

PIBOMULTI

Standard

SWISS

MADE

<http://www.pibomulti.com> - info@pibomulti.com
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Standard

Têtes angulaires
Winkelköpfe
Angular heads

Multiplicateurs de vitesse
Schnellaufspindeln
Spindle speeders

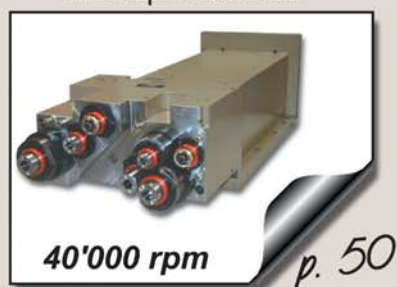
Têtes revolver
Revolverköpfe
Turret heads



Têtes multibroches
Mehrspindelköpfe
Multispindle heads

Rallonges de broches
Spindelverlängerungen
Spindle extensions

Tête à broches alternées
Köpfe mit abwechselnden Spindeln
Multi heads with alternating spindles



LES AVANTAGES PIBOMULTI - DIE PIBOMULTI VORTEILE PIBOMULTI ADVANTAGES

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PIBOMULTI est reconnu pour vous offrir un choix incomparable de têtes angulaires adaptées à tout type de machines qui vous permettront de résoudre vos problèmes d'usinage et qui vous apporteront des solutions efficaces, afin de réduire vos temps de production. En effet, les têtes angulaires **PIBOMULTI** vous offriront la possibilité de fraiser, percer ou tarauder dans tous les angles et dans toutes les grandeurs. Elles sont efficaces pour contrer les usinages difficiles jugés impossibles. Les têtes angulaires **PIBOMULTI** sont adaptées à toutes les opérations d'usinage requises à la configuration de la pièce.

- ➔ à l'intérieur d'alésages ou de poches
- ➔ lors d'encombrements réduits
- ➔ accès difficilement atteignables
- ➔ éviter les serrages multiples

Les têtes angulaires standard ou spéciales **PIBOMULTI** sont des produits haut de gamme, livrables en tout type de cône ISO, HSK ou flasquées, avec une ou plusieurs sorties de broches adaptées aux outils et à la configuration de la pièce.

Elles sont rigides, compactes, légères, fiables et de grande longévité. Les têtes angulaires **PIBOMULTI** sont construites avec soins et usinées avec une grande précision, parfois conçues aux limites de la faisabilité, montées avec :

- ➔ des roulements de broche à contact oblique ou à rouleaux coniques de précision, selon cas et utilisation
- ➔ des engrenages hélicoïdaux de précision en acier de haute résistance, cémentés, trempés et rectifiés ou rodés
- ➔ elles peuvent vous offrir un arrosage central à 50 bars
- ➔ elles sont graissées à vie ou en option lubrifiées par air/huile vous permettant de plus grande vitesse de rotation ainsi qu'une grande longévité.

*De la conception à la réalisation !
Vom Entwurf bis zur Verwirklichung !
From design to realisation !*

PIBOMULTI ist führend in der Produktion von Winkelköpfen und besonders bekannt durch seine grosse Produktpalette. Die **PIBOMULTI**-Winkelköpfe steigern erheblich den Automatisierungsgrad der Produktionsmaschinen und reduzieren somit im gleichen Masse die Produktionszeiten. So z.B. wenn durch sie Mehrfachaufspannungen vermieden oder die Bearbeitungsprobleme erst lösbar werden.

Die Winkelköpfe sind universell einsetzbar. In unterschiedlichsten Grössen und in allen Winkellagen wird mit ihnen gebohrt, gefräst, ausgedreht, gewindegeschnitten usw. In Sonderausführungen können sie der Form des Werkstückes angepasst werden und können so Bearbeitungsoperationen erfüllen die zunächst als unmöglich erschienen. Solche Einsatzfälle sind :

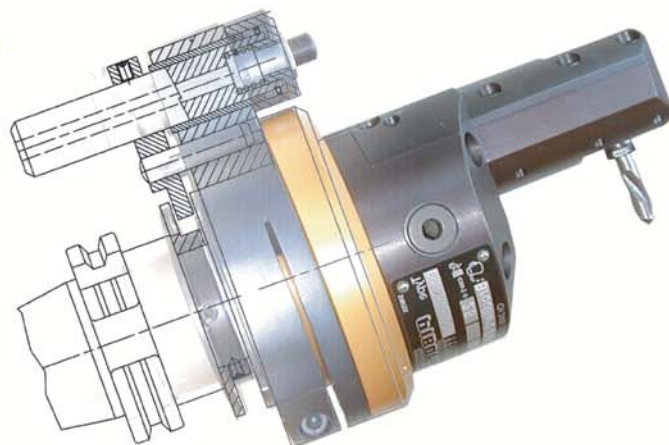
- ➔ in engen Bohrungen oder Taschen,
- ➔ schmalen Bearbeitungsfenstern
- ➔ kollisionsträchtigen Vorrichtungssituationen

Die **PIBOMULTI** - Winkelköpfe, in Standard- wie in Sonderausführung, sind Produkte höchster Qualität. Sie sind für alle Maschinenschnittstellen lieferbar : alle Steilkegelarten, Hohlschaftkegel oder Anflanschlösungen. Die Abtriebsspindeln können für alle gängigen Werkzeugaufnahmesysteme ausgelegt sein : Spannzangen, Weldon, Whistle Notch, HSK, ABS, Capto usw. bis hin zu Sonderaufnahmen nach Kundenzeichnung. Grundsätzlich können die Winkelköpfe mit einer oder mehreren Abtriebsspindeln versehen sein.

Allgemein zeichnen sich die **PIBOMULTI** - Winkelköpfe durch ihre Steifigkeit, Kompaktheit, Zuverlässigkeit und lange Lebensdauer aus. Ein kleiner Nebenaspekt ist das gefällige Design. Unsere Konstrukteure gehen in der Entwicklung bis an die Grenze des technisch machbaren, welches in der Produktion durch höchste Präzision und Sorgfalt realisiert wird. Einige technische Merkmale sind:

- ➔ Schrägschulter-Spindellager oder Schrägrollenlager höchster Qualität
- ➔ Helikoidal-Winkelgetriebe aus hochfestem Stahl, gehärtet, geschliffen, geläpft und oberflächenbeschichtet
- ➔ Schmierung als Dauerfettsschmierung, Oelnebschmierung oder Oel-Luft-Schmierung, entsprechend der Einsatzbestimmung
- ➔ Innere Kühlmittelzuführung bis zu 50 bar Druck (optional)

Anwender, rund um den Globus, vertrauen täglich **PIBOMULTI**-Winkelköpfen.



PIBOMULTI angle heads are recognized worldwide for bringing effective solutions to manufacturing problems, reducing production time, and for their adaptability to any type of machine.

The variety of choices among **PIBOMULTI** angle heads makes possible milling, drilling or tapping at every angle and in every size, effectively handling manufacturing situations often considered impossible. **PIBOMULTI** heads can be designed to

- ➔ Operate inside bores or pockets
- ➔ Reach areas with difficult access or small clearances
- ➔ Reduce multiple set-ups of parts

Whether standard or special, **PIBOMULTI** angle heads are available in any type of shank, ISO, HSK or flanged, with one or several spindle outputs adapted to tools and to the configuration of the work piece.

PIBOMULTI angle heads are rigid, compact, light, reliable and engineered for long life. **PIBOMULTI** designs and manufactures all its products with care and precision, often successfully pushing the limits of engineering feasibility. Angle head features include:

- ➔ Spindle bearings with angular contact or precision conical roller bearings, according to the application to be performed
- ➔ Precision, steel helical bevel gears are surface-treated, hardened and ground, providing high resistance to wear
- ➔ Thru-tool coolant up to 50 bar pressure is available
- ➔ Lubrication via permanent grease pack or air-oil mist for higher RPM capability and longer life.

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Cône ISO + HSK

Tête équerre à pince pour percer fraiser et tarauder
Winkelkopf mit Zangen zum Bohren, Fräsen und Gewindeschneiden
Angular head with collets for drilling, milling and tapping

CEP 08 L1 - CEP 08 L2	4
CEP 10 L1 - CEP 10 L2	4
CEP 13 L1 - CEP 13 L2	5
CEP 16 L1 - CEP 16 L2	6
CEP 20 L1 - CEP 20 L2	7
CEP 26 L1 - CEP 26 L2	8

Tête équerre à pince à multiplication pour percer fraiser et tarauder
Winkelkopf mit Übersetzung und Zangen zum Bohren,
Fräsen und Gewindeschneiden
Angular head with collets with ratio for drilling, milling and tapping

CMP 10 L1 - CMP 10 L2	9
CMP 16 L1 - CMP 16 L2	9
CMP 10X5 L1 - CMP 10X5 L2	10

Tête équerre de sciage
Winkelkopf zum Sägen
Sawing angular head

CEF 16/22/27/32	10
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Tête équerre à cône
Winkelkopf mit Steilkegel
Angular head with shank

CEC 30 L1 - CEC 30 L2	11
CEC 40 L1 - CEC 40 L2	12
FEC 30	13
FEC 40	13
CEC 50	14
FEC 50	14

Tête équerre réglable à pince pour percer et fraiser
Einstellbarer Winkelkopf mit Zangen zum Bohren und Fräsen
Adjustable angular head with collets for drilling and milling

CTAR 07	15
CTAR 10	15
CTAR 13	16
CTAR 16	16
FTAR 16	17
CTAR 20	17
FTAR 20	17
CTAR 25	18
FTAR 25	18

Tête angulaire réglable à cône
Einstellbarer Winkelkopf mit Steilkegel
Adjustable angular head with shank

CTAR 40 / CTARH 40	19
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FTAR 40 - 2.5 / FTARH 40 - 2.5	20
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Cône ISO + HSK

Tête pour usiner dans les alésages
Kopf für die Bearbeitung in Bohrungen
Head for machining inside of bores

CDP 02 L1 / L2 / etc	23
CDP 03 L1 / L2 / etc	24
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VDI

Tête pour tour
Kopf für Drehmaschine
Head for lathe

TTAR 07	31
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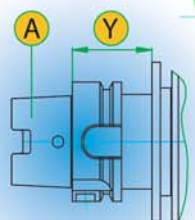
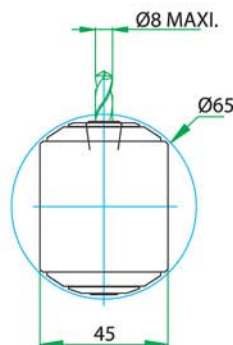
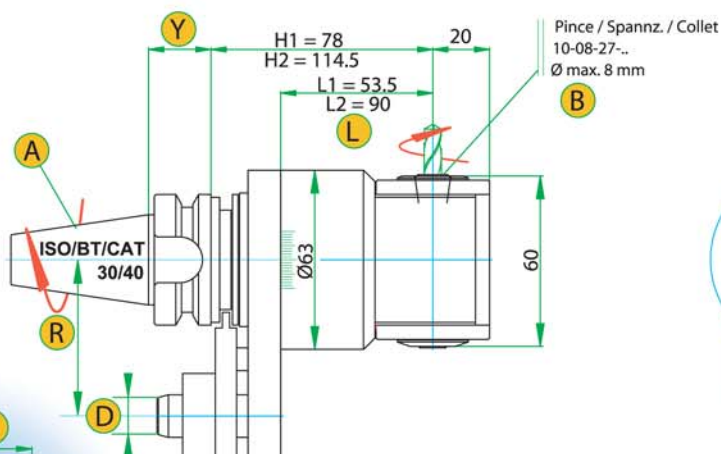


CEP 08 L1 - CEP 08 L2

7'000 rpm

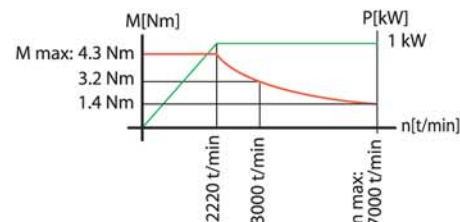
SPECIAL : 10 000 rpm

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HSK 40/50/63

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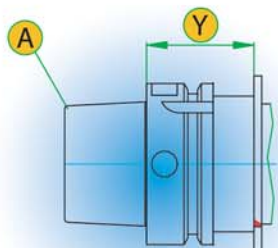
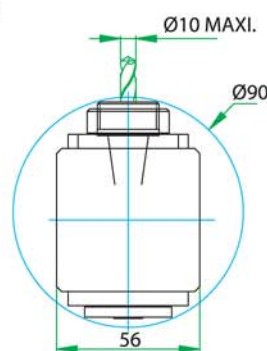
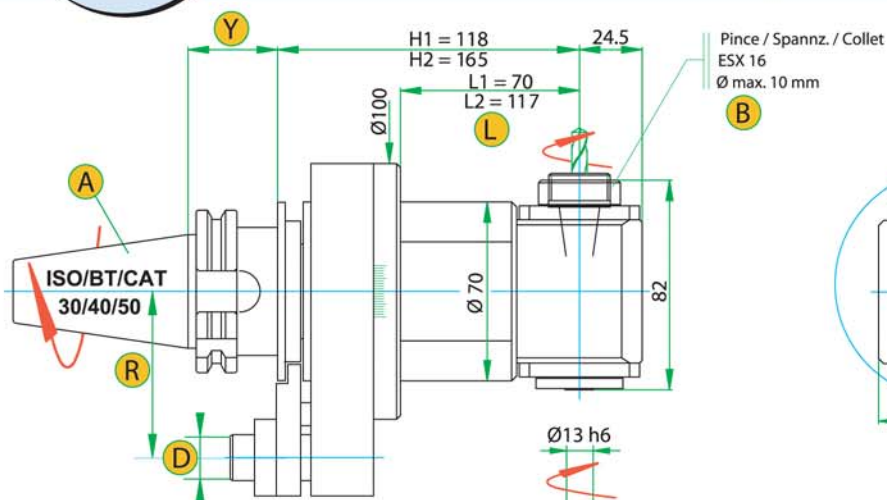
	kW	Nm		kg
7000 t/min u/min rpm	1.0 kW	4.3 Nm	1 à 1	≈ 1.5 à 3 kg



CEP 10 L1 - CEP 10 L2

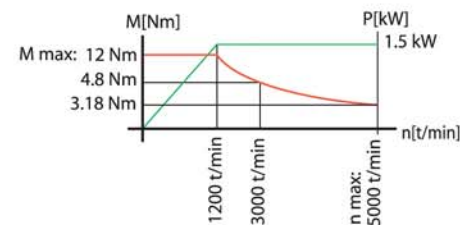
5'000 rpm

SPECIAL : 7 000 rpm


HSK 63/80

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	kW	Nm		kg
5000 t/min u/min rpm	1.5 kW	12 Nm	1 à 1	≈ 5.5 à 9 kg



Ø13 / M8
MAXI.

