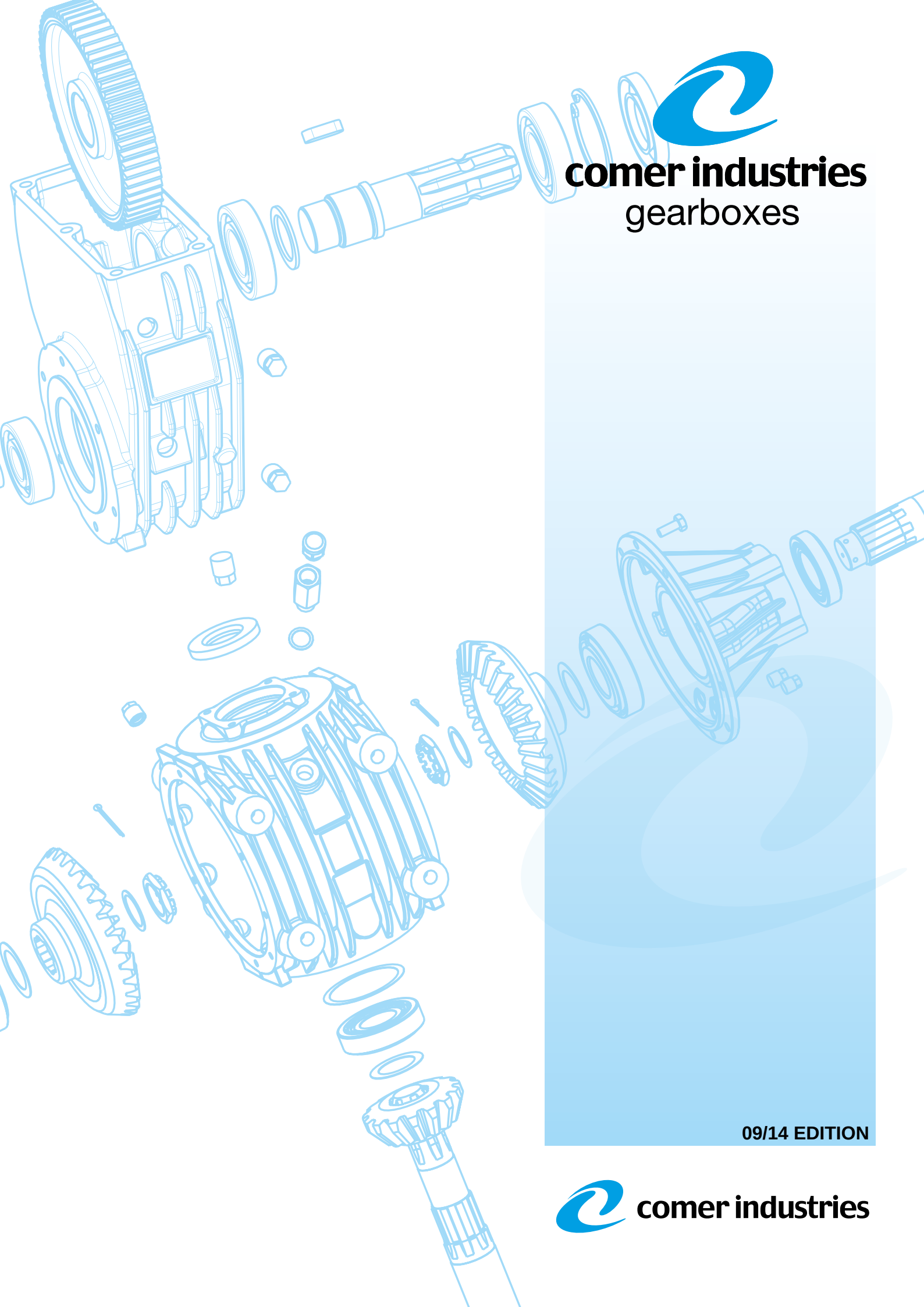




comer industries
gearboxes

09/14 EDITION



comer industries

Profilo dell'azienda / *Company profile*

Centro ricerche di mecatronica / *Mechatronics research center*

Prodotti / *Products*

Applicazioni / *Applications*

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	LL-5L code 104	 11.0 kW	15
	LTV-14F code 113	 29.4 kW	16
	L-25A code 124	  11.0 kW	17
	L-25C code 124	 11.0 kW	18
	L-25J code 124	 11.0 kW	19
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	LF-32A code 132	 44.2 kW	21
	LF-139A	 66.2 kW	22
	LF-140J	 44.0 kW	23
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	L-150A/B L-150J	  11.0 kW	25
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	TF-26A code 266	 66.2 kW	39
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	TL-269E	 81.0 kW	47
	TLZ-270J	 47.8 kW	48
	TV-274A	 58.9 kW	49
	T-276 A	 73.5 kW	50
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	T-278D	 44.2 kW	52
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	TP-310E	 31.6 kW	74
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	TL-312D	 53.7 kW	82
	TP-312E	 55.9 kW	83
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	L-319J	 6.8 kW	87
	L-320A	 33.0 kW	88
	L-323J	 14.0 kW	89
	L-324J	 6.0 kW	90
	T-329D	 121 kW	91
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	T-332A	 184 kW	93
	T-334D	 46.0 kW	94
	FR-507 code 507	 36.0 kW	95
	FR-522 code 522	 36.0 kW	96
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	A-4F code 603	 55.0 kW	103
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	D-16 code 716	 21.7 kW	125
	D-21A code 721	 41.2 kW	126
	D-21B code 721	 41.2 kW	127
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	D-732A	 59.0 kW	131
	DP-732A	 59.0 kW	132
	DV-733F	 132.5 kW	133

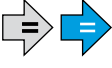
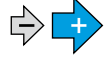
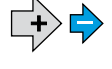
	Tipo e codice Type & Code	Applicazioni Applications	Pag. Page
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	MZ-817F	 80.9 kW	149
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LEGENDA - LEGEND

	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

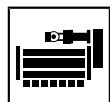
APPLICAZIONI VARIE - MISCELLANEOUS APPLICATIONS



Applicazioni varie
Miscellaneous applications

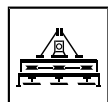
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MACCHINE PER LA PREPARAZIONE DEL TERRENO - MACHINERY FOR LAND PREPARATION



Trinciastocchi
Flail mowers

1.01



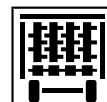
Falciadistruggierba
Rotary mowers

1.02



Decespugliatrici
Rotary cutters

1.03



Spandiletame
Manure spreaders

1.04



Decespugliatori idraulici
Hydraulic cutters

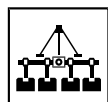
1.05

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



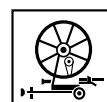
Spandiconcime
Fertilizer spreaders

3.02



Pompe centrifughe
per irrigazione
*Centrifugal pumps
for irrigation*

3.03



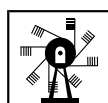
Irrigatori a bobina
Irrigation reels

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



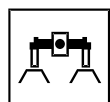
Carri autocaricanti
Self loading trailers

4.03



Presse raccogliatrici
Balers

4.04



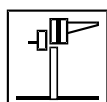
Spandifieno rotativi
Rotary tedders

4.05



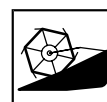
Carri miscelatori
Feed mixer machines

4.06



Molini a martelli
Hammer mills

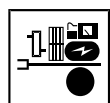
4.07



Falciatrici, caricatrici se-
moventi 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

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

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

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 machinery, construction equipment, industrial and renewable energy applications worldwide.

Comer Industries Headquarters is based in Reggio (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 Reggio (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.



Il Centro Ricerche di Meccatronica (CRM), realizzato da Comer Industries nel 1996 a Reggiolo (Reggio Emilia), è dedicato alla ricerca applicata e all'innovazione ed effettua lo sviluppo, la sperimentazione e la prova dei prodotti dell'azienda.

Il CRM si estende su una superficie coperta di 1.500 m², con 11 celle di sperimentazione e prova 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 raccogliere dati essenziali per la progettazione del nuovo prodotto e la definizione delle soluzioni di meccatronica da sviluppare. Nel 2012 sono stati acquisiti due nuovi strumenti: banco prova polveri e la cella climatica che riproduce il ciclo di lavoro variabile. L'attività svolta dal Centro permette all'azienda di mettere a punto i prodotti e di comprimere i tempi di esecuzione dei prototipi; ai clienti riduce il time to market per il lancio delle nuove macchine.

Il Centro Ricerche di Meccatronica è inserito dal 2002 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, 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, e si pone l'obiettivo di creare un ponte concreto tra il mondo della ricerca universitaria e quella industriale.

Il Centro, in cui operano 12 ingegneri con elevate competenze specialistiche, nel 2013 ha completato 198 commesse per circa 37.000 ore di prova.

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)
- Test di omologazione di motori elettrici asincroni trifase per il settore eolico (motori elettrici con potenza fino a 7,5 kW e tensione di alimentazione da 220 V a 690 V)
- Prove statiche (misura dei giochi, della rigidità 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 rigidità, verifica dei limiti di resistenza statica e a fatica)
- Prove sul campo (registrazione dei parametri di funzionamento della macchina nelle varie condizioni di lavoro)
- Prove di temperatura dei materiali e dei riduttori in condizioni ambientali estreme (riduttori destinati alle applicazioni eoliche e alle macchine semoventi)
- Benchmarking (confronti con prove di funzionalità, rumorosità, riscaldamento, durata, crash test, resistenza a vibrazioni, ecc...)
- Omologazioni motori elettrici
- 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.

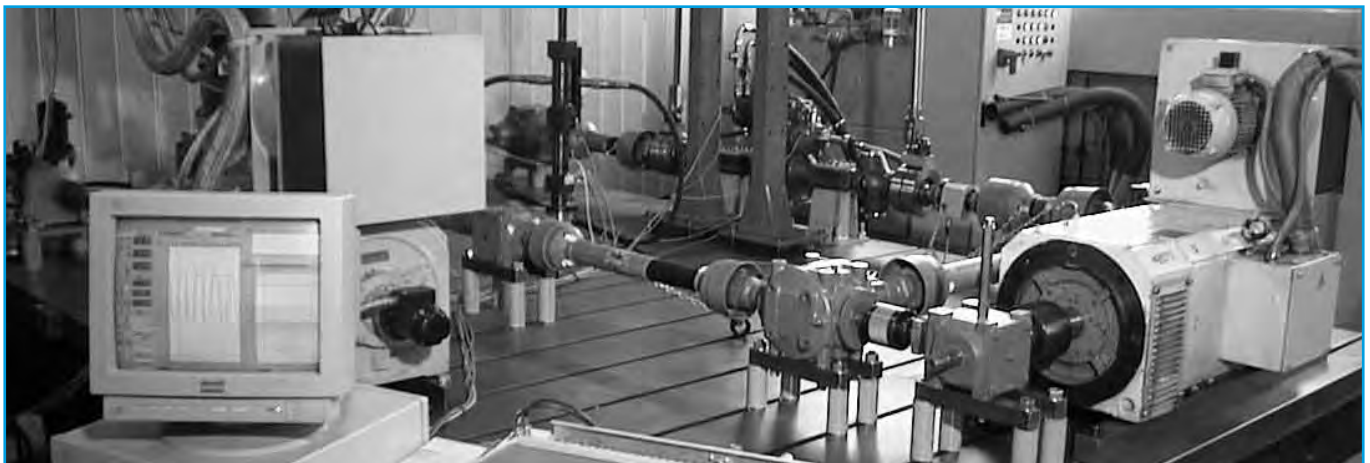
The Mechatronics Center, covering an area of 1,500 m² (16,000 ft²), has eleven test rooms, totally acoustics insulated, equipped with cutting edge devices and simulators that reproduce machine operating environment. Technologies used by the Center allow Comer Industries to acquire accurate data, essential for new product design and definition of mechatronic solutions to be developed.

In 2012, Comer Industries invested in technologies acquiring a testing bench for pulvers and the climatic cell reproducing the variable work cycle. 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 employs 12 highly qualified engineers and in 2013 carried out 37,000 hours of testing and completed 198 customer's requests.

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)
- Homologation tests for three-phase asynchronous electric motors for the wind-energy sector (electric motors with a power output of up to 7.5 kW and a power voltage between 220 V and 690 V)
- 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)
- Temperature tests of materials and transmissions in severe climatic conditions (transmissions for wind-energy sector and self-propelled machines)
- Benchmarking (comparisons of functionality tests, temperature tests, crash tests, lifetime...)
- Electric motors homologation
- 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 mecatronica 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 di 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

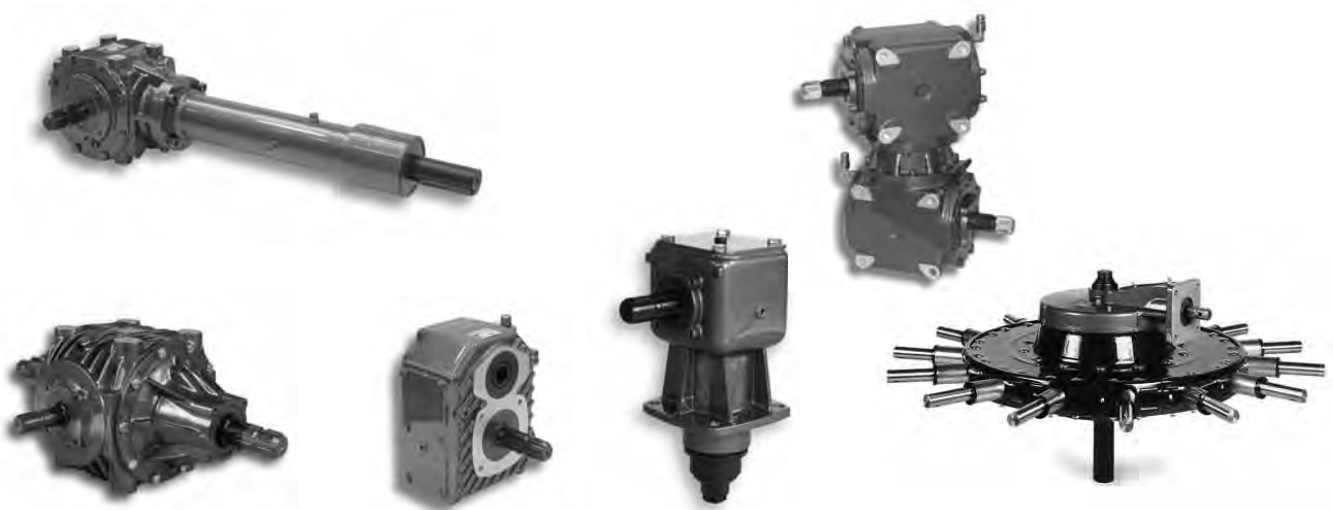
Steel cold-forming according: UNI EN 10149

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 trattori 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

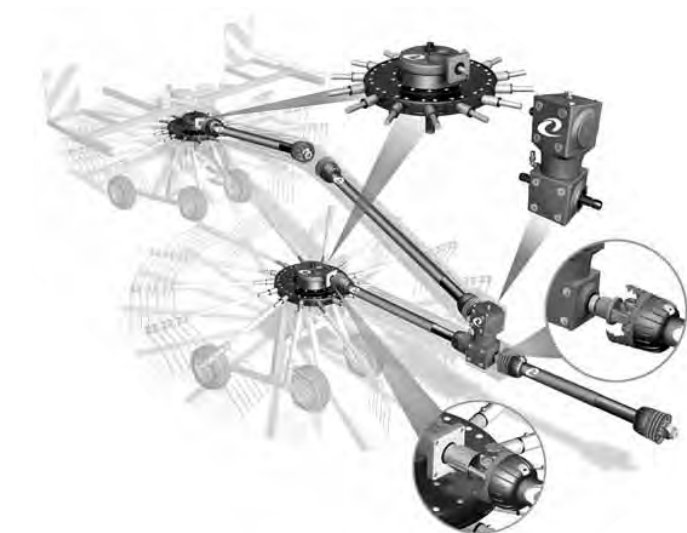
Macchine per il giardinaggio professionale e la manutenzione del verde

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



0.00



Code **104**



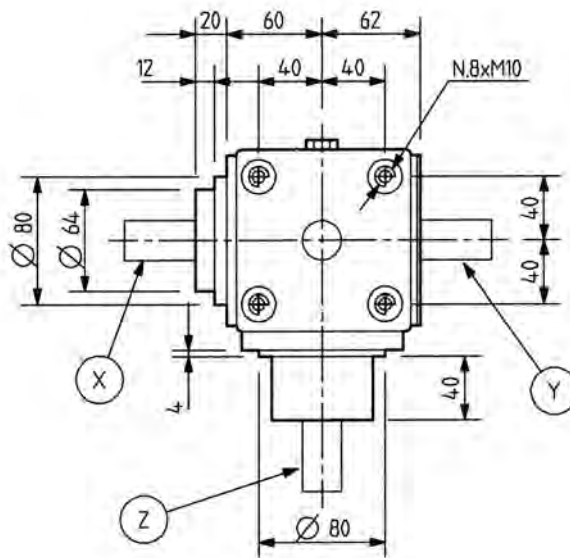
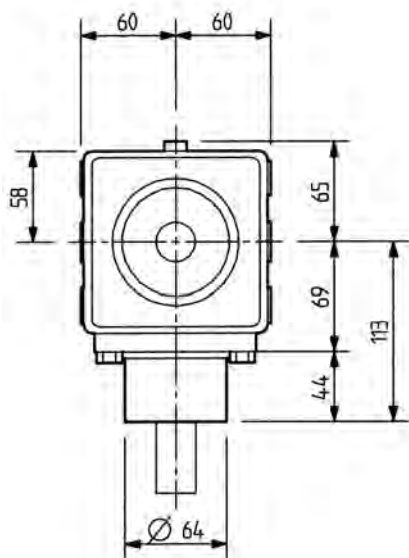
[kg]

8

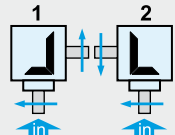
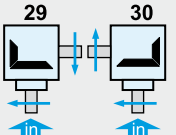
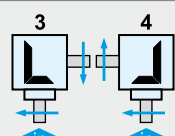
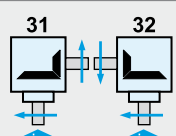
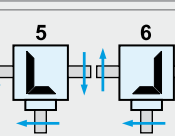
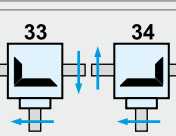
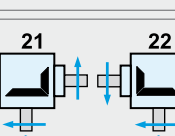
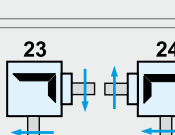


[l]

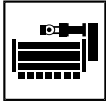
0.4



	i				std spec		Input
		rpm	kW	HP	Nm	lb.in.	
M	1.00	540	11.0	15.0	189	1751	std Z
	1.35		9.9	13.5	126	1167	X-Y
	1.90		11.0	15.0	99	921	X-Y-Z
	2.78	540	5.2	7.0	31	294	X-Y
	2.91		5.1	6.9	-	-	X
R	3.00		5.1	7.0	30	278	X
	1.35	540	8.1	11	187	1733	std Z
	1.90		7.0	9.5	227	2107	
	2.78		2.9	4.0	140	1298	

1-2 / 3-4 / 5-6		
21-22 / 23-24 31-32 / 33-34		
21-22 / 23-24		
21-22		
21-22 / 23-24		

LL-5L



1.01

Code **104**

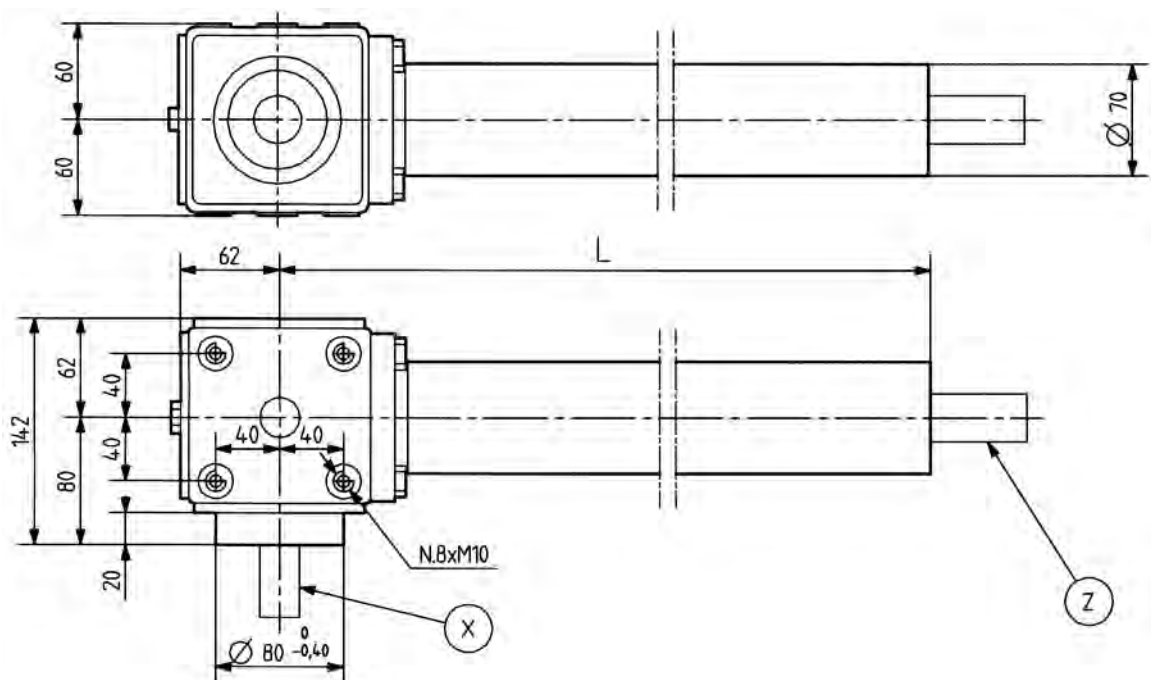
[kg]

15



[1]

—



		i	 rpm	 kW	 HP	 Nm	 lb.in.	std spec	 Input	L (mm)	Code	
		1.90	540	11.0	15.0	99	921	std	X	530	104.419	21-22
										615	104.452	



Code **113**

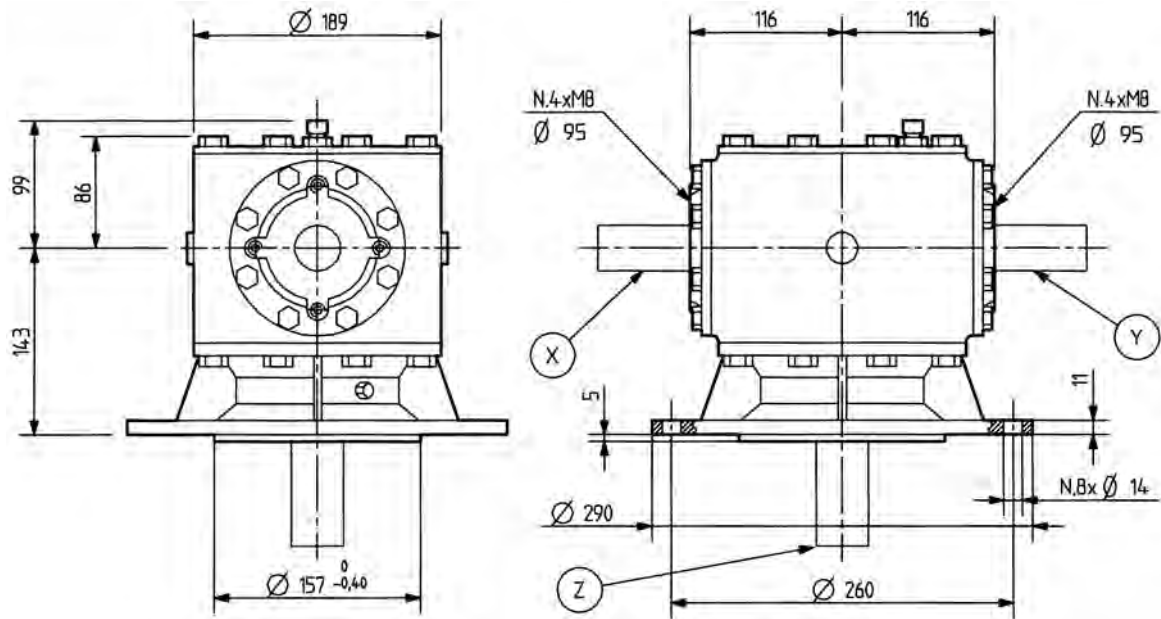
[kg]

31



[1]

1.15



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

L-25A

Code **124**



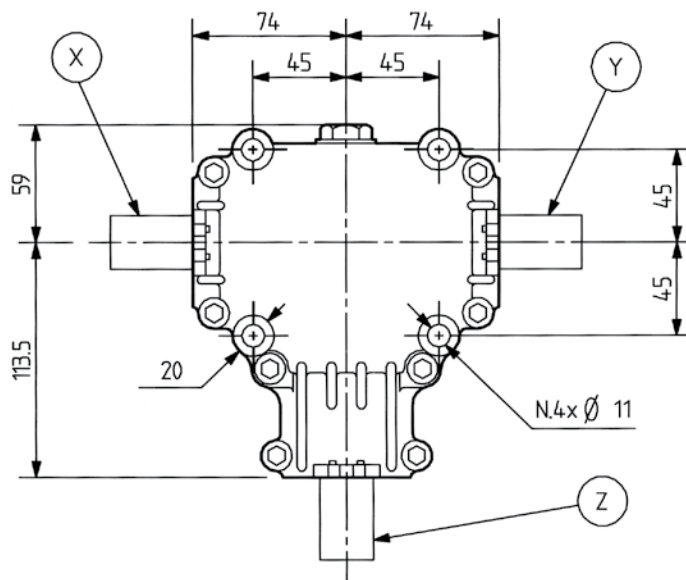
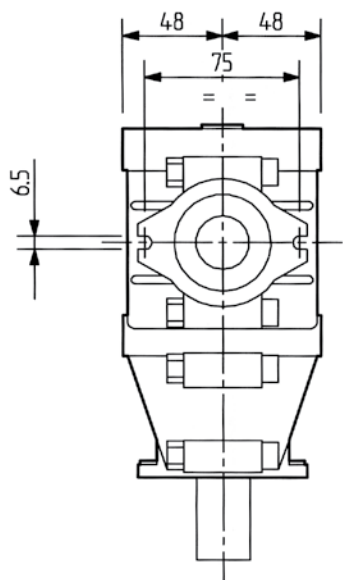
0.00

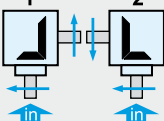
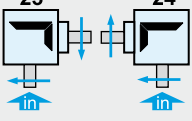
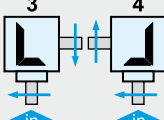
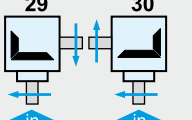
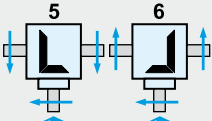
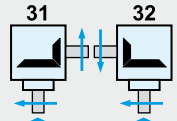
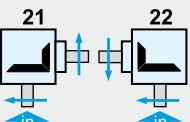
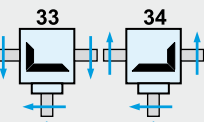


3.02
Vers. L25-B



	[kg]	4.1		[l]	0.4
--	------	-----	--	-----	-----



	i						std spec					
		rpm	kW	HP	Nm	lb.in.		Input				
M	1.00	540	11.0	15.0	189	1751	std	Z	1-2 / 3-4 / 5-6			
	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				
	3.30		3.7	5.0	20	183	std	X-Y	21-22 / 23-24			
	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.

NOTA: Disponibile versione con ruota libera.
NOTE: Available version with free wheel.

L-25C



3.02

Code **124**



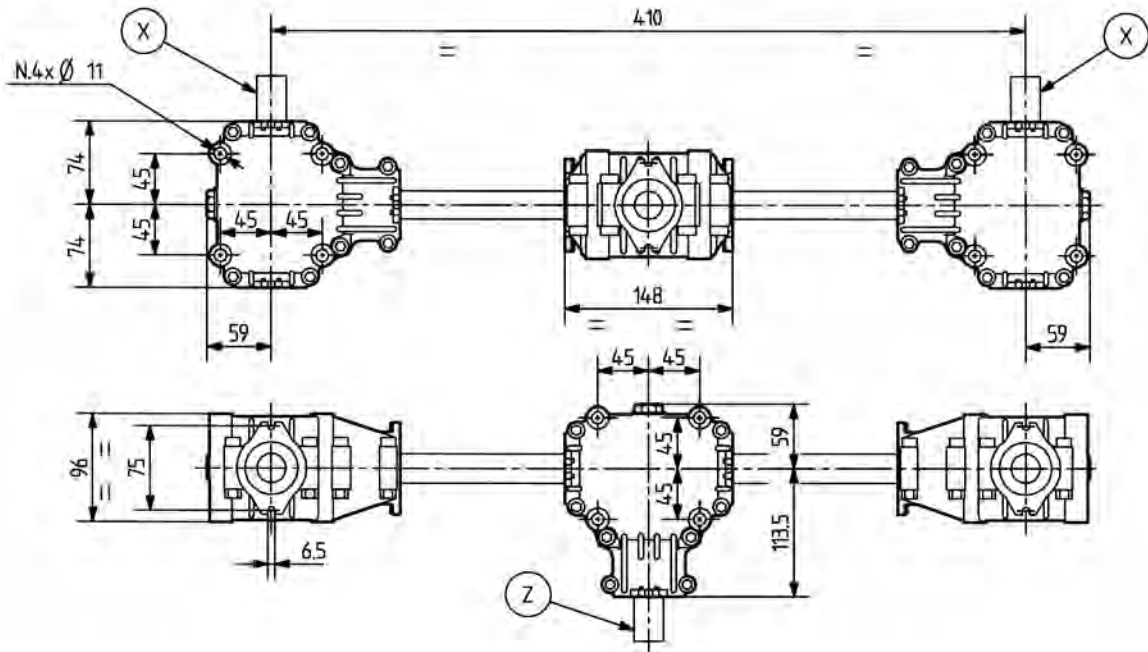
[kg]

17

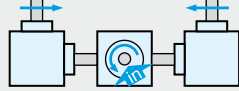


[l]

0.35x3



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



223

L-25J

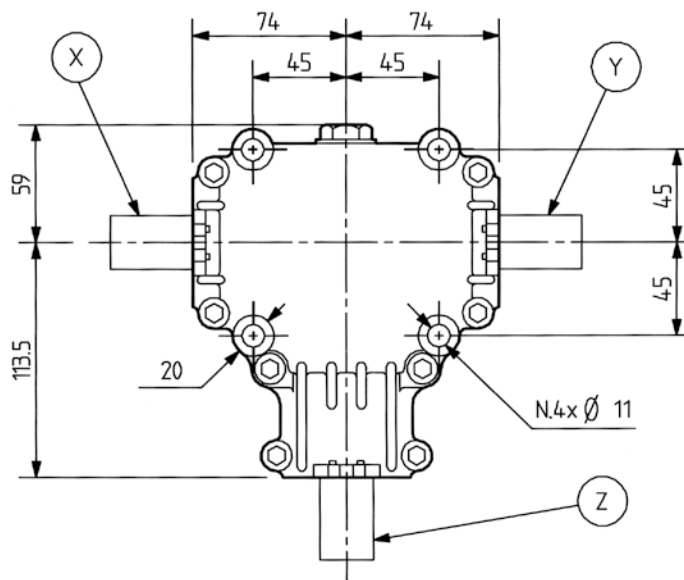
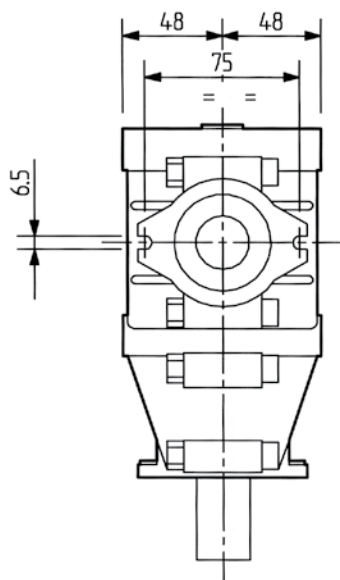


0.00

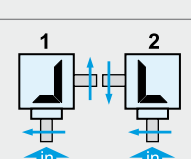
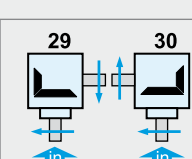
Code **124**

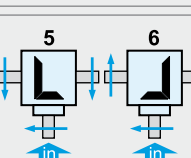
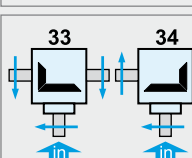


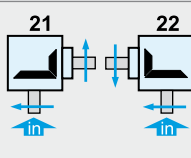
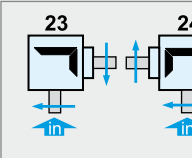
	[kg]	4.1		[l]	0.35
--	------	-----	--	-----	------



	i				std spec	Input	
		rpm	kW	HP	Nm	lb.in.	
M	1	540	11.0	15.0	189	1751	std Z 1-2 / 3-4 / 5-6
	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	
	1.90		11.0	15.0	99	921	
	2.78		5.2	7.0	31	294	
	3.00		5.0	6.8	29	265	
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

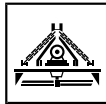



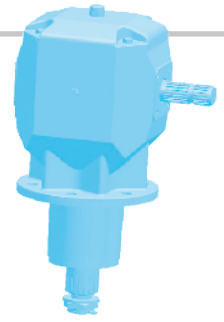
NOTA: Trattamento superficiale anodizzazione nera sulla scatola.

NOTE: Surface treatment black anodizing on housing.

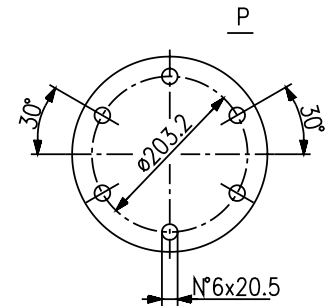
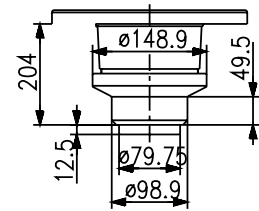
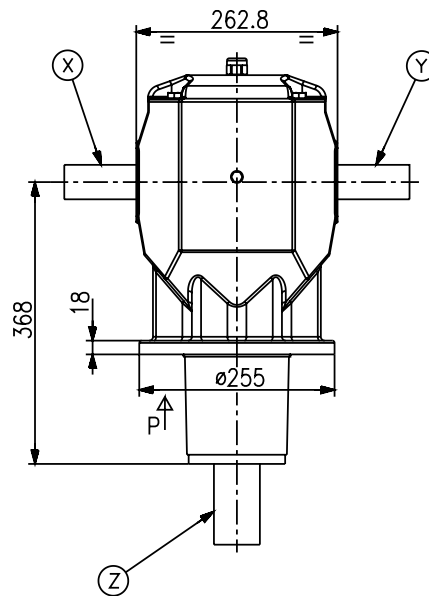
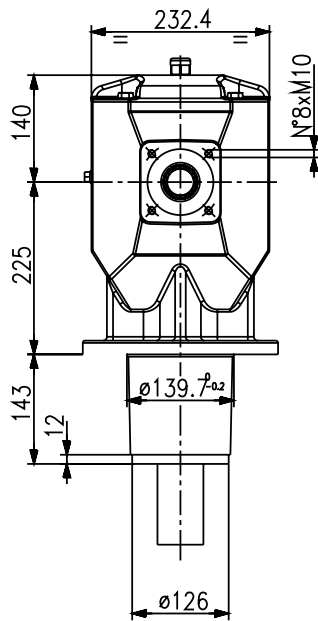
LF-125J



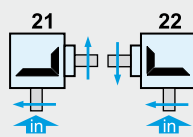
1.03



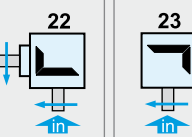
 [kg]	 [l]
--	---



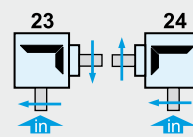
	i						std spec		Input
		rpm	kW	HP	Nm	lb.in.			
—	1.00	1000	93	125	850	7863	std	X	21-22 / 23-24
M	1.375	740	93	125	880	8140	std	X	21-22 / 23-24
	1.77	540	93	125	890	8232	std	X	21-22 / 23-24



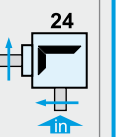
21



22



23



24

LF-32A



1.03

Code **132**

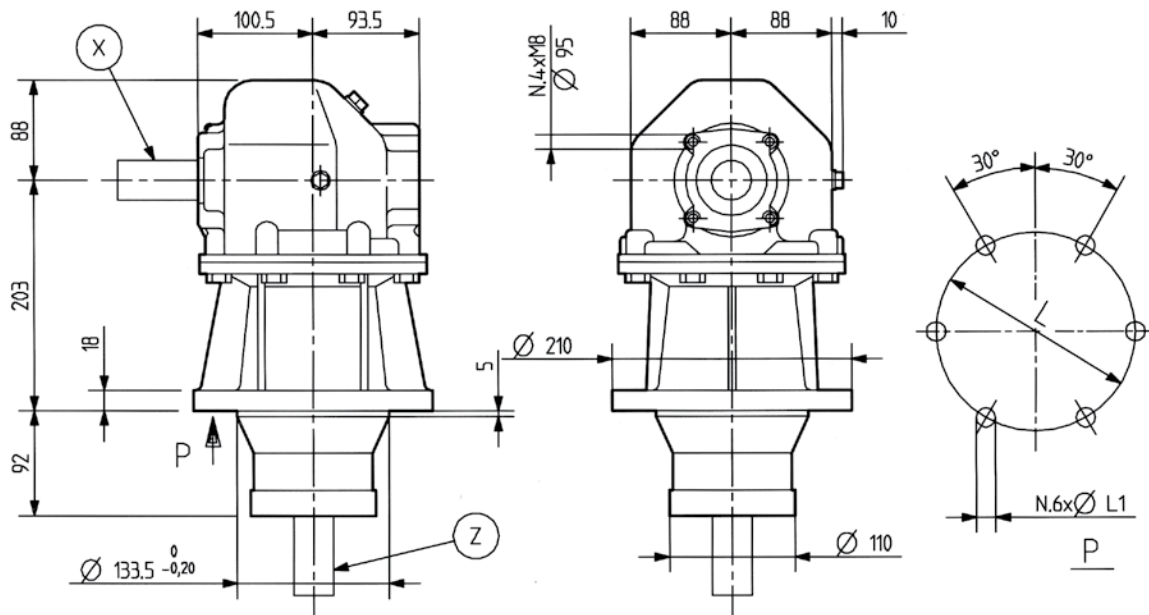
[kg]

30

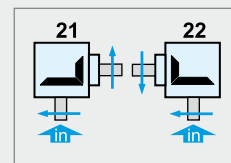


[1]

2.0



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



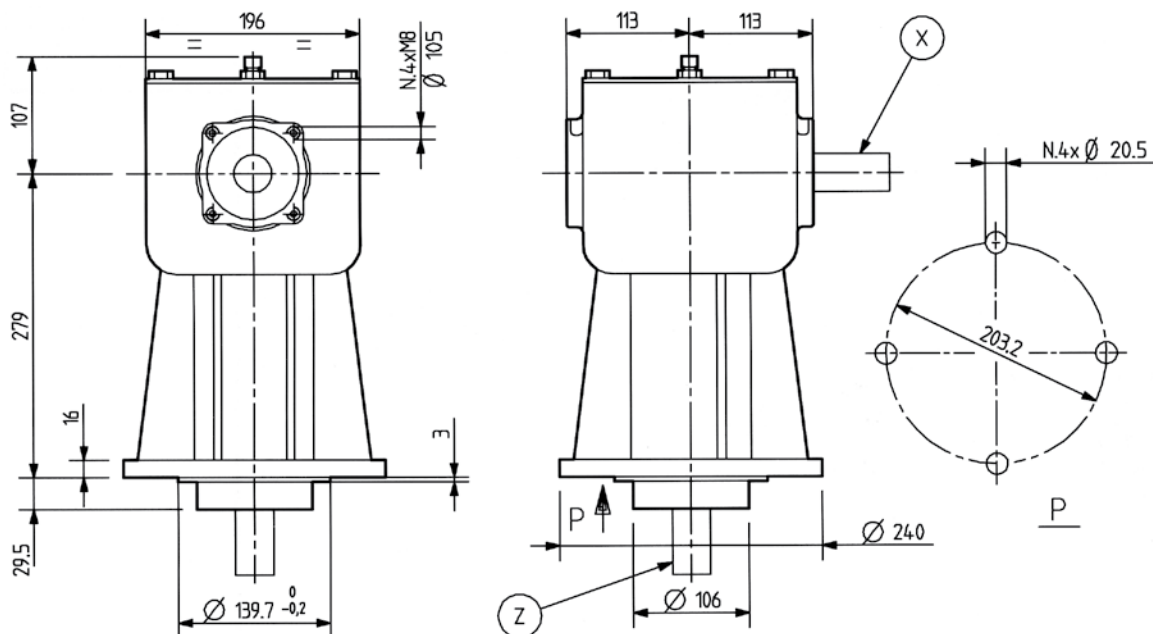
LF-139A



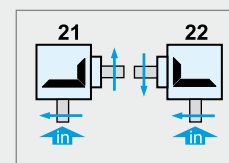
1.03



	kg	[kg]	39		Oil	[l]	3.0
--	----	------	----	--	-----	-----	-----



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



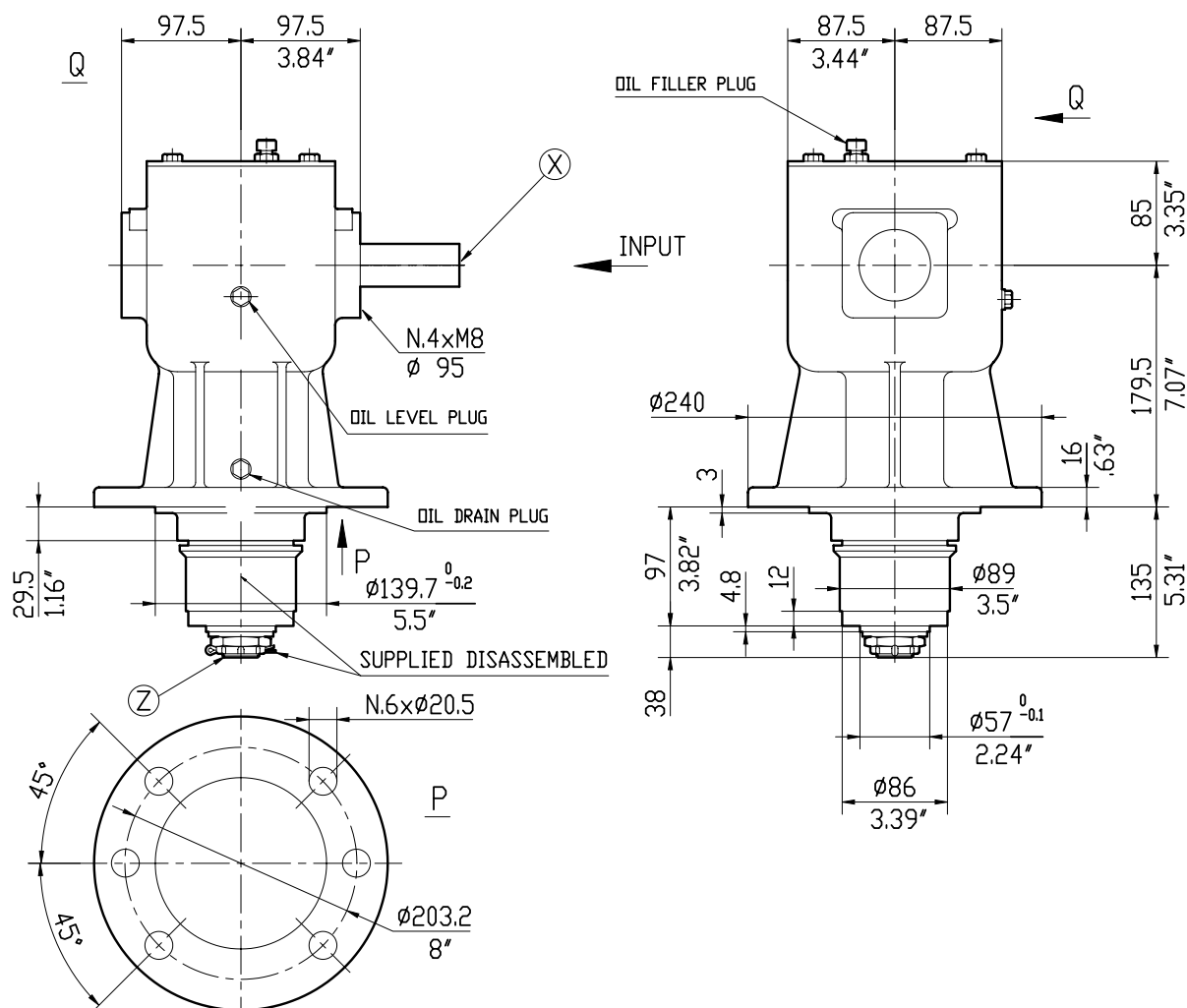
LF-140J



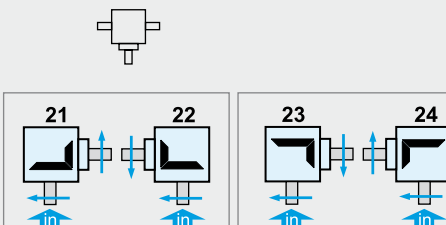
1.03



	[kg]	28.5		[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			272	2518	std		21-22 / 23-24			
	1.71	813	44.0	60.0	294	2720	std	X	21-22 / 23-24			
	1.93	540			211	1957	std		21-22 / 25-26			



LF-149B



1.03



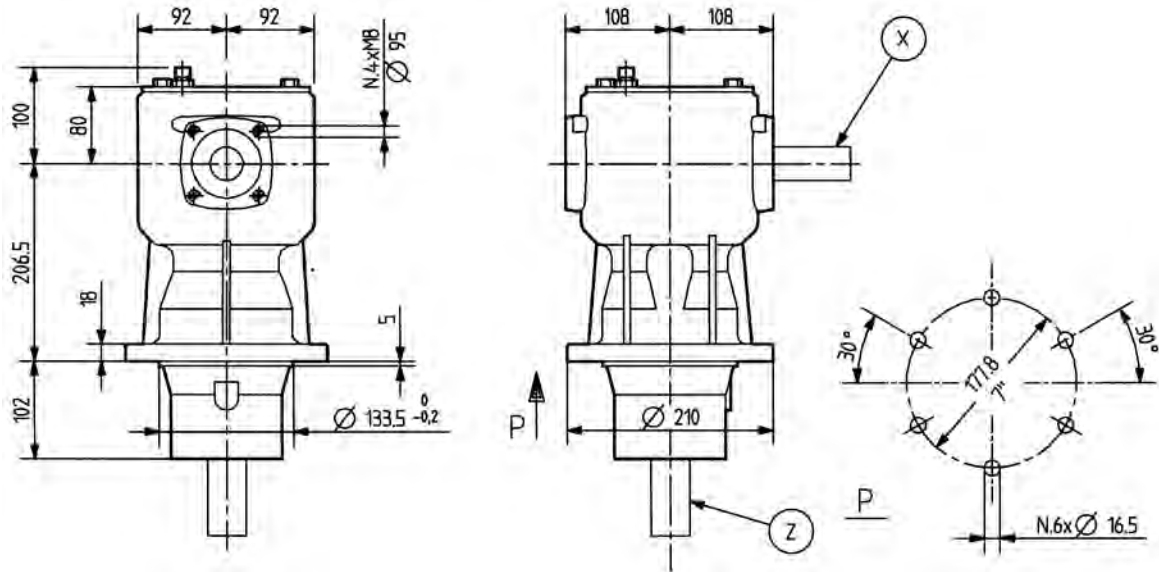
[kg]

32

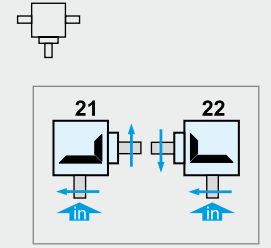


[l]

2.4



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



L-150A/B

L-150J



0.00

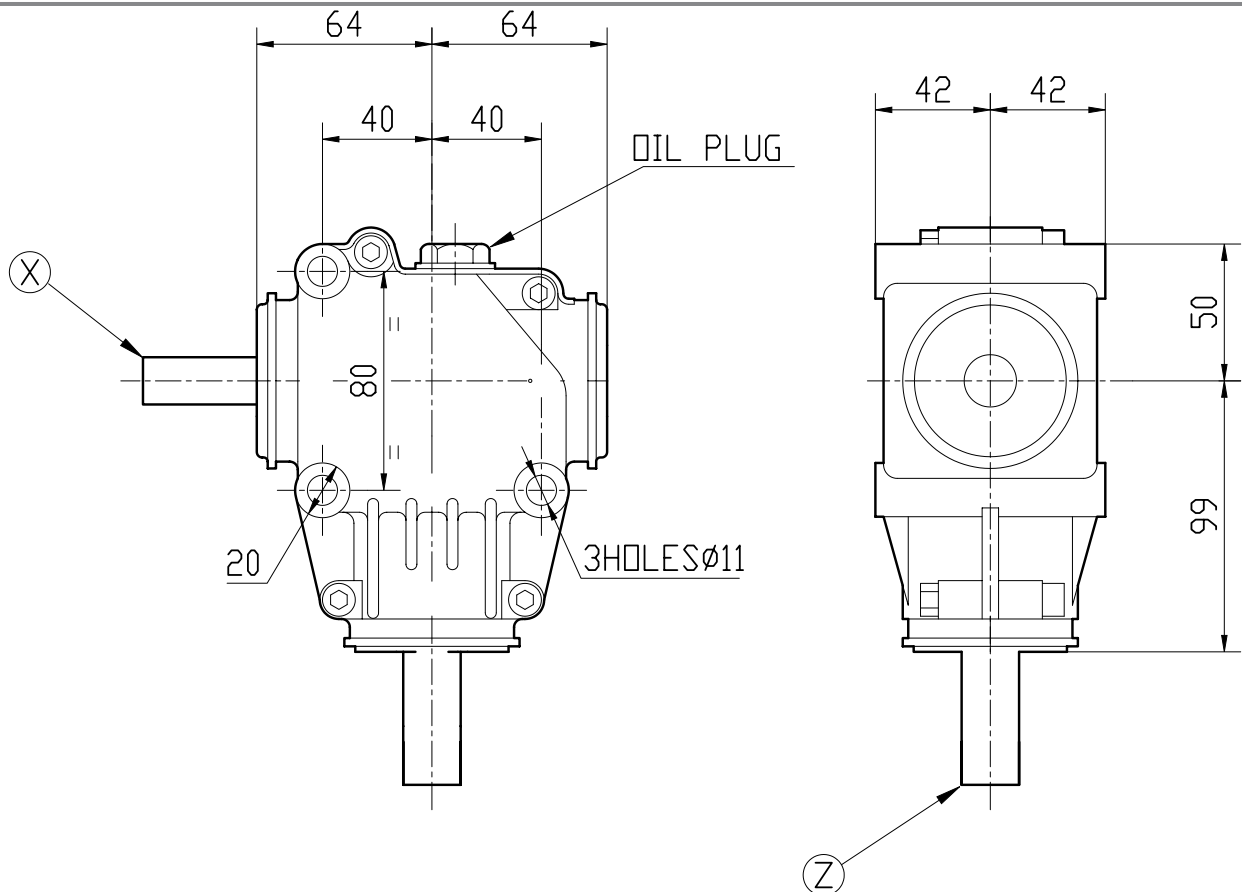


3.02

Vers. L-150A/B



	[kg]	3.5		[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

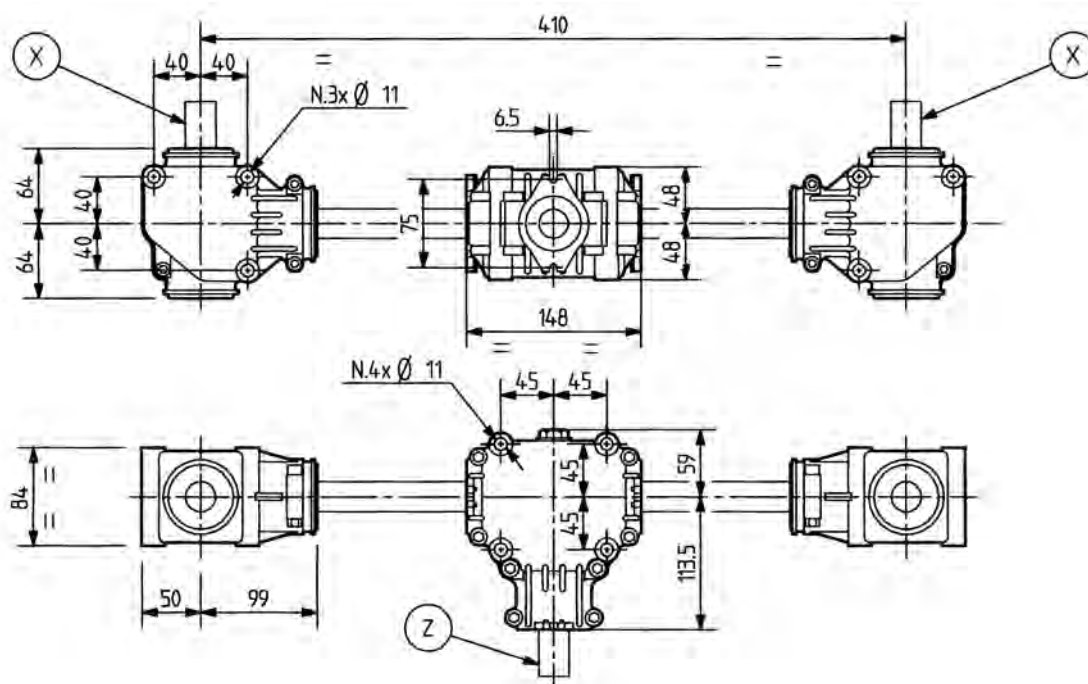



[kg]



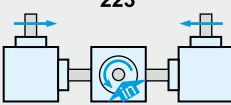
[1]

0.2x3



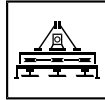
	i	 rpm	 kW <i>HP</i>	 Nm <i>lb.in.</i>	std spec	 Input	
— 	1.00	540	15.0 20.4	- -	std	Z	223
M 	1.35	540	9.9 13.5	- -	std	Z	223
	1.50			- -			





223

LF-151A



1.03



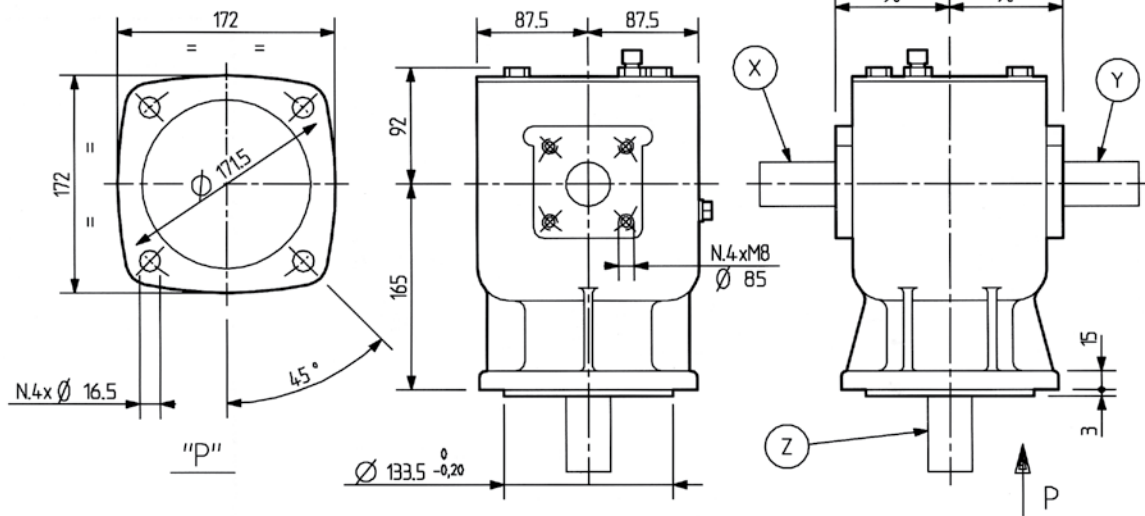
[kg]

21.5



[l]

1.3



	i				std spec		Input					
M ⇒ 	1.90	540	-	-	-	-	spec	21-22 / 23-24				
	2.54		35.3	48.0	238	2206	std					
	2.83		-	-	-	-	spec					
	3.00		33.1	45.0	189	1751	std					
	3.33		-	-	-	-	spec					

L-154J



0.00



[kg]

64



[l]

3.7

SPLINE 45x50
DIN 5482

(Z)

Ø50h7

T.U. 80

640

754

114

35 45

N°8xM16

205

100

100

189

SOLD AND SUPPLIED AS SEPARATE ITEM
BUSHING GROOVED

N°6xM10

Ø120

P

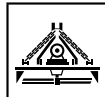
N°4xM8

Ø105

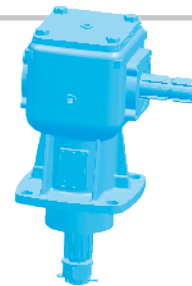
385

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

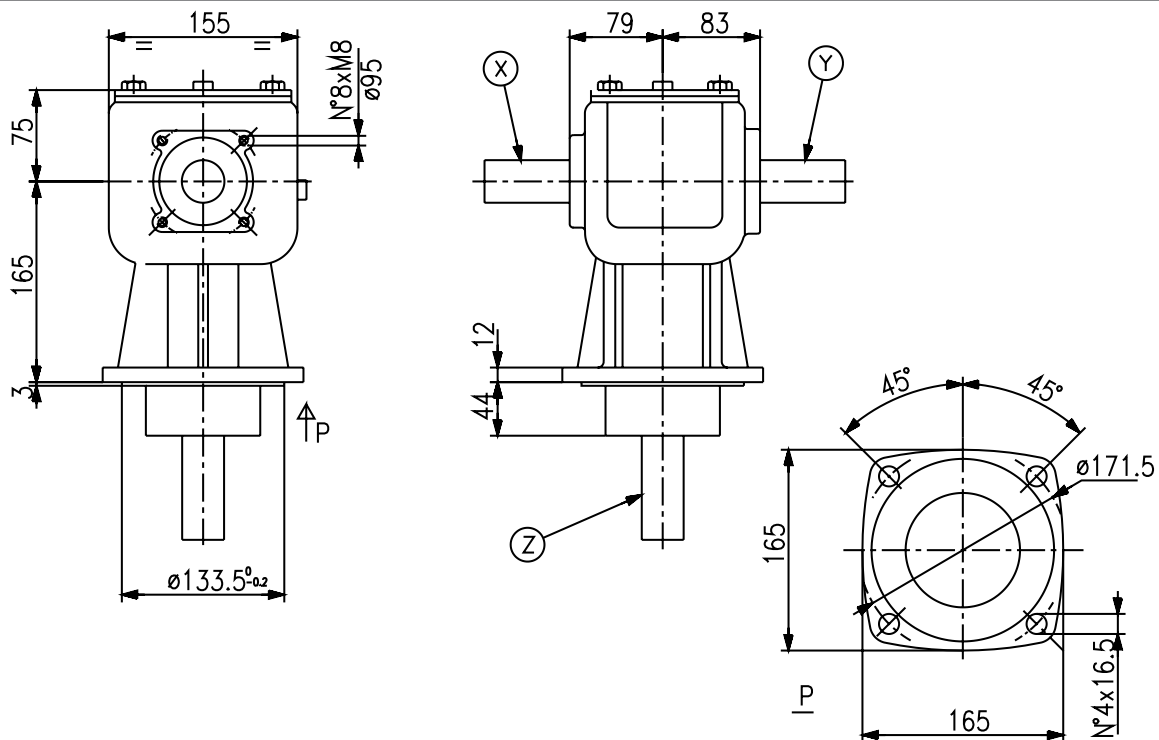
LF-205J



1.03



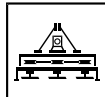
	[kg]	16		[l]	0.8
--	------	----	--	-----	-----



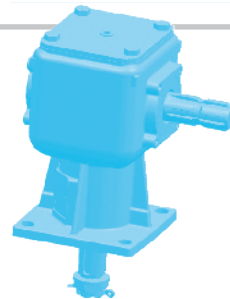
	i				std spec		Input	
		rpm	kW	HP	Nm	lb.in.		
M → → →	1.92	540	22.0	30	-	-	std	X
	1.47		29.4	40	-	-		
								21-22 / 23-24

NOTA: Disponibile a richiesta con boccola porta lama.
NOTE: Blade carrier as option can be supplied.

