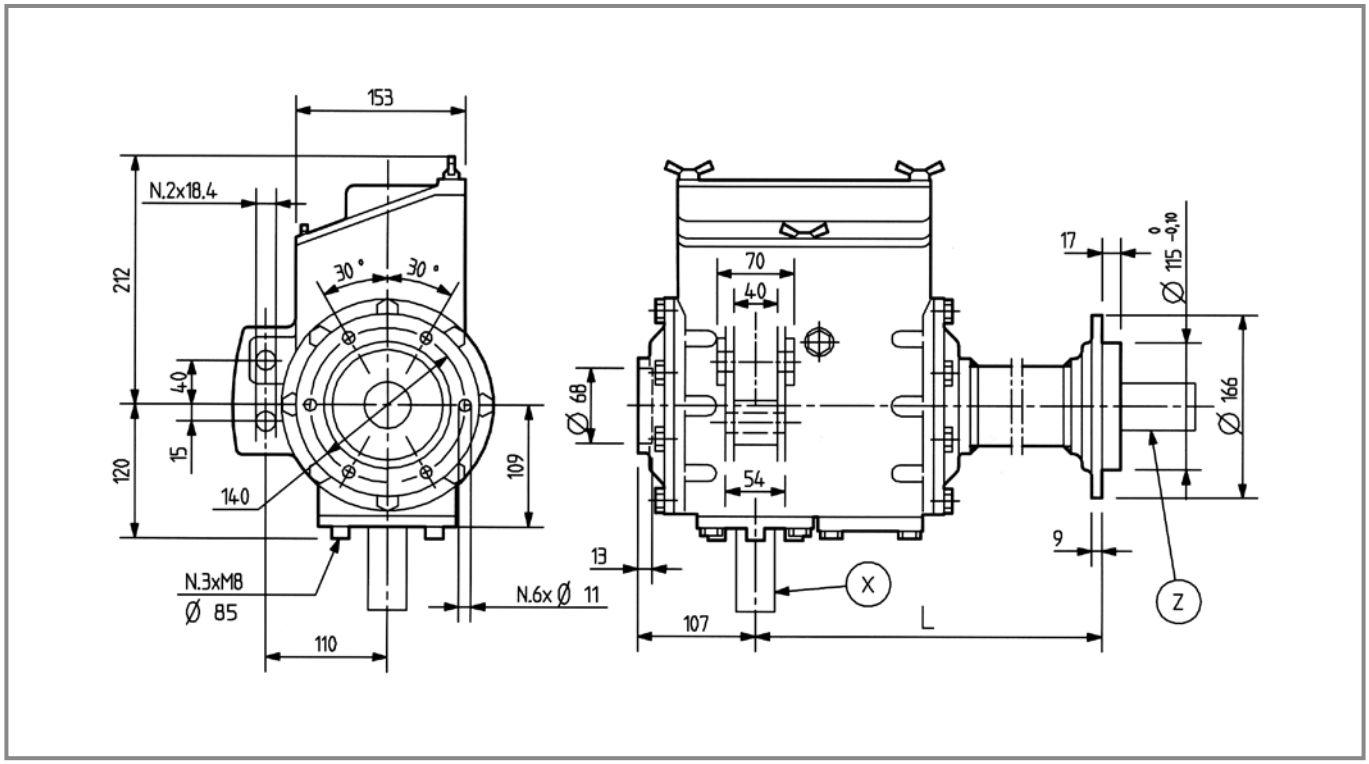
MZ-1A

2.01

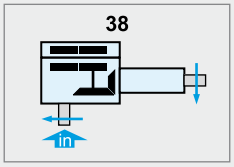
Code **701**

kg	[kg]	-

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code	
R	**1.55** **1.72** **2.14** **2.37**	540	**29.4**	*40*	-	-	std	X	500	701.027	38
					-	-			600	701.028	
					-	-			700	701.000	
					-	-			800	701.030	
					-	-			900	701.026	



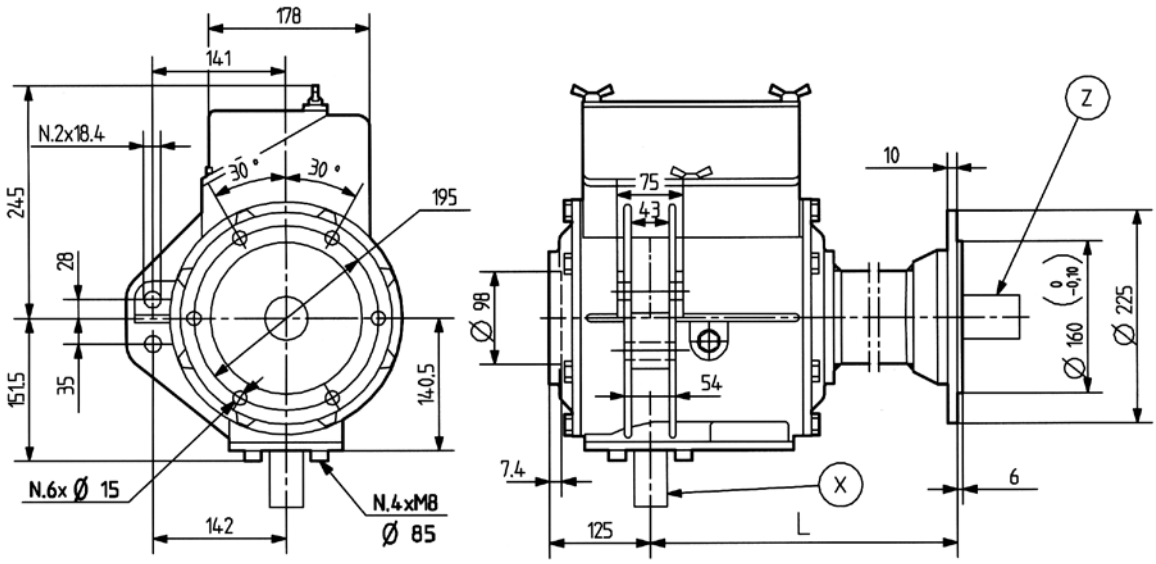
MZ-2A

Code **702**

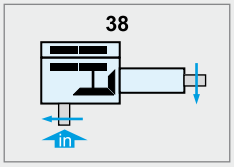
kg	[kg]	-

OIL	[l]	-

2.01



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code	
R	1.62 1.87 2.29 2.64	540	51.5	70	-	-	std	X	800	702.048	38
					-	-			900	702.001	
					-	-			1000	702.049	
					-	-			1100	702.051	
					-	-			1250	702.053	



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gearboxes

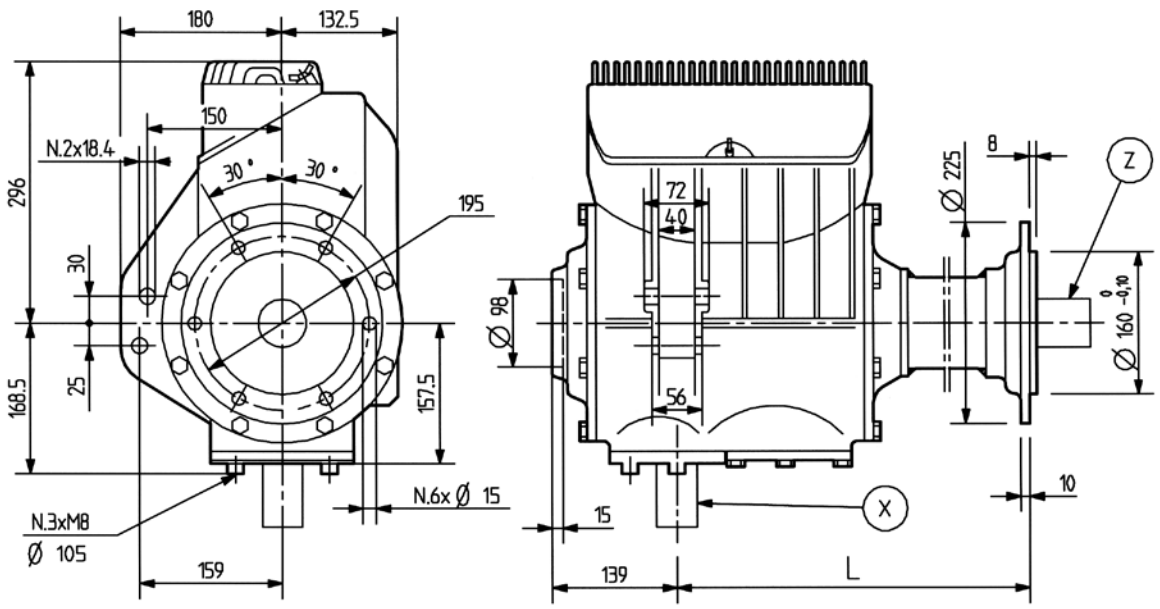
MZ-3A

Code **703**

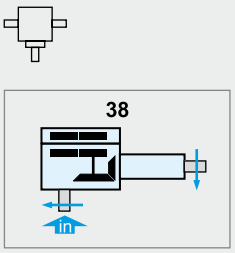
kg	[kg]	-

OIL	[l]	-

2.01



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code	
R	**1.57 1.74**	540	**80.9**	*110*	-	-	std	X	1100	703.000	38
					-	-			1150	703.042	
					-	-			1250	703.044	
					-	-			1350	703.047	
					-	-			1500	703.048	
	2.96 3.30	1000	**80.9**	*110*	-	-	std	X	1100	703.036	38
					-	-			1150	703.037	
					-	-			1250	703.039	
					-	-			1350	703.045	
					-	-			1500	703.046	



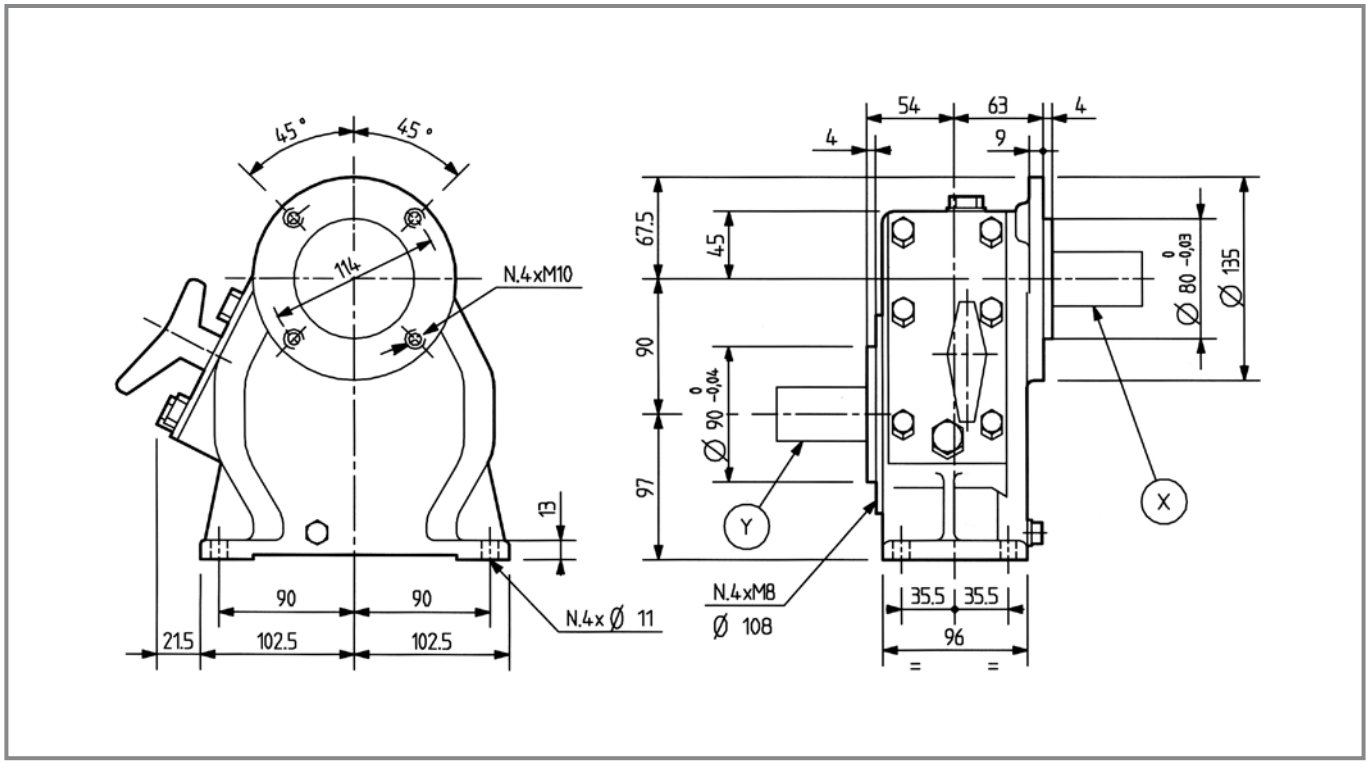
D-7A

3.01

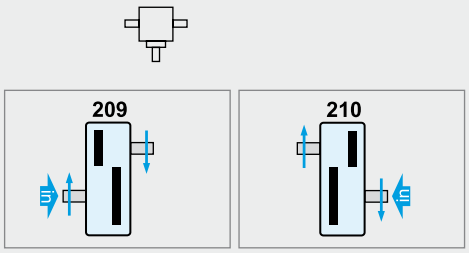
Code **707**

kg	[kg]	17

OIL	[l]	0.9



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**2,57**	-	-	-	-	-	spec		-
	4.00	540	**21.7**	*29.5*	93	*861*	std	Y	209 - 210
	4.36		**21.3**	*29.0*	83	*776*			
	5.25		**20.6**	*28.0*	67	*622*			
	5,82	-	-	-	-	-	spec		-
	7,33	-	-	-	-	-			-



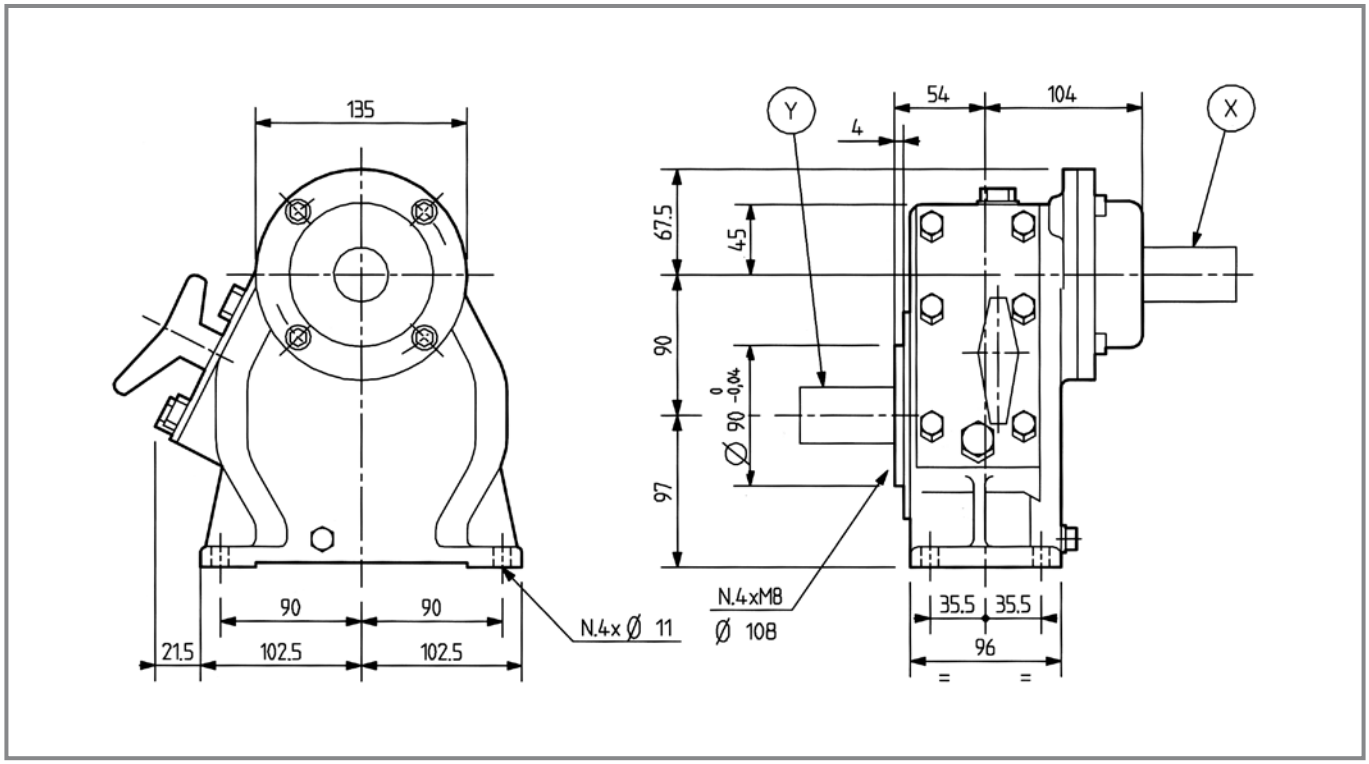
D-7B

3.01

Code **707**

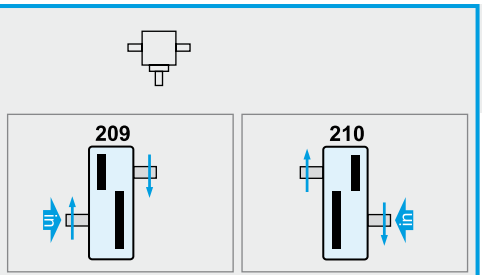
kg	[kg]	18

OIL	[l]	1.0



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**4.00**	540	**21.7**	*29.5*	93	*861*	std	Y
	5.25		**20.6**	*28.0*	67	*622*		

209 - 210



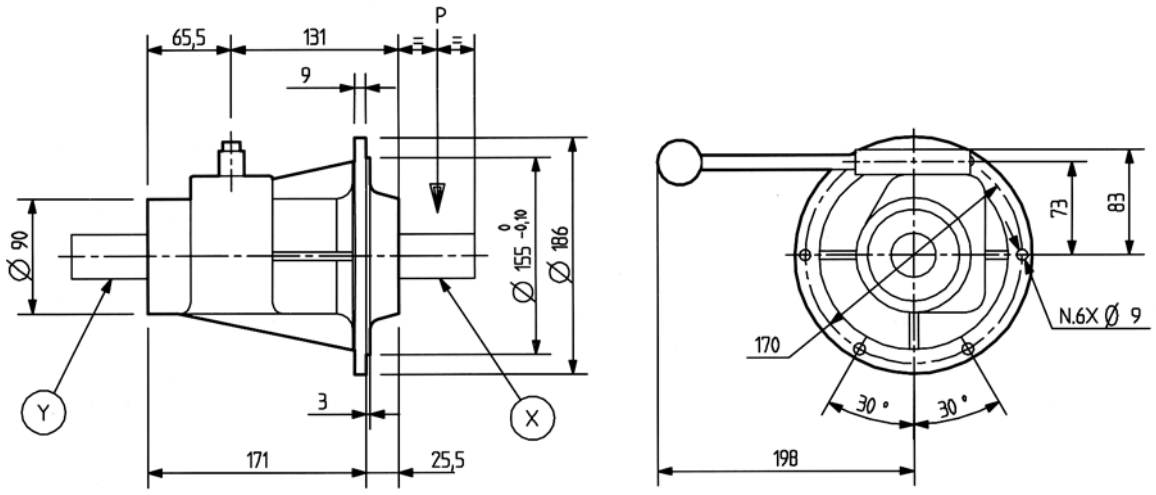
D-16

0.00

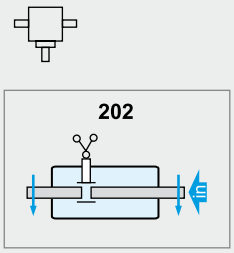
Code **716**

kg	[kg]	9.5

OIL	[l]	0.25



P (kg)	Nm	lb.in.	std spec	Input	
250	200	*1736*	std	X	202



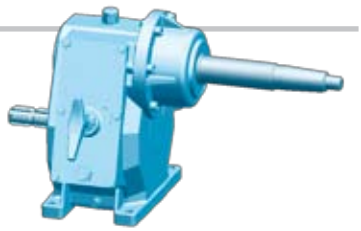
comer industries
gearboxes

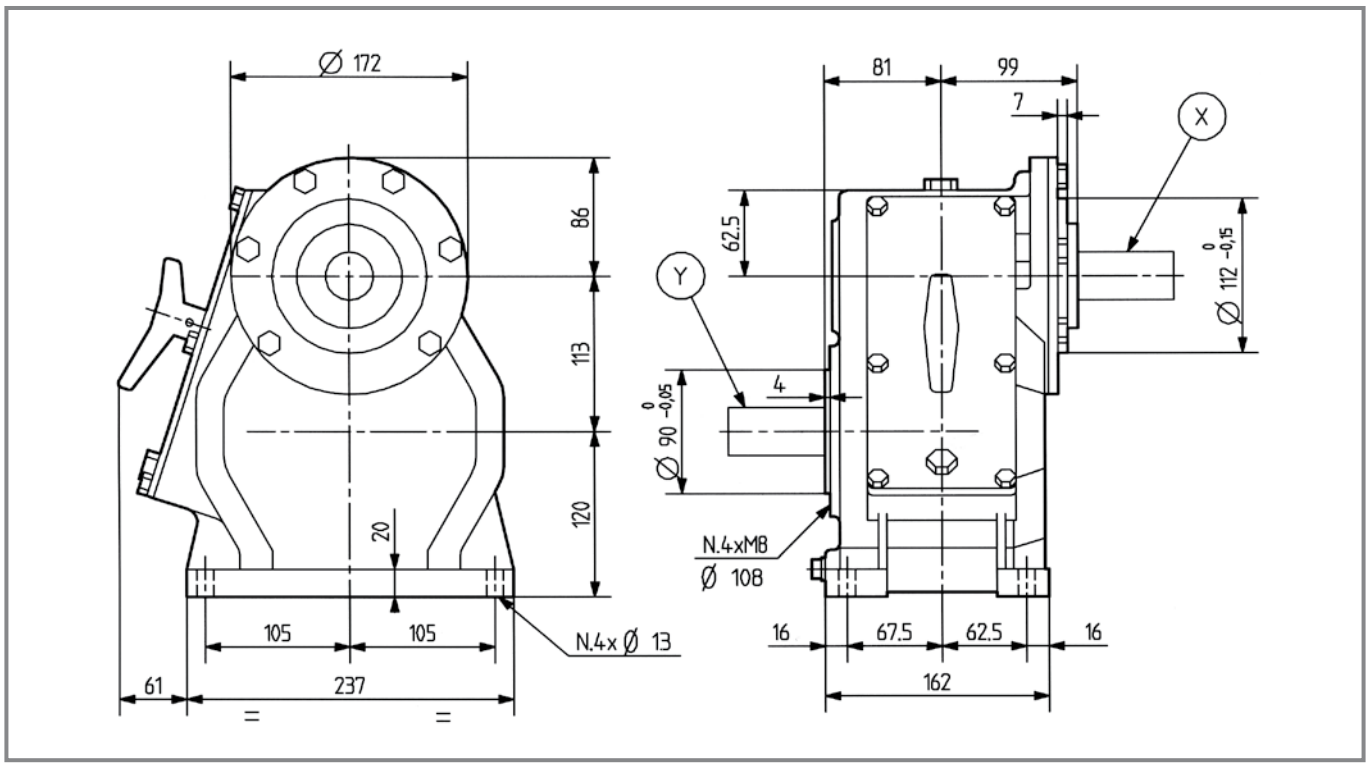
D-21A

Code **727**

kg	[kg]	31
OIL	[l]	1.8

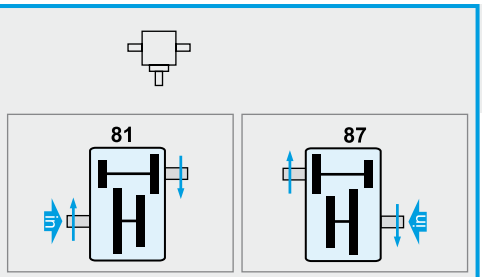
3.01





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**2.95 - 3.88**	540	**41.2**	*56.0*	-	-	std	Y
	3.61 - 4.53		**40.5**	*55.0*	-	-		
	3.88 - 4.93		**39.0**	*53.0*	-	-		

