



teste multiple a giunti universali adjustable joint multispindle heads

Le teste multiple a giunti universali sono in produzione dal 1961; nel corso degli anni hanno subito modifiche e aggiornamenti, confermando però la validità dell'idea e lasciando inalterate le caratteristiche salienti:

- possibilità di utilizzo sia in foratura che in maschiatura
- possibilità di posizionamento nello spazio dei gruppi mandrino, vincolato soltanto dalle dimensioni dello stesso e dall'area di lavoro
- adattabilità a tutti i tipi di trapani o a soluzioni speciali
- vantaggiose soprattutto quando è necessario modificare di frequente gli interassi dei fori
- ampia gamma di modelli per le diverse esigenze

Sono disponibili a magazzino le seguenti versioni:

- serie T-TS a base circolare per l'esecuzione di massimo 12 fori; massima capacità di foratura diam. mm 22, interasse minimo mm 15 e massimo mm 350
- serie TL a base lineare per l'esecuzione di massimo 12 fori; massima capacità di foratura diam. mm 22, interasse minimo mm 17 e massimo mm 610
- serie TR a base rettangolare per l'esecuzione di massimo 16 fori; massima capacità di foratura diam. mm 22, interasse minimo mm 32 e massimo mm 395x345
- serie TM-TRM a base circolare e rettangolare per l'esecuzione di massimo 26 fori; grazie alle loro caratteristiche tecniche possono eseguire i più diversi schemi di foratura e maschiatura su macchine con potenza adeguata.

Il catalogo è concegnato per avere un preciso riscontro delle caratteristiche di tutte le teste a giunti universali e delle varie soluzioni possibili con esse; le nuove schede tecniche, gli esempi di attrezzature, gli accessori e le tabelle Vi guideranno nella scelta opportuna.

Qualora il Vs. lavoro non sia eseguibile con questa serie di teste, il Ns. ufficio tecnico Vi fornirà la soluzione alternativa con la serie VH ad interassi variabili o con teste ad assi fissi appositamente disegnate e costruite.

The universal joint multispindle heads have been in production since 1961; over the years they have been modified and updated, without however refuting the goodness of the idea and always leaving major features unaltered:

- possibility of using for both drilling and tapping
- possibility of multi-positioning the spindle units, restricted only by the size of the spindle and of the working area
- suitable for all types of drills or for special solutions
- especially useful when the need arises to frequently change the hole centre distances
- broad range of models for different requirements

The following versions are in stock:

- series T-TS with round base for making up to 12 holes; max drilling capacity dia. 22 mm, minimum centre distance 15 mm, max centre distance 350 mm
- series TL with linear base for making up to 12 holes; max drilling capacity dia. 22 mm, minimum centre distance 17 mm, max centre distance 610 mm
- series TR with rectangular base for making up to 16 holes; max drilling capacity dia. 22 mm, minimum centre distance 32 mm, max centre distance 395x345 mm
- series TM-TRM with round and rectangular base for making up to 26 holes; thanks to their technical features, they are able to execute a series of different drilling and tapping patterns on machines of adequate power.

The catalogue is compiled so as to provide a precise reference for all the adjustable joint heads and the various possible solutions these offer. Thanks to the new technical sheets, equipment examples, accessories and charts, you will find making the right choice much easier.

In the event of this series of heads not providing the solution for your job, our technical department can provide alternative solutions with the variable centre distance VH series or fixed-axis heads, specially designed and made for you.



T2	9-2
T4	9-3
T7	9-4
T10	9-5
T12/TS12	9-6
T15/TS15	9-7
T18/TS18	9-8
T22/TS22	9-9
TL20/4	9-10
TL20/6	9-11
TL20/8	9-12
TL40/12	9-13
TL40/16	9-14
TL40/22	9-15
TL60/12	9-16
TL60/16	9-17
TL60/22	9-18
TR2/12	9-19
TR2/16	9-20
TR5/12	9-21
TR5/16	9-22
TR8/22	9-23
TM400	9-24
TM500	9-25
TRM43	9-26
TRM73	9-27
TRM43-2P	9-28
TRM73-2P	9-29
Mandrini per TM-TRM/TM-TRM spindles ...	9-30
Attrezzi/Equipment	9-32
Manicotto di collegamento/Connection collar ..	9-34
Accessori/Accessories	11-1

FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

TC-TC3
T

MT-TC-TC3
Accessori
Accessories

Appendice tecnica
Technical supplement





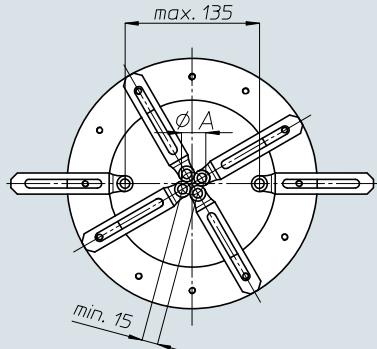
T2

Codice testa
Head code

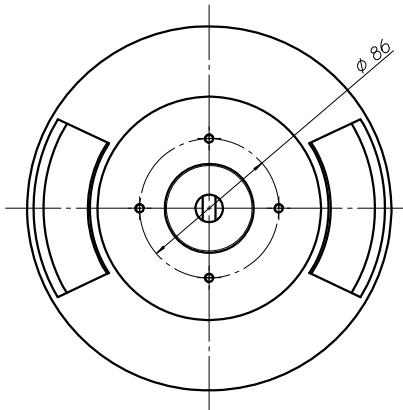
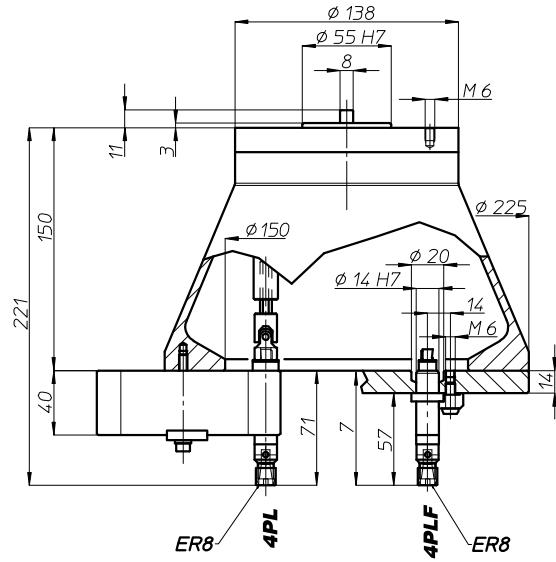
Codice mandrino *Spindle code*

	N° prese di moto <i>Nr. spindle drives</i>	08
	Rapporto <i>Ratio</i>	1-1
	Capacità di foratura <i>Drilling capacity</i>	4
	Maschiatura <i>Tapping</i>	M4
	Attacco utensile <i>Type of spindle</i>	ER8
	Peso gruppo testa <i>Head weight</i>	Kg 3,25
	Peso gruppo mandrino <i>Spindle-set weight</i>	Kg 0,3

area di lavoro
working area



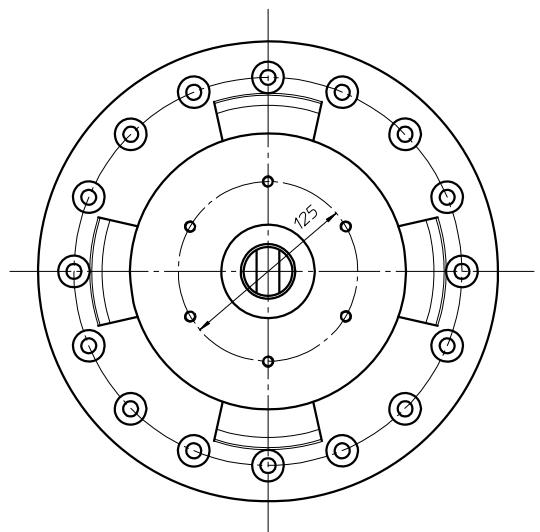
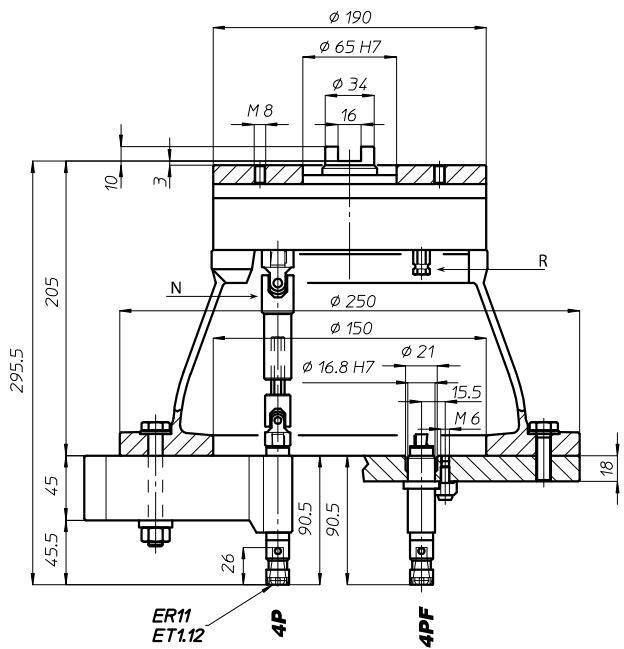
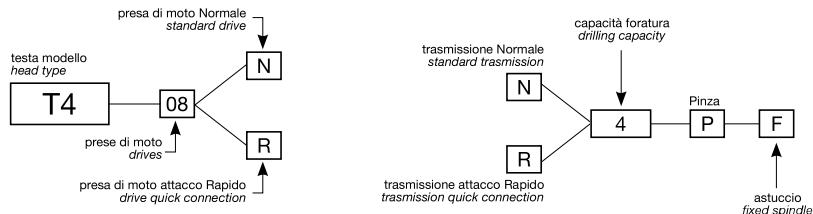
ϕ A	n° mandrini n° spindles
15	2
17,5	3
21,5	4
26	5
30	6
35	7
39,5	8



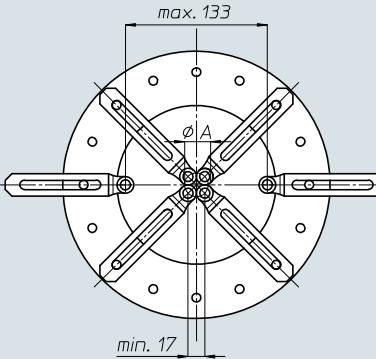
T4

Codice testa
Head code

Codice mandrino
Spindle code



<i>ø A</i>	n° mandrini n° spindles
20	3
24,5	4
29,5	5
34,5	6
39,5	7
45	8



area di lavoro
working area

E

BAH

TA.CP

TA

MO

5

1

T

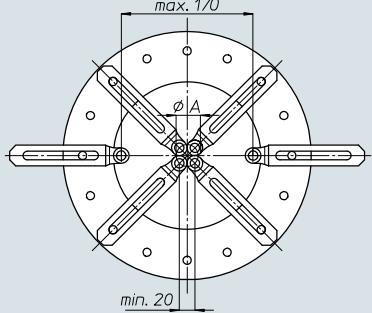
3

accessories

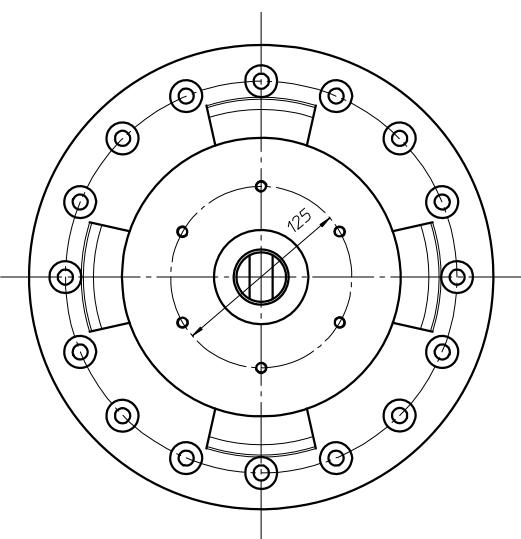
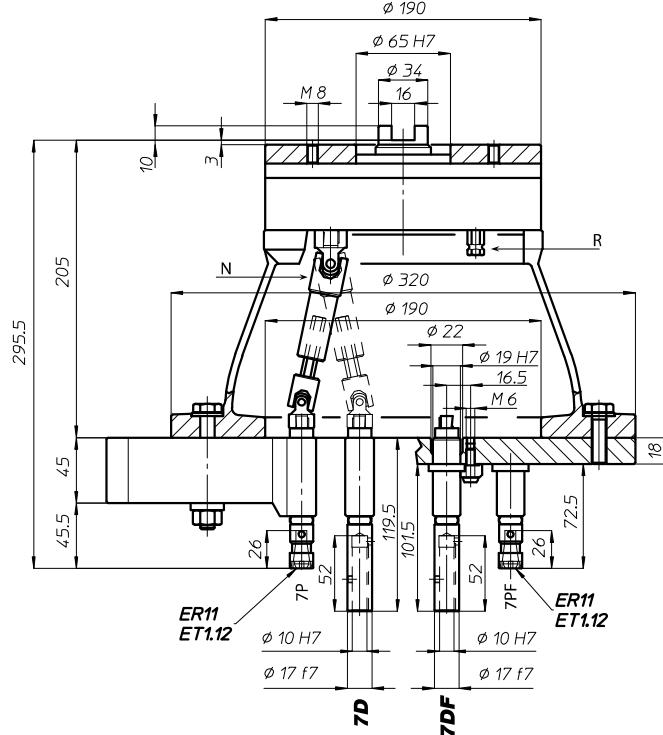
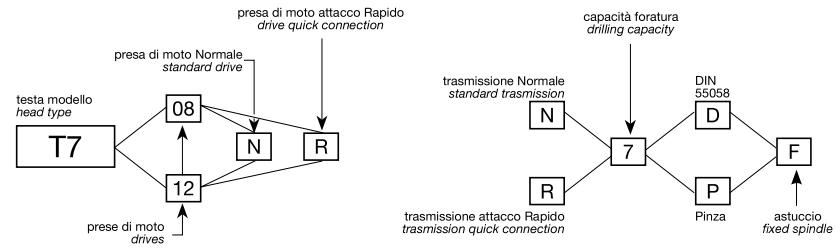
Appendice tecnica
Technical supplement

	N° prese di moto Nr. spindle drives	08-12
	Rapporto Ratio	1-1
	Capacità di foratura <i>Drilling capacity</i> acciaio R=500 N/mm ² ghisa: GG25	6 7
	Maschiatura <i>Tapping</i>	M5
	Attacco utensile <i>Type of spindle</i> D P	DIN 55058 Ø10 ER11
	Peso gruppo testa <i>Head weight</i>	Kg 10
	Peso gruppo mandrino <i>Spindle-set weight</i>	Kg 1,1

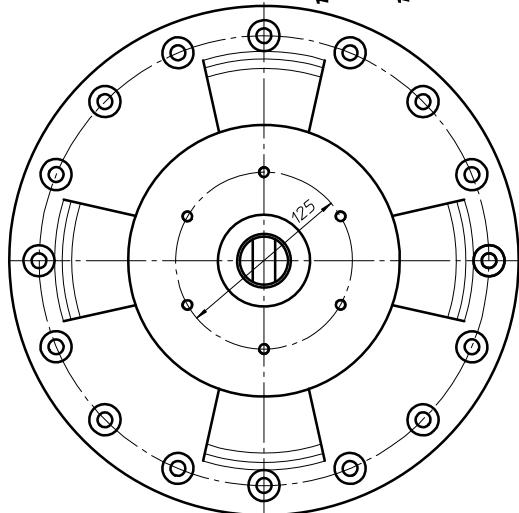
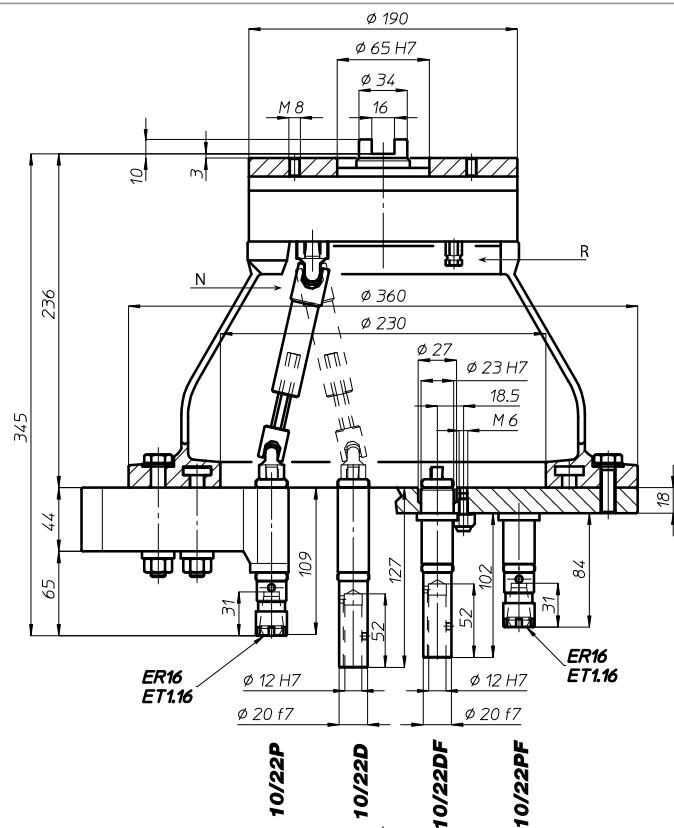
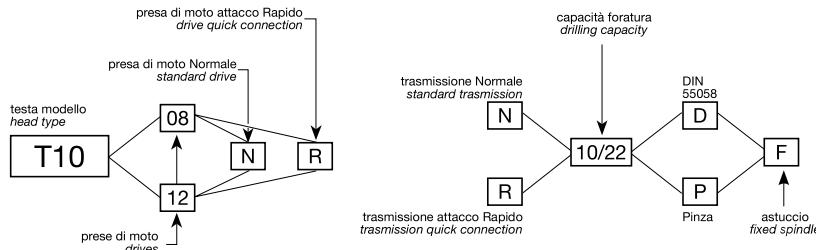
area di lavoro *working area*