LF-211J



1.02



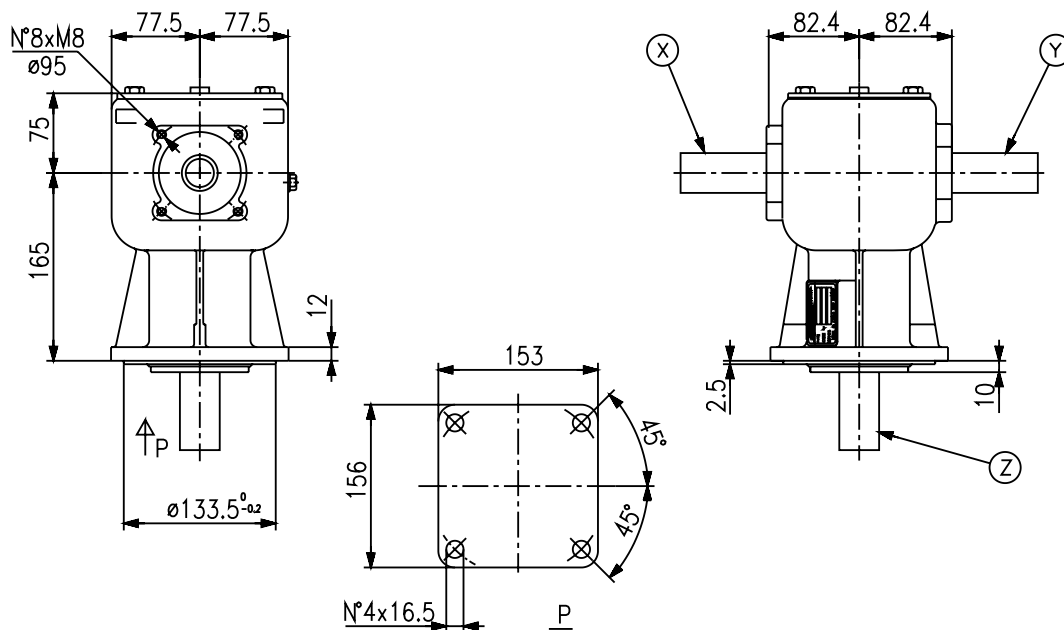
[kg]

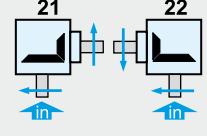
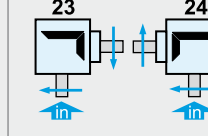
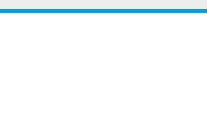
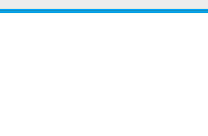
14



[l]

0.5

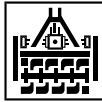


	i				std spec		Input	
		rpm	kW	HP	Nm	lb.in.		
M → 	2.50	540	14.7	20.0	-	-	std	X
	2.83				-	-		
21-22 / 23-24								
   								

LV-221F



2.02



2.01

Vers. LZ-221F



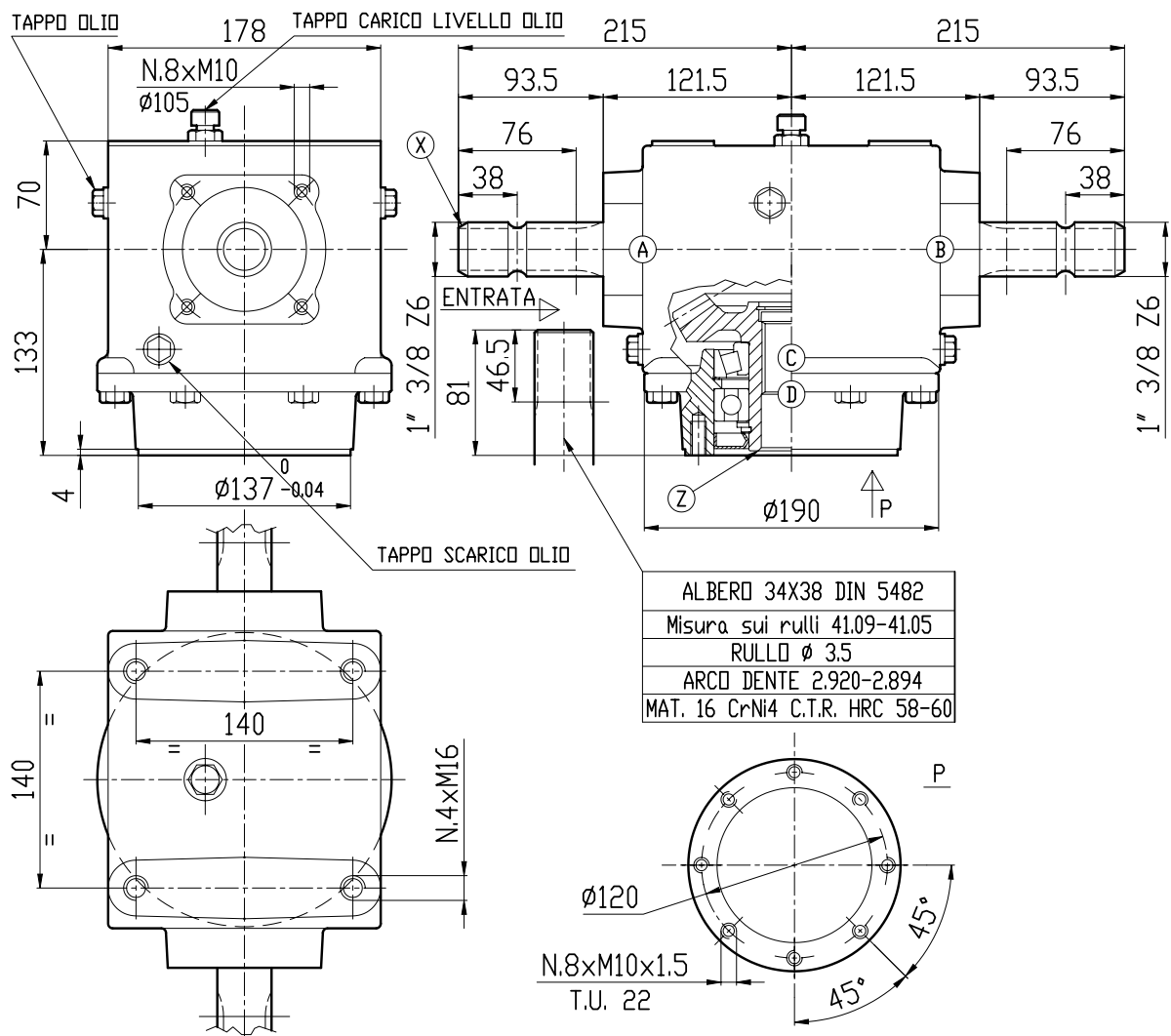
[kg]

26



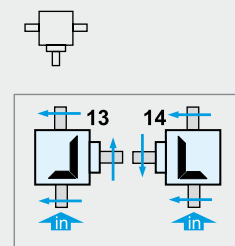
[l]

-



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

13-14



LV-221J



2.02



2.01

Vers. LZ-221F



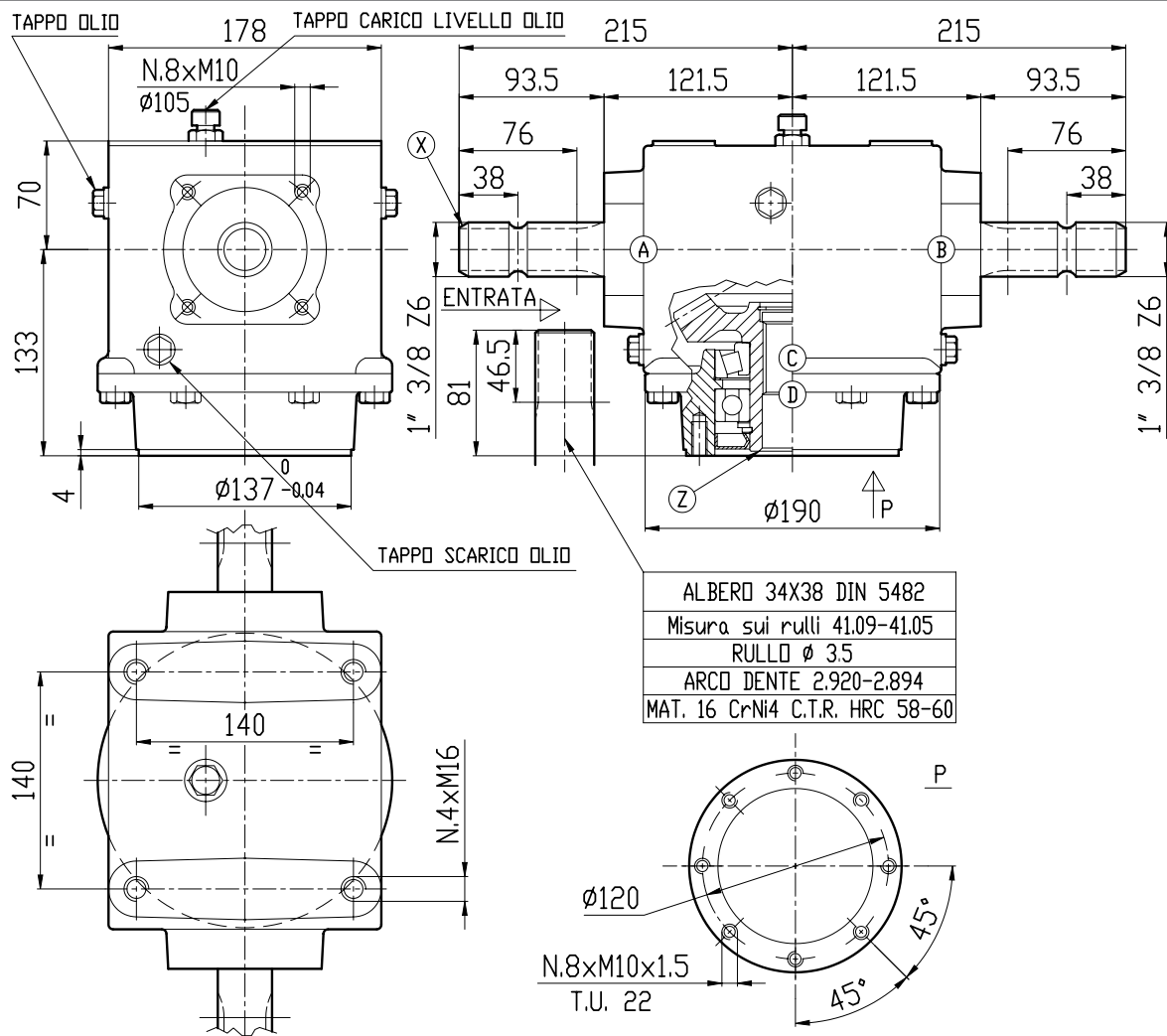
[kg]

26



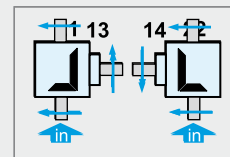
[l]

-

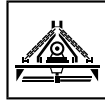


i				std spec	Input
	rpm	kW	HP		
				Nm	lb.in.
R	1.78	33.0	45.0	-	-
	540			std	X

13-14



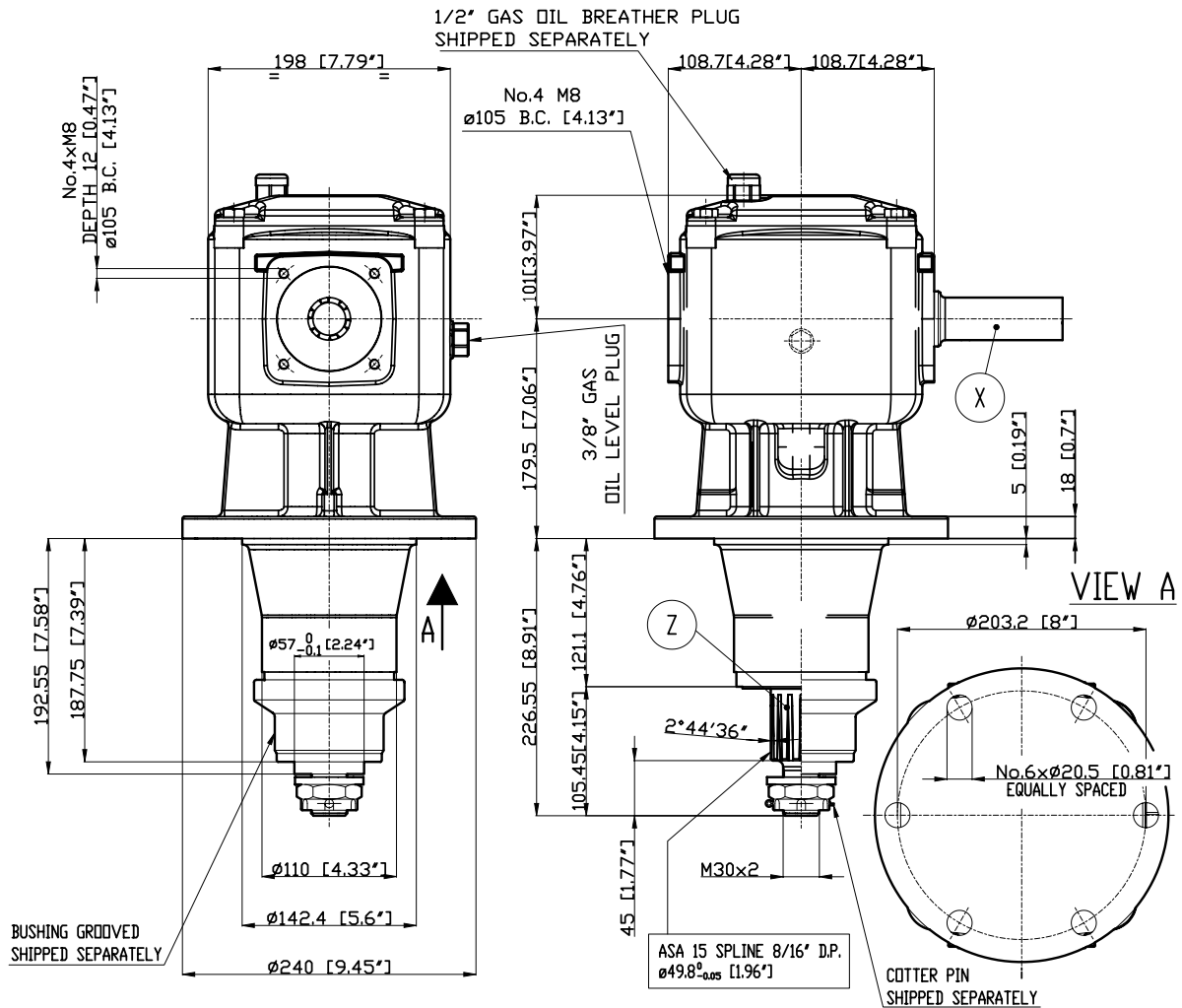
LF-227J



1.03



	[kg]	39.3		[l]	2.5
--	------	------	--	-----	-----



	i		rpm		kW	HP		Nm	lb.in.	std spec	Input	
M	1.00	540	55.1	75.0	94.6	8378	std	X	21-22-23-24			21 22 23 24
	1.22				77.5	6963			21-22 / 23-24			
	1.35				70.1	6208			21-22 / 23-24			
	1.44	540	55.1	75.0	65.7	5818	std	X	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			7 8 222
	1.35				69	6111			7/8			

T-19

Code **259**



0.00

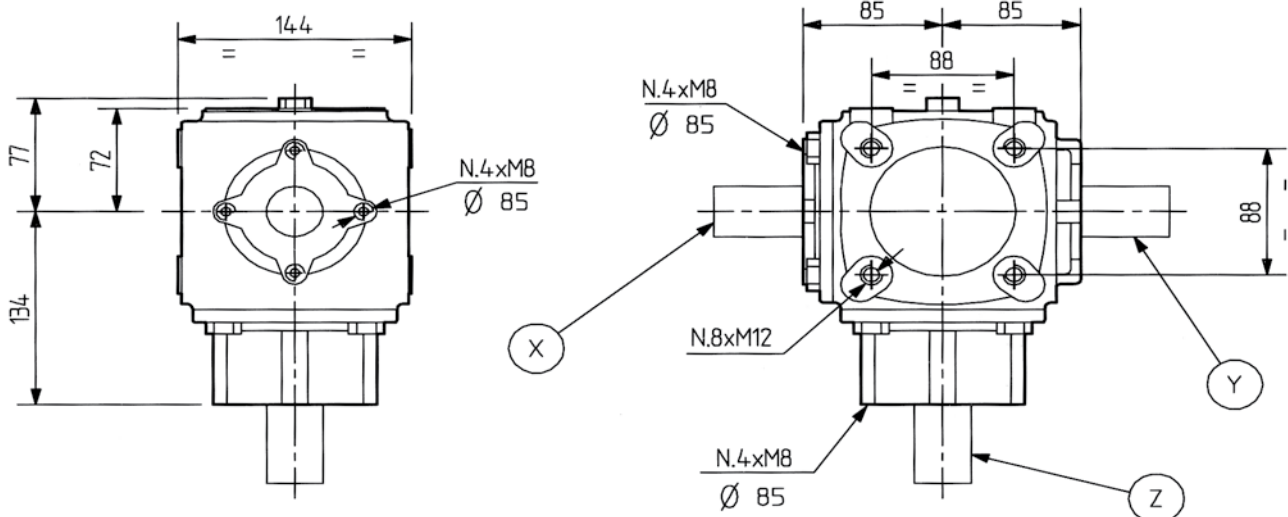


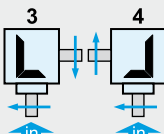
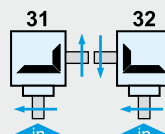
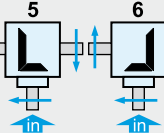
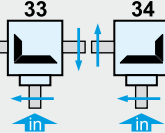
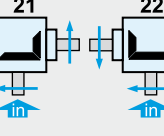
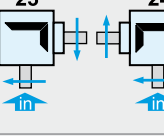
3.02

Vers. TB-19E



	[kg]	14		[l]	0.9
--	------	----	--	-----	-----

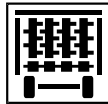


	i						std spec				
—	1.00	540	16.9	23.0	290	2684	std	Z	1-2 / 3-4 / 5-6		
	1.00		24.3	33.0	416	3852	std	Z	1-2 / 3-4 / 5-6		
M	1.35	540	-	-	-	-	spec	-	-		
	1.46		20.6	28.0	241	2238	std	X-Y	21-22 / 23-24 25-26 / 27-28		
	1.84		14.7	20.0	137	1269	std	X-Y	21-22 / 23-24 25-26 / 27-28 31-32 / 33-34		
	2.17		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.

T-19I/H/L



1.04

Code **259**

[kg]

—

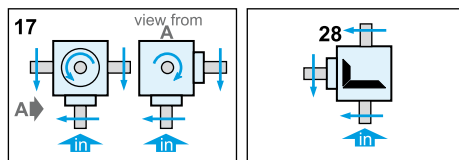
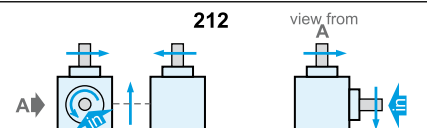


[1]

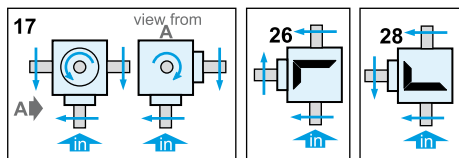
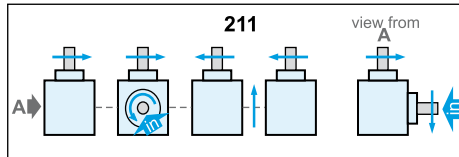
—



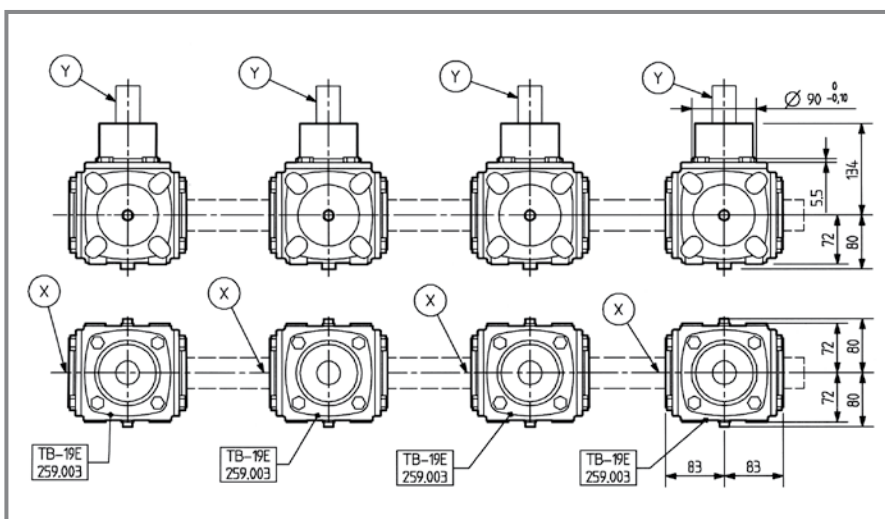
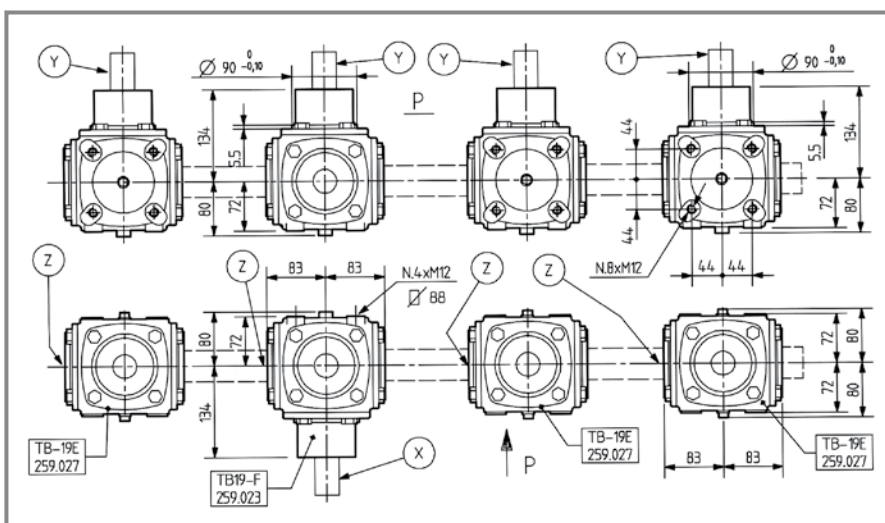
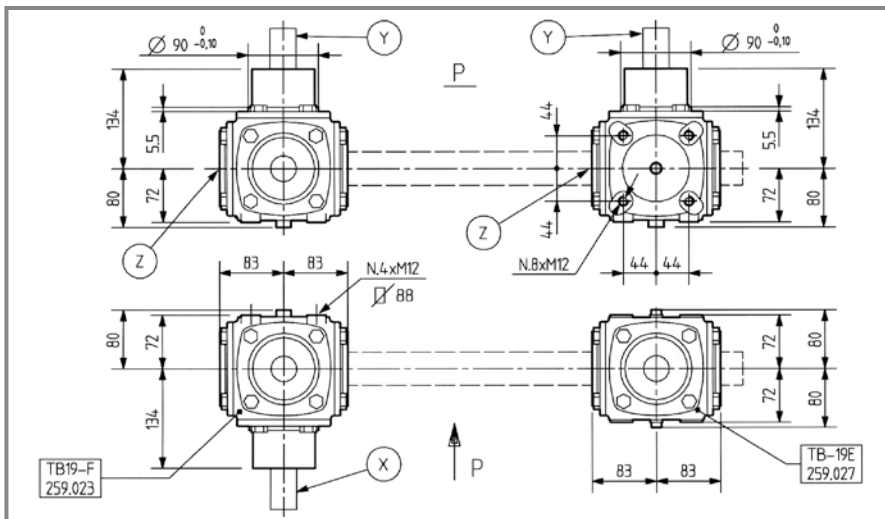
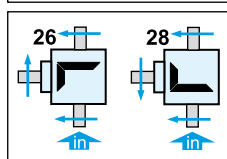
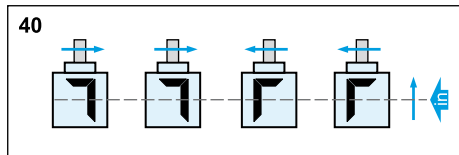
T-19I



T-19H



T-19L



T-22A

Code **262**



0.00

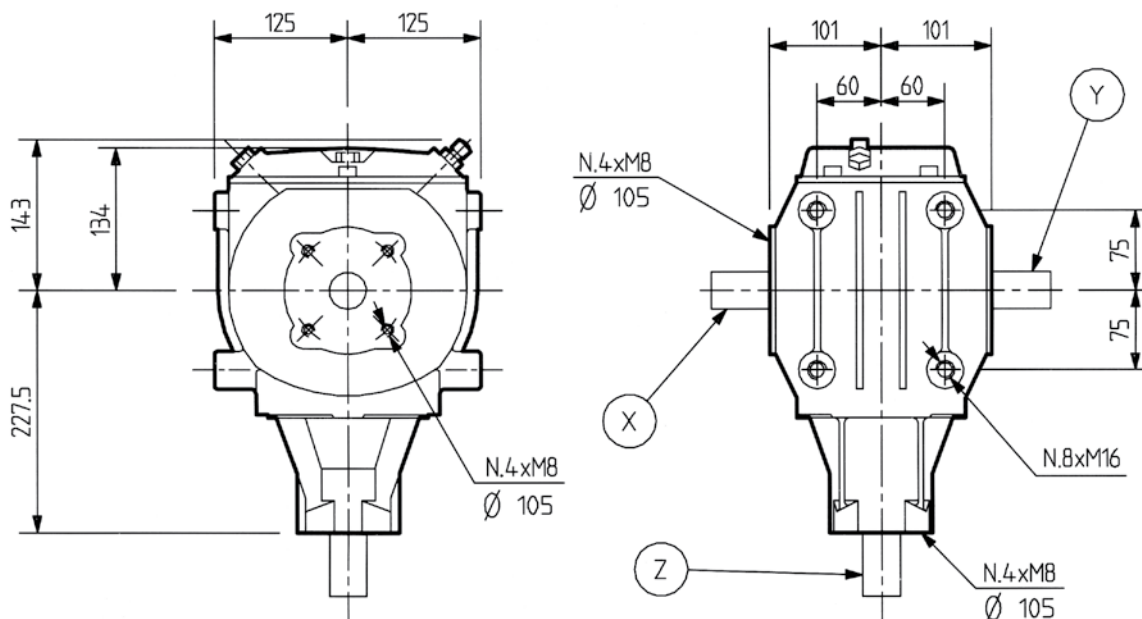


2.04

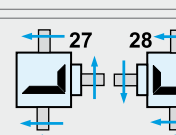
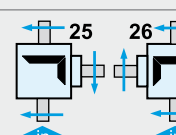
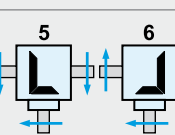
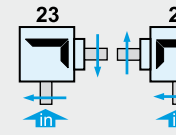
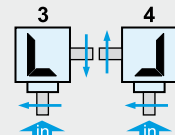
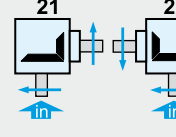
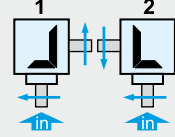


5.03

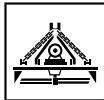
Vers. T-22F Vers. T-22D



	i						std spec		
		rpm	kW	HP	Nm	lb.in.		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

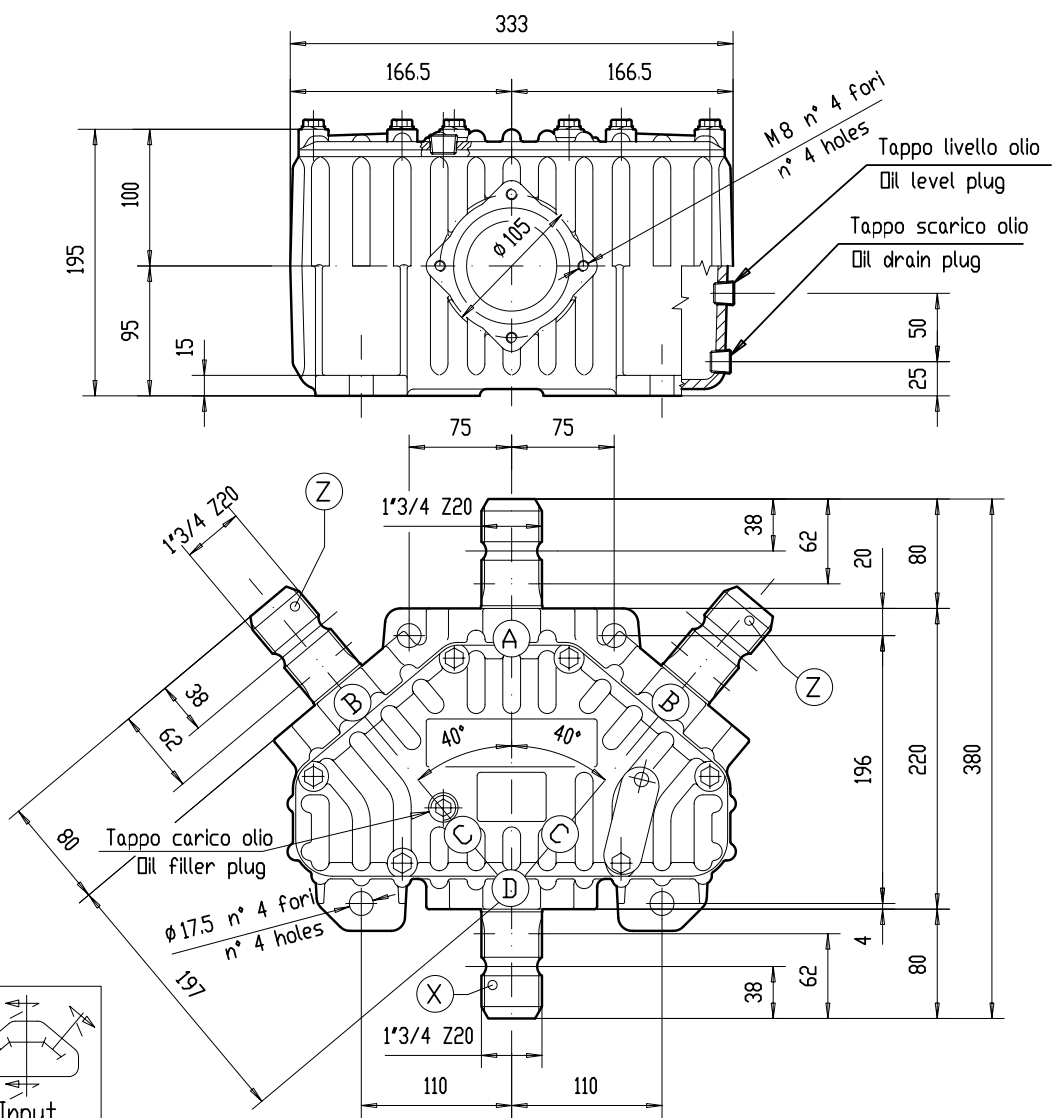
Code **265**

[kg]

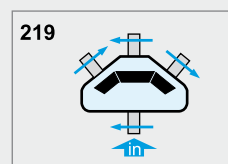
39.5



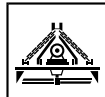
[1]



	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



TF-26A



1.03

Code **266**



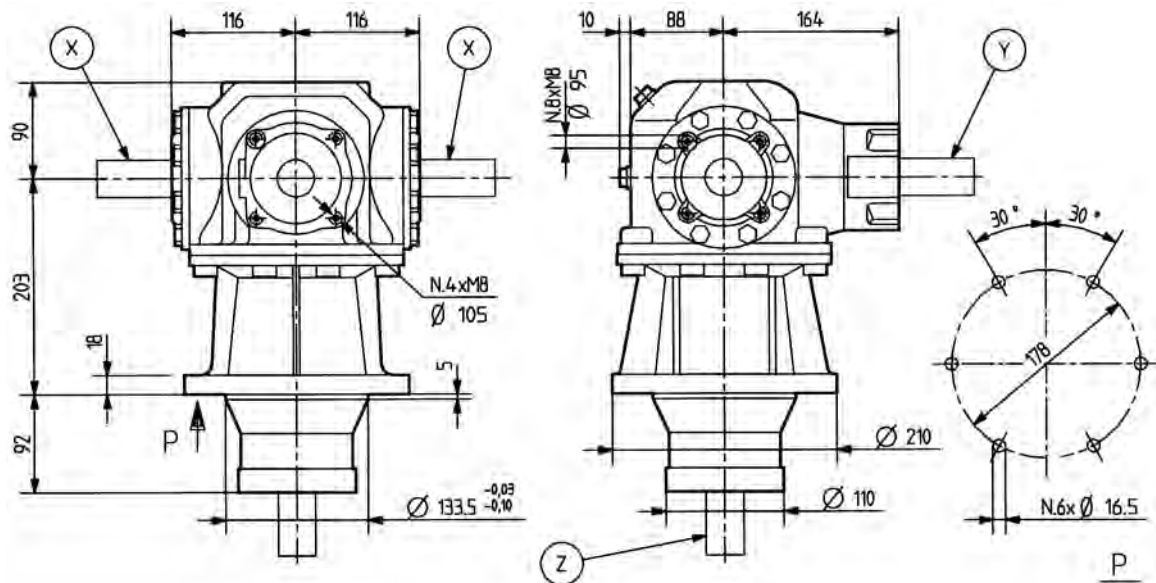
[kg]

34

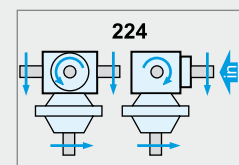


[l]

2.2



	i				std spec		Input		
M → +	1.26	540	-	-	-	-	spec	Y	224
	1.85		66.2	90.0	613	5678	std		
	2.00		-	-	-	-	spec		



T-27A

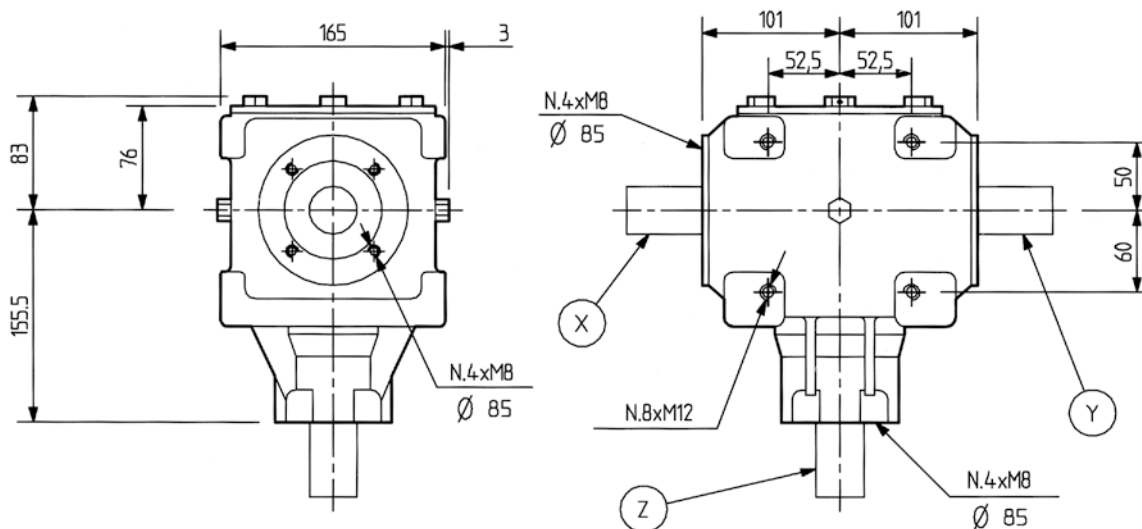


0.00

Code **267**



	[kg]	21		[l]	1.2
--	------	----	--	-----	-----



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

T-27J

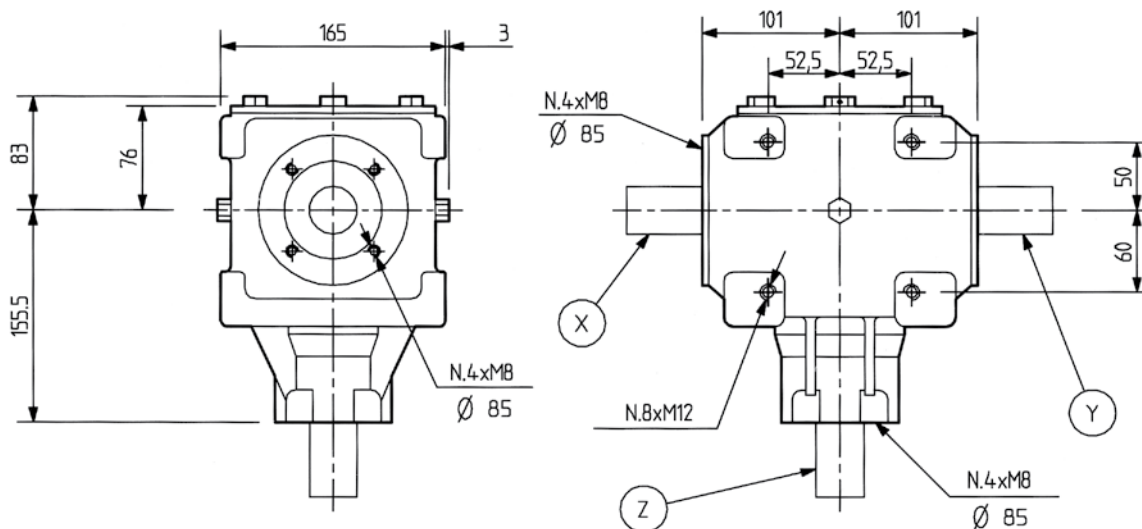


0.00

Code **267**

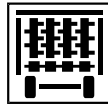


	[kg]	21		[l]	1.2
--	------	----	--	-----	-----



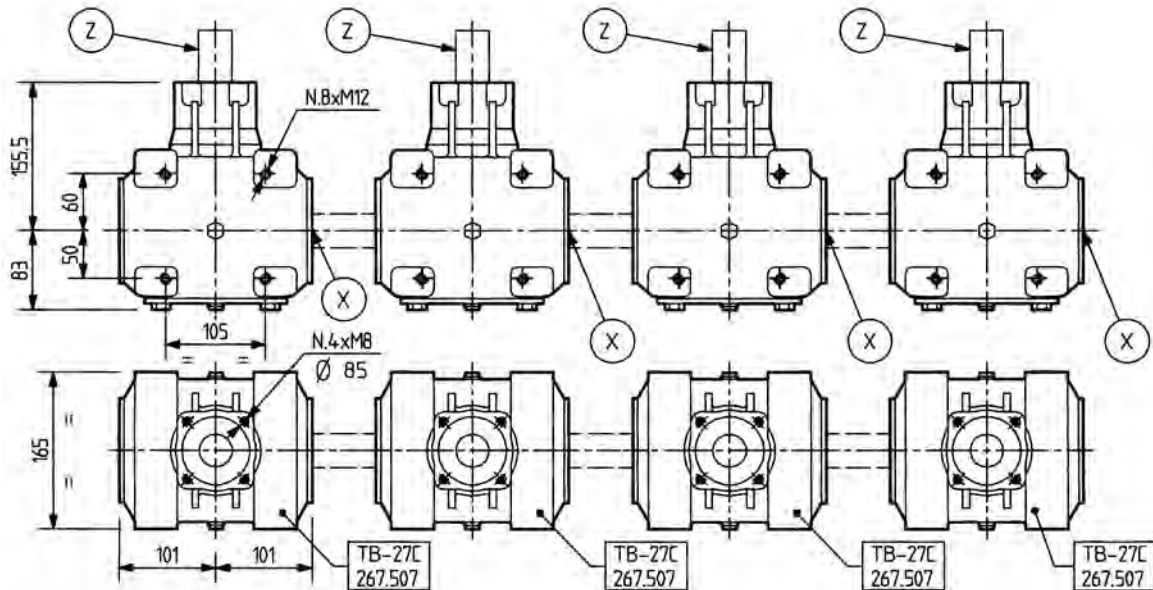
	i		rpm		kW	HP		Nm	lb.in.	std spec	Input	
—	1.00	540	28.0	38.0	479	4435	std	Z	1-2 / 3-4 / 5-6			
M	1.46		30.9	42.0	366	3357		X-Y-Z	21-22 / 23-24 25-26 / 33-34			
	1.92		22.1	30.0	197	1824	std	X-Y-Z	21-22 / 23-24 25-26 / 27-28			
R	1.35		24.3	33.0	607	5623	std	Z	1-2 / 31-32			
	1.46		29.4	40.0	736	6816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

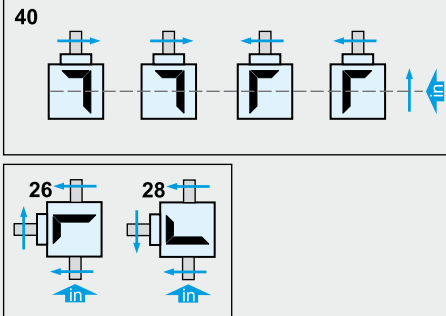


1.04

	[kg]	-		[l]	-
---	------	---	---	-----	---



	i				std spec		Input
		rpm	kW HP	Nm lb.in.			
R	1.00	540	40.5 55.0	693 6419	std	X	26-28 / 40



T-28J



0.00

Code **T-268**



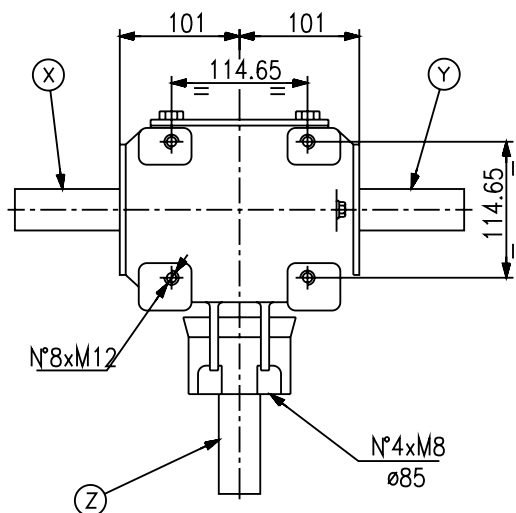
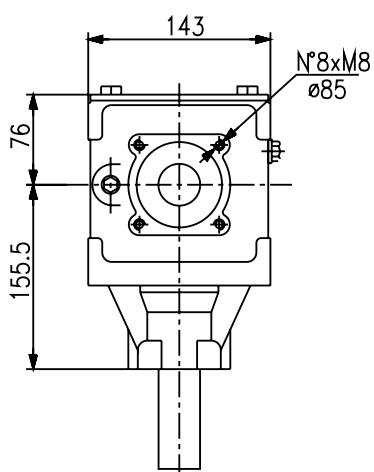
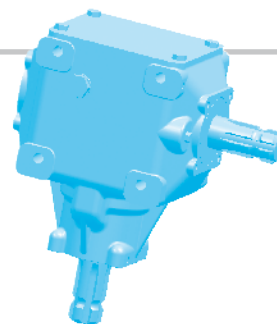
[kg]

-

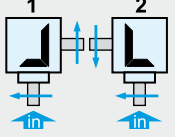


[l]

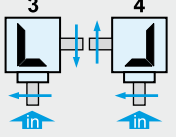
-



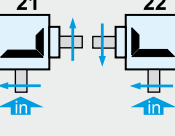
		i				std spec			
			rpm	kW	HP	Nm	lb.in.		
—		1.00	540	40.4	55	693	6410	std	X
									1-2 / 3-4
M		1.35	540	40.4	55	514	4755	std	X
									21-22
R		1.35	540	38.2	52	930	8602	std	X
									1-2



1 2



3 4



21 22

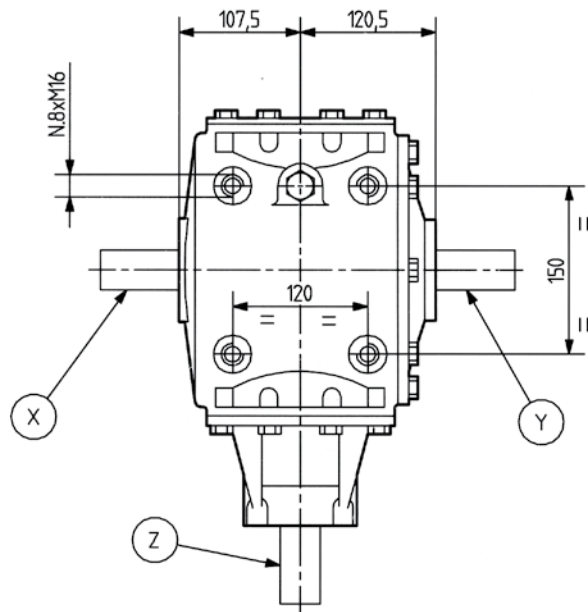
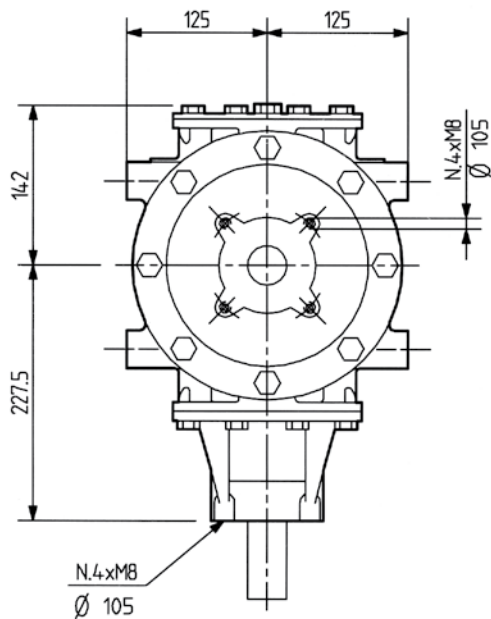
T-269A



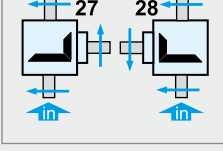
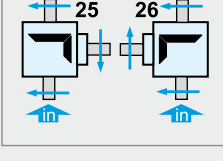
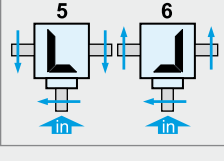
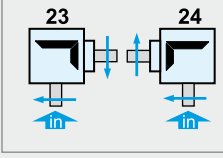
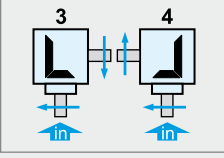
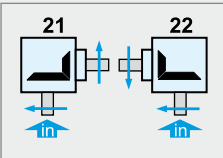
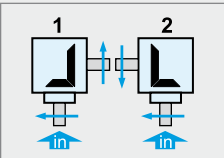
0.00



	[kg]	48		[l]	3.25
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	i						std spec		
		rpm	kW	HP	Nm	lb.in.		Input	
M	1.00	540	73.6	100	1261	11671	std	Z	1-2 / 3-4 / 5-6
	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		-	-	-	-		-	-



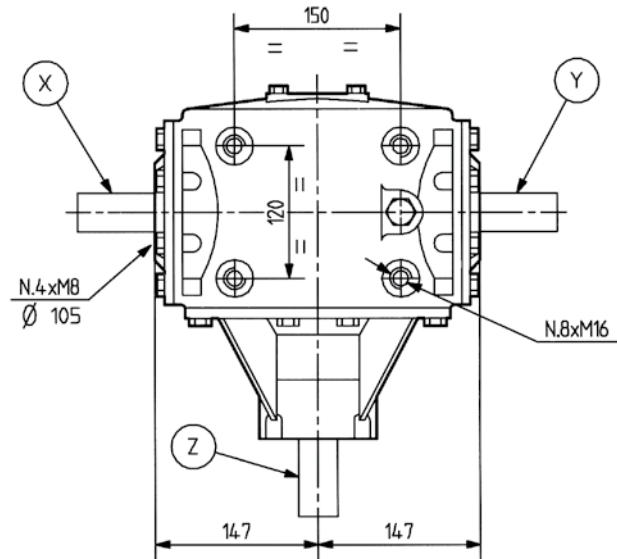
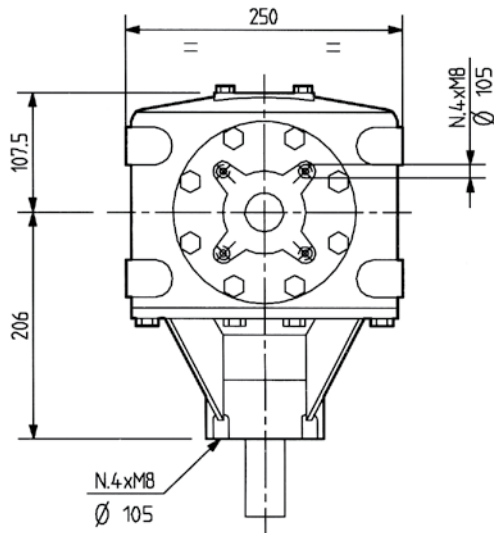
T-269B

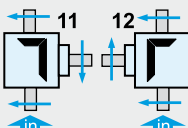
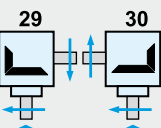
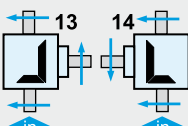
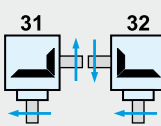
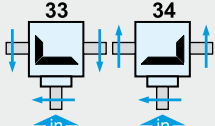


0.00

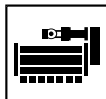


	[kg]	40		[l]	3.3
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	i						std spec		Input		
—	1.00	540	73.6	100	1263	11700	std	Z	-		
M	1.42	540	77.3	105	932	8630	std	Z	29-30 31-32 33-34		
	1.63		77.3	105	812	7158					
	1.93		72.1	98.0	640	5026					
	2.42		62.6	85.0	442	4099					
	3.00		62.6	85.0	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					

T-269B



1.01



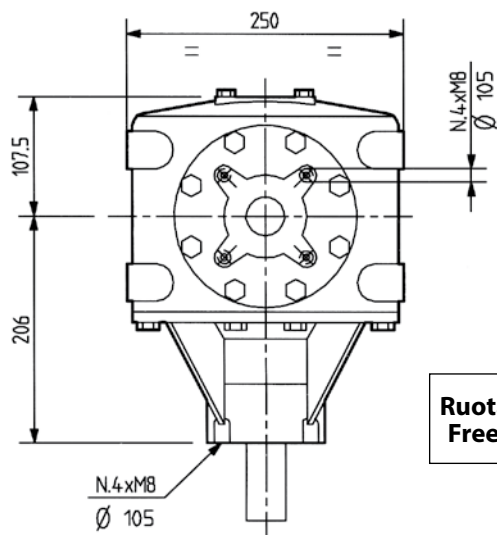
[kg]

40

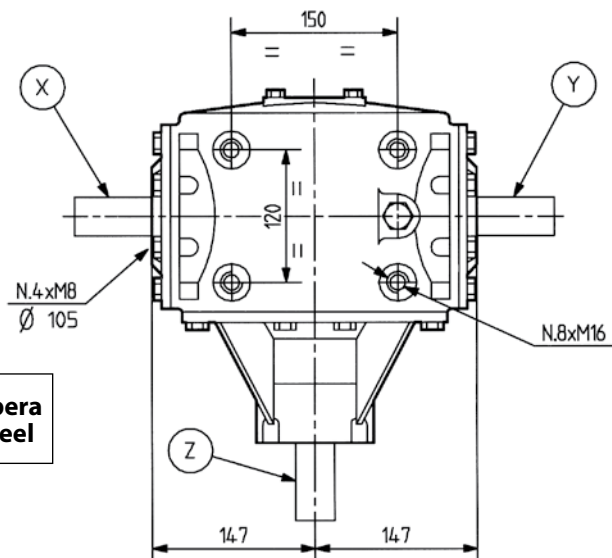


[l]

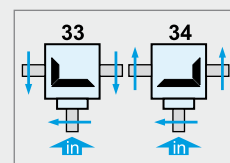
3.3



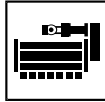
Ruota libera
Free wheel



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



TL-269E



1.01



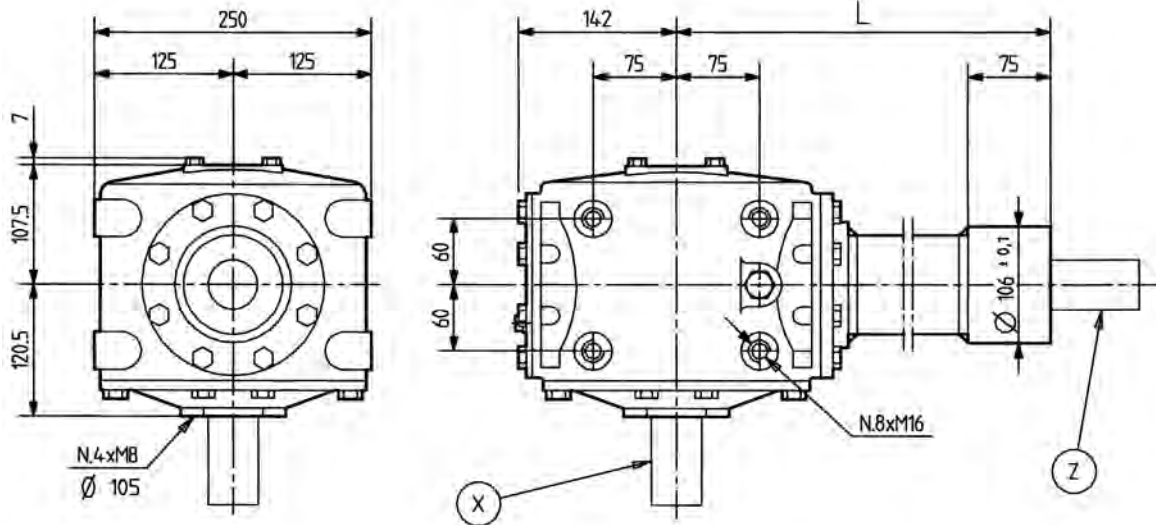
[kg]



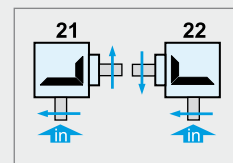
OIL

[l]

-



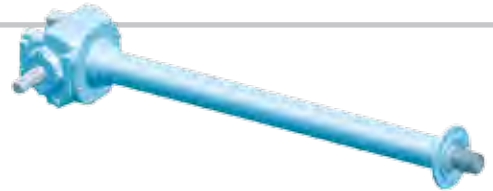
	i				std spec		Input		
		rpm	kW	HP					
M ⇒ ➔	1.42	540	81.0	110	std	X	21-22		
	1.93		81.0	110					
	2.42		66.2	90.0					



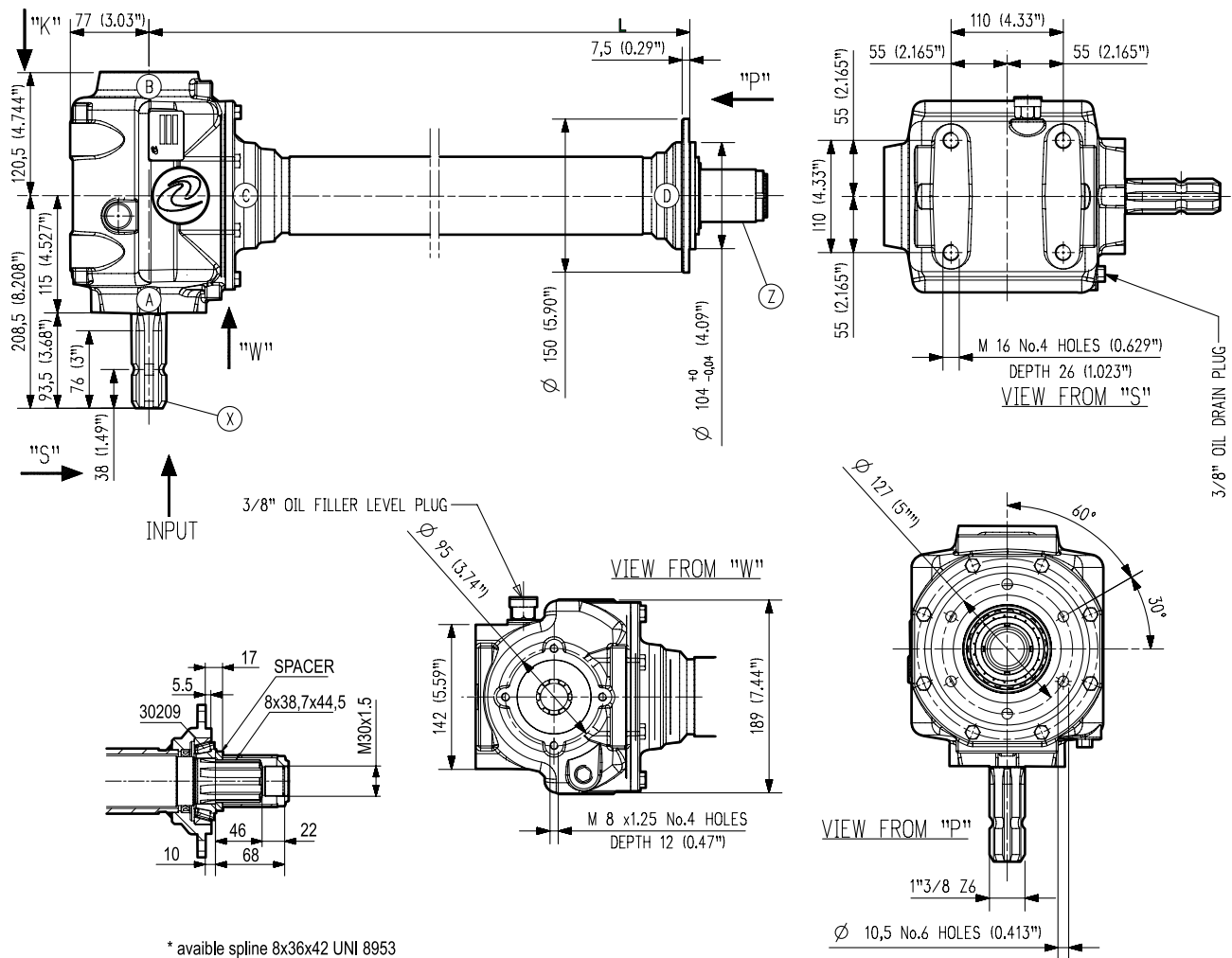
TLZ-270J



2.01



	[kg]	46		[l]	-
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	i				std spec		L (mm)	Code	
		rpm	kW	HP	Nm	lb.in.			
R	➔	1.71	540	47.8	65.0	155.5	-	X	925
									7-8