81-87



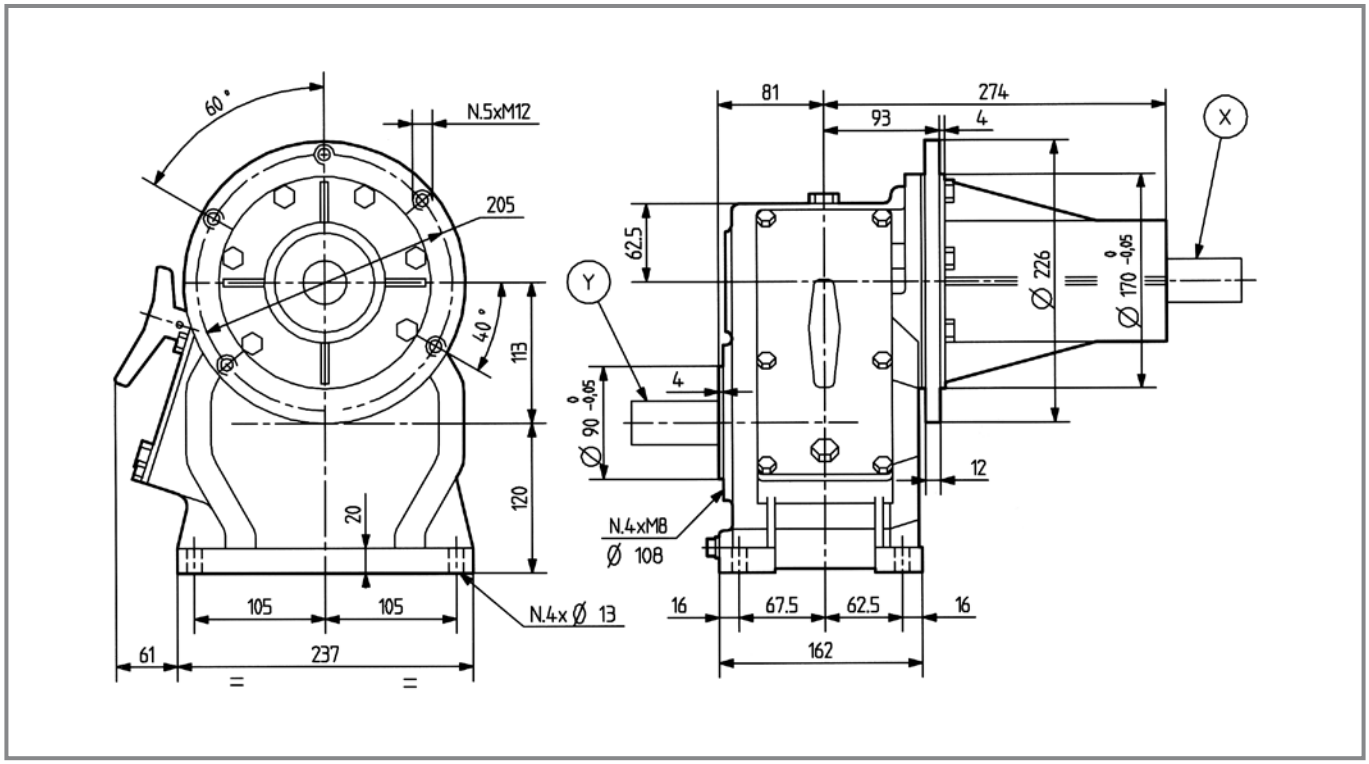
D-21B

3.01

Code **727**

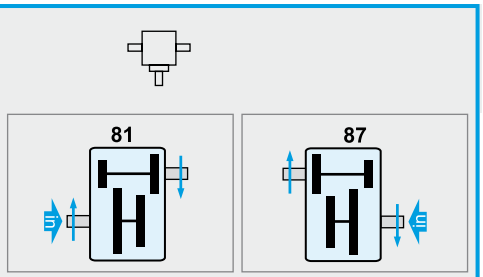
kg	[kg]	37

OIL	[l]	1.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**2.95 - 3.88**	540	**41.2**	*56.0*	-	-	std	Y
	3.61 - 4.53		**40.5**	*55.0*	-	-		

81-87



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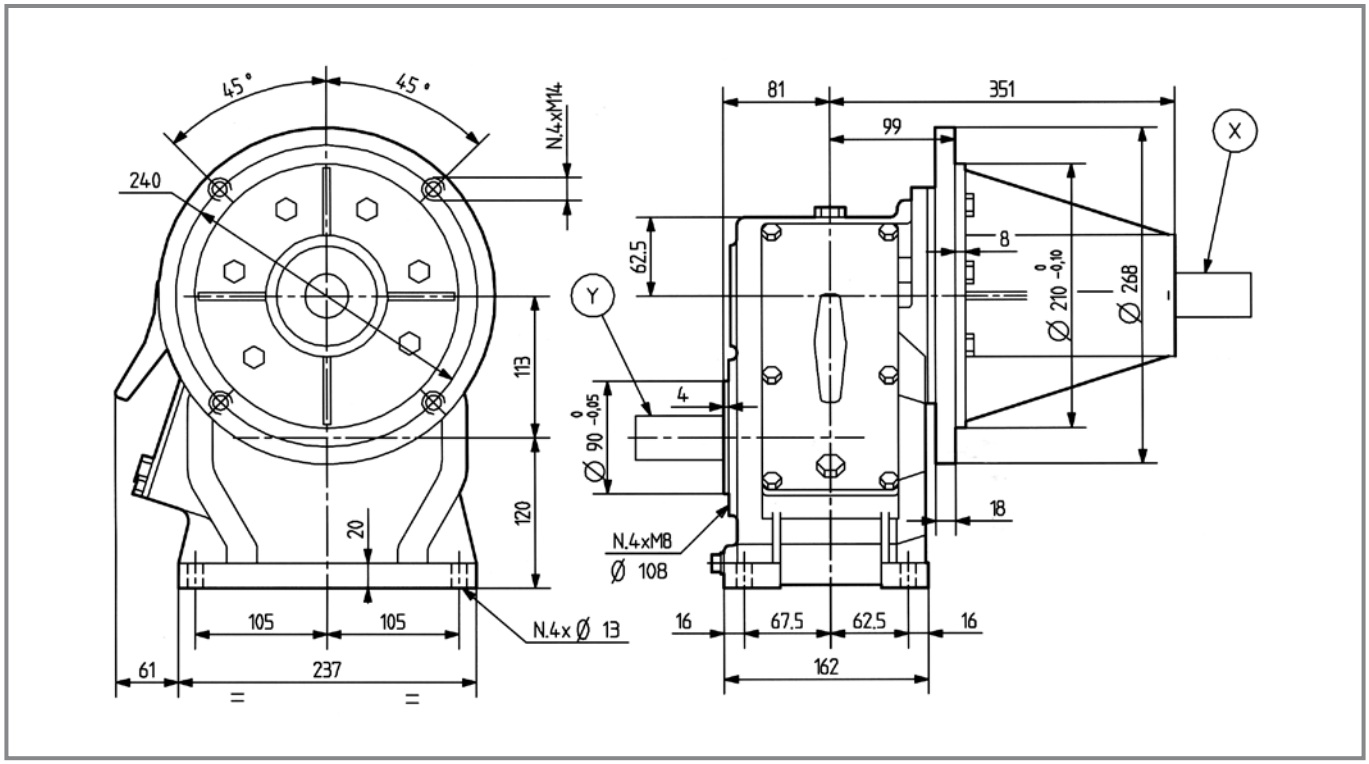
D-21D

3.01

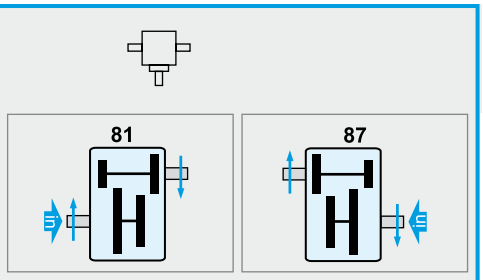
Code **727**

kg	[kg]	46.5

OIL	[l]	1.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	**2.95 - 3.88**	540	**41.2**	*56.0*	-	-	std	Y	81-87



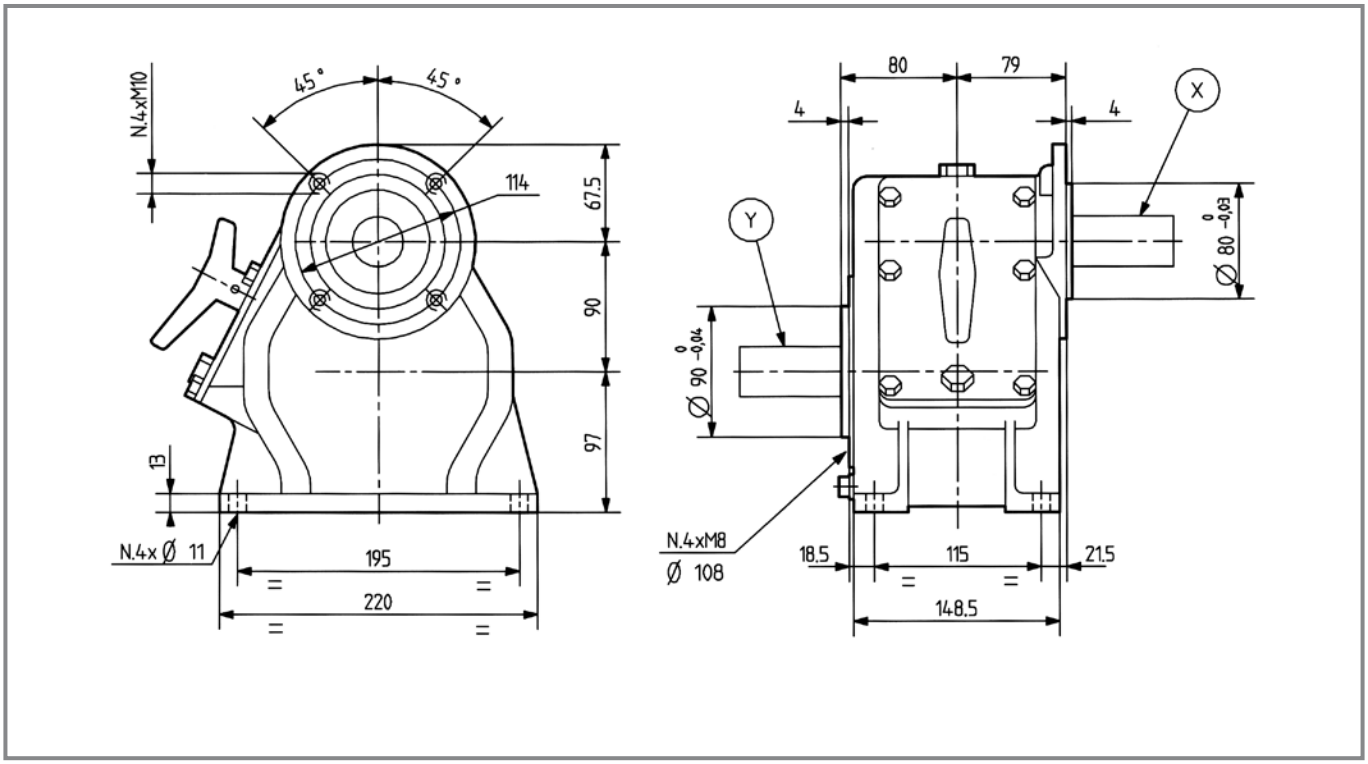
D-27A

3.01

Code **727**

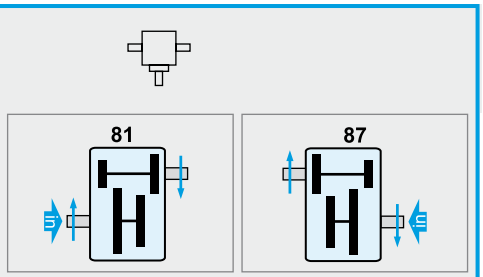
kg	[kg]	22.5

OIL	[l]	1.3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**3.69 - 4.36**	540	**22.1**	*30.0*	-	-	std	Y
	3.69 - 4.40				-	-		
	3.69 - 4.80				-	-		

81-87



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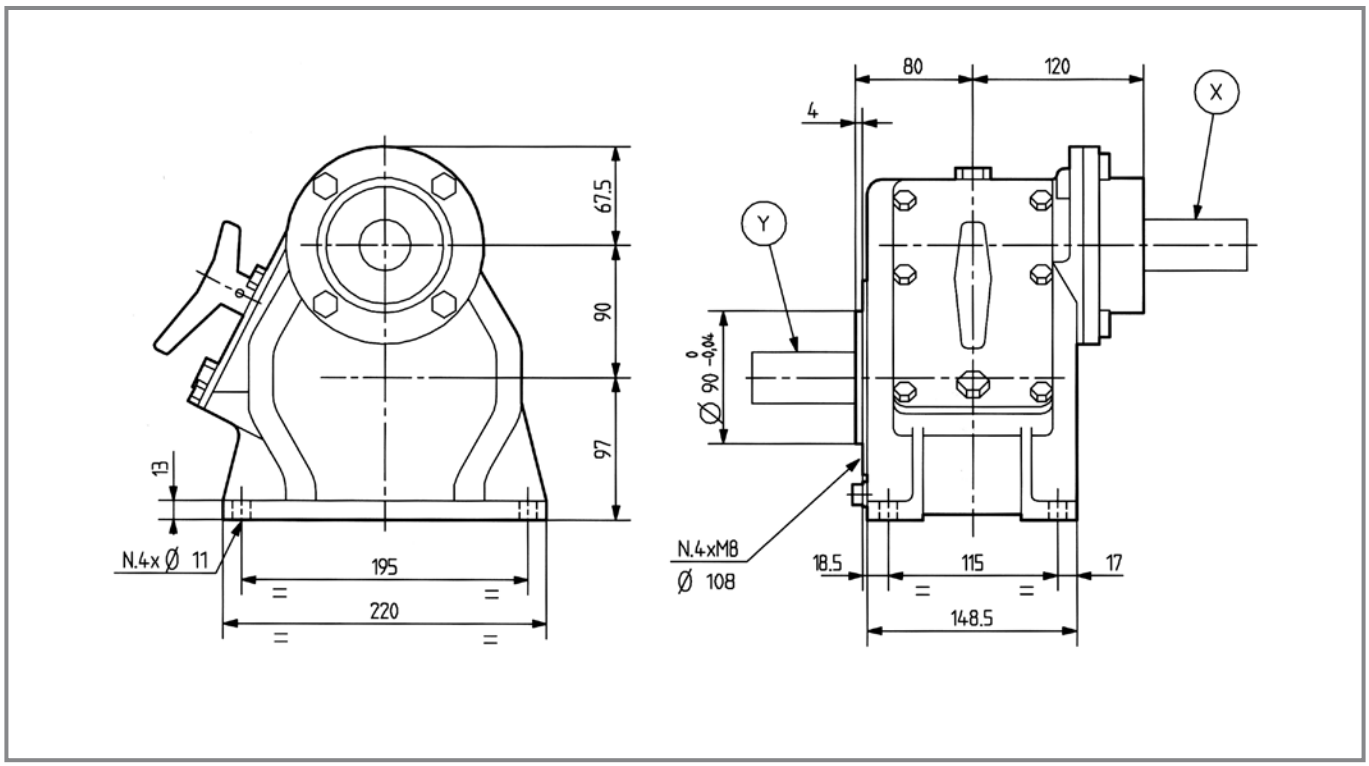
D-27B

3.01

Code **727**

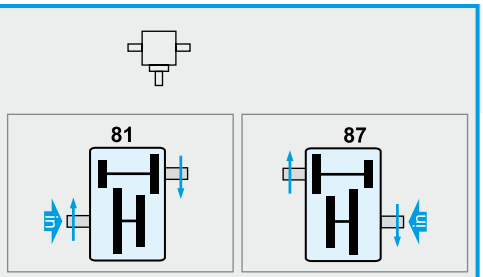
kg	[kg]	25

OIL	[l]	1.3



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**3.69 - 4.36**	540	**22.1**	*30.0*	-	-	std	Y
	3.69 - 4.80				-	-		
	4.00 - 5.25				-	-		

81-87

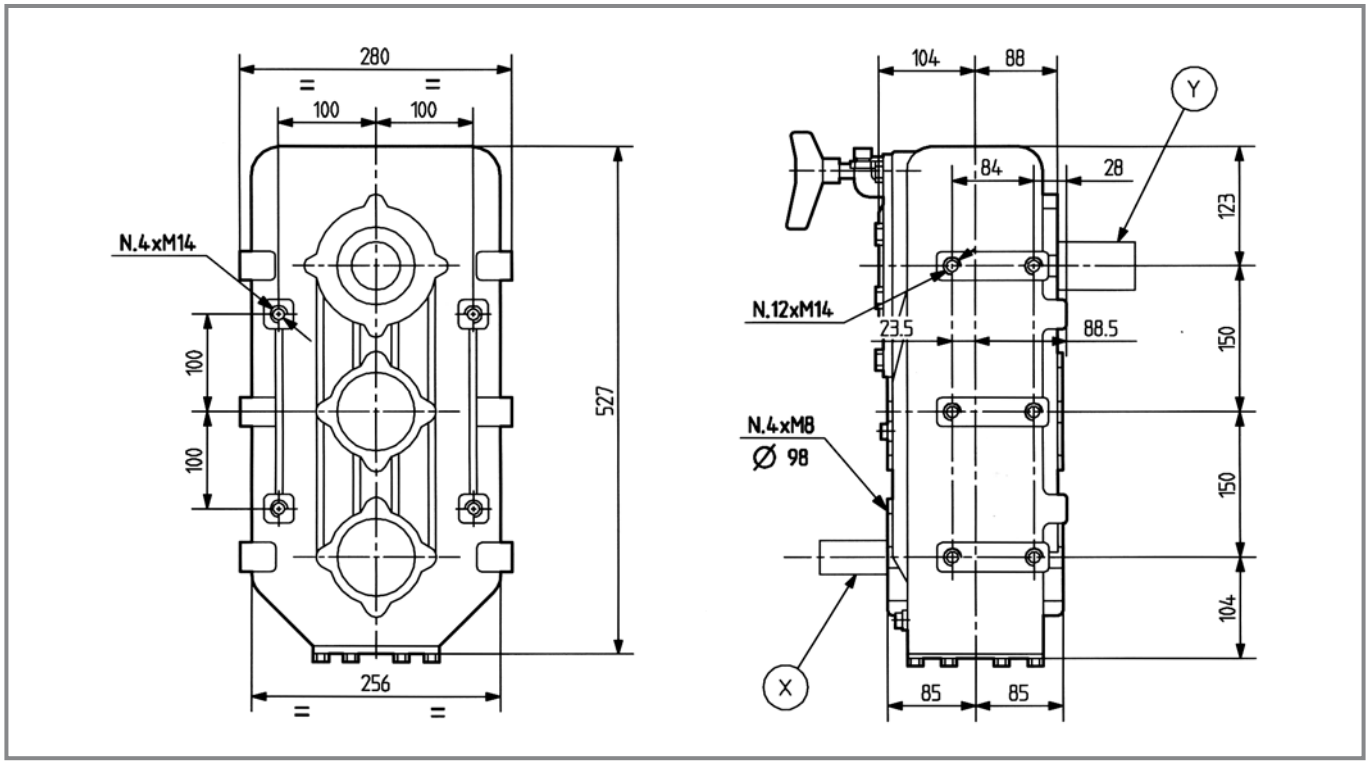


D-732A

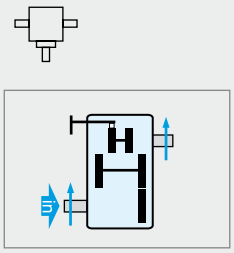
4.06

kg	[kg]	62

OIL	[l]	5.6



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.00 - 1.23	540	59.0	80.0	-	-	std	Y	-
	1.00 - 1.41				-	-			-
	1.00 - 1.52				-	-			-
	1.00 - 1.88				-	-			-
	1.00 - 1.93				-	-			-