ø A	n° mandrini n° spindles
23,5	3
28,5	4
34,5	5
40,5	6
46,5	7
52,5	8
59	9
65,5	10
71,5	11
77,5	12

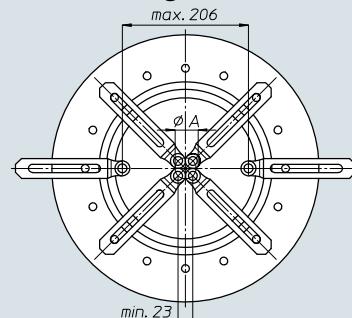


T10

Codice testa
Head codeCodice mandrino
Spindle code

	N° prese di moto Nr. spindle drives	08-12
	Rapporto Ratio	1-1
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	8-10
	Maschiatura Tapping	M6
	Attacco utensile Type of spindle DIN 55058 Ø12 ER16	D P
	Peso gruppo testa Head weight	Kg 12
	Peso gruppo mandrino Spindle-set weight	Kg 1,5

area di lavoro working area



ø A	n° mandrini n° spindles
27	3
33	4
39,5	5
46,5	6
53,5	7
60,5	8
67,5	9
75	10
82	11
89,5	12

FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3
Accessori
Accessories

Appendice tecnica
Technical supplement

FH
BAH

TA.CP

TA

MO

HT

VH

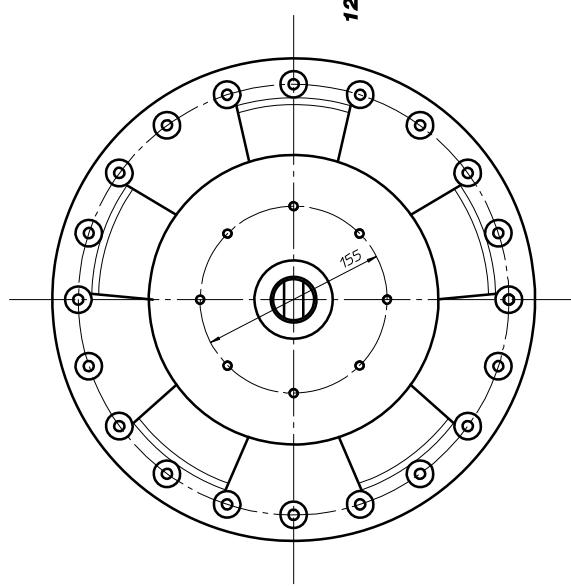
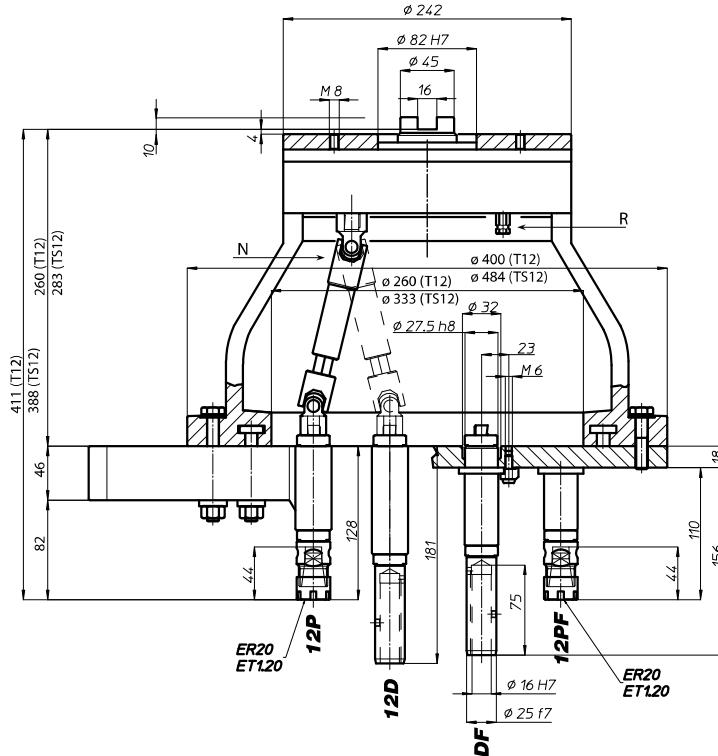
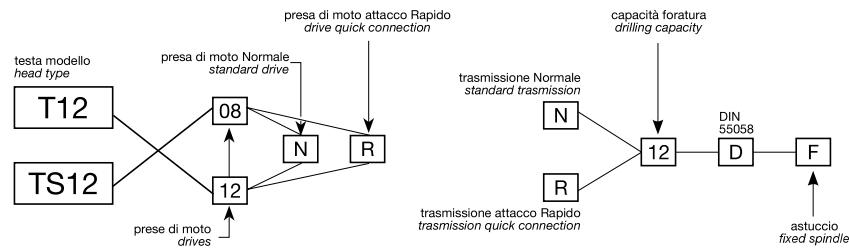
TSI/TSX

T

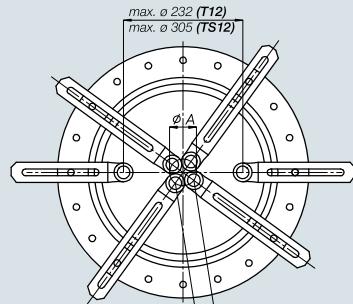
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

T12- TS12

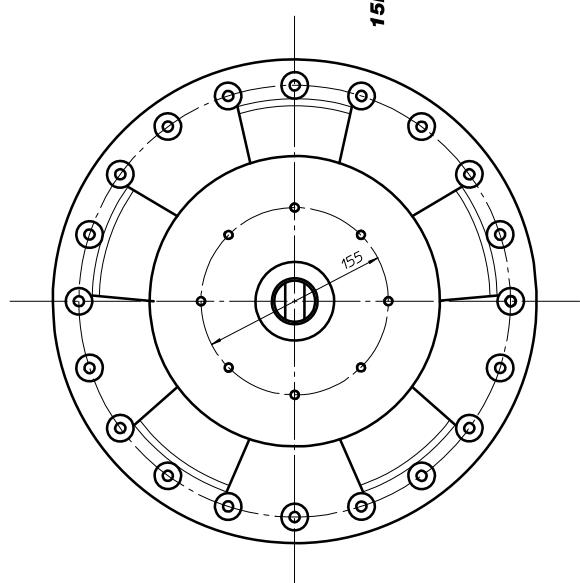
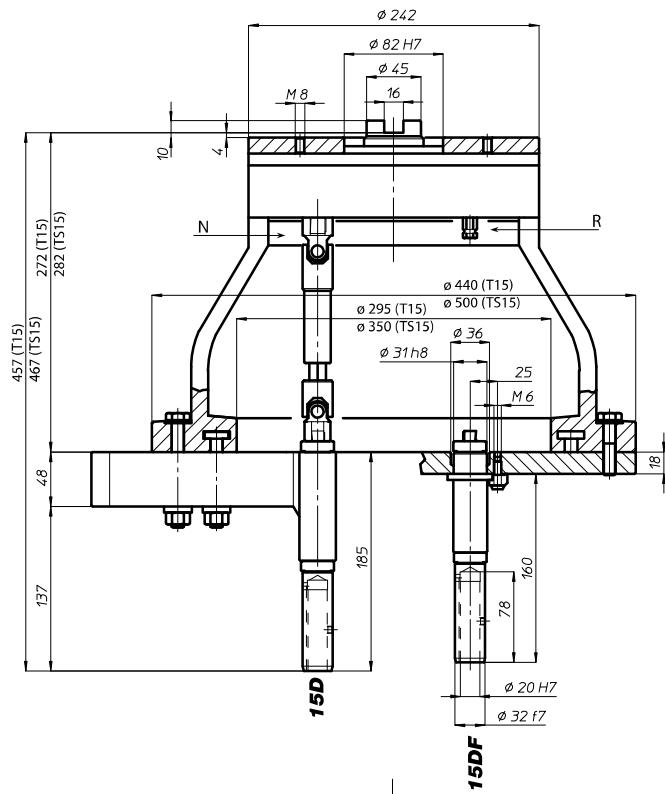
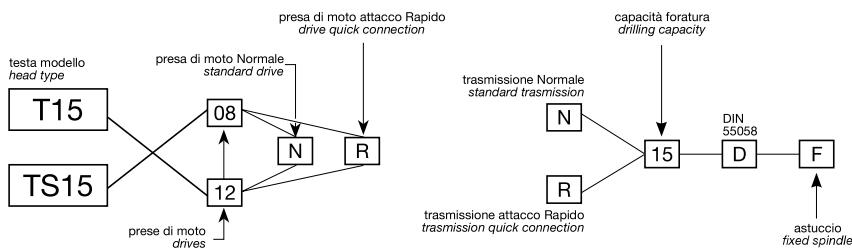
Codice testa
Head codeCodice mandrino
Spindle code

area di lavoro working area



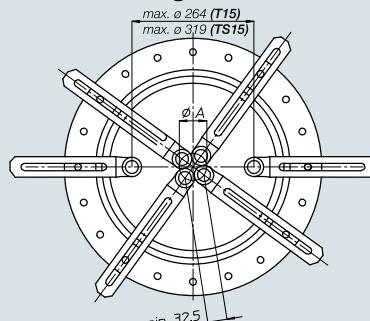
Ø A	n° mandrini n° spindles
33	3
40	4
48	5
56,5	6
65	7
74	8
82,5	9
91	10
100	11
108,5	12

T15-TS15

Codice testa
Head codeCodice mandrino
Spindle code

	N° prese di moto Nr. spindle drives	08-12
	Rapporto Ratio	1-1
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	13 15
	Maschiatura Tapping	M12
	Attacco utensile Type of spindle	DIN 55058 Ø20
	Peso gruppo testa Head weight T15: Kg 21,5 TS15: Kg 24,5	Kg 2,6

area di lavoro working area



ø A	n° mandrini n° spindles
38	3
46,5	4
56	5
65,5	6
75,5	7
85,5	8
95,5	9
105,5	10
116	11
126	12

FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

T18-TS18

Codice testa
Head codeCodice mandrino
Spindle code

	N° prese di moto Nr. spindle drives	08
--	--	----

	Rapporto Ratio	1-1
--	-------------------	-----

	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	16
		18

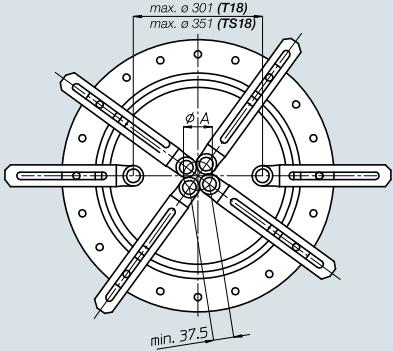
	Maschiatura Tapping	M14
--	------------------------	-----

	Attacco utensile Type of spindle D	DIN 55058 Ø25
--	--	---------------

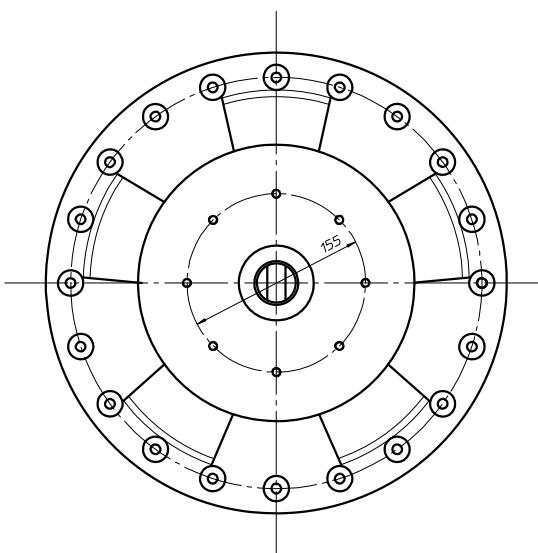
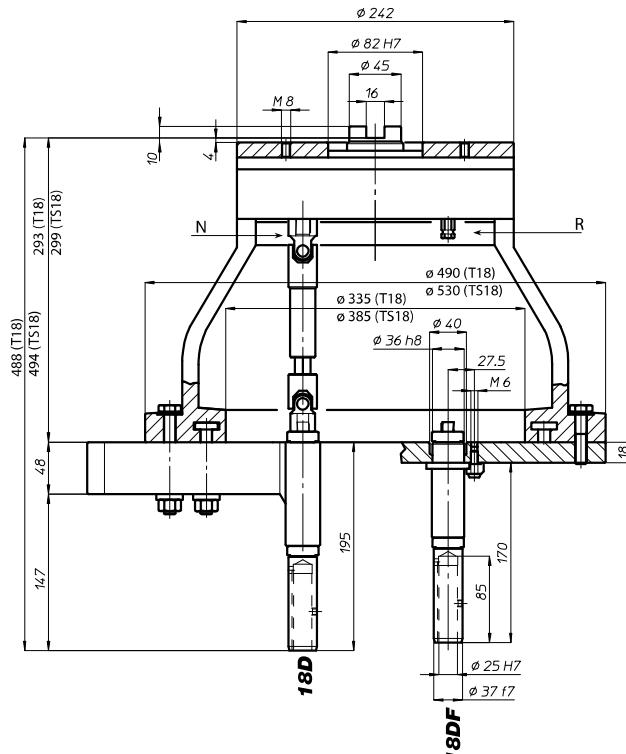
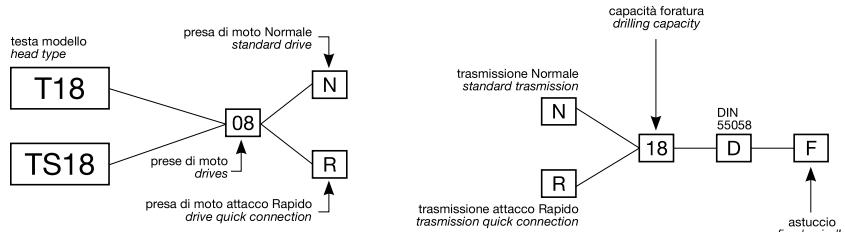
	Peso gruppo testa Head weight T18: Kg 25 TS18: Kg 26,5	
--	---	--

	Peso gruppo mandrino Spindle-set weight	Kg 3,3
--	--	--------

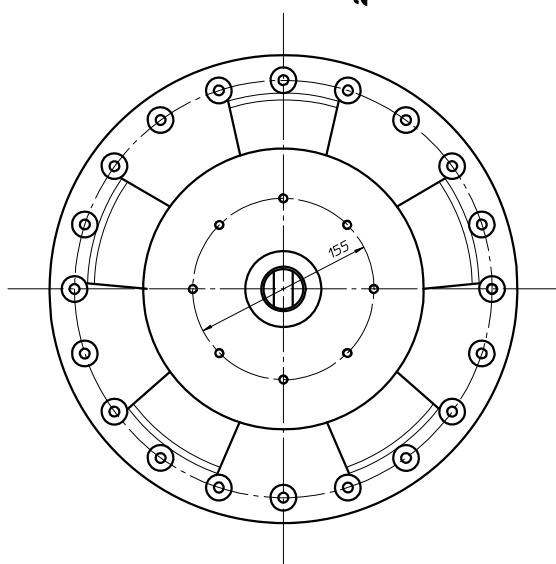
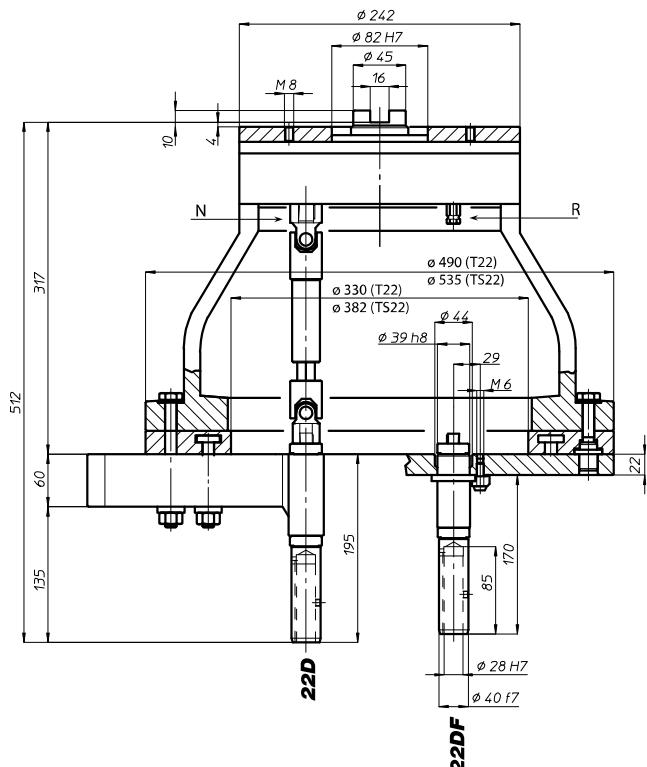
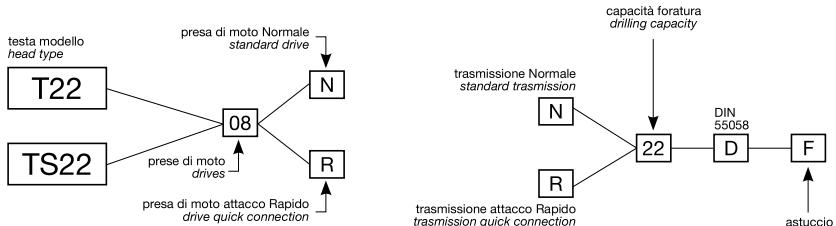
area di lavoro working area