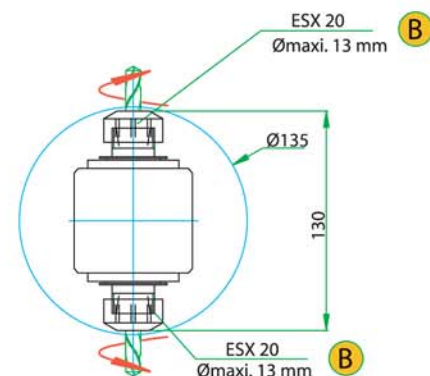
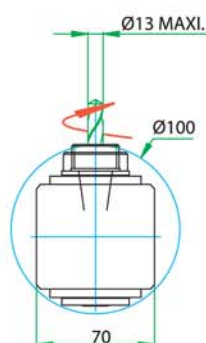
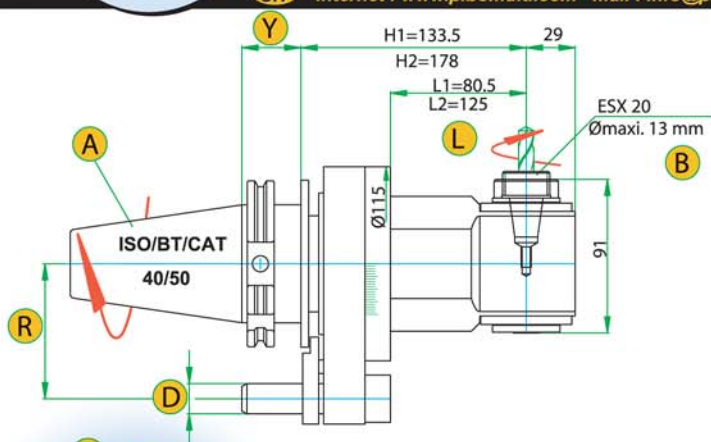
CEP 13 L1 - CEP 13 L2

4'500
rpm

SPECIAL : 6 000 rpm

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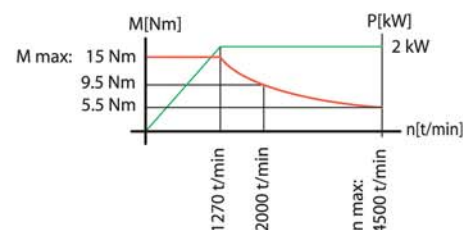
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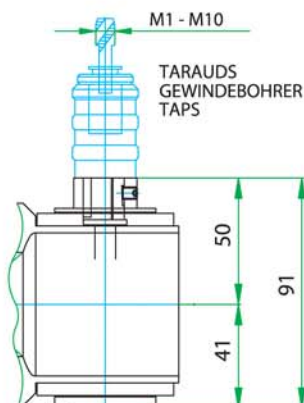
HSK 63/100

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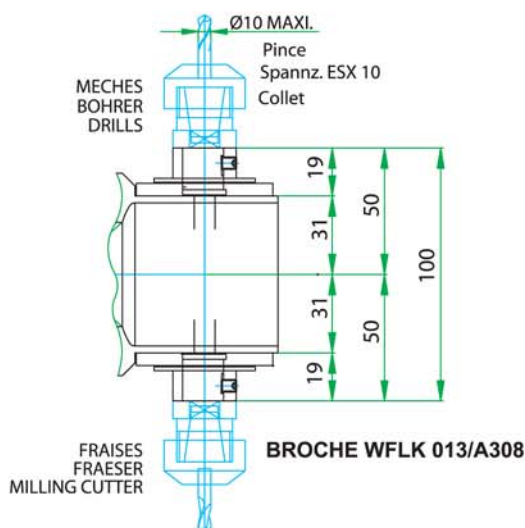
	kW	Nm		kg
4500 t/min u/min rpm	2.0 kW	15 Nm	1 à 1	6 à 10 kg



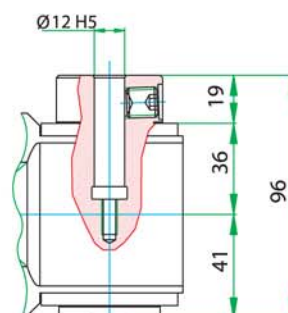
BROCHE WFLK 013/A308



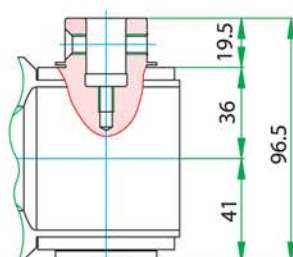
BROCHE WFLK 013/A308



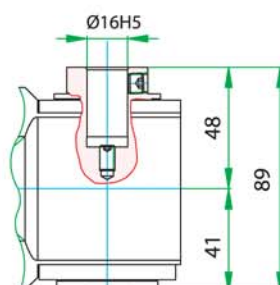
WHISTLE NOTCH DIN 1835-E



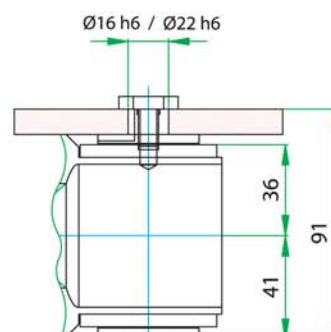
ABS 32



Cyl. Ø16



Cyl. Ø16 OU Cyl. Ø22





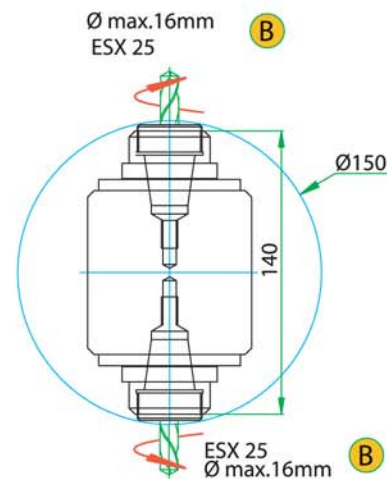
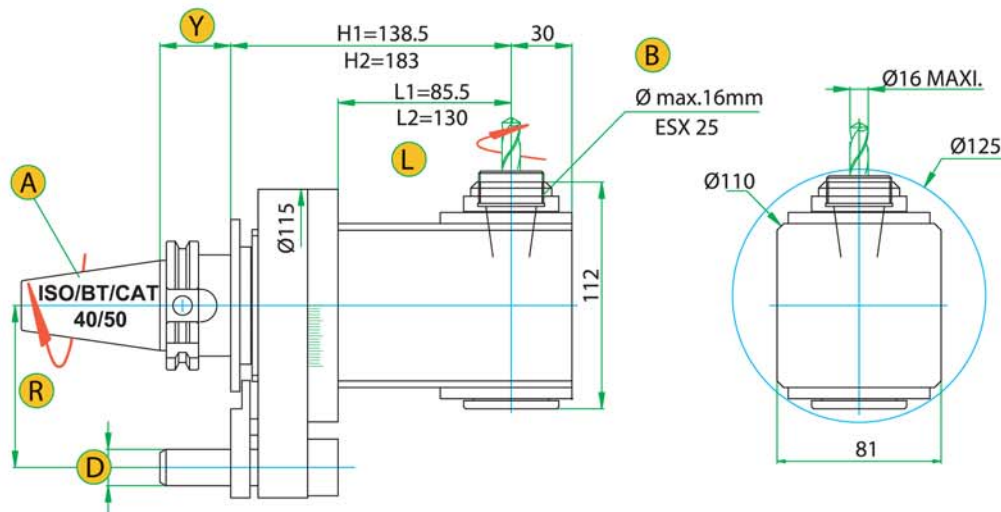
Ø16 / M12
MAXI.

CEP 16 L1 - CEP 16 L2

4'500
rpm

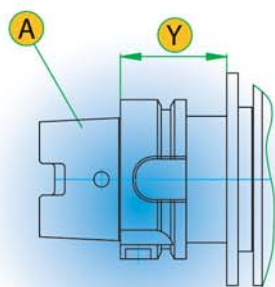
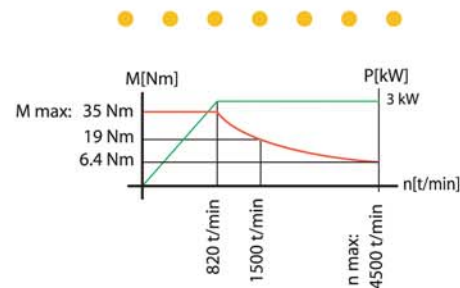
SPECIAL : 5 500 rpm

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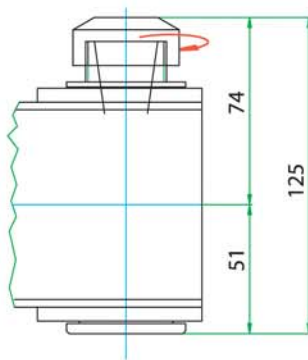
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	kW	Nm		kg
4500 t/min w/min rpm	3.0 kW	35 Nm	1 à 1	6.5 à 11 kg

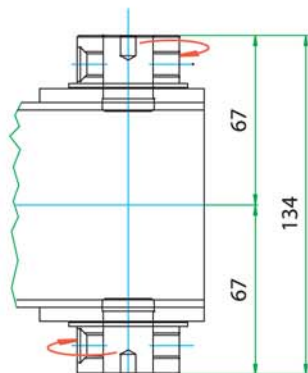


HSK 63/100

ESX 25
Ø MAX 16 mm



ABS 40



ABS 40



CEP 16 HSK



CEP 20 L1

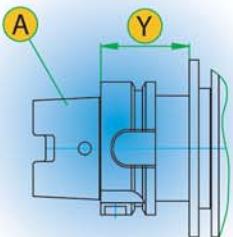
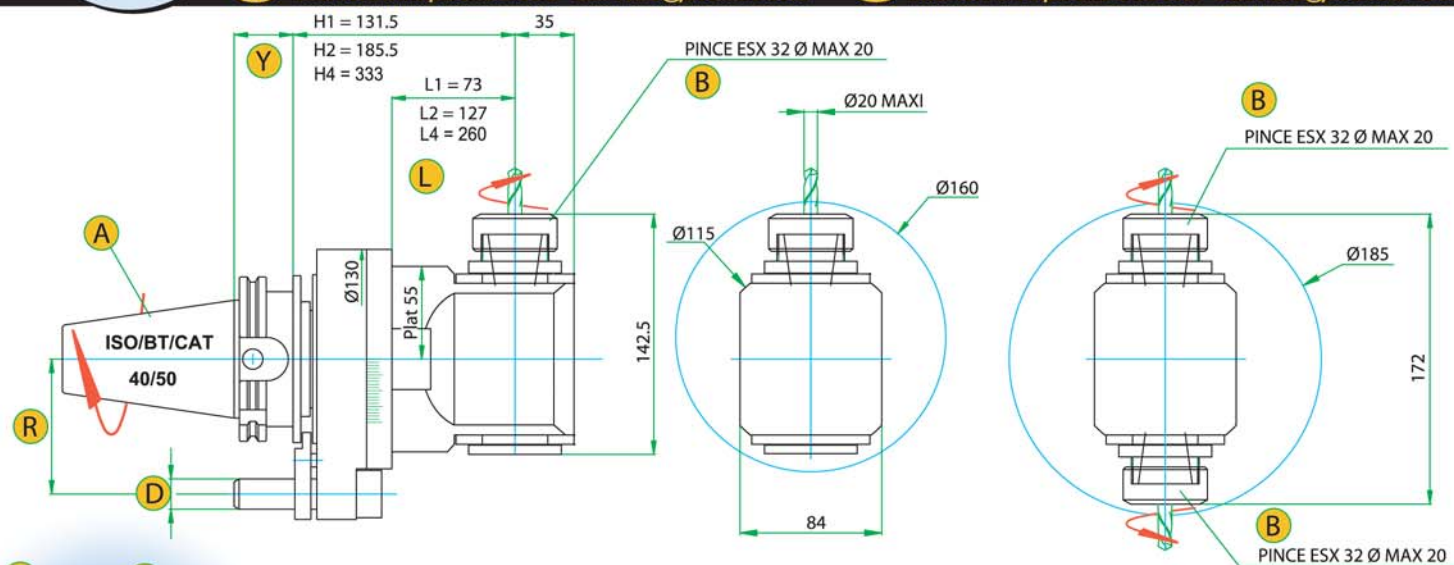
Ø20 / M16
MAXI.