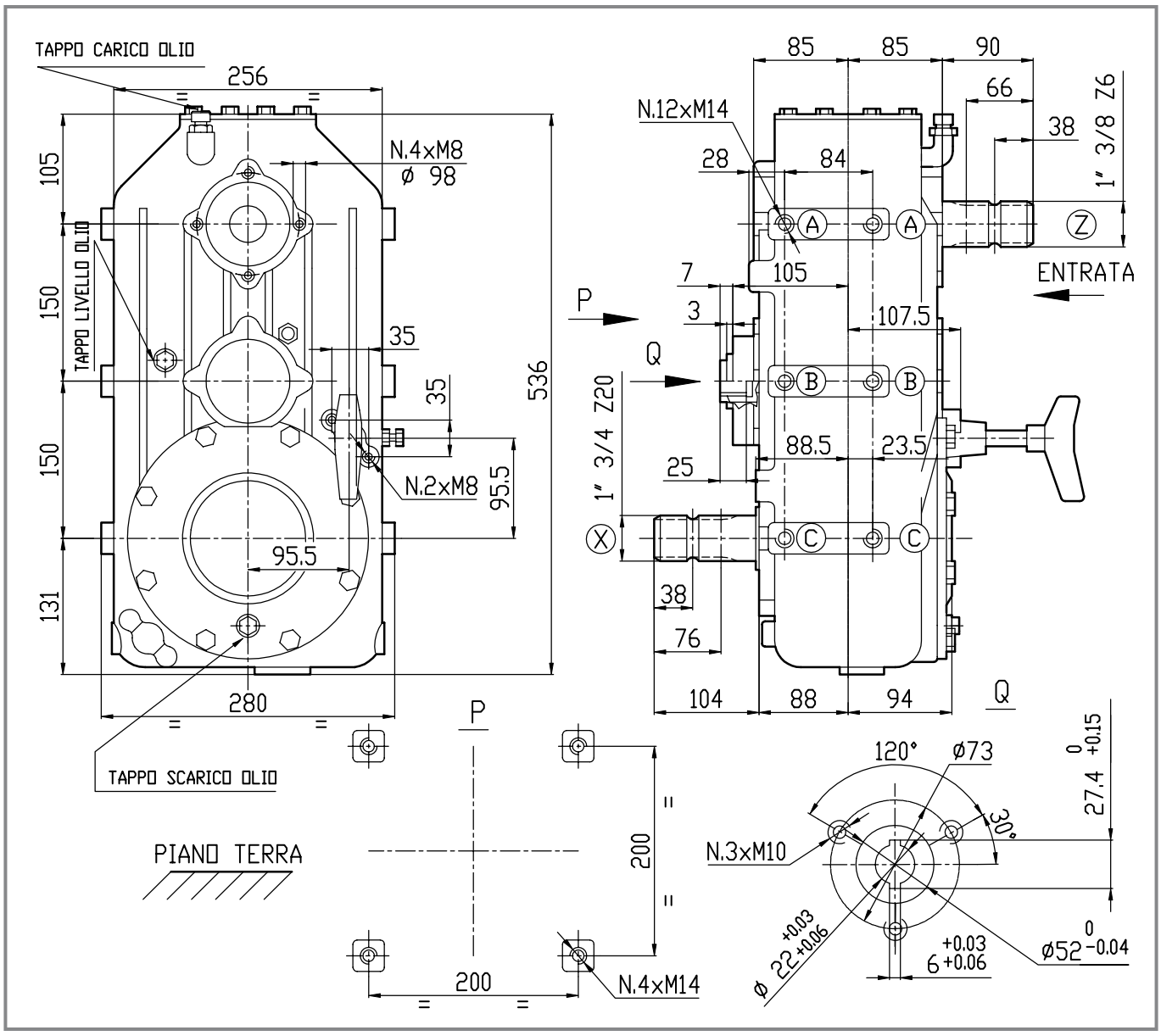


DP-732A

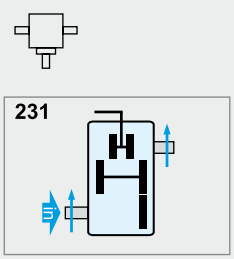
4.06

kg	[kg]	62

OIL	[l]	5.6



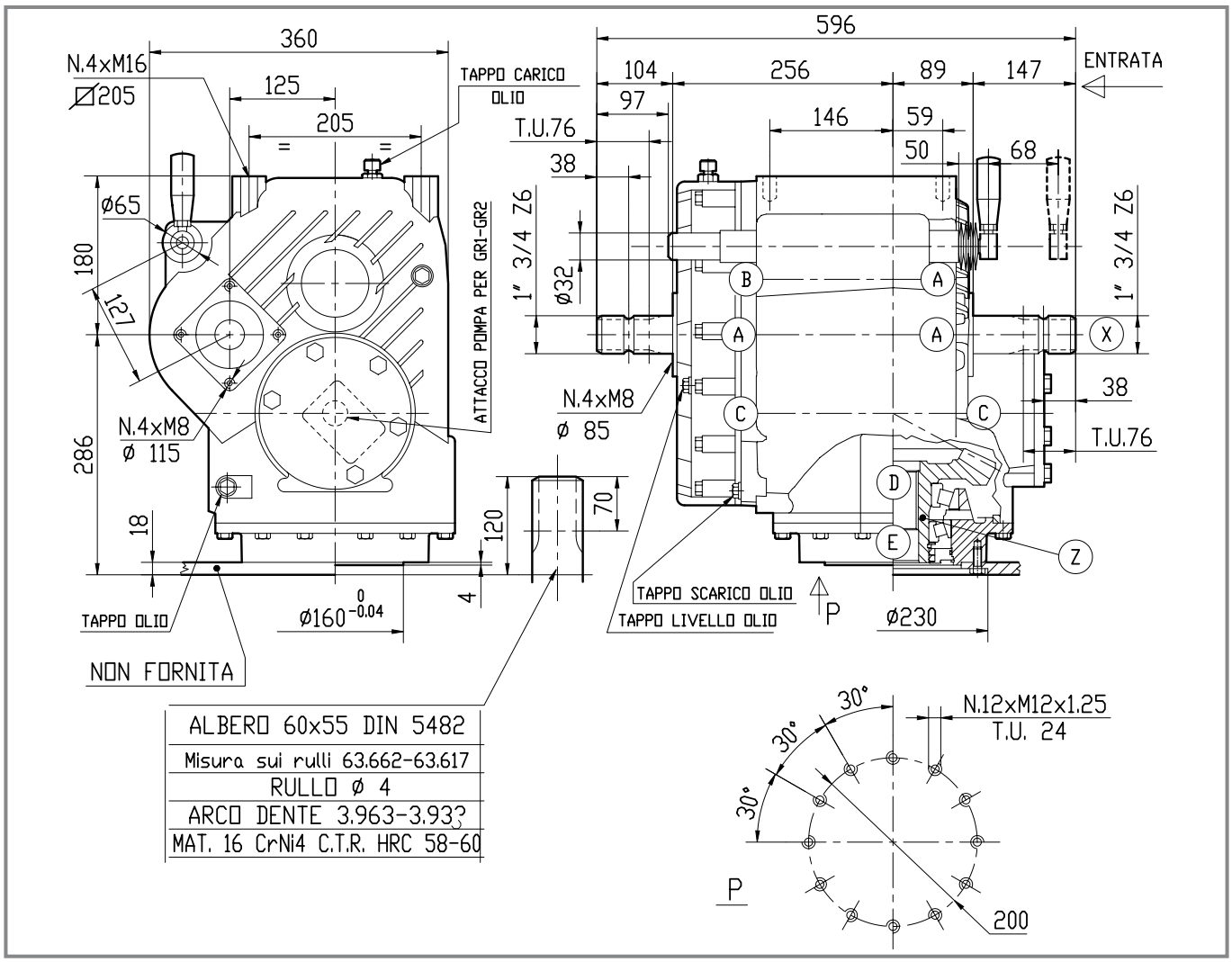
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
M	1.00 - 1.23	540	59.0	80.0	-	-	std	Y	231
	1.00 - 1.41				-	-			
	1.00 - 1.52				-	-			
	1.00 - 1.88				-	-			
	1.00 - 1.93				-	-			



DV-733F

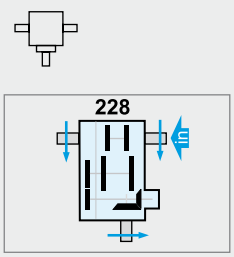
2.02 2.01
Vers. DZ-733F

kg [kg]	-	OIL [l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	3.14	1000	132.5	180			std	X	228
	3.64								

Disponibili rapporti di riduzione compresi tra 1.82 e 4.06
Available ratioes from 1.82 to 4.06



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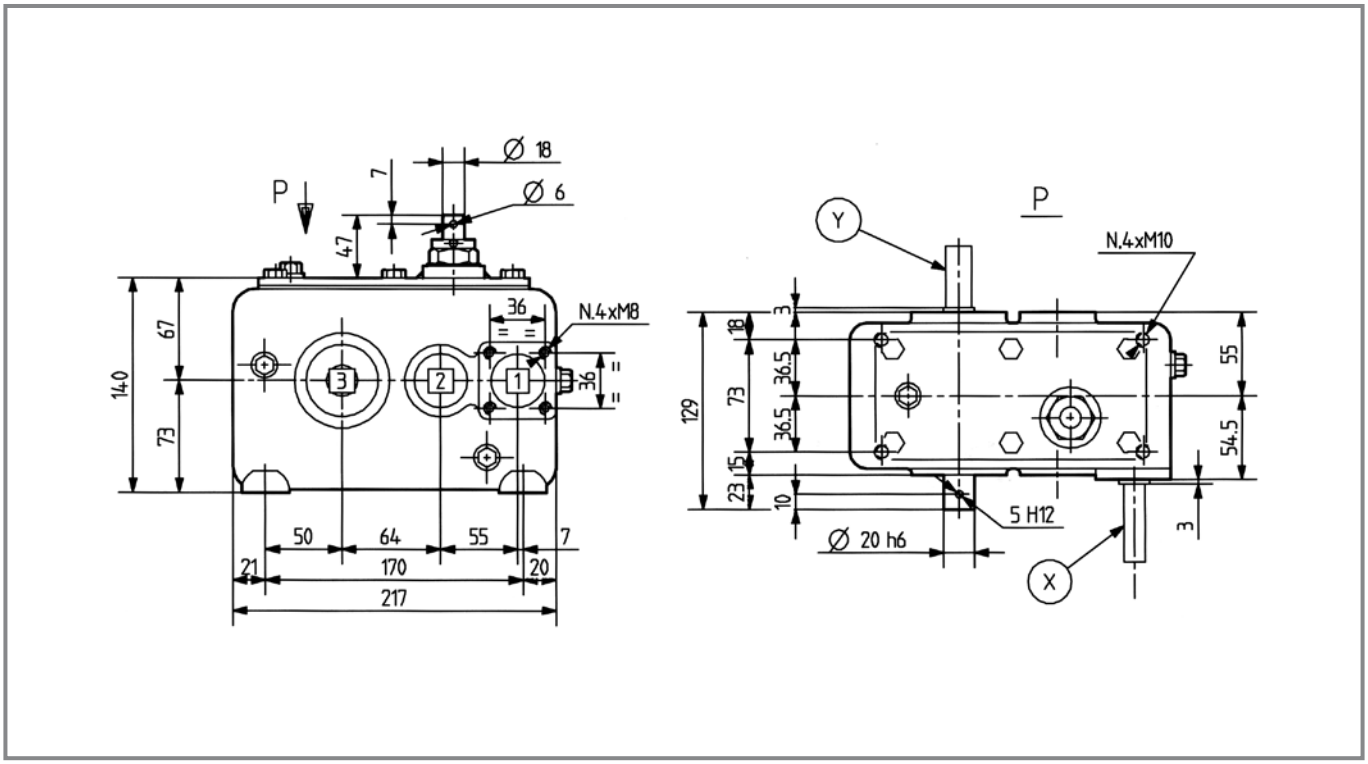
D-741A

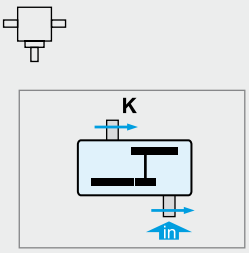
3.04

kg	[kg]	9.4

OIL	[l]	0.9



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	160	-	-	-	50	463	std	X	K

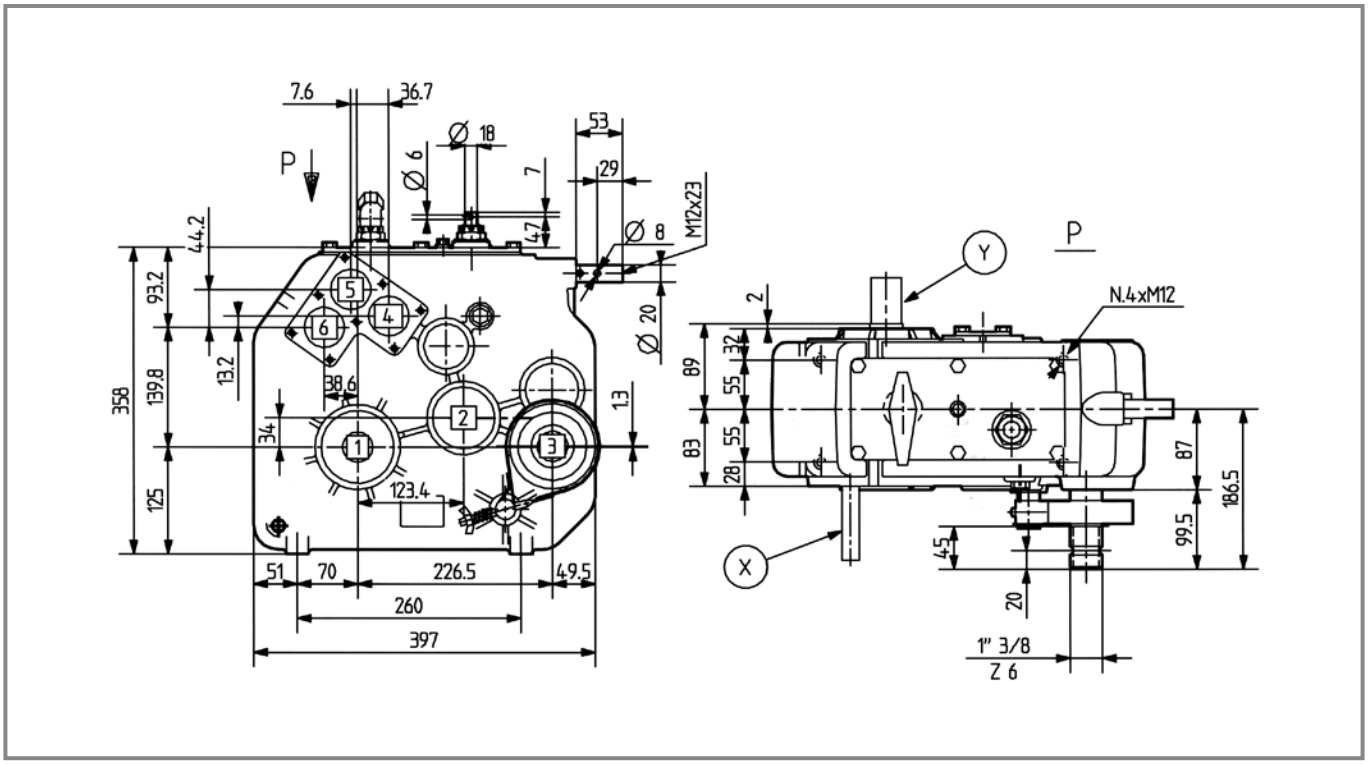


D-742

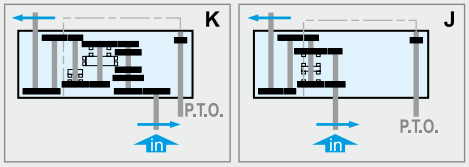
3.04

kg	[kg]	53

OIL	[l]	11



	i		Nm	lb.in.	P.T.O.	std spec	Input	
R	I	756	2000	18522	10.7	std	X	K
	II	348						
	III	241						
	IV	116						
	I	250	2000	18522	10.7	std	X	J
	II	115						



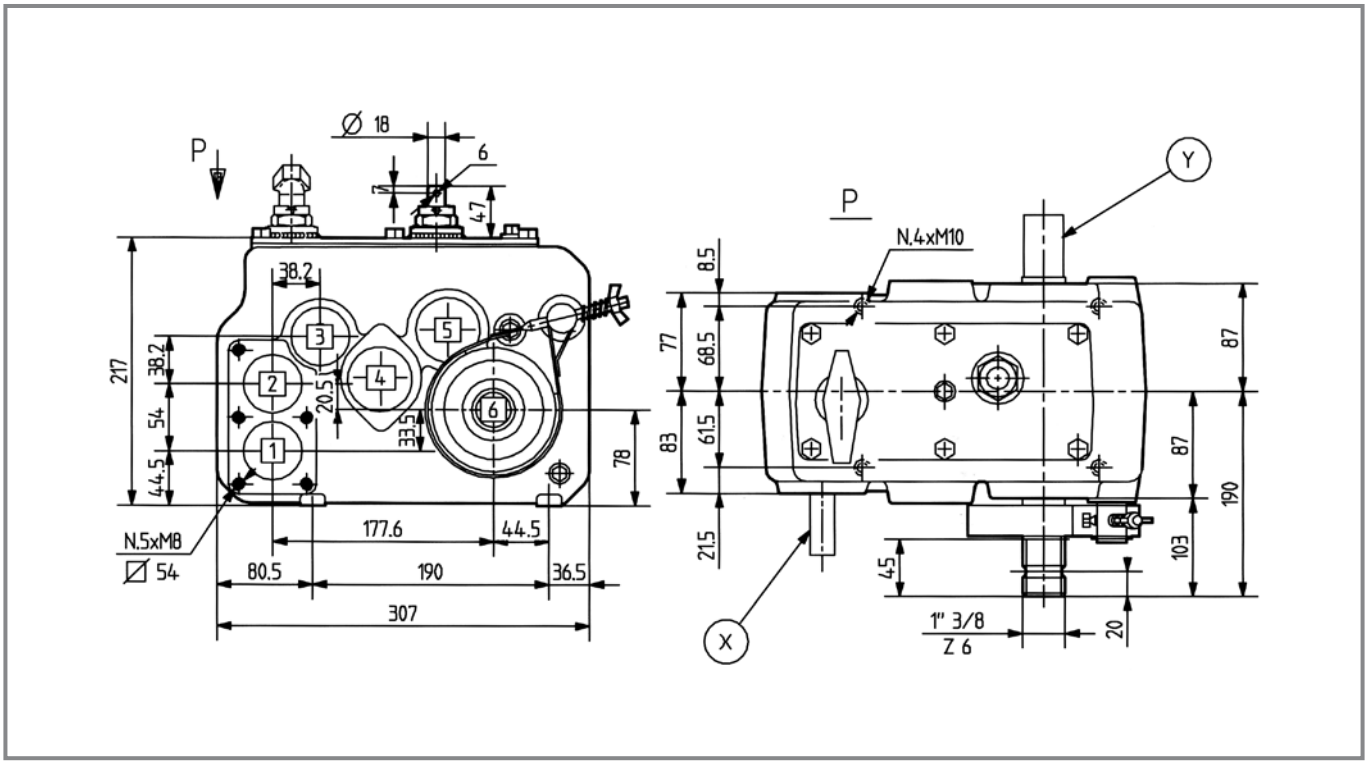
comer industries
gearboxes

D-743

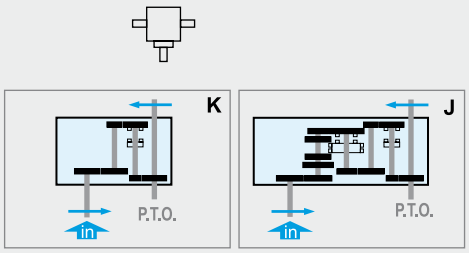
3.04

kg	[kg]	28.5

OIL	[l]	4.3



	i		Nm	lb.in.	P.T.O.	std spec	Input	
R	I	631	250	2315	—	std	X	J
	II	291						
	III	201						
	IV	97						
	I	263	250	2315	—	std	X	K