ø A	n° mandrini n° spindles
44	3
53,5	4
64,5	5
75,5	6
87	7
98,5	8



T22-TS22

Codice testa
Head codeCodice mandrino
Spindle code

FH

BAH

TA.CP

TA

MO

HT

VH

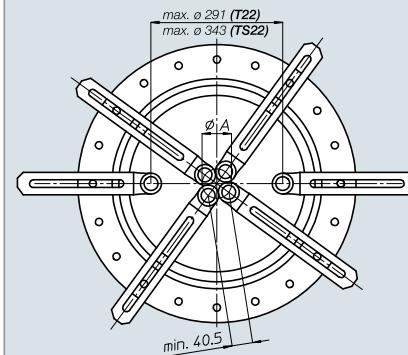
TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

	N° prese di moto Nr. spindle drives	08
	Rapporto Ratio	1-1
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	20 22
	Maschiatura Tapping	M16
	Attacco utensile Type of spindle	D DIN 55058 Ø28
	Peso gruppo testa Head weight T22: Kg 38,5 TS22: Kg 41	Kg 5,5

area di lavoro
working area

ø A	n° mandrini n° spindles
47,5	3
58	4
69,5	5
81,5	6
94	7
106,5	8

TL20/4

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplementCodice testa
Head codeCodice mandrino
Spindle code

	N° prese di moto Nr. spindle drives	08
--	--	----

	Rapporto Ratio	1-1
--	-------------------	-----

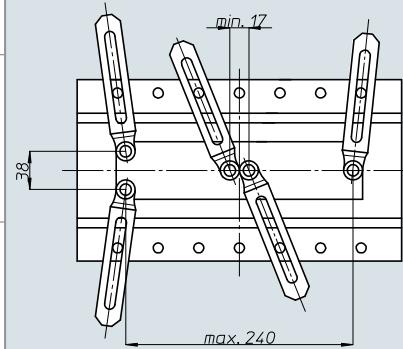
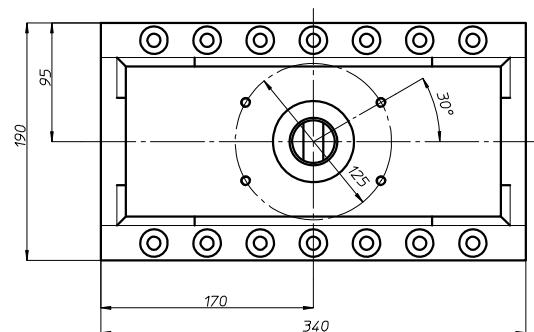
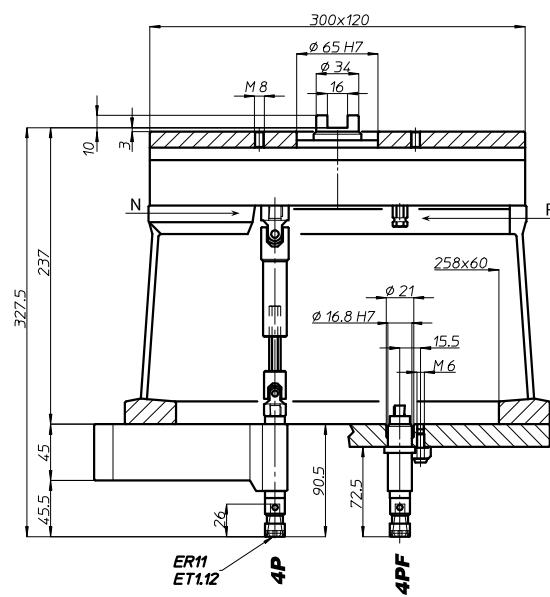
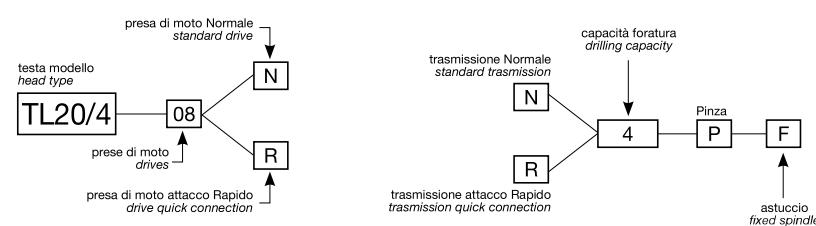
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	4
		5

	Maschiatura Tapping	M4
--	------------------------	----

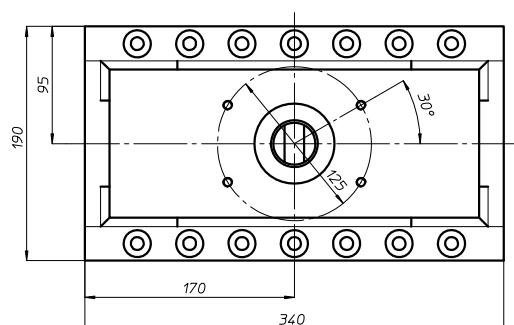
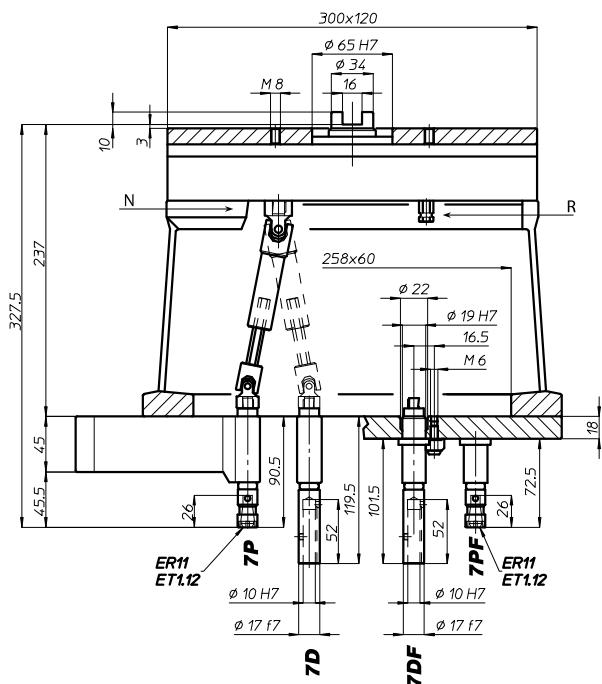
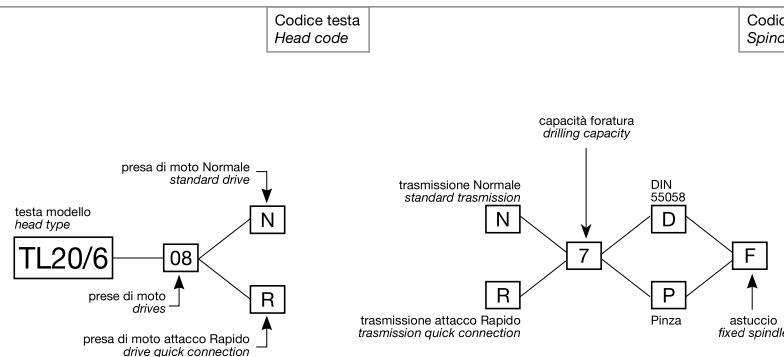
	Attacco utensile Type of spindle P	ER11
--	--	------

	Peso gruppo testa Head weight	Kg 13,5
--	----------------------------------	---------

	Peso gruppo mandrino Spindle-set weight	Kg 1
--	--	------

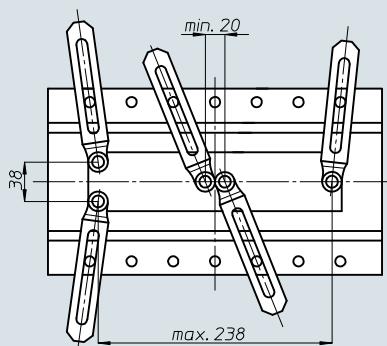
area di lavoro
working area

TL20/6



	N° prese di moto <i>Nr. spindle drives</i>	08
	Rapporto <i>Ratio</i>	1-1
	Capacità di foratura <i>Drilling capacity</i> acciaio R=500 N/mm ² ghisa: GG25	6 7
	Maschiatura <i>Tapping</i>	M5
	Attacco utensile <i>Type of spindle</i> D P	DIN 55058 Ø10 ER11
	Peso gruppo testa <i>Head weight</i>	Kg 13,5
	Peso gruppo mandrino <i>Spindle-set weight</i>	Kg 1

area di lavoro
working area



TL20/8

FH

BAH

TA.CP

TA

MO

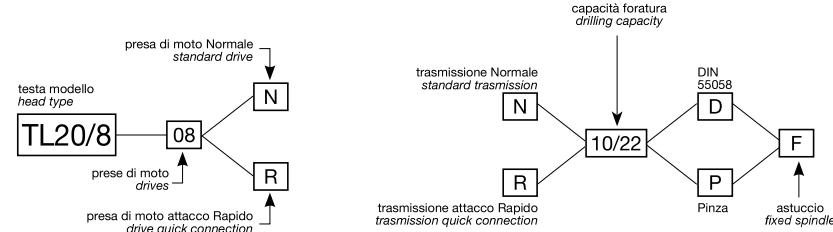
HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplementCodice testa
Head codeCodice mandrino
Spindle code

	N° prese di moto Nr. spindle drives	08
--	--	----

	Rapporto Ratio	1-1
--	-------------------	-----

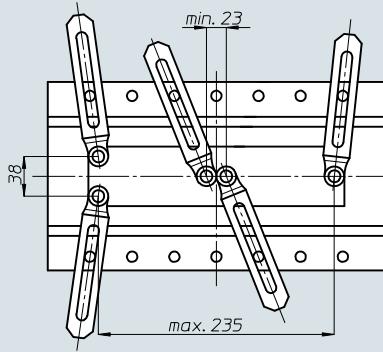
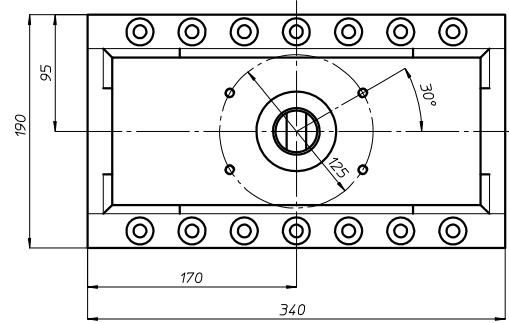
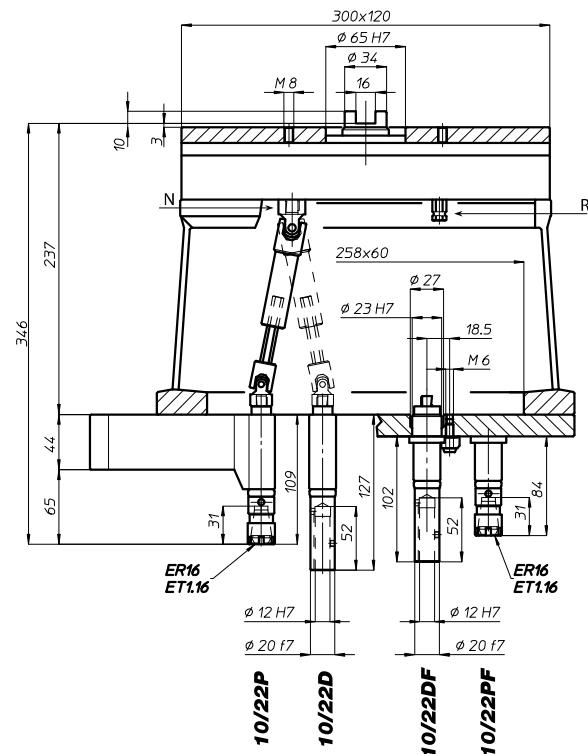
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	8
		10

	Maschiatura Tapping	M6
--	------------------------	----

	Attacco utensile Type of spindle D P	DIN 55058 Ø12 ER16
--	---	-----------------------

	Peso gruppo testa Head weight	Kg 13,5
--	----------------------------------	---------

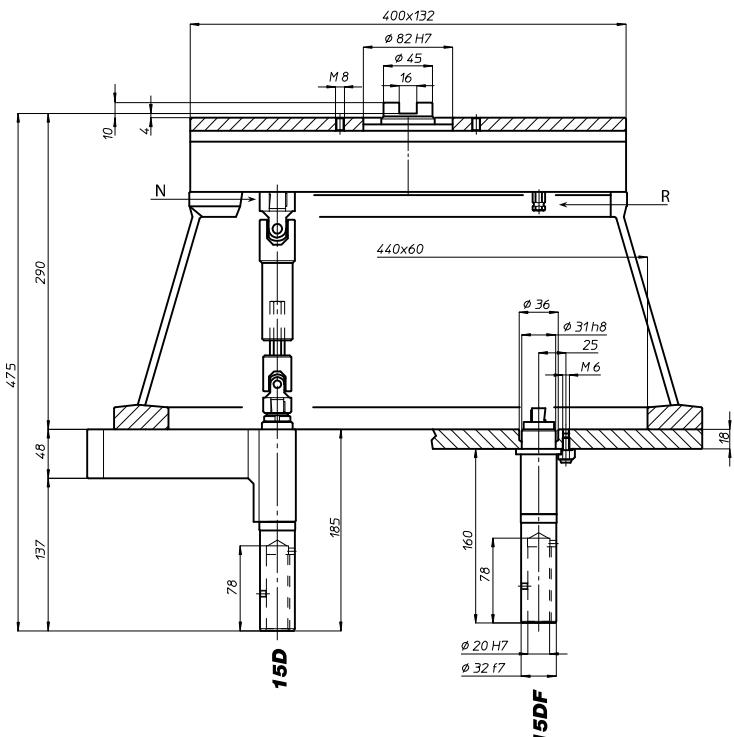
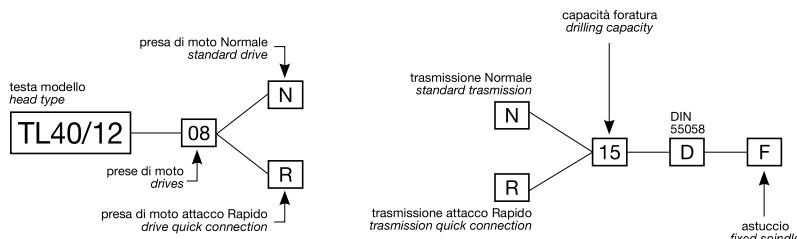
	Peso gruppo mandrino Spindle-set weight	Kg 1,5
--	--	--------

area di lavoro
working area

TL40/12

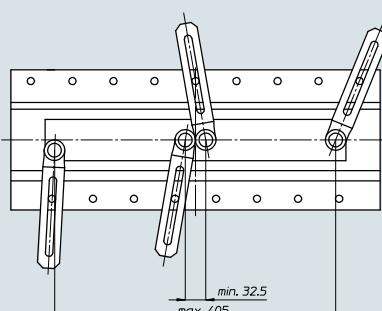
Codice testa
Head code

Codice mandrino
Spindle code



N° prese di moto Nr. spindle drives	08
Rapporto Ratio	1-1
Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	13 15
Maschiatura Tapping	M12
Attacco utensile Type of spindle D DIN 55058 Ø20	
Peso gruppo testa Head weight	Kg 25
Peso gruppo mandrino Spindle-set weight	Kg 2,5

area di lavoro
working area



FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

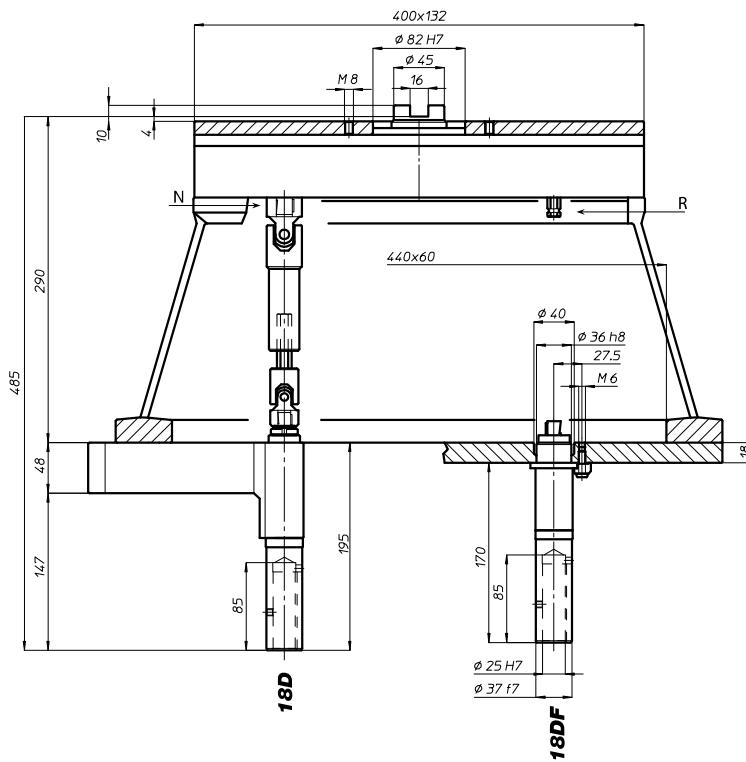


Codice testa / Head code

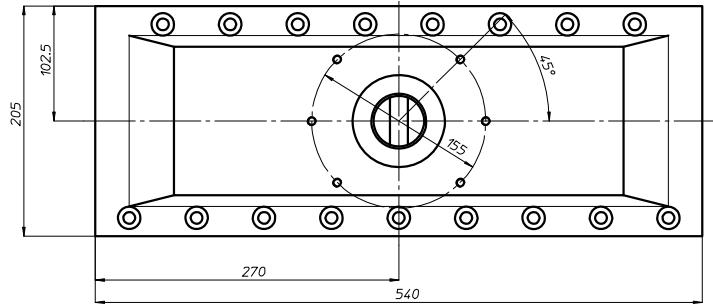
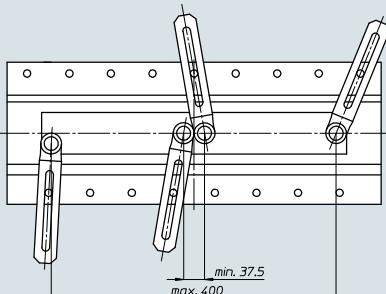
Codice mandrino / Spindle code