CEP 20 L1 - CEP 20 L2 - CEP 20 L4

3'700 rpm

SPECIAL : 5 000 rpm

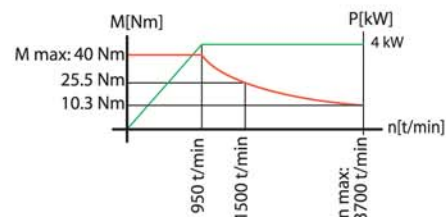
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HSK 63/80/100

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	kW	Nm		kg
3700 t/min u/min rpm	4.0 kW	40 Nm	1 à 1	9 à 13 kg

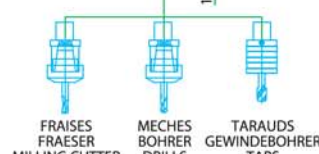
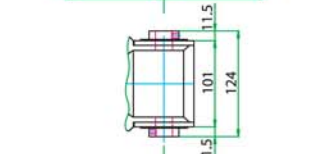
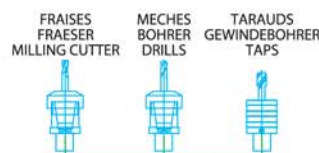
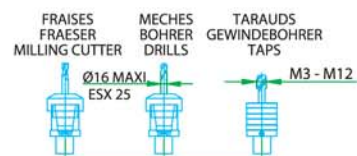


HSK40 MAPAL 64, 120.5, 56.5	BROCHE WELDON 20 Ø52, Ø20H5, 36.5, 107, 143.5	ABS 50 Ø50.4, 36, 107, 143	1 BROCHE
 25.5, 101, 152, 25.5	 Ø52, 41.5, 101, 184, 41.5, Ø52	 Ø50.4, 36, 101, 173, 36, Ø50.4	
 Ø55, 27, 107, 134	BROCHE CM 2 6.5, 107, 113.5	ABS 25 19, 106.5, 162	2 BROCHES
ABS 50 36.5, 101, 124, 11.5	BROCHE CYL. Ø22 OU BROCHE CYL. Ø32 Ø22h6 OU Ø32h6 107, 138.5	BROCHE KM 40 Ø48, 34, 107, 141	

Autres broches sur demande
Andere Spindeln auf Anfrage
Another spindle on request

Porte outil de perçage, fraisage et taraudage
Werkzeughalter zum Bohren, Fräsen und Gewindeschneiden
Tool-holder for drilling, milling and tapping

WFLK 115/A308





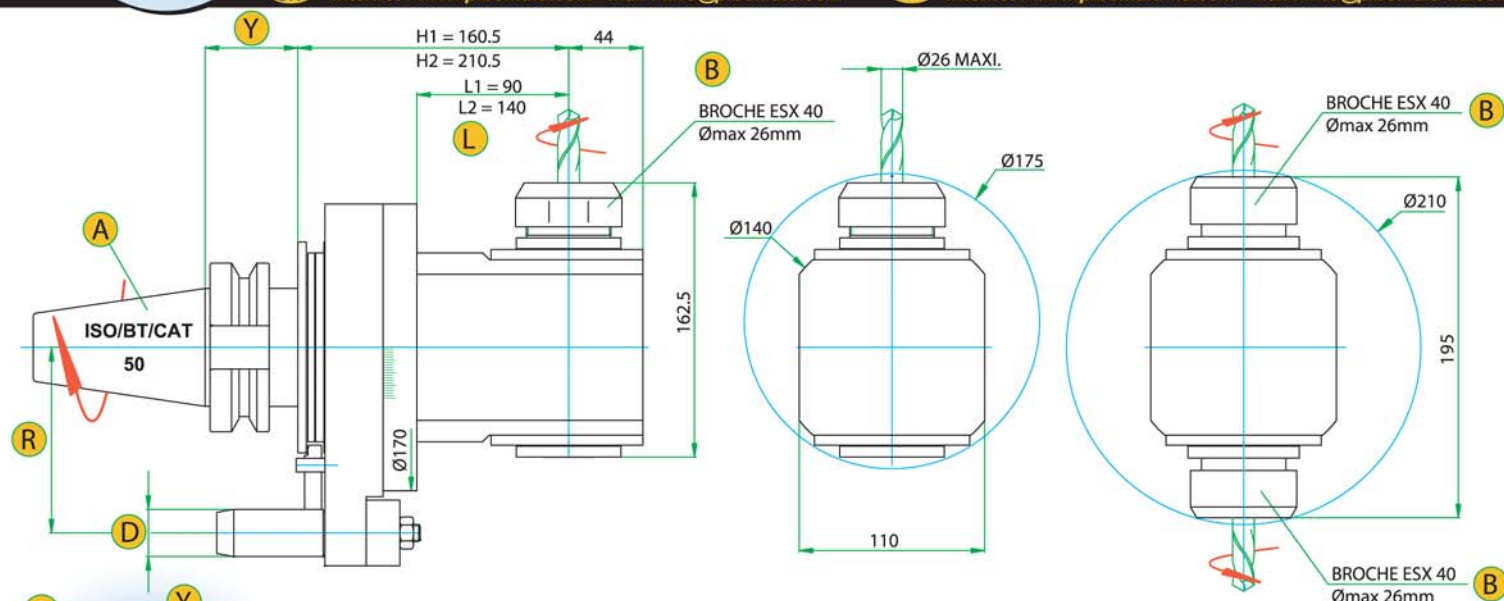
Ø26 / M20
MAXI.

CEP 26 L1 - CEP 26 L2

3'000
rpm

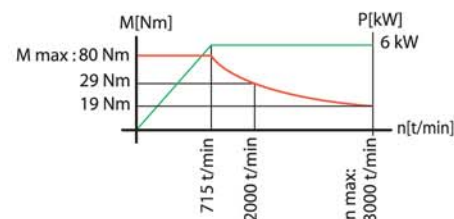
SPECIAL : 4 000 rpm

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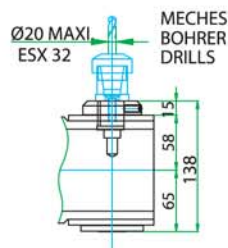
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	kW	Nm		kg
3000 t/min u/min rpm	6.0 kW	80 Nm	1 à 1	≈ 13 à 18 kg

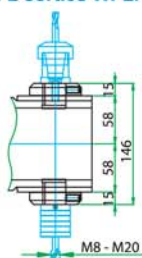


HSK 100

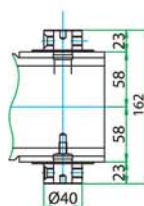
WFLK 225



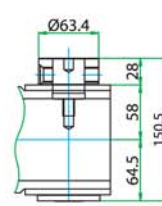
Broche 2 sorties WFLK 225



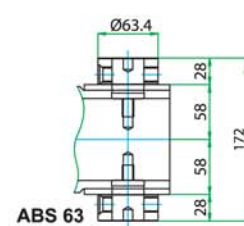
BROCHE ABS 40



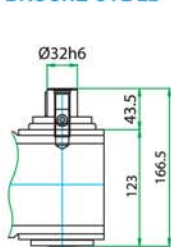
ABS 63



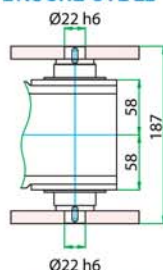
ABS 63



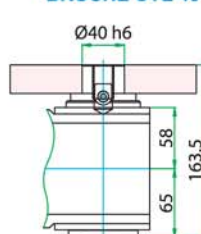
BROCHE CYL 22



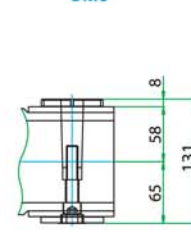
BROCHE CYL 22



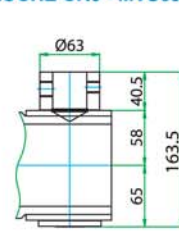
BROCHE CYL 40



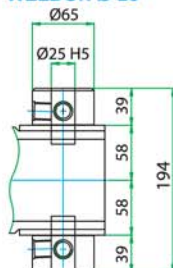
CM3



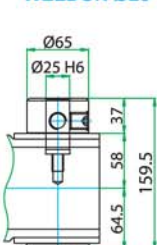
BROCHE CK6 - MVS63-36



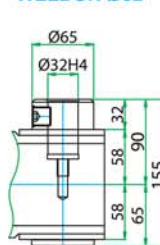
WELDON Ø 25



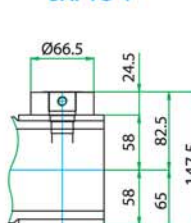
WELDON Ø25



WELDON Ø32



CAPTO-4



Autres broches sur demande
Andere Spindeln auf Anfrage
Another spindle on request

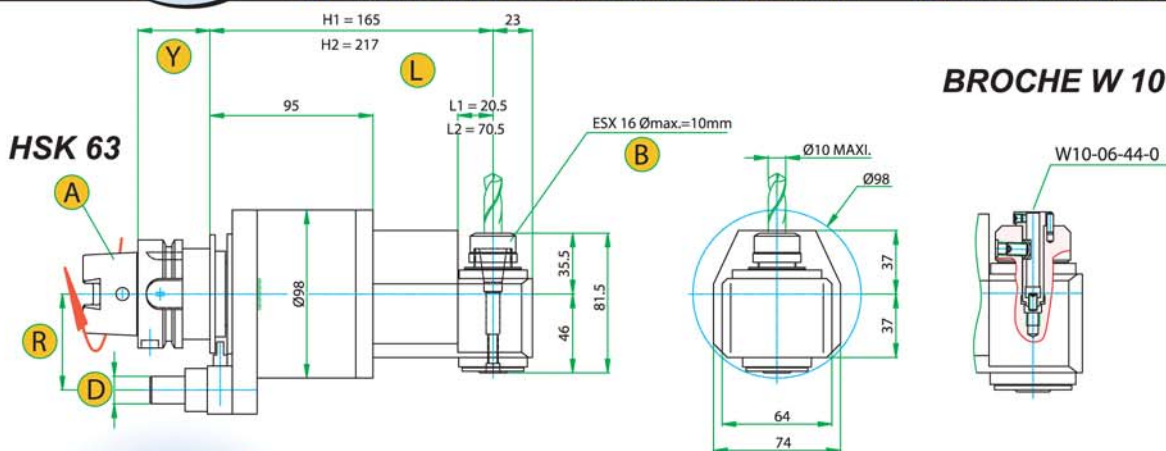
Ø10 / M8
MAXI.

CMP 10 L1 - CMP 10 L2

10'000
rpm

CH internet : www.pibomulti.com mail : info@pibomulti.com

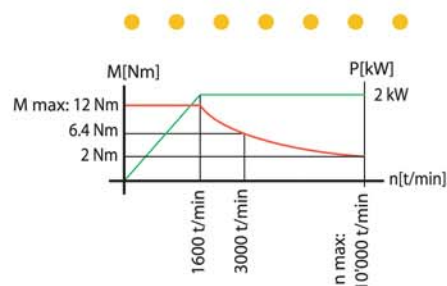
USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST

voir page / siehe Seite / see page 39-40

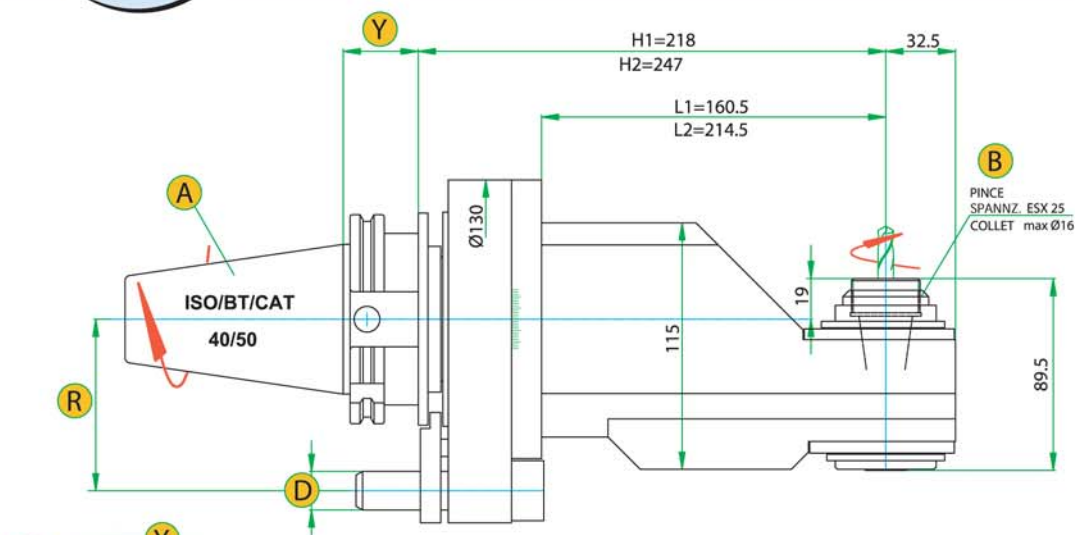
BROCHE SPINDEL SPINDLE	kW	Nm		kg
10000 t/min u/min rpm	2.0 kW	12 Nm	1 à 2.22	5 à 6 kg



Ø16 / M12
MAXI.