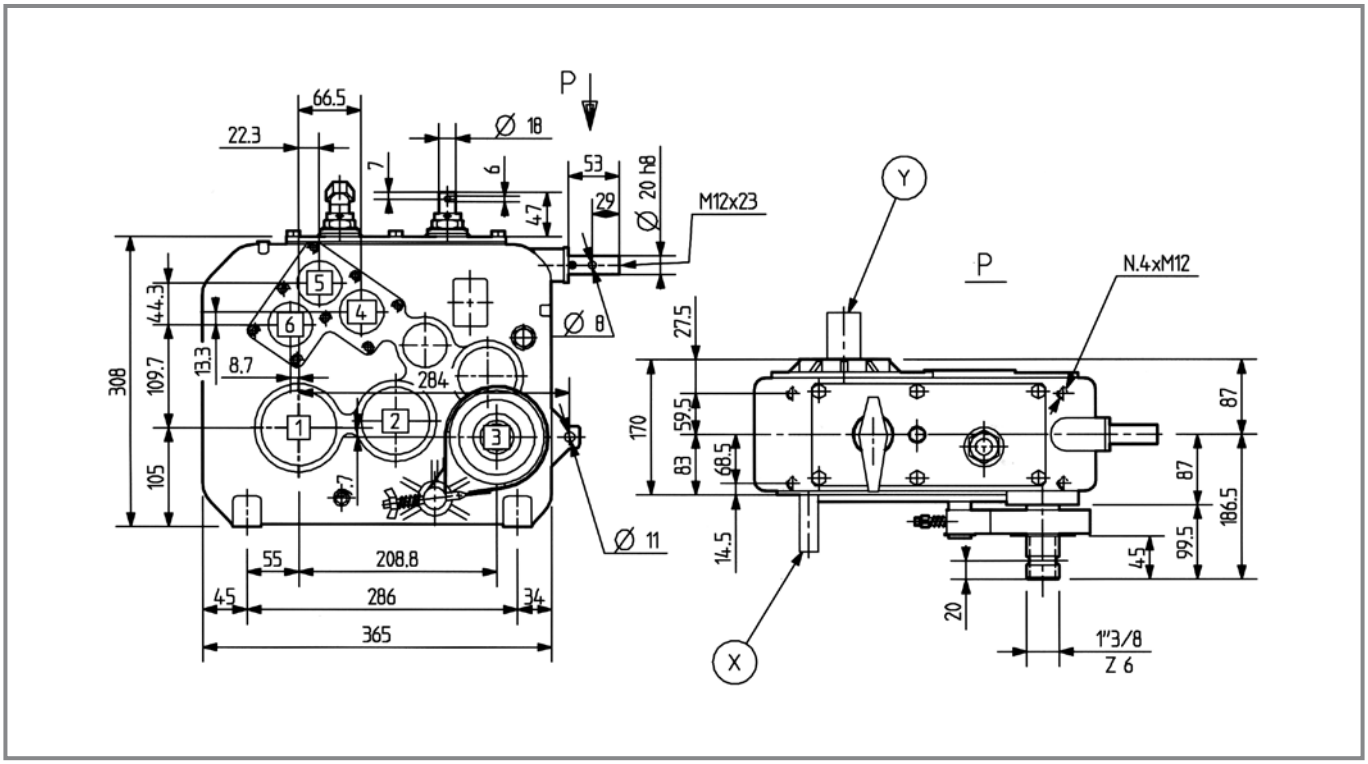


D-744

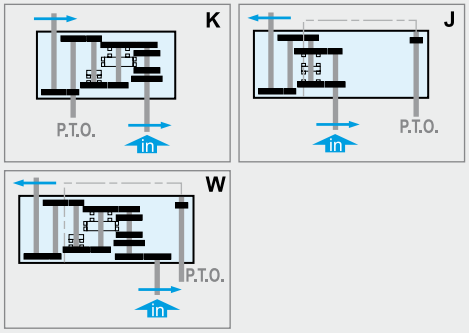
3.04

kg	[kg]	46

OIL	[l]	7.0



	i		Nm	lb.in.	P.T.O.	std spec	Input	
R	I	781	1100	10186	11.09	std	X	W
	II	360						
	III	249						
	IV	120						
R	I	781	1100	10186	5.166	std	X	K
	II	360						
	III	249						
	IV	120						
	I	260	1100	10186	11.09	std	X	J
	II	119						



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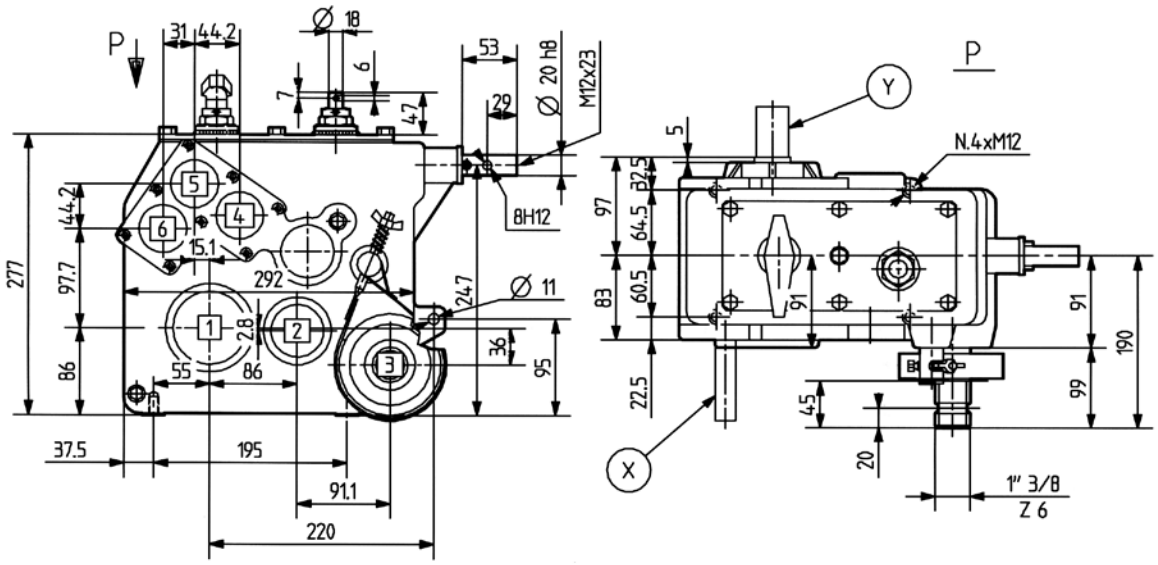
D-745

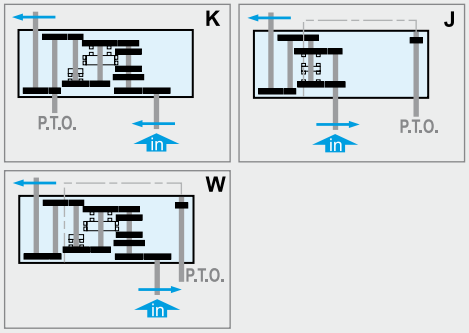
3.04

kg	[kg]	37

OIL	[l]	5.7



	i		Nm	lb.in.	P.T.O.	std spec	Input	
R	I	766	600	5557	11	std	X	W
	II	353						
	III	244						
	IV	118						
R	I	766	600	5557	4.6	std	X	K
	II	353						
	III	244						
	IV	118						
	I	254	600	5557	11	std	X	J
	II	117						

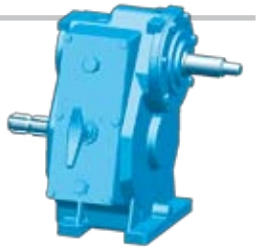


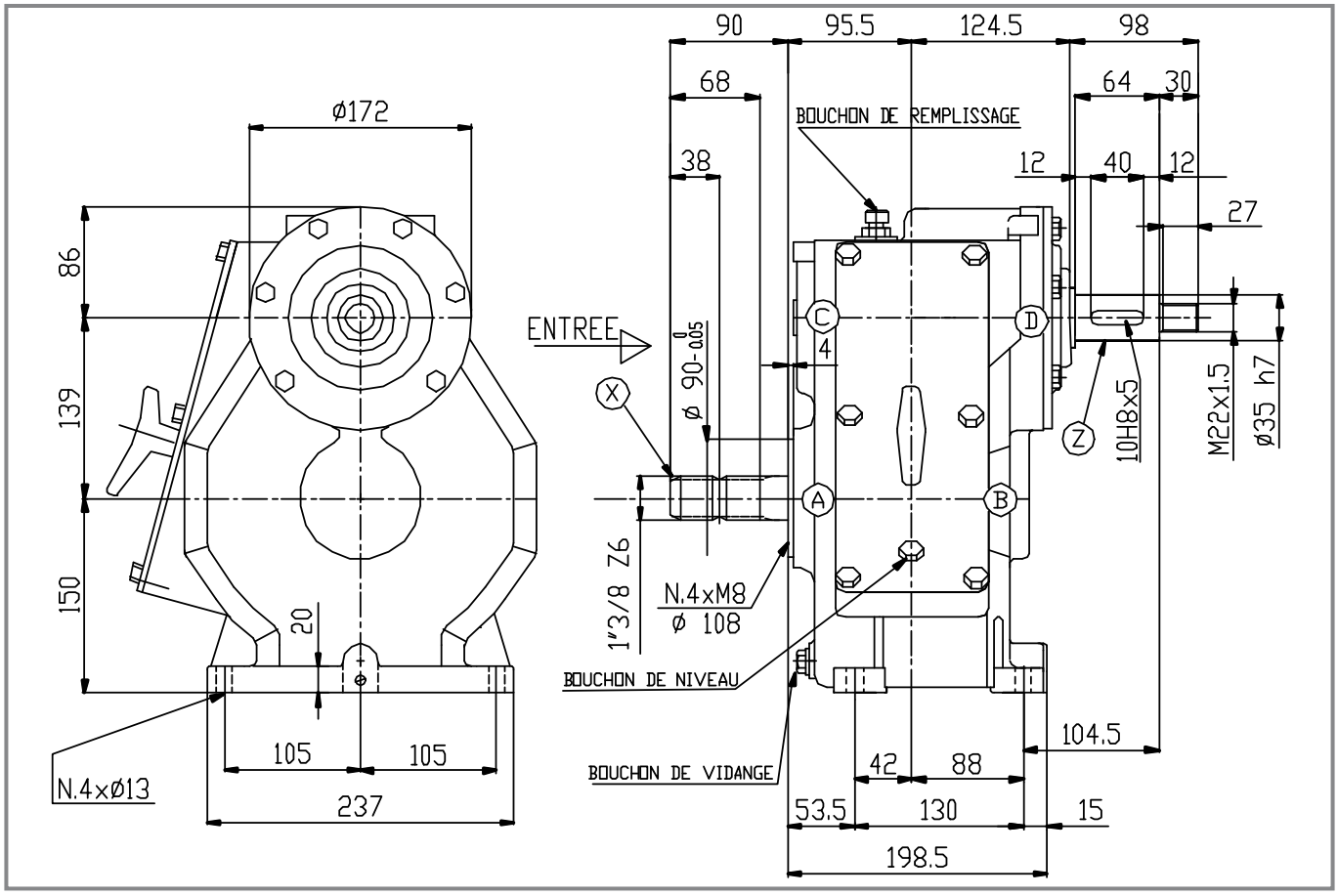
D-761

3.01

kg	[kg]	44

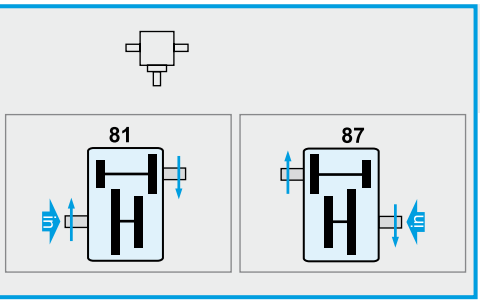
OIL	[l]	-





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
M	**6.85**	540	**47.8**	*65.0*	-	-		
	7.50							

81-87



comer industries
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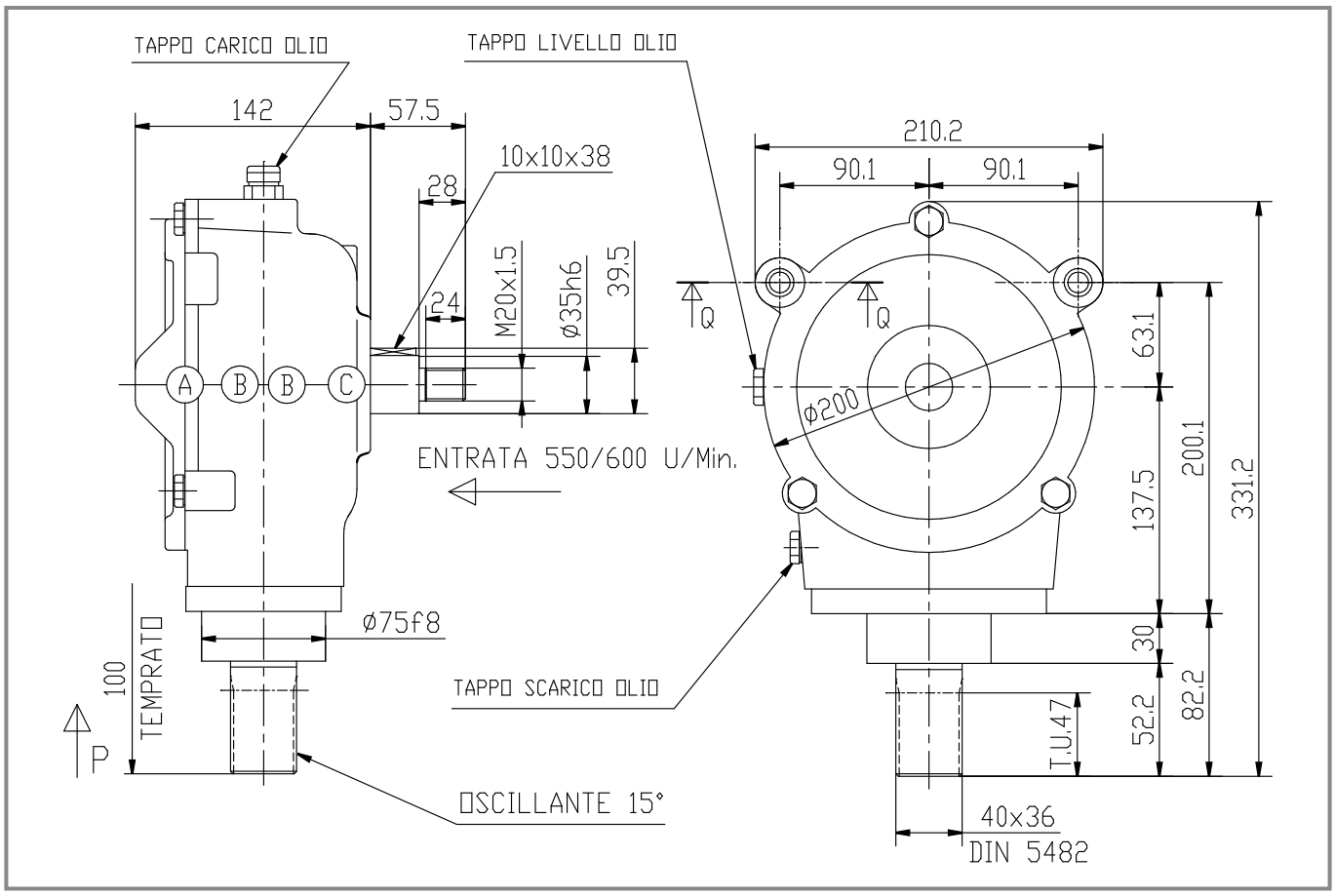
OS-784

4.08

kg	[kg]	21

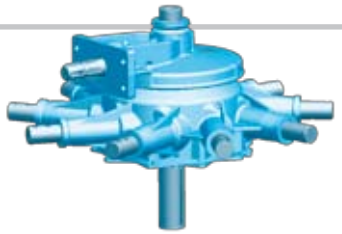
OIL	[l]	-



i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
-	550÷600	-	-	-	-	-	-	-

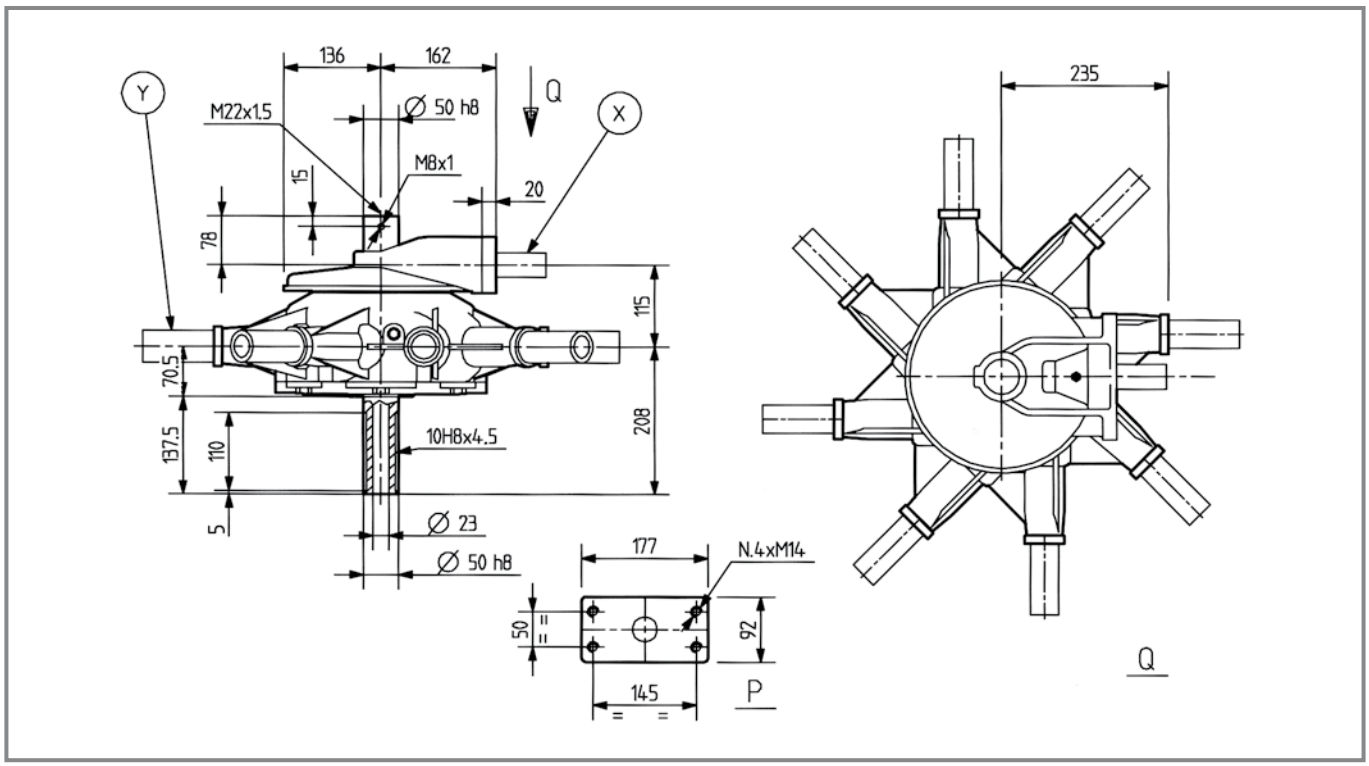
K-789A

4.02

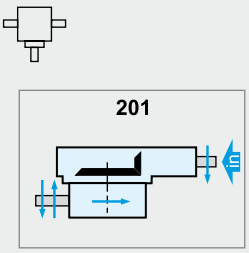


kg	[kg]	67

OIL	[l]	2.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	6.80	540	-	-	19	1759	std	X	201
	7.20		-	-					



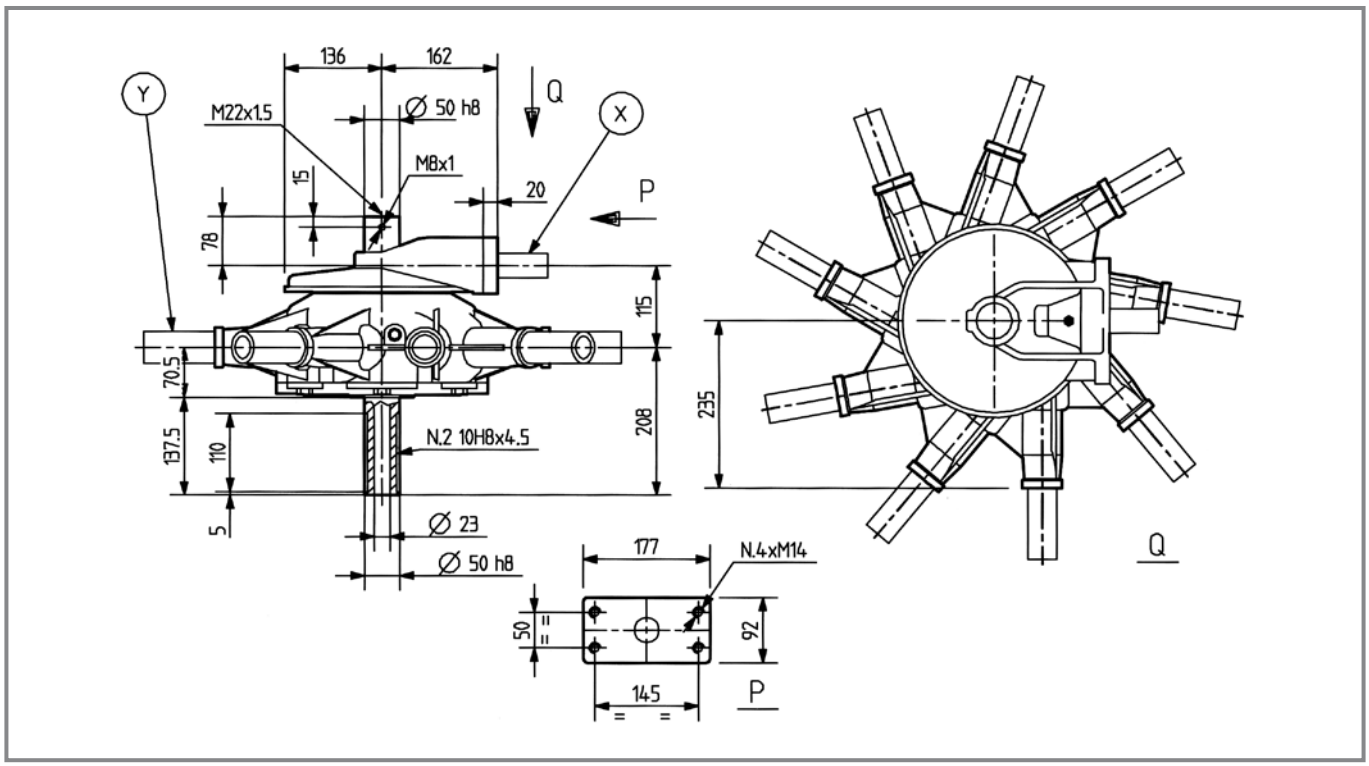
comer industries
gearboxes

K-791A

4.02

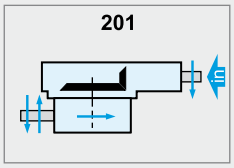
kg	[kg]	75

OIL	[l]	3.1



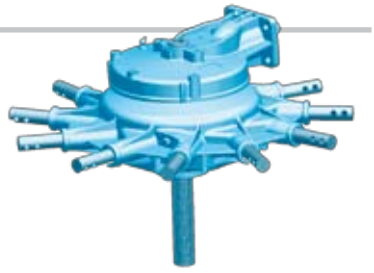
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	6.80	540	-	-	19	1759	std	X
	7.20		-	-				