Diagram illustrating the connection between Head code and Spindle code:

- Head type: TL40/16
- Standard drive (N): connected from Head code to Junction 08, then to Junction N.
- Quick connection (R): connected from Head code to Junction 08, then to Junction R.
- Standard transmission (N): connected from Spindle code to Junction 18, then to Junction N.
- Quick connection transmission (R): connected from Spindle code to Junction 18, then to Junction R.
- Fixed spindle (F): connected from Spindle code to Junction 18, then to Junction F.
- Drilling capacity (capacità foratura): connected from Spindle code directly to Junction F.



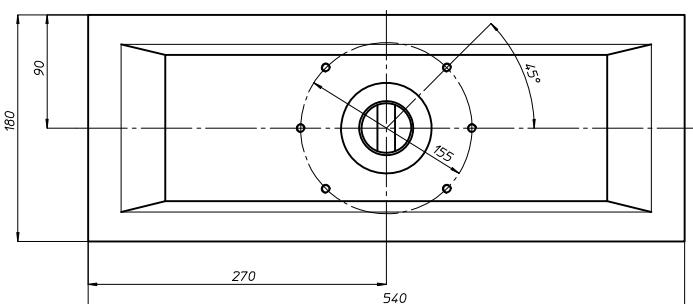
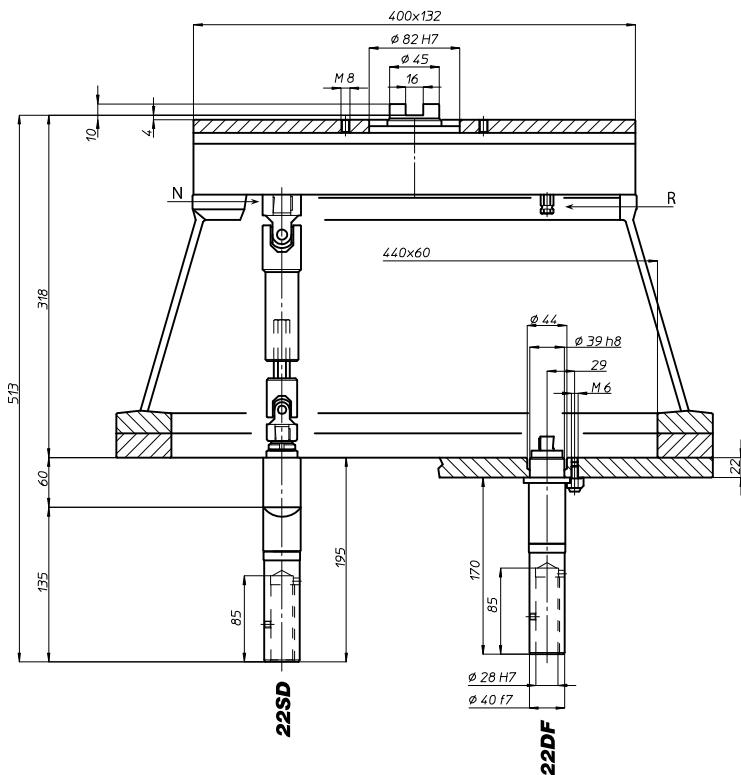
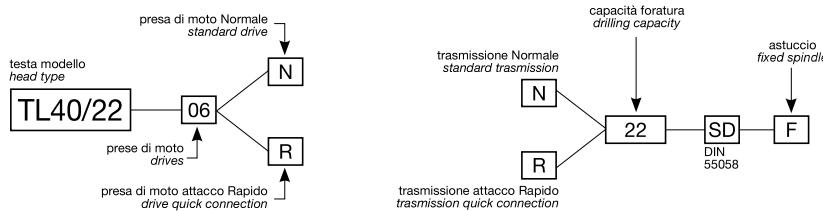
area di lavoro
working area



TL40/22

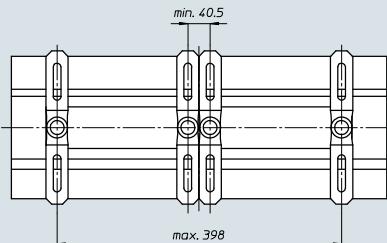
Codice testa
Head code

Codice mandrino
Spindle code



N° prese di moto Nr. spindle drives	06
Rapporto Ratio	1-1
Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	20 22
Maschiatura Tapping	M16
Attacco utensile Type of spindle D DIN 55058 Ø 28	
Peso gruppo testa Head weight	Kg 37
Peso gruppo mandrino Spindle-set weight	Kg 5

area di lavoro
working area



MT-TC-TC3 T TSI/TSX VH HT MO TA TA.CP BAH FH

T

MT-TC-TC3 Accessories

Appendice tecnica
Technical supplement



Codice testa
Head code

Codice mandrino
Spindle code

preso di moto attacco Rapido
drive quick connection

preso di moto Normale
standard drive

testa modello
head type

TL60/12

12

08

N

R

prese di moto
drives

trasmissione Normale
standard transmission

trasmissione attacco Rapido
transmission quick connection

capacità foratura
drilling capacity

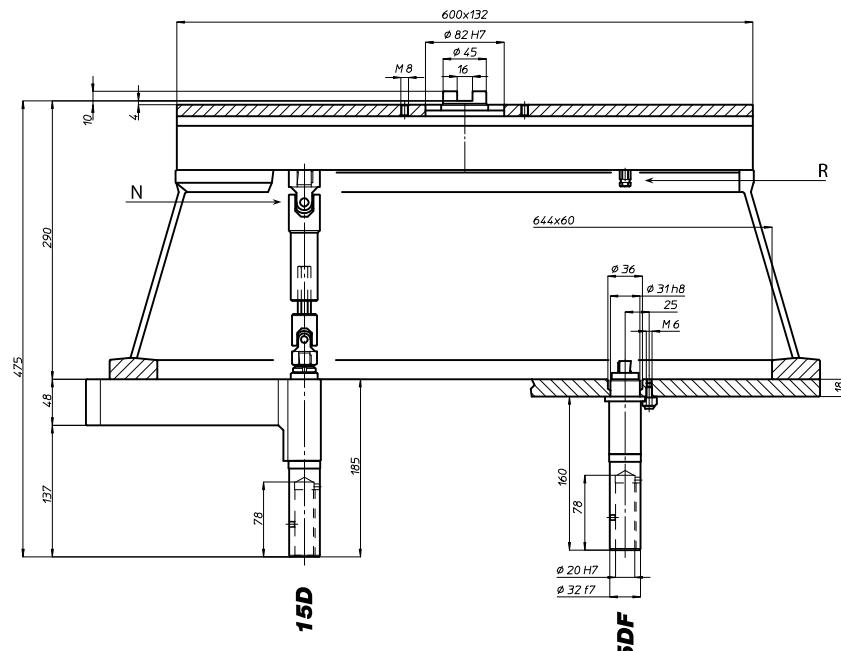
DIN 55058

D

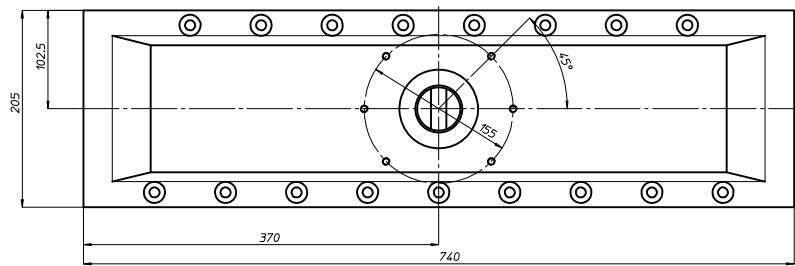
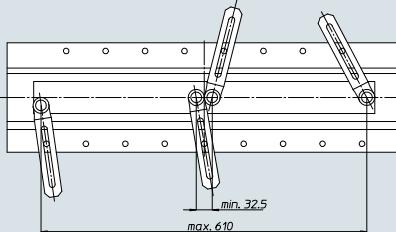
F

R

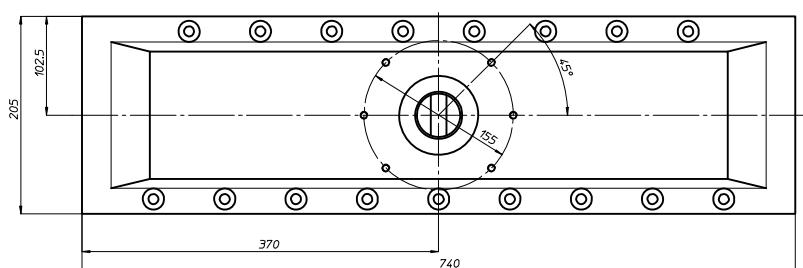
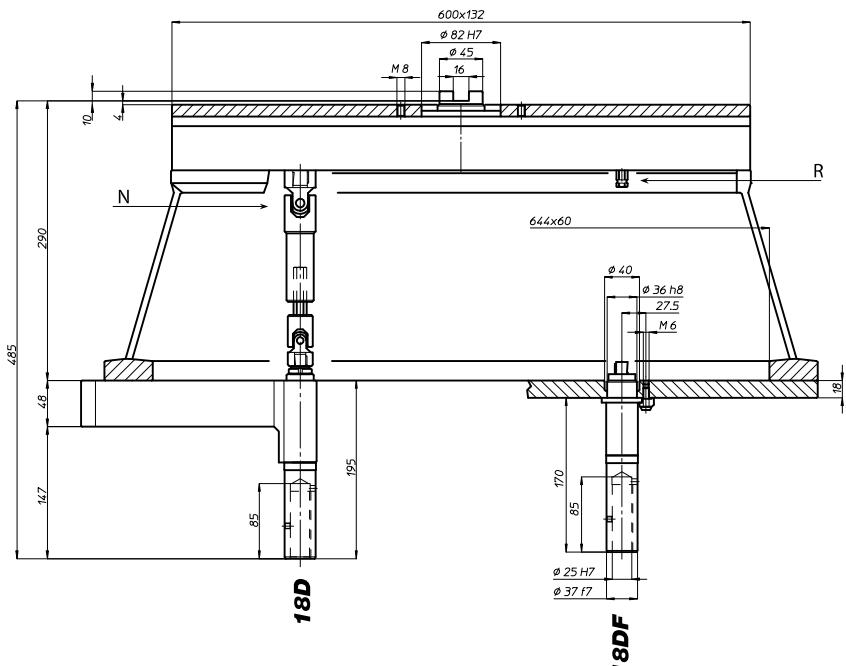
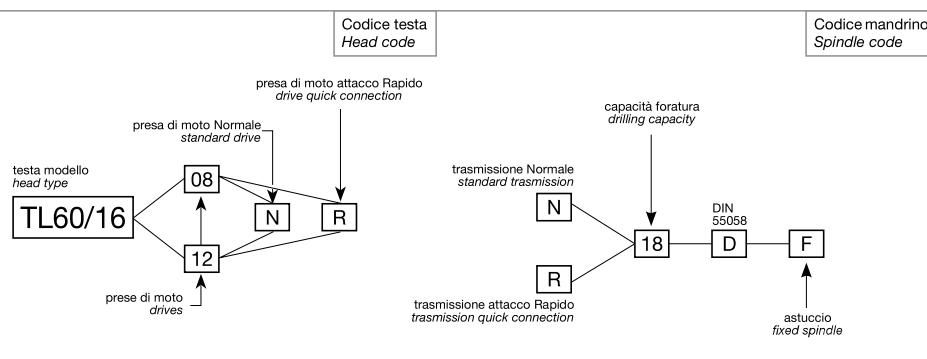
astuccio
fixed spindle



area di lavoro
working area

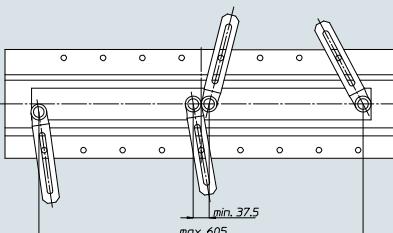


TL60/16



N° prese di moto Nr. spindle drives	08-12
Rapporto Ratio	1-1
Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	16 18
Maschiatura Tapping	M14
Attacco utensile Type of spindle DIN 55058 Ø25	D
Peso gruppo testa Head weight	Kg 36
Peso gruppo mandrino Spindle-set weight	Kg 2,5

area di lavoro
working area



FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

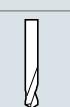
TL60/22

Codice testa
Head codeCodice mandrino
Spindle codeN° prese di moto
Nr. spindle drives

08

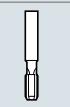
Rapporto
Ratio

1-1

Capacità di foratura
Drilling capacity
acciaio R=500 N/mm²
ghisa: GG25

20

22

Maschiatura
Tapping

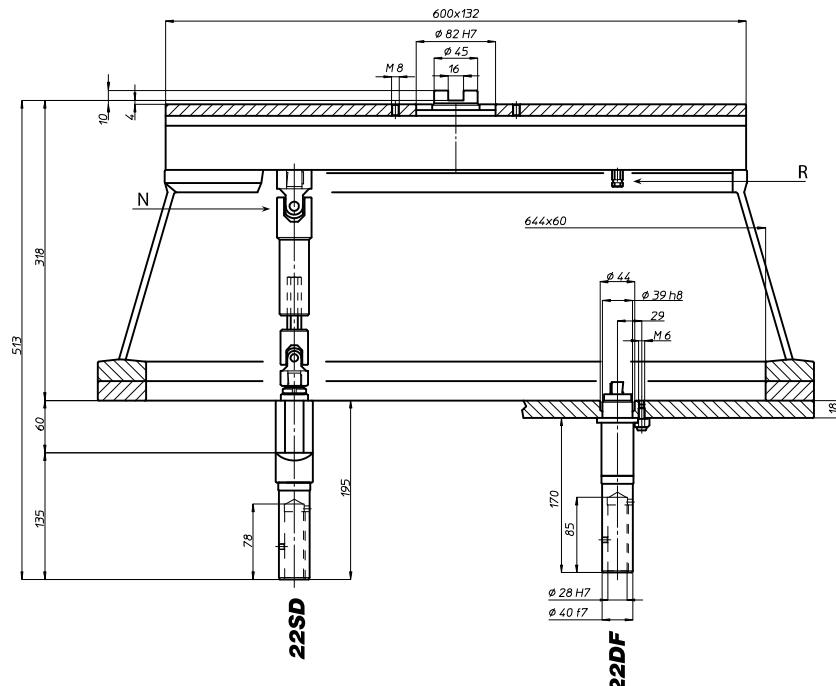
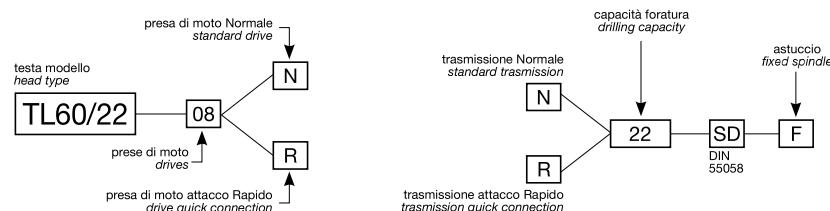
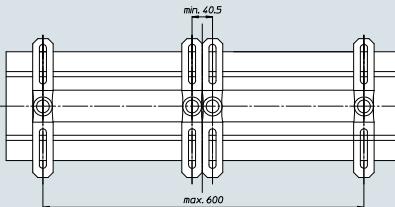
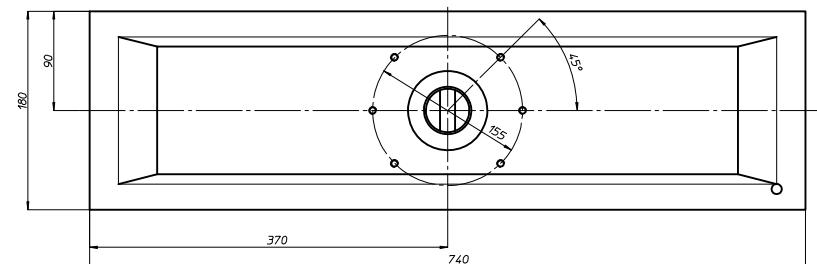
M16