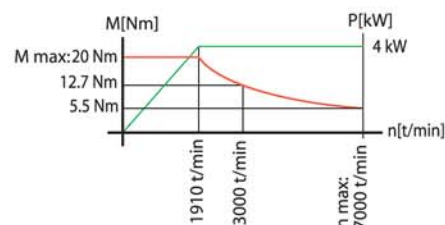
CMP 16 L1 - CMP 16 L2

7'000
rpm



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BROCHE SPINDEL SPINDLE	kW	Nm		kg
7000 t/min u/min rpm	4.0 kW	20 Nm	1 à 2	15 à 17 kg



HSK 63/80/100



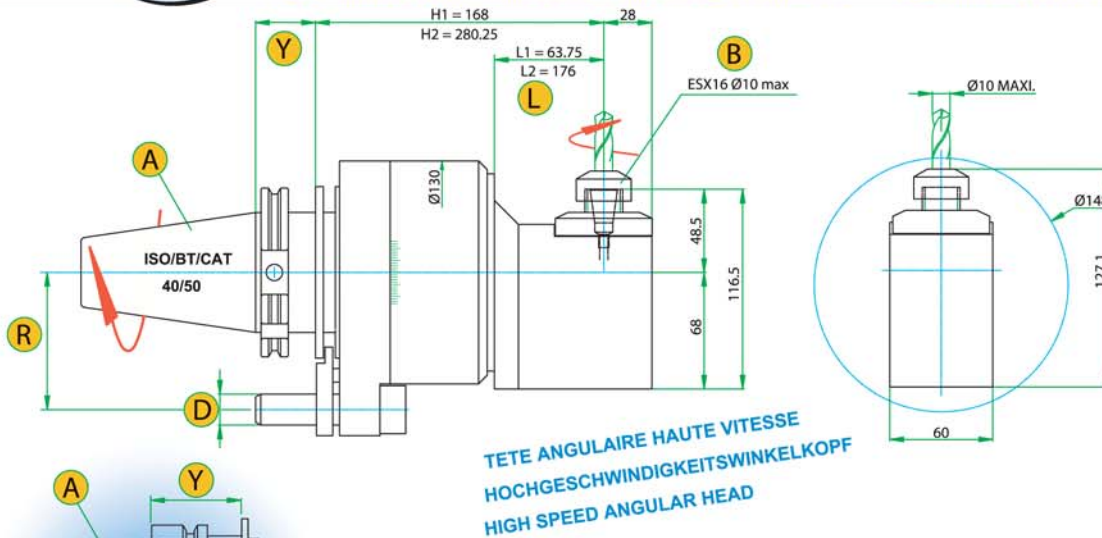
Ø10 / M6
MAXI.

CMP 10X5 L1 - CMP 10X5 L2

18'000
rpm

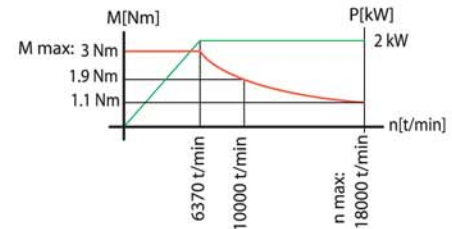
Internet : www.pibomulti.com mail : info@pibomulti.com

USA Internet : www.pibomulti-na.com mail : info@pibomulti-na.com



voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
18000 t/min u/min rpm	2.0 kW	3.0 Nm	1 à 5	≈ 8.5 à 12 kg

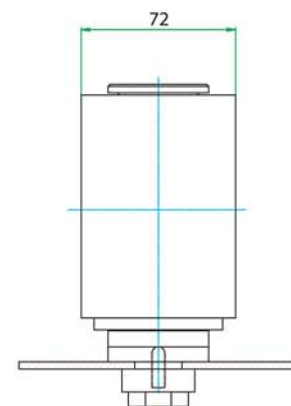
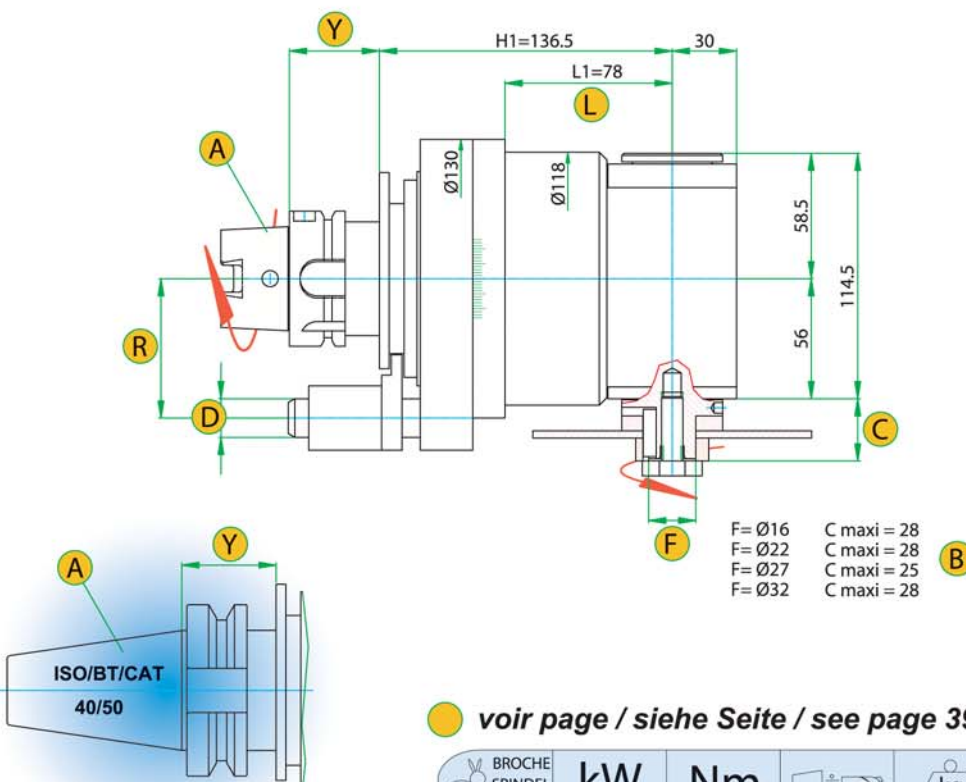


HSK 63/80/100

TETE DE SCIAGE
SÄGEKOPF
SAWING HEAD

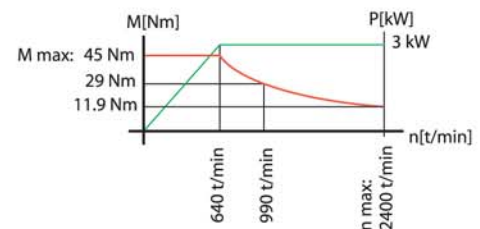
CEF 16/22/27/32

2'400
rpm



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BROCHE SPINDEL SPINDLE	kW	Nm		kg
2400 t/min u/min rpm	3.0 kW	45 Nm	1 à 0.74	≈ 6 à 6.5 kg

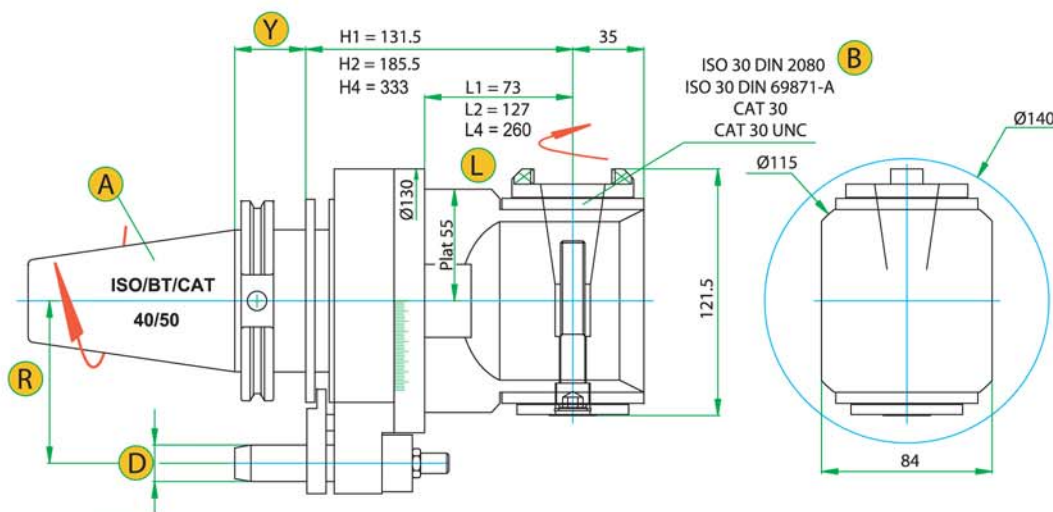


CEC 30 L1 - CEC 30 L2 - CEC 30 L4

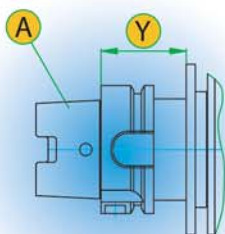
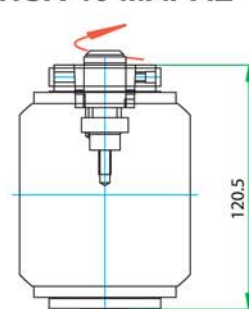
3'700 rpm

SPECIAL : 5 000 rpm

Internet : www.pibomulti.com mail : info@pibomulti.com USA Internet : www.pibomulti-na.com mail : info@pibomulti-na.com



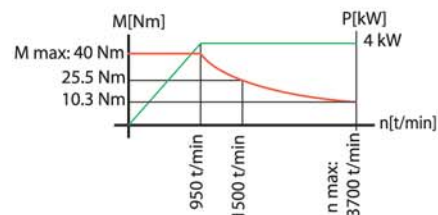
HSK 40 MAPAL



HSK 63/80/100

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	kW	Nm		kg
3700 t/min u/min rpm	4.0 kW	40 Nm	1 à 1	≈ 9 à 13 kg



FRAISES
FRAESER
MILLING CUTTER

MECHES
BOHRER
DRILLS

FRAISES
FRAESER
MILLING CUTTER

MECHES
BOHRER
DRILLS

TARAUDS
GEWINDEBOHRER
TAPS

COURSE
HUB
STROKE

PCM ET-1-32 M4 - M16

PCM ..

ISO 30 / ESX 32 Ømax. 20mm.

ISO 30 / CM 3 max

ISO 30 / ESX 32 Ømax. 20mm.

ISO 30 /

ETC ..
ETC ..
ETC ..