201



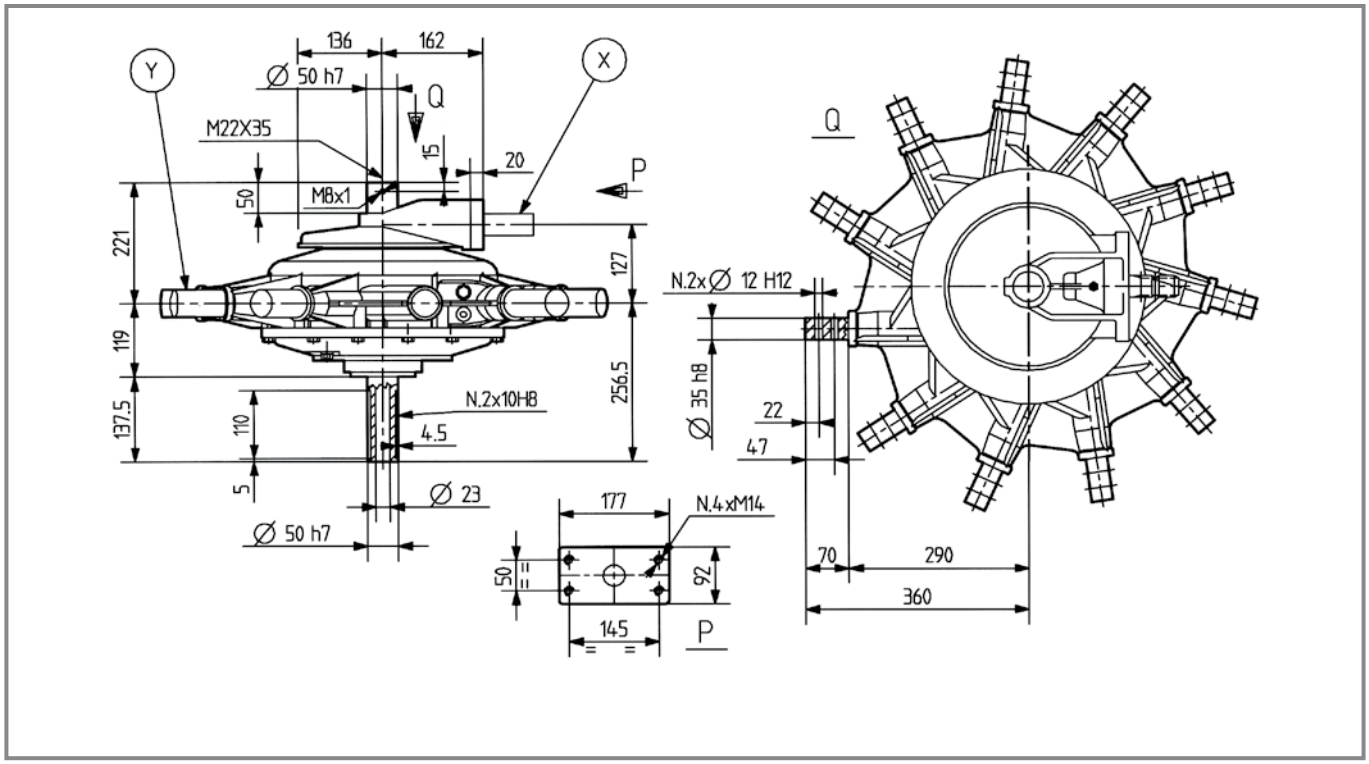
K-792A

4.02



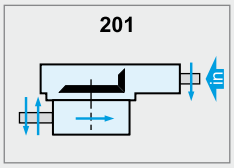
kg	[kg]	100

OIL	[l]	5.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**7.20**	540	-	-	21	*1935*	std	X
	8.10		-	-				
	9.70		-	-				

201
Versoni DX e SX
Versions left and right



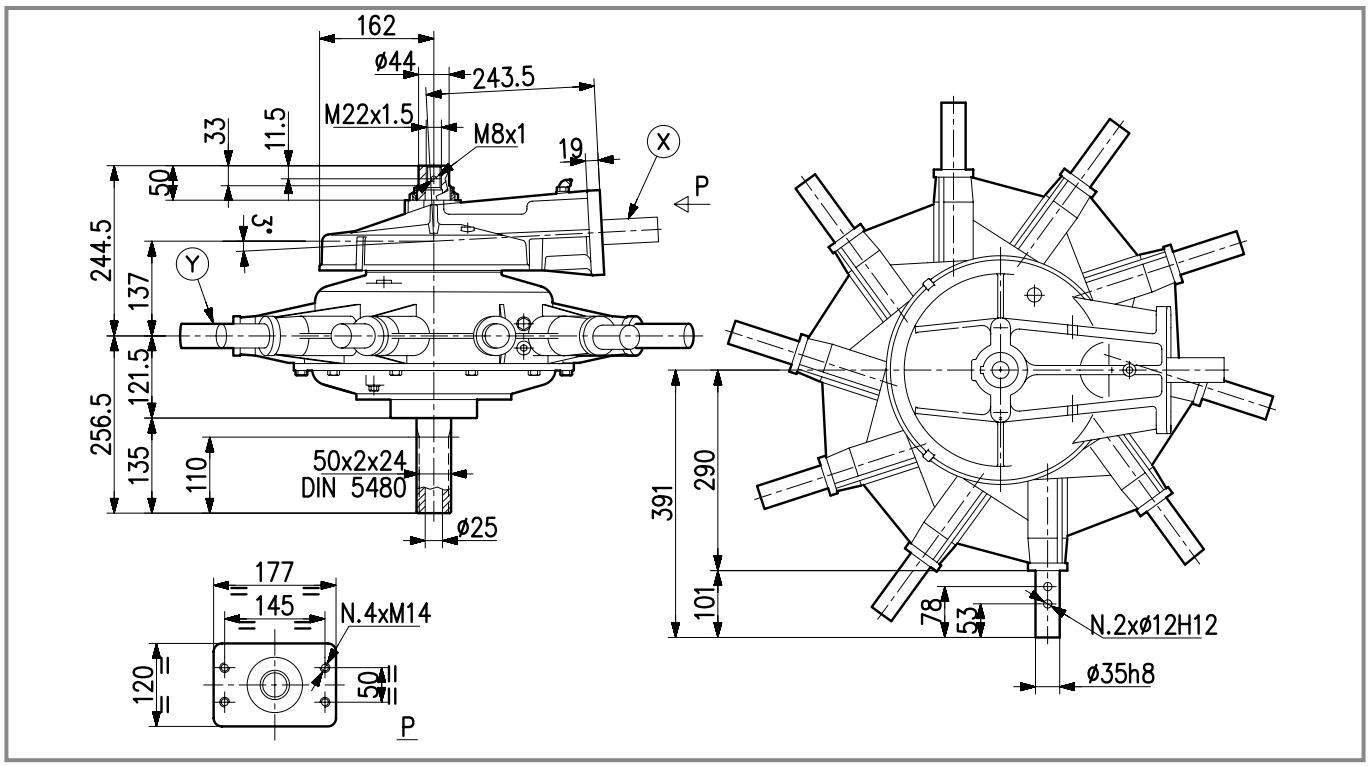
comer industries
gearboxes

K-794A

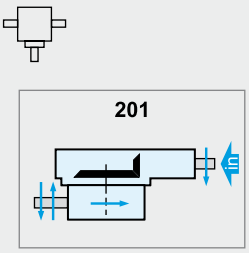
4.02

kg	[kg]	114

OIL	[l]	-

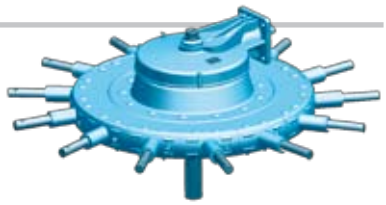


	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	8.10	540	-	-	19	1759	std	X	201
	9.70		-	-					



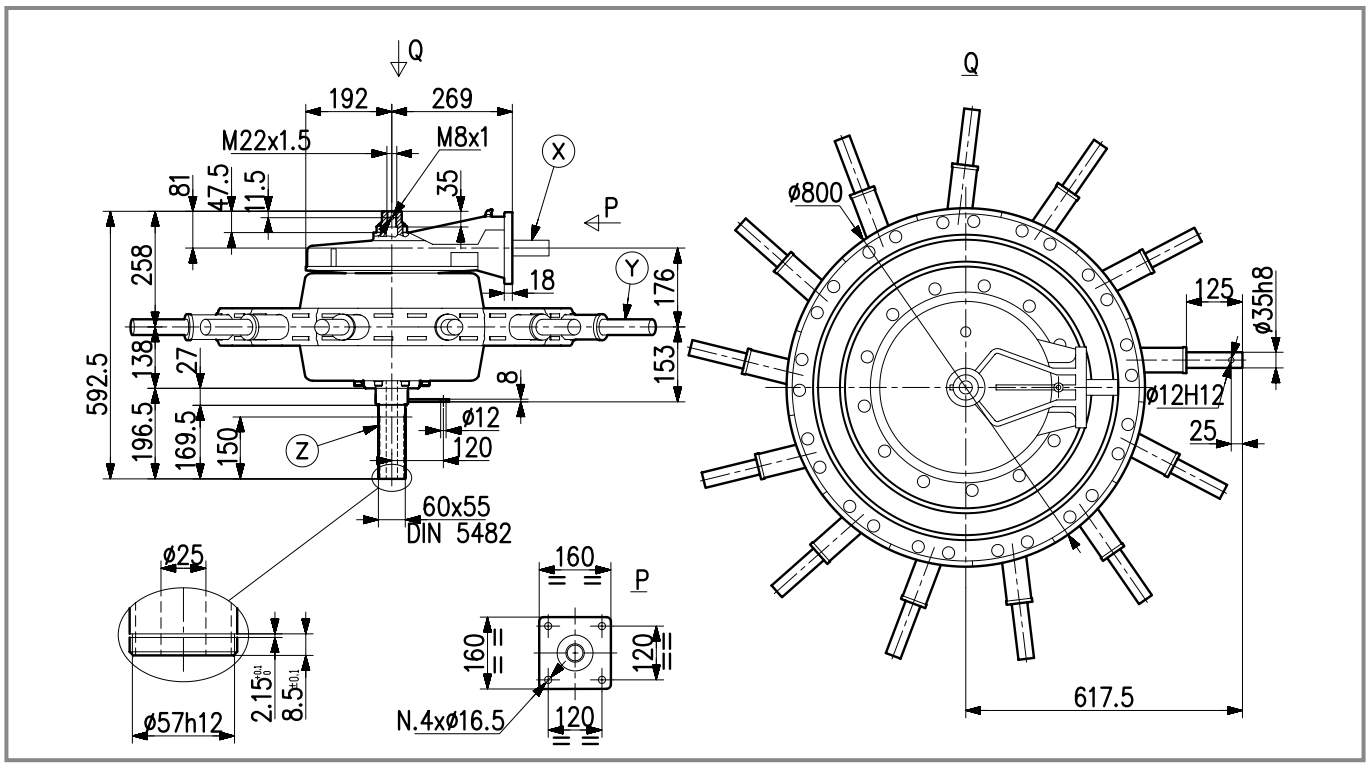
K-795A

4.02



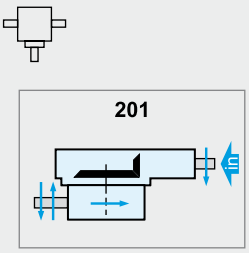
kg	[kg]	188

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**9.7**	540	-	-	21	*1935*	std	X

201
Versoni DX e SX
Versions left and right



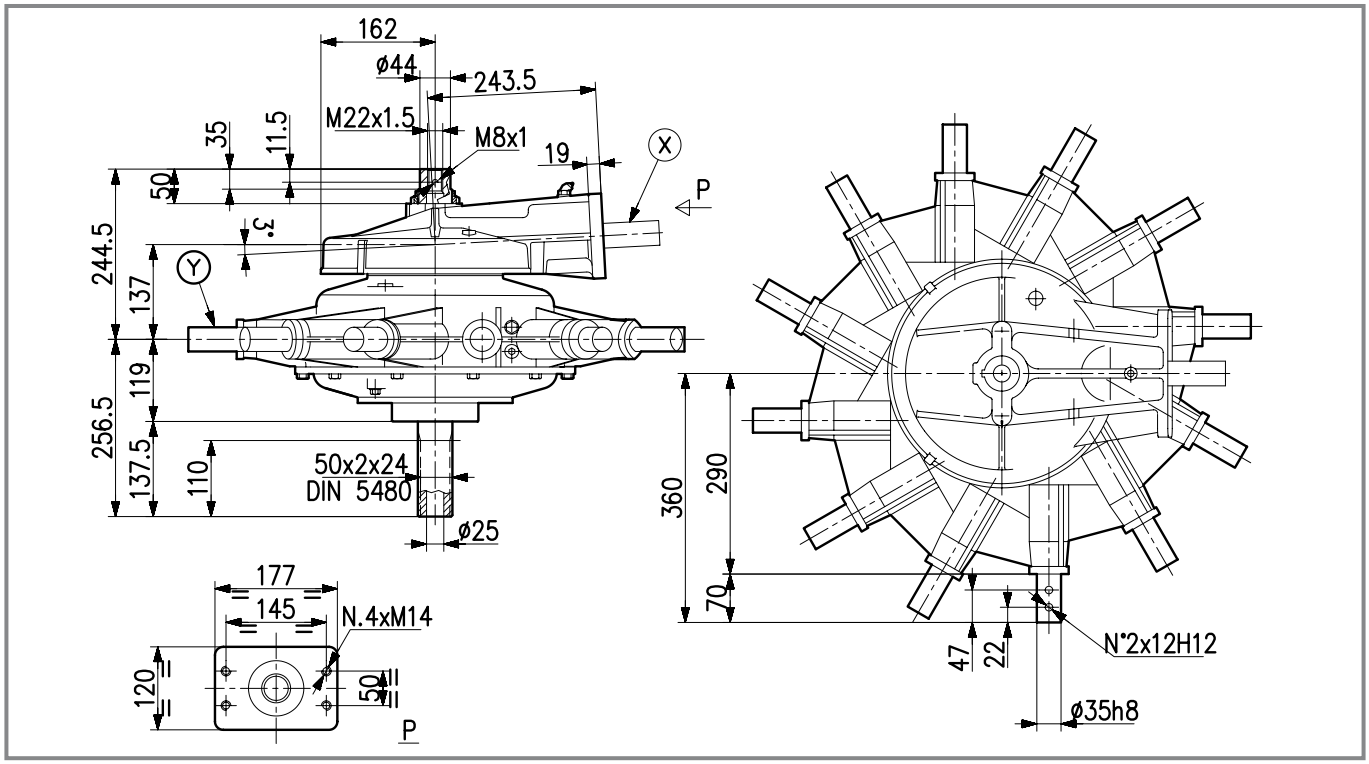
NOTA: codice K-796 versione 14 bracci
NOTE: code K-796 version 14 rakes

K-799A

4.02

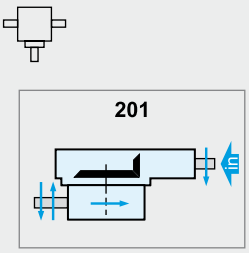
kg	[kg]	130

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	8.10	540	-	-	21	1935	std	X
	9.70		-	-	-	-		

201
Versoni DX e SX
Versions left and right

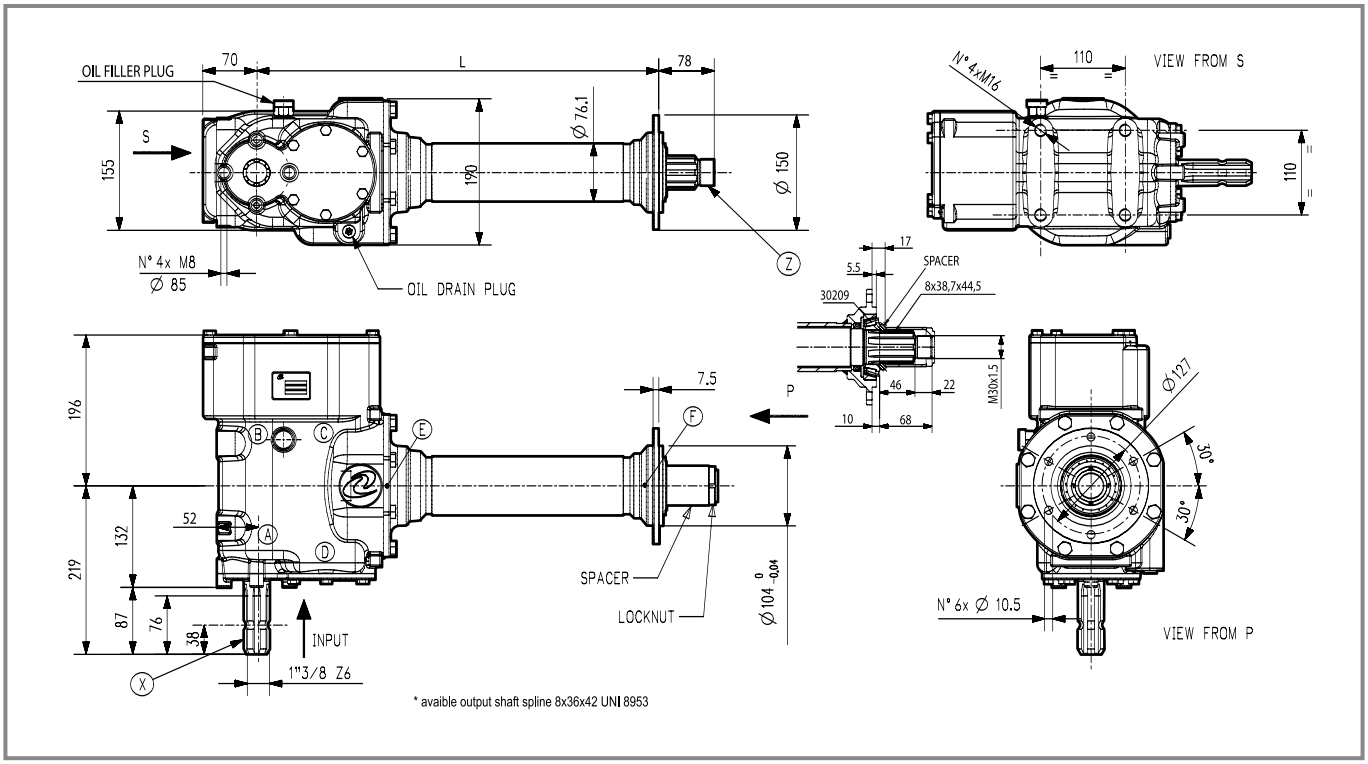


MZ-802J

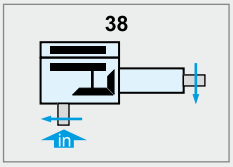
2.01

kg	[kg]	57

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	L (mm)	Code
R	1.49	540	44.0	60.0	-	-		X	800	
	1.64								925	
	1.80								1050	
	1.97								-	

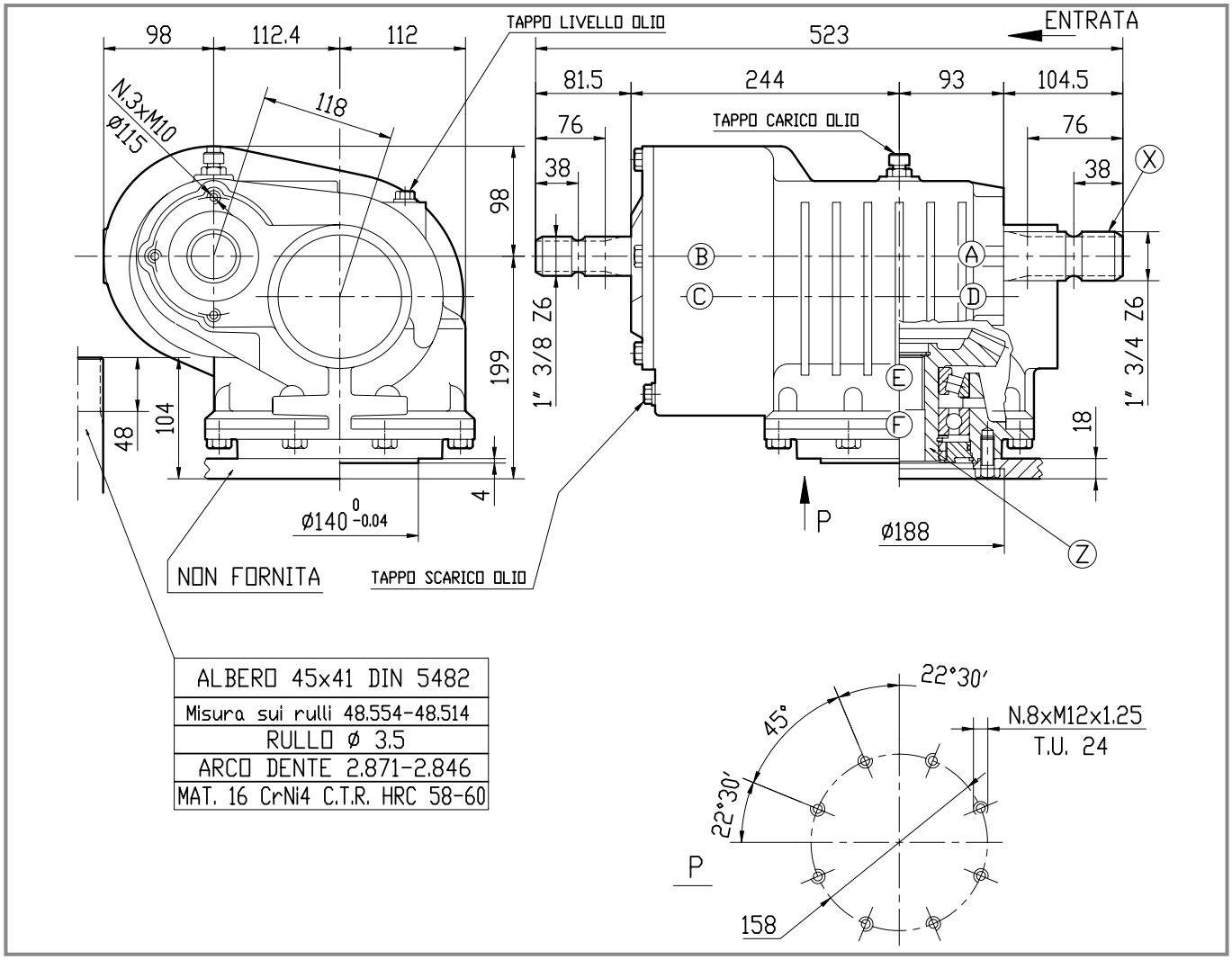
38	

MV-814F

2.02

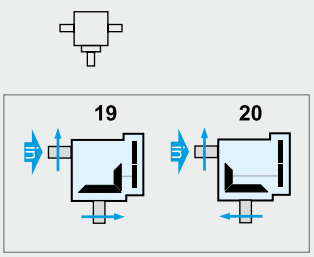
kg	[kg]	66

OIL	[l]	-



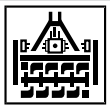
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.62	540	51.5	70.0			std	X	19-20
	2.65								