Attacco utensile
Type of spindle
D DIN 55058 Ø28Peso gruppo testa
Head weight

Kg 47,5

Peso gruppo mandrino
Spindle-set weight

Kg 5

area di lavoro
working area

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

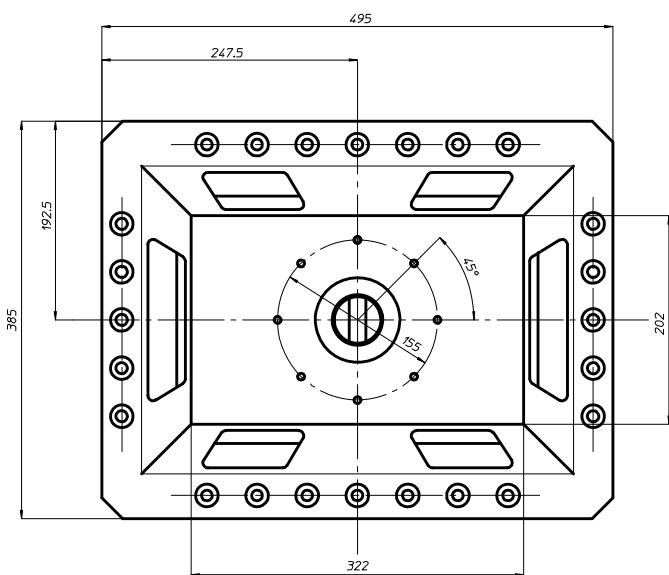
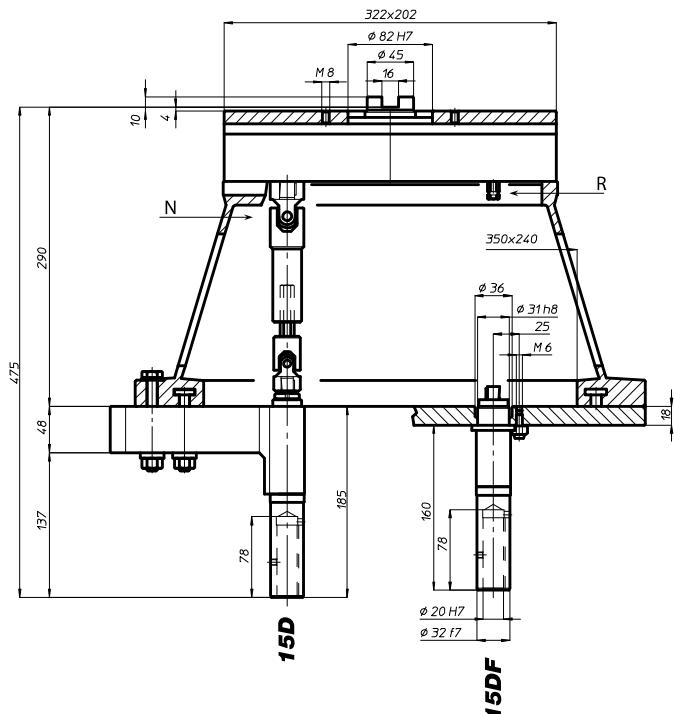
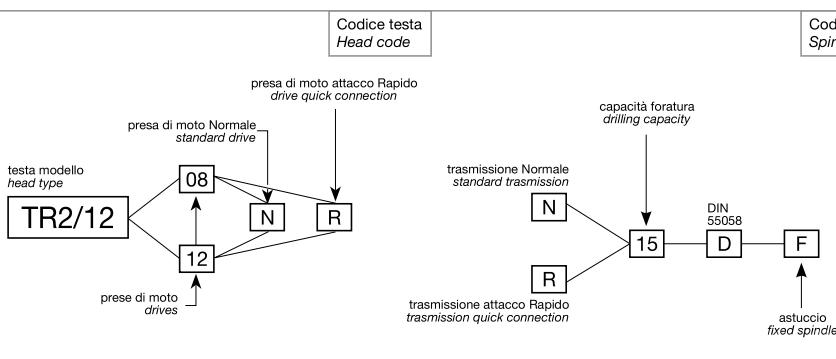
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

9-18

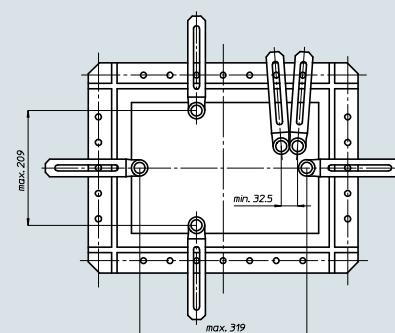


TR2/12



	N° prese di moto / Nr. spindle drives	08-12
	Rapporto / Ratio	1-1
	Capacità di foratura / Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	13 15
	Maschiatura / Tapping	M12
	Attacco utensile / Type of spindle DIN 55058 Ø20	D
	Peso gruppo testa / Head weight	Kg 30
	Peso gruppo mandrino / Spindle-set weight	Kg 2,6

area di lavoro
working area



FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T
MT-TC-TC3
Accessori
Accessories
Appendice tecnica
Technical supplement
9-19

TR2/16

FH
BAHTA.CP
TA

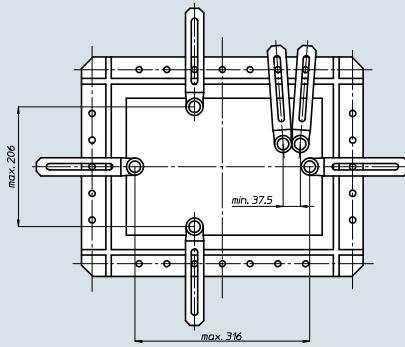
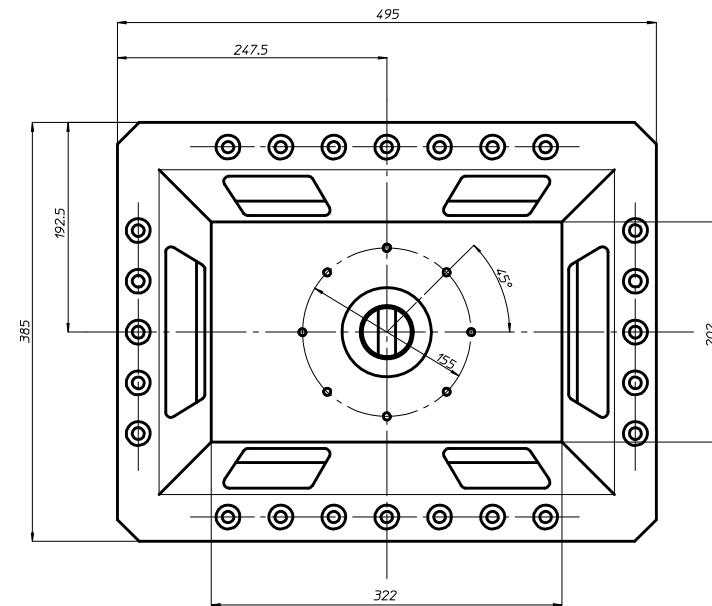
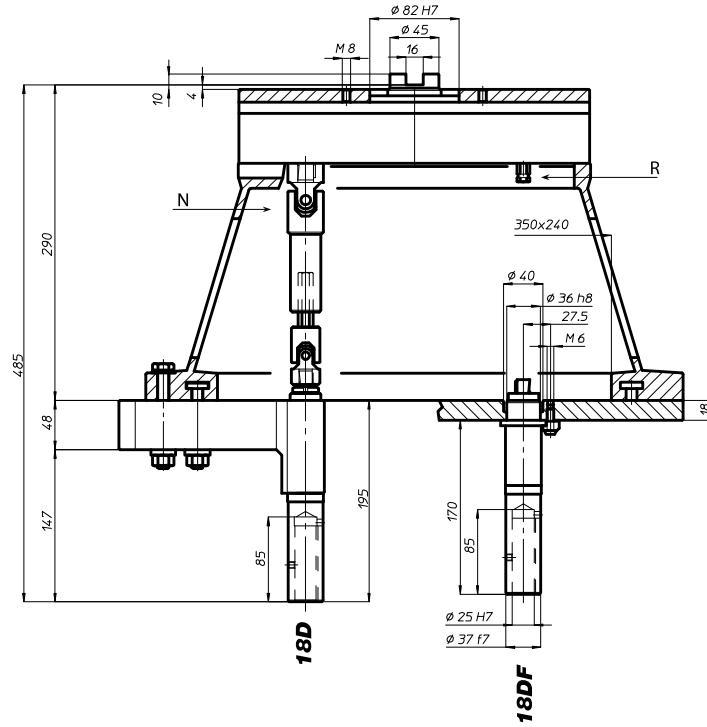
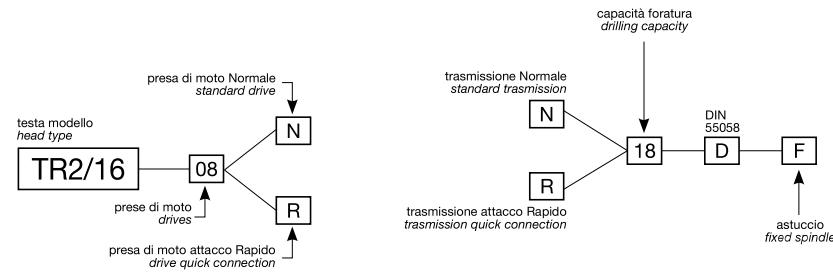
MO

HT

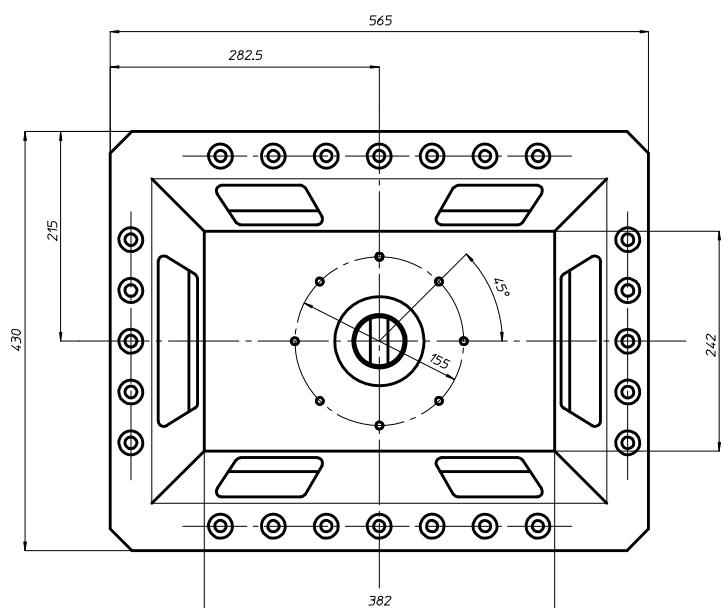
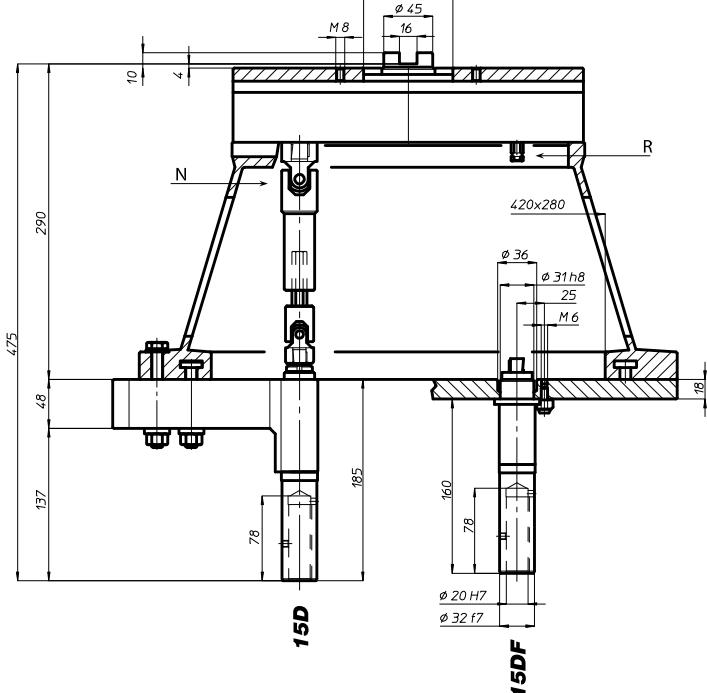
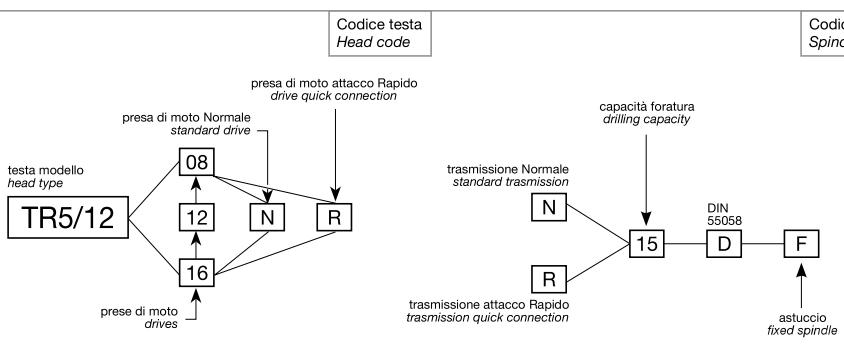
VH

TSI/TSX
TMT-TC-TC3
Accessori
AccessoriesAppendice tecnica
Technical supplement

	N° prese di moto Nr. spindle drives	10
	Rapporto Ratio	1-1
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	16 18
	Maschiatura Tapping	M14
	Attacco utensile Type of spindle DIN 55058 Ø25	D DIN 55058 Ø25
	Peso gruppo testa Head weight	Kg 31
	Peso gruppo mandrino Spindle-set weight	Kg 3,3

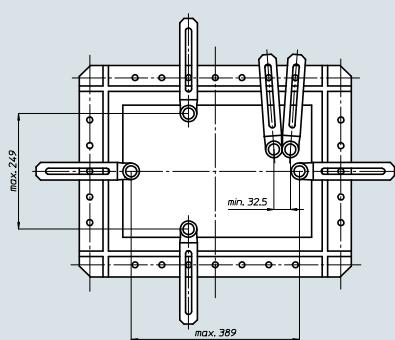
area di lavoro
working areaCodice testa
Head codeCodice mandrino
Spindle code