FRAISES
FRAESER
MILLING CUTTER

FRAISES
FRAESER
MILLING CUTTER

MECHES
BOHRER
DRILLS

Ø max. 16mm

PORTE-FRAISE
FRAESDORN
END MILL HOLDER

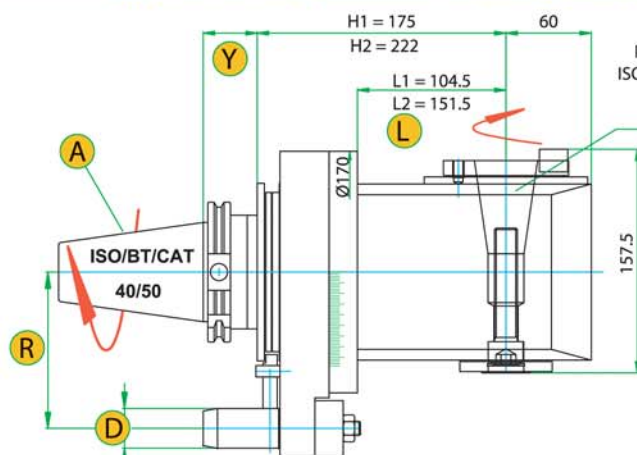
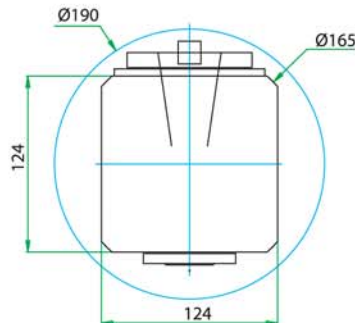
PINCES DUBLOK POUR
OUTIL CYLINDRIQUE

SPANNZANGEN DUBLOK
FÜR ZYLINDERWERKZEUGE
DUBLOK COLLETS FOR
CYLINDRICAL TOOLS

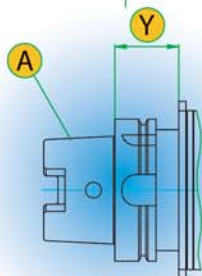
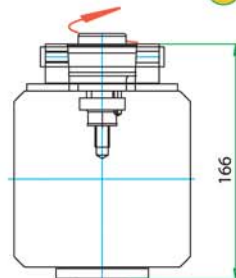
CEC 40 L1 - CEC 40 L2

 3'000
rpm

 internet : www.pibomulti.com mail : info@pibomulti.com

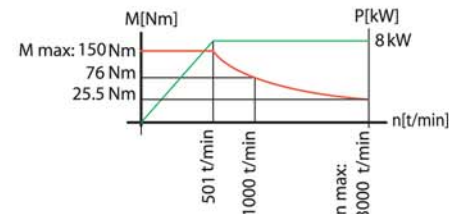
 USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com

 ISO 40 DIN 2080
 ISO 40 DIN 69871-A
 CAT 40
 CAT 40 UNC

HSK 63

B

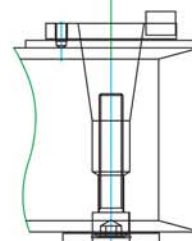
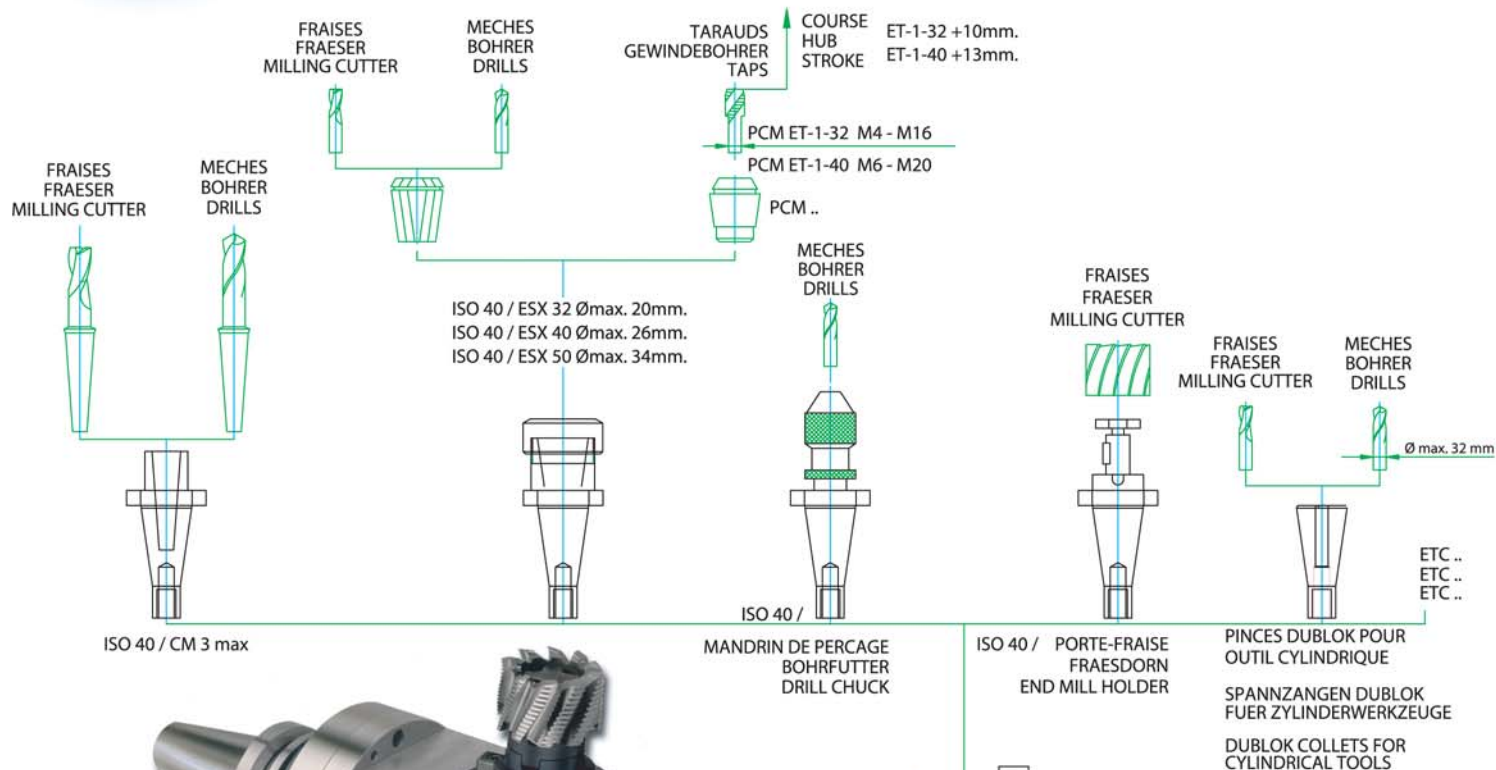


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	kW	Nm		kg
3000 t/min u/min rpm	8.0 kW	150 Nm	1 à 1	≈ 20 à 25 kg



HSK 80/100/125



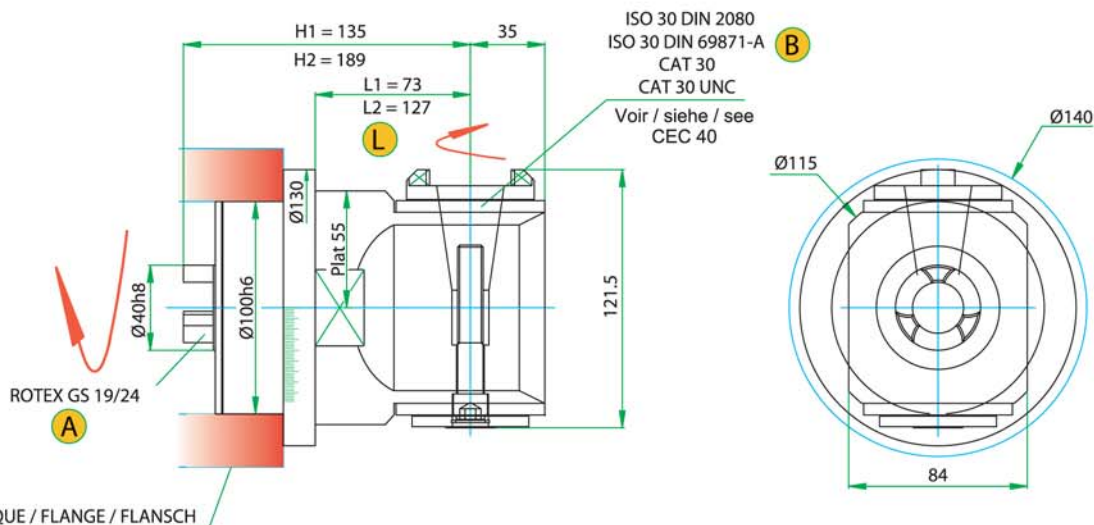
**FLASQUE
FLANGE
FLANSCH**

FEC 30

**3'700
rpm**

SPECIAL : 5 000 rpm

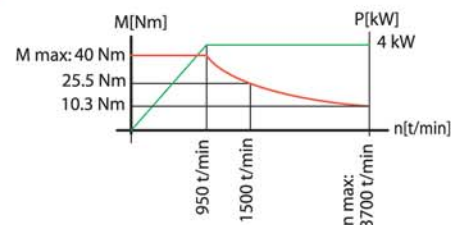
CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



HSK 40 MAPAL

voir page / siehe Seite / see page 39-40

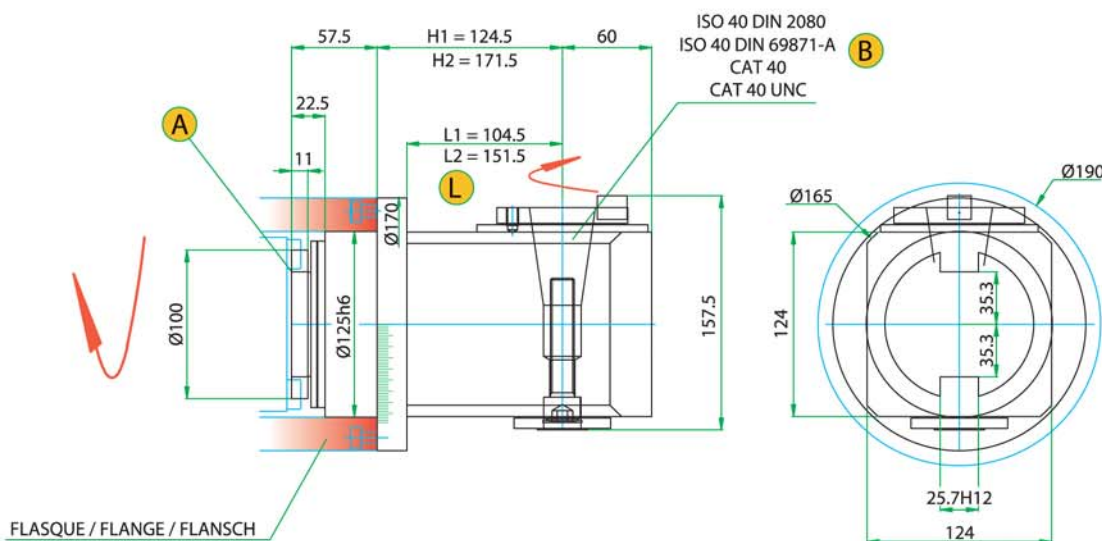
	kW	Nm		kg
3700 t/min u/min rpm	4.0 kW	40 Nm	1 à 1	≈ 9 à 13 kg



**FLASQUE
FLANGE
FLANSCH**

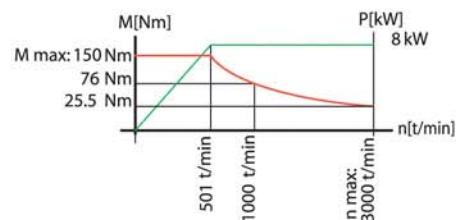
FEC 40

**3'000
rpm**



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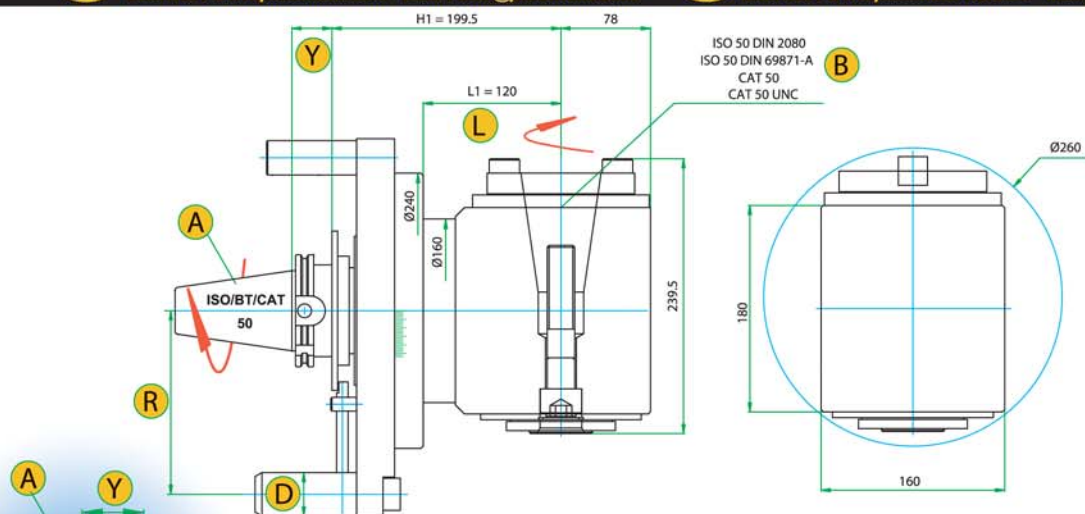
	kW	Nm		kg
3000 t/min u/min rpm	8.0 kW	150 Nm	1 à 1	≈ 20 à 25 kg