Disponibili rapporti di riduzione compresi tra 1.21 e 4.49
Available ratioes from 1.21 to 4.49



MV-817F

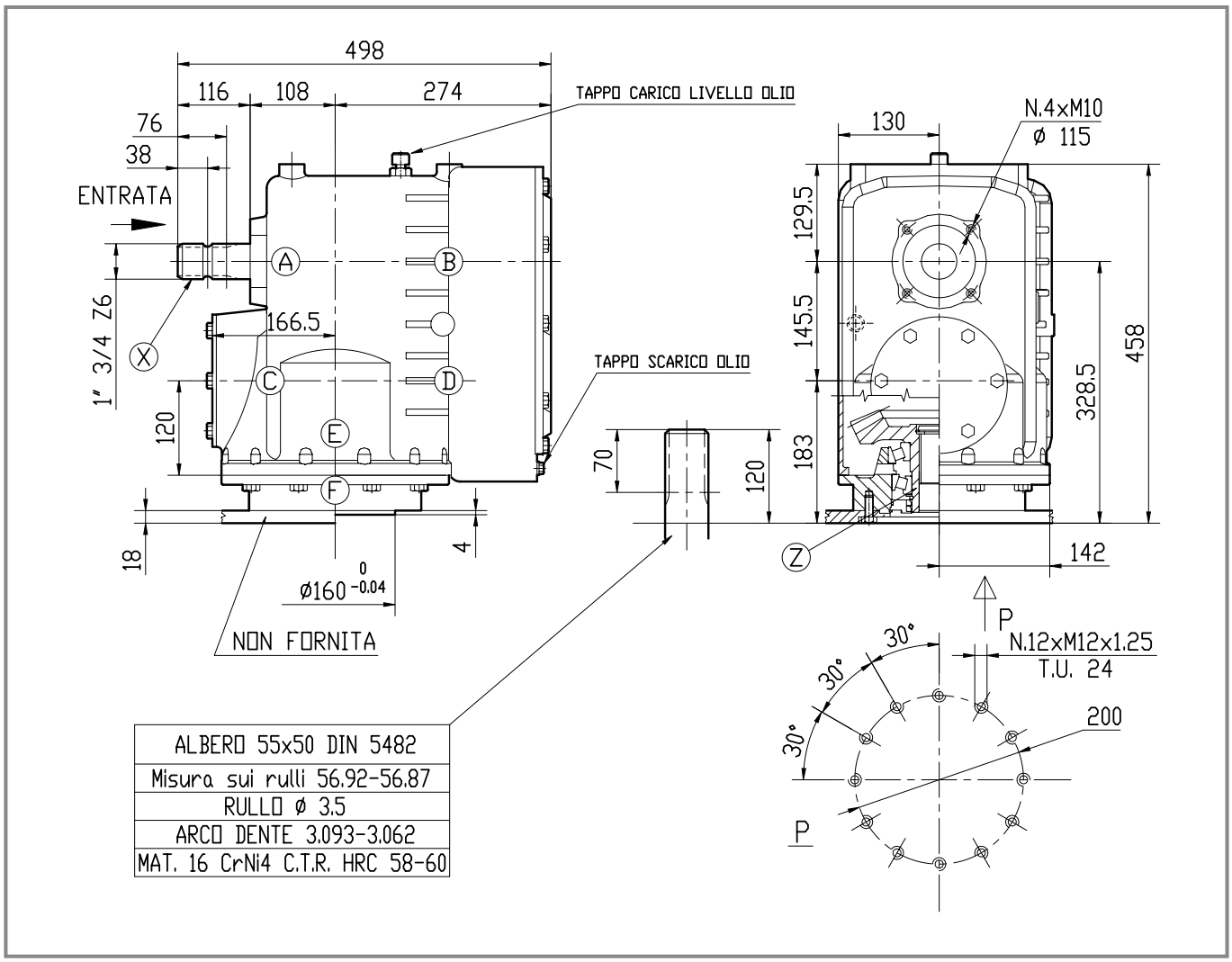
2.02



2.01
Vers. MZ-817F

kg	[kg]	100

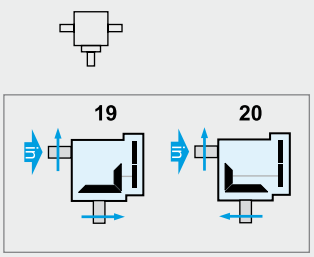
OIL	[l]	-



ALBERO 55x50 DIN 5482
Misura sui rulli 56.92-56.87
RULLO Ø 3.5
ARCO DENTE 3.093-3.062
MAT. 16 CrNi4 C.T.R. HRC 58-60

	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	1.67	540	70.0	95.0			std	X
	2.57							
	2.97	1000	77.0	105				

19-20



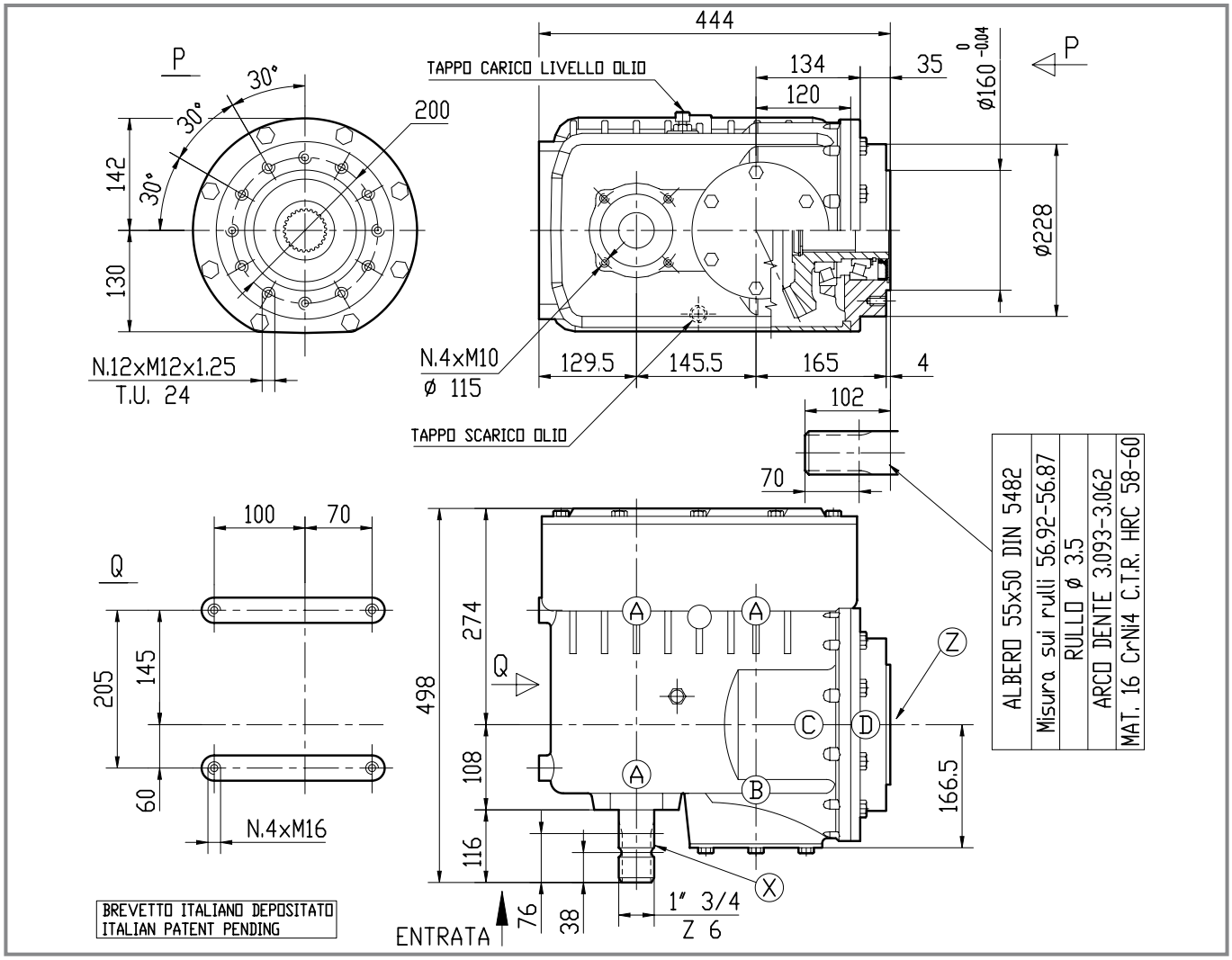
Disponibili rapporti di riduzione compresi tra 1.24 e 5.28
Available ratioes 1.24 to 5.28

MZ-817F

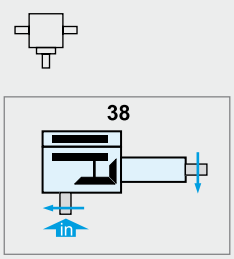
2.01

kg	[kg]	100

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.66	540	80.9	110			std	X	38
	1.92								
	2.97	1000							
	3.20								



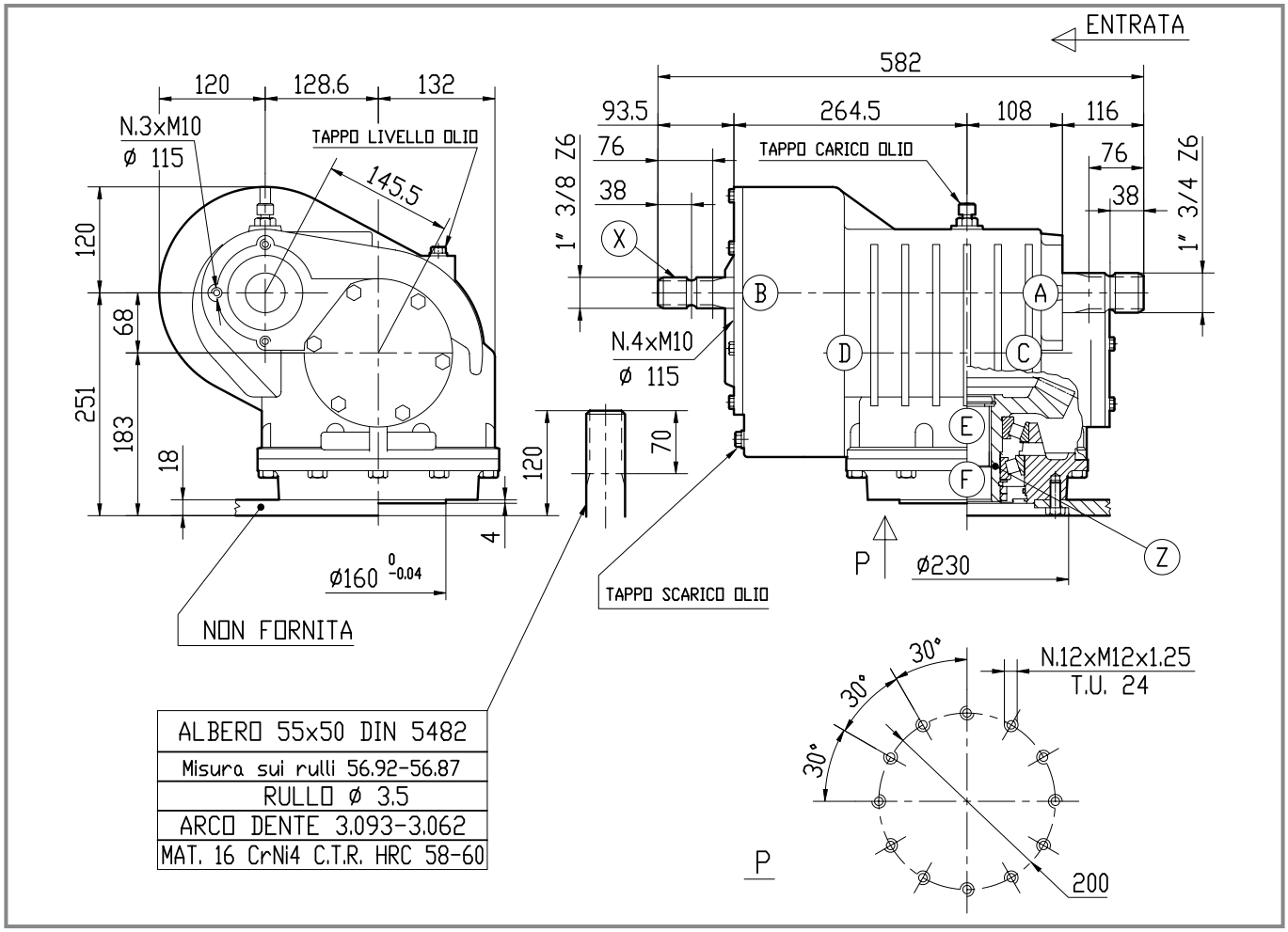
Disponibili rapporti di riduzione compresi tra 1.24 e 5.28
Available ratioes 1.24 to 5.28

MV-819F

2.02

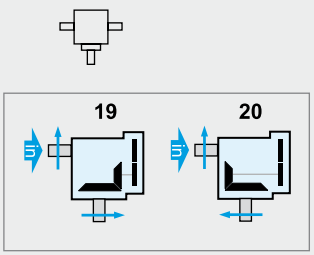
kg	[kg]	94

OIL	[l]	



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	1.67	540	70.0	95.0			std	X
	2.57							
	2.97	1000	77.0	105				

19-20



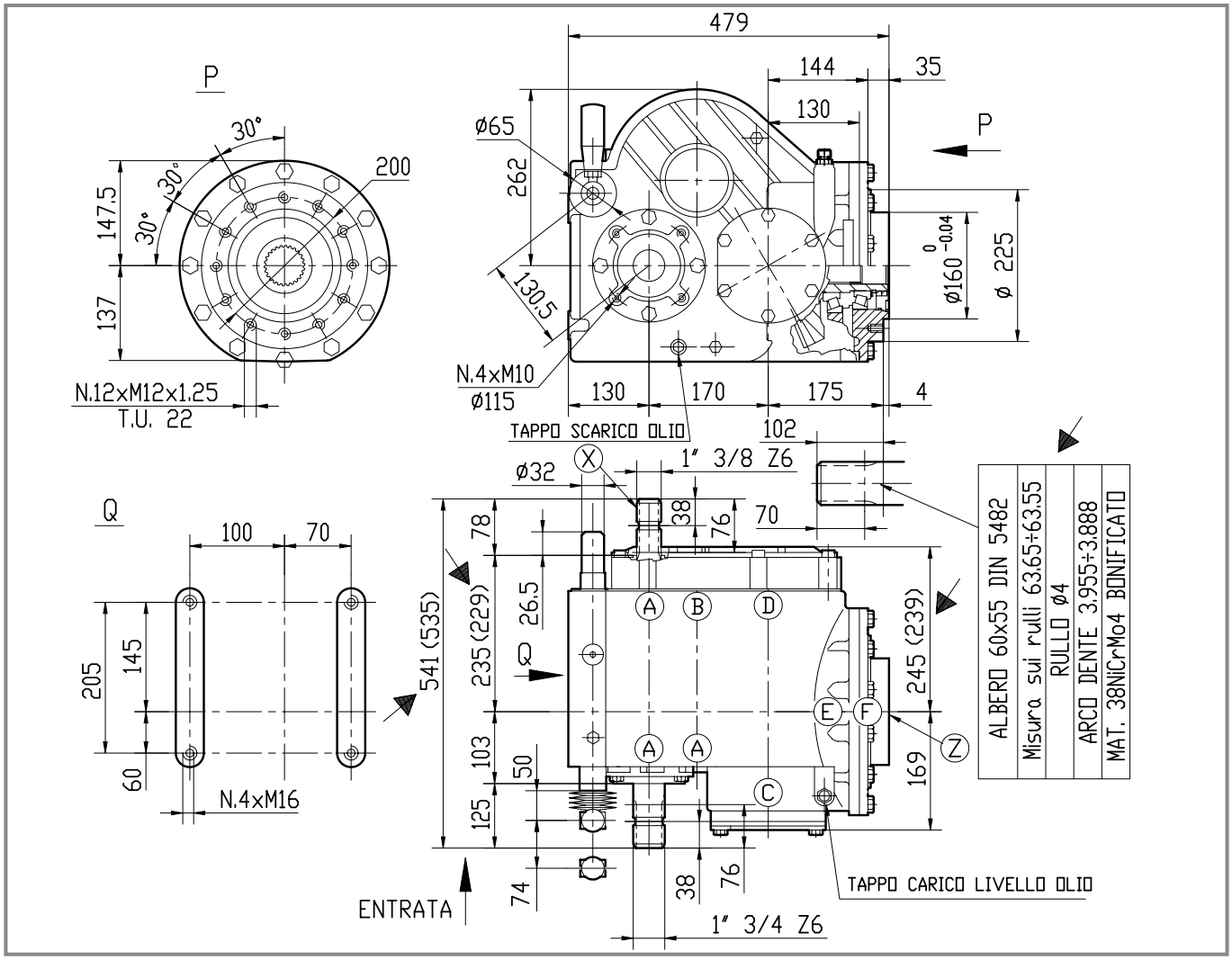
Disponibili rapporti di riduzione compresi tra 1.24 e 5.28
Available ratioes 1.24 to 5.28

DZ-821F

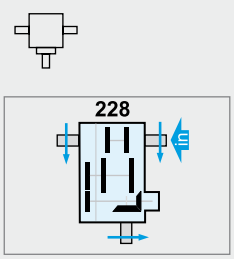
2.01

kg	[kg]	148

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**2.44**	1000	**95.6**	*130*			std	X	228
	2.98								
	3.67								



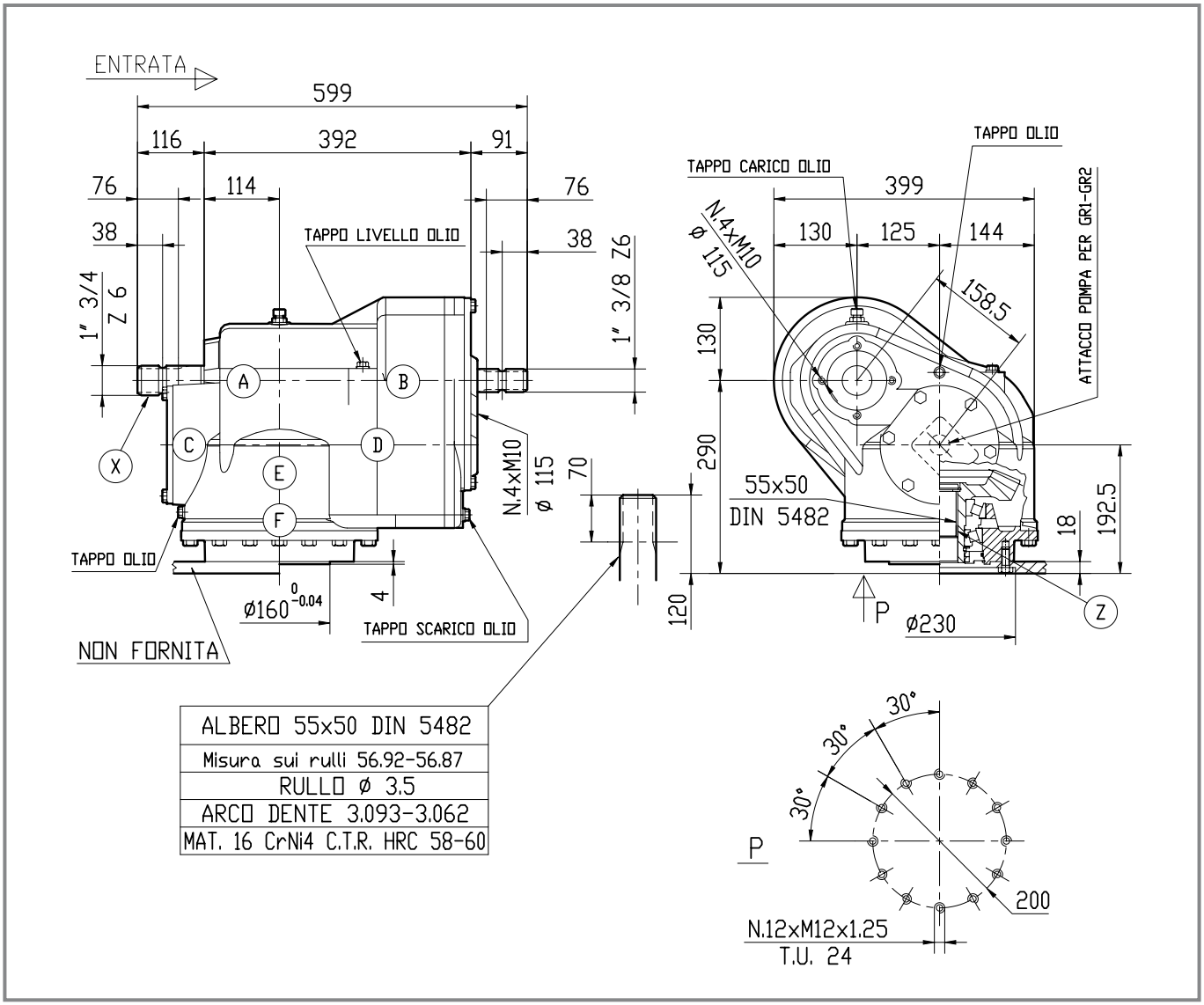
Disponibili rapporti di riduzione compresi tra 1.25 e 5.91
Available ratioes 1.25 to 5.91