TR5/12



	N° prese di moto Nr. spindle drives	08-12-16
	Rapporto Ratio	1-1
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	13 15
	Maschiatura Tapping	M12
	Attacco utensile Type of spindle DIN 55058 Ø20	DIN 55058 Ø20
	Peso gruppo testa Head weight	Kg 34,5
	Peso gruppo mandrino Spindle-set weight	Kg 2,6

area di lavoro
working area



FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3
Accessori
Accessories

Appendice tecnica
Technical supplement

TR5/16



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

	N° prese di moto Nr. spindle drives	08-12
--	--	-------

	Rapporto Ratio	1-1
--	-------------------	-----

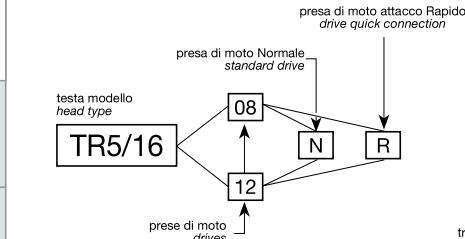
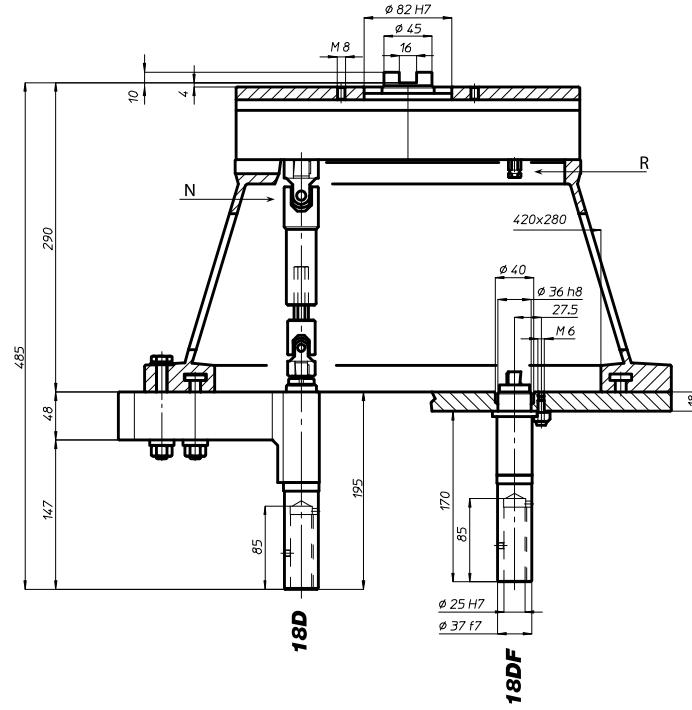
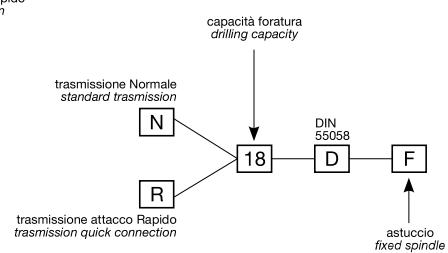
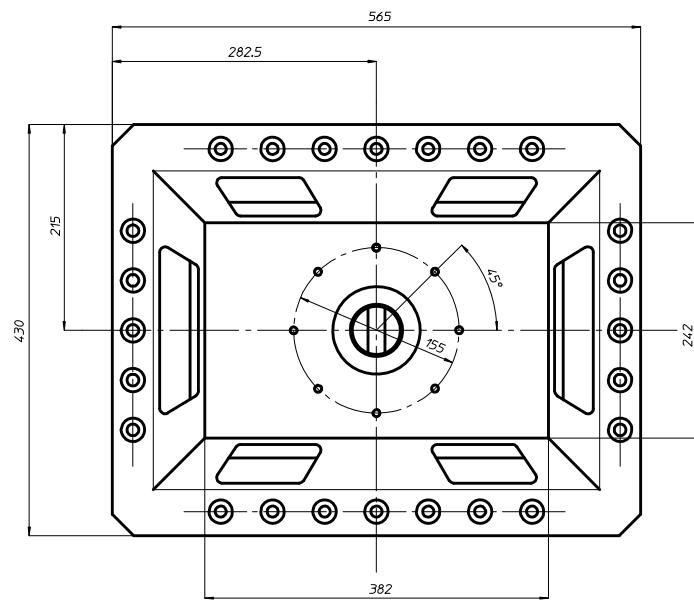
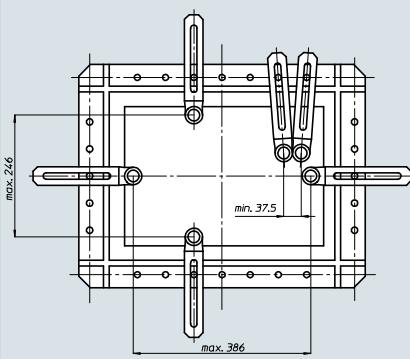
	Capacità di foratura Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	16
		18

	Maschiatura Tapping	M14
--	------------------------	-----

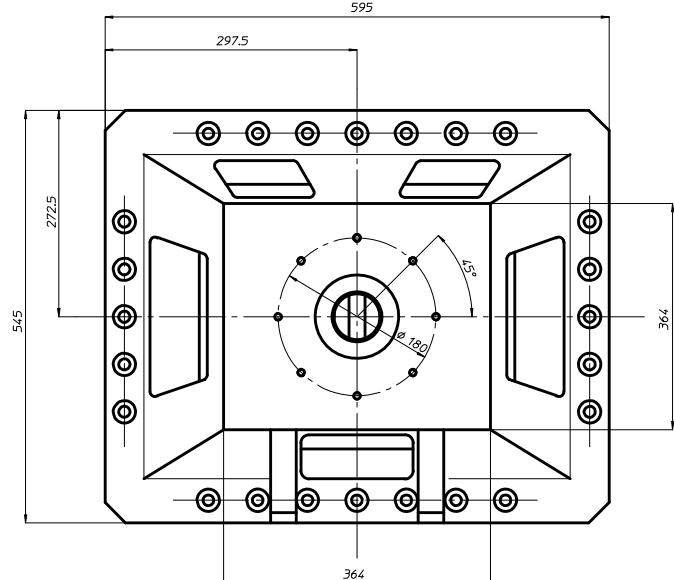
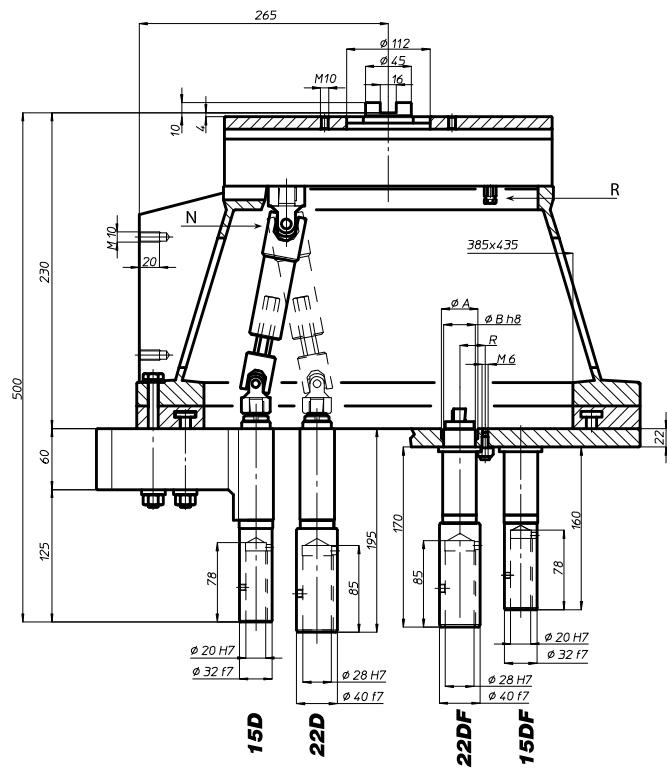
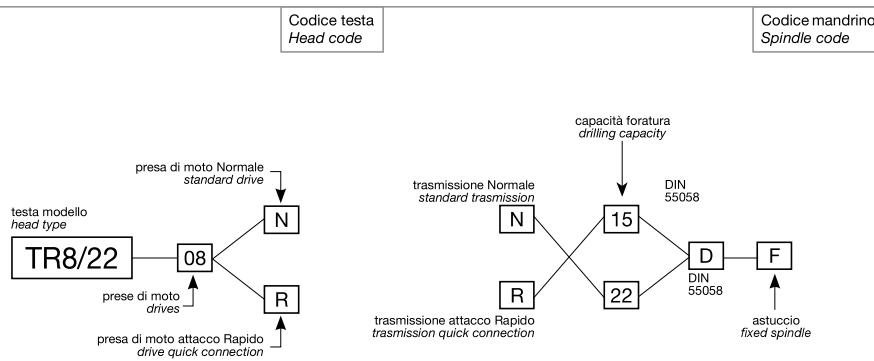
	Attacco utensile Type of spindle D	DIN 55058 Ø25
--	--	---------------

	Peso gruppo testa Head weight	Kg 36
--	----------------------------------	-------

	Peso gruppo mandrino Spindle-set weight	Kg 3,3
--	--	--------

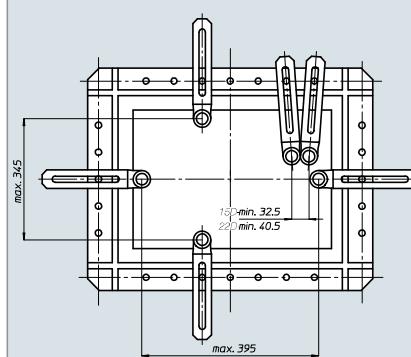
Codice testa
Head codeCodice mandrino
Spindle codearea di lavoro
working area

TR8/22



N° prese di moto / Nr. spindle drives	12
Rapporto / Ratio	1-1,5
Capacità di foratura / Drilling capacity acciaio R=500 N/mm ² ghisa: GG25	15D: 13 22D: 20 15D: 15 22D: 22
Maschiatura / Tapping	15D: M12 22D: M16
Attacco utensile / Type of spindle D DIN 55058 020-028	
Peso gruppo testa / Head weight	Kg 86
Peso gruppo mandrino / Spindle-set weight	15D: Kg 4 22D: Kg 5,5

area di lavoro / working area



FH
BAH
TA.CP
TA
MO
HT
VH
TSI/TSX
T

MT-TC-TC3
Accessori / Accessories
Appendice tecnica / Technical supplement

TM400

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

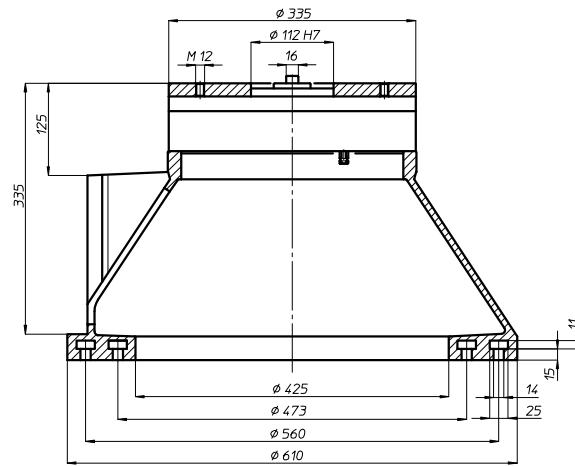
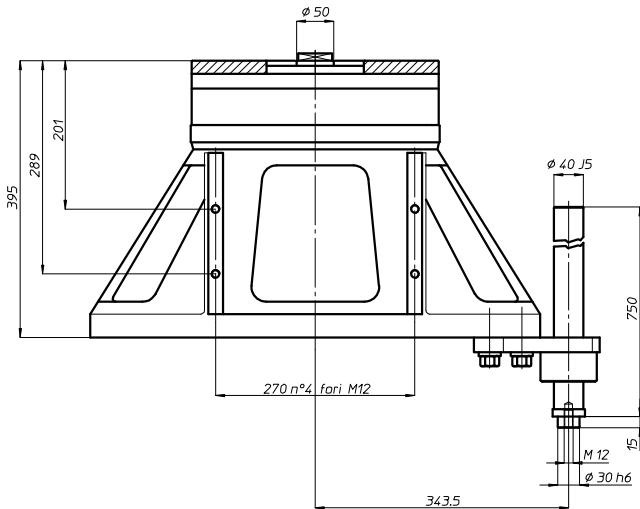
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplementCodice testa
Head codetesta modello
head type

TM400

12

R

prese di moto
drivespresa di moto attacco Rapido
drive quick connectionN° prese di moto
Nr. spindle drives

12

Rapporto
Ratio

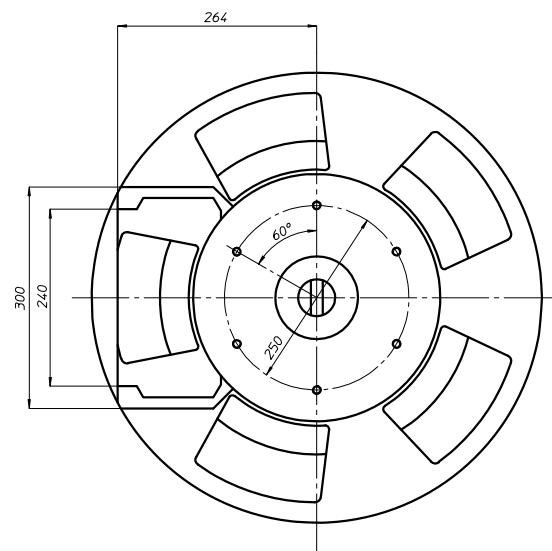
1-1

Peso
Weight

Kg 105

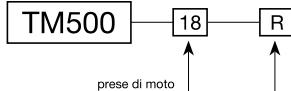
area di lavoro
working area

Ø 385



TM500

testa modello
head type



prese di moto
drives

presa di moto attacco Rapido
drive quick connection

Codice testa
Head code



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

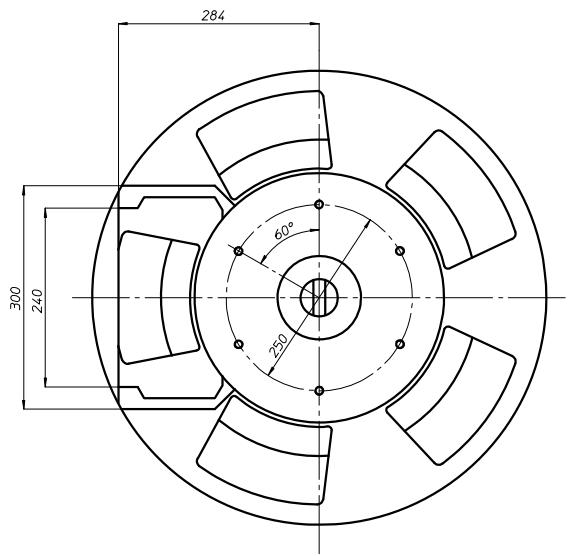
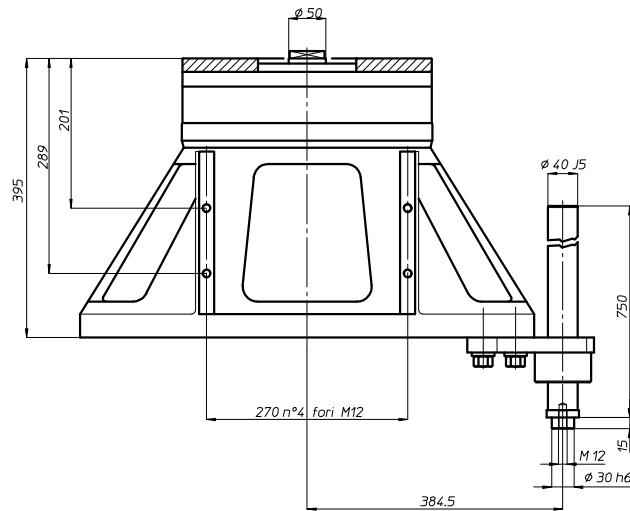
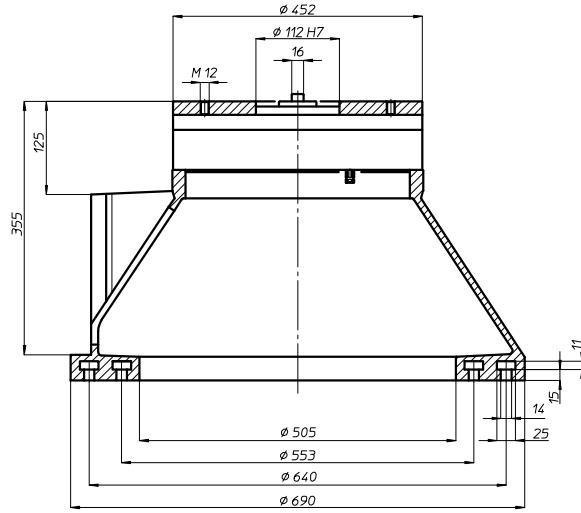
T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

9-25



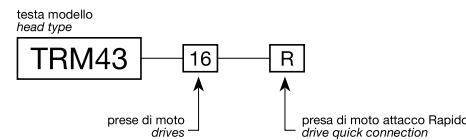
	N° prese di moto Nr. spindle drives	18
	Rapporto Ratio	1-1
	Peso Weight	Kg 145

area di lavoro
working area

Ø 465



TRM43

Codice testa
Head codeN° prese di moto
Nr. spindle drives

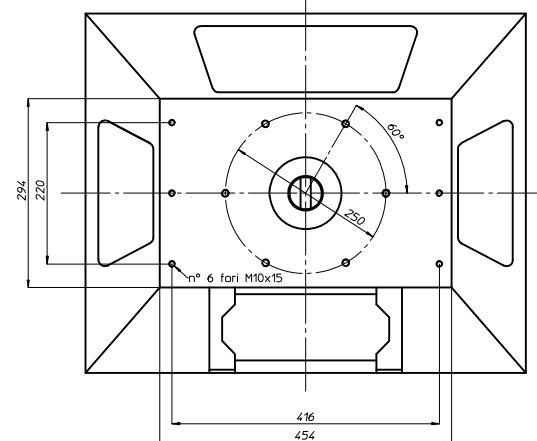
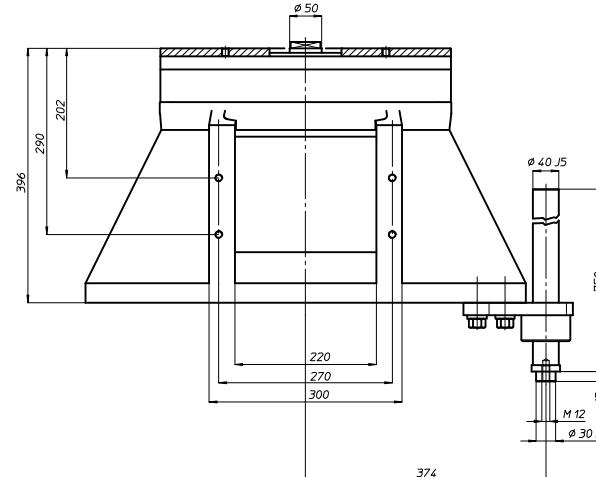
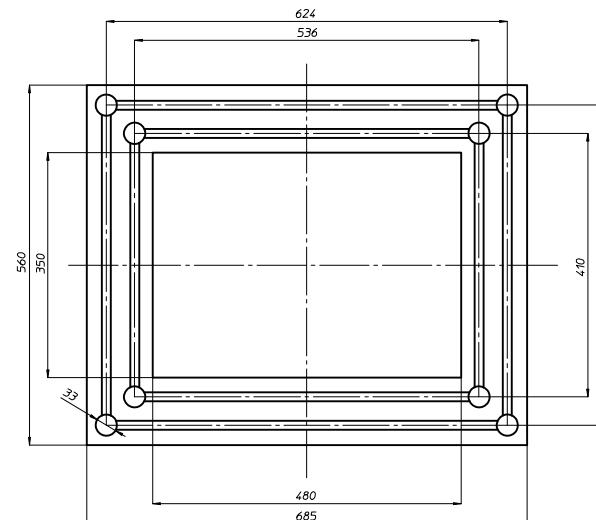
16