CEC 50

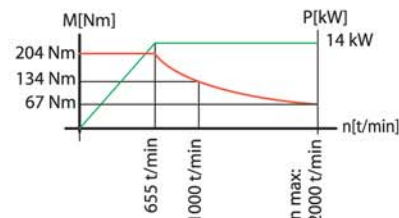
 2'000
rpm

 CH internet : www.pibomulti.com mail : info@pibomulti.com

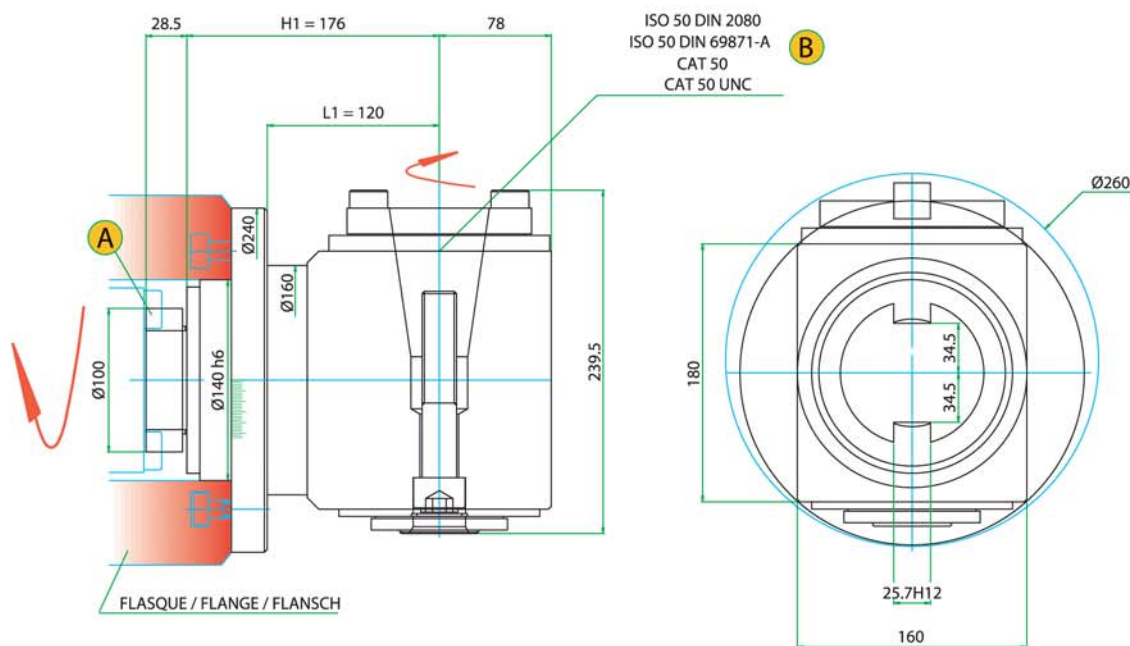
 USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com


voir page / siehe Seite / see page 39-40

	kW	Nm		kg
2000 t/min u/min rpm	14 kW *	204 Nm *	1 à 1	~ 50 kg

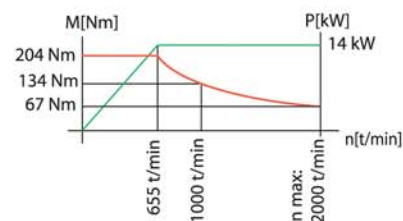
 * Sur demande, avec porte-broche CTAR 50-20, voir page 21
 Auf Anfrage mit Spindelhalter CTAR 50-20, siehe Seite 21
 On request with spindle holder CTAR 50-20, see page 21

HSK 100/125
**FLASQUE
FLANGE
FLANSCH**

FEC 50

 2'000
rpm


voir page / siehe Seite / see page 39-40

	kW	Nm		kg
2000 t/min u/min rpm	14 kW	204 Nm	1 à 1	~ 50 kg

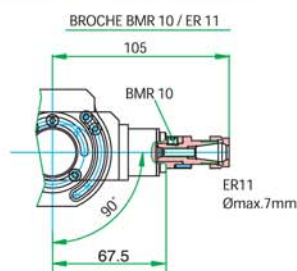
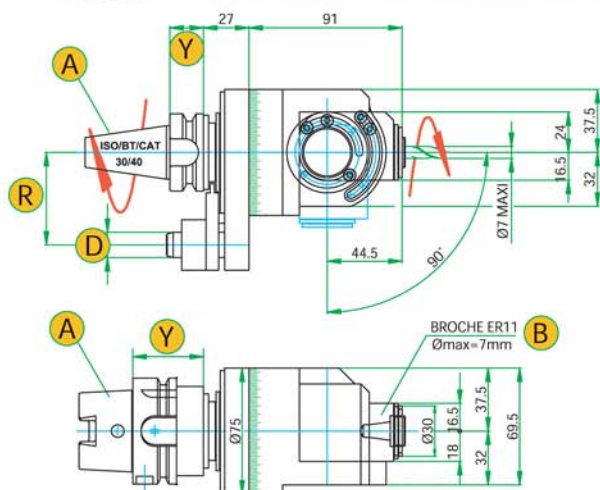


Ø7 / M4
MAXI.

CTAR 07

10'000
rpm

internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



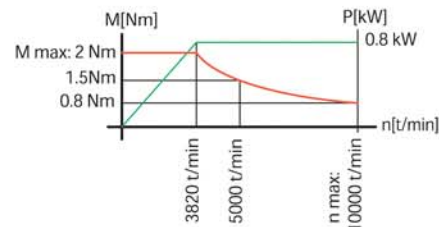
**A CHANGEMENT RAPIDE
SCHNELLWECHSEL
QUICK CHANGE**

HSK 40/50/63

voir page / siehe Seite / see page 39-40

AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST

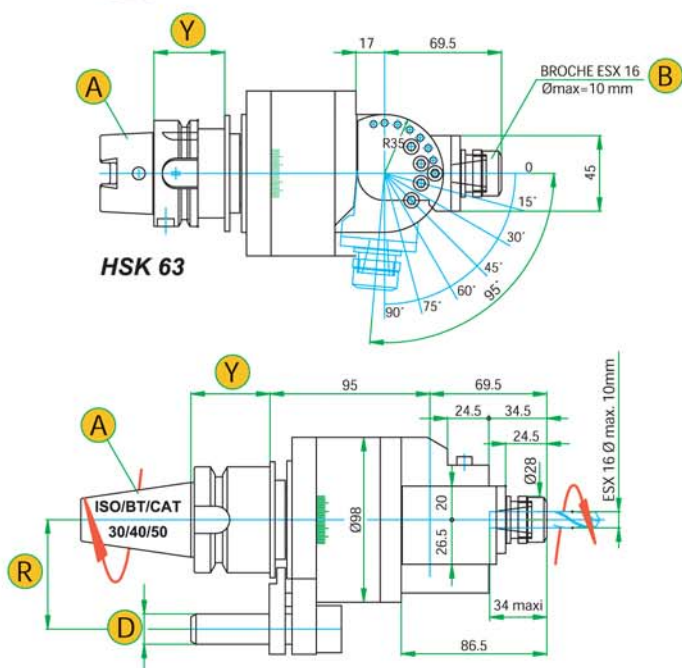
BROCHE SPINDEL SPINDLE	kW	Nm		kg
10000 t/min u/min rpm	0.8 kW	2 Nm	1 à 3.2	≈ 3 à 4 kg



Ø10 / M6
MAXI.

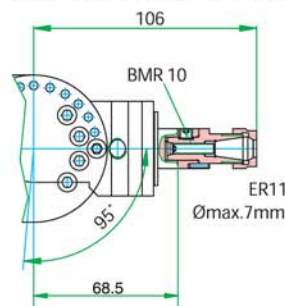
CTAR10

7'000
rpm

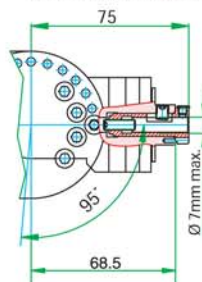


HSK 63

BROCHE BMR 10 / ER 11



BROCHE BMR 10
DOUILLE W07-11-38

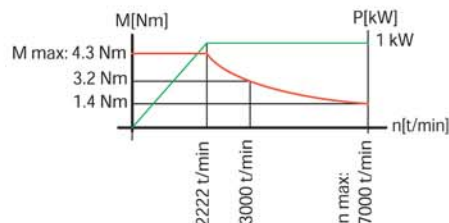


**A CHANGEMENT RAPIDE
SCHNELLWECHSEL
QUICK CHANGE**

AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST

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BROCHE SPINDEL SPINDLE	kW	Nm		kg
7000 t/min u/min rpm	1.0 kW	4.3 Nm	1 à 2	≈ 6.5 à 7.5 kg



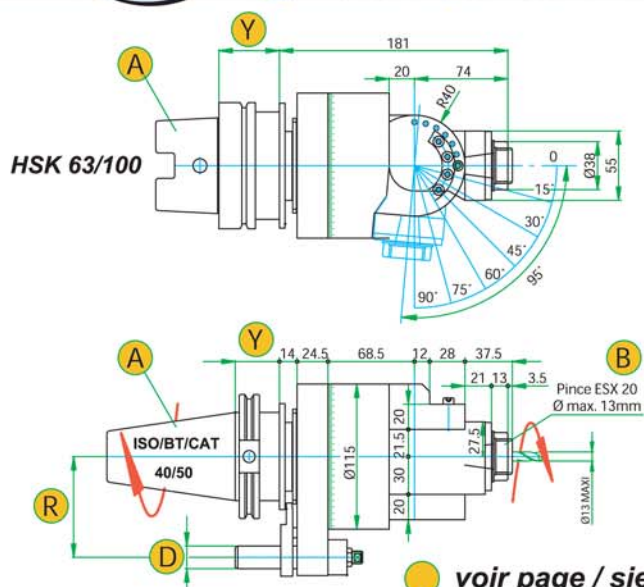
Ø13 / M8
MAXI.

CTAR 13

5'000 rpm

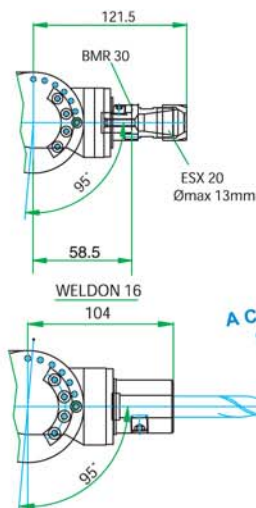
SPECIAL : 6 000 rpm

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**AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST**

BMR 30 / ESX 20 Ø Max. 13 mm

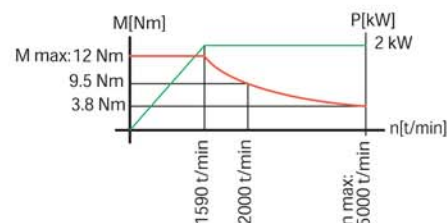


A CHANGEMENT RAPIDE
SCHNELLWECHSEL
QUICK CHANGE



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 BROCHE SPINDEL SPINDELE	kW	Nm		 kg
5000 t/min u/min rpm	2.0 kW	12 Nm	1 à 1.6	12 à 14 kg

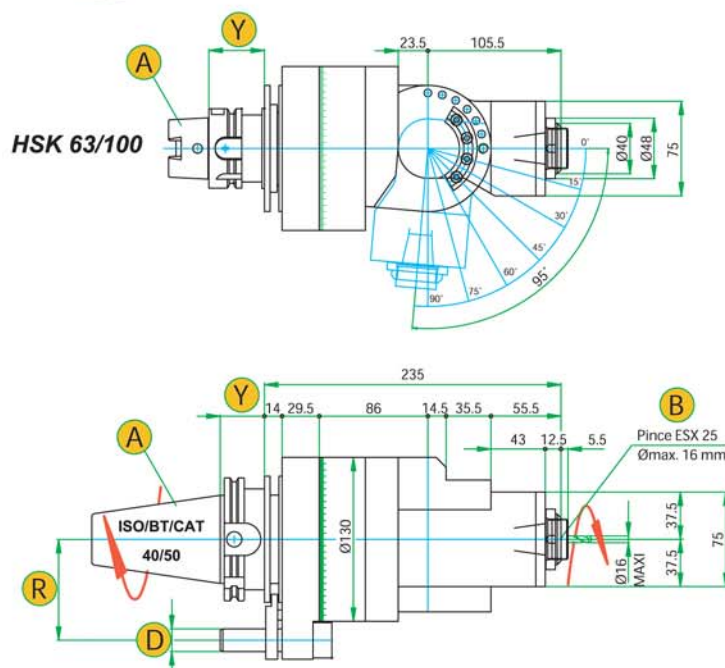



Ø16 / M12
MAXI.