MV-824F

2.02

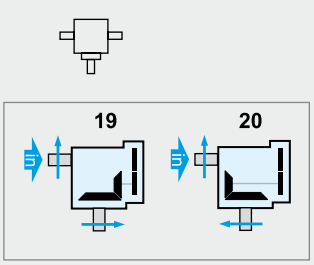
kg	[kg]	110

OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	1.64	540	95.5	130			std	X
	2.29							
	3.19	1000	99.0	135				

19-20



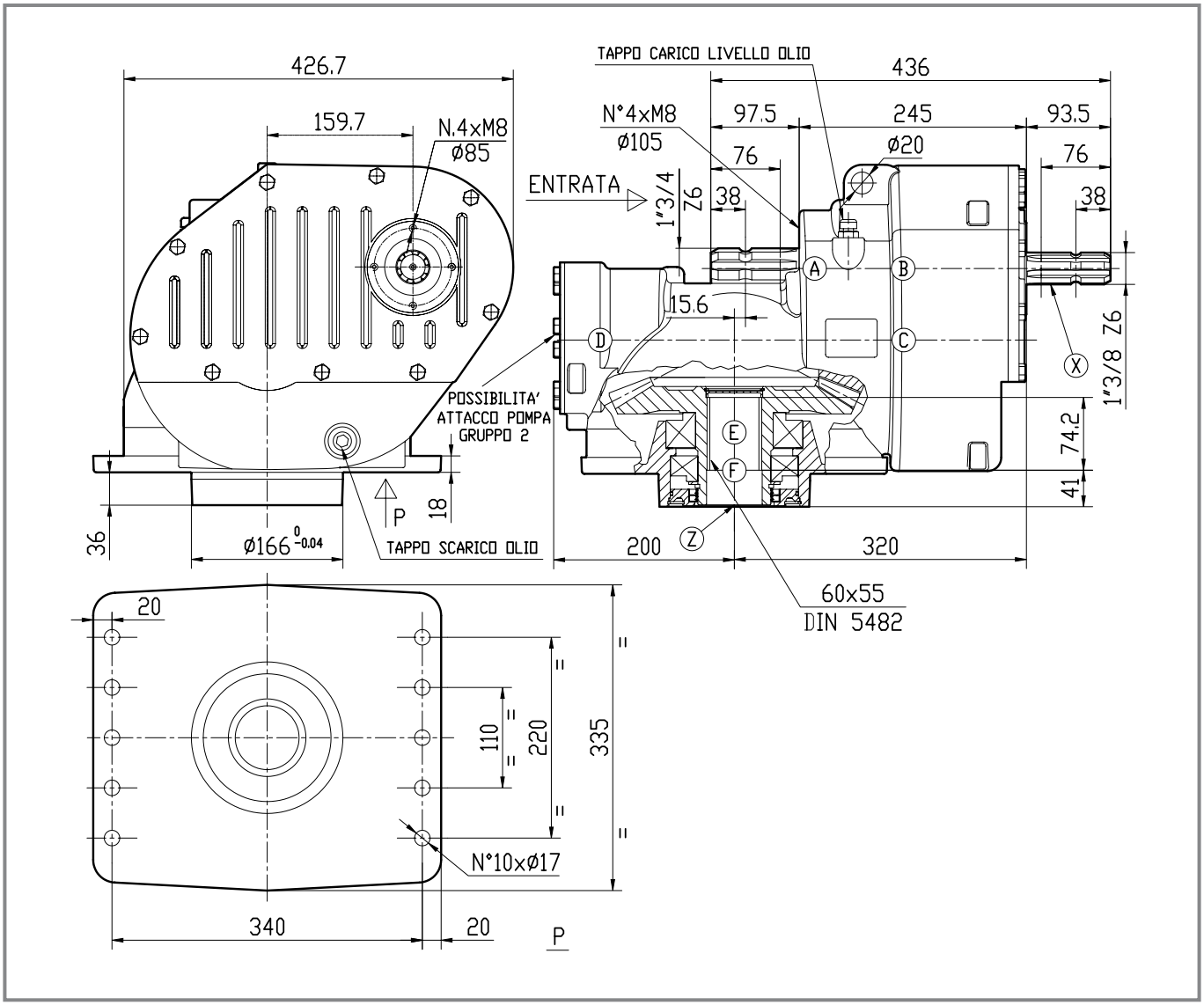
Disponibili rapporti di riduzione compresi tra 1.17 e 5.27
Available ratioes 1.17 to 5.27

MV-826F

2.02

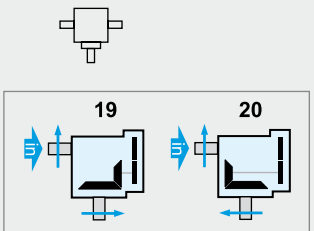
kg	[kg]	122

OIL	[l]	-



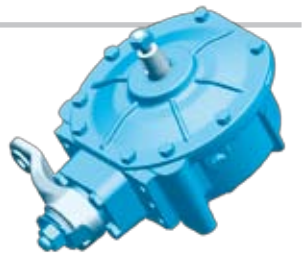
i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	3.35	1000	147	200			std	X	19-20

Disponibili rapporti di riduzione compresi tra 2.30 e 4.21
Available ratioes 2.30 to 4.21



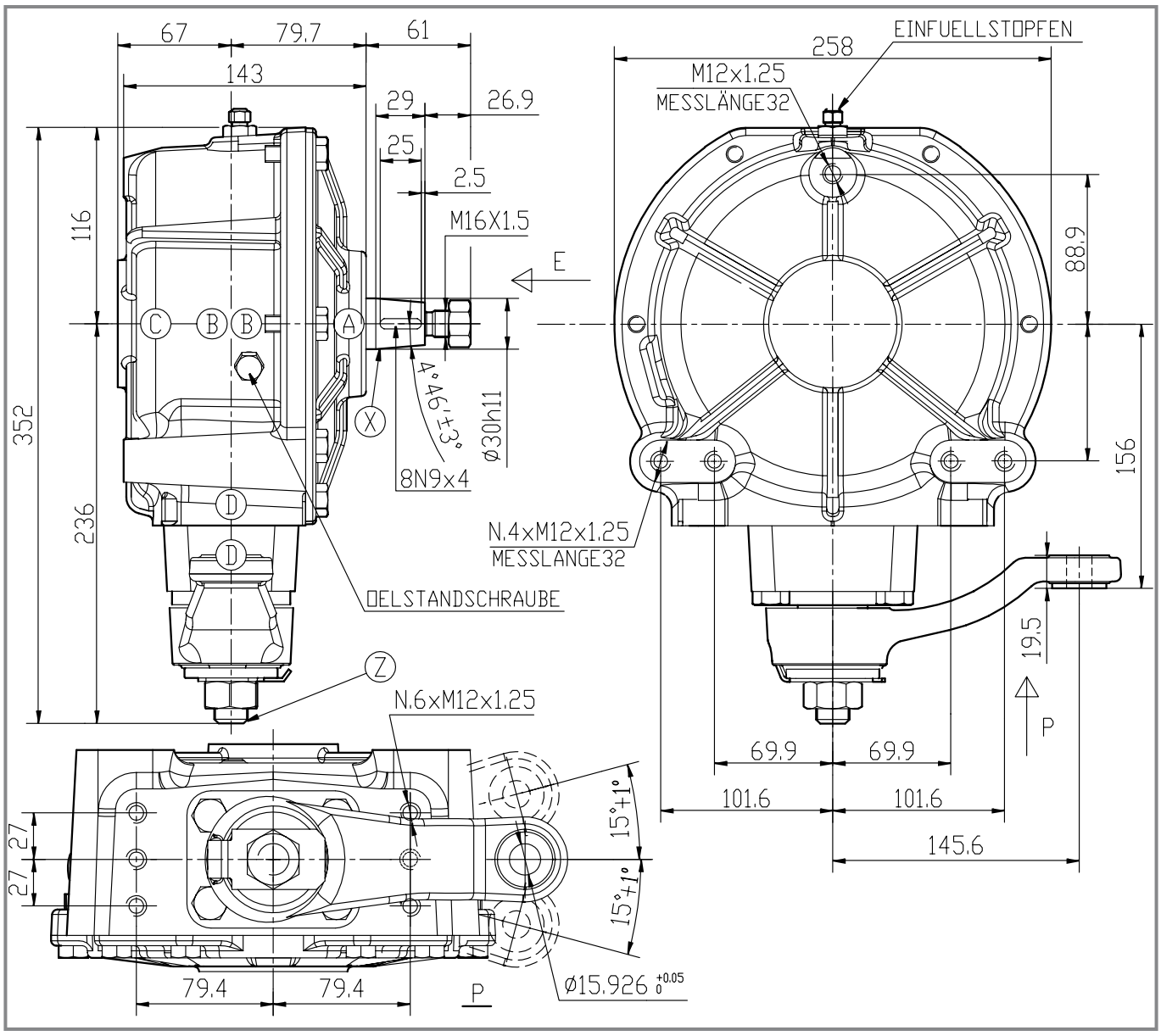
OS-861

4.08



kg	[kg]	22.4

OIL	[l]	-



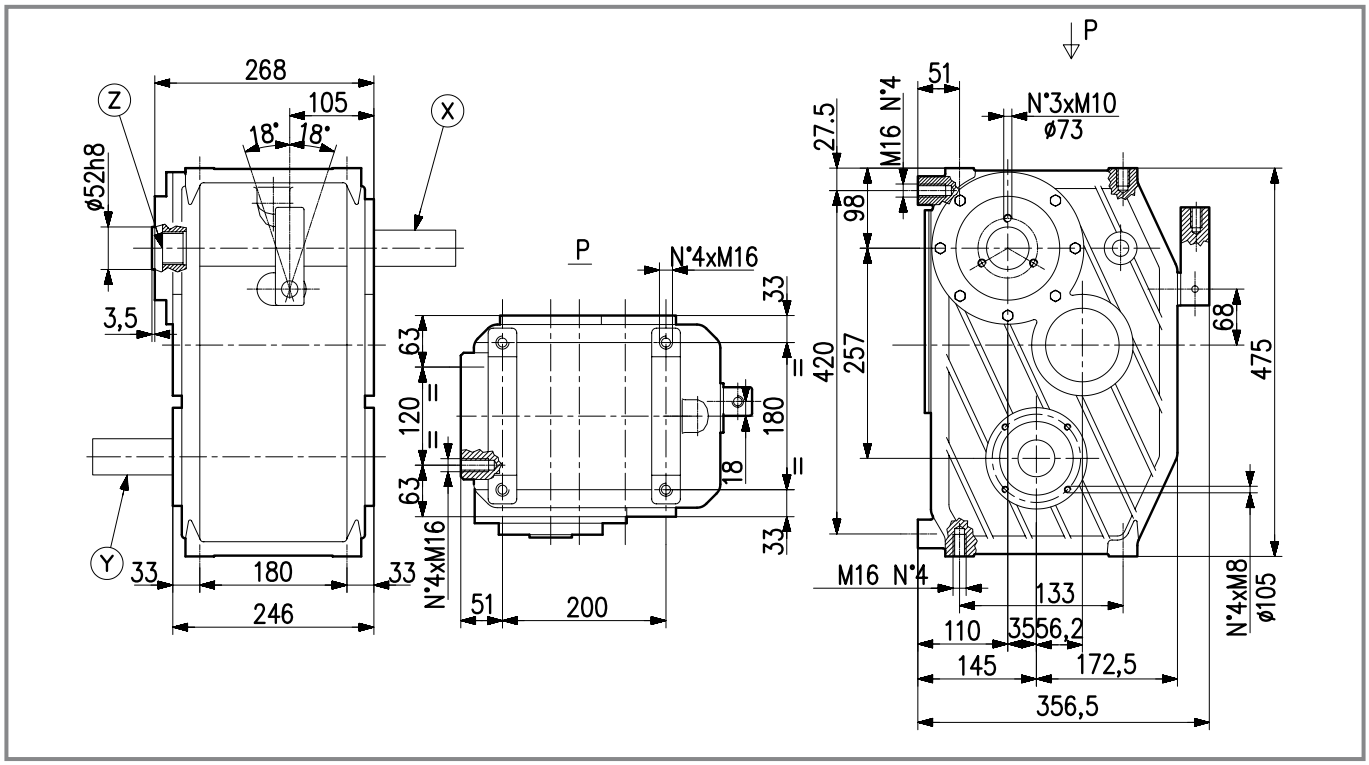
i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
-	550÷600	-	-	-	-	-	-	-

C-3A

4.06

kg	[kg]	100

OIL	[l]	9.3



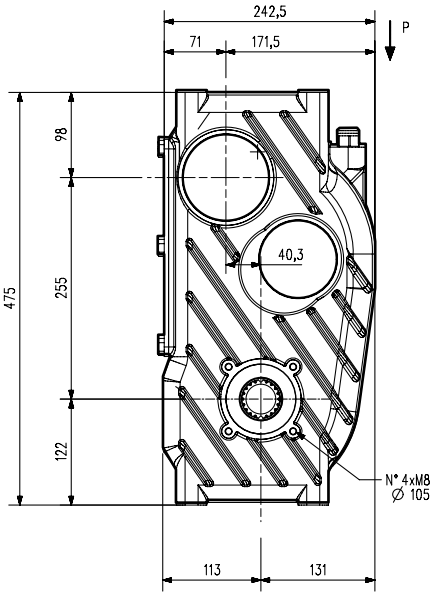
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
	1.00 - 1.80	540	**92.0**	*125*	-	-	std	X	-
	1.00 - 1.50	540	**92.0**	*125*	-	-			-
	1.28 - 2.30	1000	**92.0**	*125*	-	-	std	X	-
	1.80 - 2.73	1000	**92.0**	*125*	-	-			-
	1.80 - 3.20	1000	**92.0**	*125*	-	-			-
	1.00 - 1.80	540	**110**	*150*	-	-	std	X	-
Rinforzati	**1.25 - 1.67**	540	**110**	*150*	-	-			-
	1.57 - 3.26	1000	**110**	*150*	-	-			-

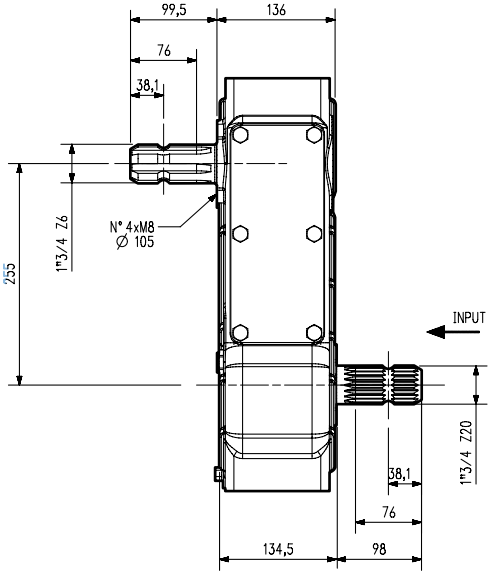
C-3A M

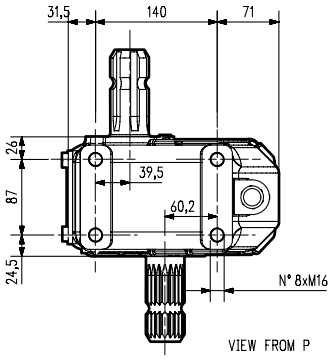
4.06

kg [kg]	50

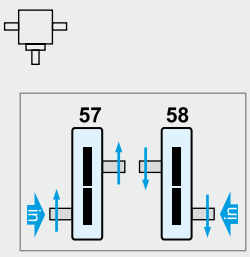
OIL [l]	-







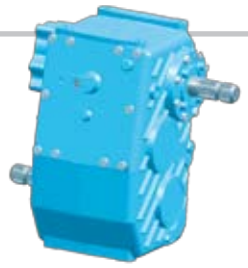
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.80	540 1000	110	150	358	-	std	Z	57-58



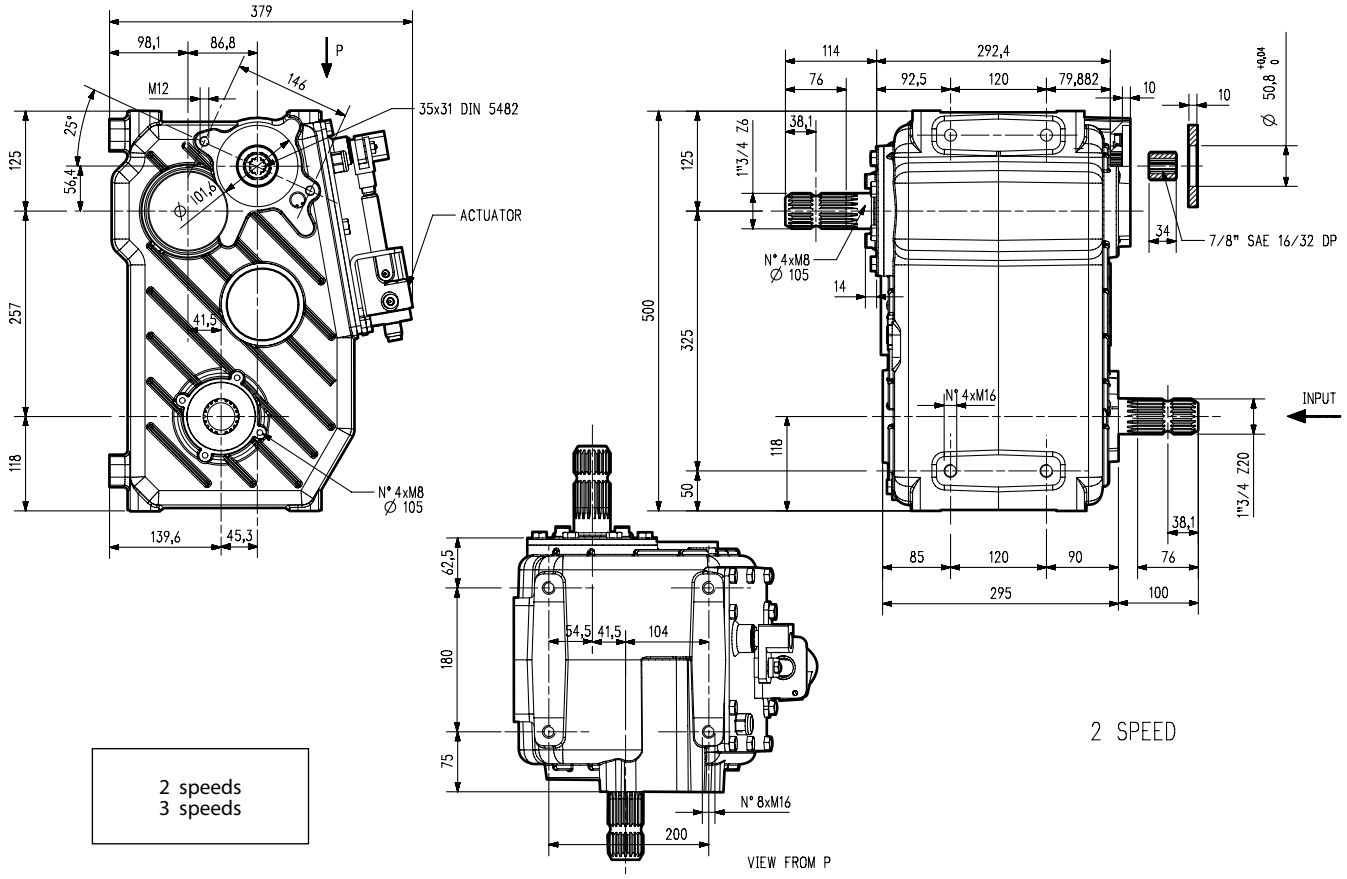
comer industries
gearboxes

C-3A R

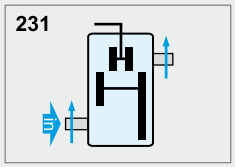
4.06



kg	[kg]	105 (2 speeds) 116 (3 speeds)	OIL	[l]	-



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.00/1.50	540/1000							
	1.00/1.80	540/1000	132.3	180	-	-	std	Z	231
	1/1.50/2.25	540/1000							