TV-274A



2.02



5.03

Vers. TV-274E



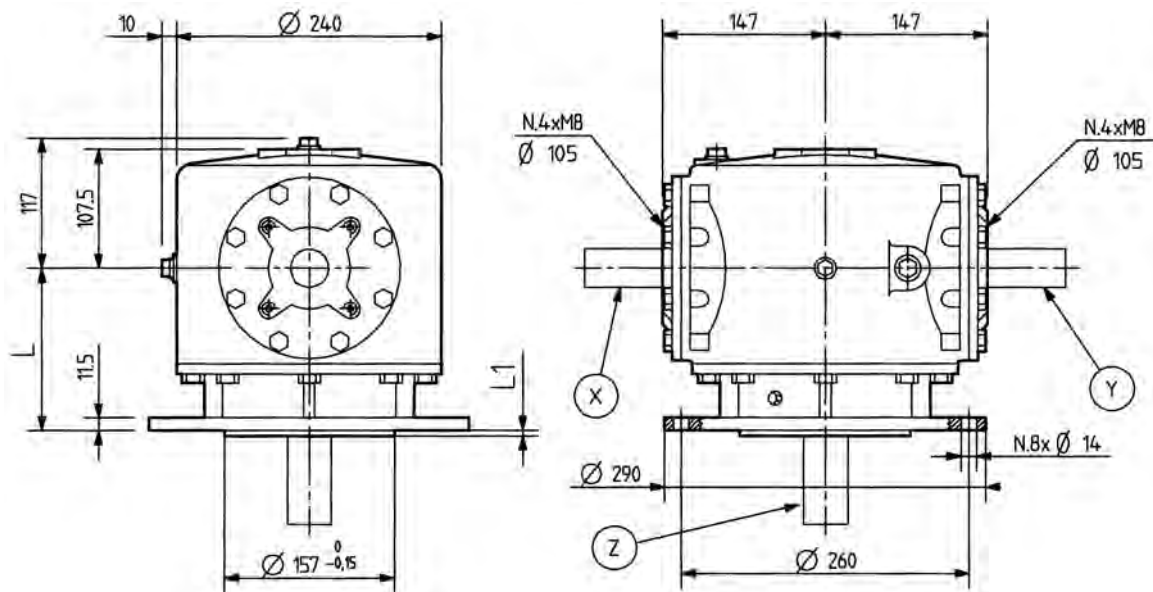
[kg]

51



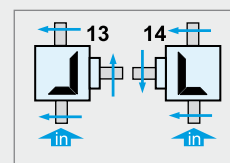
[l]

1.8



i	 rpm	 kW HP	 Nm lb.in.	std spec	 Input
R ➔ ➔ 1.93	540	58.9 80.0		std	X

13-14



T-276 A



0.00



4.01



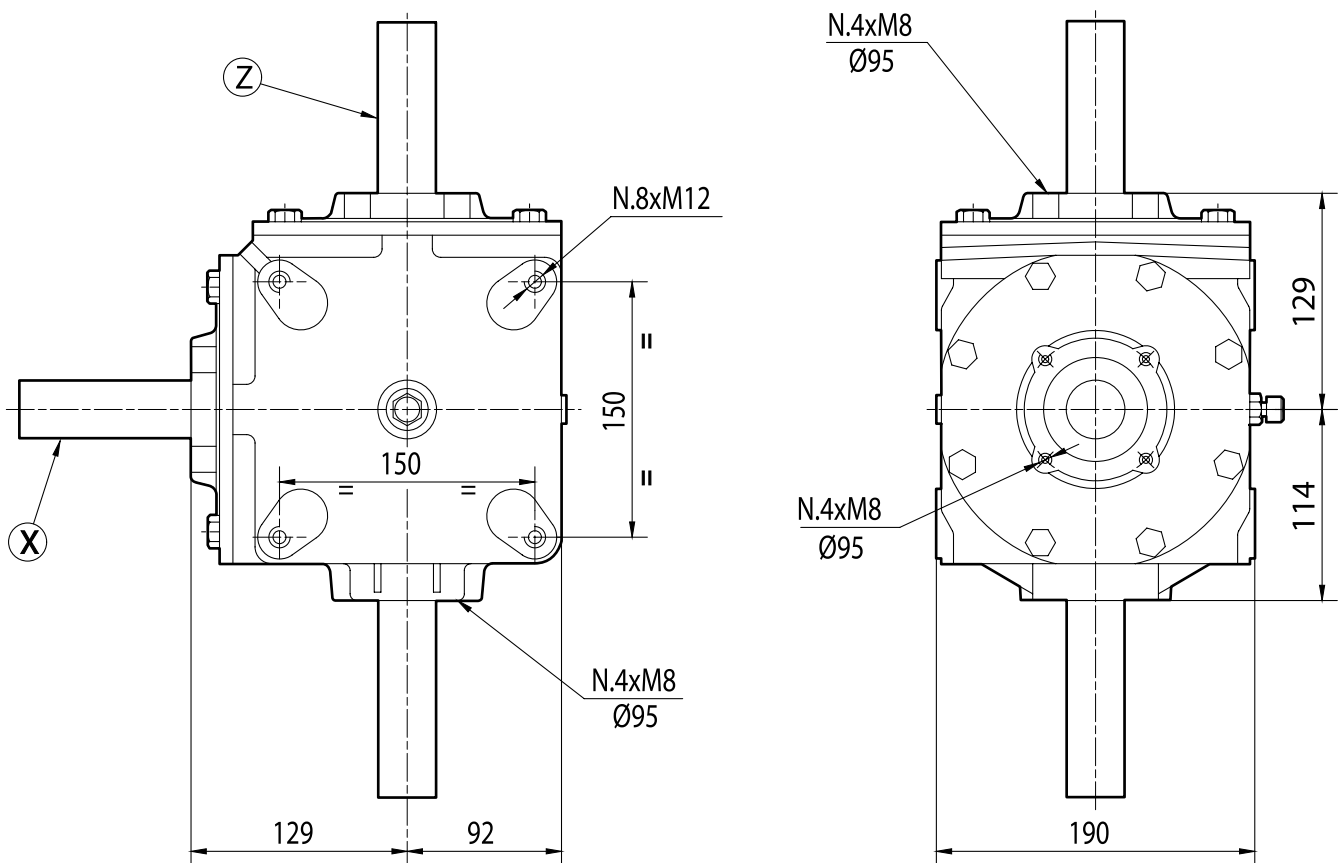
[kg]

26



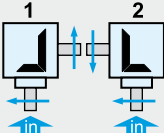
[l]

2.3

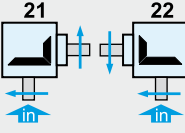


		i						std spec		Input	
			rpm	kW	HP	Nm	lb.in.				
—		1.00	540	73.5	100	132.6	-	std	Z		1-2 / 3-4 / 5-6
M		1.35	540	73.5	100	98.2	-	std	Z		21-22
		1.5		66.0	90.0	83.0					
R		1.35	540	66.2	90.0	153.2	-	std	Z		1-2
		1.5		58.9		151.3					

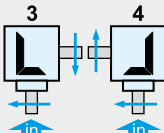




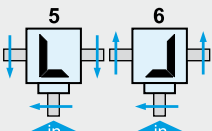
1 2



21 22



3 4



5 6

T-278A



0.00



5.03
TV-278B



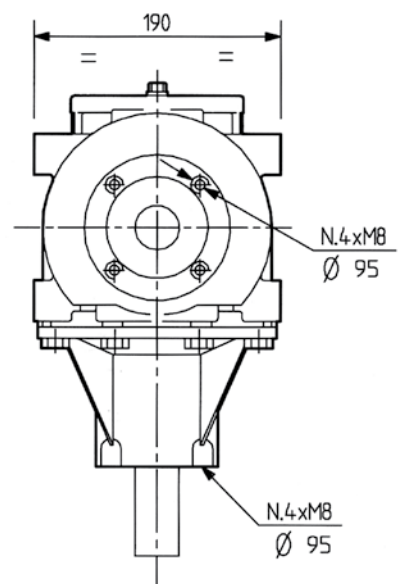
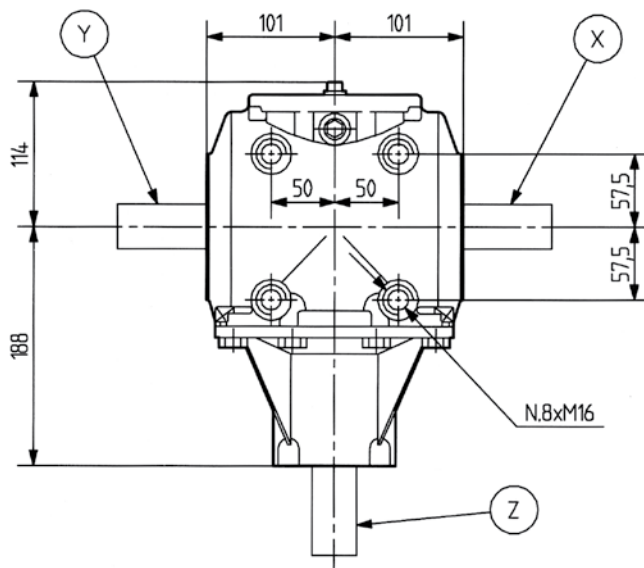
[kg]

23.5



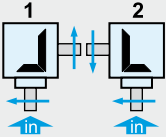
[l]

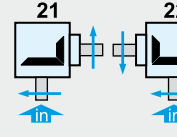
1.7

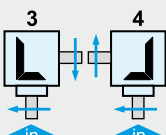


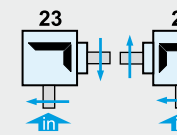
	i						std spec		
		rpm	kW	HP	Nm	lb.in.			
M	1.00	540	40.5	55.0	693	6419	std	Z	1-2 / 3-4 / 5-6
	1.60	540	40.5	55.0	433	4012	std	X-Y	21-22 / 23-24 25-26 / 27-28
	1.92		40.5	55.0	361	3343		X-Y	
	2.33		38.3	52.0	281	2605		X-Y	
	2.91		33.1	45.0	195	1805		X-Y	
R	1.60	540	36.8	50.0	1008	9337	std	Z	1-2 / 3-4 / 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

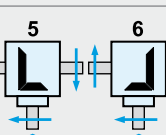


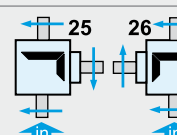


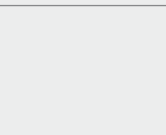


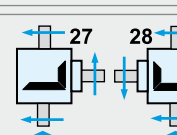












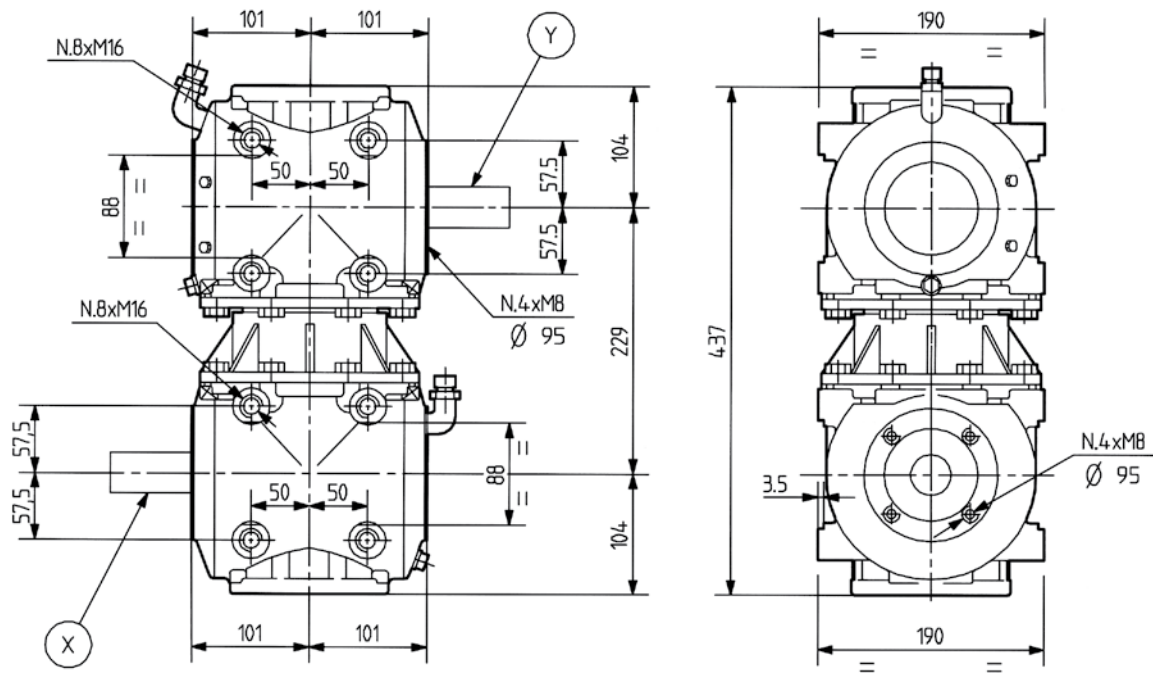
T-278D



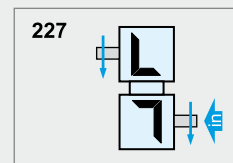
0.00



	[kg]	55		[l]	1.2+1
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	i				std spec		Input
		rpm	kW	HP	Nm	lb.in.	
M → +	1.00	540	44.2	60.0	-	-	std X
R → +	1.35	540	44.2	60.0	-	-	std X
	1.82						



T-279A



0.00



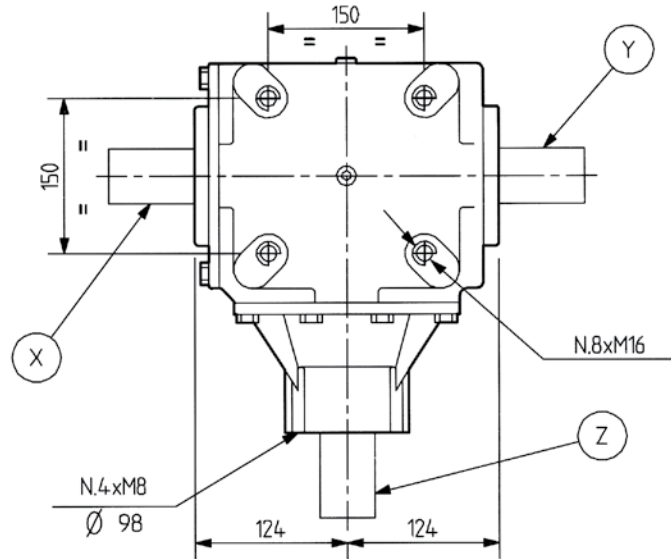
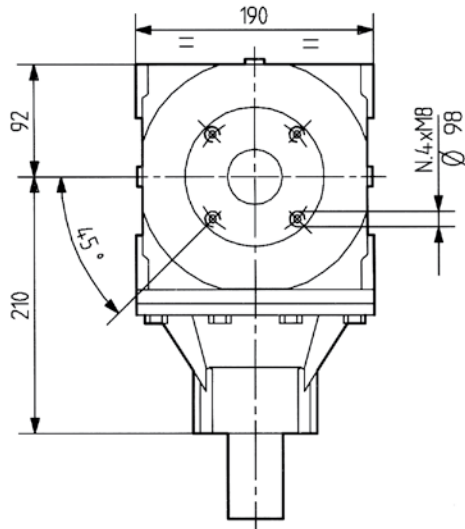
[kg]

37



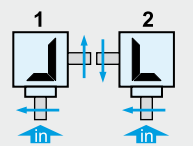
[l]

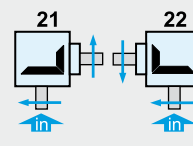
2.5

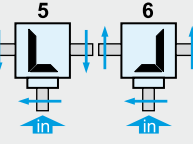


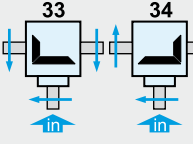
	i						std spec		
		rpm	kW	HP	Nm	lb.in.		Input	
—	1.00	540	73.6	100	1261	11671	std	Z	1-2 / 5-6
M	1.35	540	73.6	100.0	934	8645	std	Y/Z	21-22 / 33-34
	1.50		66.2	90.0	756	7003		Y/Z	
	1.93		-	-	-	-	spec	-	-
R	1.35	540	66.2	90.0	1532	14181	std	Z	1-2 / 5-6
	1.50		58.9	80.0	1513	14006		Z	
	1.93		-	-	-	-	spec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











T-279D



4.01



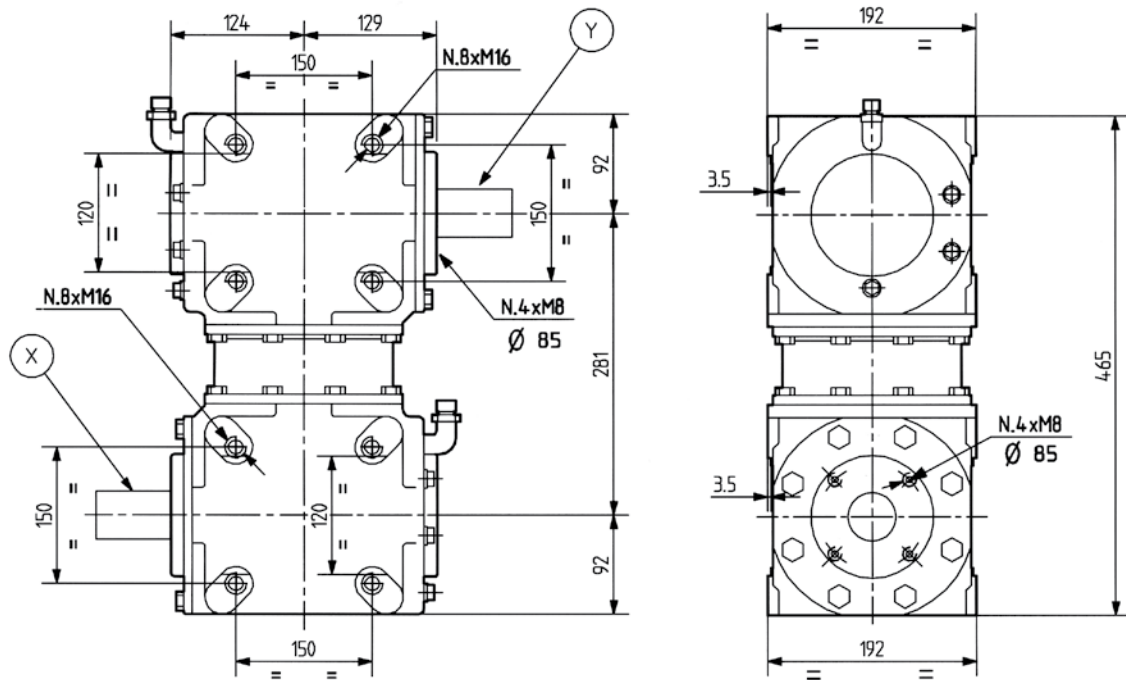
[kg]

64

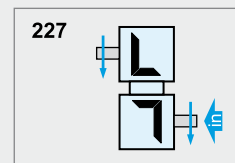


[l]

1.9+1.7



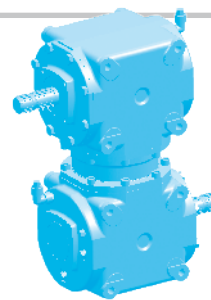
	i					std spec		Input		
		rpm	kW	HP	Nm	lb.in.				
—	⇒	1.00	540	73.6	100	-	-	std	X	227
M	⇒	1.35	540	73.6	100	-	-	std	X	227
	⇒	1.82				-	-			
R	⇒	1.35		66	90			std	X	227



T-279D-J



4.01



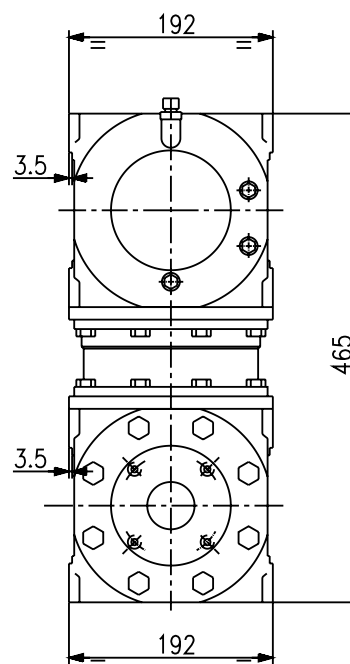
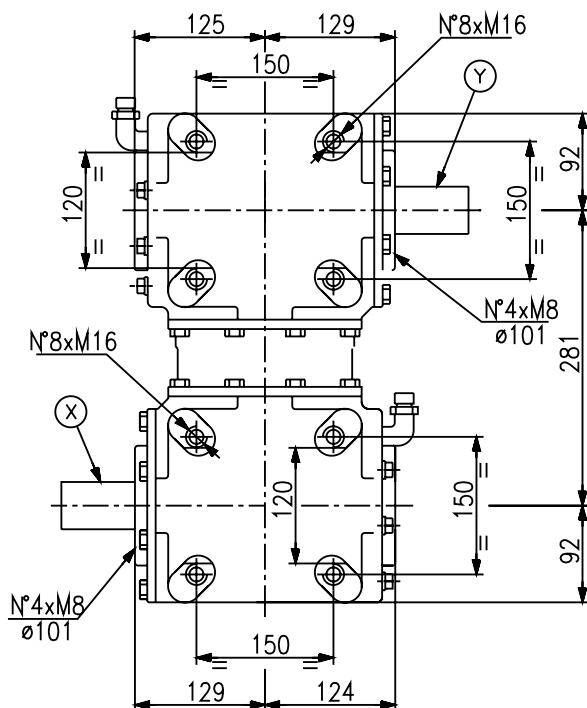
[kg]

64



[l]

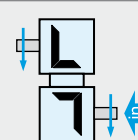
1.9+1.7



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



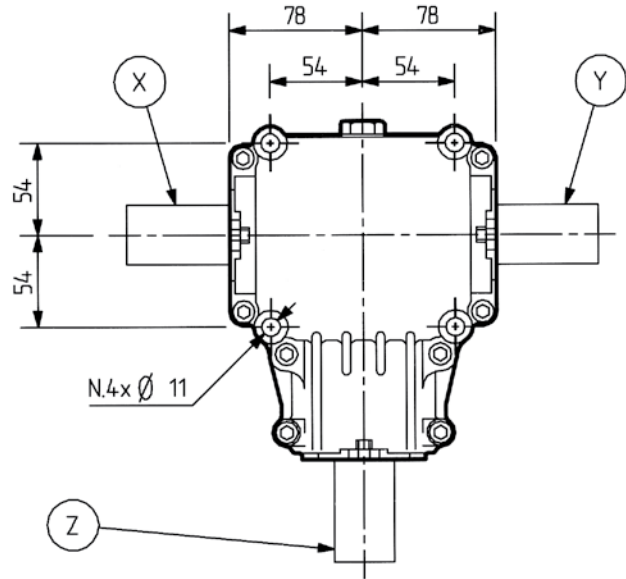
227



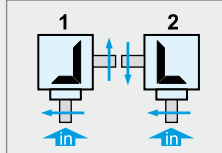
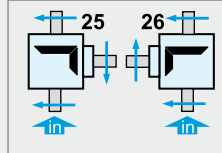
0.00

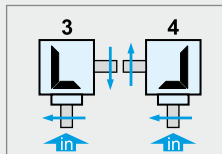
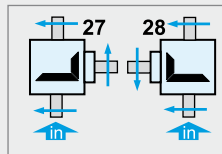


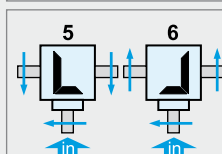
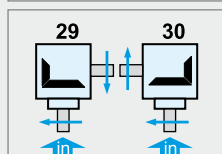
 OIL	[I]	0.5
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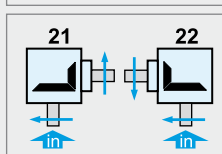
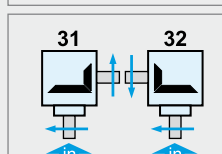


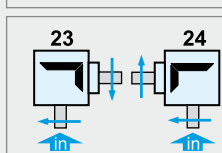
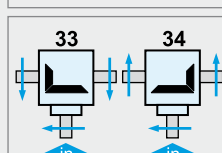
	i						std spec	Input	
M 	1.00	540	16.9	23.0	290	2684	std	Z	1-2 / 3-4 / 5-6
	1.46	540	14.7	20.0	172	1599	std	Z	21-22 / 23-24 25-26 / 27-28 29-30
	1.84		12.5	17.0	116	1078	std	X/Y/Z	21-22 / 23-24 25-26 / 27-28 31-32 / 33-34
	2.16		10.3	14.0	81	756	std	X/Y/Z	21-22 / 23-24 25-26 / 27-28
	2.91		8.1	11.0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

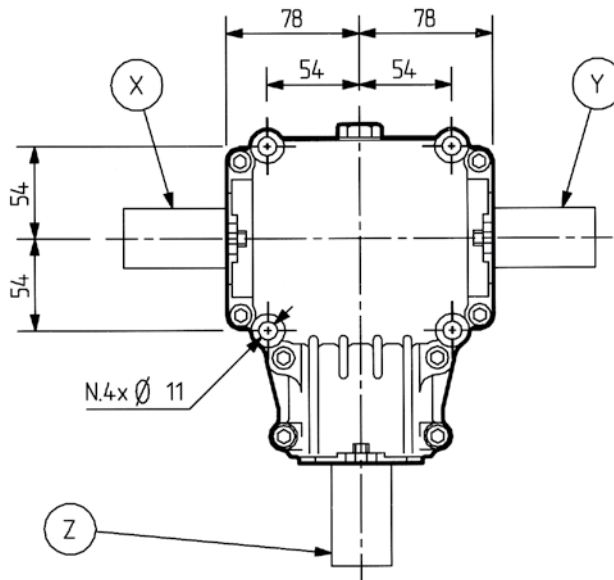
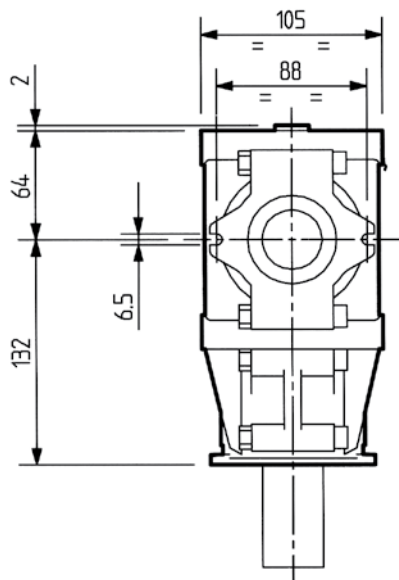
T-281J



0.00



	[kg]	7		[l]	0.5
--	------	---	--	-----	-----



	i		rpm		kW	HP		Nm	lb.in.	std spec	Input	
M	1.00	540	16.9	23.0	290	2684	std	Z	1-2 / 3-4 / 5-6			
	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				116	1078			21-22 / 23-24 25-26 / 27-28 31-32 / 33-34	X/Y/Z		
	2.91				47	441				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						

1 2

23 24

25 26

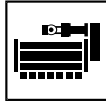
27 28

29 30

31 32

33 34

TL-281E



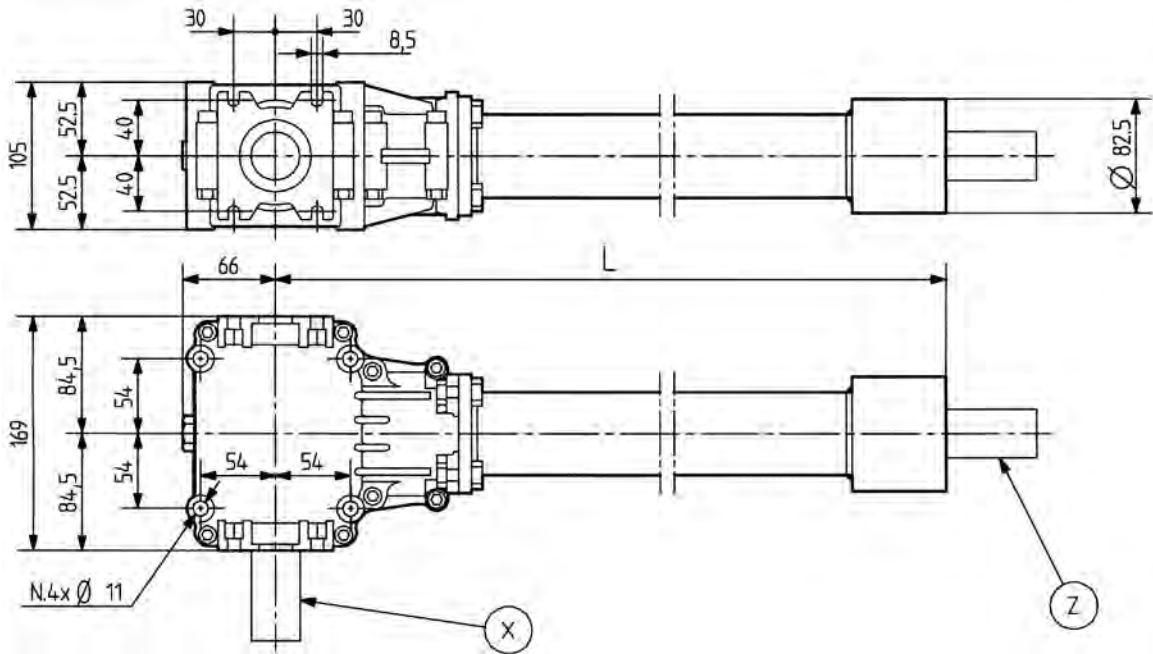
1.01



[kg]

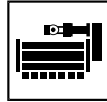


[l]



	i				std spec		L (mm)	Code		
		rpm	kW	HP						
M → +	1.85	540	14.7	20.0	std	X	530		21-22	
	2.91						530			
	2.91		9.6	13.0			615			
	2.91						715			

TL-281E



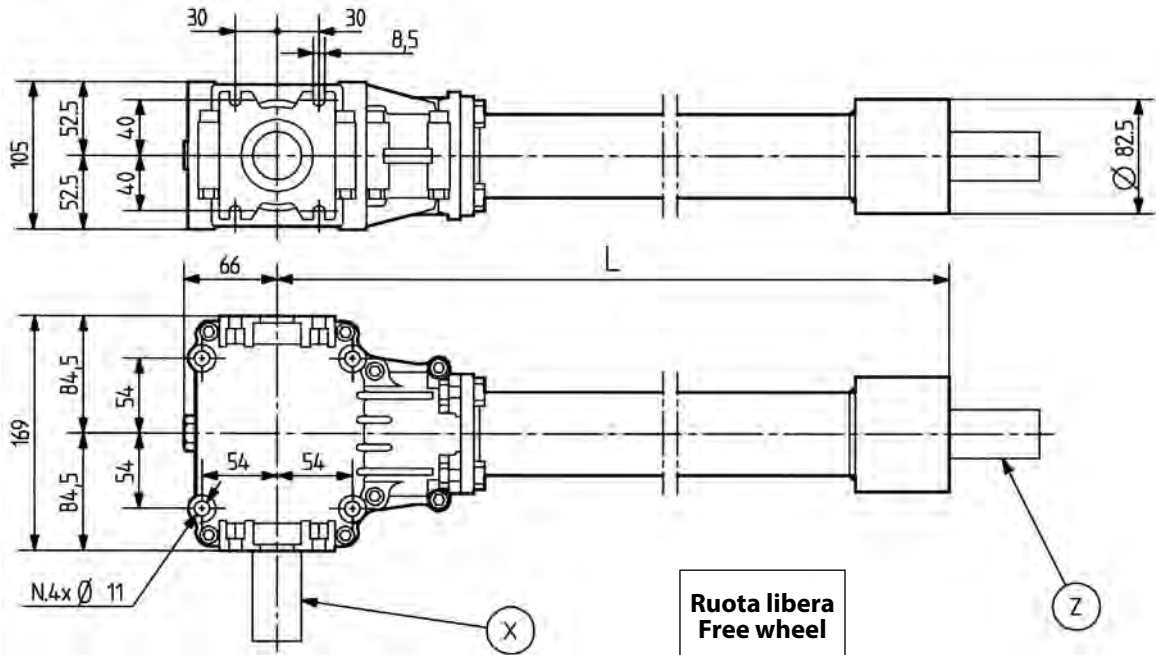
1.01



[kg]

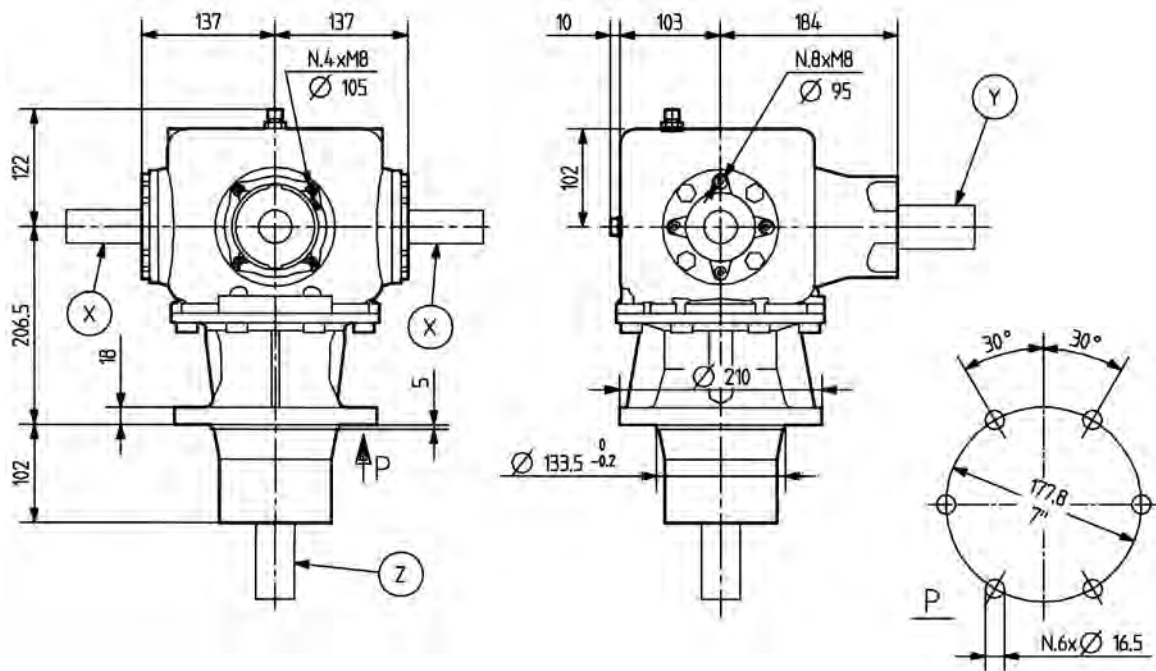


[l]



M	i				std		L	Code	21-22	
		rpm	kW HP	Nm lb.in.	spec	Input	(mm)			
M	2.91	540	9.6 13.0	56 521	std	X	530			
	2.91						715			

1.03



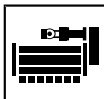
	i						std spec		
M		rpm	kW	HP	Nm	lb.in.		Input	
	1.20	540	-	-	-	-	spec	Y	233
	1.86		84.0	115	780	7216	std		

233

T-290A



0.00



1.01
T-290D



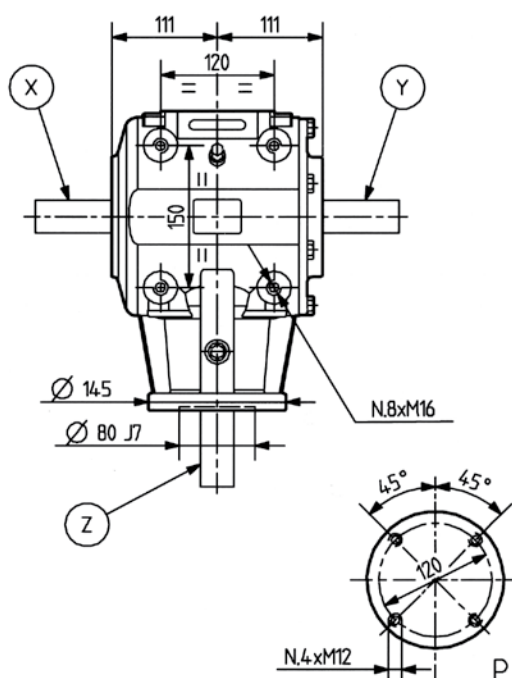
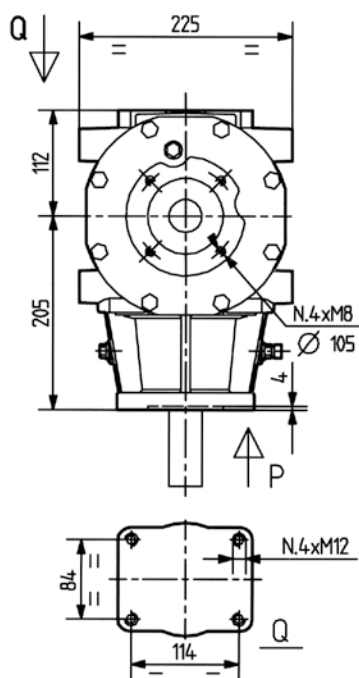
[kg]

31



[l]

2.3



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

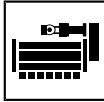
NOTA: Disponibile con ruota libera su corona (i = 1.62 / 2.42 / 3.00).

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

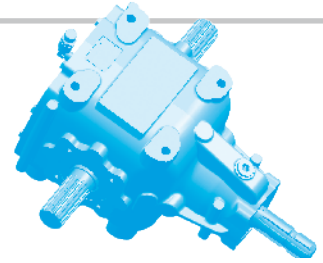
T-290HD



0.00



1.01
T-290D



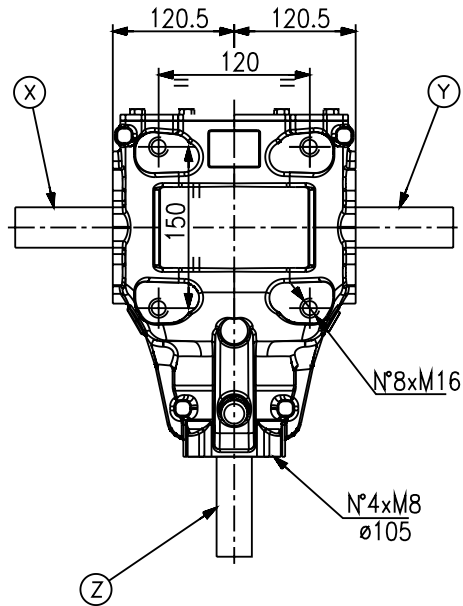
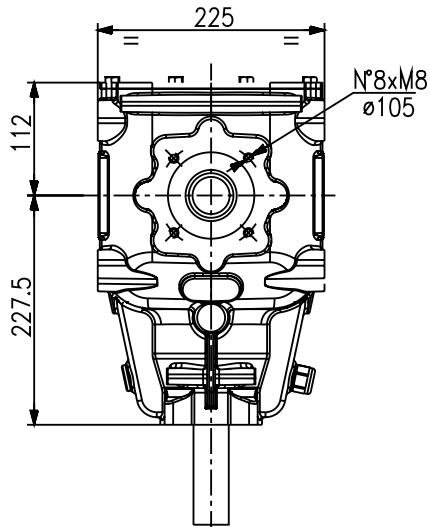
[kg]

41

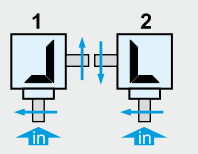


[l]

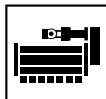
2.3



i						std spec		Input	
	rpm	kW	HP	Nm	lb.in.				
R → + →	1.63	540	78.0	106	2180	20165	std	X	1-2
	3.0	1000	58	79	1690	15632			



TL-290D



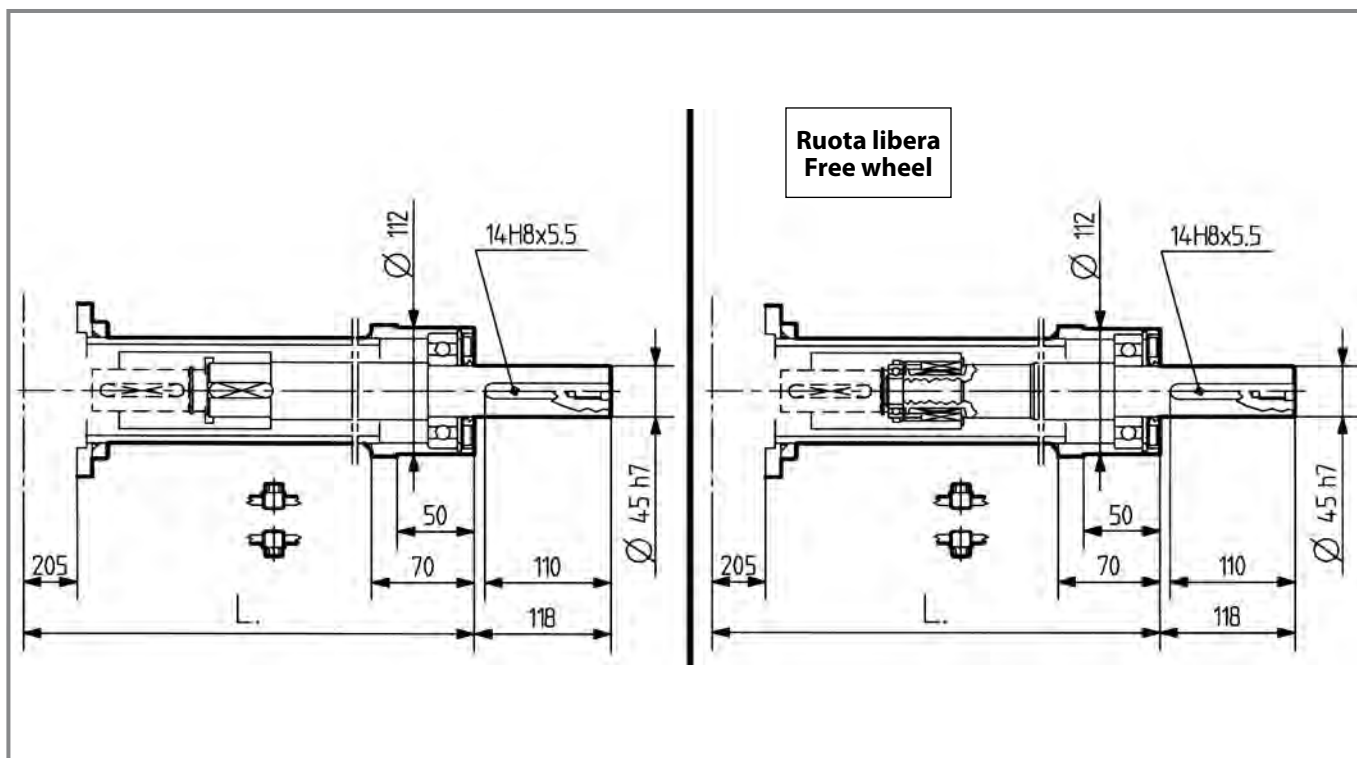
1.01



[kg]



[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

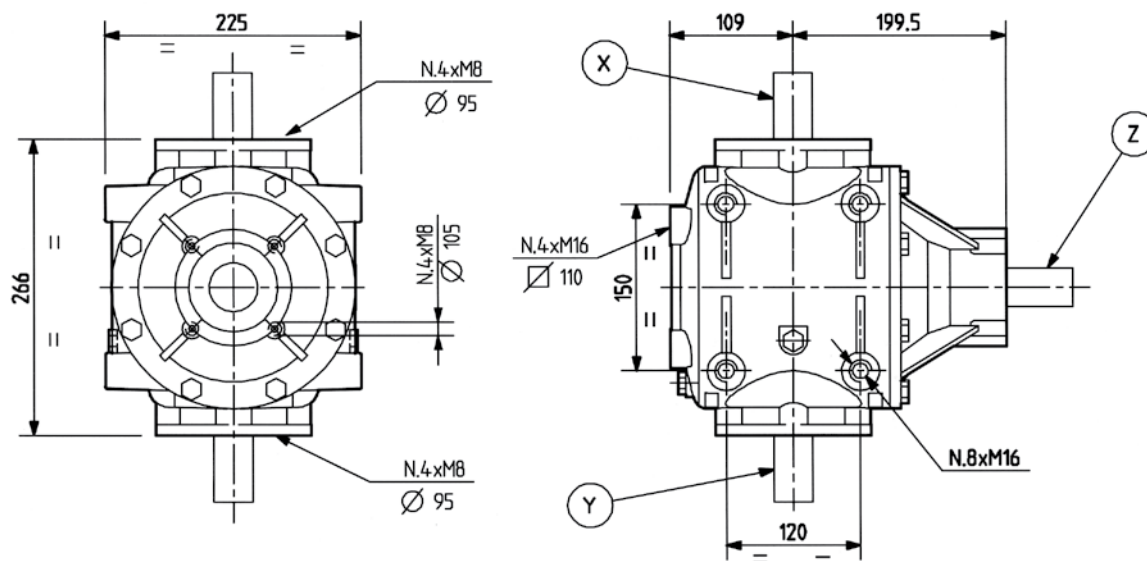
T-292B



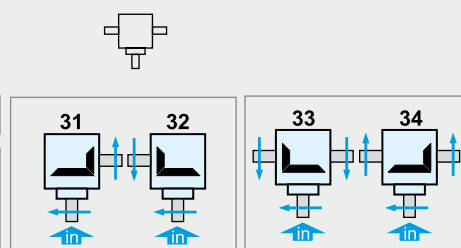
0.00



	[kg]	33		[l]	2.5
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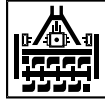
	i				std spec	Input	
		rpm	kW	HP	Nm	lb.in.	
M	1.00	540	61.8	84.0	1059	9804	std
	1.47		66.2	90.0	772	7146	
	1.62	540	-	-	-	-	
	1.86		62.5	85.0	576	5334	std
	2.07	40	-	-	-	-	
R	3.00	540	57.3	78.0	-	-	
	1.47		-	-	-	-	
	1.62		-	-	-	-	
	1.86	540	-	-	-	-	std
	2.07		-	-	-	-	
	3.00		-	-	-	-	
			-	-	-	-	
			-	-	-	-	
			-	-	-	-	
			-	-	-	-	



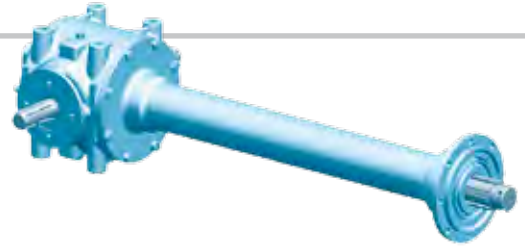
NOTA: Disponibile con ruota libera su corona
(i = 1.00 / 1.62 / 1.86).

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

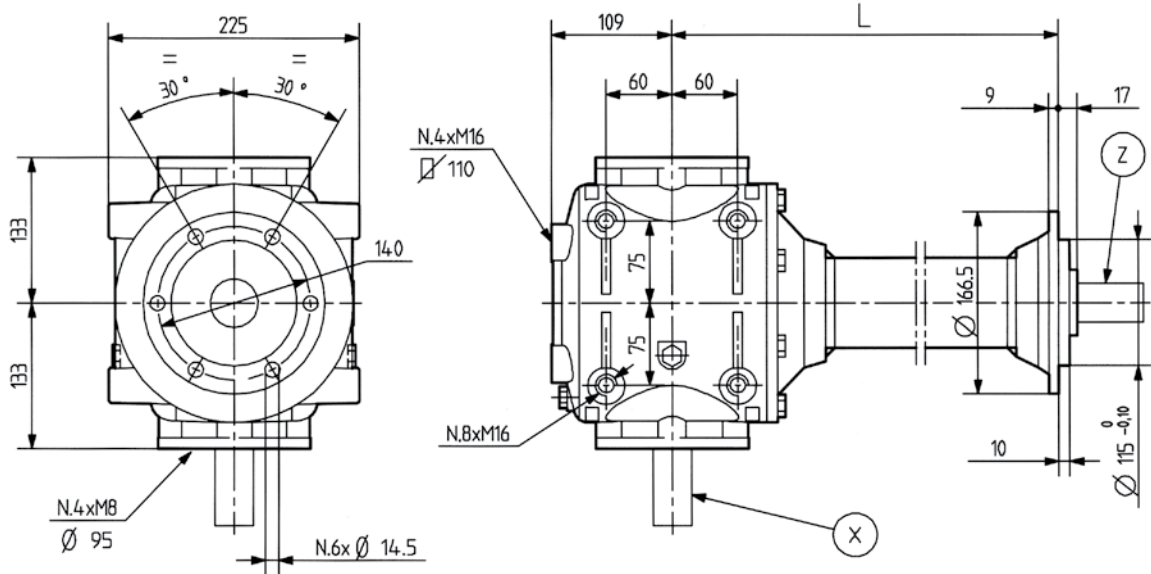
TLZ-292A



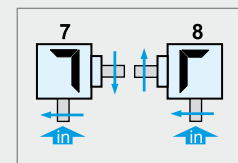
2.01



	kg	[kg]	-		OIL	[l]	-
--	----	------	---	--	-----	-----	---



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



T-301A



0.00



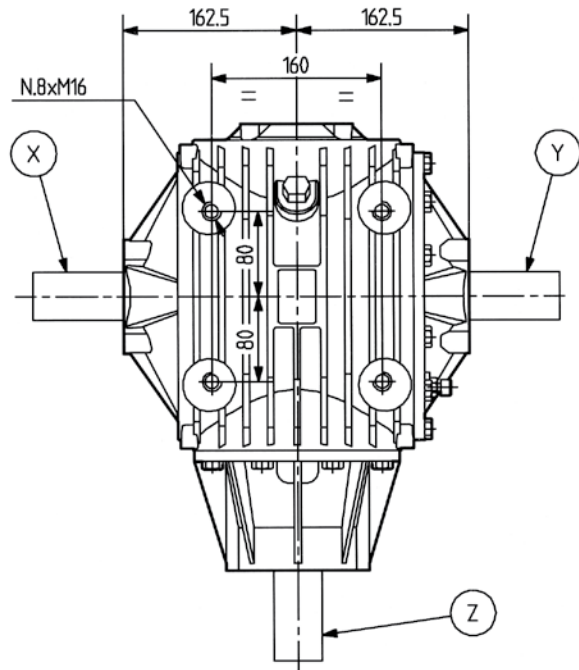
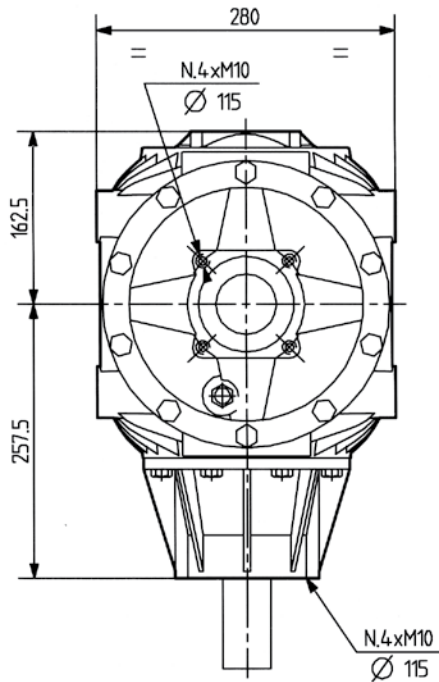
[kg]

61.5

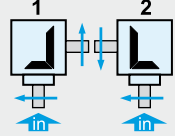
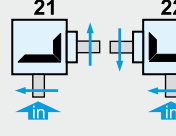
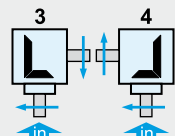
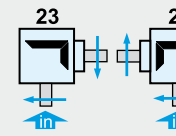
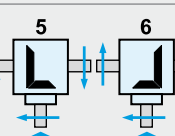
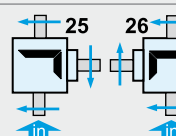


[l]

4.4



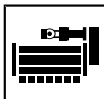
	i				std spec		Input
		rpm	kW	HP	Nm	lb.in.	
M → + →	1.35		103	140	1308	12110	std
	1.60	540	95.6	130	1025	9488	
	1.93		80.9	110	719	6659	
R → + →	1.35		95.6	130	2213	20494	std
	1.60	540	88.2	120	2421	22421	
	1.93		77.2	105	2555	23665	

	
1 2	
21 22	
3 4	
23 24	
5 6	
25 26	

T-301B



0.00



1.01



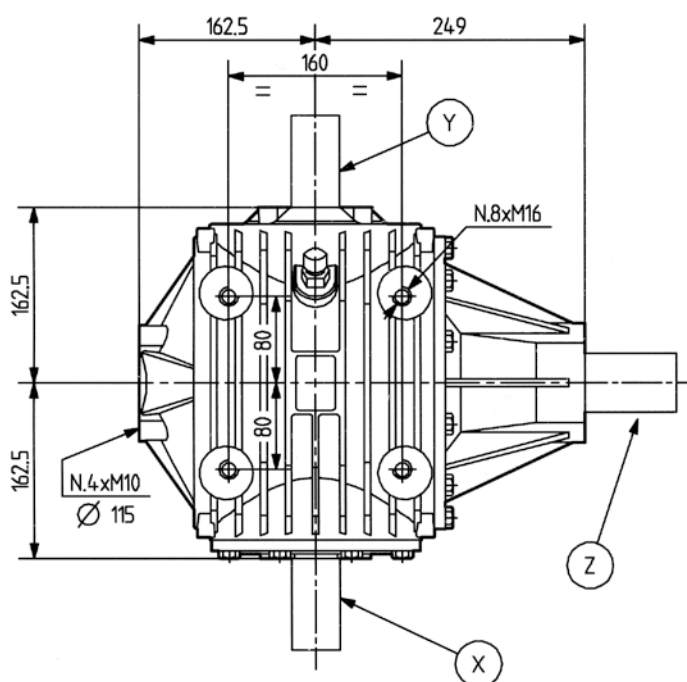
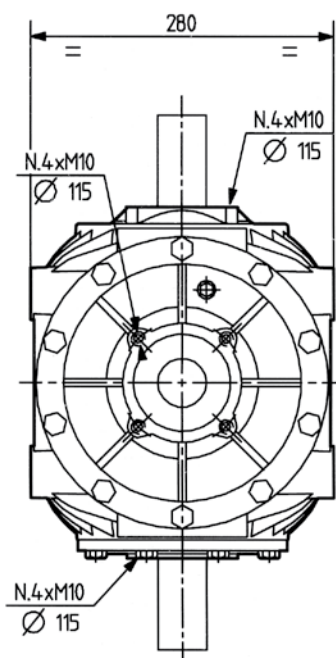
[kg]

61.5



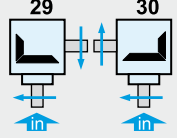
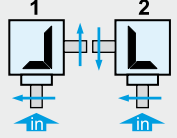
[l]

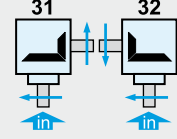
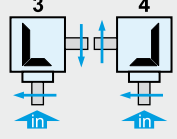
4.4

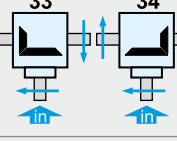
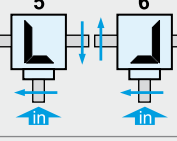


	i						std spec		
		rpm	kW	HP	Nm	lb.in.			
M	1.00	540	110	150	1891	17512	std	Z	29-30 / 31-32 33-34
	1.35*	1000	142	193	973	9010	std	Z	33-34
	1.60*		110	150	638	5908			
	1.93*		107	145	511	4769			
	1.35	540	103	140	1308	12110	std	Y	29-30 / 31-32 33-34
	1.60		95.6	130	1025	9488			
1.93	80.9		110	719	6659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









* Disponibile con ruota libera su corona.

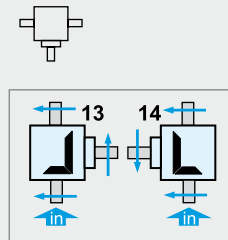
* Available version with free wheel on crown.

* Disponibile con ruota libera su corona.

* Available version with free wheel on crown.