CTAR 16

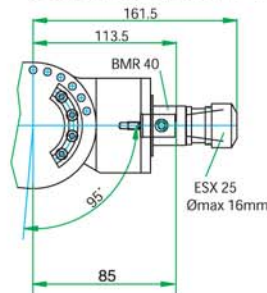
4'500 rpm

SPECIAL : 5 500 rpm



**AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST**

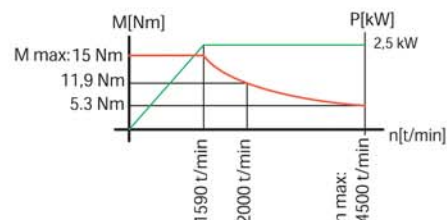
BMR 40 / ESX 25 Ø Max. 16 mm



**A CHANGEMENT RAPIDE
SCHNELLWECHSEL
QUICK CHANGE**

voir page / siehe Seite / see page 39-40

	kW	Nm		
4500 t/min w/min rpm	2.5 kW	15 Nm	1 à 1.39	≈ 17 kg





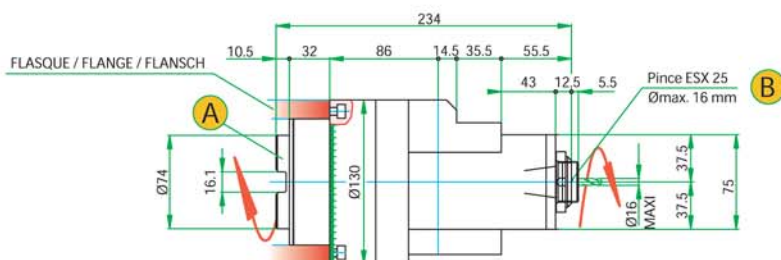
FLASQUE
FLANGE
FLANSCH

FTAR 16

4'500 rpm

SPECIAL : 5 500 rpm

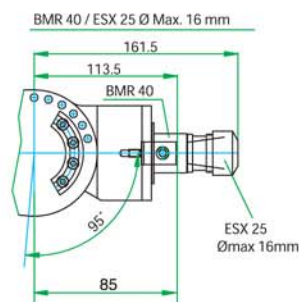
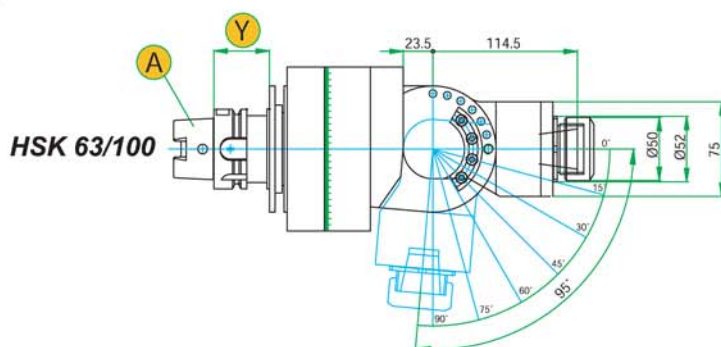
CH internet : www.pibomulti.com mail : info@pibomulti.com **USA** internet : www.pibomulti-na.com mail : info@pibomulti-na.com



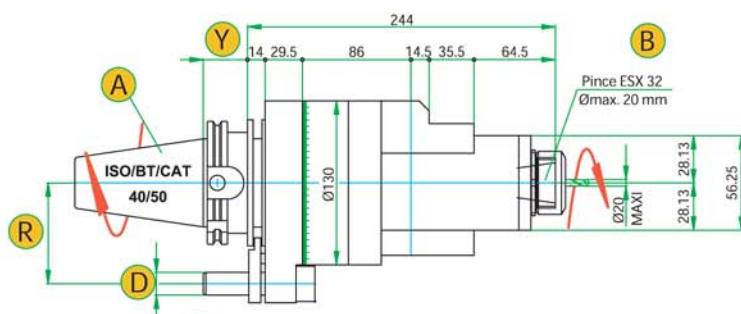
CTAR 20

4'500 rpm

SPECIAL : 5 500 rpm



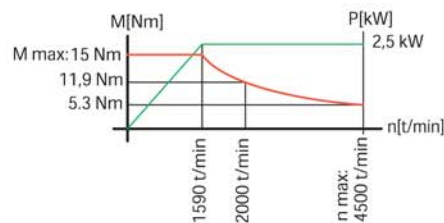
**A CHANGEMENT RAPIDE
SCHNELLWECHSEL
QUICK CHANGE**



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**AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST**

 BROCHE SPINDEL SPINDLE	 kW	 Nm	 t/min u/min rpm	 kg
4500	2.5 kW	15 Nm	1 à 1.39	17 kg

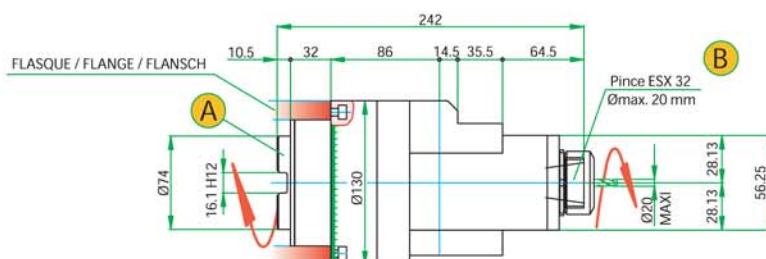


FLASQUE
FLANGE
FLANSCH

FTAR 20

4'500 rpm

SPECIAL : 5 500 rpm

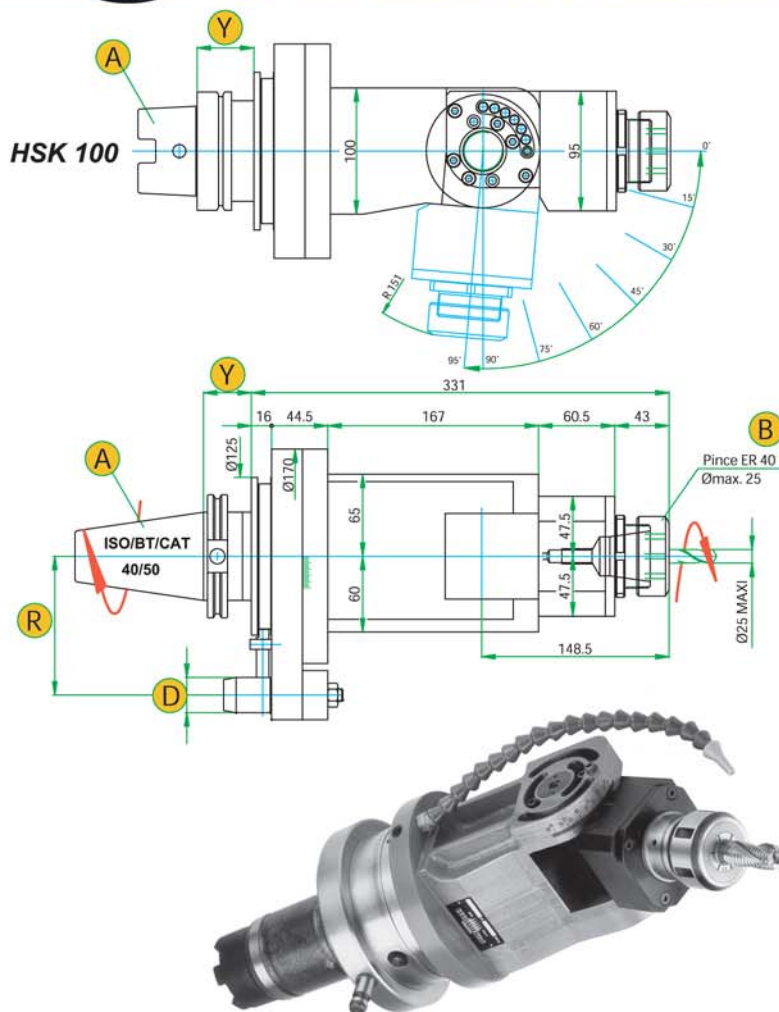


Ø25 / M20
MAXI.

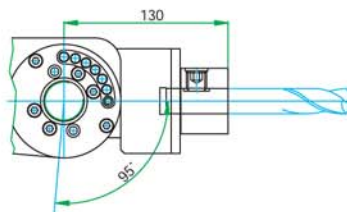
CTAR 25

3'000
rpm

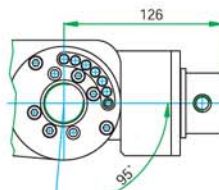
internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



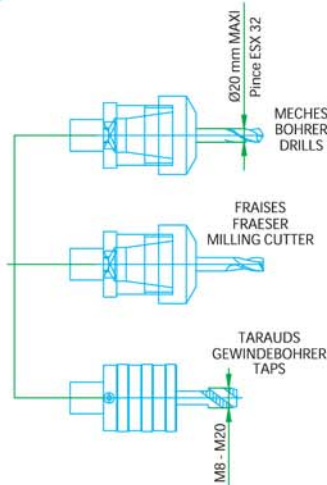
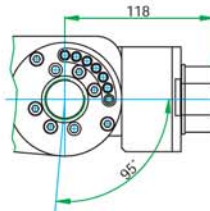
WELDON 20



KM 40



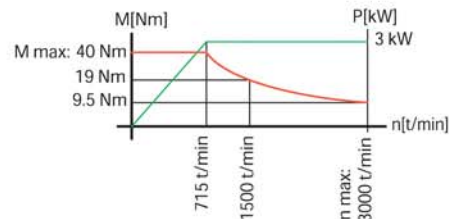
WFLK 225



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AUTRE BROCHE SUR DEMANDE
ANDERE SPINDELN AUF ANFRAGE
ANOTHER SPINDLE ON REQUEST

BROCHE SPINDEL SPINDEL	kW	Nm		kg
3000 t/min w/min rpm	3.0 kW	40 Nm	1 à 1	30 à 33 kg

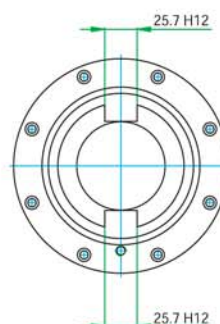
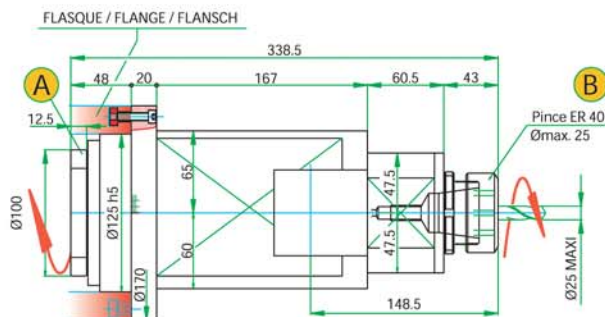


Ø25 MAXI.

FLASQUE
FLANGE
FLANSCH

FTAR 25

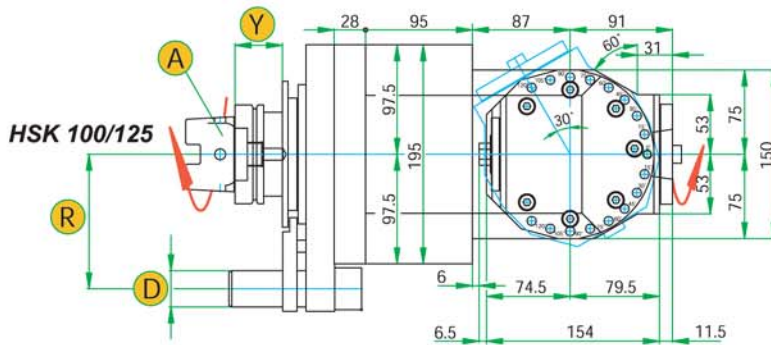
3'000
rpm



CTAR 40 / CTARH 40

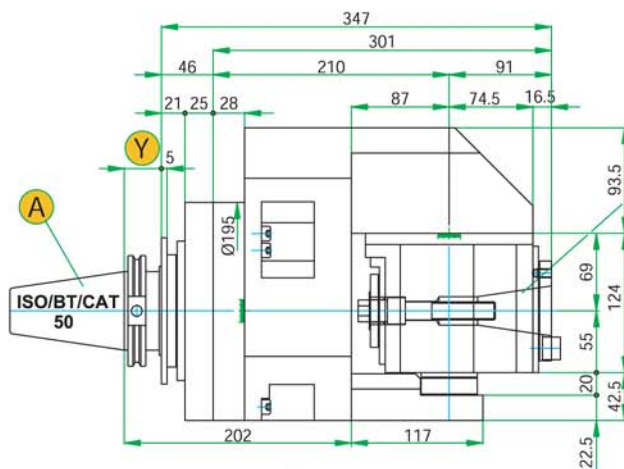
3'000 rpm

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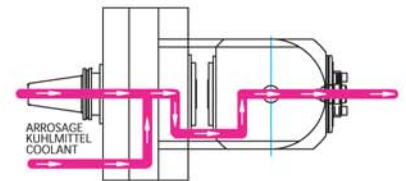


CTAR 40
GOUPILLE D'INDEXION PAS 15°
INDEXIERUNGSTIFT TEILUNG 15°
LOCATION PIN THREAD 15°

CTARH 40
DENTURE HIRTH 360° PAS 2.5°
HIRTH-VERZÄHNUNG 360° TEILUNG 2.5°
HIRTH-COUPLING 360° THREAD 2.5°



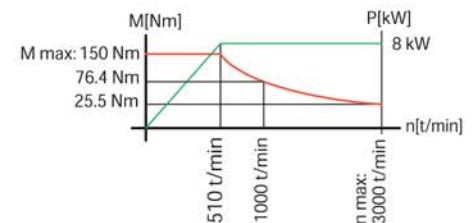
HSK 63 SUR DEMANDE
AUF ANFRAGE - ON REQUEST