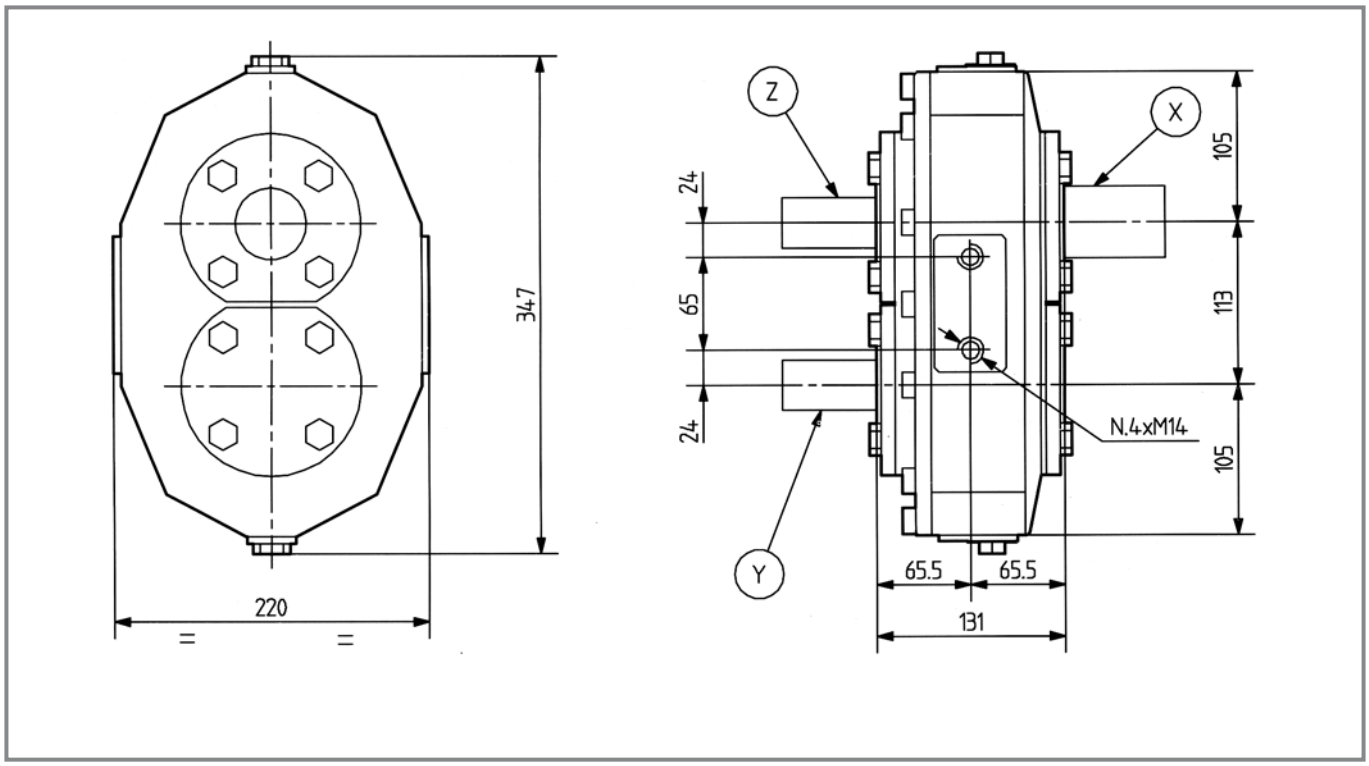
MR-90

0.00

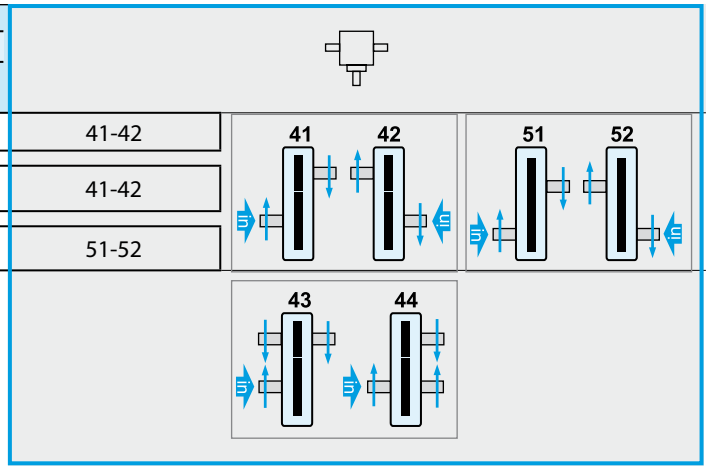
Code **95090**

kg	[kg]	27.5

OIL	[l]	0.8



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
—	**1.00**	540	**62.6**	*85.0*	1071	*9921*	std	X/Y
M	**1.90**	540	**64.0**	*87.0*	577	*5344*	std	X
R	**1.90**	540	**31.6**	*43.0*	1030	*9535*	std	Y

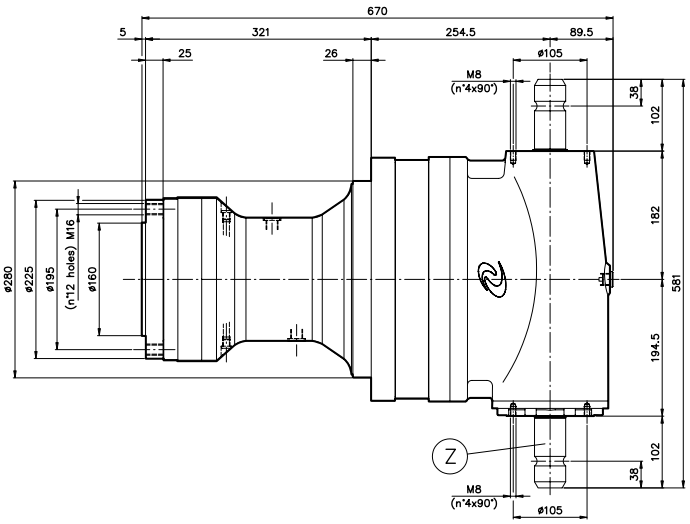


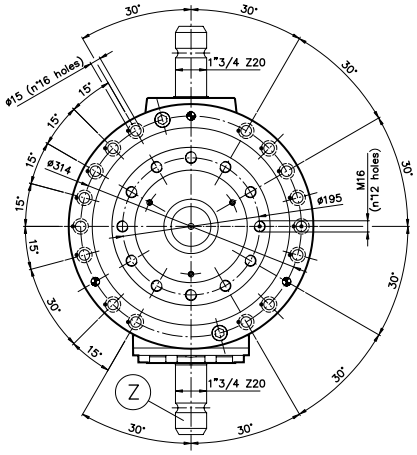
PGA-1202

4.06

kg	[kg]	180

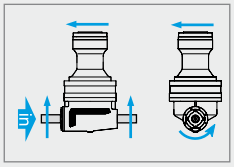
OIL	[l]	11





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**13.90**	540	-	-	12800	*113293*	std	Z
	16.10		-	-	11600	*102672*		
	19.40		-	-	9000	*79659*		

V37

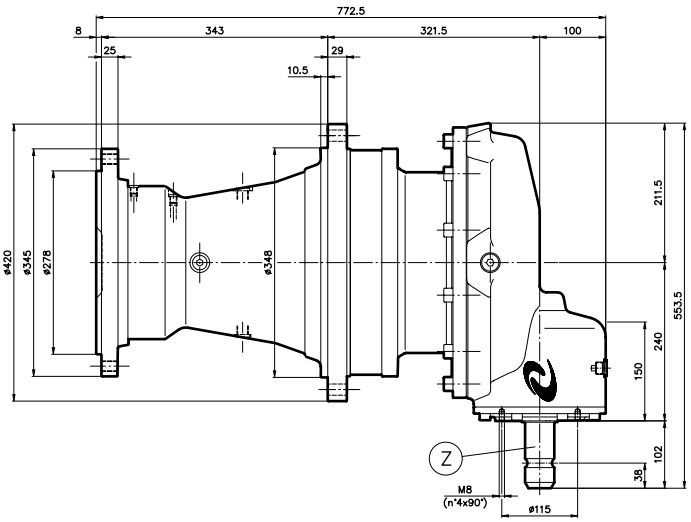


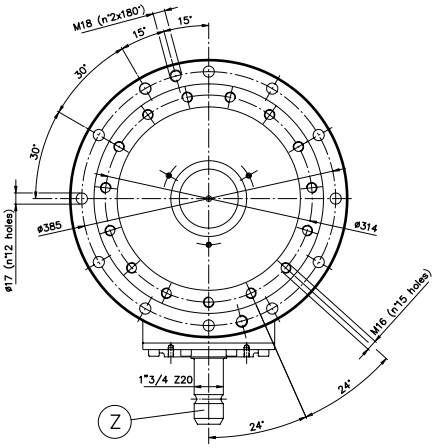
PGA-1602

4.06

kg	[kg]	280

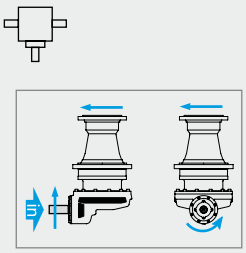
OIL	[l]	15.5





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**16.13**	540	-	-	15700	*138961*	std	Z
	21.10		-	-	12010	*106301*		

V37



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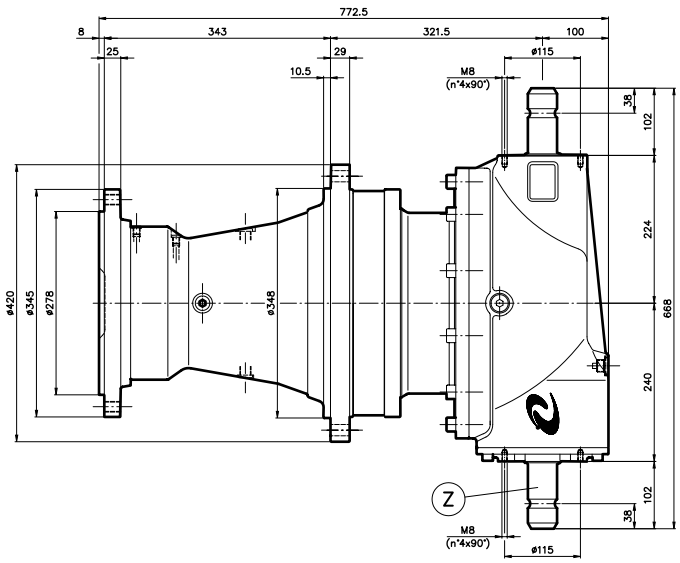
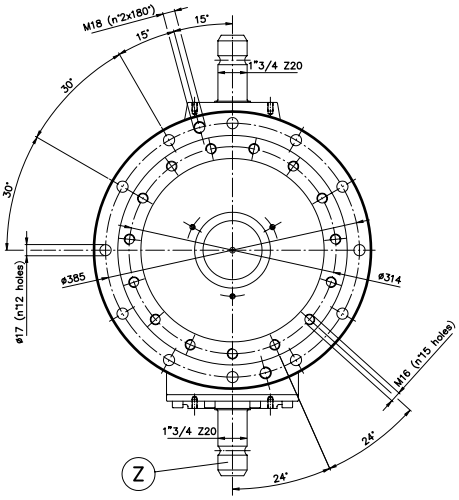
PGA-1602

4.06

kg	[kg]	265

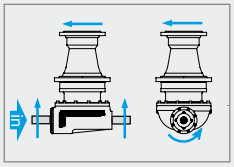
OIL	[l]	19.7





	i	rpm	kW	HP	Nm	lb.in.	std spec	Input
R	**13.40***	540	-	-	1750	*162129*	std	Z
	16.13		-	-	15700	*138961*		
	18.20		-	-	13500	*119489*		
	21.10		-	-	12010	*106301*		

V37



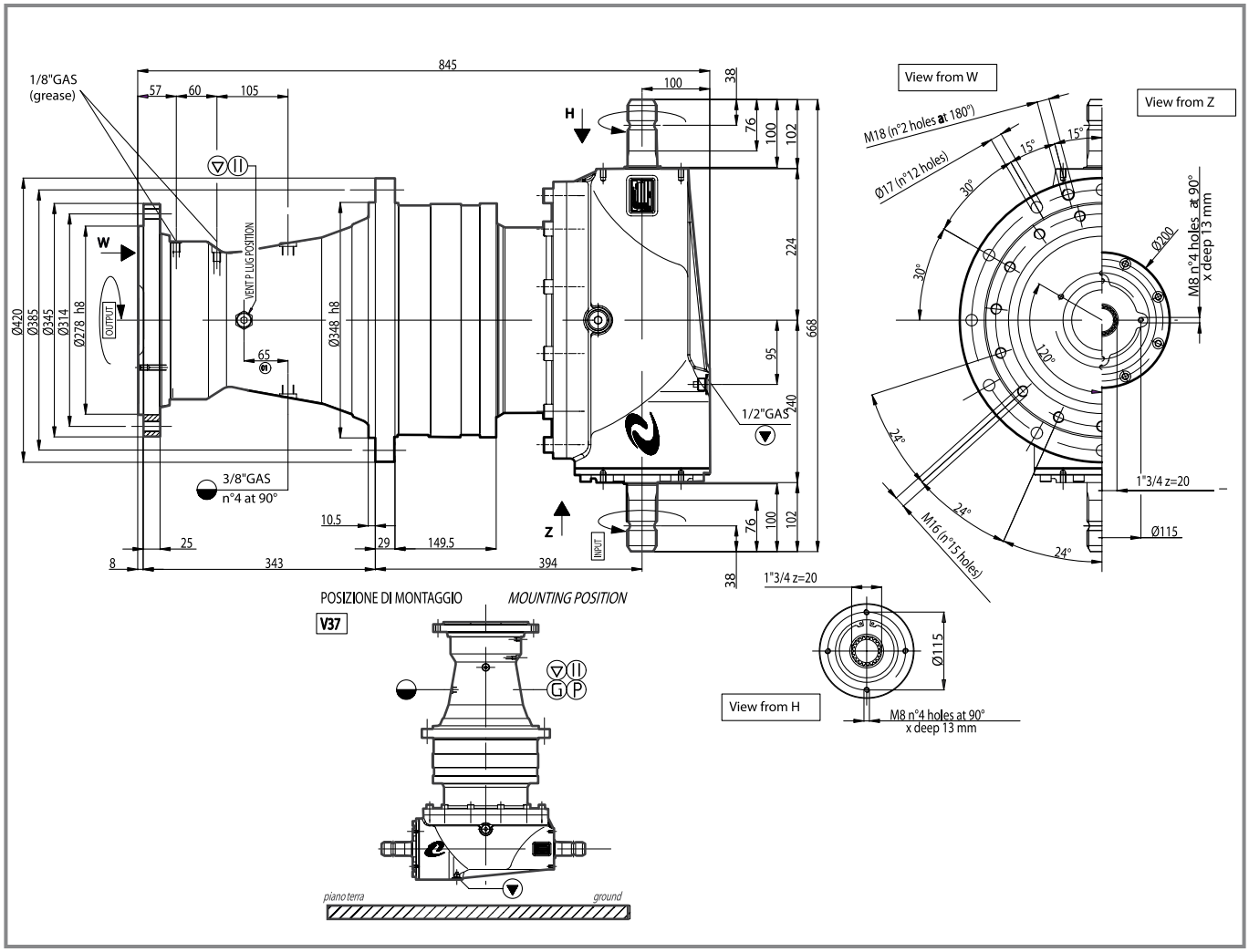
* versione 4 satelliti / *version 4 satellites*

PGA-1603

4.06

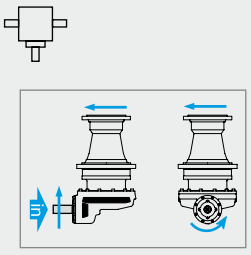
kg	[kg]	270

OIL	[l]	19.7



	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	**25.89**	540	-	-	2000	*185291*	std	Z	V37

Versione a 3 stadi / *3 stages version*

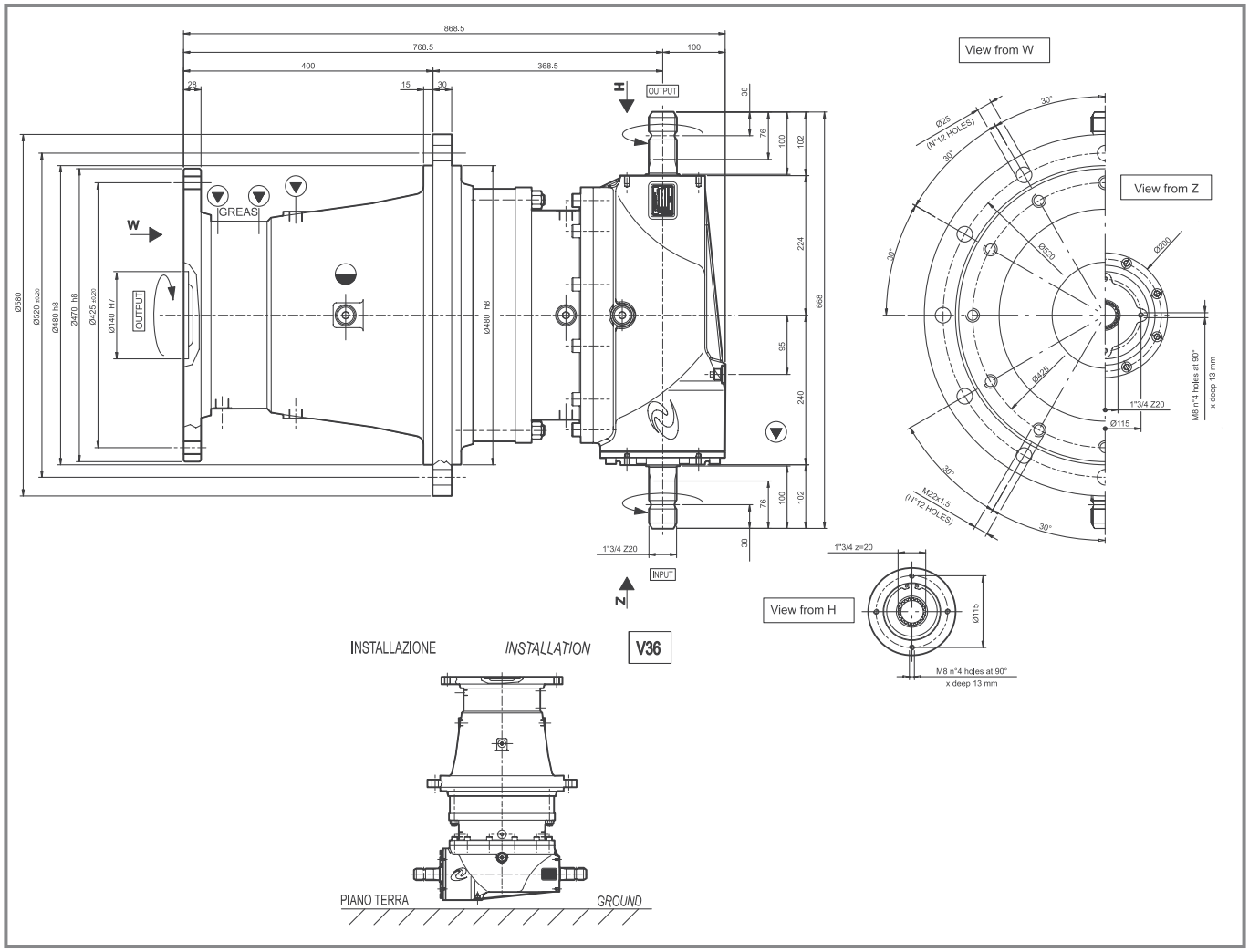


PGA-2502

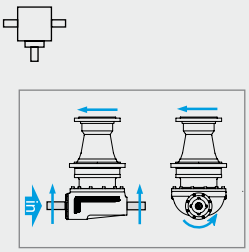
4.06

kg	[kg]	420

OIL	[l]	-



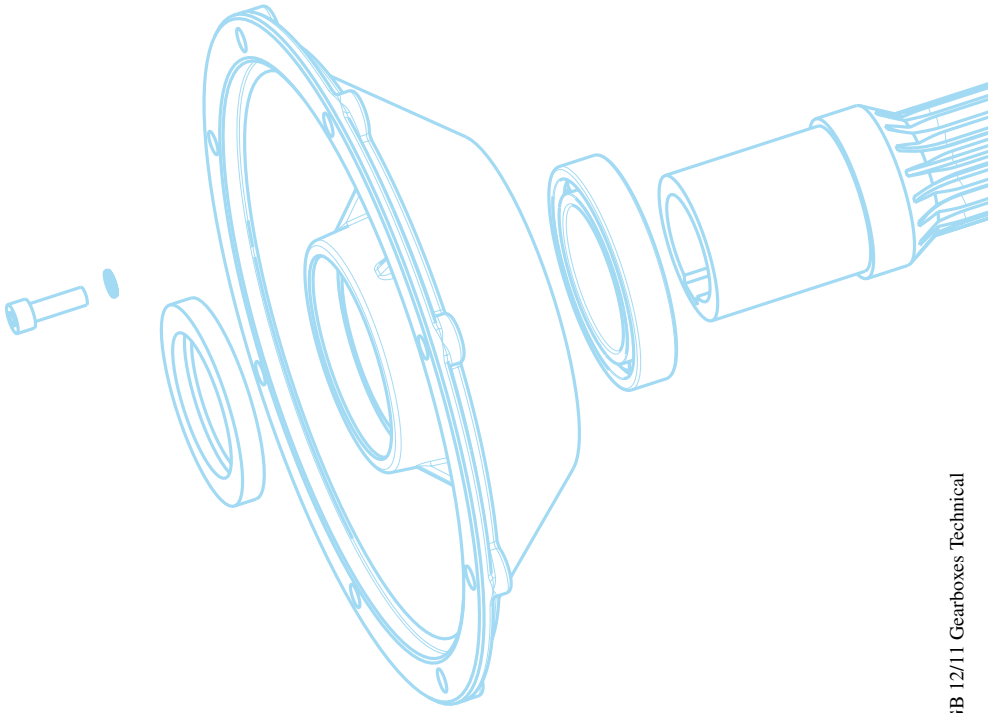
	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	13.6	540	-	-	2400	222349	std	Z	V37
	19.6				2200	203820			



Note

Note

Note



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