2.02

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



T-304A



0.00

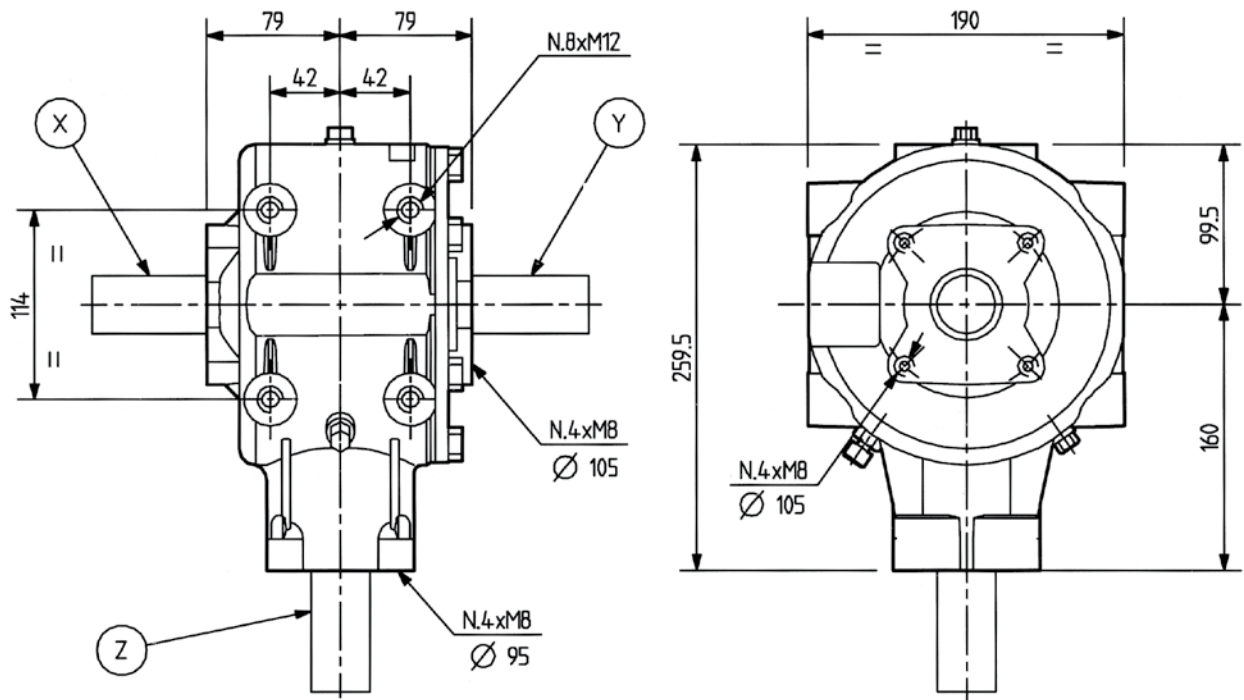


2.04

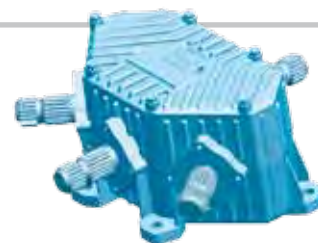
Vers. T-304C



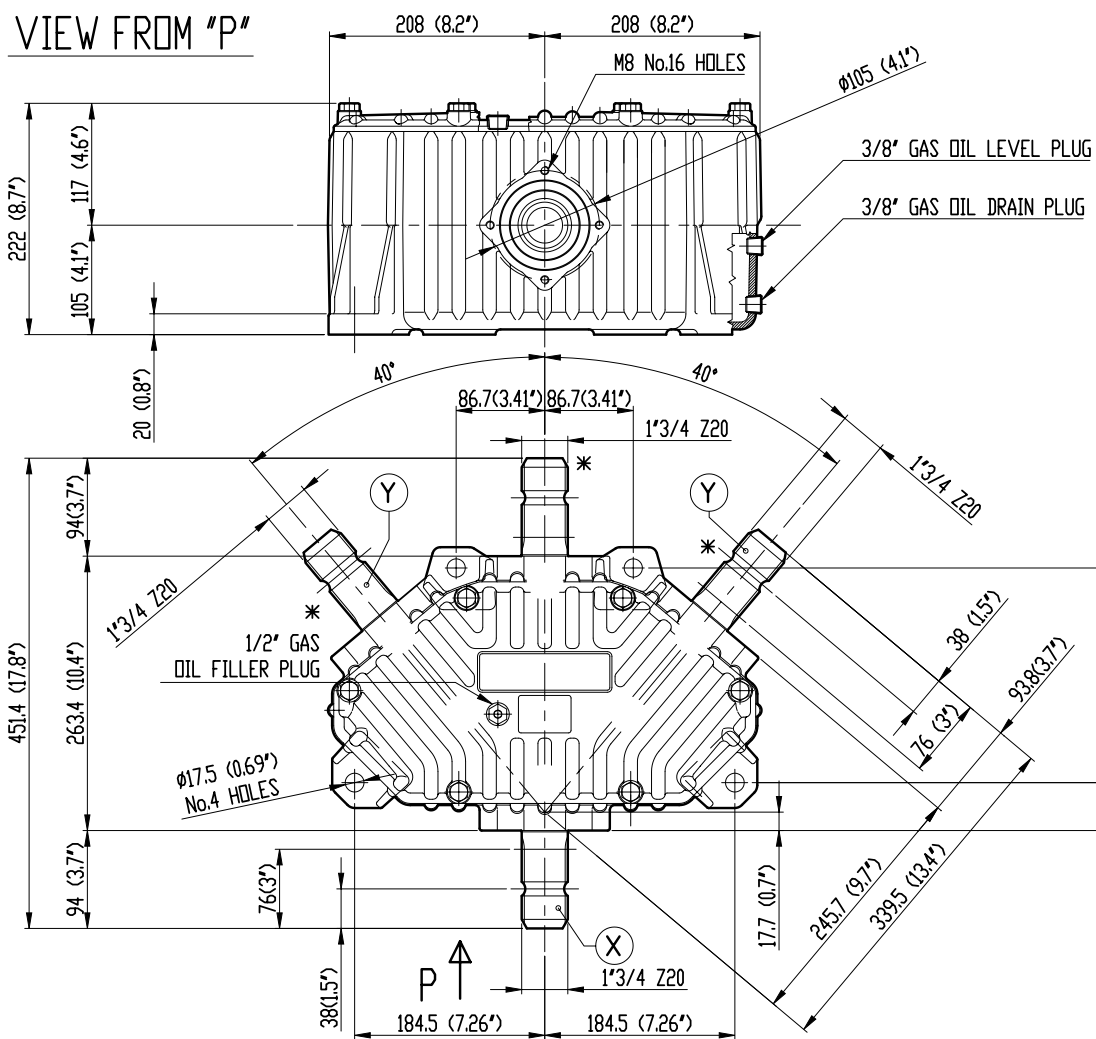
	[kg]	19		[l]	1.1
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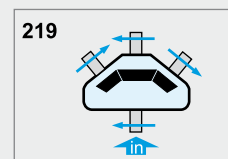
	i				std spec	Input	
		rpm	kW HP	Nm lb.in.			
M	1.50	750	36.7 50.0	- -	spec	X	21-22
	1.60	900	36.7 50.0	- -	spec	Z	3-4
	1.93	540	40.4 55.0	35.9 3328	std	X-Y	21-22 / 23-24 25-26 / 27-28
	2.14	430	36.7 50.0	- -	spec	X	21-22
	3.00	540	36.8 50.0	21 1946	std	X-Y	21-22 / 23-24 25-26 / 27-28
	4.50		28.0 38.0	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			



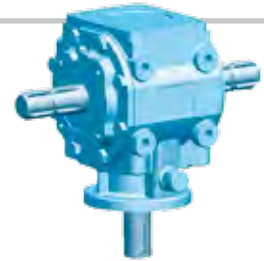
	[kg]	30
	[l]	3.2



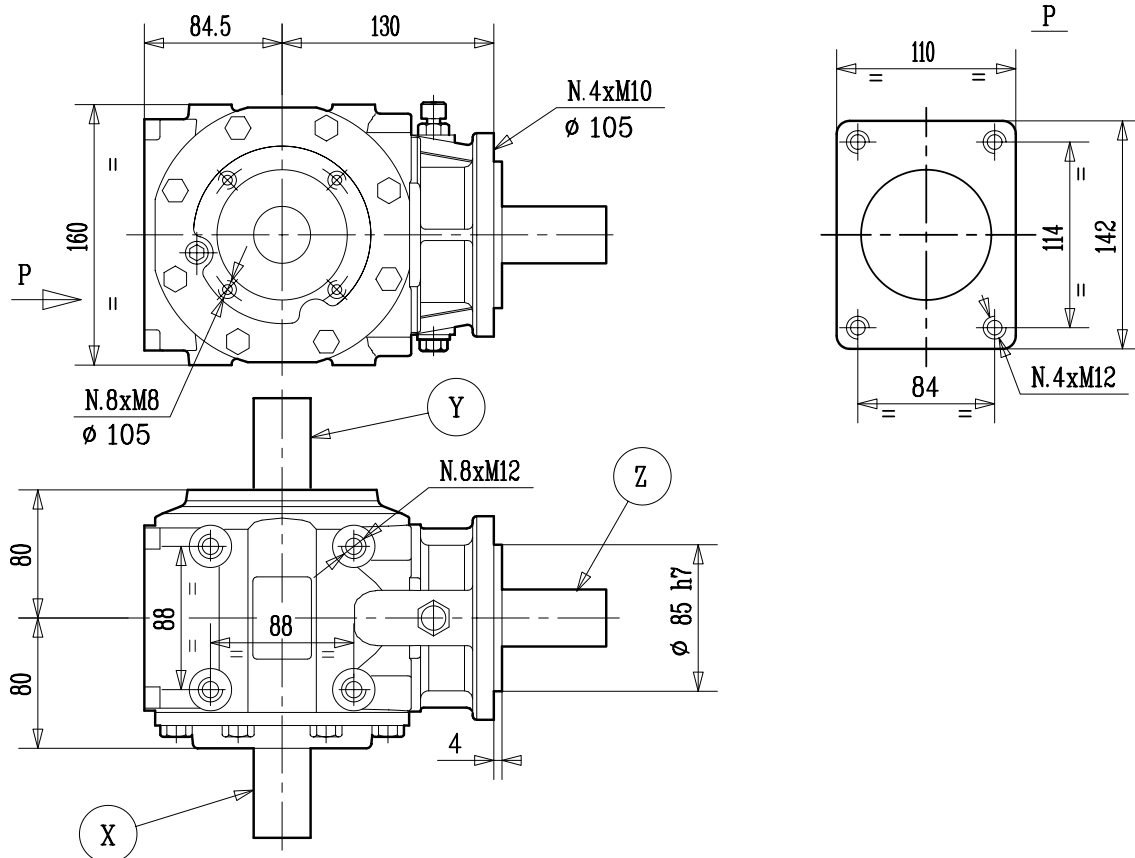
	i	 rpm	 kW HP	 Nm lb.in.	std spec	 Input	
M 	1.20	540	184 250	- -	std	X	219
R 	1.20 1.35	1000	184 250	- - - -	std	X	219



Vers. TL-310D



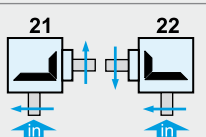
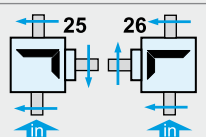
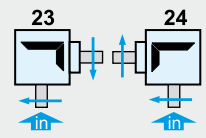
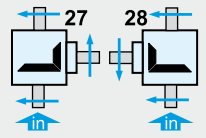
	[kg]	18		[l]	0.8
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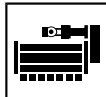
		i						std spec		
			rpm	kW	HP	Nm	lb.in.		Input	
M 	1.66	1000	43.4	59.0	-	-	std spec std	X-Y	21-22 / 23-24 25-26 / 27-28	
	1.93	540	29.4	40.0	-	-				
	2.50		25.7	35.0	-	-				
	3.00		22.0	22.0	-	-				

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

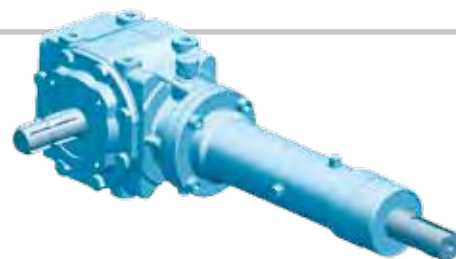
NOTE: Available version with free wheel on crown
(i = 1.66 / 1.93 / 3.00).

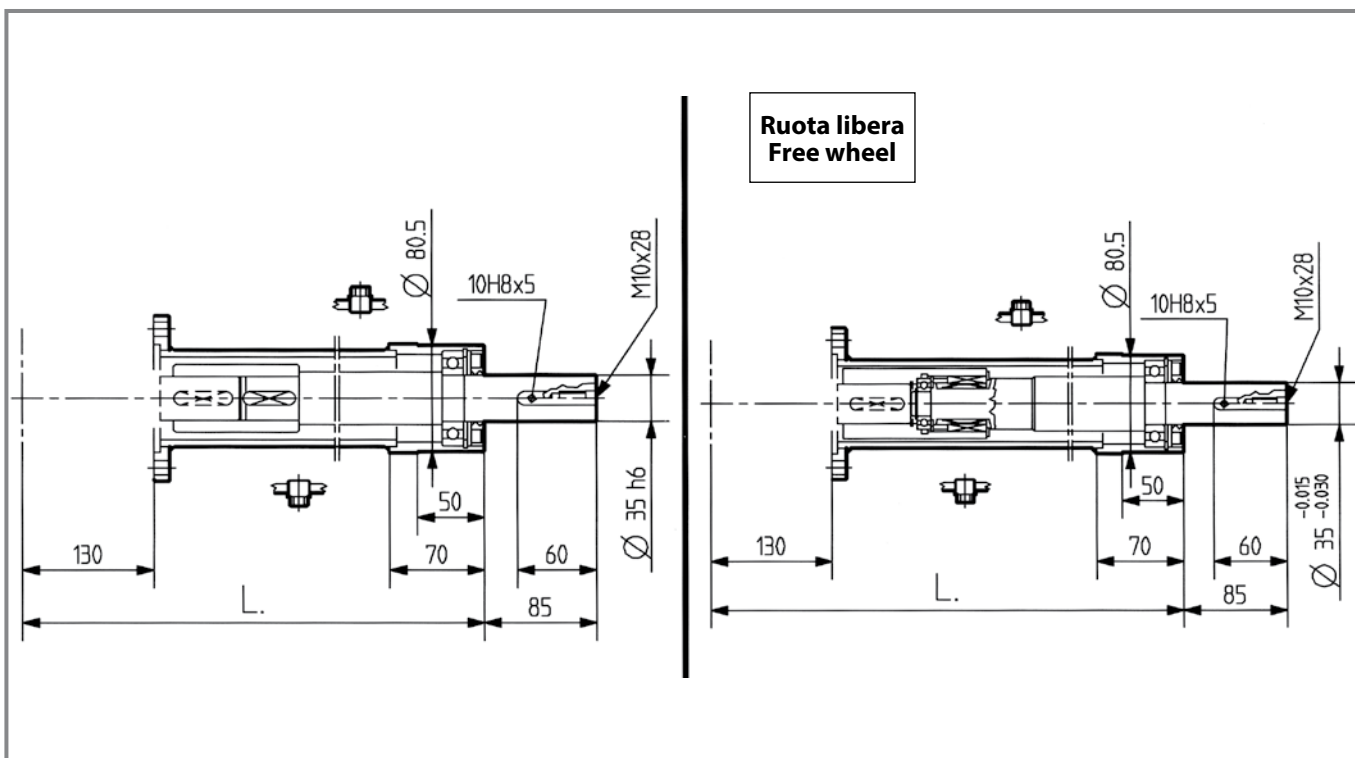
TL-310D



1.01



	[kg]	-		[l]	-
---	------	---	---	-----	---



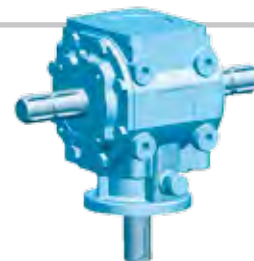
L(mm)	Code
430	310.500
530	310.502
615	310.501
715	310.503

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

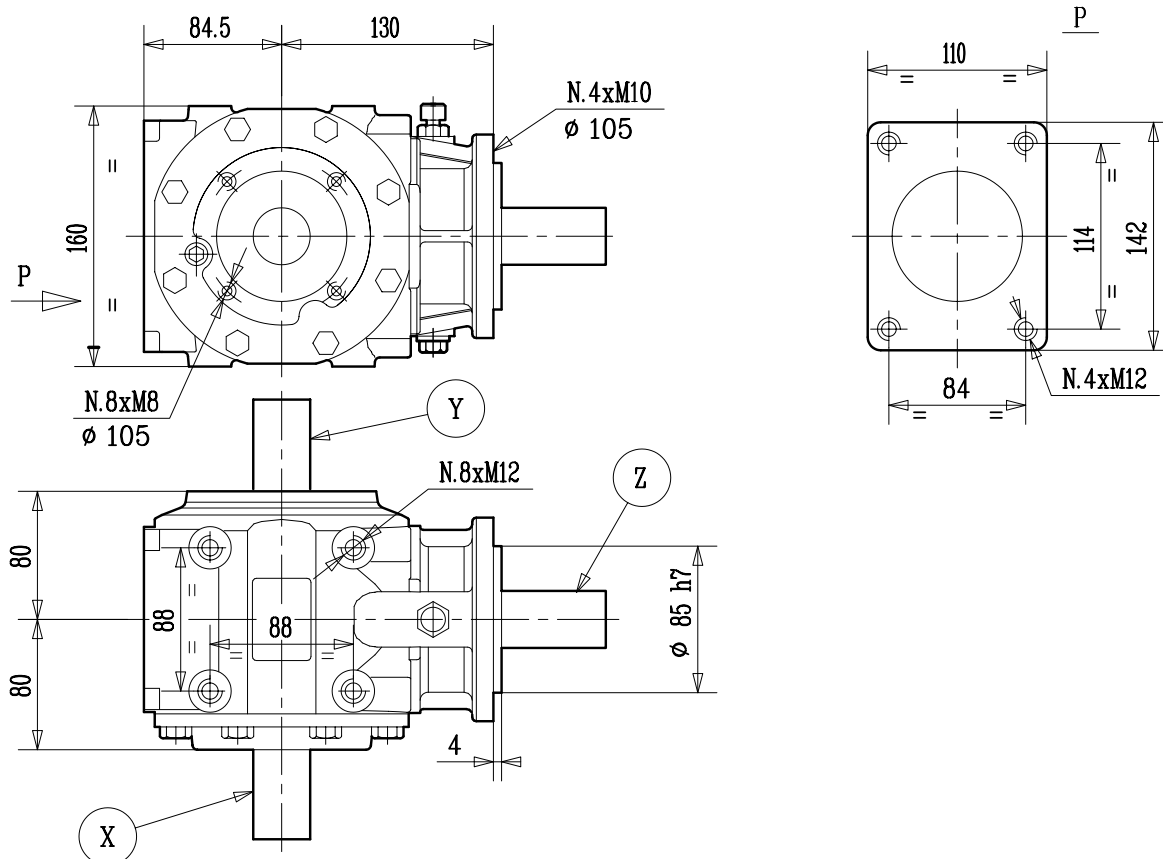
T-310J



0.00



	[kg]	18		[l]	0.8
--	------	----	--	-----	-----

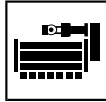


	i				std spec	Input	
		rpm	kW	HP			
M	1.66	1000	43.4	59.0	-	-	X-Y
	1.93		29.4	40.0	-	-	
	2.50	540	25.7	35.0	-	-	
	3.00		22.0	22.0	-	-	
21-22 / 23-24 25-26 / 27-28							

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).

TP-310E



1.01



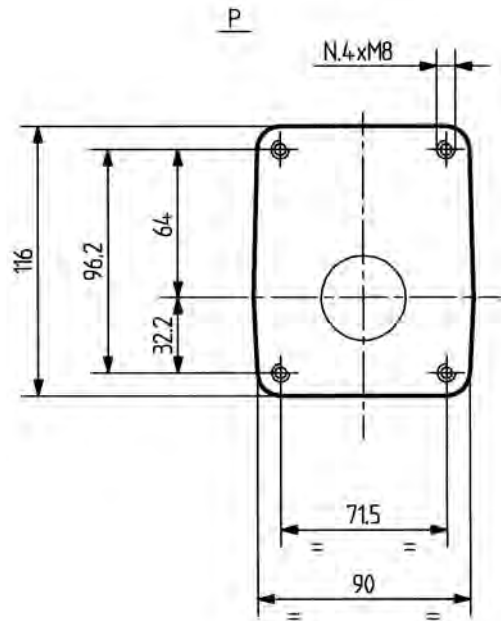
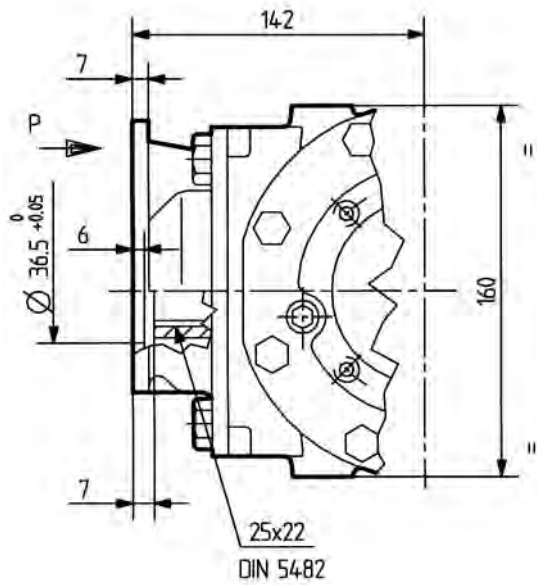
[kg]

20



[l]

0.8



	i				std spec		Input
		rpm	kW HP	Nm lb.in.			
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	



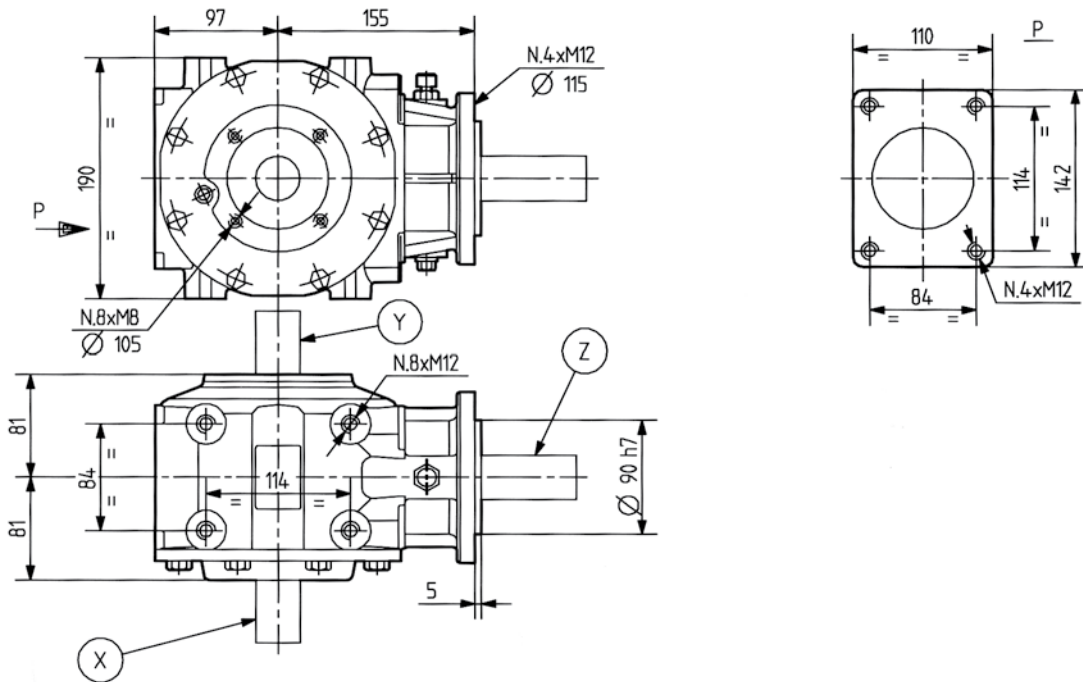
T-311A



0.00

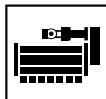


	[kg]	23.5		[l]	1.2
---	------	------	---	-----	-----



	i				std spec		Input				
		rpm	kW	HP							
M → +	1.60	1000	57.3	78.2	320	2962	std	X	21-22 / 23-24 27-28		
	1.93		44.4	55.0	359	3328					
	2.50	540	38.2	52.0	262	2429					
	3.00		36.7	50.0	210	1946					

TL-311D



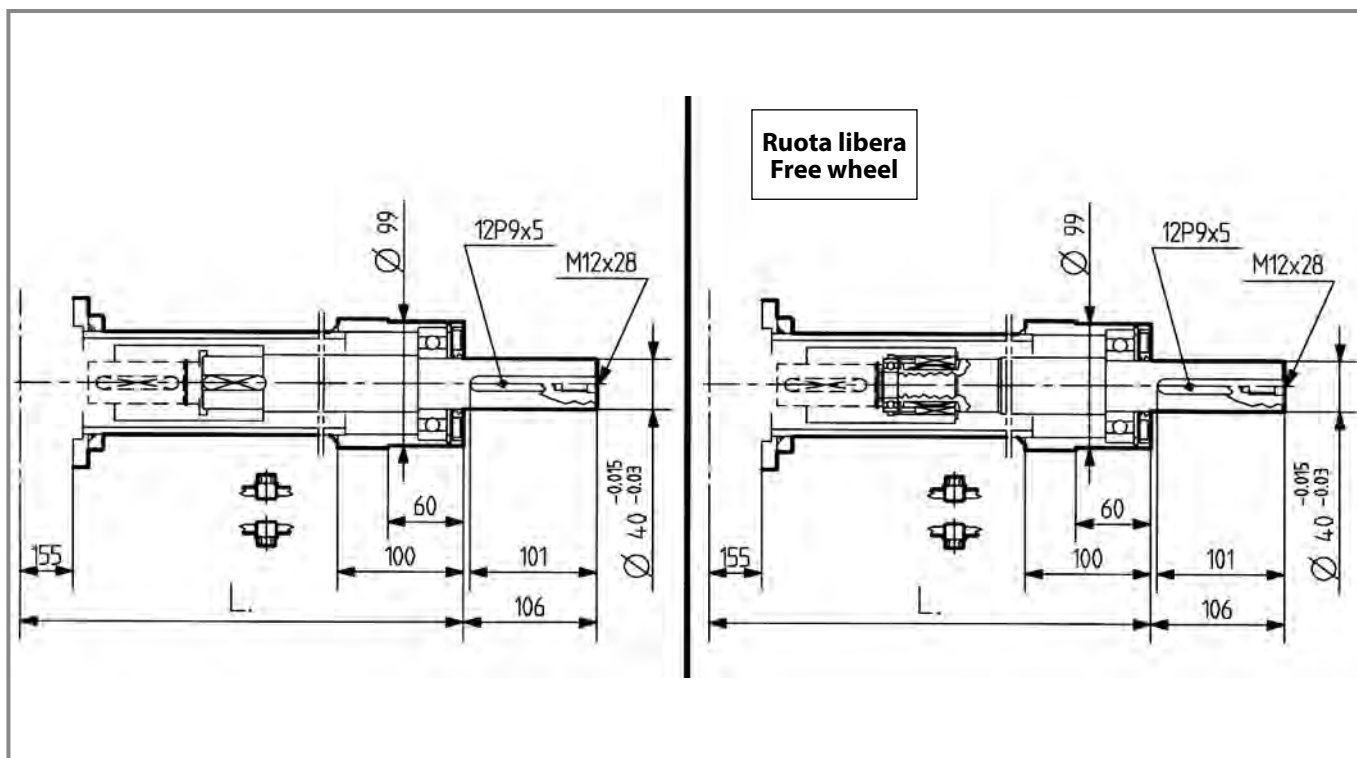
1.01



[kg]



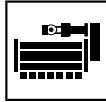
[l]



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



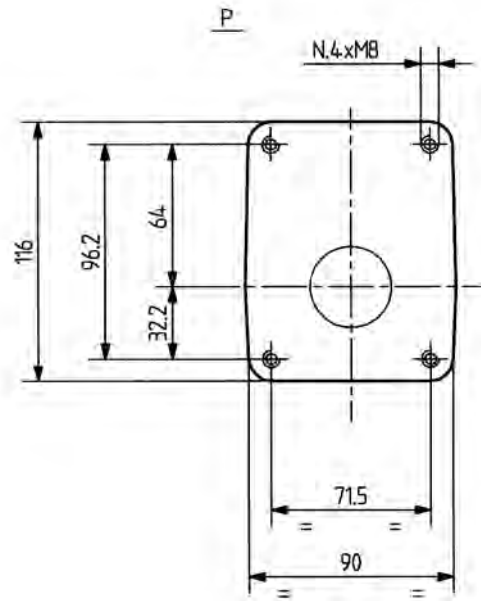
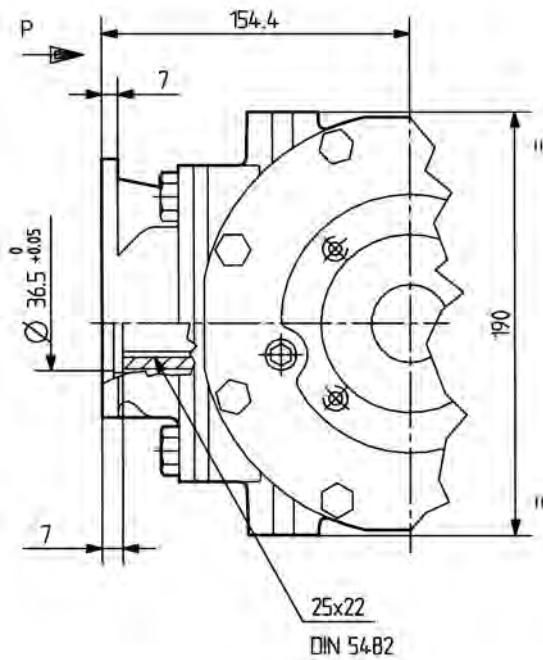
[kg]

25.5



[l]

1.2

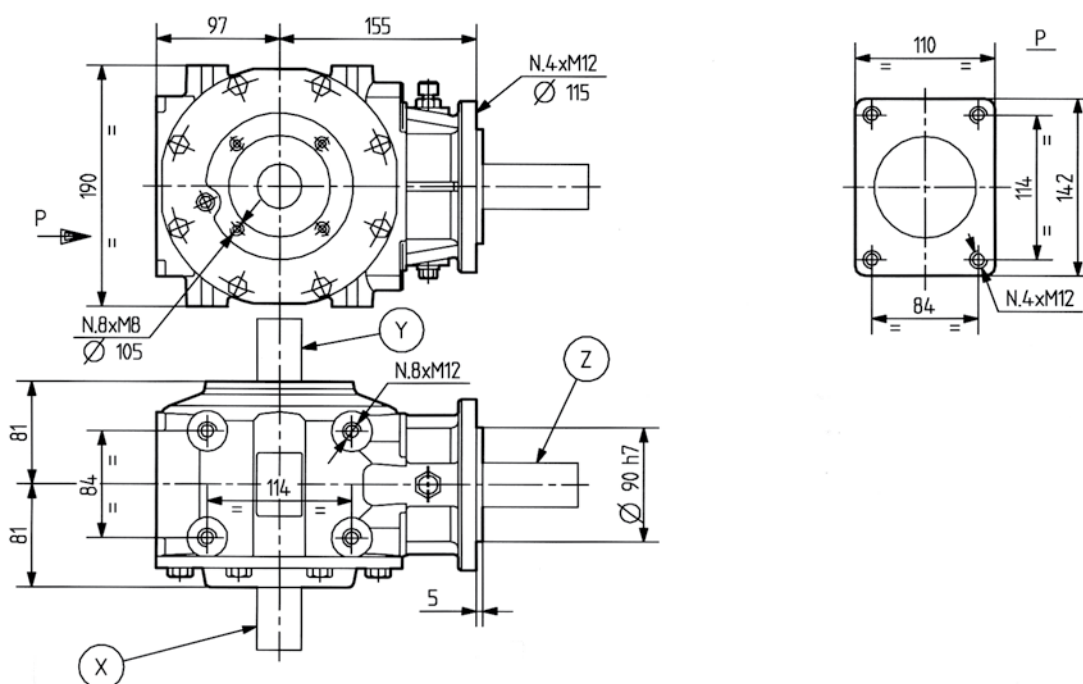


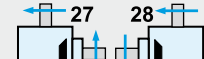
	i		rpm		kW	HP		Nm	lb.in.	std spec		Input	
M $\Rightarrow$ 	1.60		540		41.9	57.0		449	4160	std			
	1.93				44.4	55.0		359	3328				
	2.50				38.2	52.0		262	2429				
	3.00				36.7	50.0		210	1946				

0.00



	[kg]	23.5		[l]	1.2
---	------	------	---	-----	-----



M ➡ +	i						std spec		Input			
		rpm	kW	HP	Nm	lb.in.						
	1.60	1000	57.3	78.0	320	2962	std	X	21-22 / 27-28			
	1.93	540	-	-	-	-						
	2.50	540	-	-	-	-						
3.00	540	36.8	50.0	210	1946							

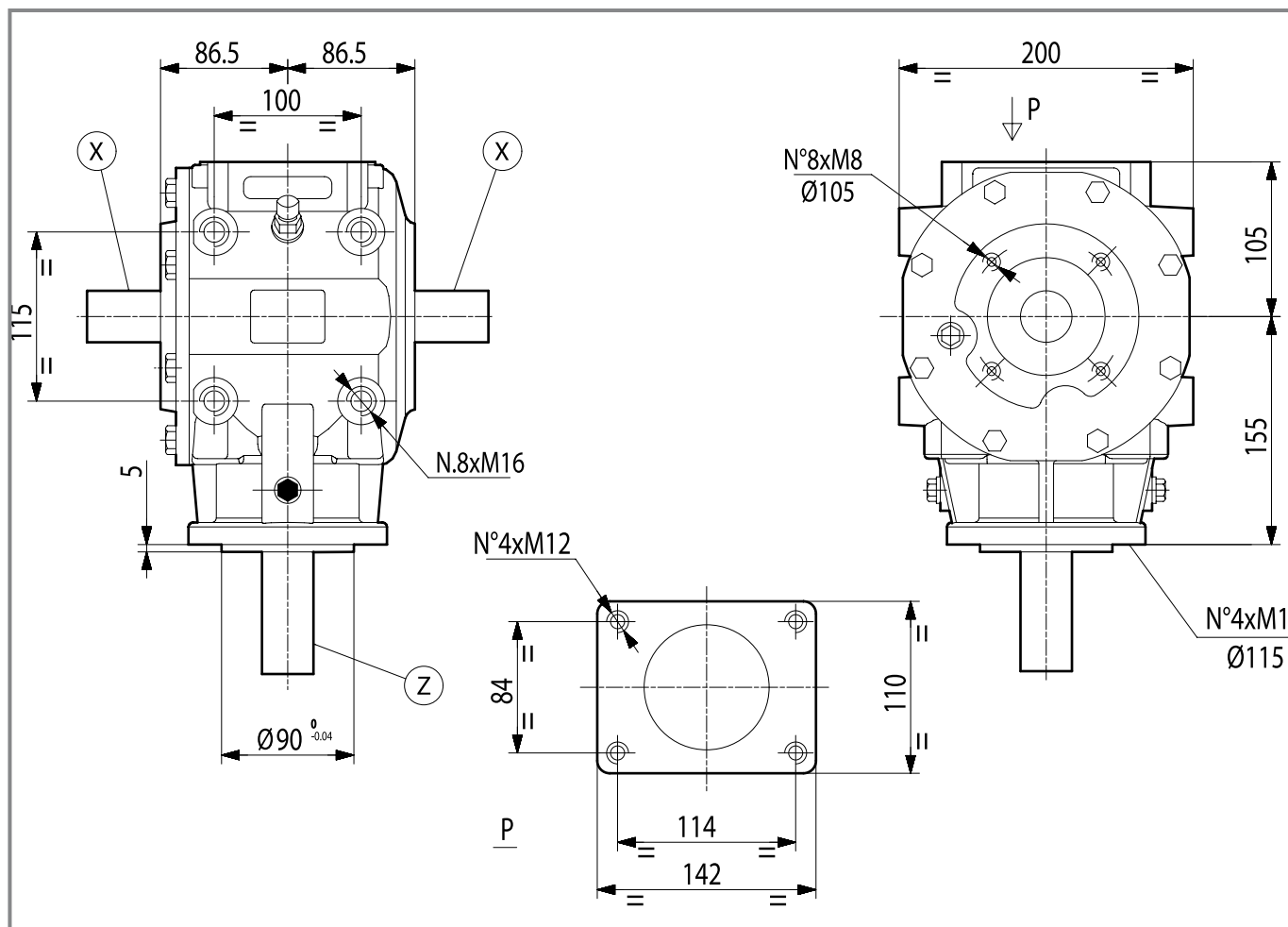
NOTA: Disponibile versione mono-fase.

NOTA: Disponibile versione ruota libera.
NOTE: Available version with free wheel.

0.00



	[kg]	27		[l]	1.5
---	------	----	---	-----	-----

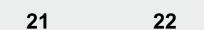


M ➡ +	i					std spec			
		rpm	kW	HP	Nm	lb.in.	Input		
	1.60	1000	76.5	104	-	-	std	X	21-22 / 27-28
	1.93	540	63.7	73.0	-	-			
	2.50	540	50.0	68.0	-	-			
3.00	540	45.6	62.0	-	-				



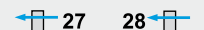
21

22



27

28



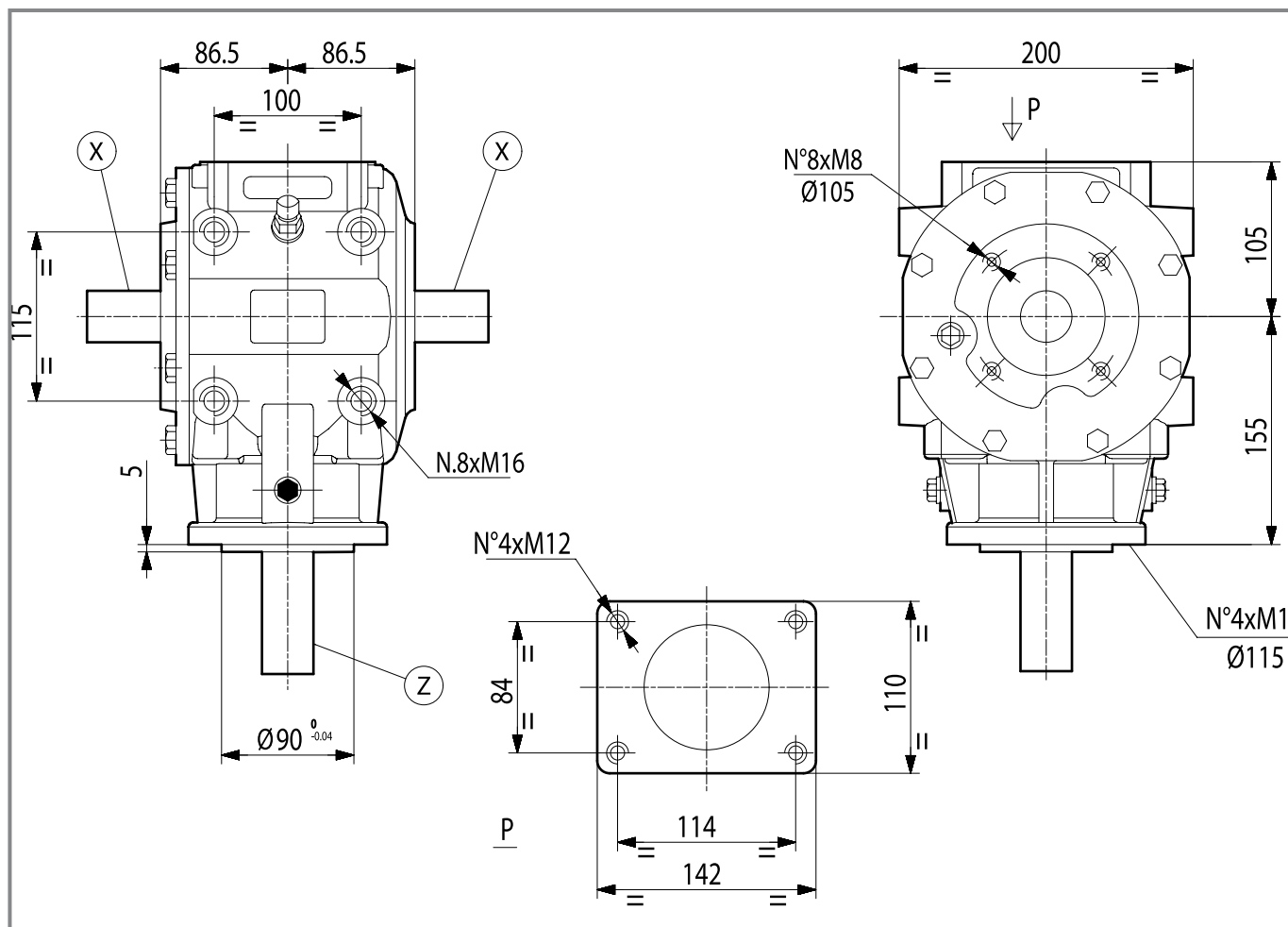
NOTA: Disponibile versione ruota libera

NOTA: Disponibile versione ruota libera.
NOTE: Available version with free wheel.

0.00



	[kg]	19		[l]	1.5
---	------	----	---	-----	-----



M ➡ +	i					std spec			
		rpm	kW	HP	Nm	lb.in.		Input	
	1.60	1000	76.5	104	-	-	std	X	21-22 / 27-28
	1.93	540	63.7	73.0	-	-			
	2.50	540	50.0	68.0	-	-			
3.00	540	45.6	62.0	-	-				



21

22



27

28

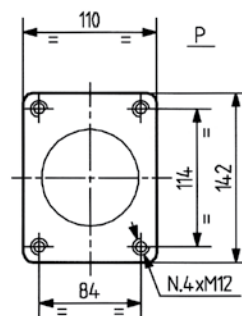


NOTA: Disponibile versione con ruota libera

NOTA: Disponibile versione con ruota libera.
NOTE: Available version with free wheel.



1.5



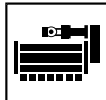
M ⇒ +	i				std spec		Input						
		rpm	kW	HP	Nm	lb.in.							
	1.60	1000	76.5	104	427	3949					std	X	21-22 / 23-24 27-28
	1.93		53.7	73.0	477	4417							
	2.50	540	50.0	68.0	343	3176							
3.00		45.6	62.0	261	2413								

NOTA: Disponibile versione con ruota libera.

NOTE: Available version with free wheel.

NOTA: Disponibile versione con ruota libera.
NOTE: Available version with free wheel.

TL-312D



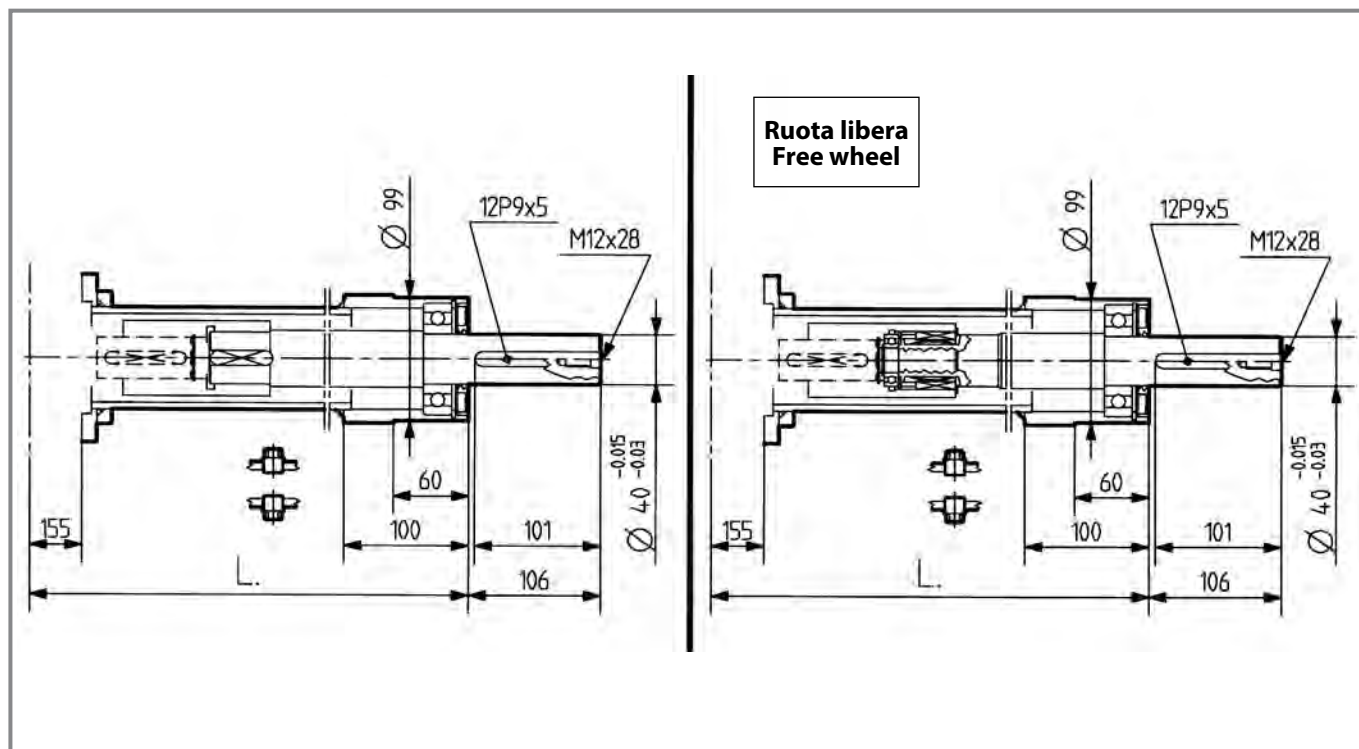
1.01



[kg]



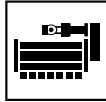
[l]



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



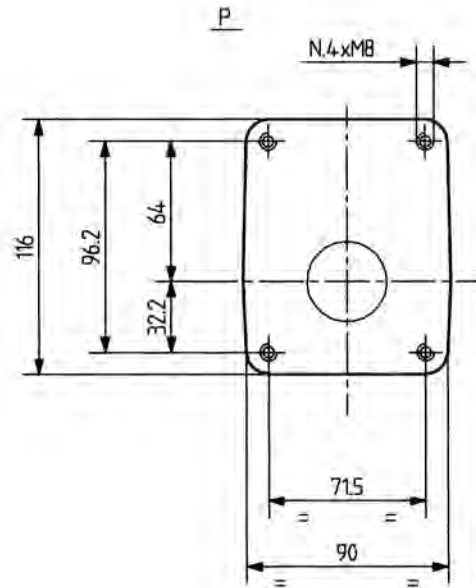
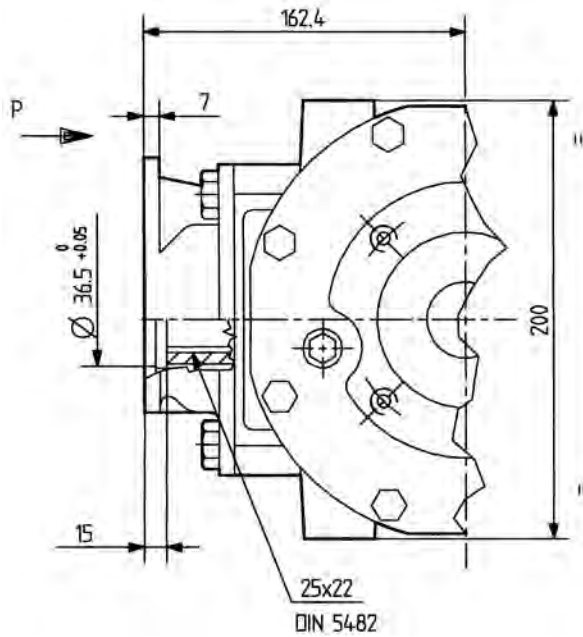
[kg]

29



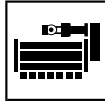
[l]

1.5



	i				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



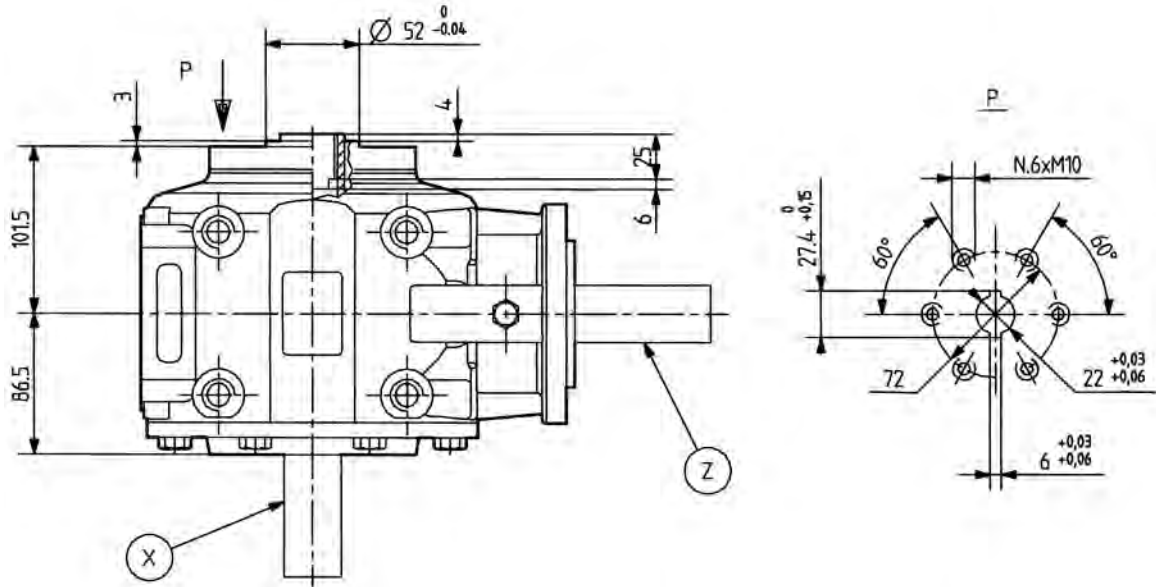
[kg]

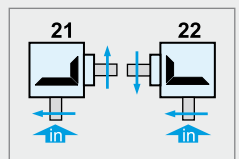
28



[l]

2.5



	i				std spec		Input	
		rpm	kW	HP				
M → +	1.60	540	55.9	76.0	std	X	21-22	
	1.93		53.7	73.0				
	2.50		50.0	68.0				
	3.00		45.6	62.0				

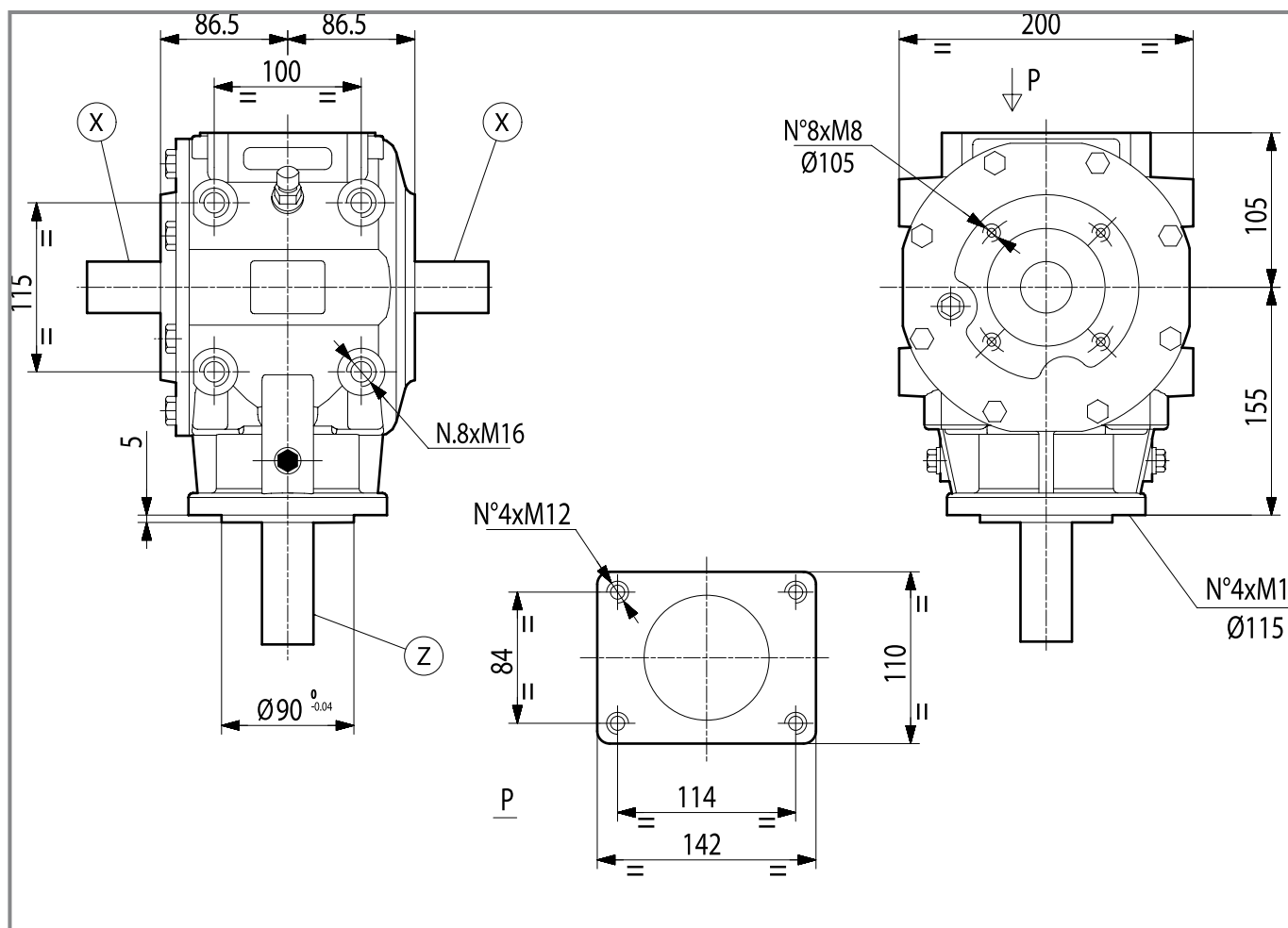
T-313J



0.00



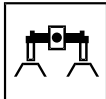
	[kg]	27		[l]	1.5
--	------	----	--	-----	-----



	i				std spec					
		rpm	kW	HP	Nm	lb.in.				
	1.60	1000	76.5	104	-	-				
	1.93	540	63.7	73.0	-	-				
	2.50	540	50.0	68.0	-	-				
M →	3.00	540	62.0	45.6	-	-	std	X	21-22 / 27-28	

NOTA: Disponibile versione con ruota libera.
NOTE: Available version with free wheel.