Rapporto
Ratio

1-1

Peso
Weight

Kg 135



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

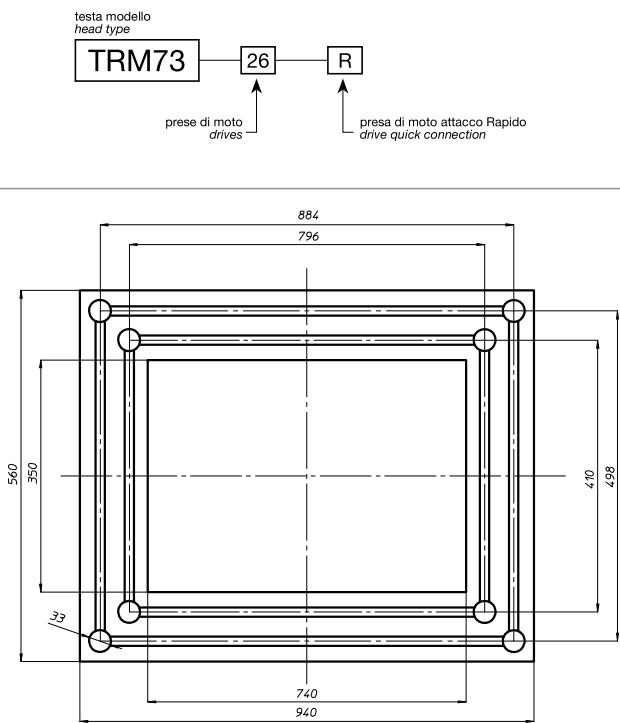
T

MT-TC-TC3

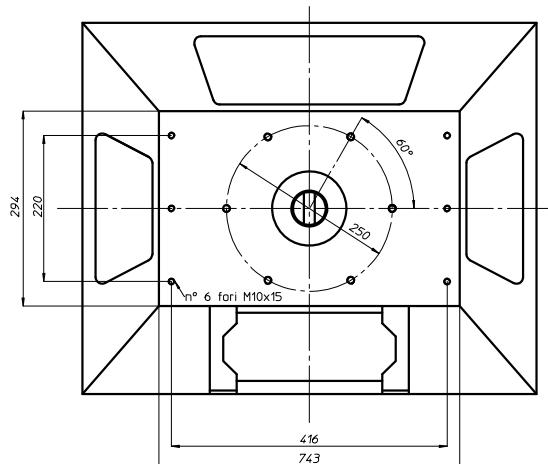
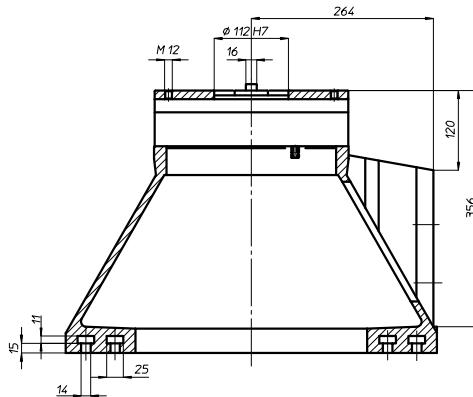
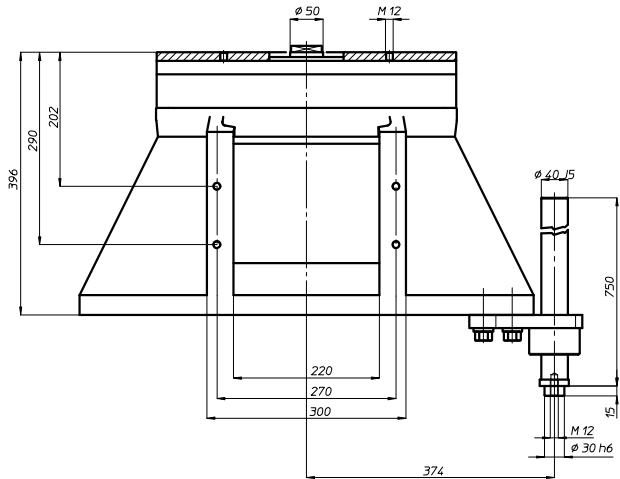
Accessori
AccessoriesAppendice tecnica
Technical supplementarea di lavoro
working area

300 x 440

TRM73



Codice testa
Head code



area di lavoro
working area

300 x 700

TA.CP | TA | MO

BAH | FH

HT | HT

VH | VH

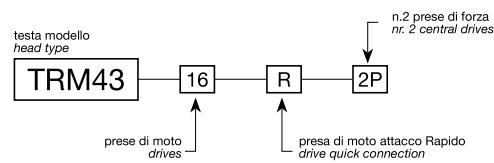
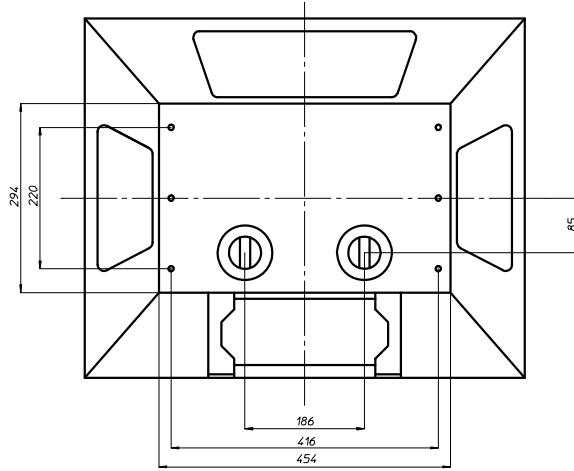
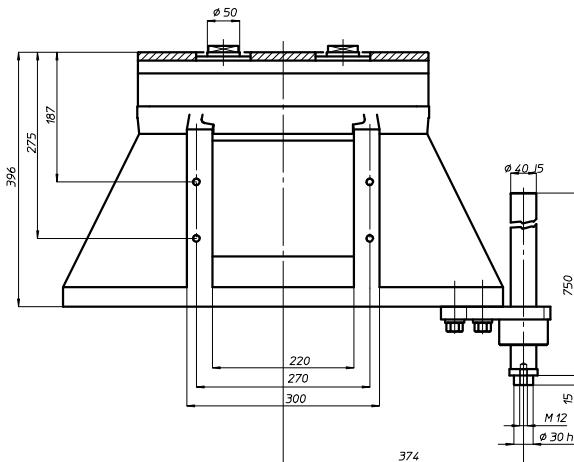
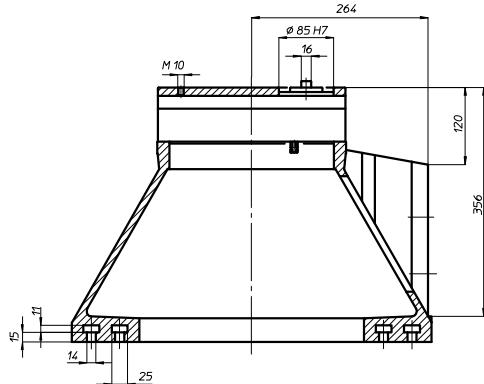
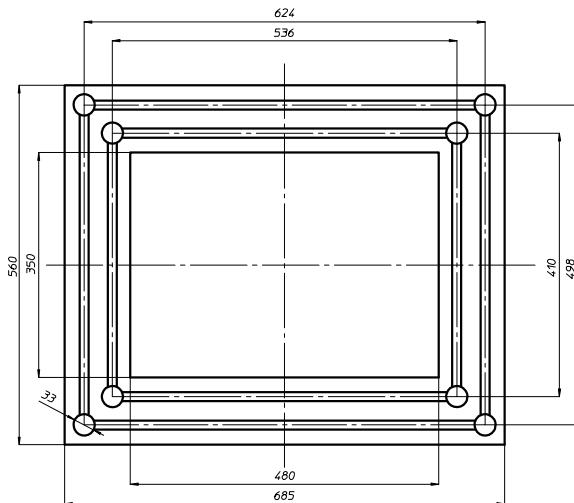
TSI/TSX | TSI/TSX

MT-TC-TC3 | MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TRM43-2P

Codice testa
Head codeN° prese di moto
Nr. spindle drives**8+8**Rapporto
Ratio**1-1**Peso
Weight**Kg 140**area di lavoro
working area

300 x 440

FH

BAH

TA.CP

TA

MO

HT

VH

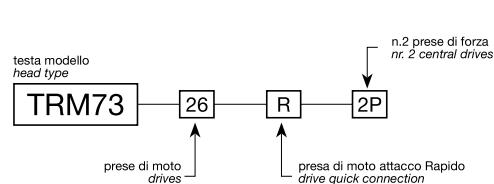
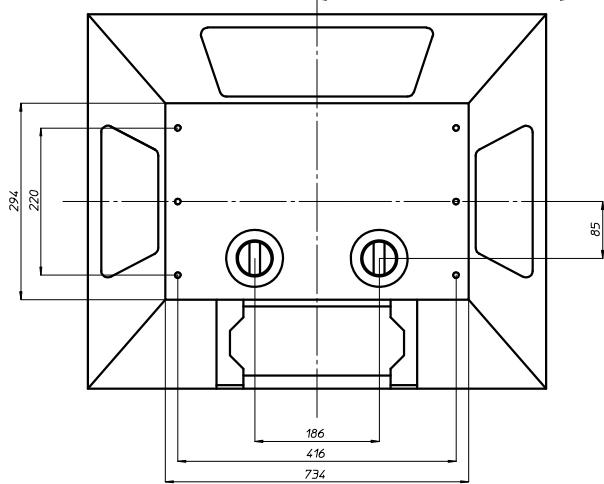
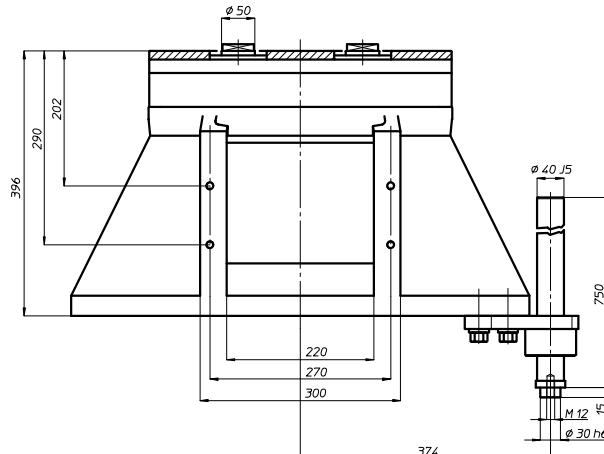
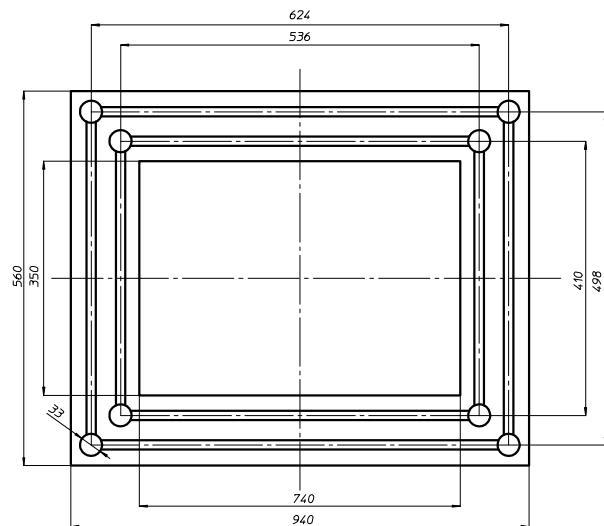
TSI/TSX

T

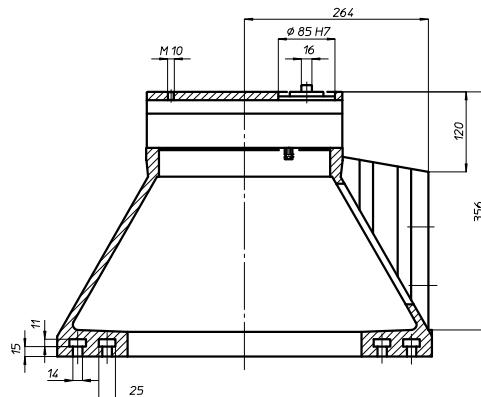
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

TRM73-2P

Codice testa
Head code

	N° prese di moto Nr. spindle drives	13+13
	Rapporto Ratio	1-1
	Peso Weight	Kg 210



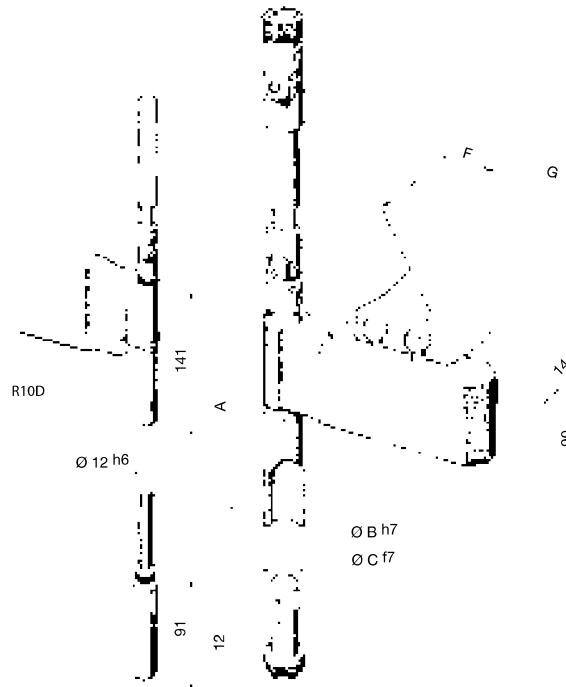
MT-Tc-Tc3	T	TSI/TSX	VH	HT	MO	TA	TA.CP	BAH	FH
area di lavoro working area									
300 x 700									