L-320A



4.05



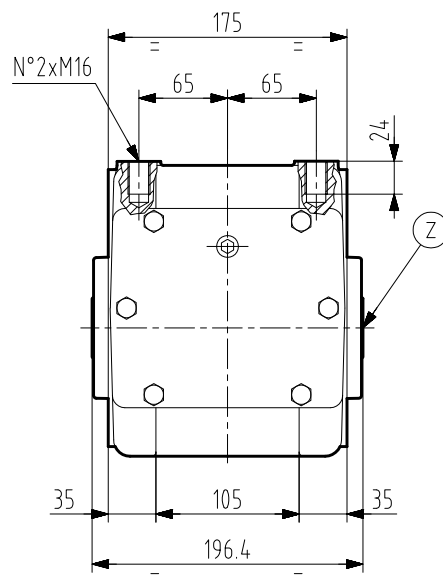
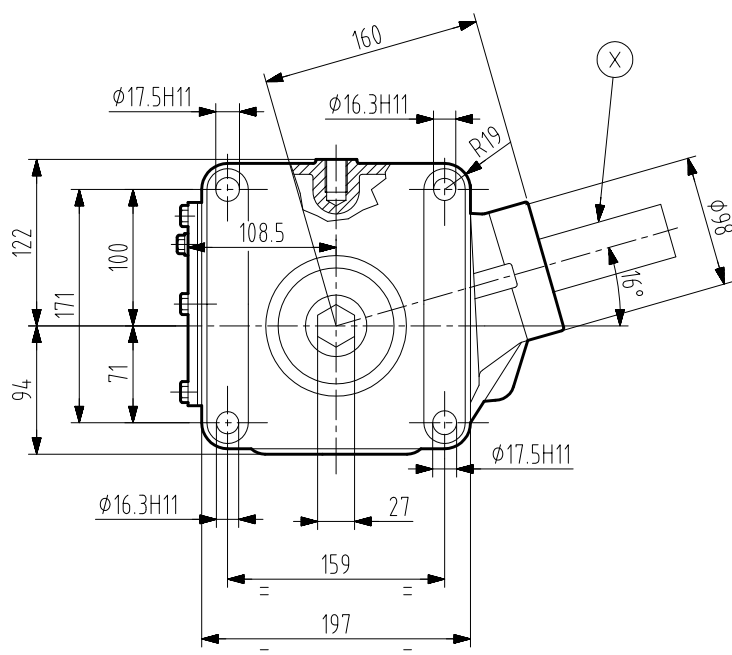
[kg]

28



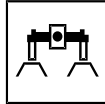
[l]

2.0



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

L-323J



4.05



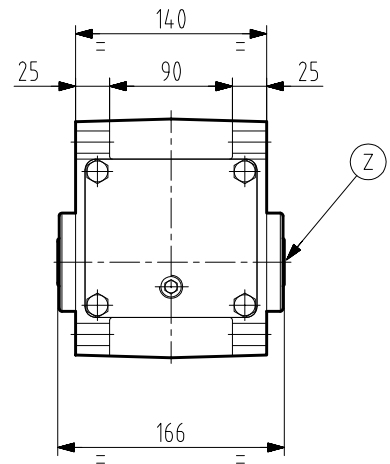
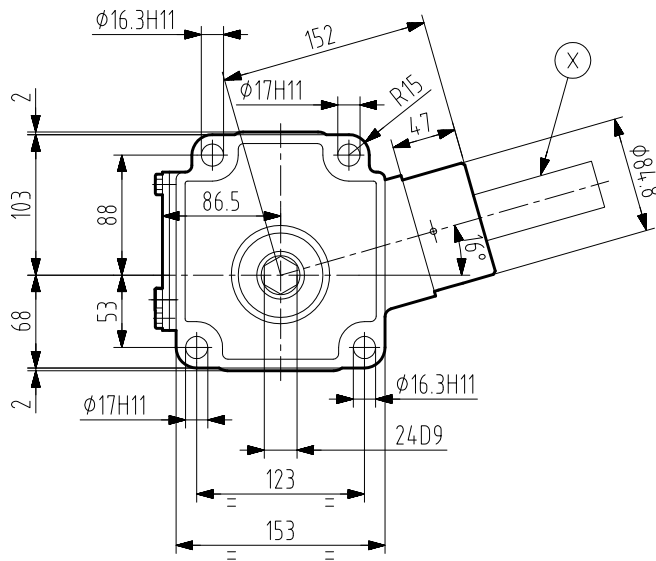
[kg]

14.5



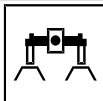
[l]

0.75



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

L-324J



4.05



[kg]

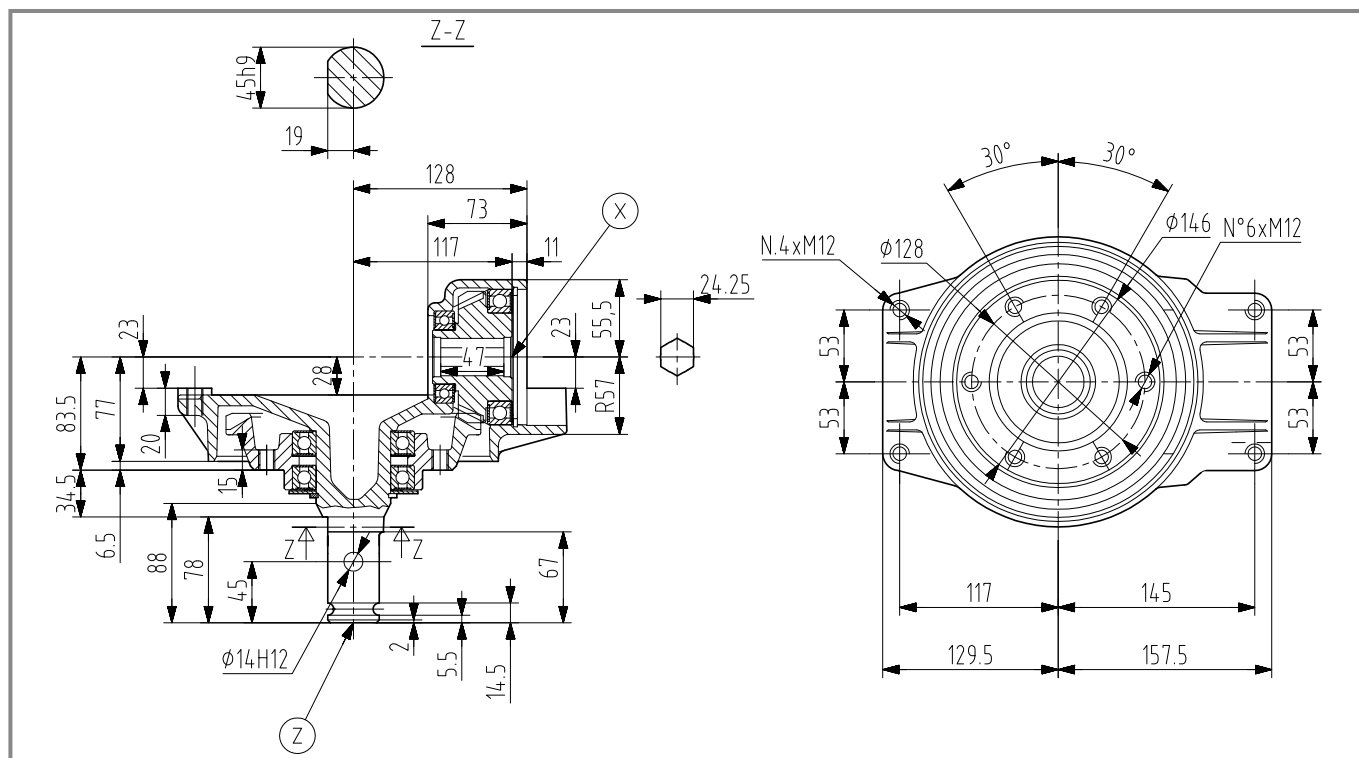
14.2



GREASE

[l]

-



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

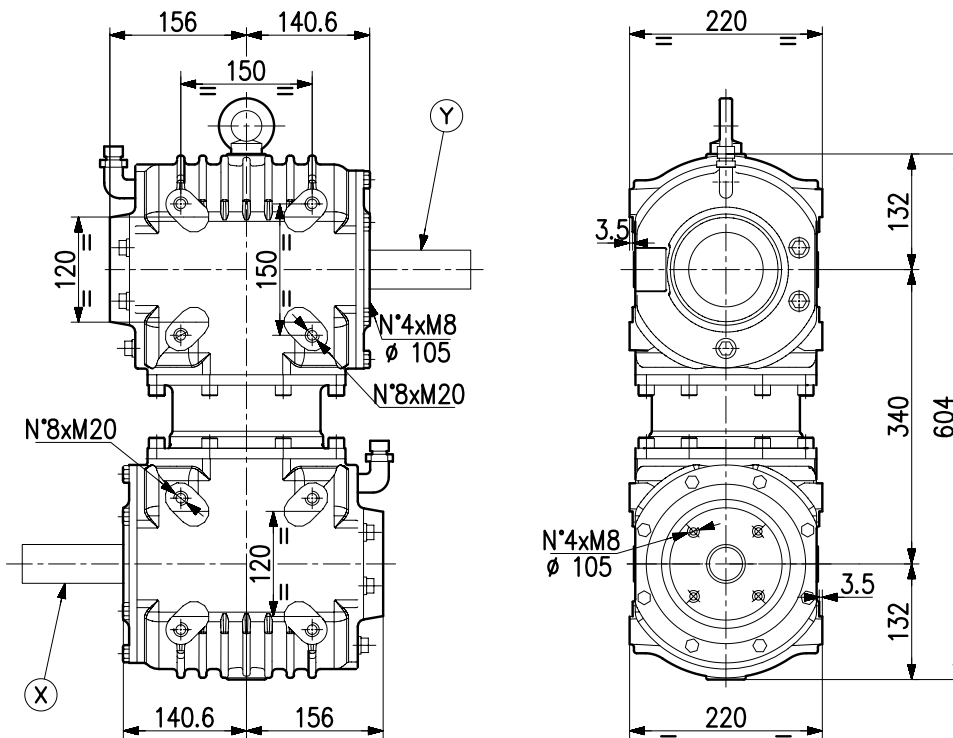
T-329D



0.00



	kg	[kg]	99		OIL	[l]	-
--	----	------	----	--	-----	-----	---



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

T-331A



0.00



5.03
TV-331-A
i= 2.54



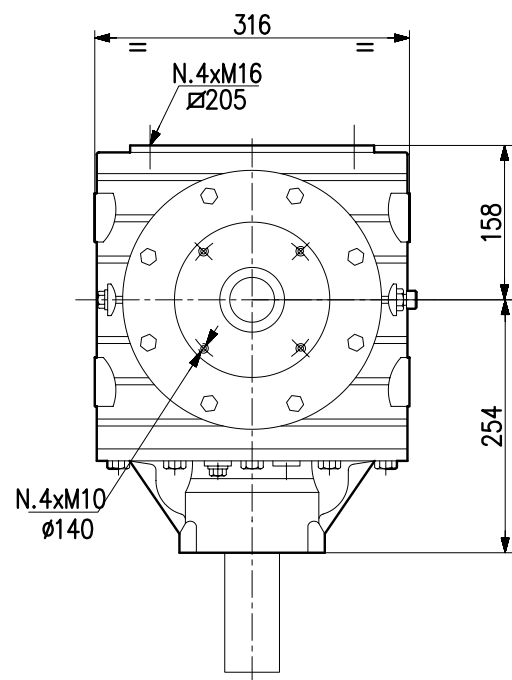
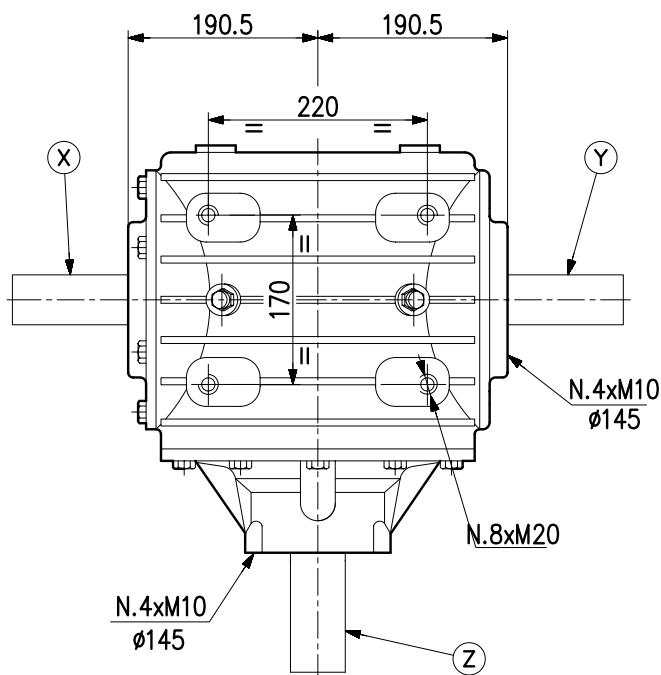
2.02
TLZ-331-A



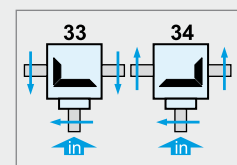
[kg]



[l]



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



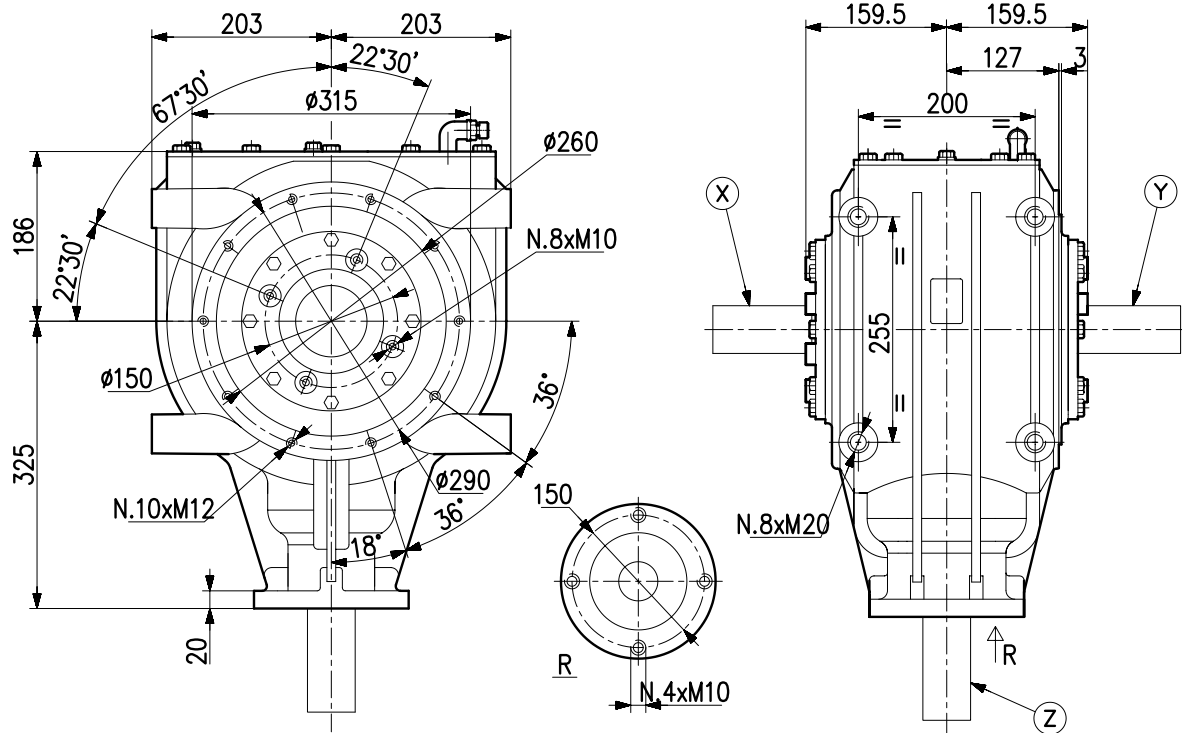
T-332A



0.00

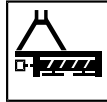


	kg	[kg]	118		OIL	[l]	-
--	----	------	-----	--	-----	-----	---



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

T-334D



4.01



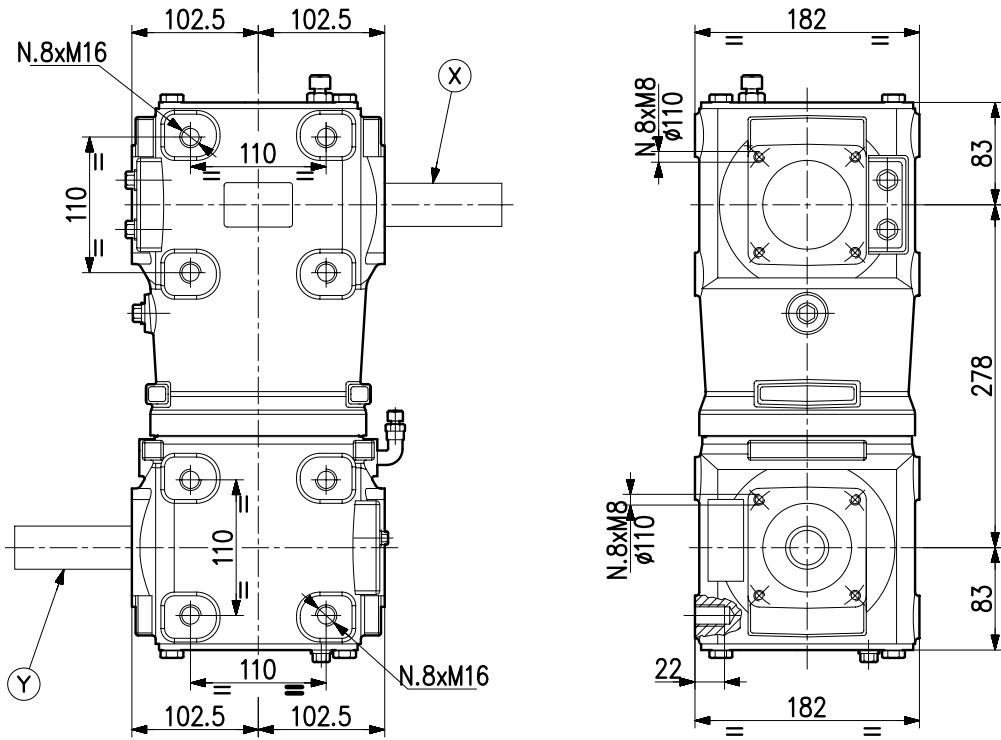
[kg]

54.3



[l]

-

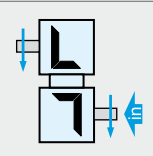


	i				std spec	
		rpm	kW HP	Nm lb.in.		Input
— 	1.00	1000	46.0 62.5		std	X-Y

227



227



FR-507

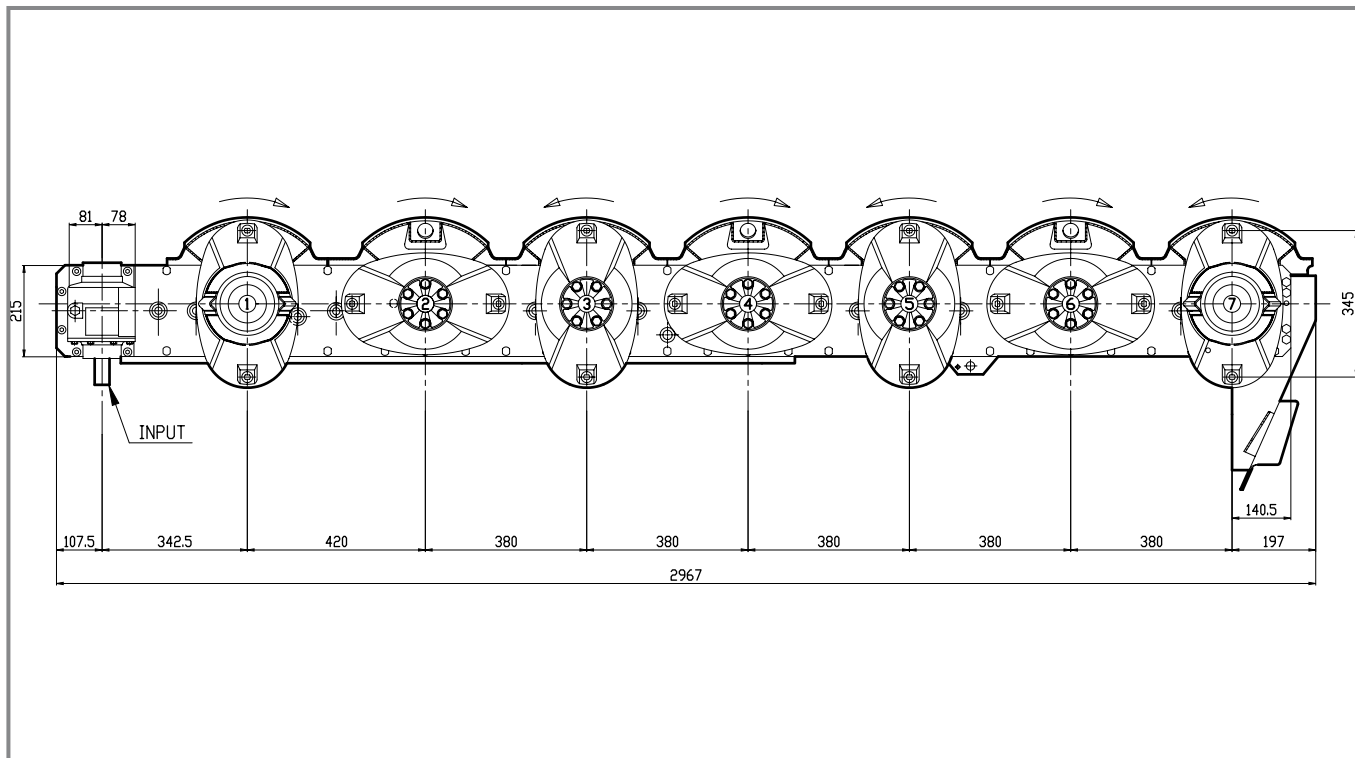
Code **507**



4.01



	[kg]		[l]	-
--	------	--	-----	---



	Fam.	i			"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec
			rpm	kW HP						
M →	FR-503	2.73	1080	15.4	21.0	3	1.3	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

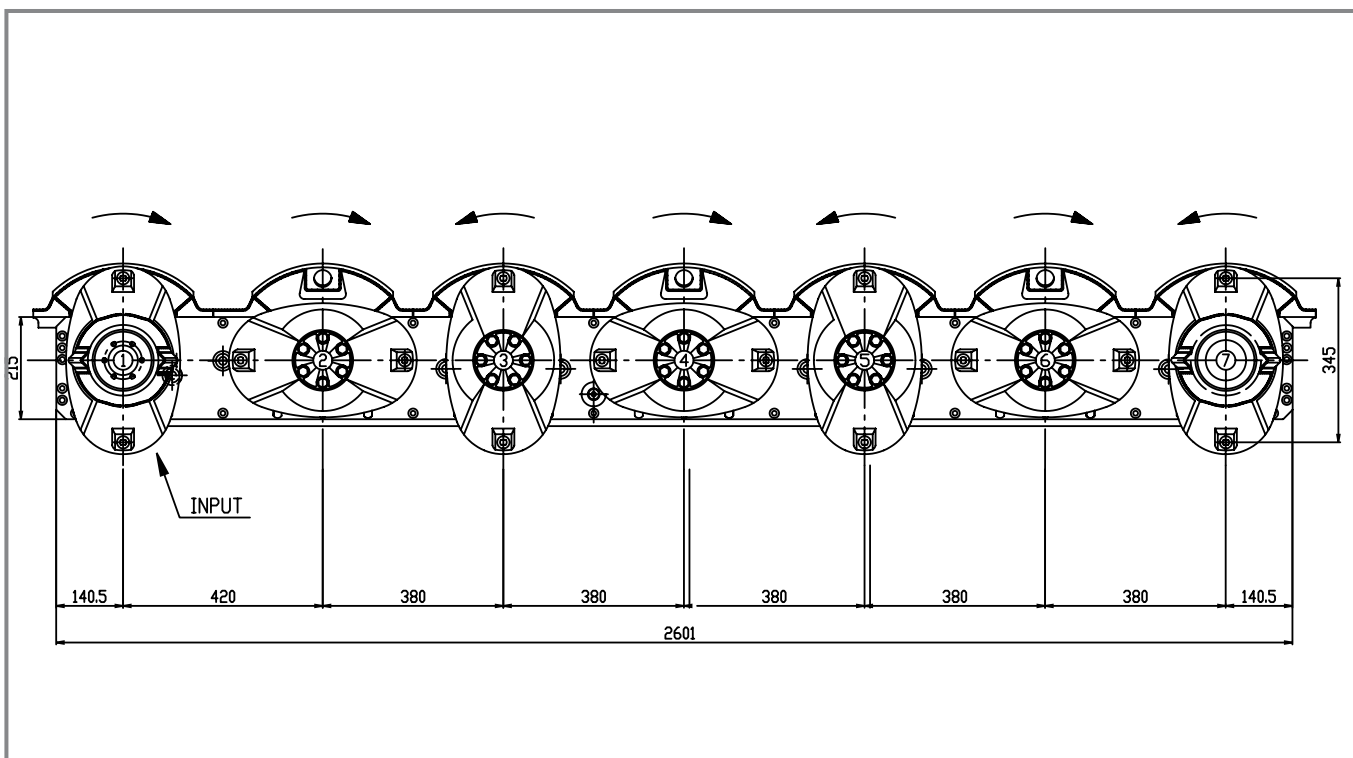
Code **522**



4.01



	kg	[kg]	-		OIL	[l]	-
--	----	------	---	--	-----	-----	---

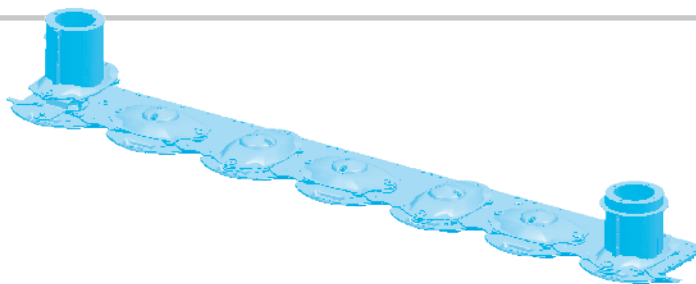


	Fam.	i			"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec	
			rpm	kW							HP
	FR-519	1.00	3000	20.6	28.0	4	1.3	-	1.5	94	std
	FR-520	1.00		25.7	35.0	5	1.7	-	1.5	116	
	FR-521	1.00		30.9	42.0	6	2.1	-	1.8	138	
	FR-522	1.00		36.0	49.0	7	2.4	-	2.3	165	
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

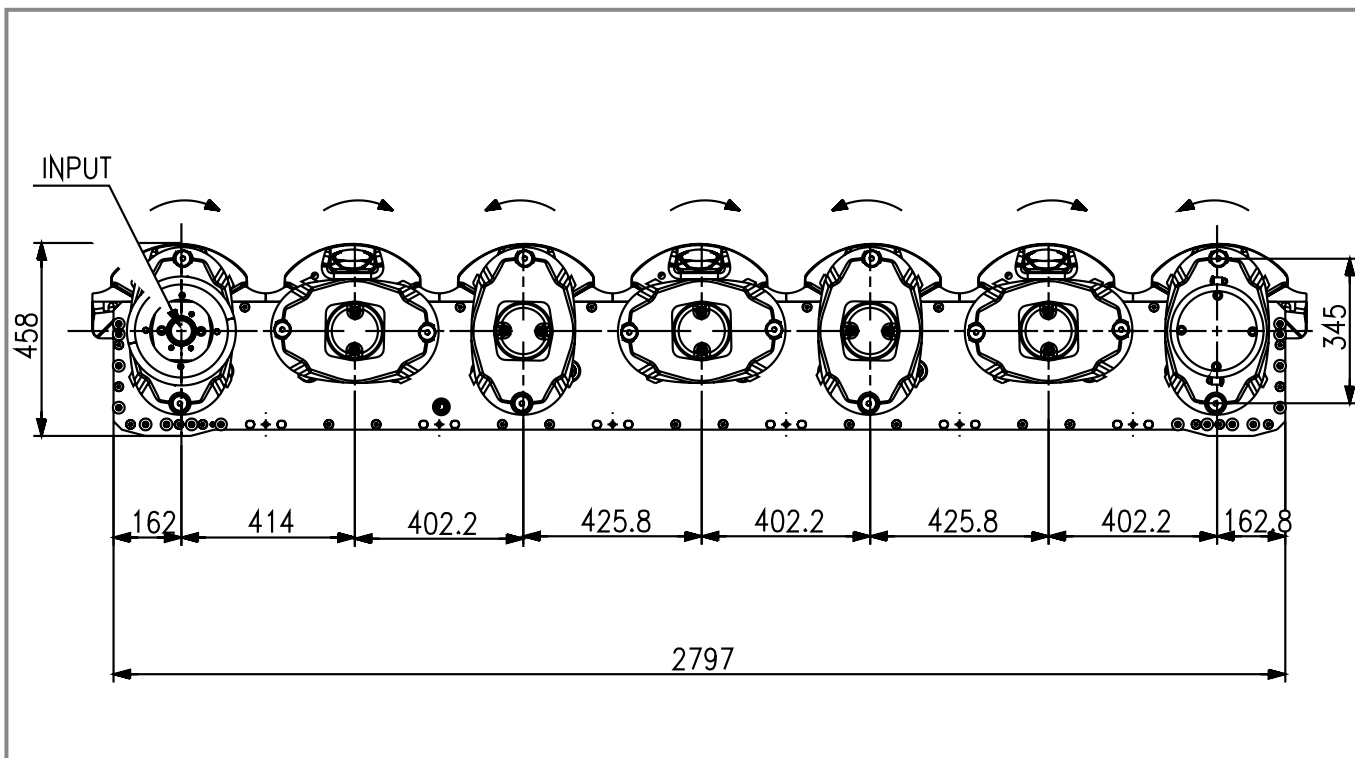
FR-567



4.01



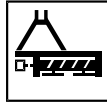
	kg	[kg]	-		OIL	[l]	-
---	----	------	---	---	-----	-----	---



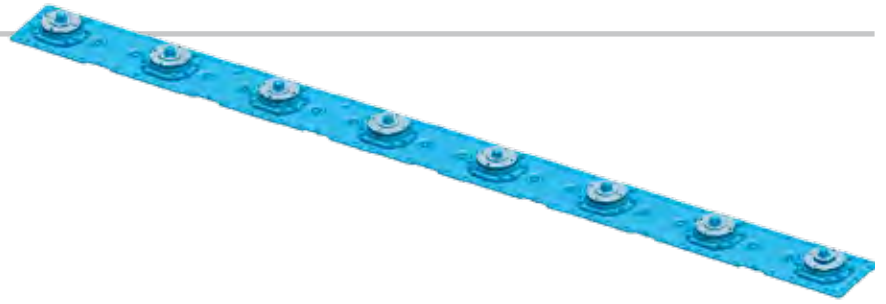
Fam.	i				"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec	
		rpm	kW	HP							
⇒ ⇒	FR-566	1.00	3000	31.0	42	6	2.5	-	1.5	94	std
	FR-567	1.00		36.0	49	7	2.9	-	1.5	116	
	FR-568	1.00		41.2	56	8	3.3	-	1.8	138	
	FR-569	1.00		46.3	63	9	3.7	-	2.3	165	

FR-588

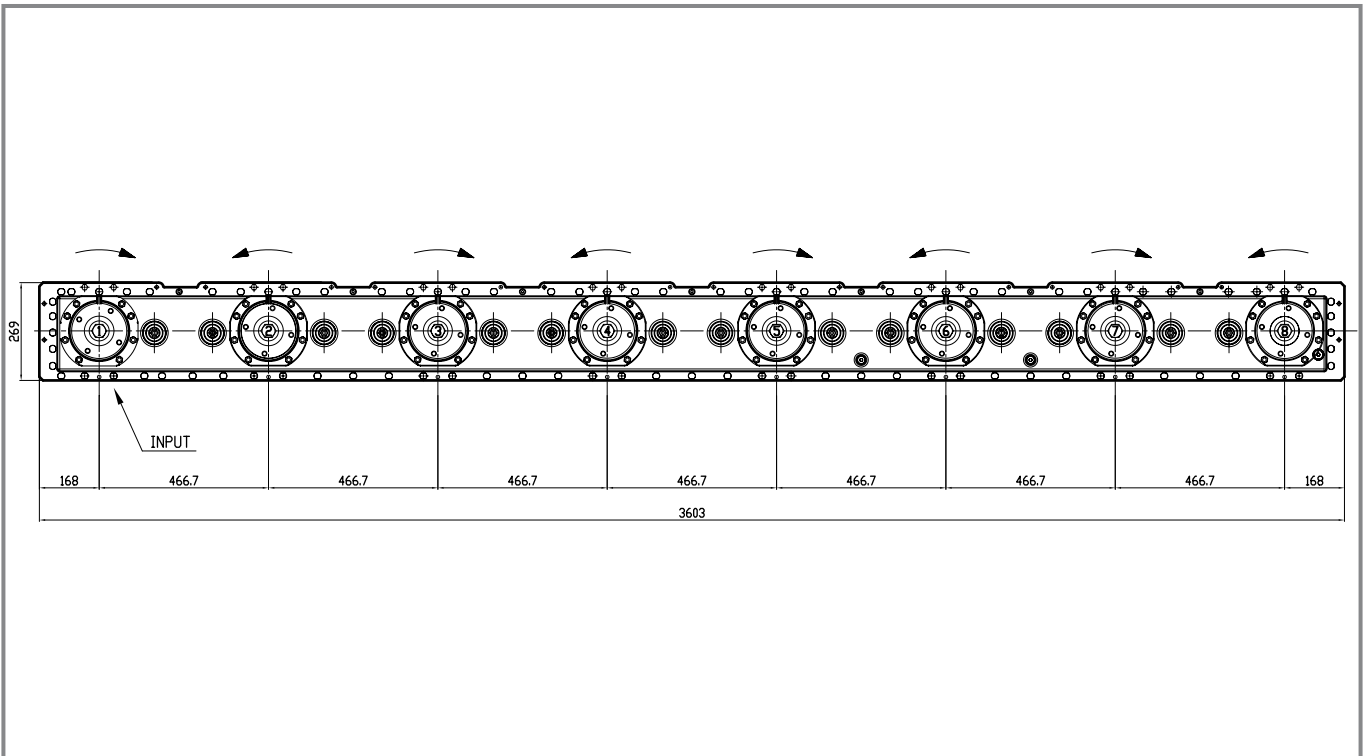
Code **588**



4.01



kg	[kg]	-	OIL	[l]	-
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Fam.	i				"N° Discs"	Cutting width	"Oil Q.ty gearbox (Lt.)"	"Oil Q.ty cutter bar (Lt.)"	"Weight (Kg)"	std spec	
		rpm	kW	HP							
	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**



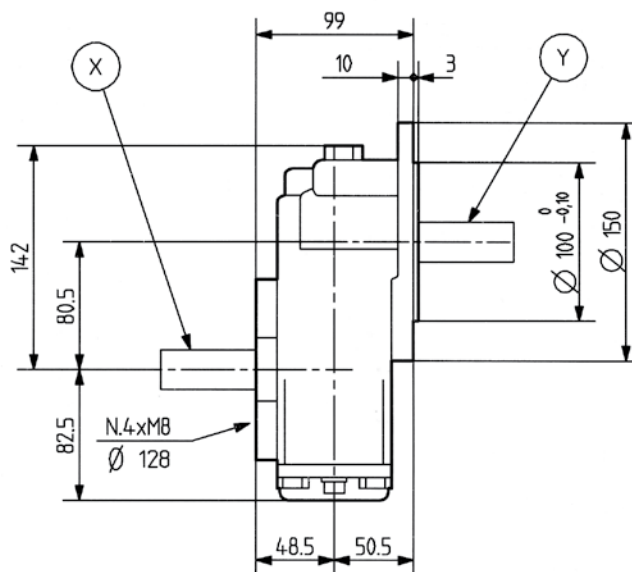
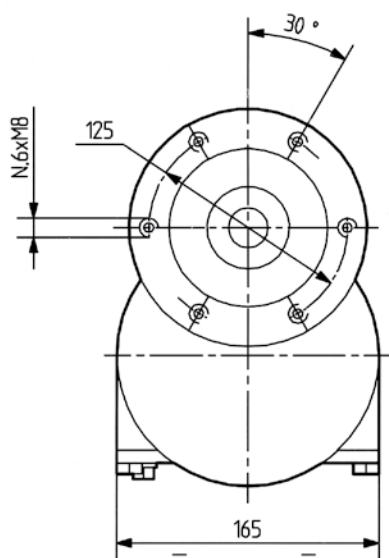
[kg]

11



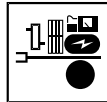
[l]

0.5



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

A-1B



5.01

Code **600**



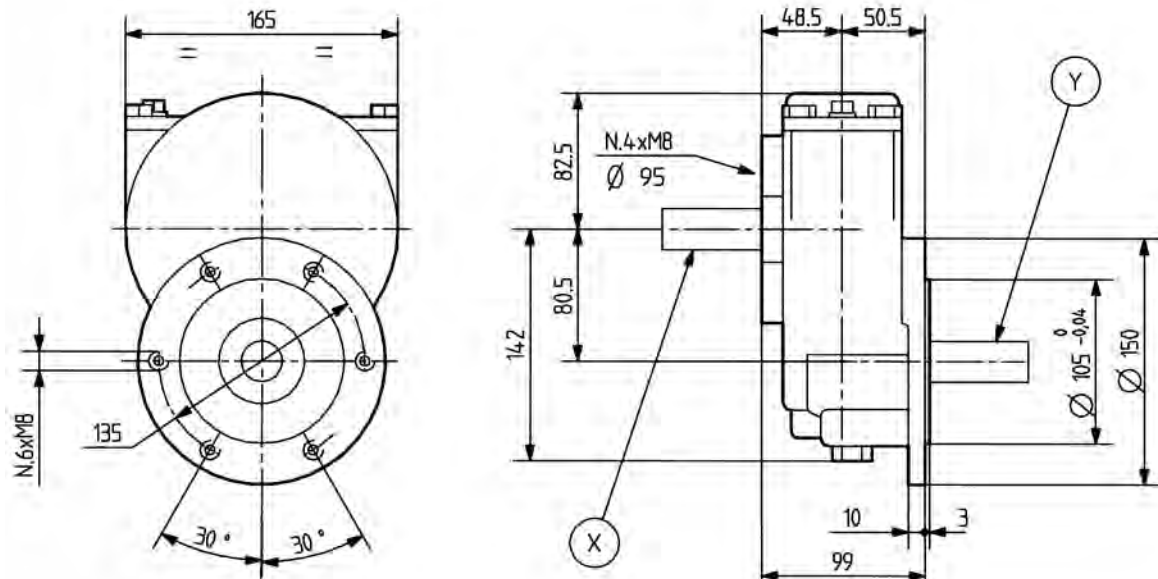
[kg]

11

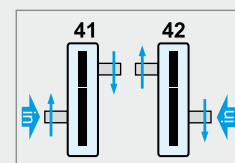


[l]

0.5



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



Code **602**

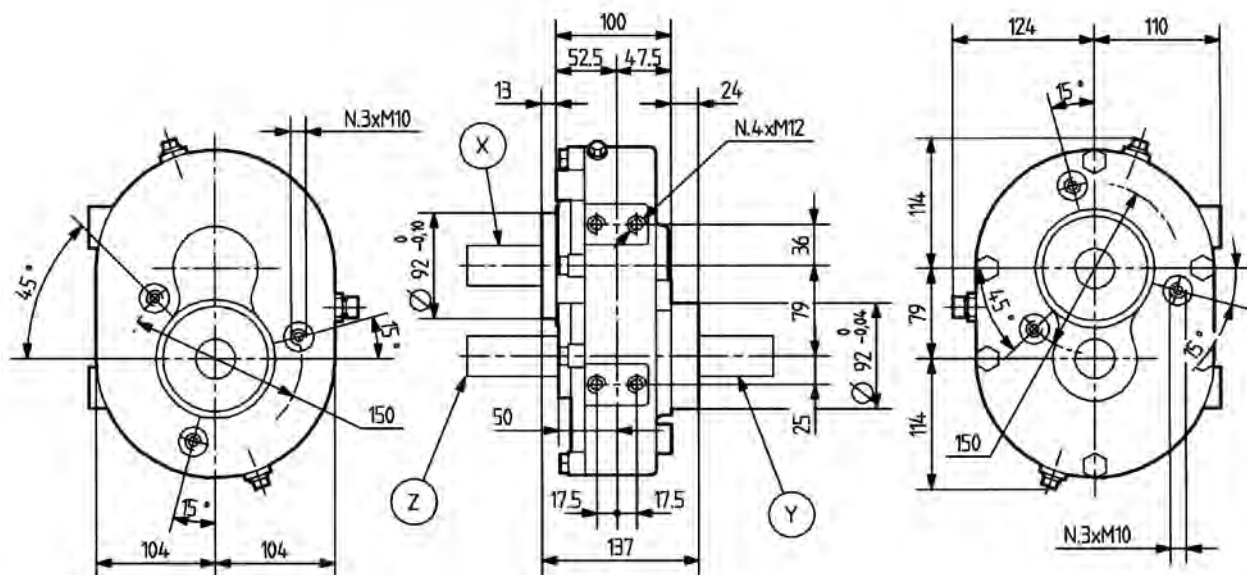
[kg]

18



[1]

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			













































































































































































































A-4A



0.00

Code **603**

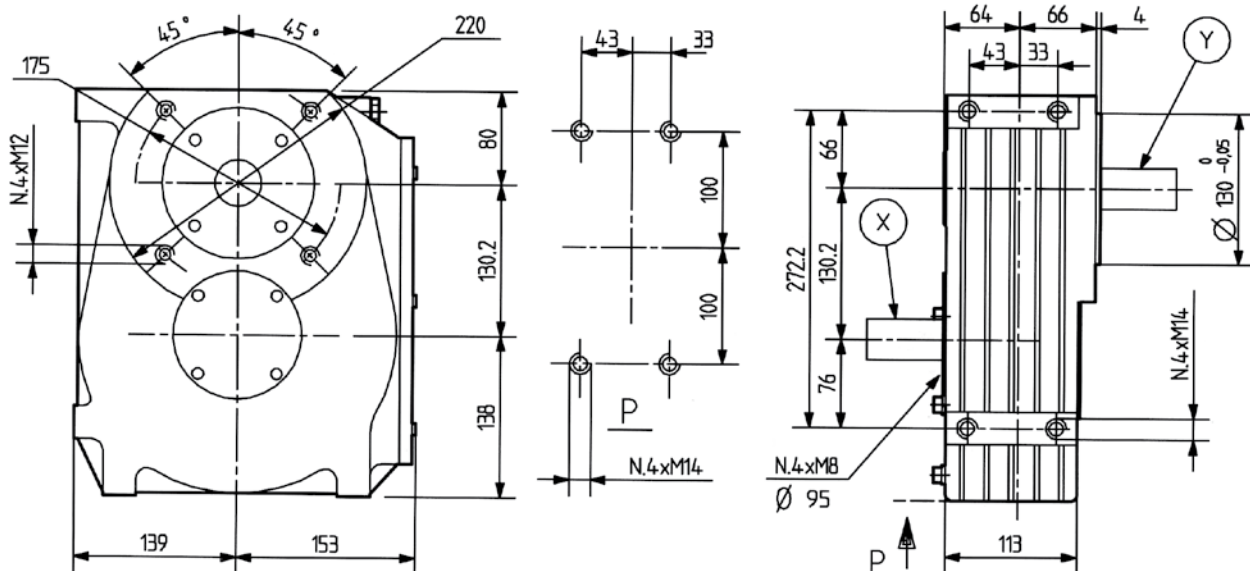
41

41

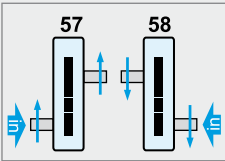
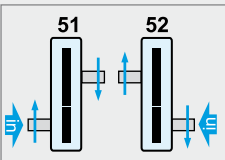
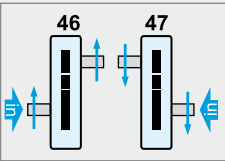
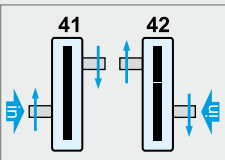


[1]

[1]

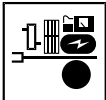


	i	 rpm	 kW	 HP	 Nm	 lb.in.	std spec	 Input		
—		1.00	540	62.6	85.0	1071	9921	std	Y	51-52
M		1.48	540	66.2	90.0	766	7097	std	X	41-42
	2.00	64.0		87.0	548	5077				
	2.43	62.6		85.0	441	4083				
	3.00	59.6		81.0	340	3151				
	3.80	58.1		79.0	262	2426	46-47			
	4.00*	56.7		77.0	242	2247	41-42			
	5.00	55.2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



* Versione A-4B.
A-4B version.

A-4F

Code **603**

5.01



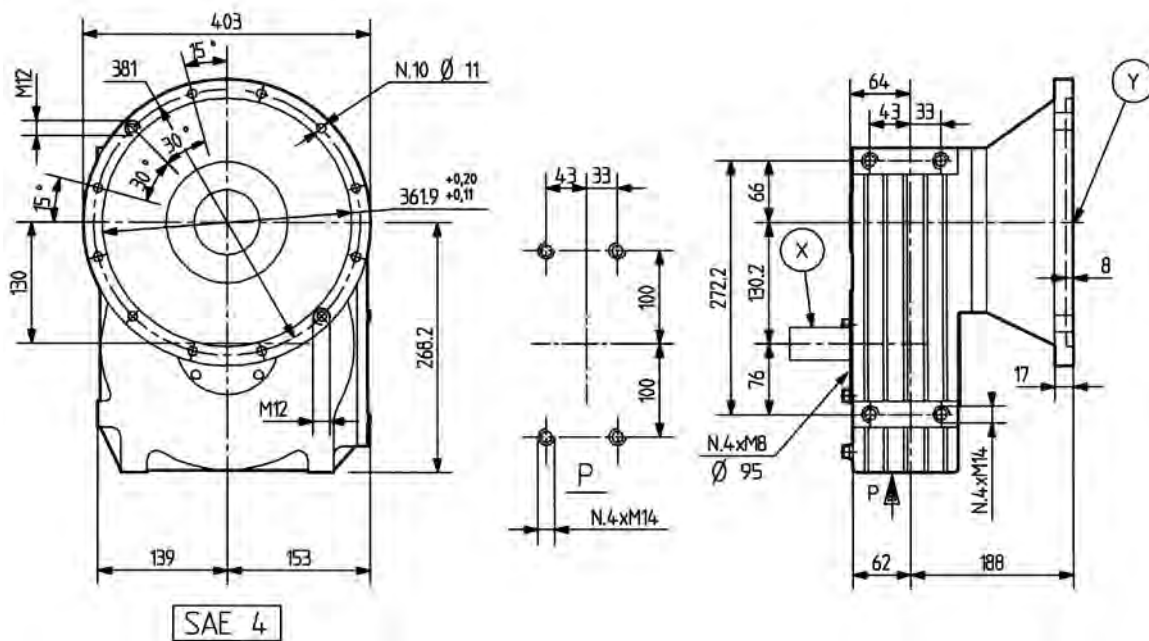
[kg]

47

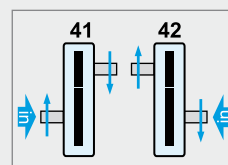


[1]

1.0



	i						std spec		
M 	3.80	395	55.0	75.0	340	3150	std	X	41-42



A-16A

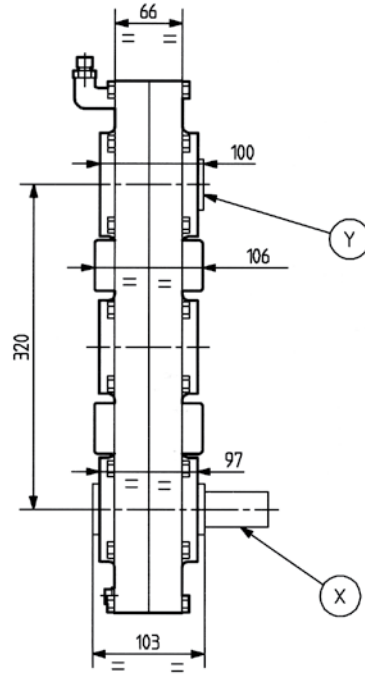
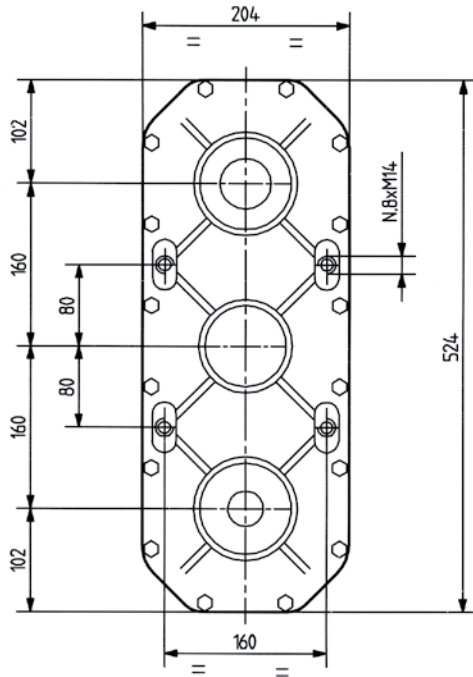


0.00

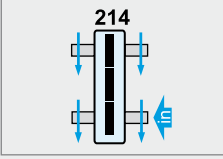
Code **615**



	[kg]	40		[l]	1.5
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	i				std spec		Input	
		rpm	kW	HP	Nm	lb.in.		
—	⇒	1.00	540	62.6	85.0	1071	9921	std
								X
								214

A-20A



0.00

Code **620**



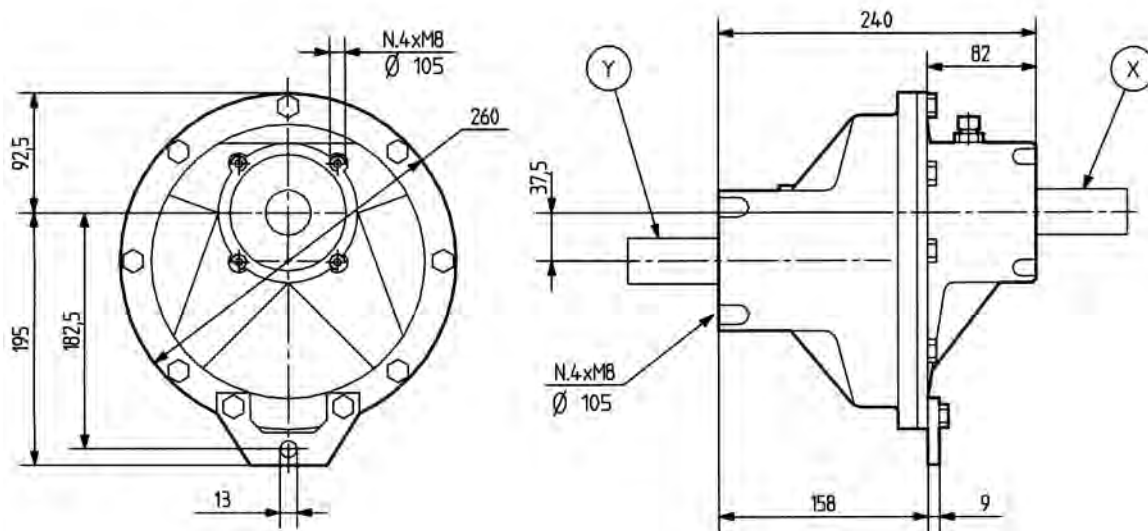
[kg]

26



[l]

1.4



	i				std spec		Input
		rpm	kW HP	Nm lb.in.			
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

215

216

217

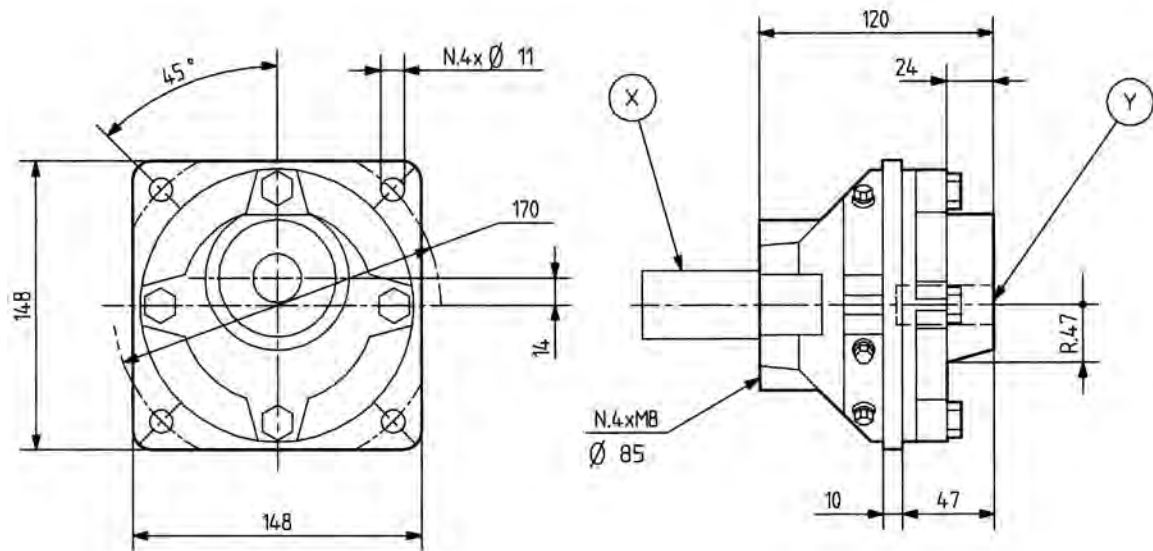
218

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				217-218
R	1.60	540	7.4	10.0	201	1867	std	X				215-216

215	216	217	218

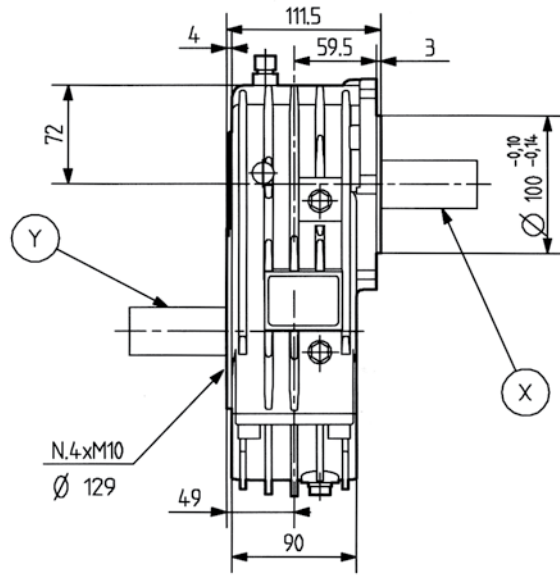
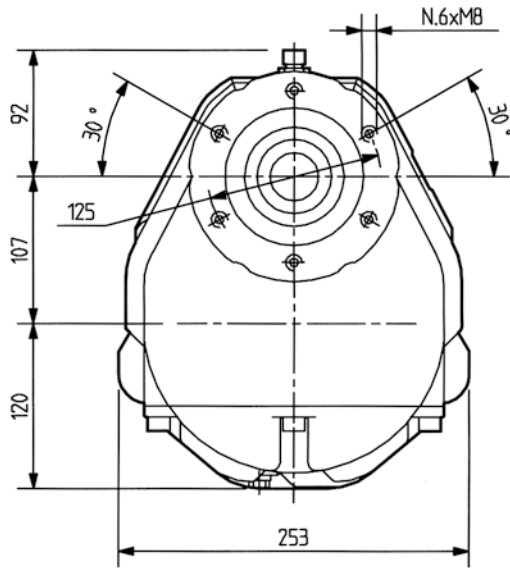
A-624A



0.00



	[kg]	17		[l]	0.45
--	------	----	--	-----	------



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

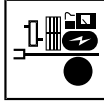
41 **42**

51 **52**

A-624B



0.00



5.01



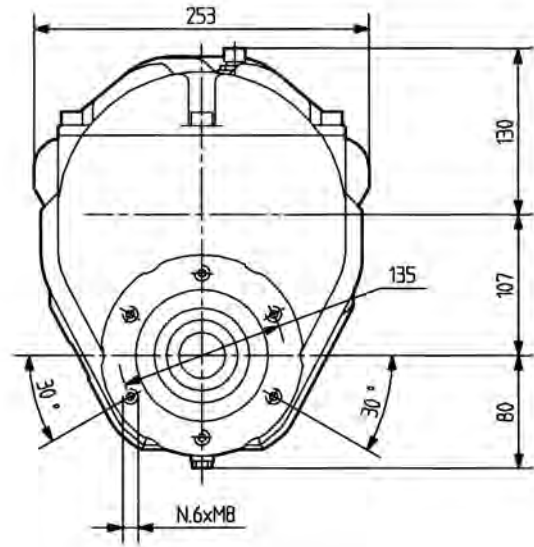
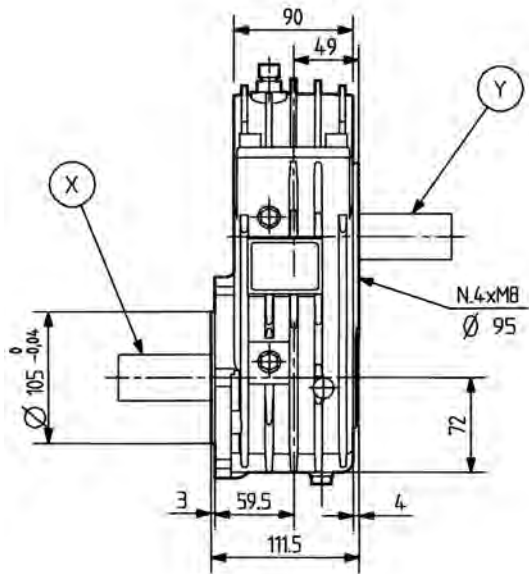
[kg]

17



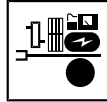
[l]

0.45



M	i				std spec	Input	41-42		
M	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	41-42
	3.50	429	30.0	41.0	185	1750	std	Y	41-42
	6.90	435	22.0	30.0	68	641	std	Y	41-42

A-624C



5.01



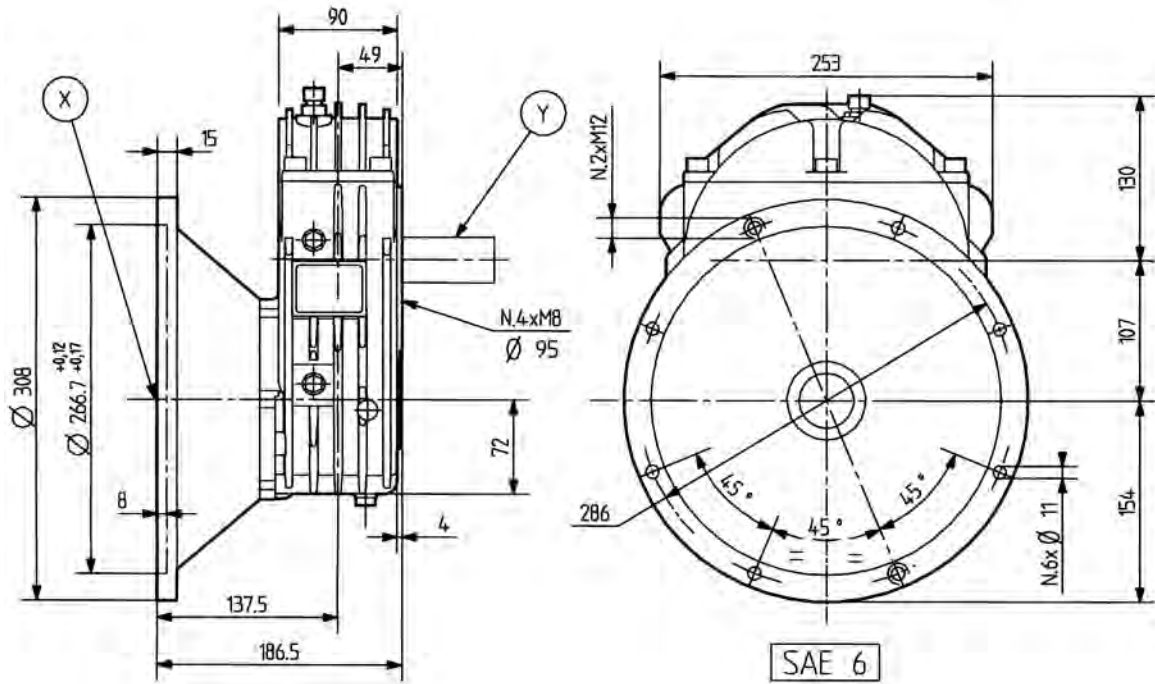
[kg]

22



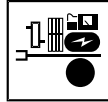
[l]

0.5



M	i	rpm	kW	HP	Nm	lb.in.	std spec	Input	41-42	41-42
	3.50	429	30.0	41.0	185	1750	std	Y		
	6.90	435	22.0	30.0	68	641	std	Y		

A-624E



5.01



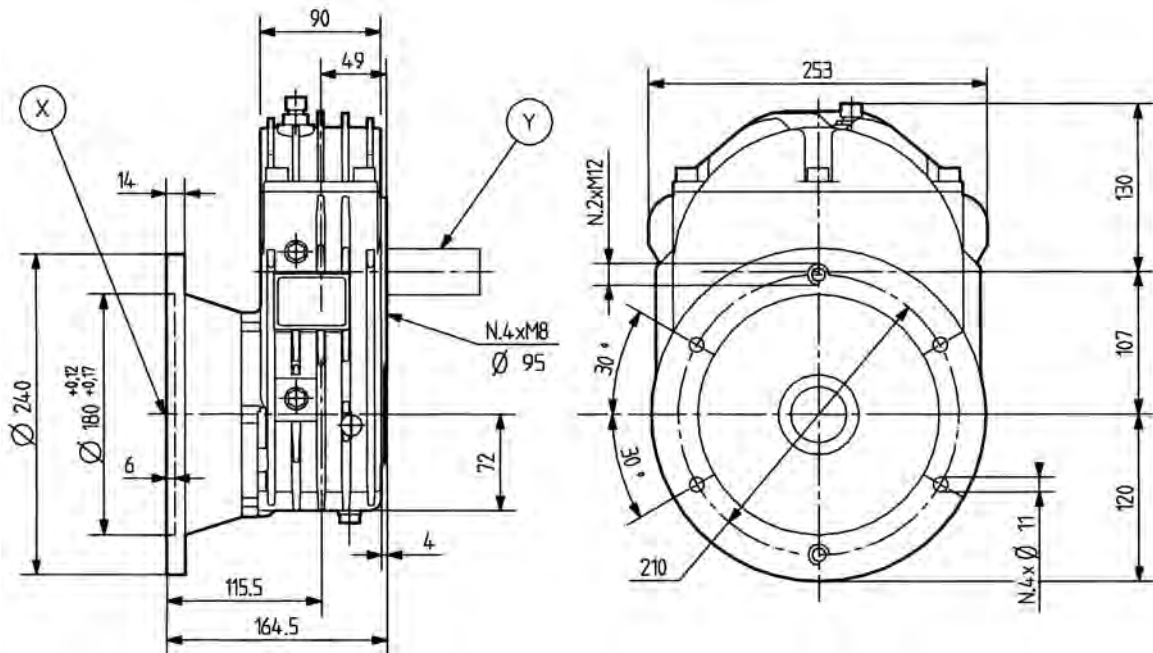
[kg]

20



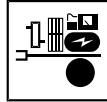
[l]

0.5



	i				std spec		Input	
		rpm	kW HP					
M → +	3.50	429	30.0 41.0	185 1750	std	Y	41-42	
	6.90	435	22.0 30.0	68 641				

A-624F



5.01



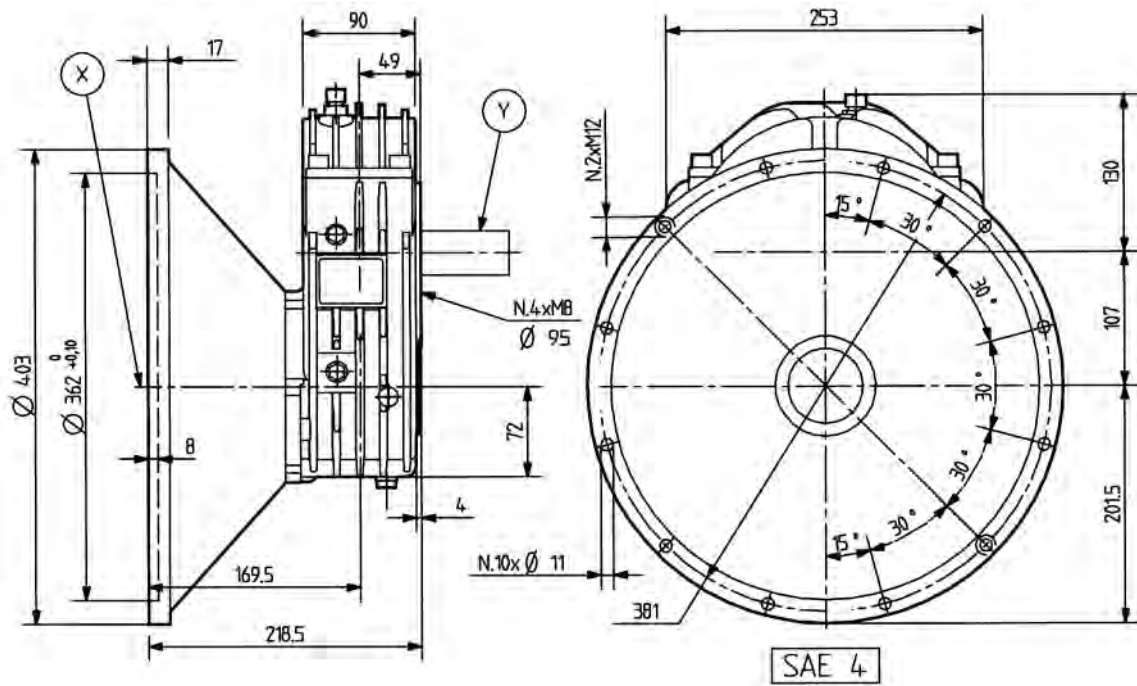
[kg]

26

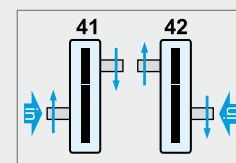


[l]

0.5



	i	 rpm	 kW HP	 Nm lb.in.	std spec	 Input
M $\Rightarrow$ $\Rightarrow$	3.50	429	30.0 41.0	186 1721	std	Y

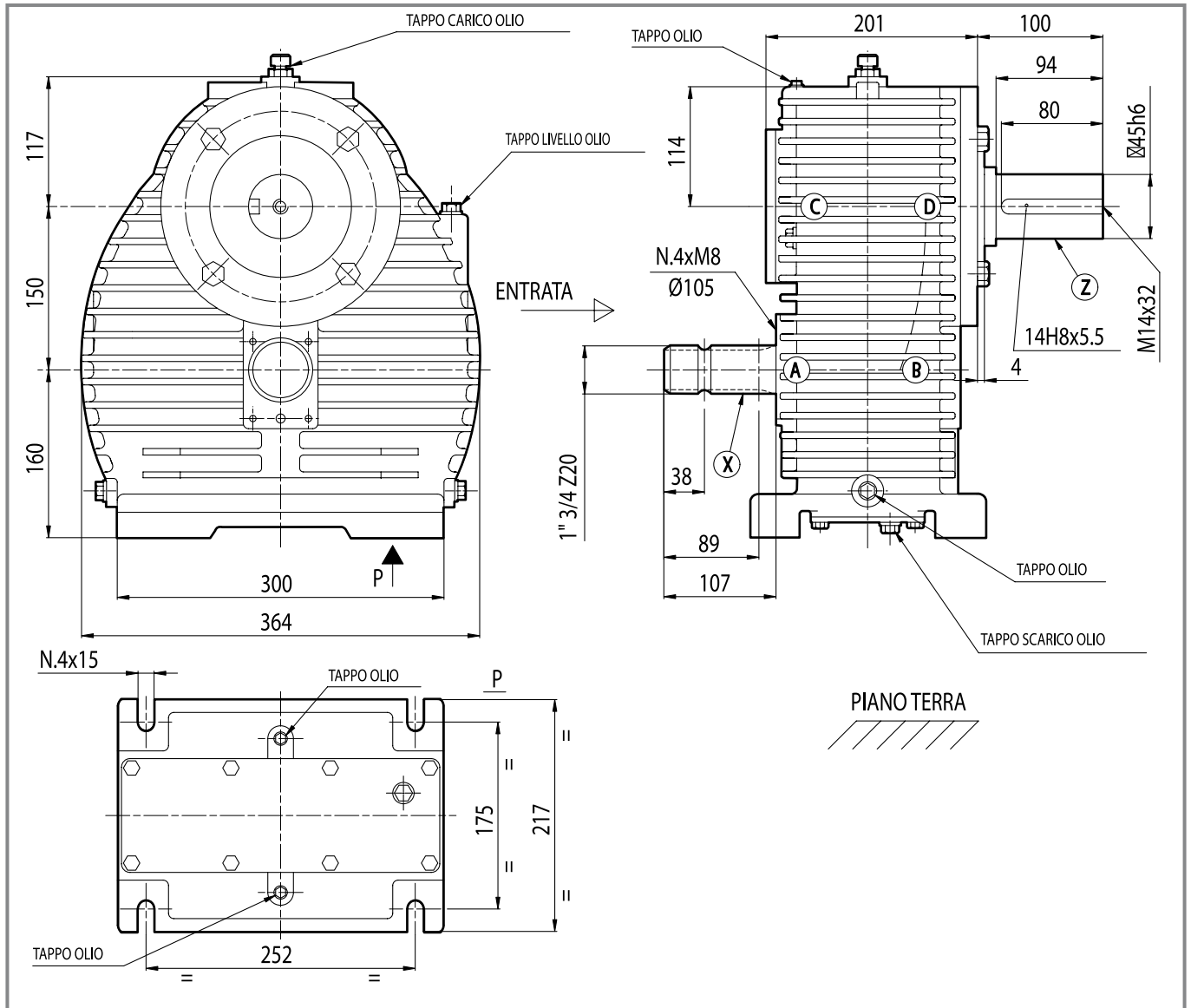


A-629A

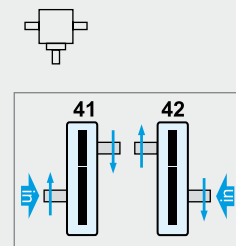


0.00

	[kg]	72		[l]	-
--	------	----	--	-----	---



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



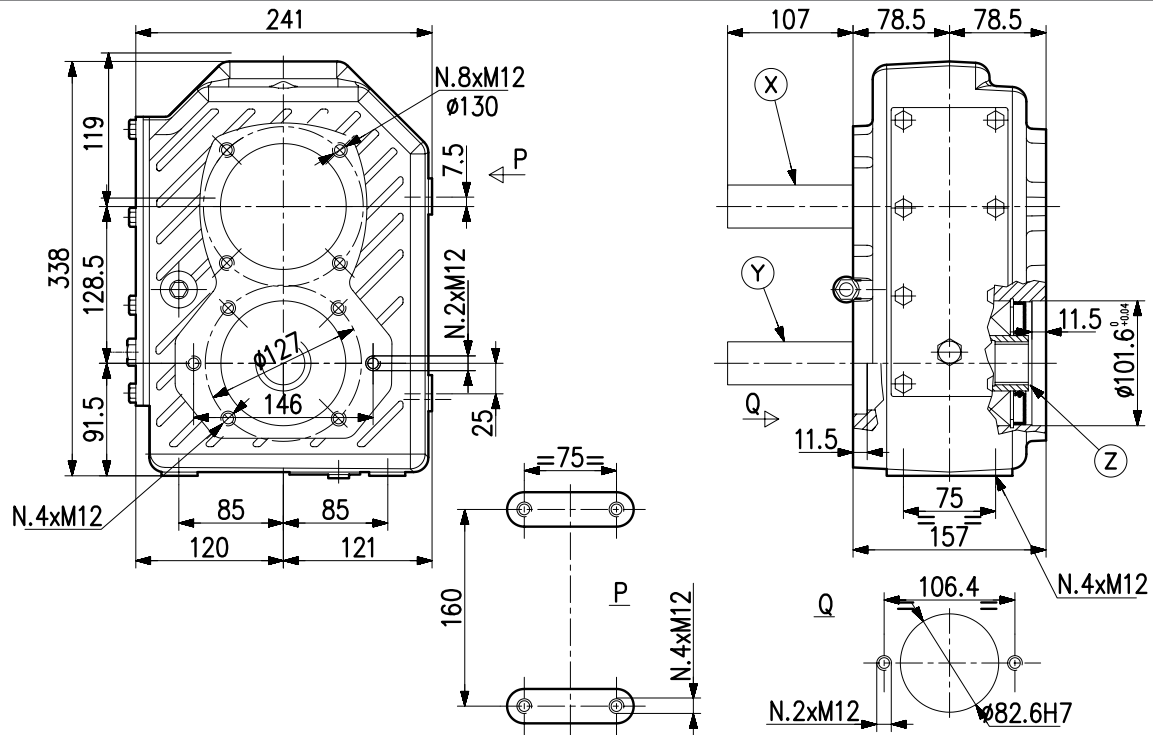
A-640A



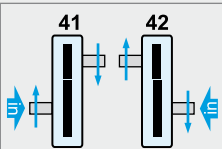
1.05



	[kg]	42.5		[l]	-
--	------	------	--	-----	---



i		 rpm	 kW	 HP	 Nm	 lb.in.	std spec	 Input	
	1.90	1000	91.9	125	-	-	std	X	41-42
	2.15		84.5	115	-	-			
	2.50		80.1	110	-	-			
	3.80		55.9	76.0	-	-			

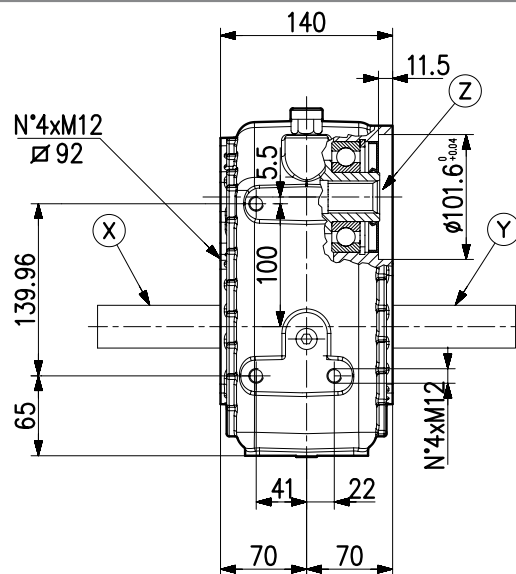
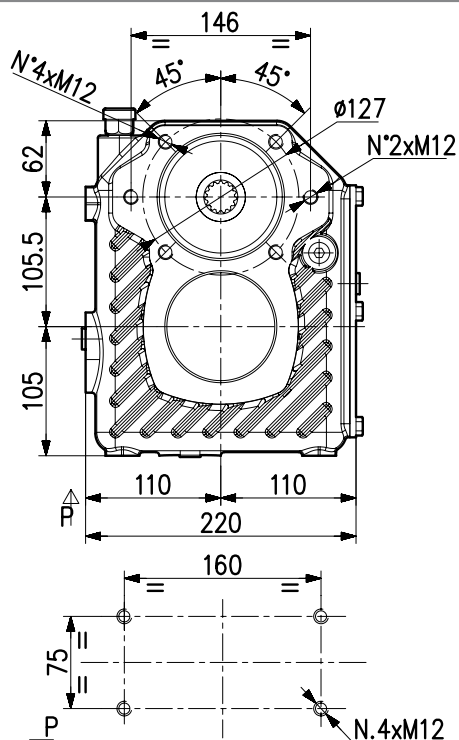
A-649A



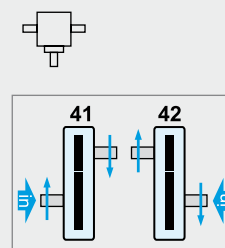
1.05



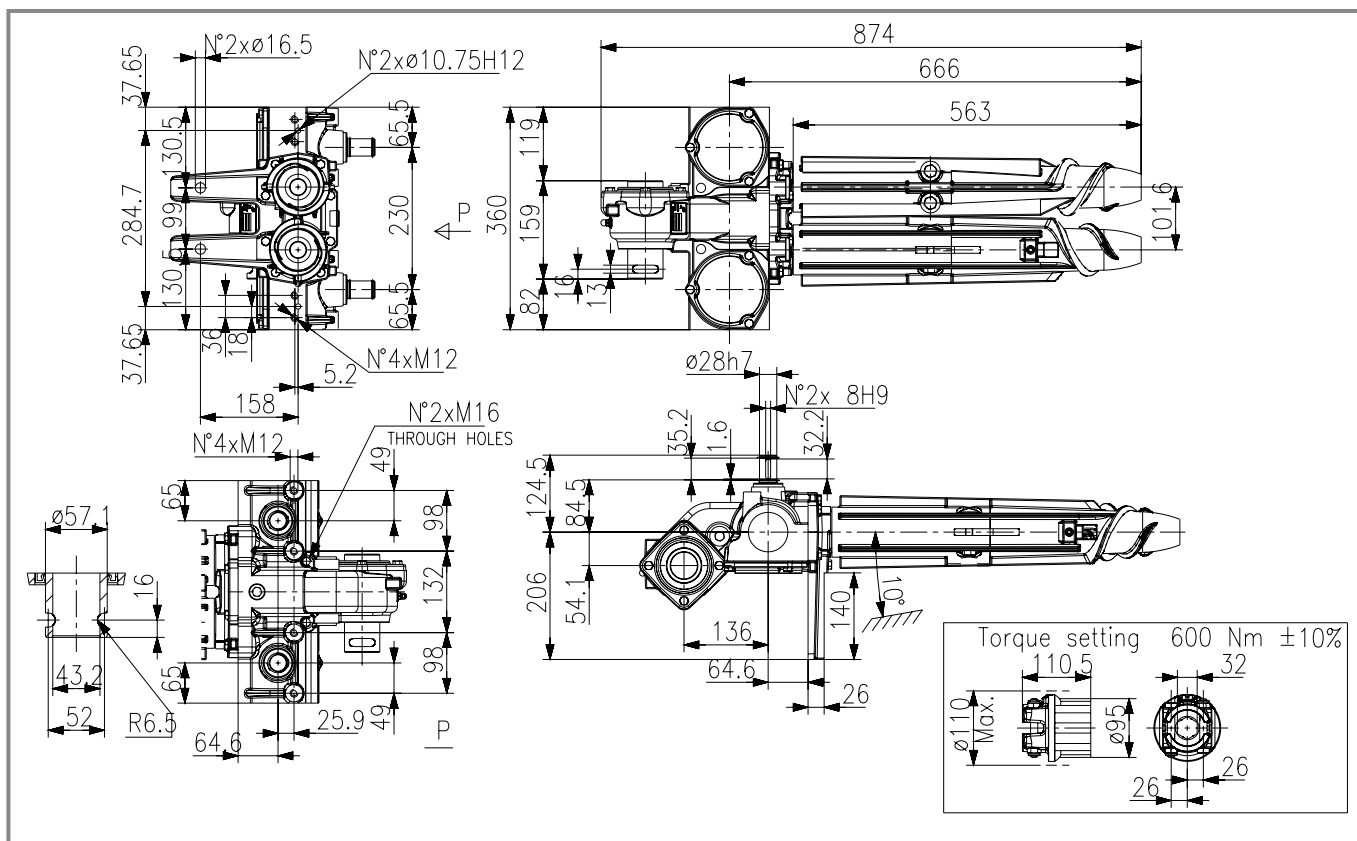
	kg	[kg]	25		OIL	[l]	-
--	----	------	----	--	-----	-----	---



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



—



i						std spec		
	rpm	kW HP	Nm	lb.in.			Input	
1.21/0.51	781	11.7	16.0			std		

N-673J



0.00



4.06



[kg]

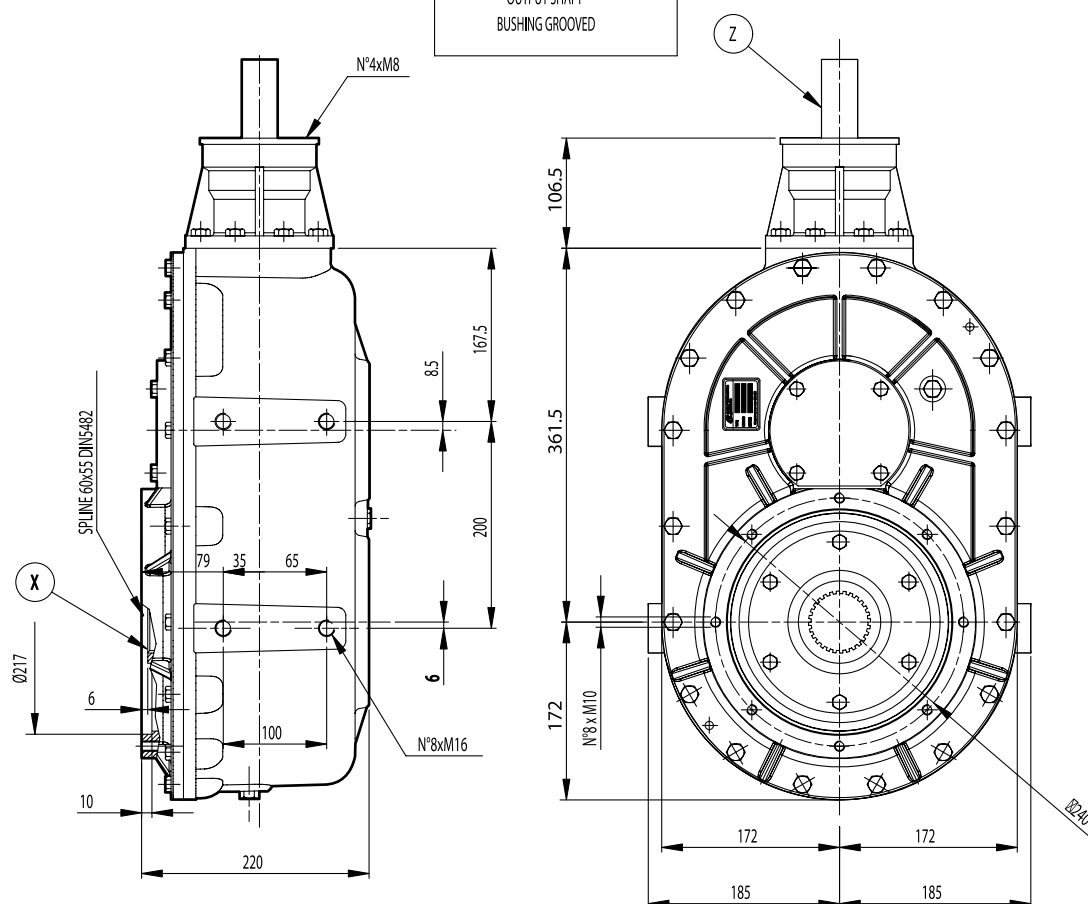
110



[l]

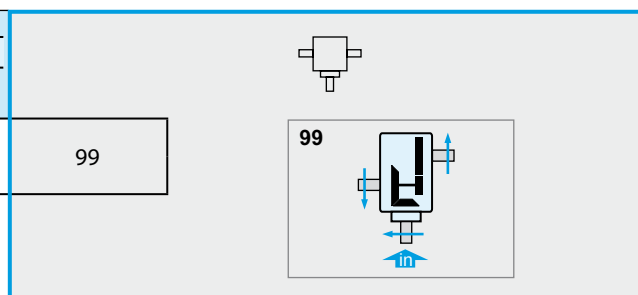
1.8

SOLD AND SUPPLIED AS SEPARATE ITEM
OUTPUT SHAFT
BUSHING GROOVED

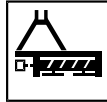


i	rpm	kW	HP	Nm	lb.in.	std spec	Input
10.8	540	55.1	75.0	1022	90508	std	Z
15.0		33.0	45.0	895	79261		

R



NV-676A



4.01

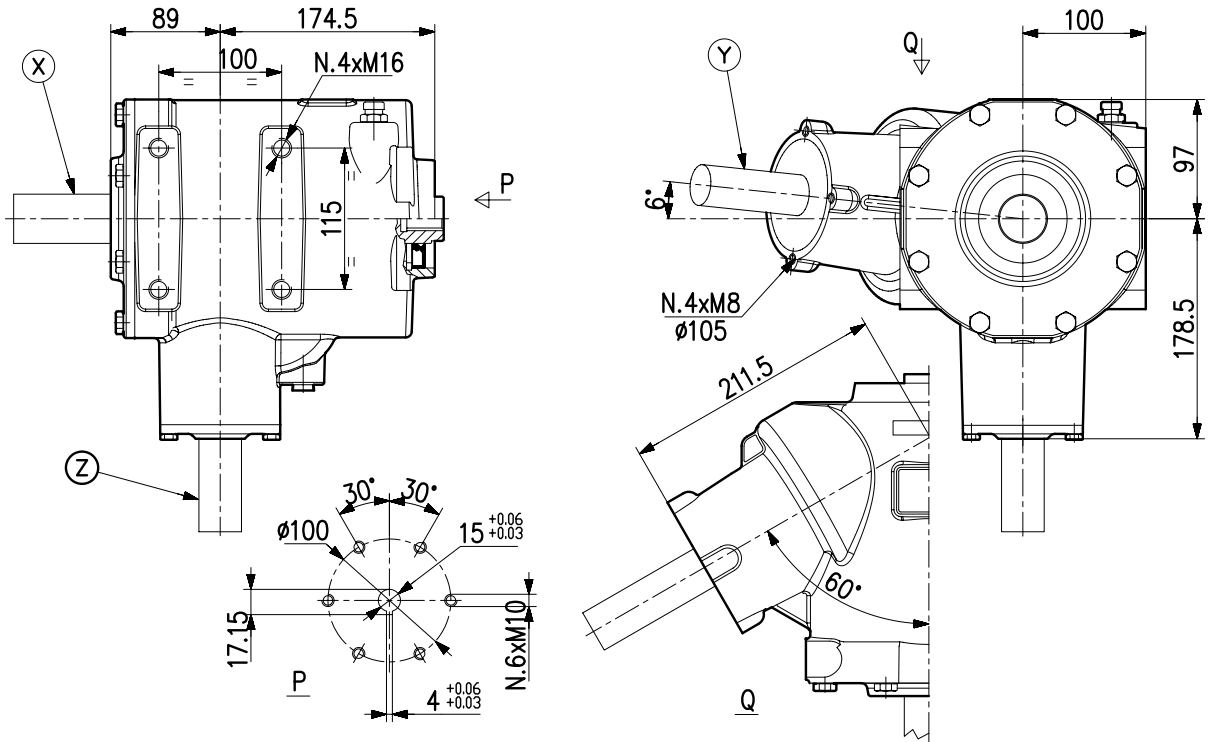


[kg] 38



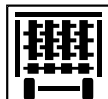
[l]

-



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

T-698A/B



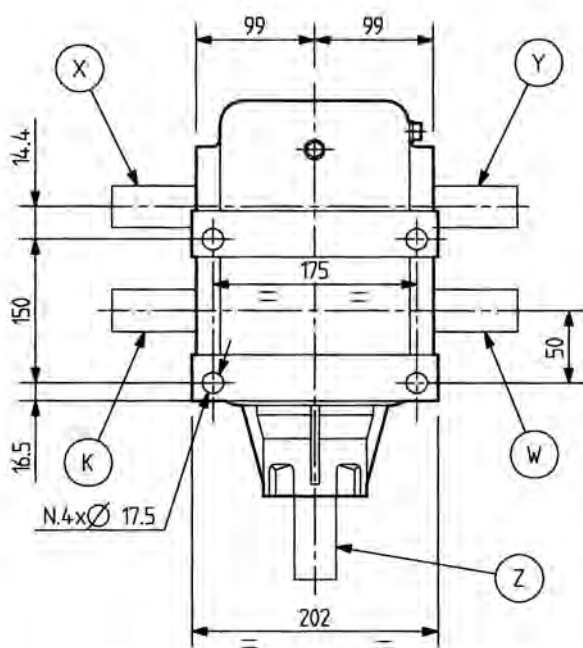
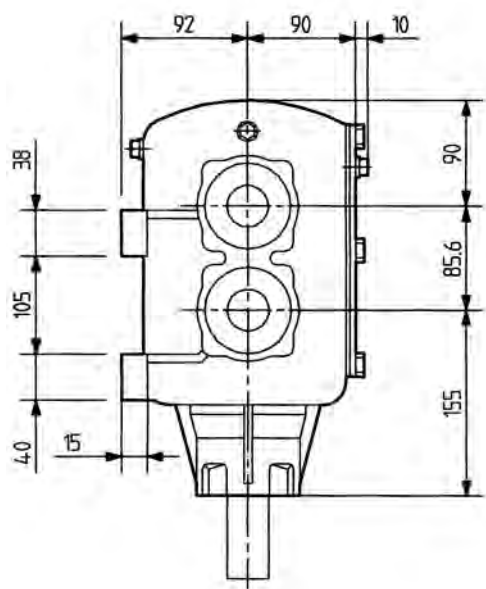
1.04

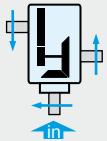
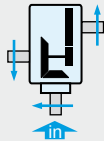


[kg] 28

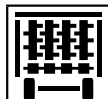


[l] 1.7



R	i						std spec		
		rpm	kW	HP	Nm	lb.in.		Input	
	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)				-	-			
91 99									

N-2A



1.04

Code **699**



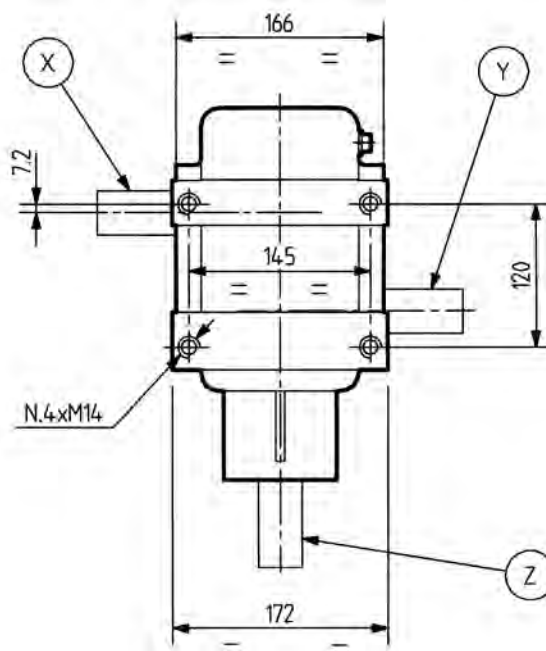
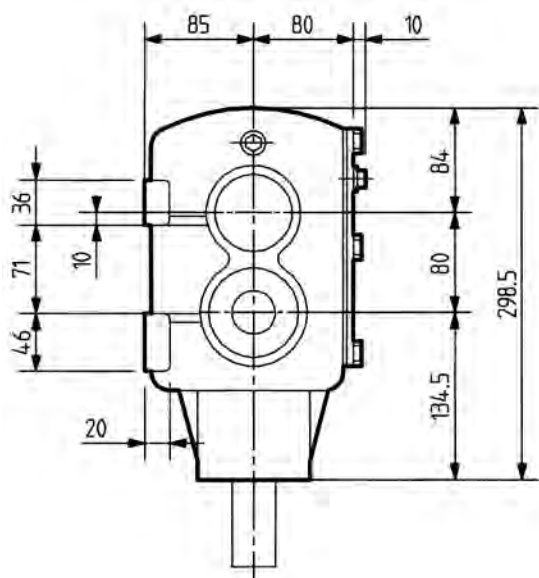
[kg]

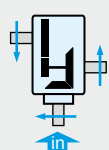
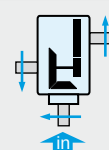
19



[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	91-99	
		5.67 (Z-X)				-	-				
											91 99

2.01

Code **701**

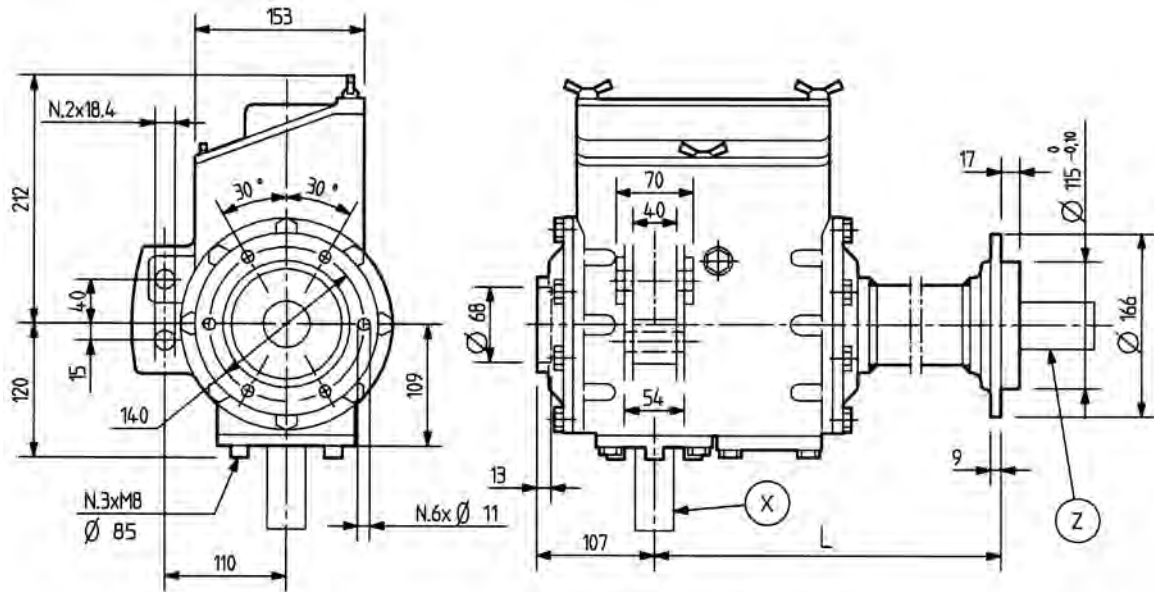
[kg]

—



[1]

—



i							std spec		L (mm)	Code
R	1.55	540	29.4	40	-	-	std	X	500	701.027
	1.72				-	-			600	701.028
	2.14				-	-			700	701.000
	2.5				-	-			800	701.030
	2.8				-	-			900	701.026
	3.15				-	-			-	-

MZ-2A



2.01

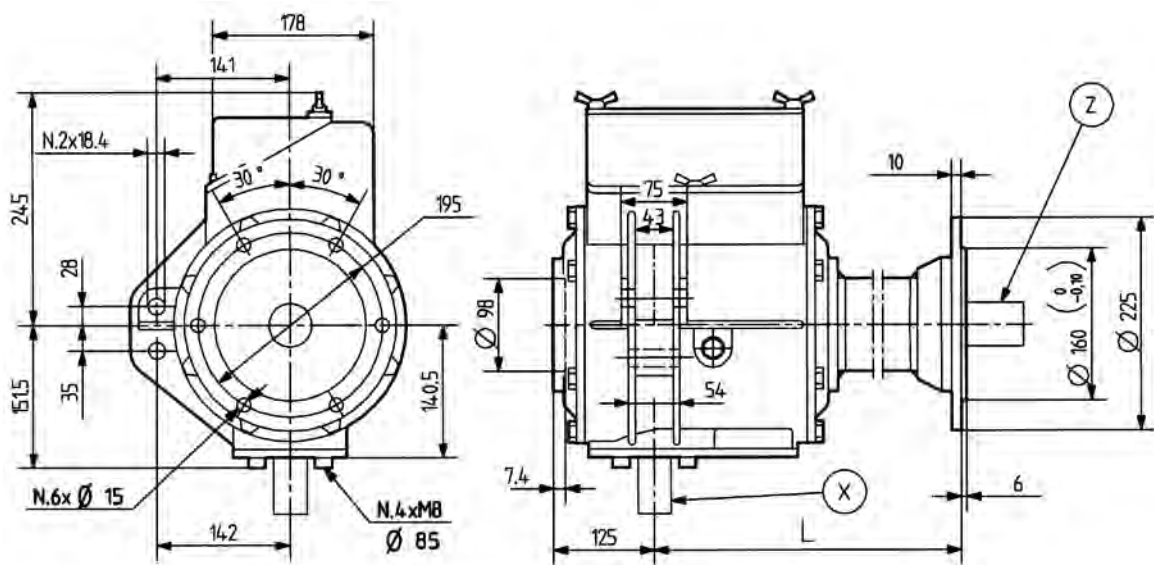
Code **702**



[kg]



[l]



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

MZ-3A



2.01

Code **703**



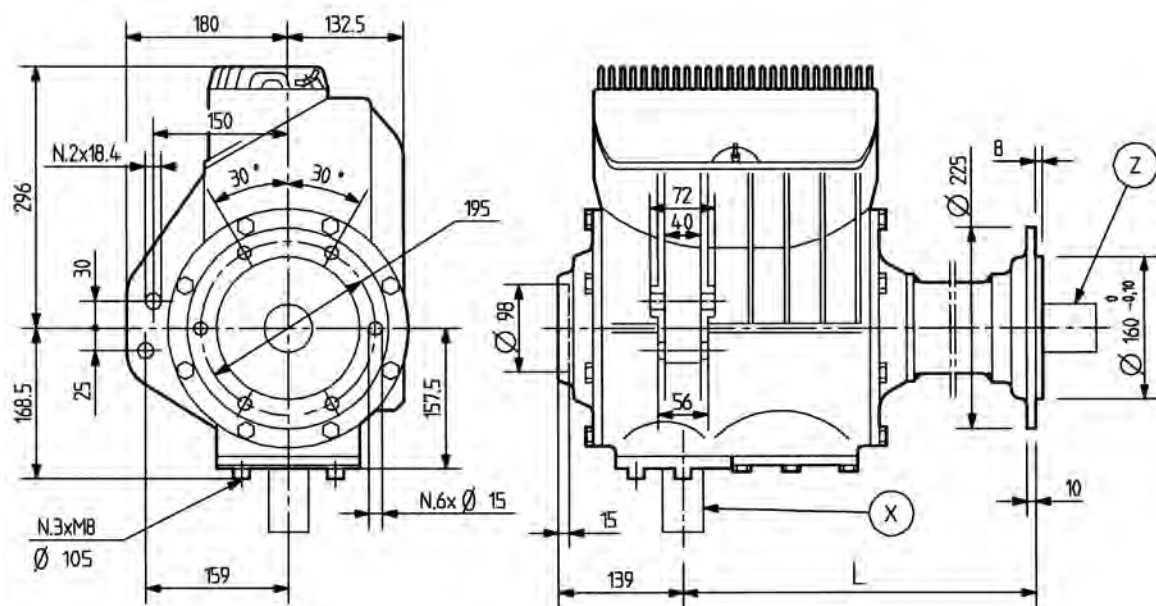
[kg]

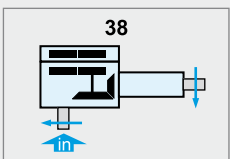
-



[l]

-



i				std		L (mm)	Code	 	
	rpm	kW	HP	spec	Input				
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**

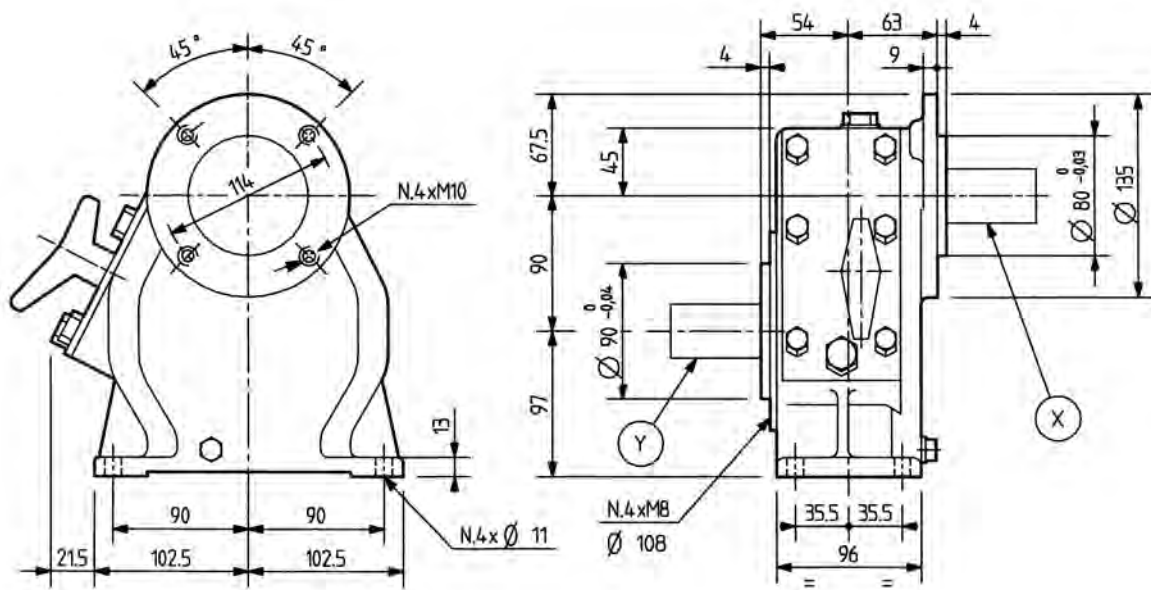
[kg]

17



[1]

0.9



i						std spec		
	rpm	kW	HP	Nm	lb.in.		Input	
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**

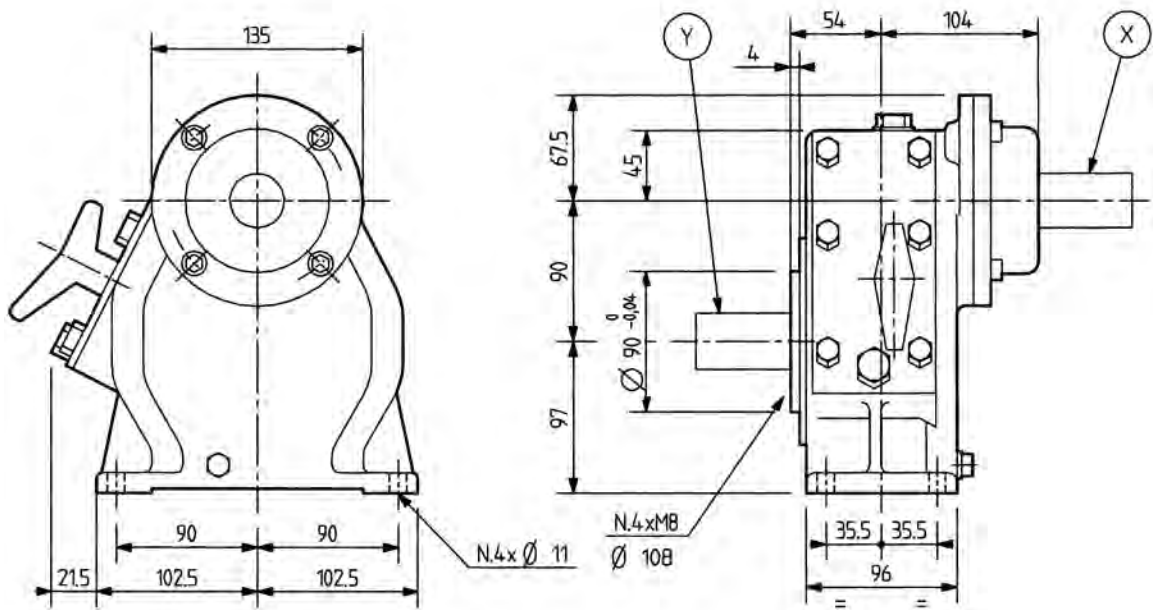
[kg]

18



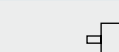
[1]

1.0

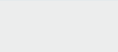


i							std spec		
		rpm	kW	HP	Nm	lb.in.		Input	
	4.00	540	21.7	29.5	93	861	std	Y	209 - 210
	5.25		20.6	28.0	67	622			

209



210



D-16



0.00

Code **716**



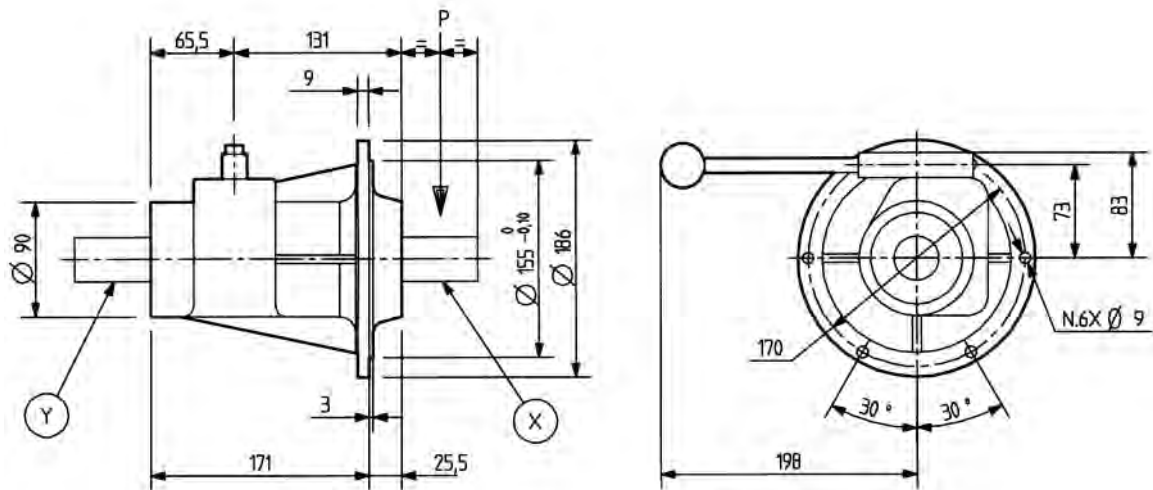
[kg]

9.5

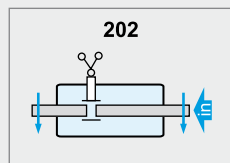


[l]

0.25



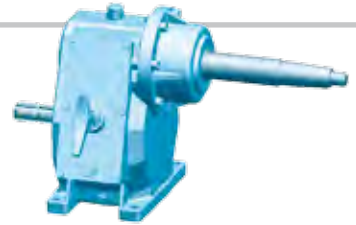
P (kg)			std spec		Input	202
	Nm	lb.in.				
250	200	1736	std	X		202



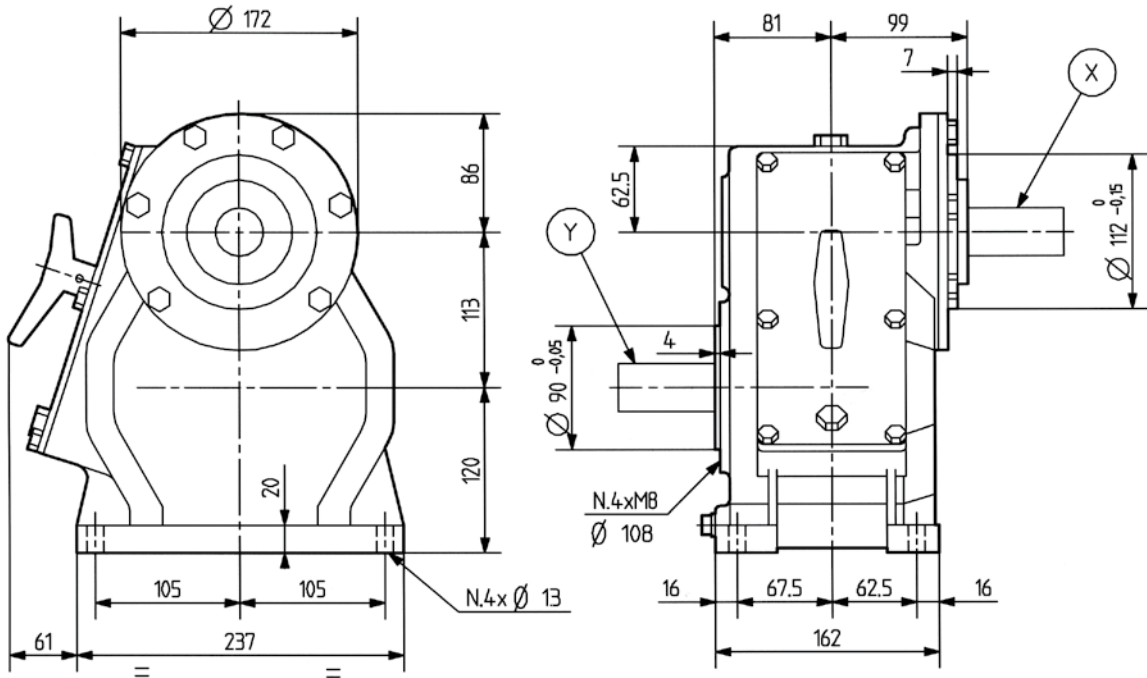
D-21A



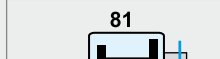
3.01

Code **721**

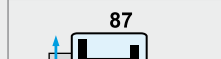
	[kg]	31
	[l]	1.8



i			 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								



81



87

D-21B



3.01

Code **721**



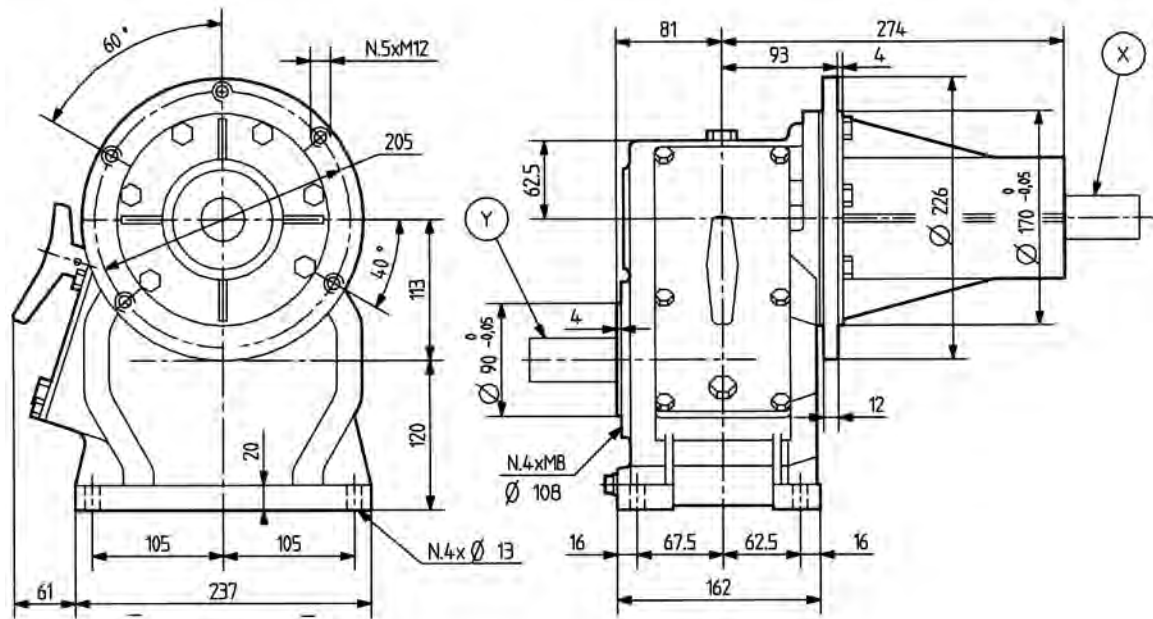
[kg]

37



[l]

1.8



i				std spec			Input			
	rpm	kW	HP	Nm	lb.in.					
M → 	2.95 - 3.88	41.2	56.0	-	-	std	Y	81-87		
	3.61 - 4.53	40.5	55.0	-	-					
	540									

D-21D



3.01

Code **721**



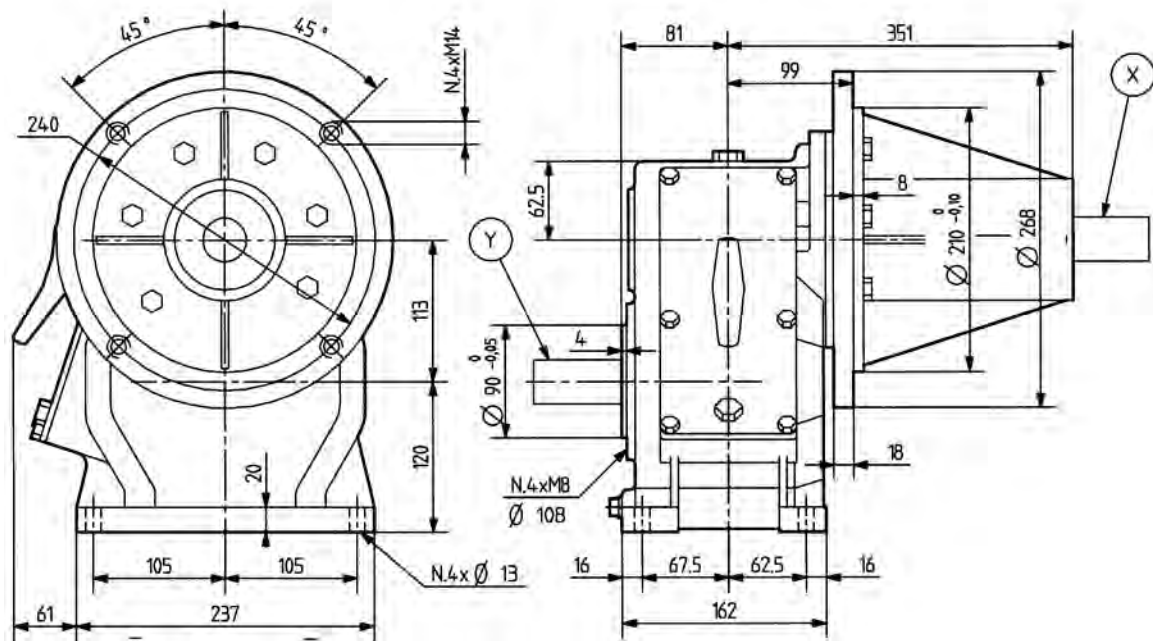
[kg]

46.5



[l]

1.8



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

81

87

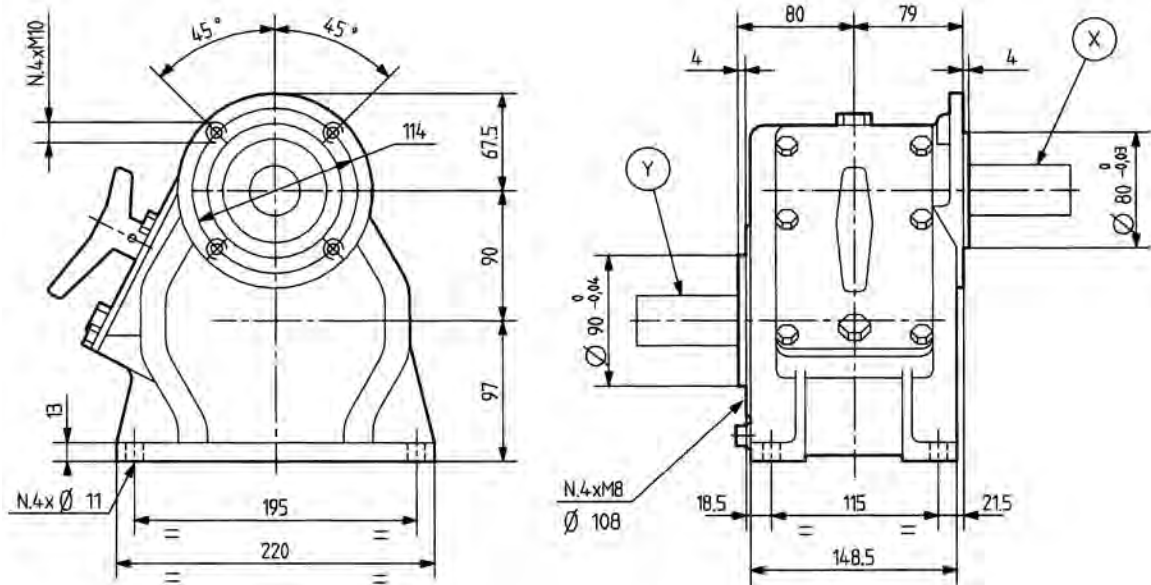
D-27A



3.01

Code **727**

	[kg]	22.5		[l]	1.3
--	------	------	--	-----	-----



i				std spec		Input	81-87		
	rpm	kW	HP	Nm	lb.in.				
M ⇒ +	3.69 - 4.36	540	22.1	30.0	-	std	Y	81	87
	3.69 - 4.40								
	3.69 - 4.80								

D-27B



3.01

Code **727**

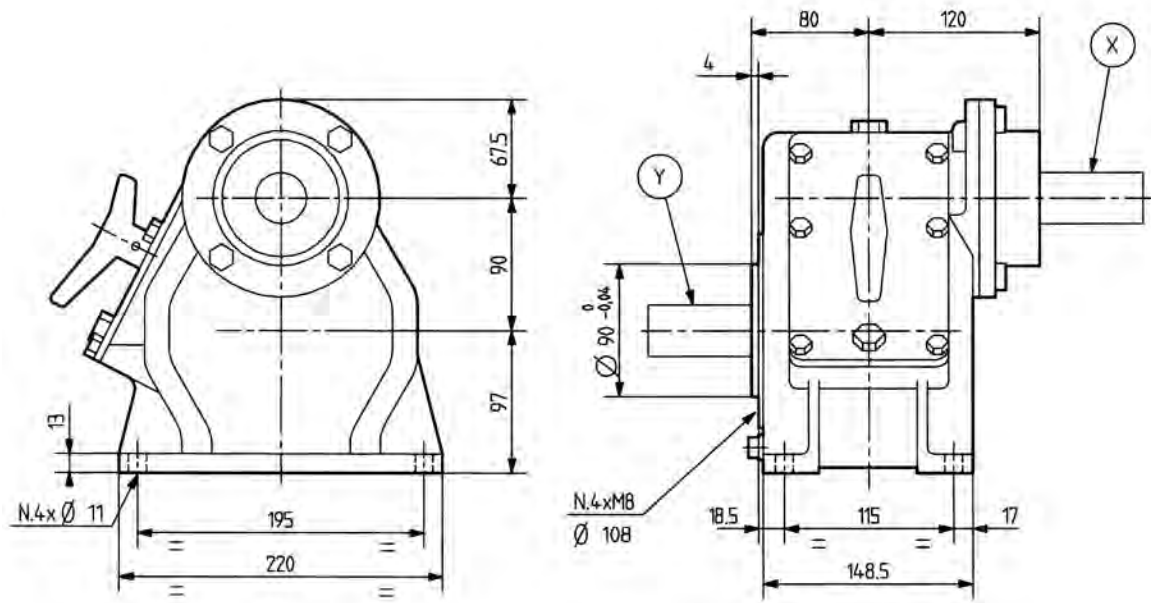
[kg]

25



[1]

1.3



i							std spec		
		rpm	kW	HP	Nm	lb.in.		Input	
 M	3.69 - 4.36	540	22.1	30.0	-	-	std	Y	81-87
	3.69 - 4.80				-	-			
	4.00 - 5.25				-	-			

D-732A



4.06



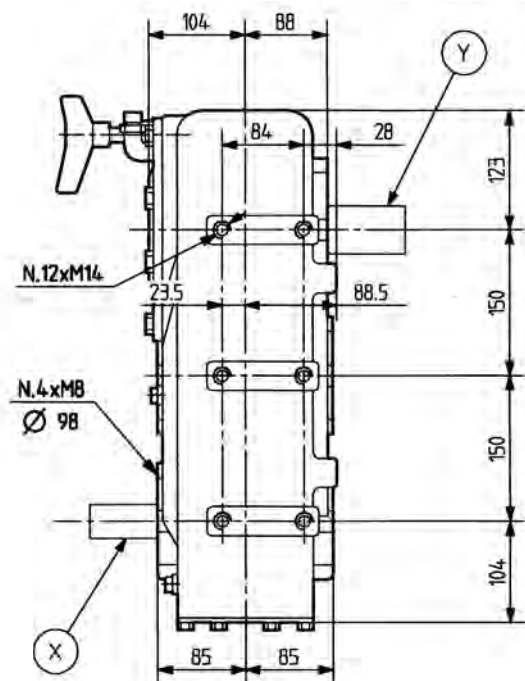
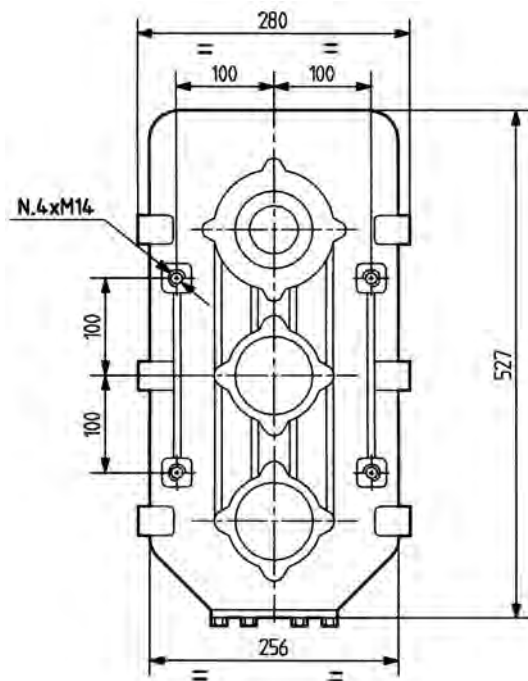
[kg]

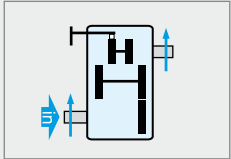
62



[l]

5.6



	i				std spec				
		rpm	kW HP	Nm lb.in.			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]

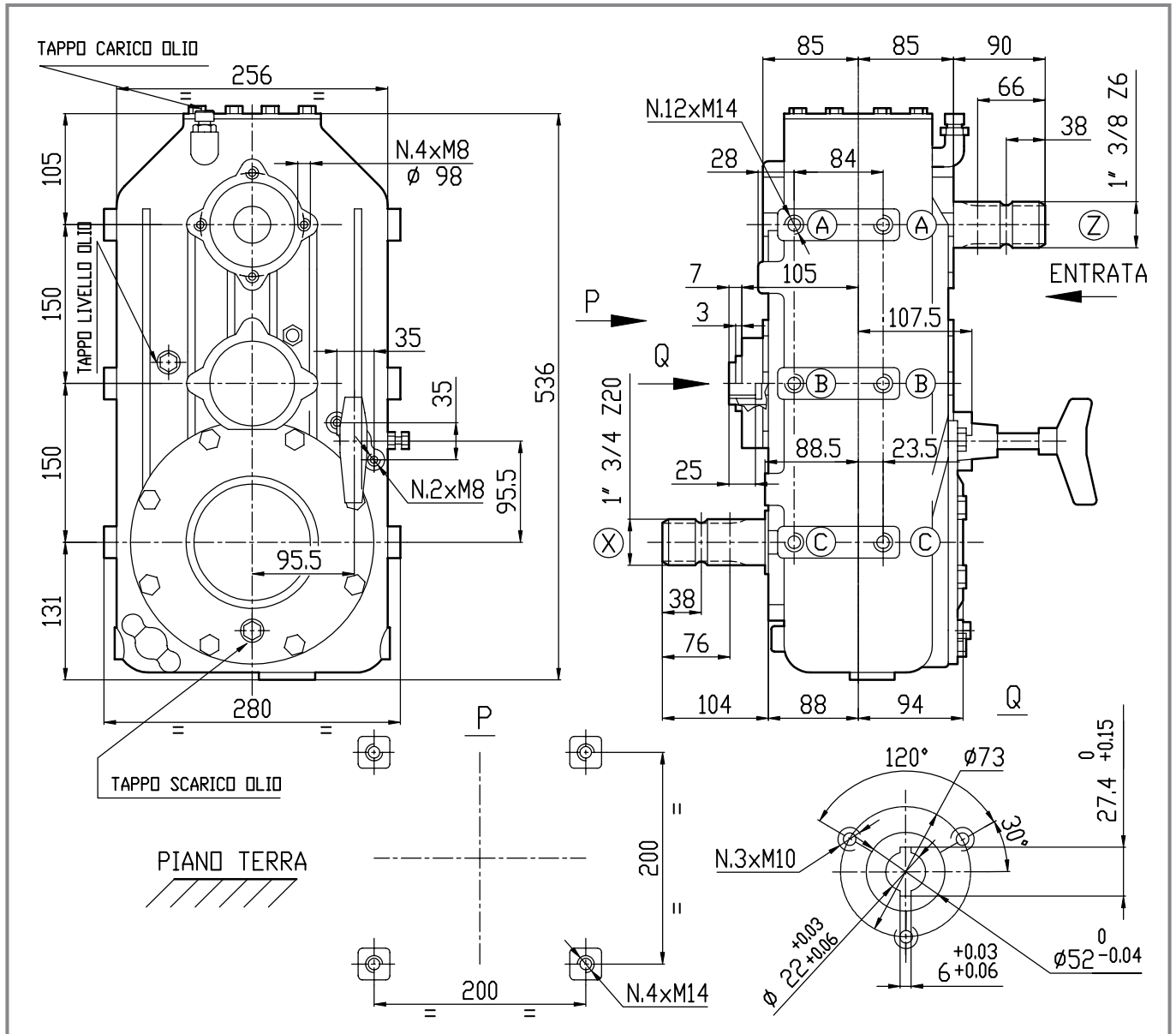
62



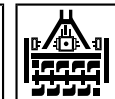
[l]

5.6

Disponibile con attuatore elettrico 2 e 3 posizioni.
Available with electric actuator 2 and 3 positions.