Accessori
AccessoriesAppendice tecnica
Technical supplement

solo per teste TM-TRM

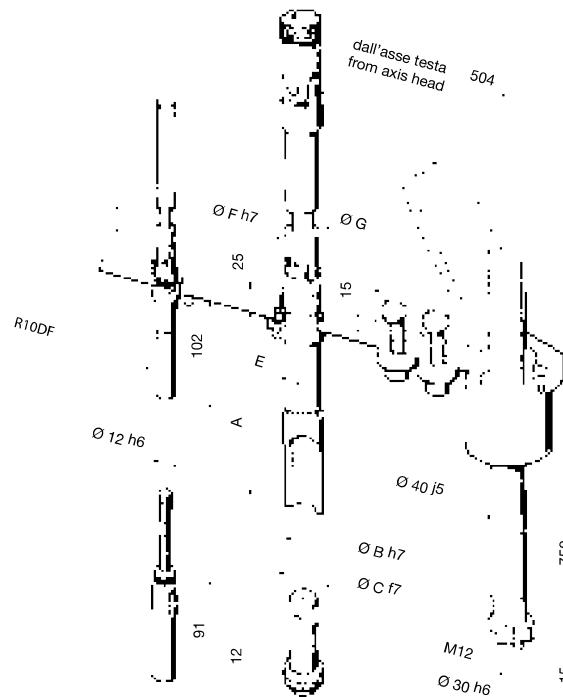
for TM-TRM heads only

su staffa - on arm

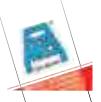


Tipi mandrini spindles type	10D	12D	15D	18D	22D	25D
Codice code	R10D-S5 R10D-S6	R12D-S5 R12D-S6	R15D-S5 R15D-S6	R18D-S5 R18D-S6	R22D-S5 R22D-S6	R25D-S5 R25D-S6
Capacità foratura drilling capacity acciaio R=500 N/mm	8	10	13	16	20	22
ghisa: GG25	10	12	15	18	22	25
Capacità maschiatura tapping	M6	M8	M12	M14	M16	M18
A	127	181	185	194	195	232
ØB h7	12	16	20	25	28	32
ØC f7	20	25	32	37	40	45
F	59	55	55	55	55	60
G	200 270	200 270	200 270	200 270	200 270	200 270
Interasse minimo center distance	23	28	32,5	37,5	40,5	50
Peso weight	kg 4,0 4,5	kg 4,7 5,2	kg 5,2 5,7	kg 5,5 6,3	kg 6,6 7,4	kg 8,6 9,5

su astuccio per flangia fissa - fixed plate spindle

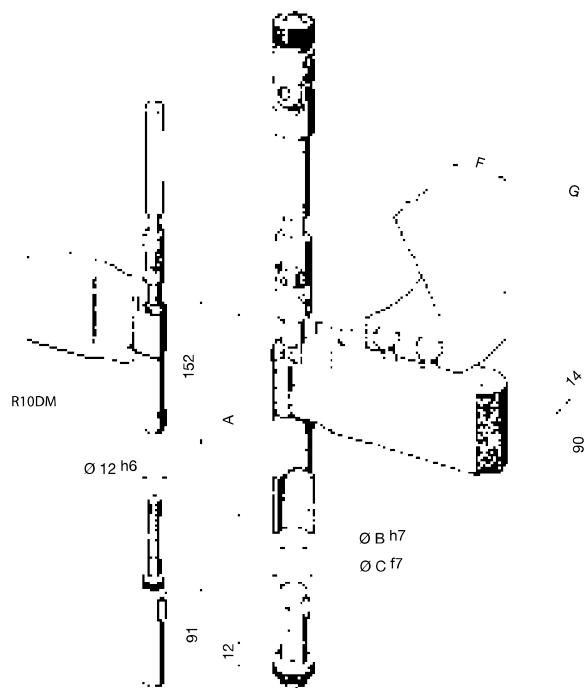


Tipi mandrini spindles type	10D	12D	15D	18D	22D	25D
Codice code	R10DF	R12DF	R15DF	R18DF	R22DF	R25DF
Capacità foratura drilling capacity acciaio R=500 N/mm	8	10	13	16	20	22
ghisa: GG25	10	12	15	18	22	25
Capacità maschiatura tapping	M6	M8	M12	M14	M16	M18
A	102	156	160	169	170	207
ØB h7	12	16	20	25	28	32
ØC f7	20	25	32	37	40	45
E Interasse vite M6 distance screw M6	18,5	23	25	27,5	29	34
ØF h7	23	27,5	31	36	39	50
ØG	27	32	36	40	44	56
Interasse minimo center distance	23,5	28	32,5	37,5	40,5	50,5
Peso weight	kg 2,0	kg 2,3	kg 2,6	kg 3,4	kg 3,8	kg 5,2



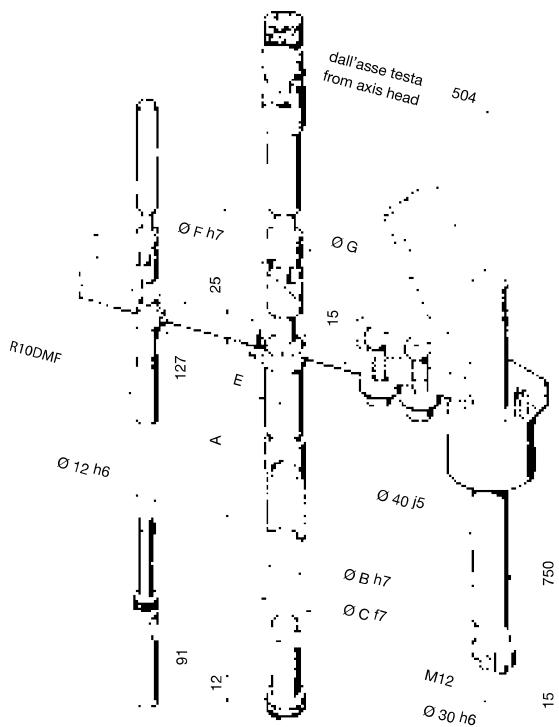
solo per teste TM-TRM
for TM-TRM heads only

su staffa - on arm



Tipi mandrini spindles type	10DM	15DM	22DM
Codice code	R10DM-S5 R10DM-S6	R15DM-S5 R15DM-S6	R22DM-S5 R22DM-S6
Capacità maschiatura tapping	M6	M12	M16
Corsa maschiatura Tapping stroke	40	40	40
A	152	208	217
ØB h7	12	20	28
ØC f7	20	32	40
F	59	55	55
G	200 270	200 270	200 270
Interasse minimo center distance	23	32,5	40,5
Peso weight	4,0 4,5	5,2 5,7	6,6 7,4

su astuccio per flangia fissa - fixed plate spindle



Tipi mandrini spindles type	10DM	15DM	22DM
Codice code	R10DMF	R15DMF	R22DMF
Capacità maschiatura tapping	M6	M12	M16
Corsa maschiatura Tapping stroke	40	40	40
A	127	183	192
ØB h7	12	20	28
ØC f7	20	32	40
E Interasse vite M6 distance crew M6	18,5	25	29
ØF f7	23	31	39
ØG	27	36	44
Interasse minimo center distance	23,5	32,5	40,5
Peso weight	2,0	2,6	3,8

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

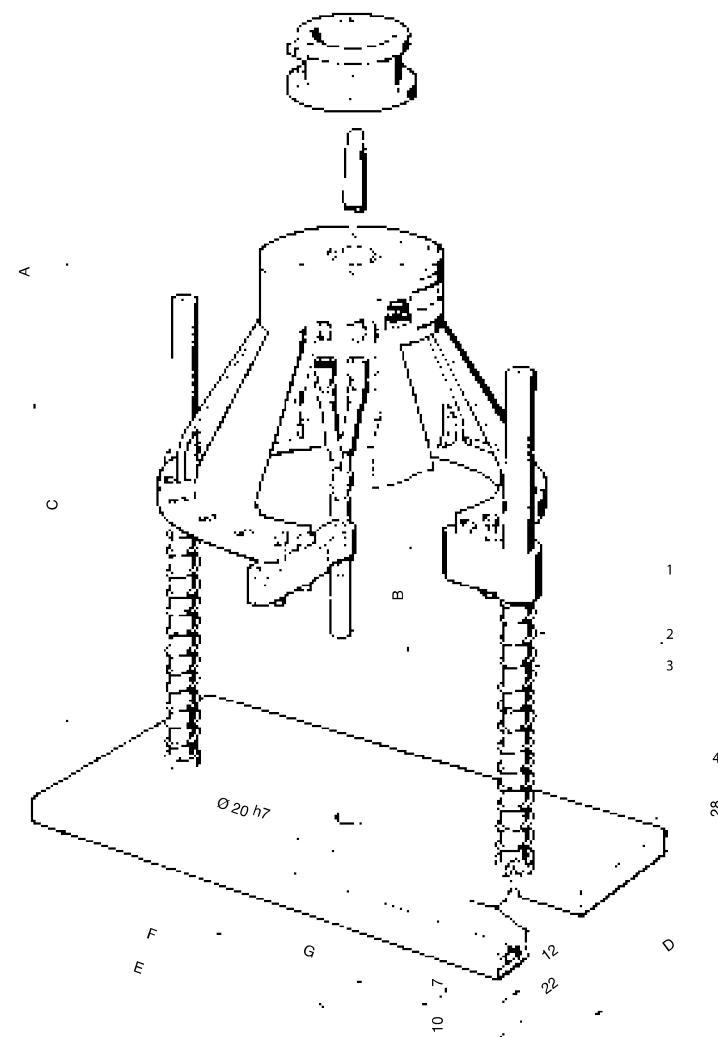
MT-TC-TC3

T

Accessori
AccessoriesAppendice tecnica
Technical supplement

attrezzature per teste multiple *multispindle heads equipment*

serie T - TS - TL - TR

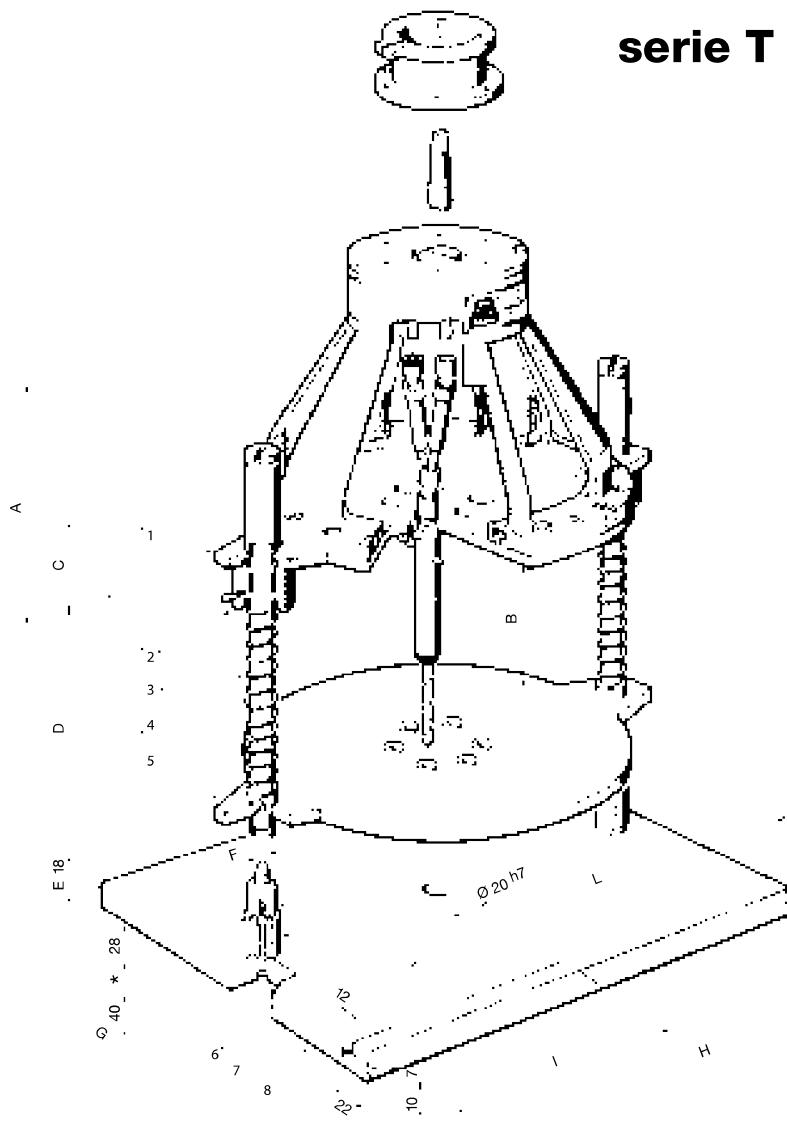


Modello testa head type	A	B						1 supporto di guida guide bush	2 molla spring	3 colonna column	4 base base	
			DIN 55058	Pinza ER	C	D	E	F	G			
T4	205	91,5	500	250	500	280	350	300	076123	076126	076120	076081
T7	205	101,5										076082
T10	236	109										076083
T12	260	172										076084
TS12	283	172										076088
T15	272	175										076085
TS15	282	175										076089
T18	293	185										076086
TS18	299	85										076090
T22	317	185										076087
TS22	317	185										076091
TL20/4	237	91,5	500	250	500	400	300	076123	076126	076120	076092	
TL20/6	237	101,5										
TL20/8	237	109										
TL40/12	290	175										
TL40/16	290	185										
TL40/22	318	185										
TL60/12	290	175										
TL60/16	290	185										
TL60/22	318	185										
TR2/12	290	175										
TR2/16	290	185										
TR5/12	290	175										
TR5/16	290	185										



attrezzature per teste multiple *multispindle heads equipment*

serie T - TS - TL - TR



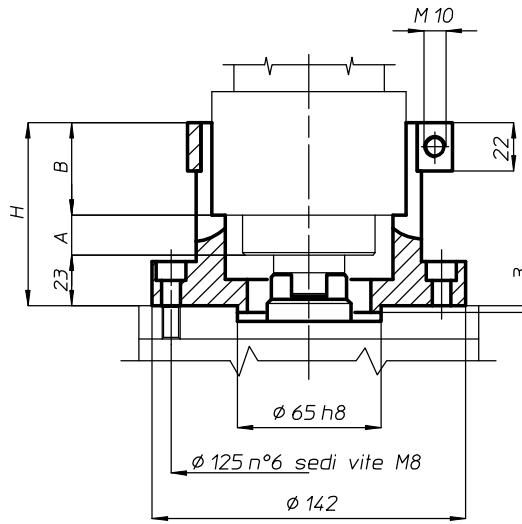
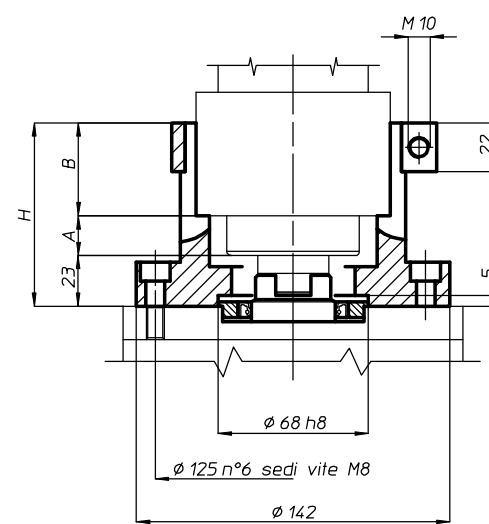
* a richiesta

Modello testa head type	A	B	C	D	E	ØFh7	G	H	I	L	1 fiancia fissa fixed plate	2 cartuccia guide bush	3 molla spring	4 colonna column	5 maschera drilling jig	6 distanziale spacer	7 puntale push-rod	8 base base			
T4	205	91,5	76				280				076001						076081				
T7	205	101,5	76	70	280	22	10	250	500	300	350	076002	076122	076126	076121	076052	076127	076082			
T10	236	109	94,5								404	076003				076053		076083			
T12	260	172									454	076004				076054		076084			
TS12	283	172									542	076005				076055		076085			
T15	272	175									492	076006				076056		076086			
TS15	282	175									552	076007				076057		076087			
T18	293	185									540	076008				076058		076088			
TS18	299	185									582	076009				076059		076089			
T22	317	185									540	076010				076060		076090			
TS22	317	185									582	076011				076061		076091			
TL20/4	237	91,5	76				280	22	10	250	500	300	400	076012	076122	076126	076121	076062	-	076127	076092
TL20/6	237	101,5	76	70	280	22	10	250	500	300	400										
TL20/8	237	109	94,5																		
TL40/12	290	175									650	350	604	076013				076063		076093	
TL40/16	290	185																			
TL40/22	318	185																			
TL60/12	290	175									850	450	804	076014				076064		076094	
TL60/16	290	185																			
TL60/22	318	185																			
TR2/12	290	175									548	076015				076065		076095			
TR2/16	290	185																			
TR5/12	290	175									650	350		076016				076066		076096	
TR5/16	290	185																			

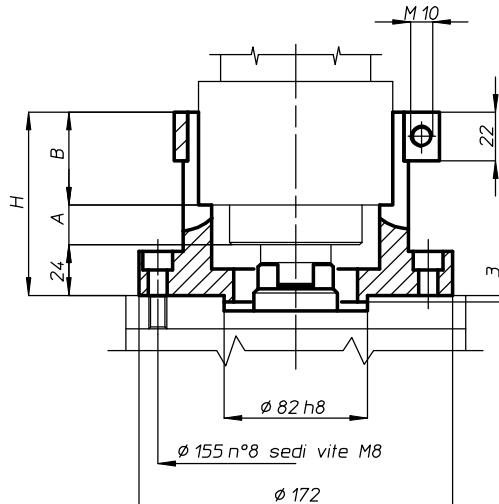
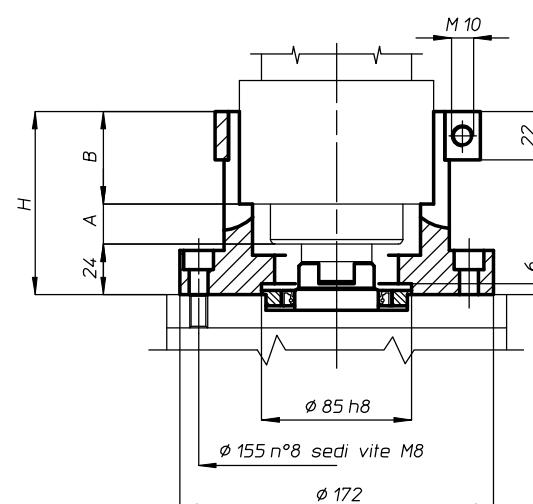
Attacco Cono Morse trascinatore

Morse Taper with driving dog

T4 - T7 - T10 - TL20...

Versione standard*Standard version***Solo versione orizzontale***For horizontal use only*

T12 - T15 - T18 - T22 - TL40... - TL60... - TR2... - TR5...

Versione standard*Standard version***Solo versione orizzontale***For horizontal use only*

note

notes

Accessori
Accessories

9-35