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



2.02

2.01

Vers. DZ-733F



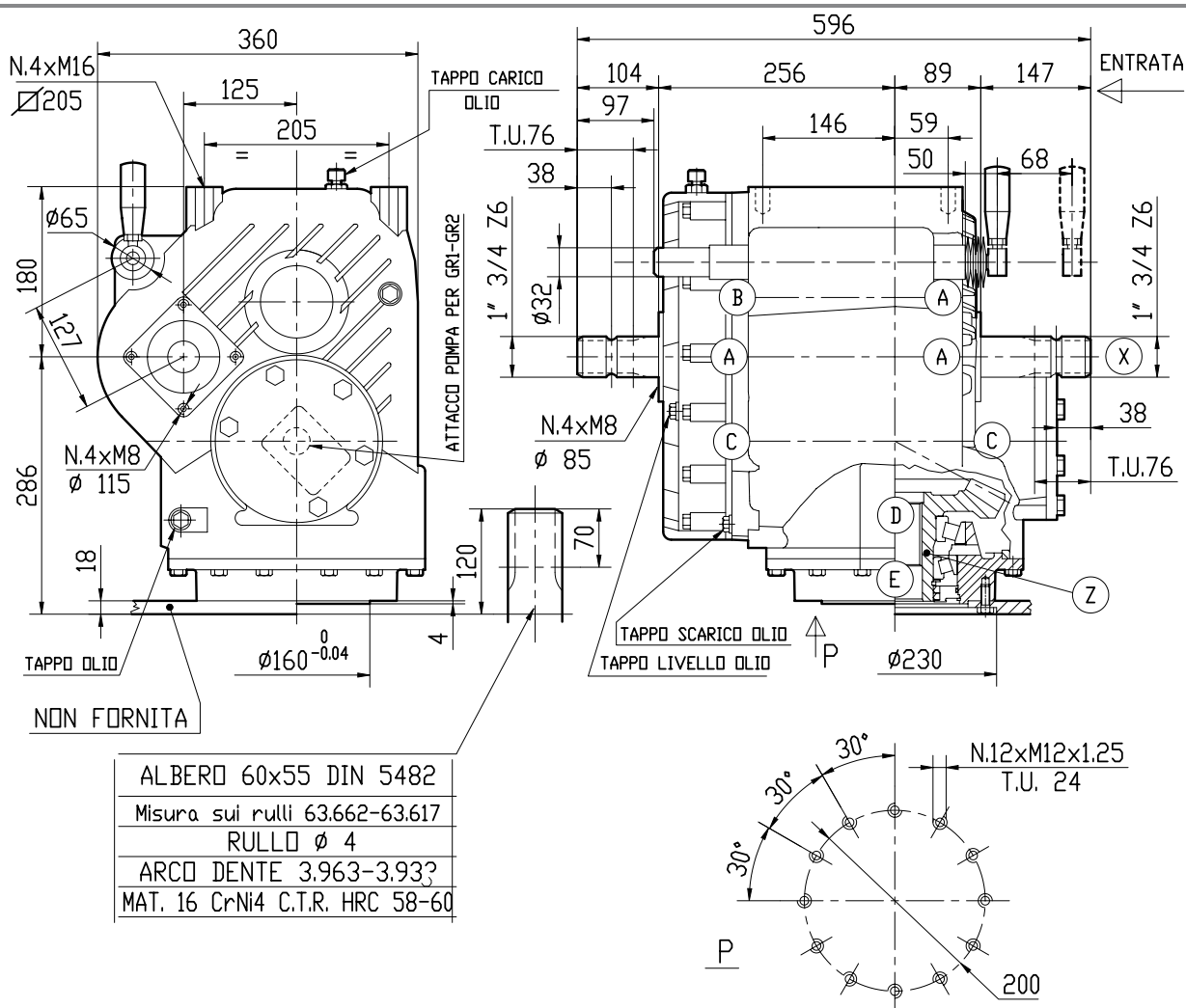
[kg]

—



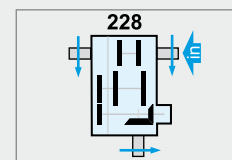
[1]

—

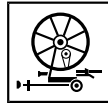


					std spec		
i		rpm	kW HP	Nm lb.in.		Input	
R		3.14					
		3.64	1000	132.5 180			std X 228

NOTA: Disponibili rapporti di riduzione compresi tra 1.82 e 4.06.
NOTE: Available ratios from 1.82 to 4.06.



D-741A



3.04



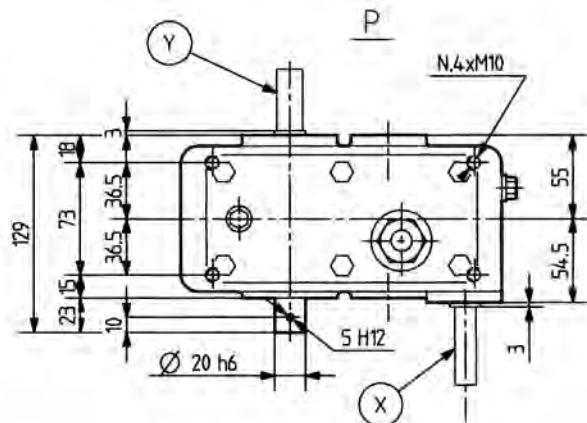
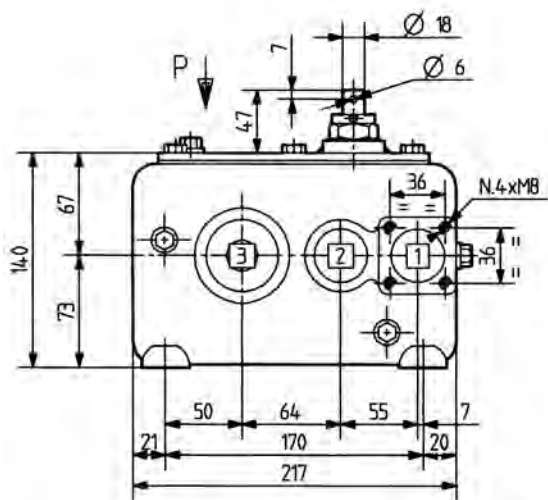
[kg]

9.4



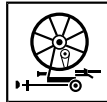
[l]

0.9



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

D-742



3.04



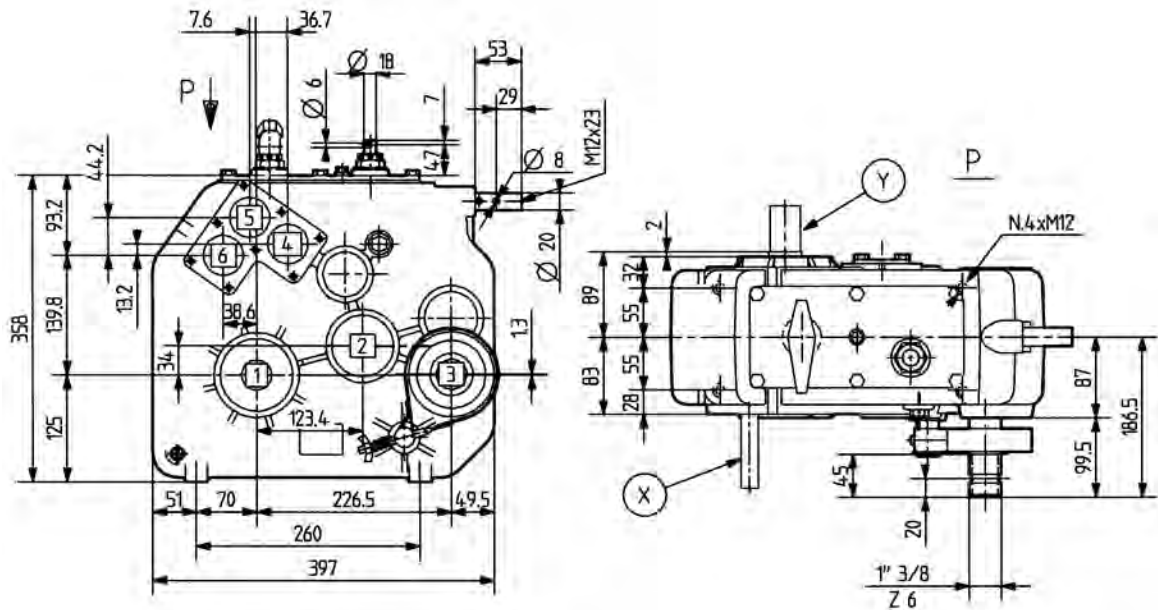
[kg]

53

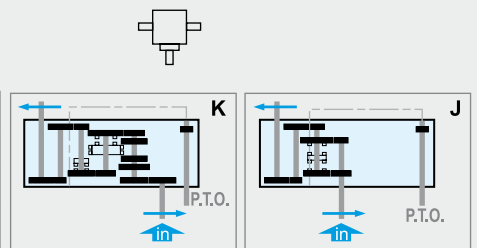


[l]

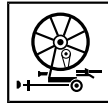
11



	i			P.T.O.	std spec		Input	
	I	756	2000	18522	10.7	std	X	
	II	348						
	III	241						
	IV	116						
	I	250	2000	18522	10.7	std	X	
	II	115						



D-743



3.04



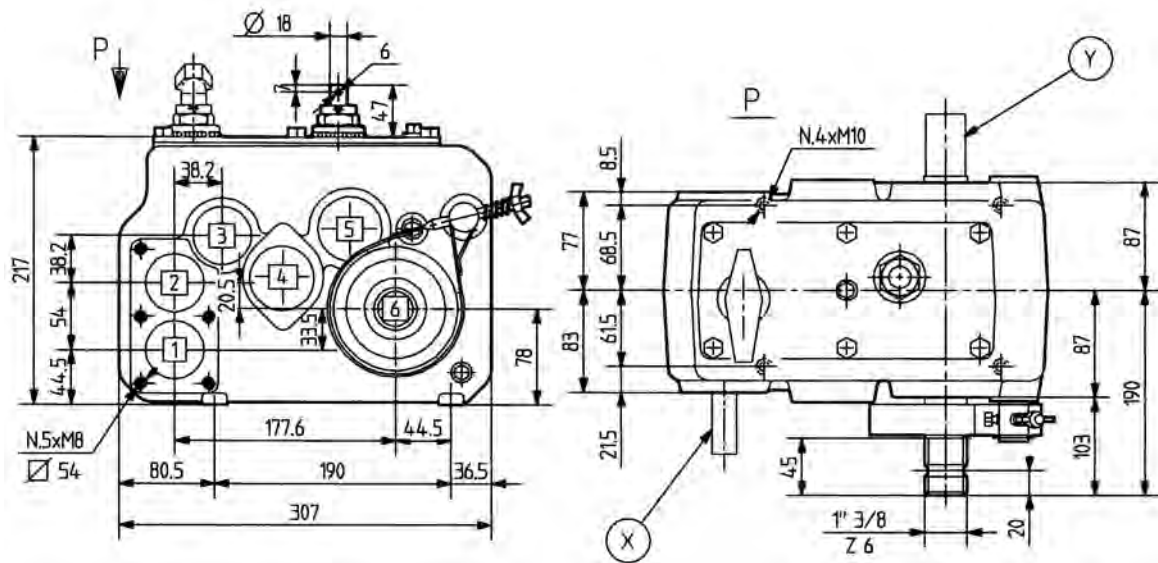
[kg]

28.5



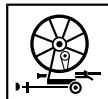
[l]

4.3



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

D-744



3.04



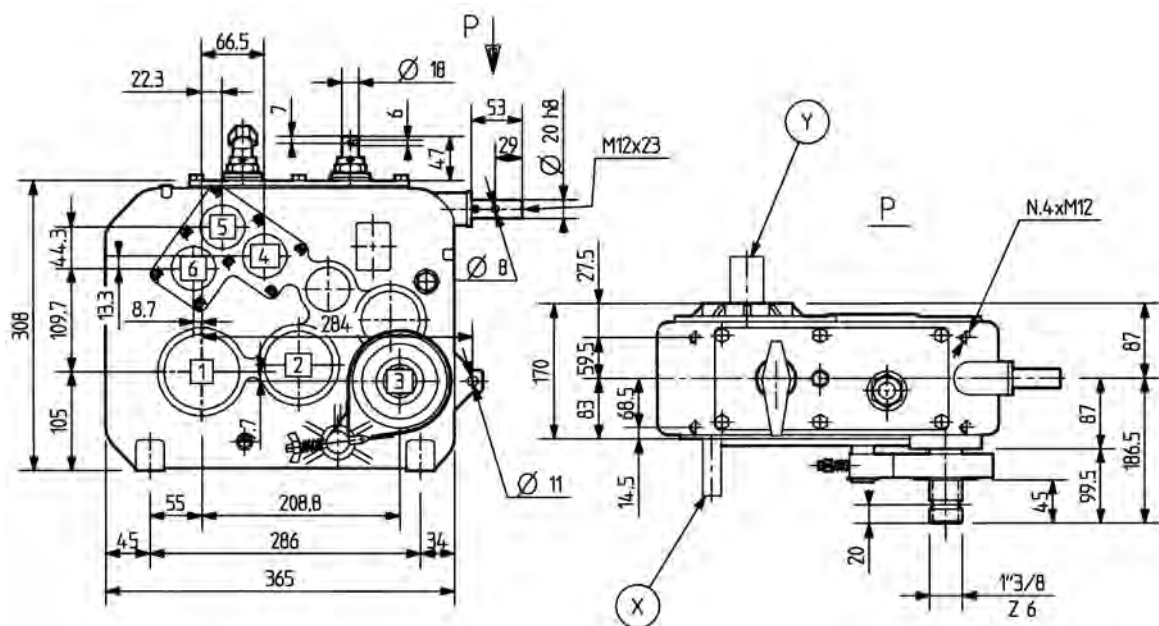
[kg]

46

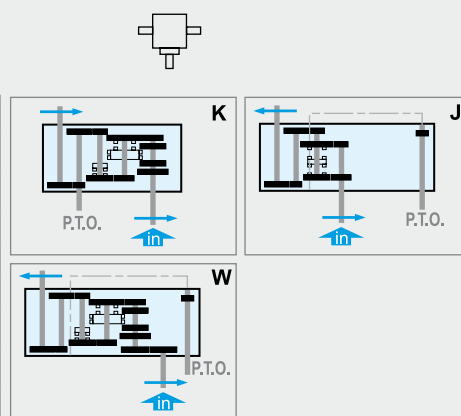


[l]

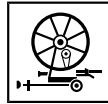
7.0



	i			P.T.O.	std spec		Input	
	I	781	1100	10186	11.09	std	X	W
	II	360						
	III	249						
	IV	120						
	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						



D-745



3.04



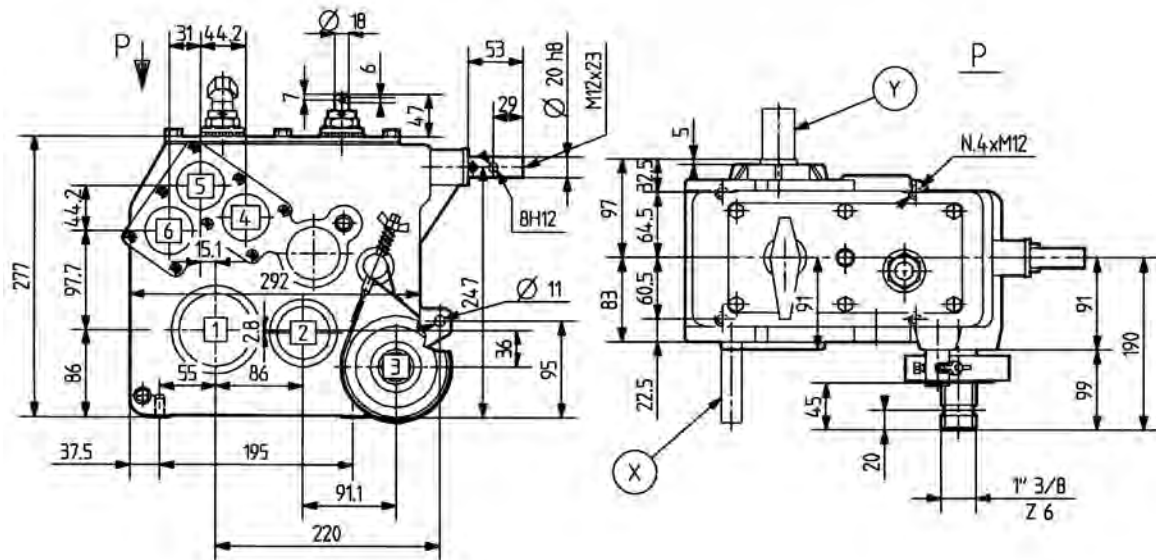
[kg]

37

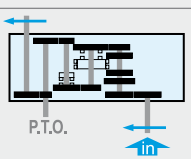


[l]

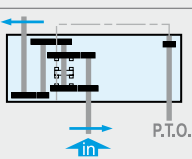
5.7



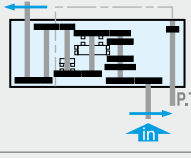
i				P.T.O.	std spec			
		Nm	lb.in.			Input		
	I	766	600	5557	11	std	X	W
	II	353						
	III	244						
	IV	118						
	I	766	600	5557	4.6	std	X	K
	II	353						
	III	244						
	IV	118						
	I	254	600	5557	11	std	X	J
	II	117						



K

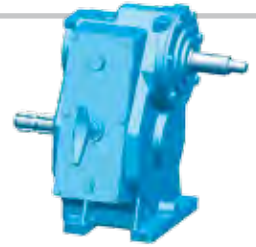


J

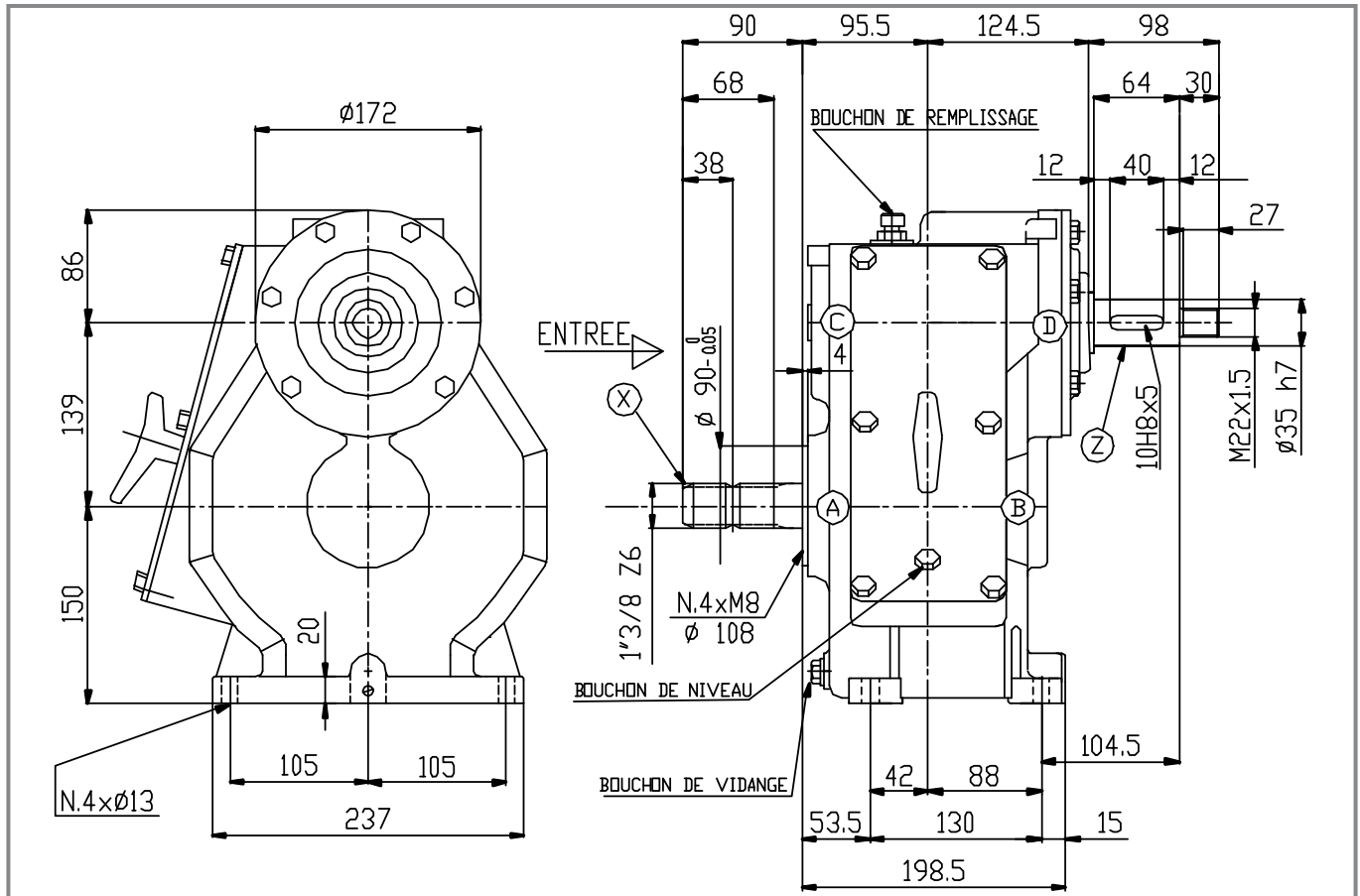


W

3.01



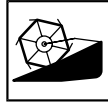
	[kg]	44		[l]	-
---	------	----	---	-----	---



	i	 rpm	 kW  HP	 Nm  lb.in.	std spec	 Input	
 	6.85	540	47.8 65.0	- -			81-87
	7.50						

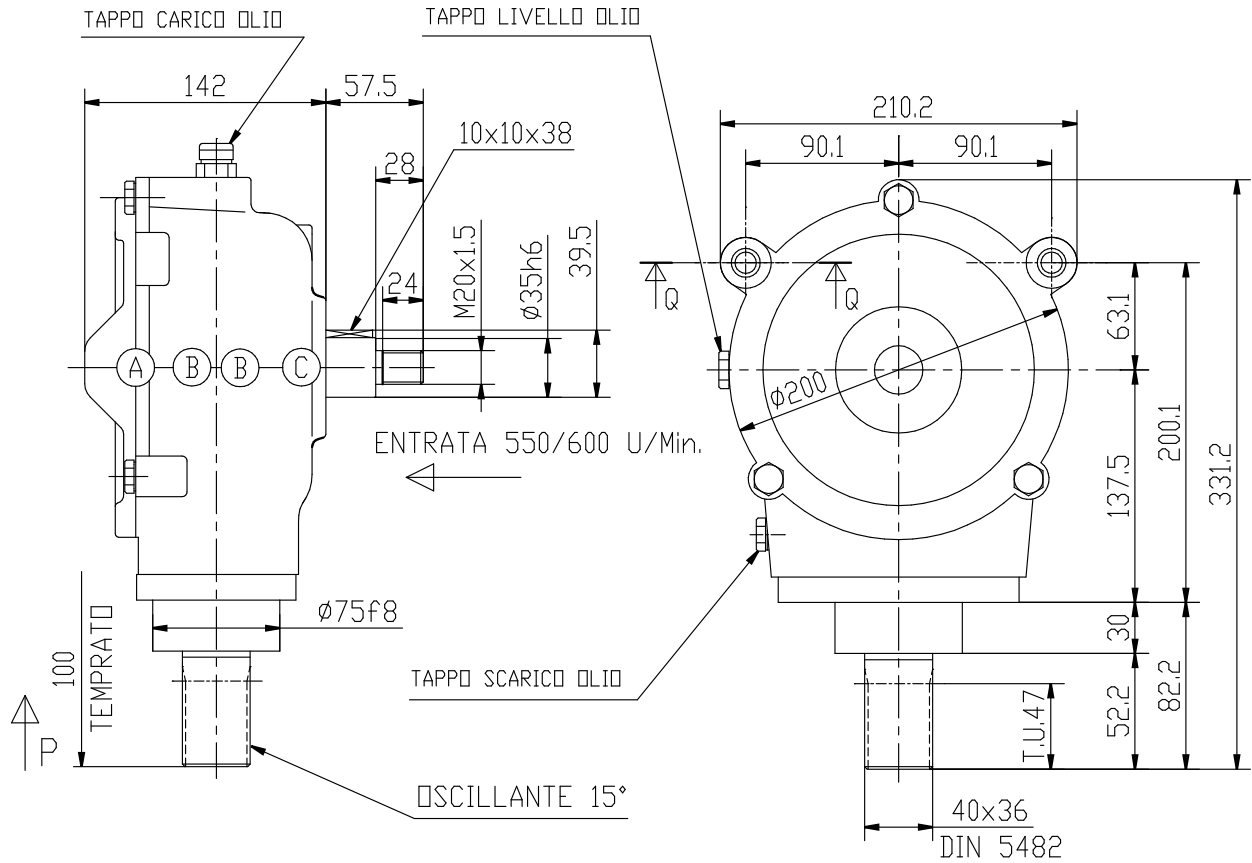



OS-784

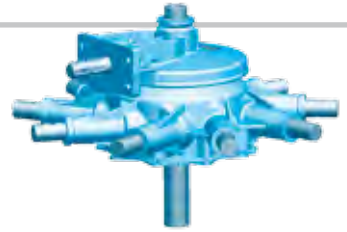


4.08

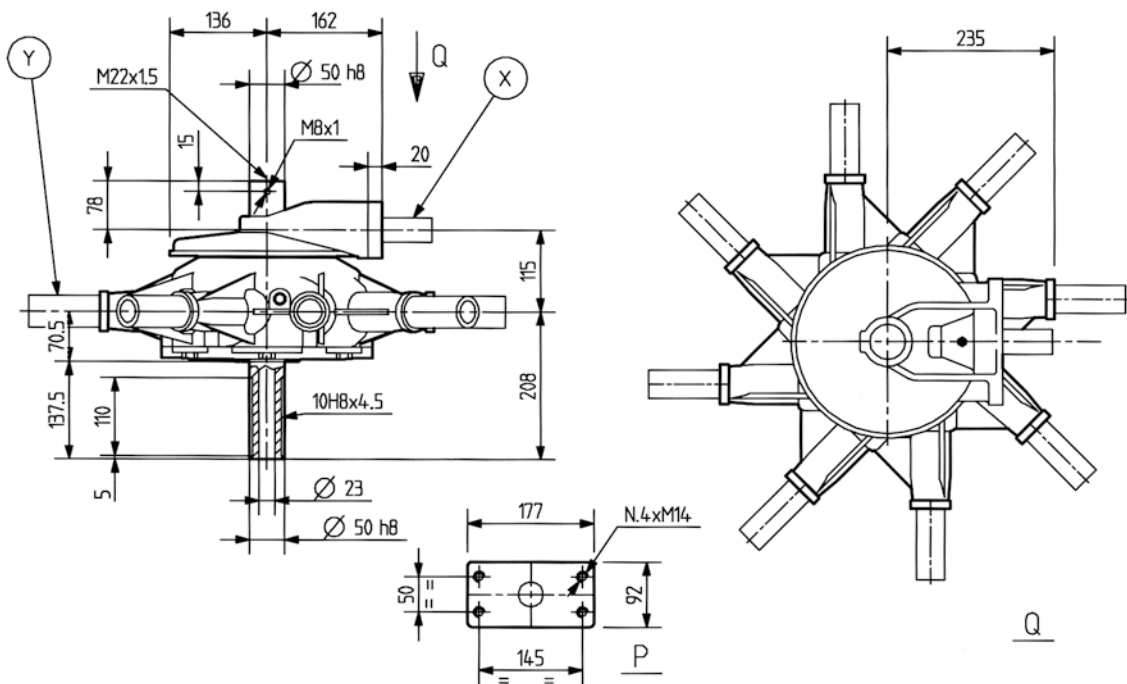
	[kg]	21		[l]	-
---	------	----	---	-----	---



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



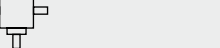
	[kg]	67		[l]	2.8
---	------	----	---	-----	-----



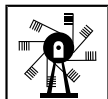
		i					std spec		
			rpm	kW HP	Nm lb.in.			Input	
R		6.80	540	-	19	1759	std	X	201
		7.20		-					



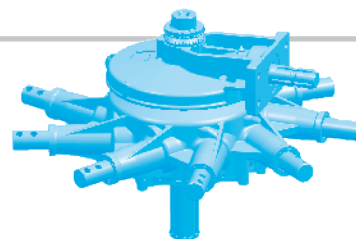
201



K-791A

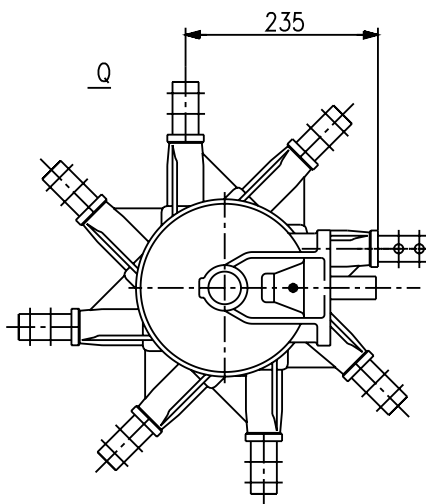
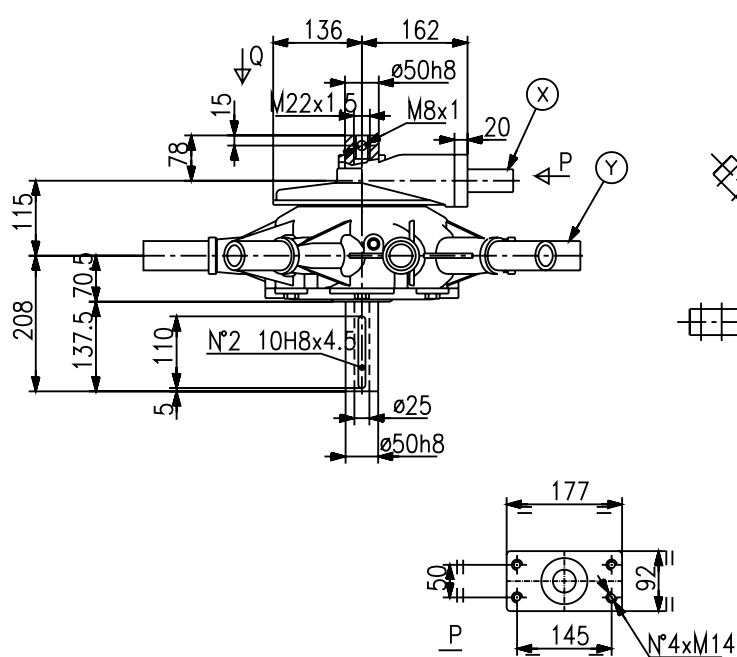


4.02

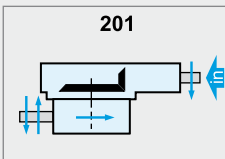


Disponibile versione Dx e Sx.
Available Lh and Rh version.

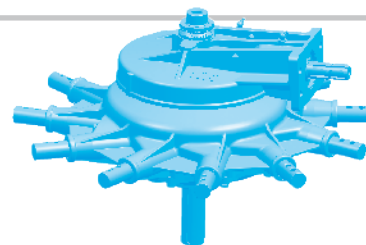
	[kg]	75		[l]	3.1
--	------	----	--	-----	-----



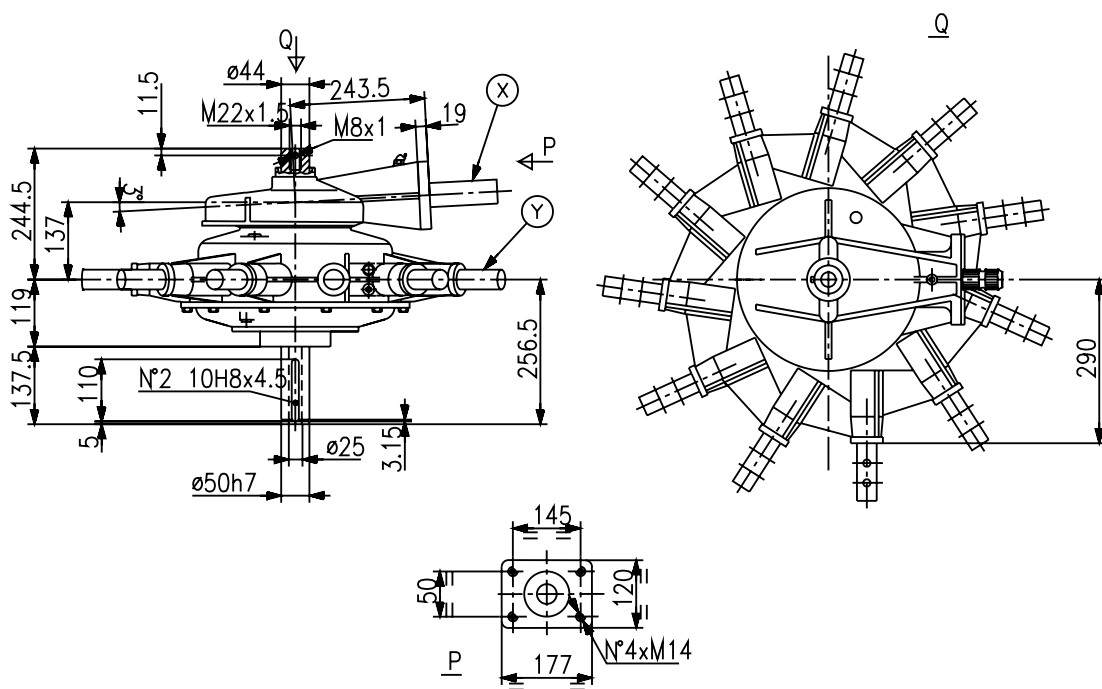
		i						std spec		
			rpm	kW	HP	daNm	lb.in.		Input	
R		6.80	-	-	19	1759	std	X		201
		7.20	-	-						

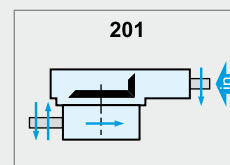
4.02



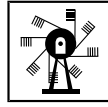
	[kg]	100		[l]	5.7
---	------	-----	---	-----	-----



							std spec		
i		rpm	kW	HP	daNm	lb.in.		Input	
R		7.20	-	-	21	1935	std	X	201 Versioni DX e SX Versions left and right
		8.10	-	-					
		9.70	-	-					



K-794A



4.02



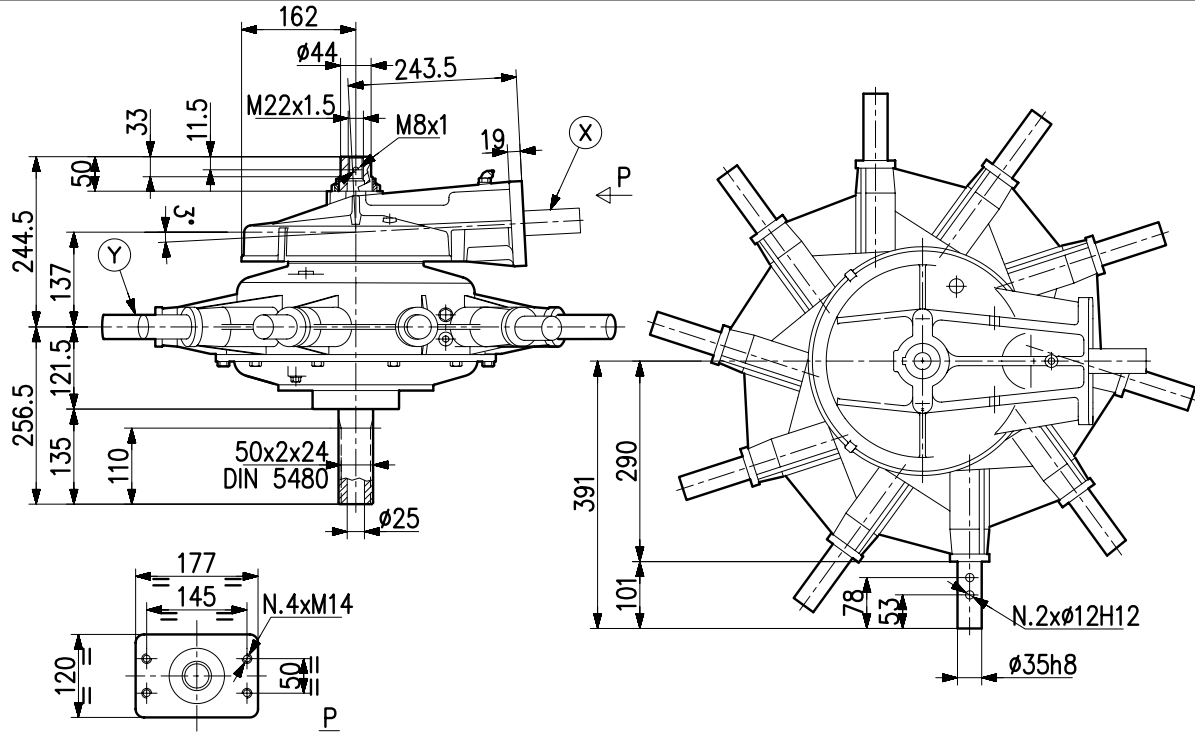
[kg]

114



[l]

-



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

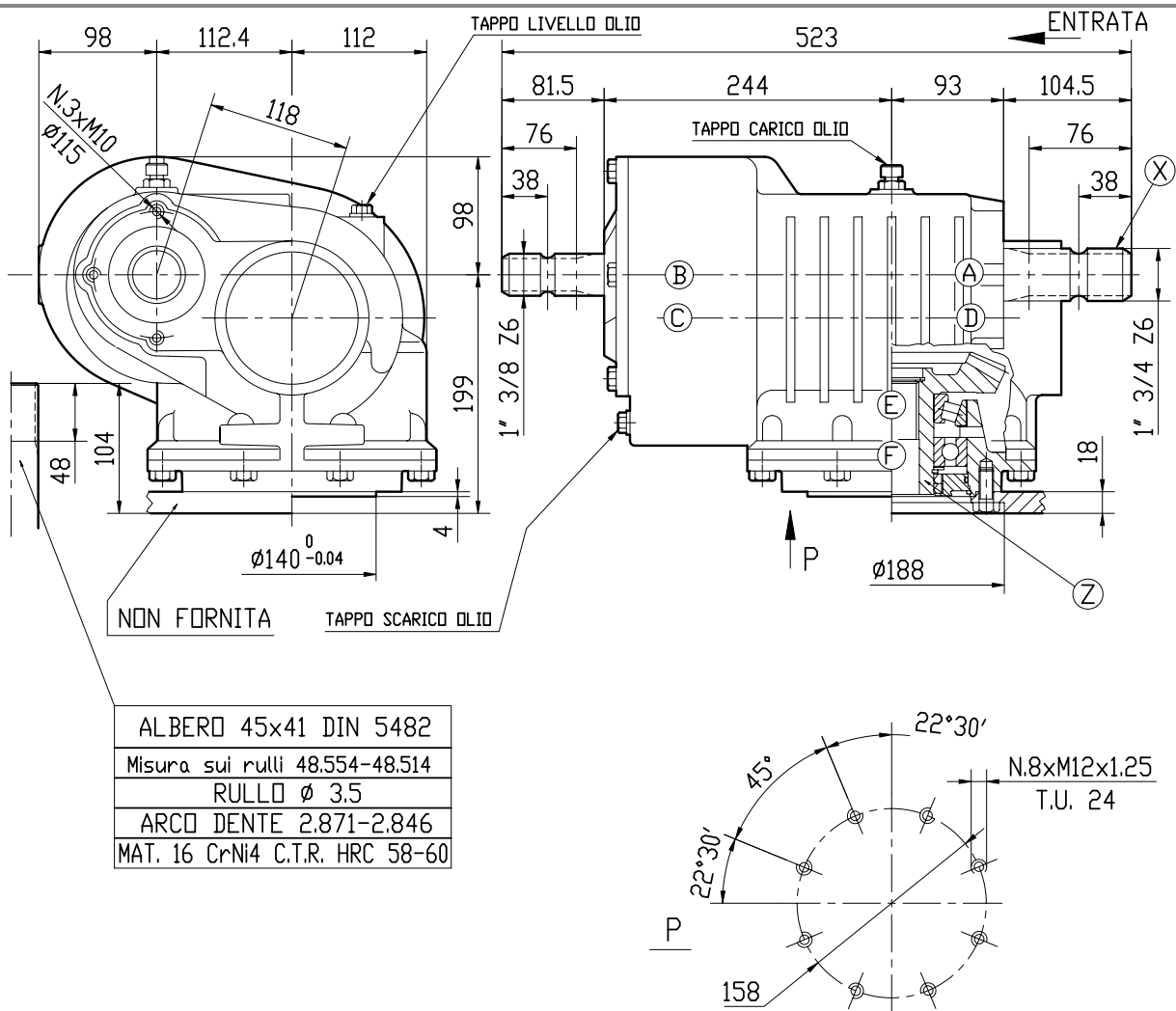
4.02

MV-814F



2.02

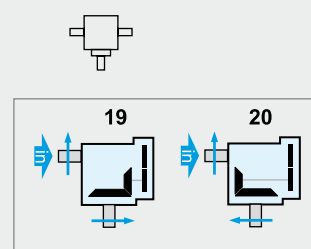
	[kg]	66		[l]	-
--	------	----	--	-----	---



ALBERO 45x41 DIN 5482
Misura sui rulli 48.554-48.514
RULLO ϕ 3.5
ARCO DENTE 2.871-2.846
MAT. 16 CrNi4 C.T.R. HRC 58-60

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

NOTA: Disponibili rapporti di riduzione compresi tra 1.21 e 4.49.
NOTE: Available ratios from 1.21 to 4.49.



MV-817F



2.02



2.01

Vers. MZ-817F



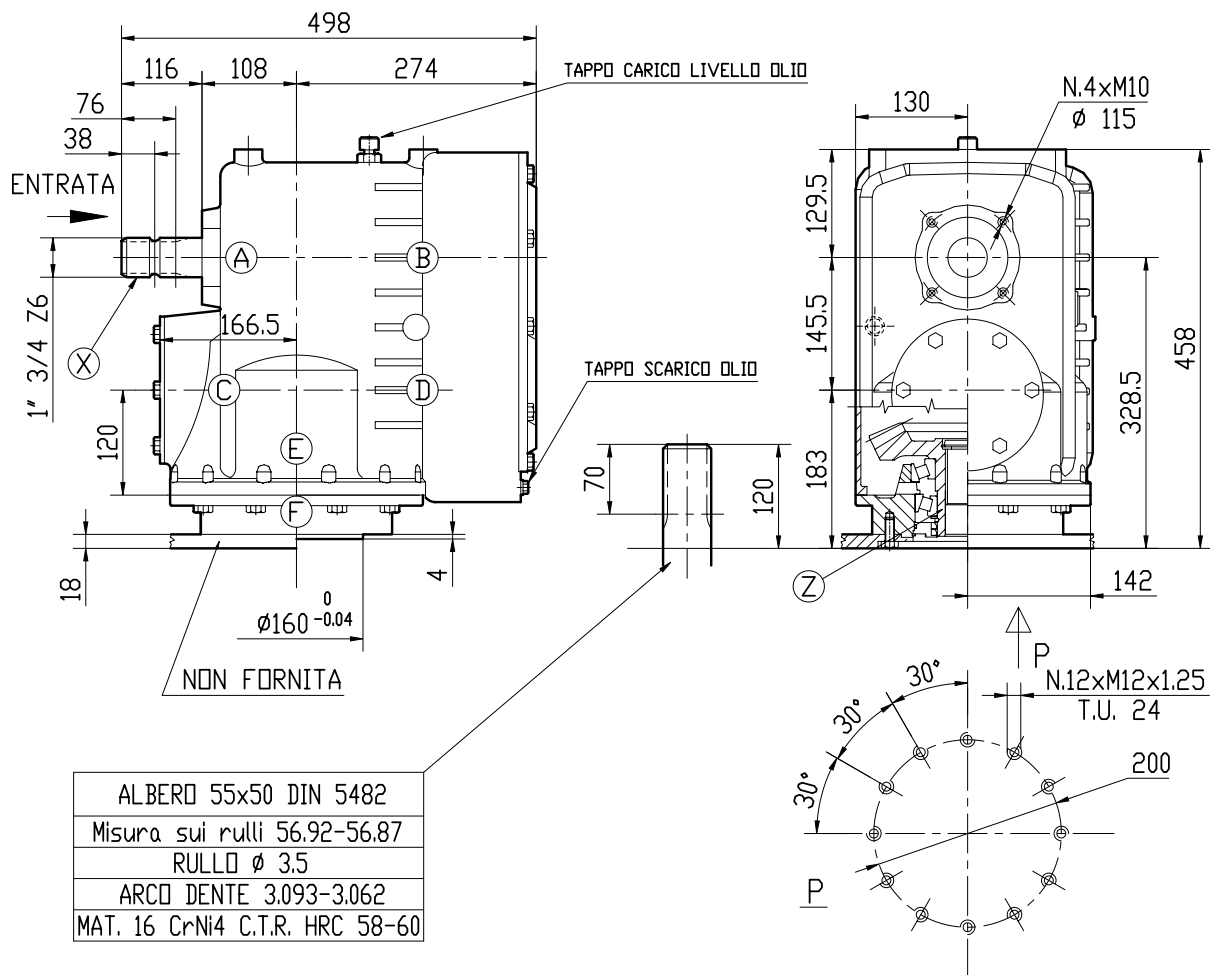
[kg]

100



[l]

-



i	rpm	kW	HP	Nm	lb.in.	std spec	Input	
R	1.67	540	70.0	95.0				19-20
	2.57					std	X	
	2.97	1000	77.0	105				

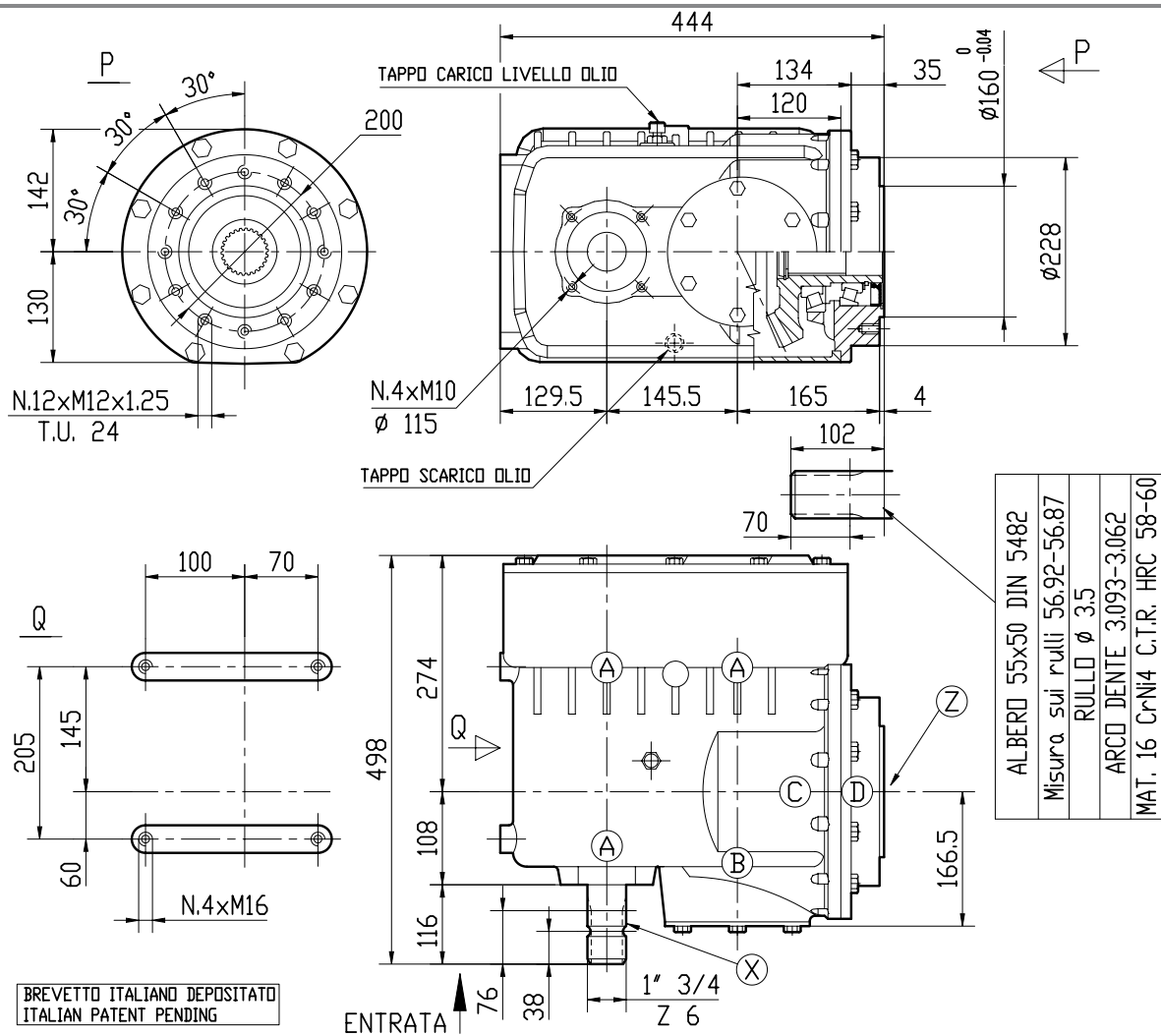
NOTA: Disponibili rapporti di riduzione compresi tra 1.24 e 5.28.
NOTE: Available ratios 1.24 to 5.28.

MZ-817F



2.01

	[kg]	100		[l]	-
--	------	-----	--	-----	---



BREVETTO ITALIANO DEPOSITATO
ITALIAN PATENT PENDING

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

NOTA: Disponibili rapporti di riduzione compresi tra 1/24 e 5/28

NOTA: Disponibili rapporti di riduzione compresi tra 1.24 e 5.28.

NOTE: Available ratios 1.24 to 5.28.

MV-819F



2.02

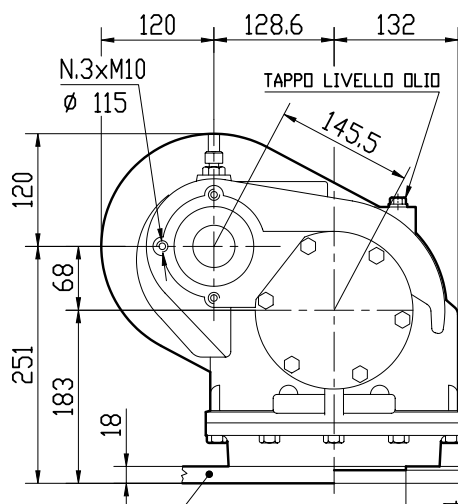


[kg]

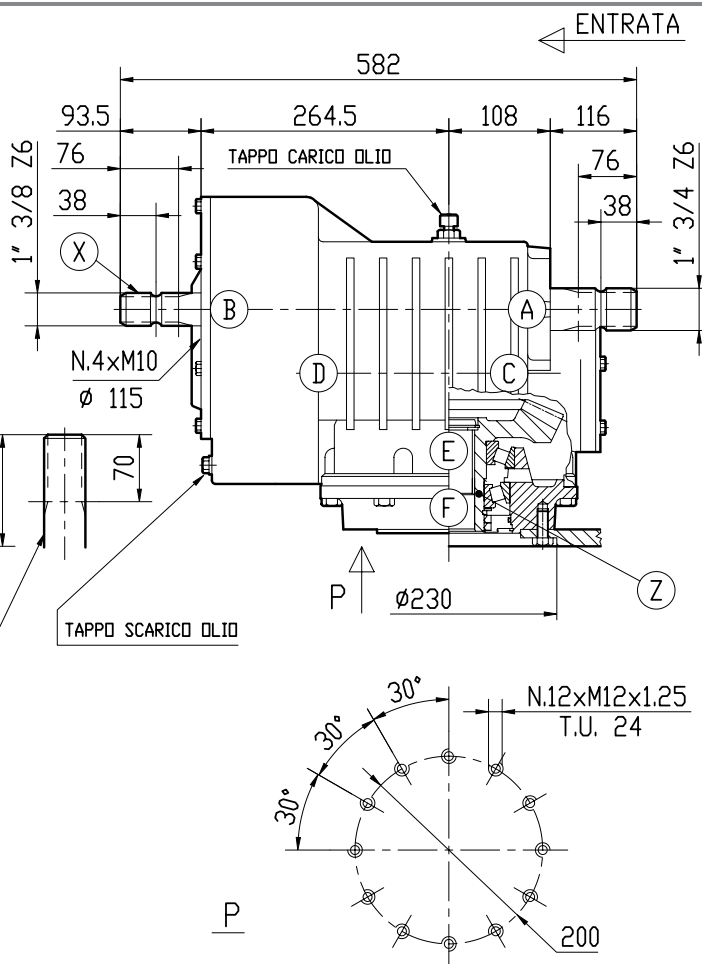
94



[l]

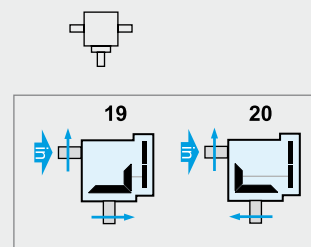


ALBERO 55x50 DIN 5482
Misura sui rulli 56.92-56.87
RULLO Ø 3.5
ARCO DENTE 3.093-3.062
MAT. 16 CrNi4 C.T.R. HRC 58-60



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

NOTA: Disponibili rapporti di riduzione compresi tra 1.24 e 5.28.
NOTE: Available ratios 1.24 to 5.28.

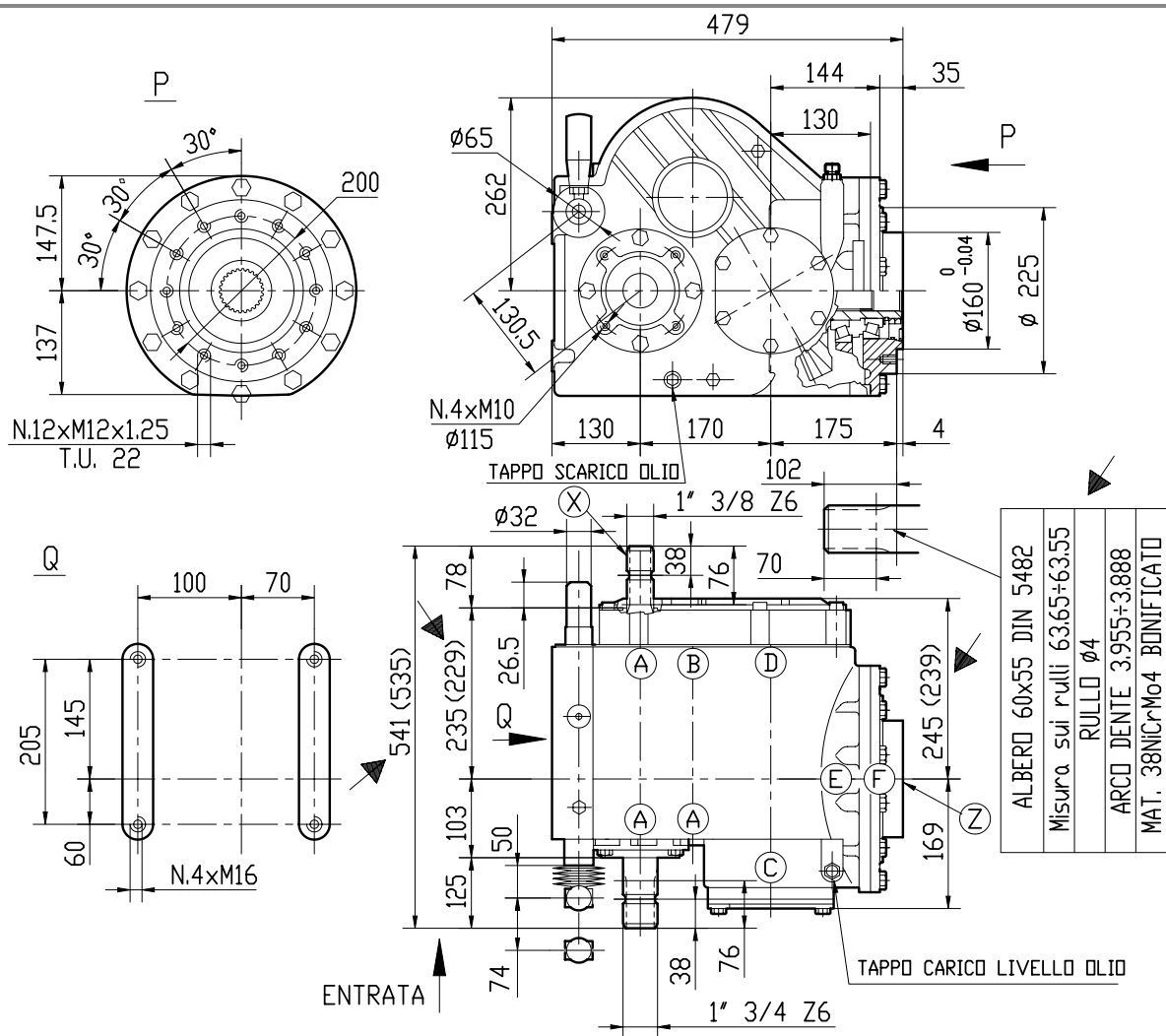


DZ-821F



2.01

	[kg]	148		[l]	-
--	------	-----	--	-----	---



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

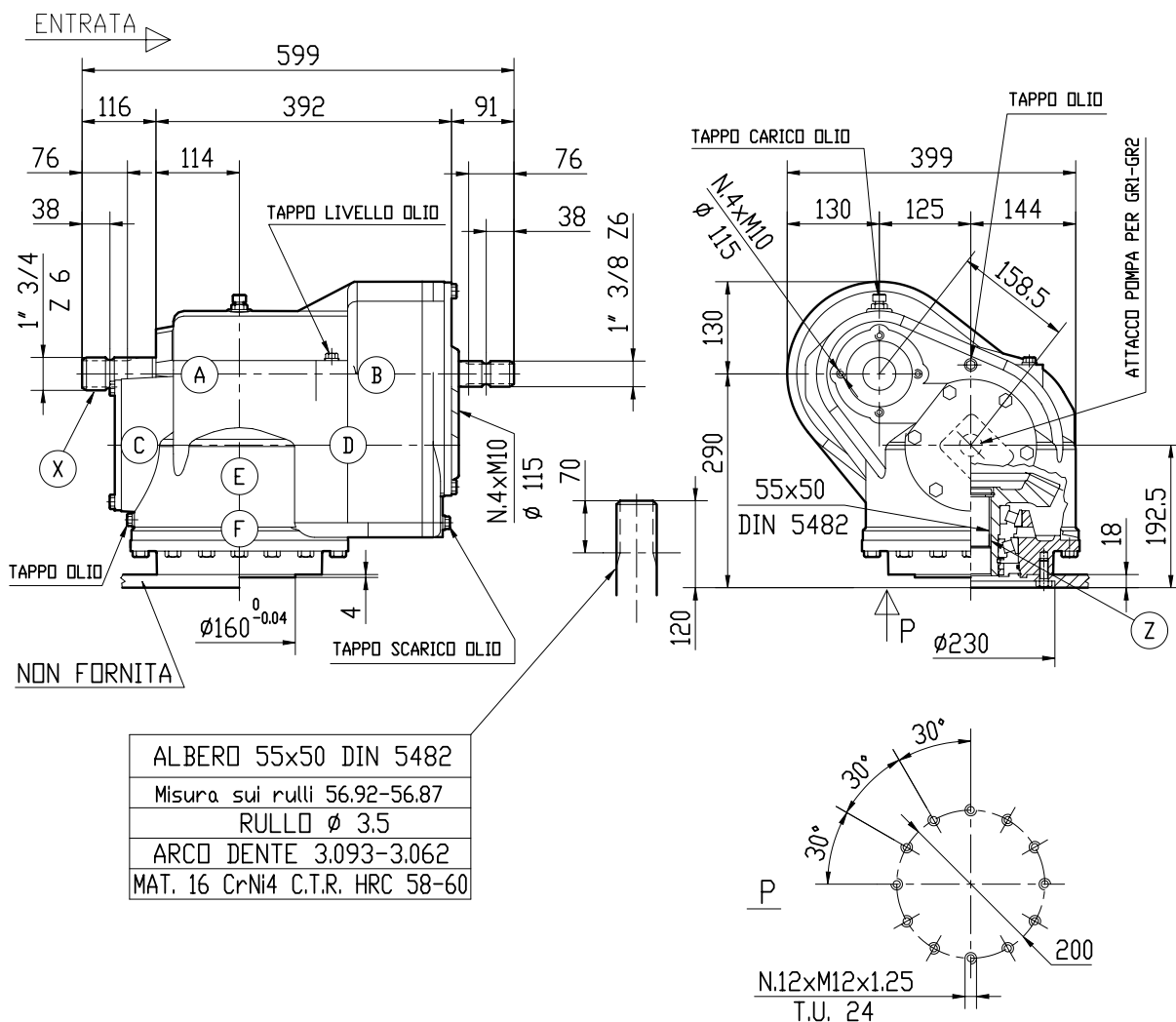
NOTA: Disponibili rapporti di riduzione compresi tra 1.25 e 5.9.
NOTE: Available ratios 1.25 to 5.91.

MV-824F



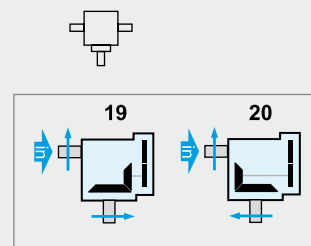
2.02

	[kg]	110		[l]	-
--	------	-----	--	-----	---



	i				std spec		Input	
		rpm	kW HP	Nm lb.in.				
R →	1.64	540	95.5 130				std X	19-20
	2.29							
	3.19	1000	99.0 135					

NOTA: Disponibili rapporti di riduzione compresi tra 1.17 e 5.27.
NOTE: Available ratios 1.17 to 5.27.



MV-826F



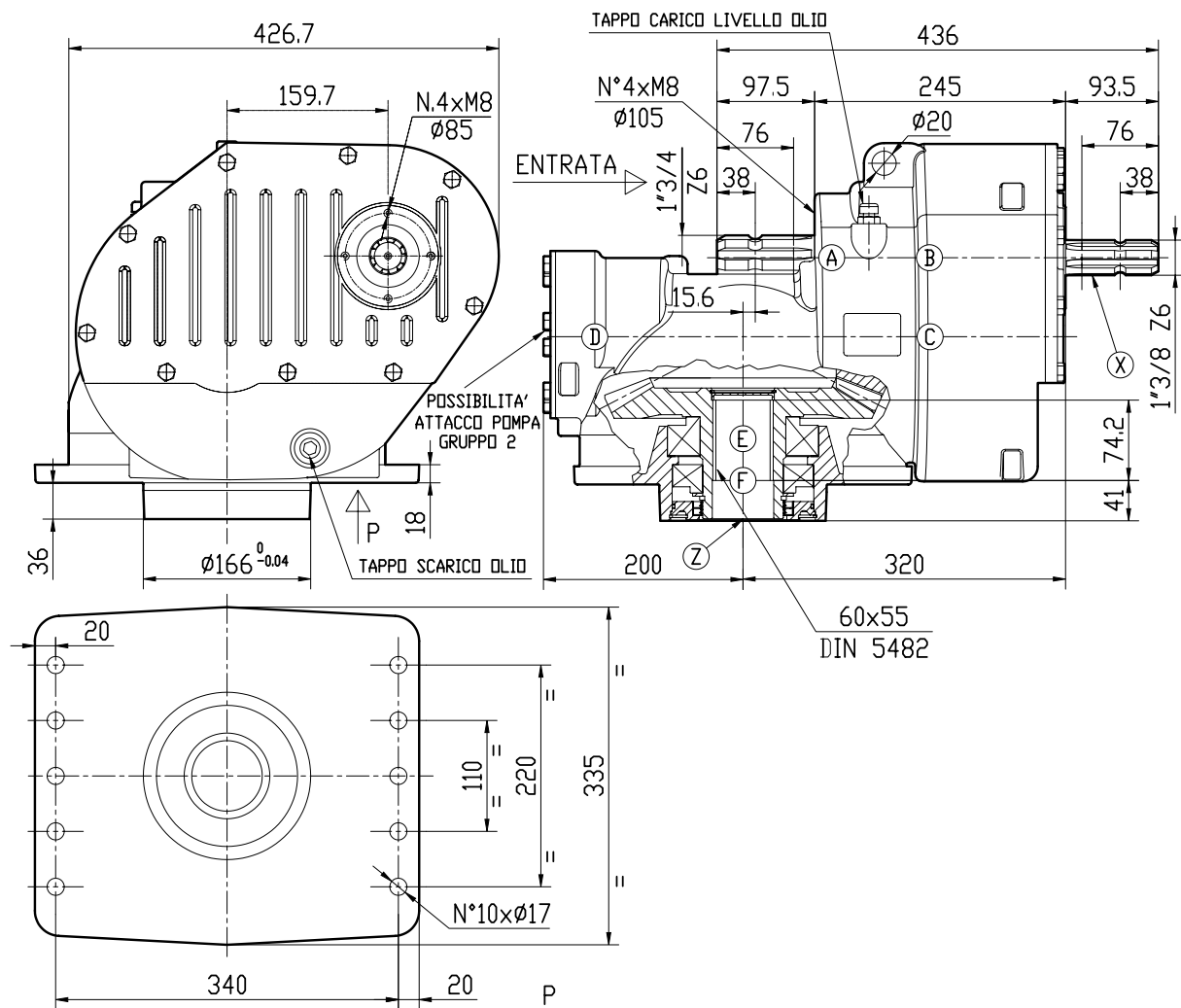
2.02



[kg] 122



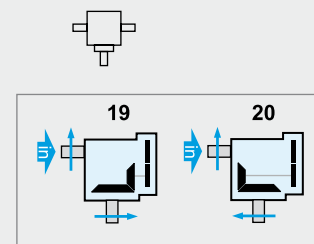
[l] -



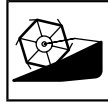
i						std spec			
		rpm	kW	HP	Nm	lb.in.	Input		
R		3.35	1000	147	200		std	X	19-20

NOTA: Disponibili rapporti di riduzione compresi tra 2.30 e 4.21.

NOTE: Available ratios 2.30 to 4.21.



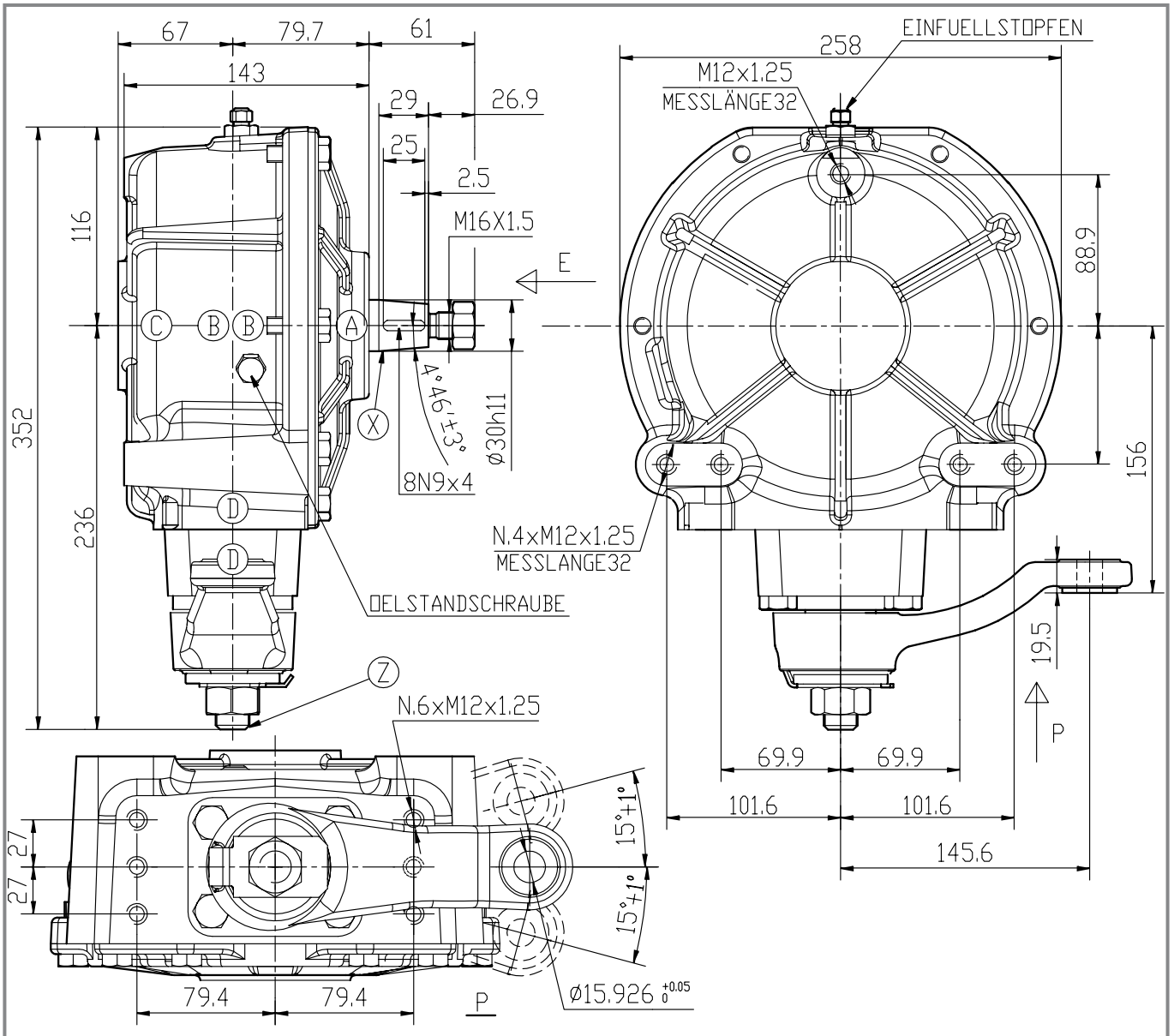
OS-861



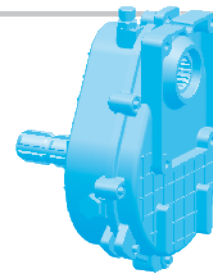
4.08



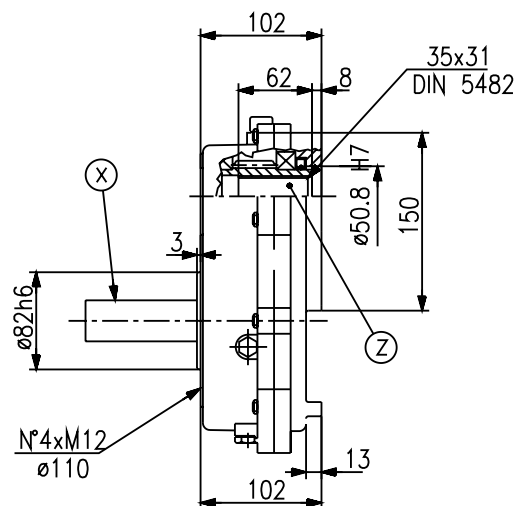
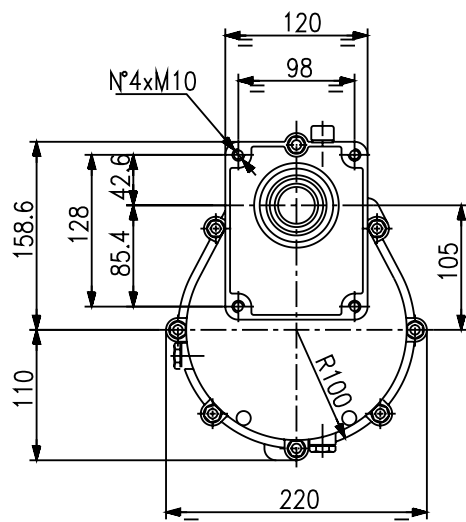
	[kg]	22.4		[l]	-
--	------	------	--	-----	---



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

Code **5351**

Disponibile connessione.
Available connection.



M	i	rpm	kW HP	Nm lb.in.	std spec	Input			
	3.10	540	25	34	138	1276	std	X	41-42
	3.37				127	1175			
	1.77				103	953			

41

42

C-3A

Code **5367**



4.06

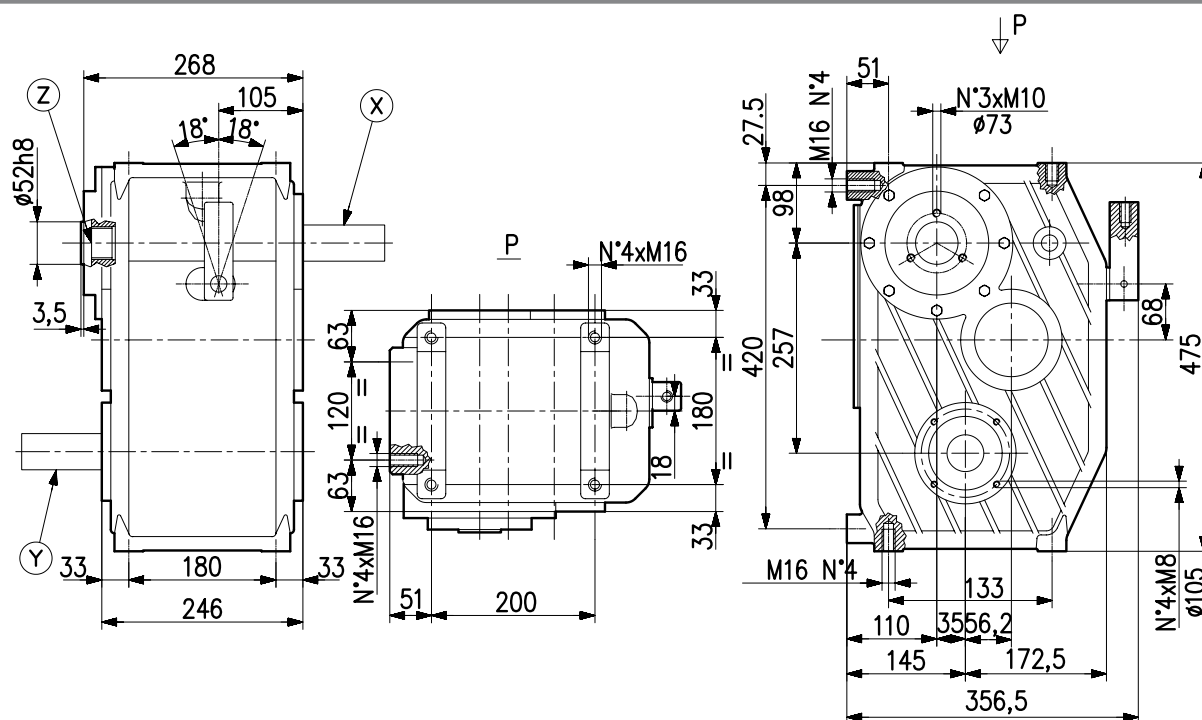


[kg] 100

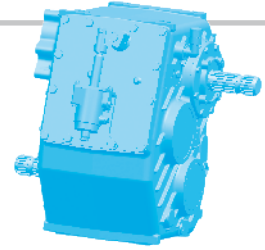


[l] 9.3

Disponibile con attuatore idraulico o elettrico 3 posizioni.
Available with hydraulic or electric actuator 3 positions.



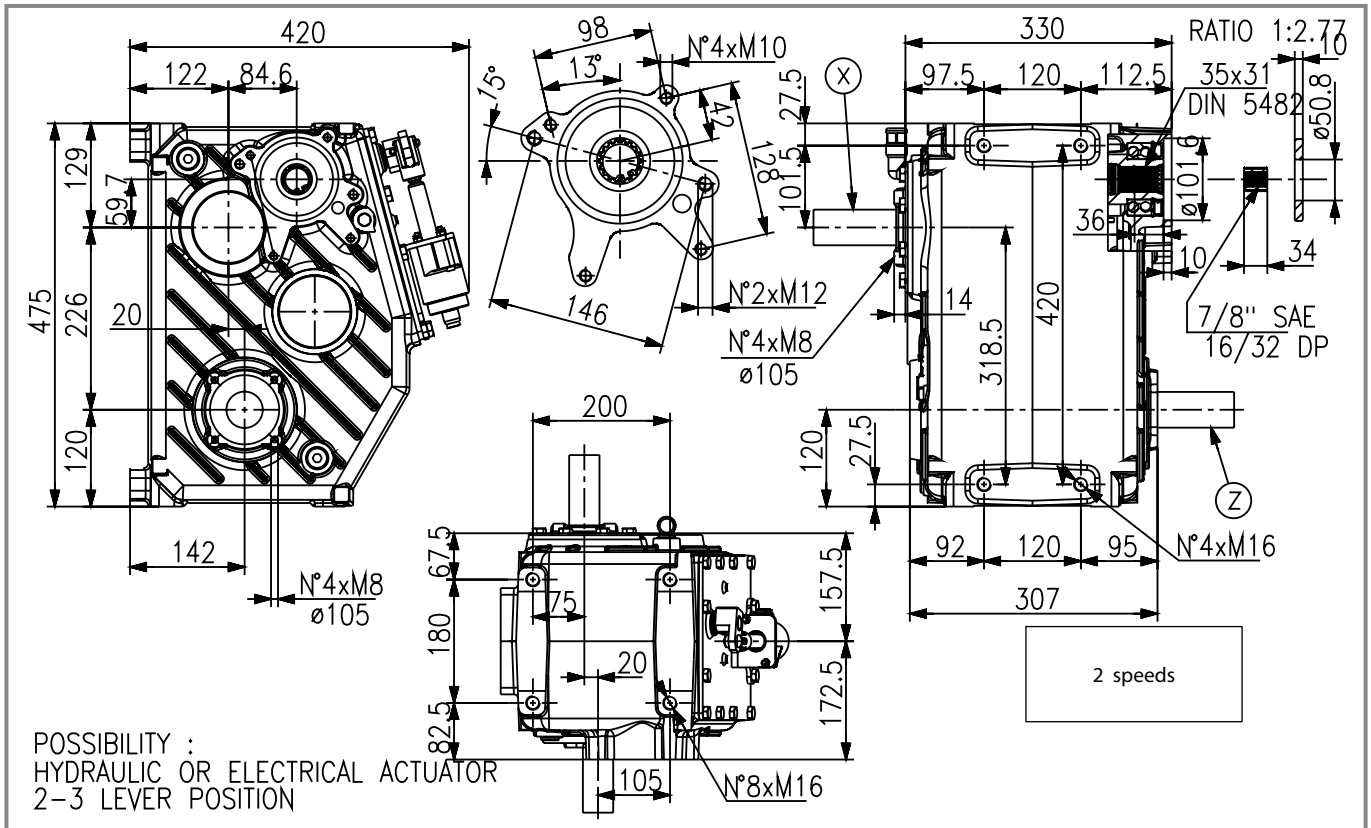
i						std spec			
	rpm	kW	HP	Nm	lb.in.		Input		
Rinforzati	1.00 - 1.80	540	92.0	125	-	-	std	X	-
	1.00 - 1.50	540	92.0	125	-	-			-
	1.28 - 2.30	1000	92.0	125	-	-	std	X	-
	1.80 - 2.73	1000	92.0	125	-	-			-
	1.80 - 3.20	1000	92.0	125	-	-			-
	1.00 - 1.80	540	110	150	-	-	std	X	-
	1.25 - 1.67	540	110	150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



[[1]] -

Ingranaggi Elicoidali. *Helical Gears.*

Disponibile con attuatore idraulico o elettrico 3 posizioni.
Available with hydraulic or electric actuator 3 positions.



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




MR-90



0.00

Code **95090**



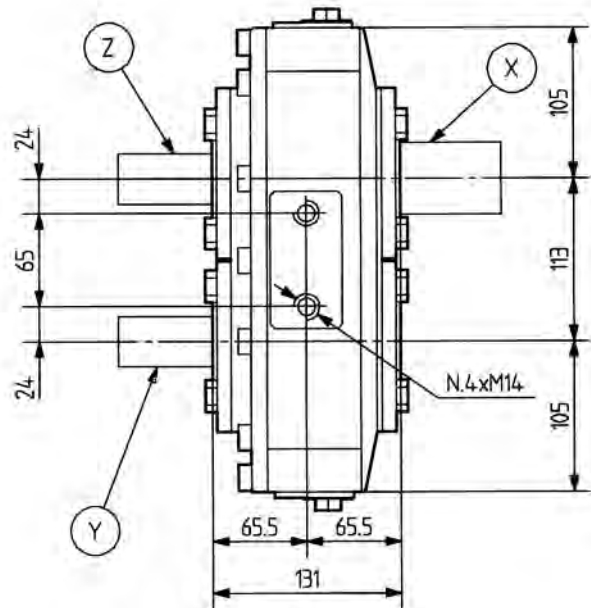
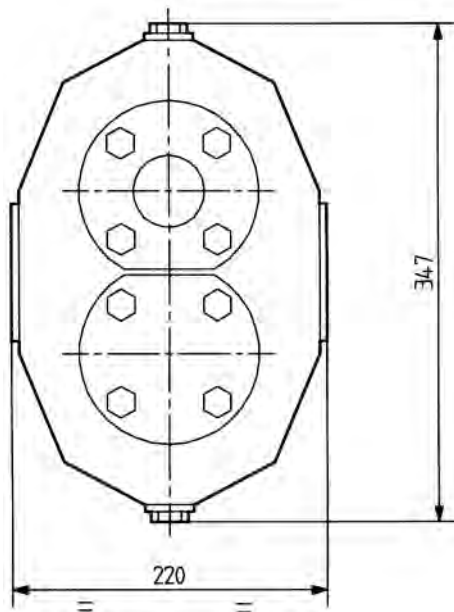
[kg]

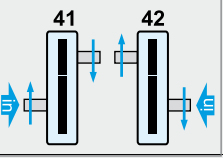
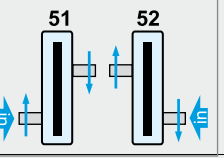
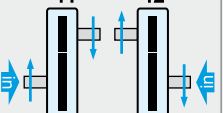
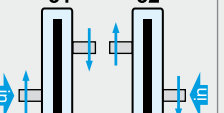
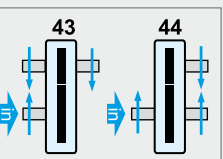
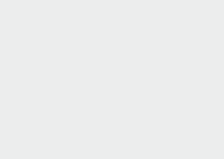
27.5



[l]

0.8



	i				std spec		Input				
		rpm	kW	HP	Nm	lb.in.					
—	1.00	540	62.6	85.0	1071	9921	std	X/Y	41-42		
M	1.90	540	64.0	87.0	577	5344	std	X	41-42		
R	1.90	540	31.6	43.0	1030	9535	std	Y	51-52		

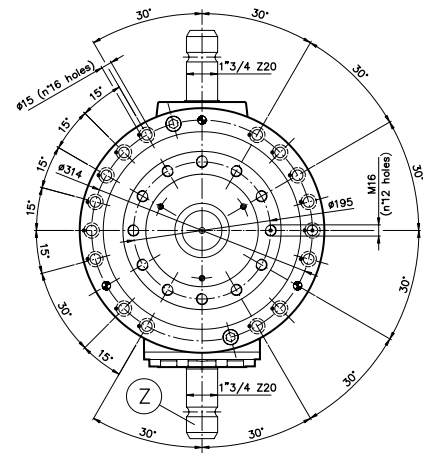
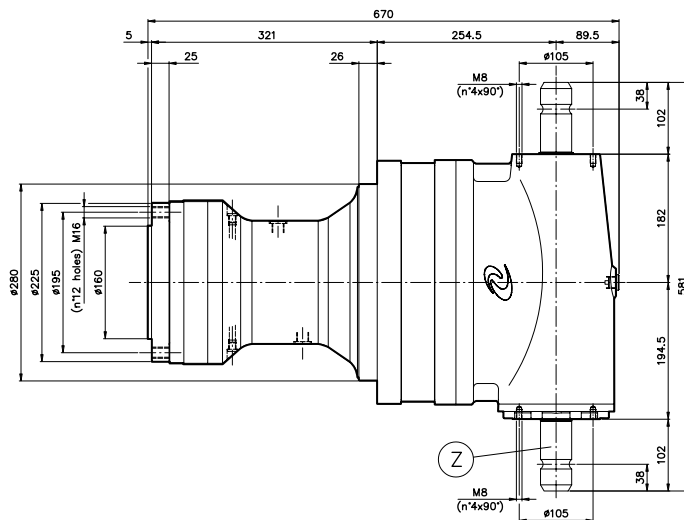
PGA-1202



4.06

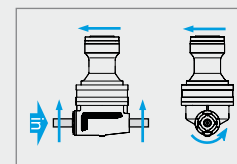


	[kg]	180		[l]	11
---	------	-----	---	-----	----



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

V37



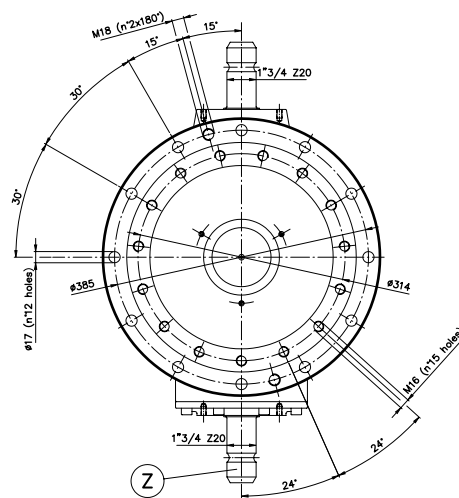
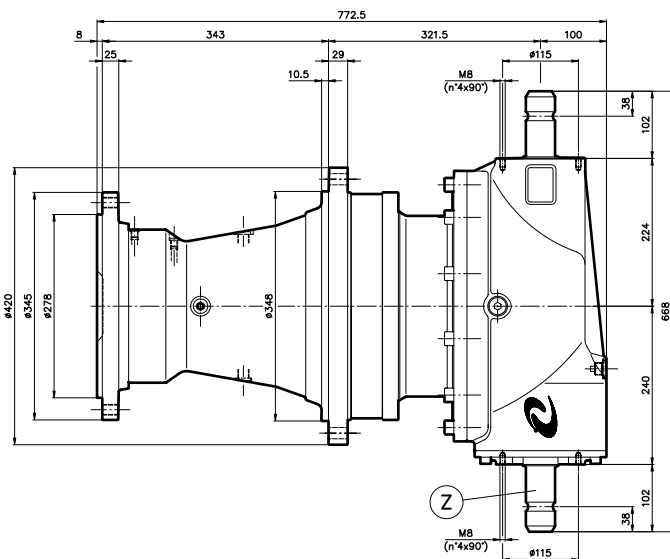
PGA-1602



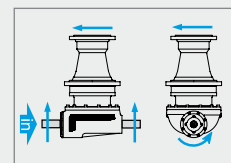
4.06



	[kg]	265		[l]	19.7
---	------	-----	---	-----	------



i				std spec		Input
	rpm	kW	HP	daNm	lb.in.	
R → + →	13.40*	-	-	1750	154890	std
	16.13	-	-	1570	138960	
	18.20	-	-	1350	119485	
	21.10	-	-	1201	106301	
		540				Z



V37

* Versione 4 satelliti.
4 satellites version.

PGA-1603



4.06



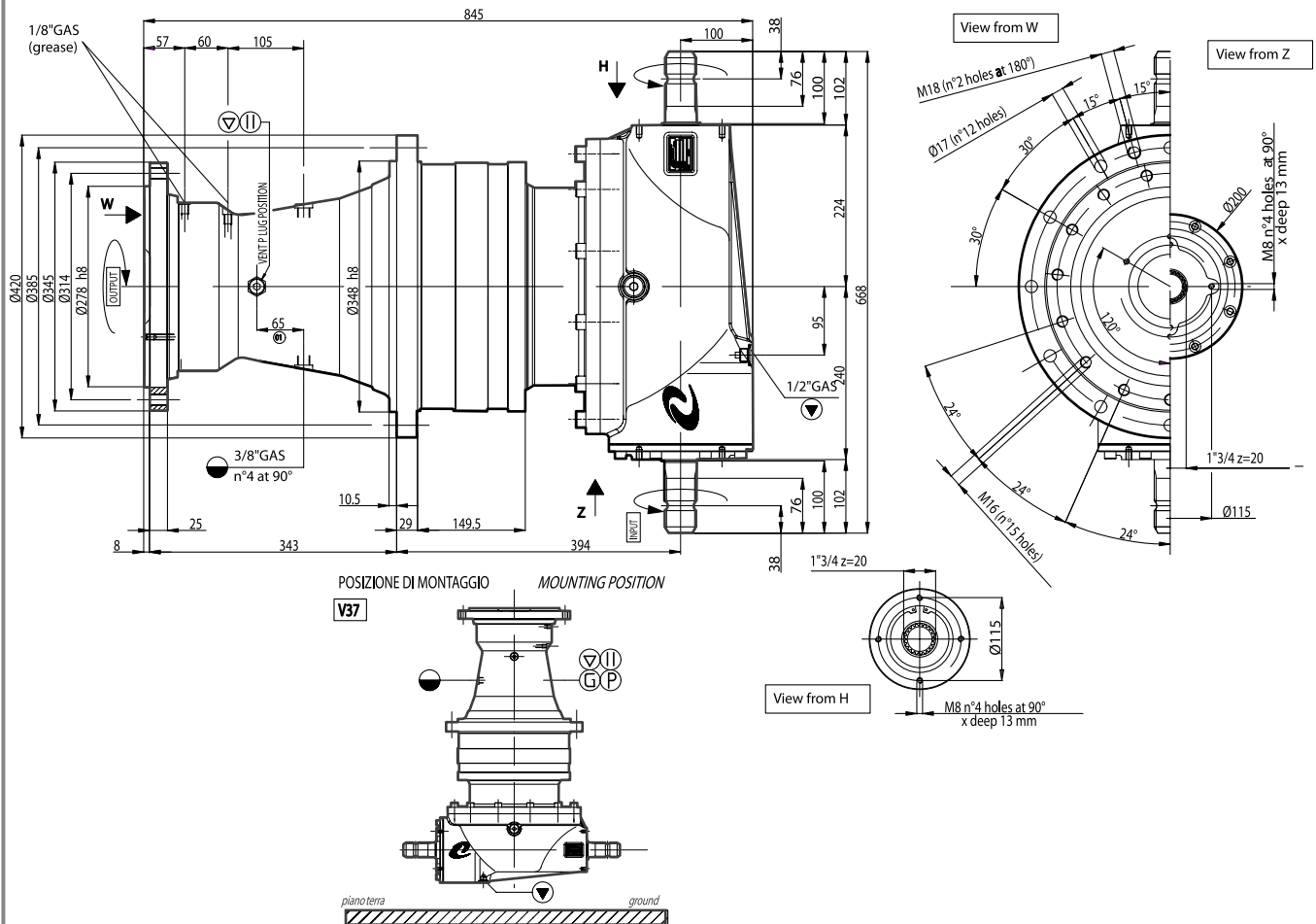
[kg]

270



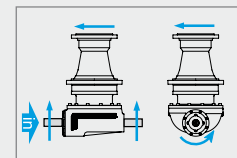
[l]

19.7



	i						std spec	
R 	25.89	540	-	-	2000	185291	std	Z

Versione a 3 stadi.
3 stages version.



PGA-1603



4.06

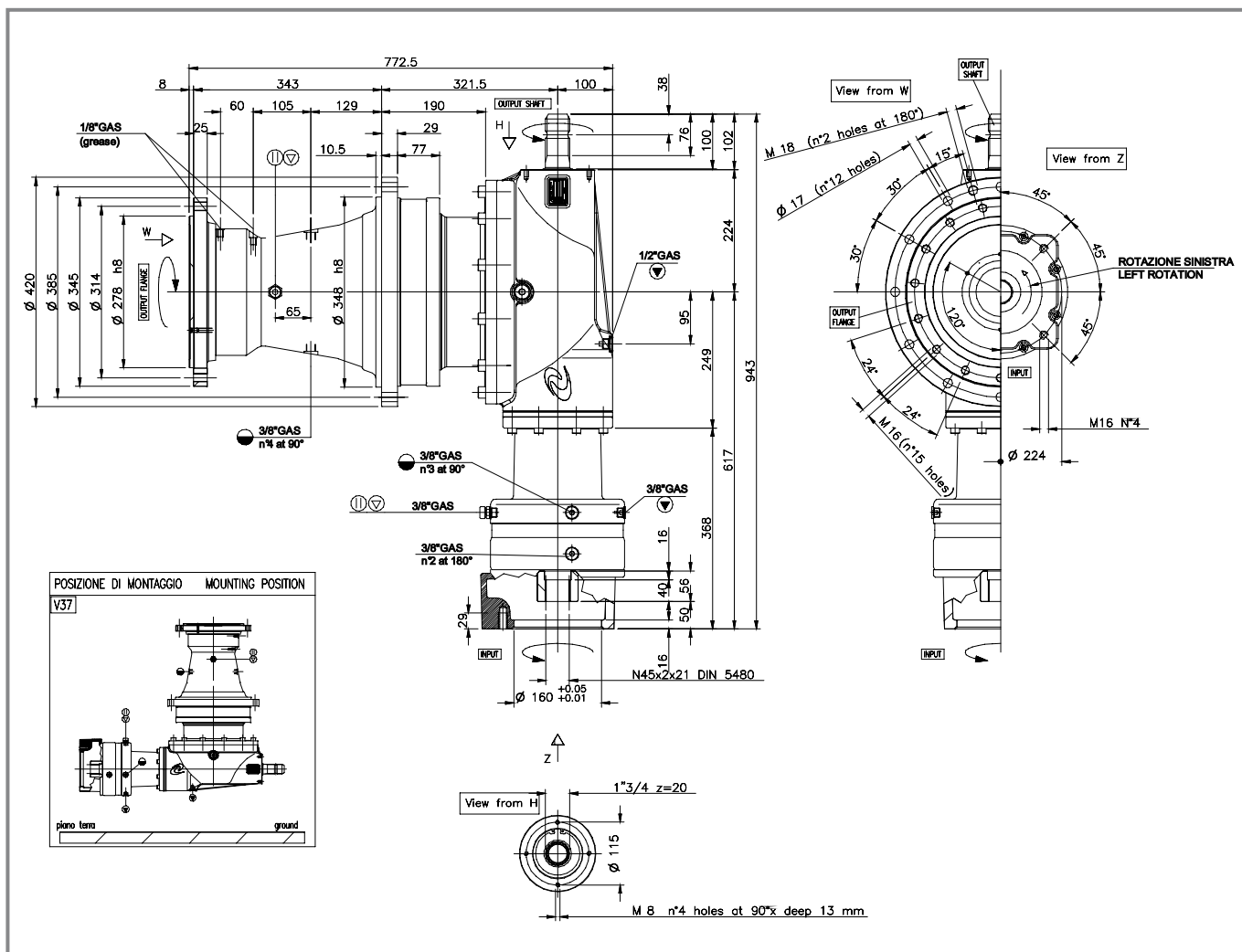


[kg]



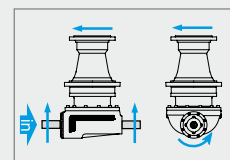
[l]

Versione per attacco motore idraulico in entrata.
Version for input hydraulic motor.

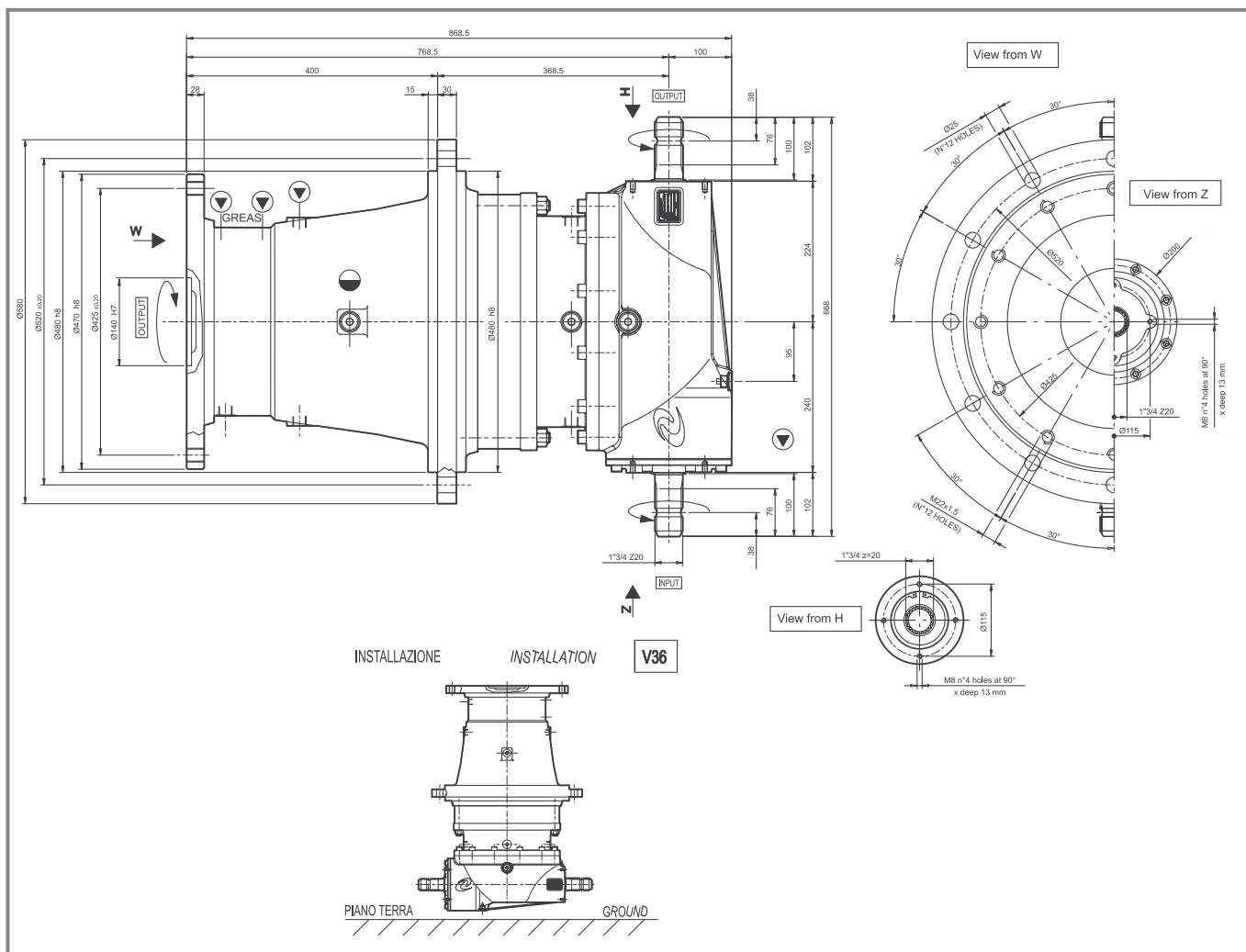


								
		rpm	kW HP	daNm lb.in.	std spec		Input	
R		61	1500 - -	1570 145225	std		Z	V37
		96.8	1500 - -	1500 138750	std		Z	V37

Versione a 3 stadi.
3 stages version.

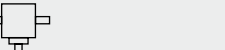


kg [kg]	420	OIL [l]	-
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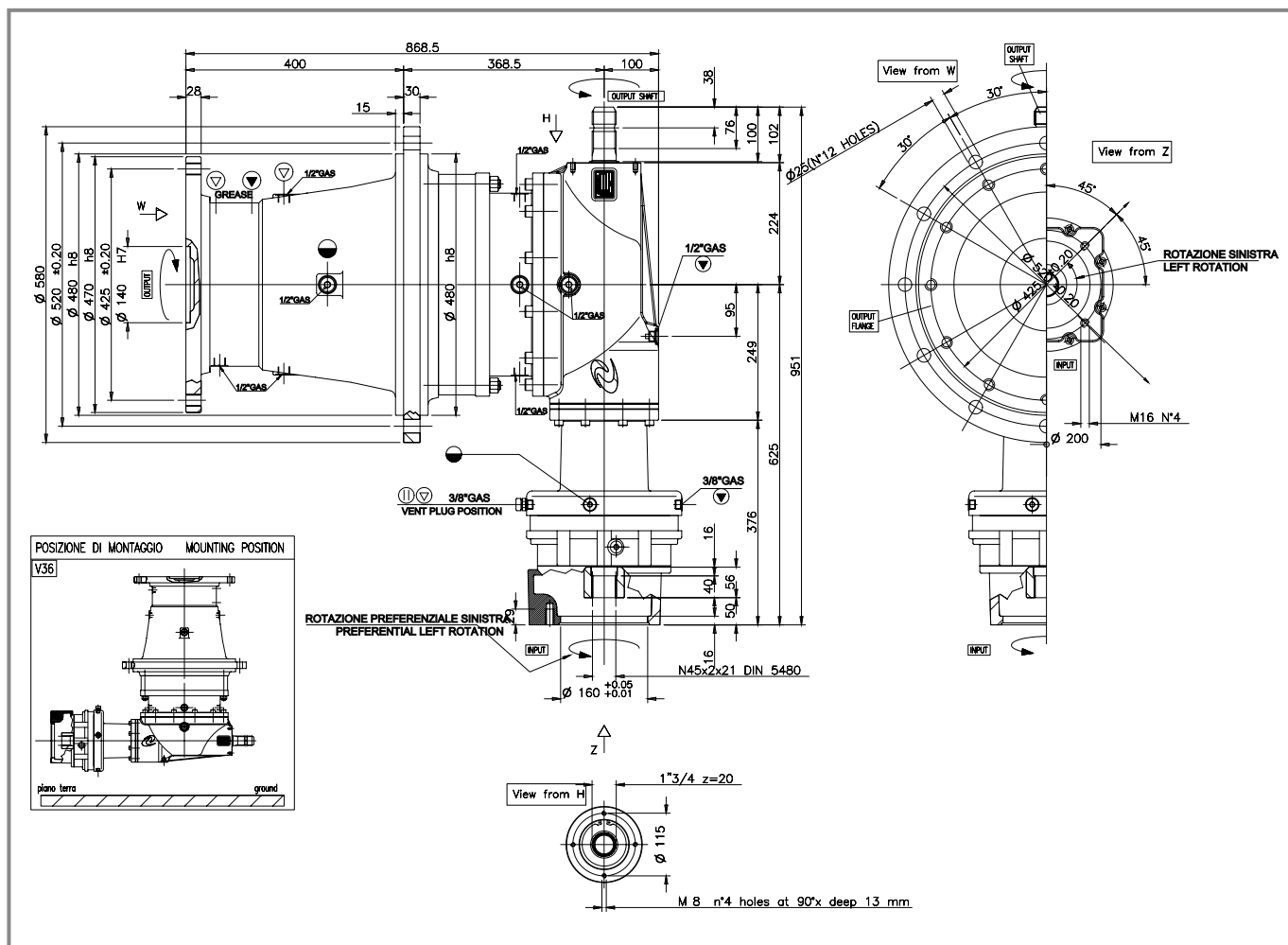
					std spec			
		rpm	kW HP	daNm lb.in.			Input	
R		13.6	-	-	2400	222349	std	Z
		19.6			2200	203820		
V37								



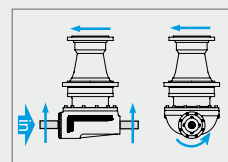




Versione per attacco motore idraulico in entrata.
Version for input hydraulic motor.



							std spec		
		rpm	kW	HP	daNm	lb.in.		Input	
R 	72	1500	-	-	2378	219965	std	Z	V37
	86.65				2000	185000			

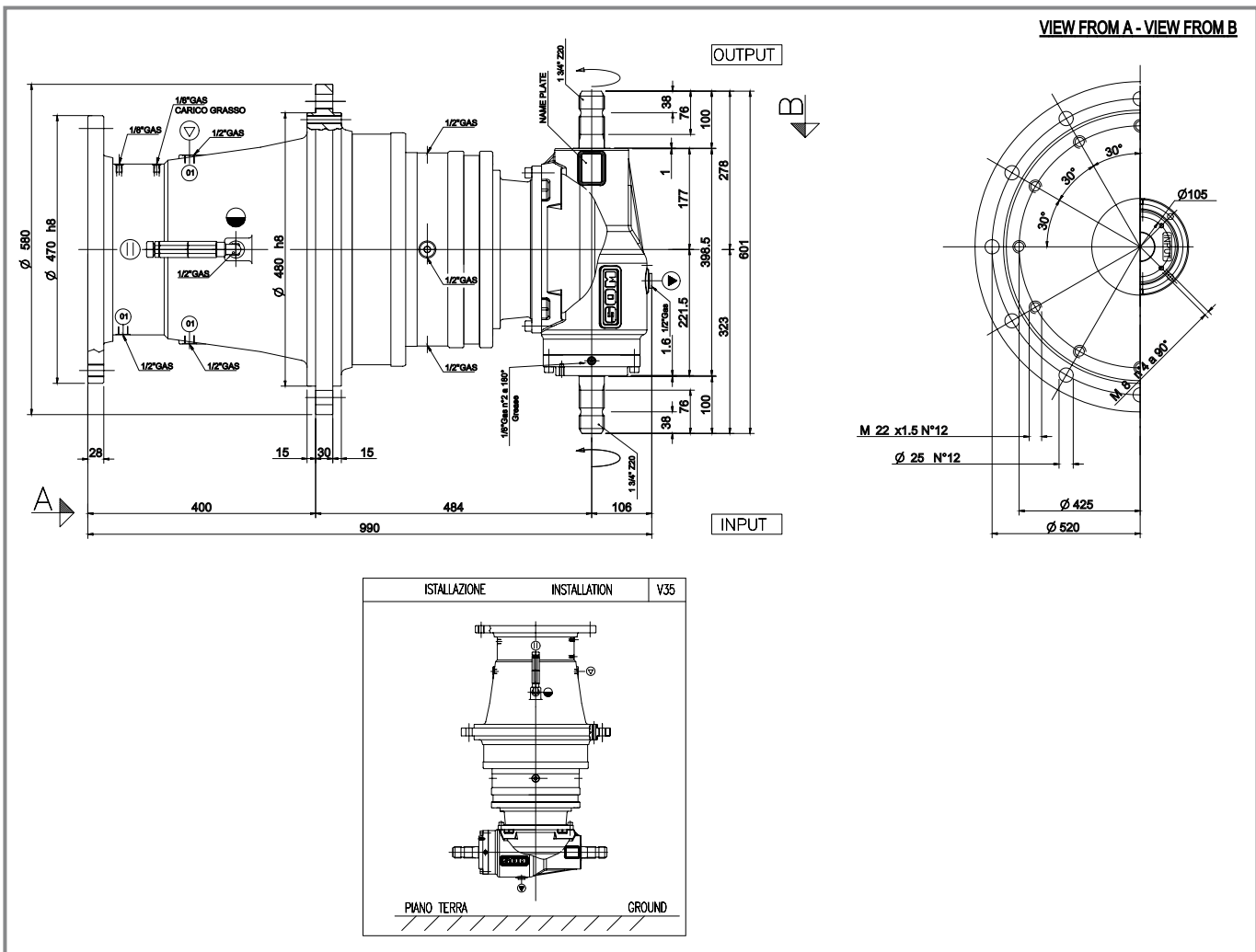


PGA-3003

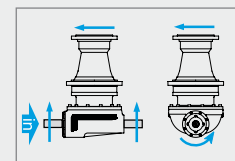


4.06

 [kg]	 [l]	-
--	---	---

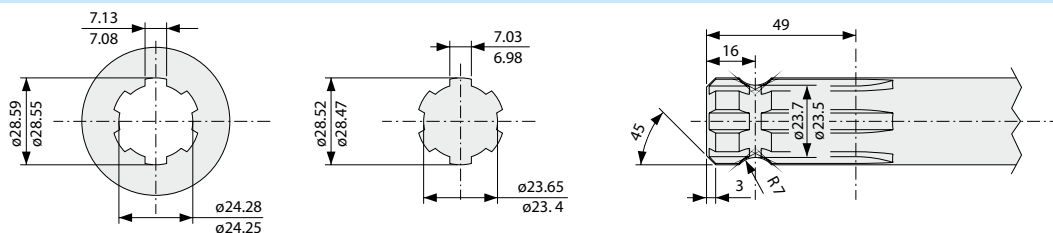


R	i				std spec		Input	V37
		rpm	kW HP	daNm lb.in.				
+	29.4	540	-	3076	284530	std	Z	V37
	35.4							

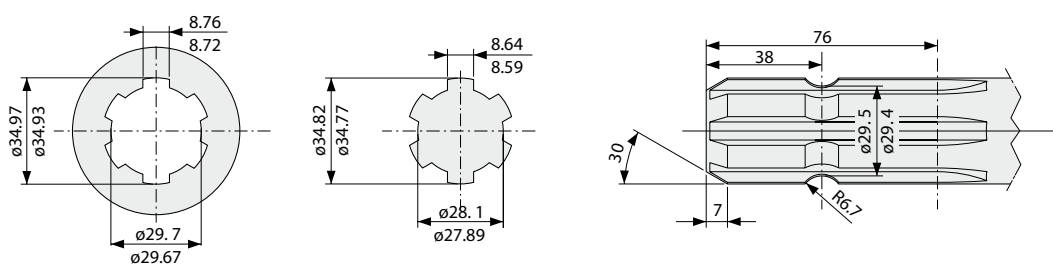


Dimensioni Profili Scanalati / Grooved Splines Dimensions

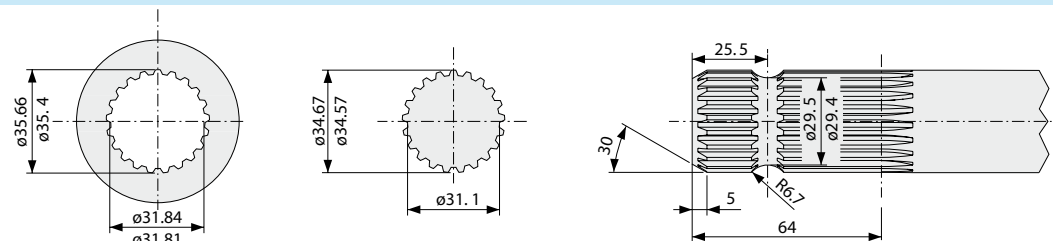
1 1/8" Z6



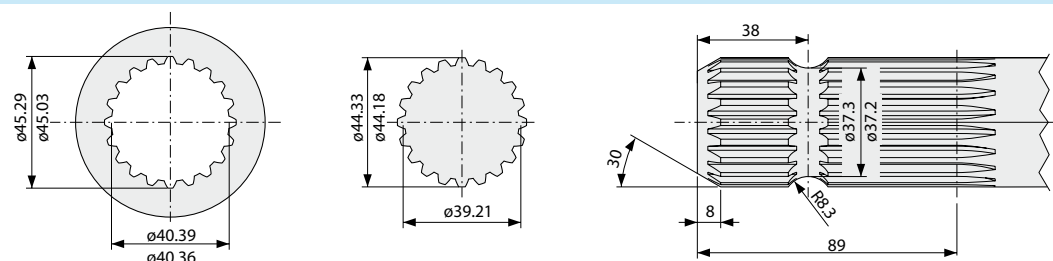
1 3/8" Z6



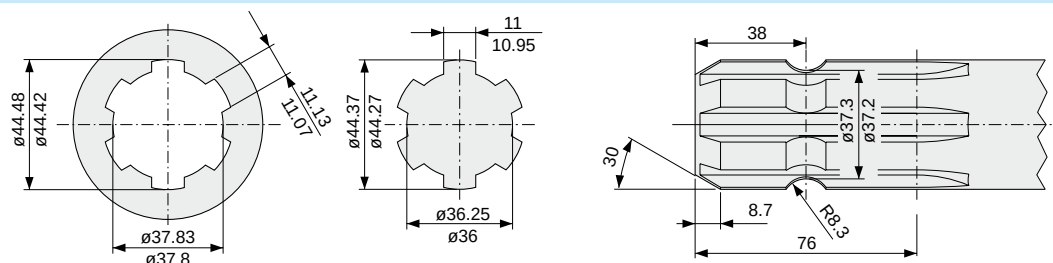
1 3/8" Z21



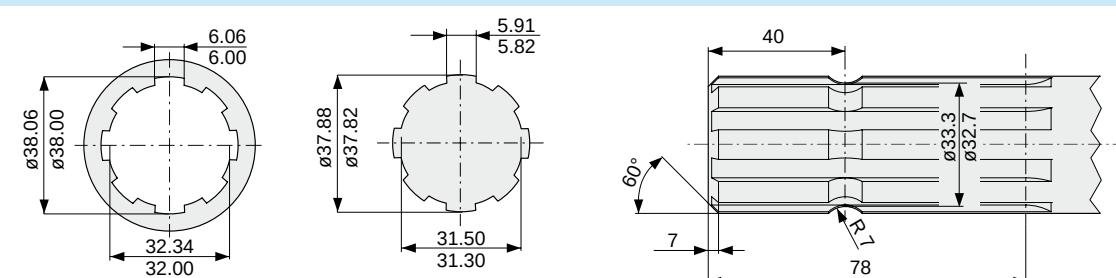
1 3/4" Z20



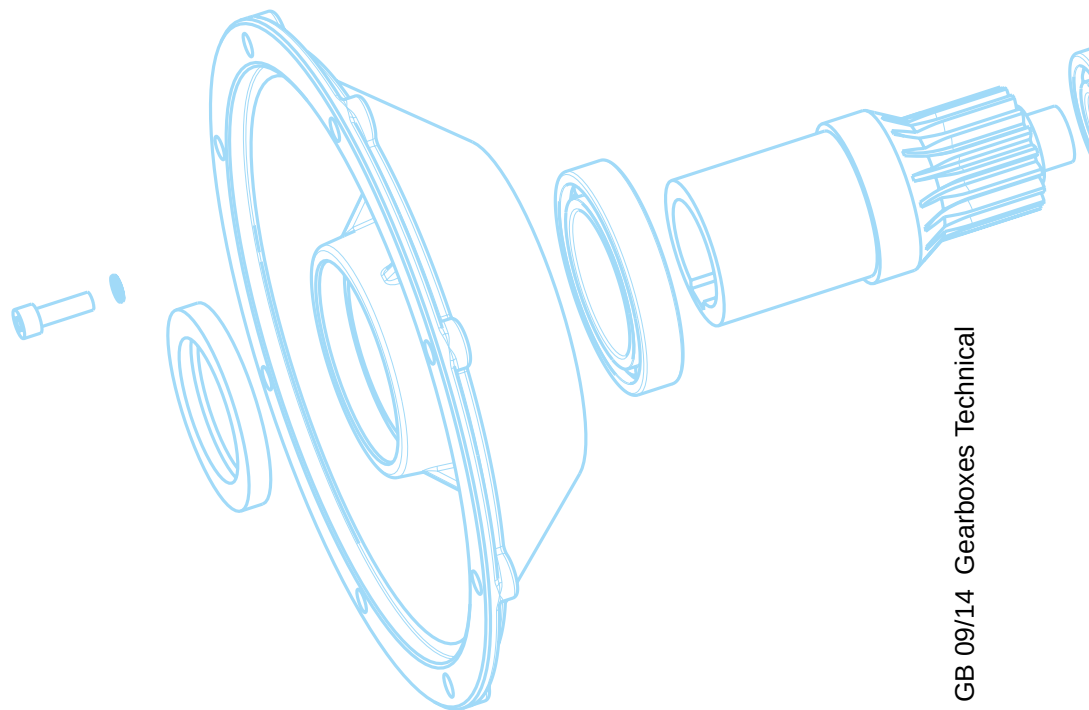
1 3/4" Z6



8 x 32 x 38



[illegible]



CI-ADV GB 09/14 Gearboxes Technical



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