ARROSAGE CENTRAL
INNERE KÜHLMITTELZUFUHR
COOLANT THROUGH CENTRE

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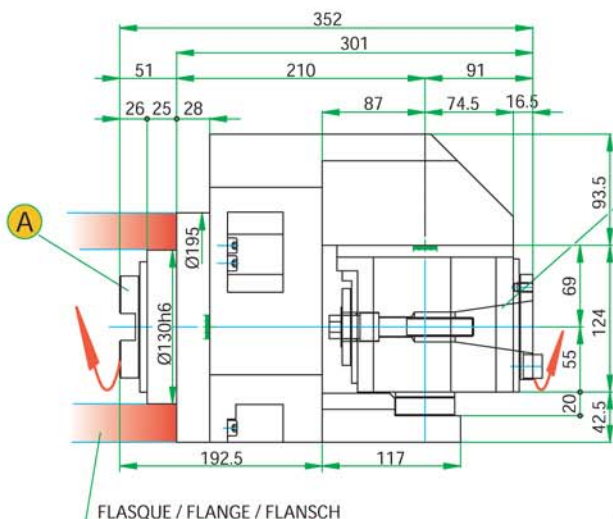
BROCHE SPINDEL SPINDLE	kW	Nm		kg
3000 t/min u/min rpm	8.0 kW	150 Nm	1 à 1.5	≈ 45 kg



FLASQUE
FLANGE
FLANSCH

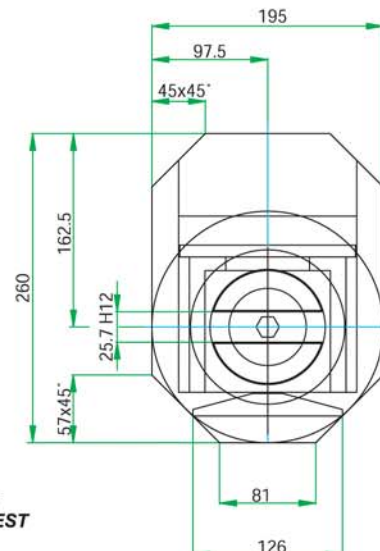
FTAR 40 / FTARH 40

3'000 rpm



ISO 40 DIN 2080
ISO 40 DIN 69871-A
BT 40
CAT 40
CAT 40 UNC

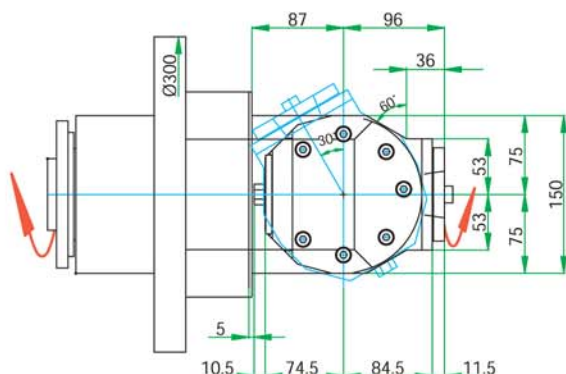
HSK 63 SUR DEMANDE
AUF ANFRAGE - ON REQUEST



FTAR 40 - 2.5 / FTARH 40 - 2.5

4'500 rpm

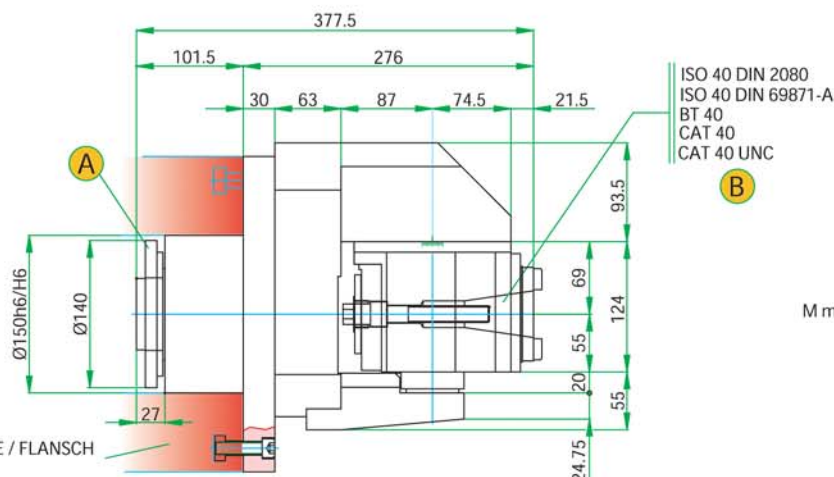
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 Voir / siehe / see
CTAR 40

CTAR 40

 GOUPILLE D'INDEXION PAS 15°
 INDEXIERUNGSTIFT TEILUNG 15°
 LOCATION PIN THREAD 15°

 $\pm 120^\circ$ OU

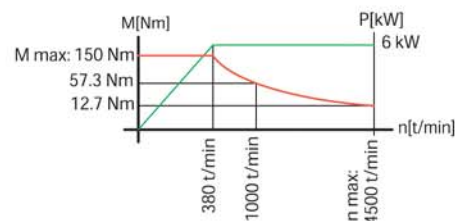
CTARH 40

 DENTURE HIRTH 360° PAS 2.5°
 HIRTH-VERZÄHNUNG 360° TEILUNG 2.5°
 HIRTH-COUPPLING 360° THREAD 2.5°


FLASQUE / FLANGE / FLANSCH

 ISO 40 DIN 2080
 ISO 40 DIN 69871-A
 BT 40
 CAT 40
 CAT 40 UNC

B

 HSK 63 SUR DEMANDE
 AUF ANFRAGE - ON REQUEST


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BROCHE SPINDEL SPINDLE	kW	Nm		kg
4500 t/min w/min rpm	6.0 kW	150 Nm	1 à 2.5	≈ 50 kg


FTAR 40

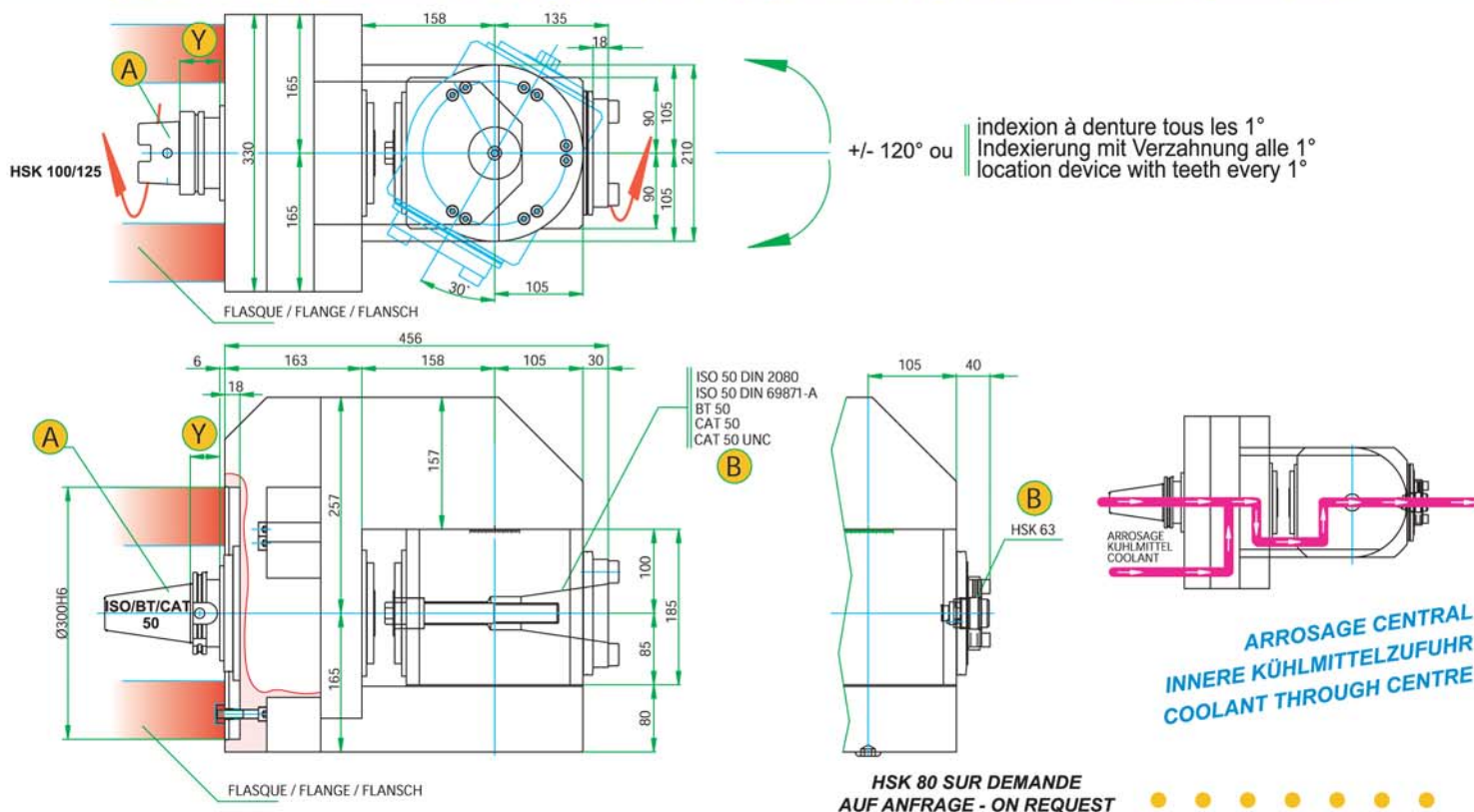
CTAR 50

FTAR 50

CTARH 50-20 1'800 rpm

CTARH 50-20-2 3'600 rpm

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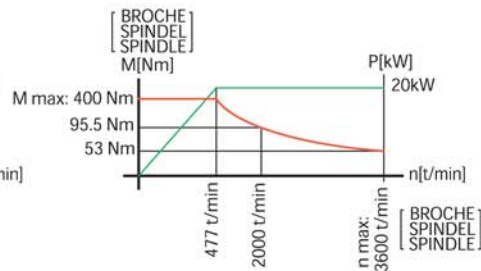
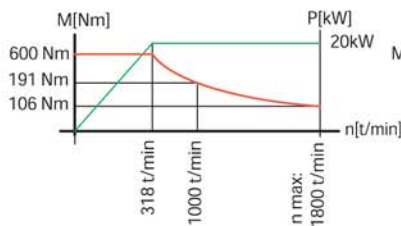


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CTAR 50-20

CTAR 50-20-2

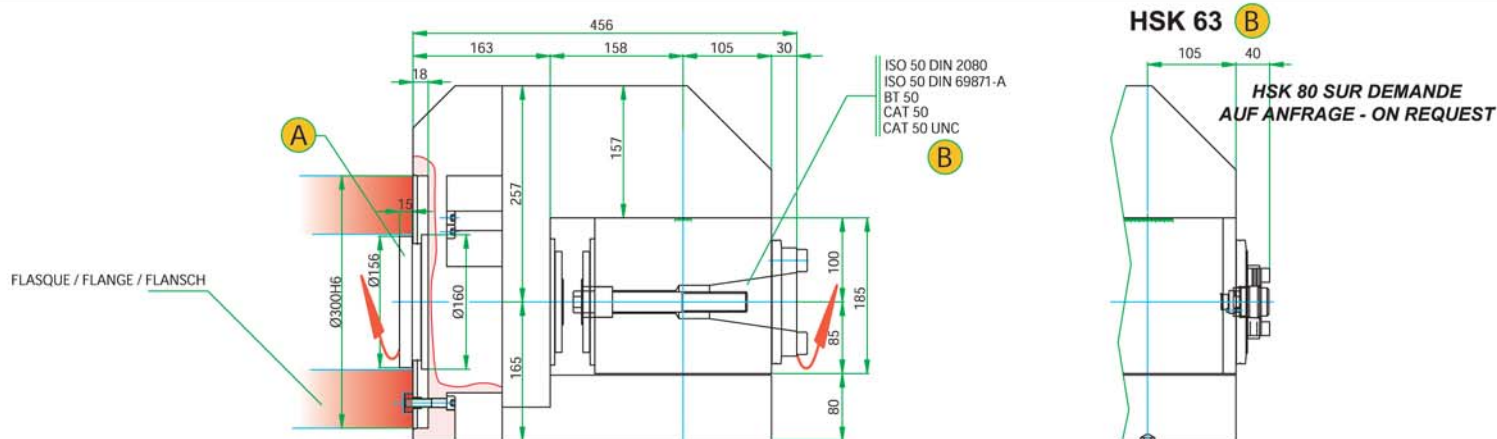
	1 CTAR 50-20	2 CTAR 50-20-2
BROCHE SPINDEL SPINDLE		
kW	20 kW	20 kW
Nm	600 Nm	400 Nm
kg	200 kg	200 kg
T/min w/min rpm	1800	3600
	1 à 1	1 à 2



**FLASQUE
FLANGE
FLANSCH**

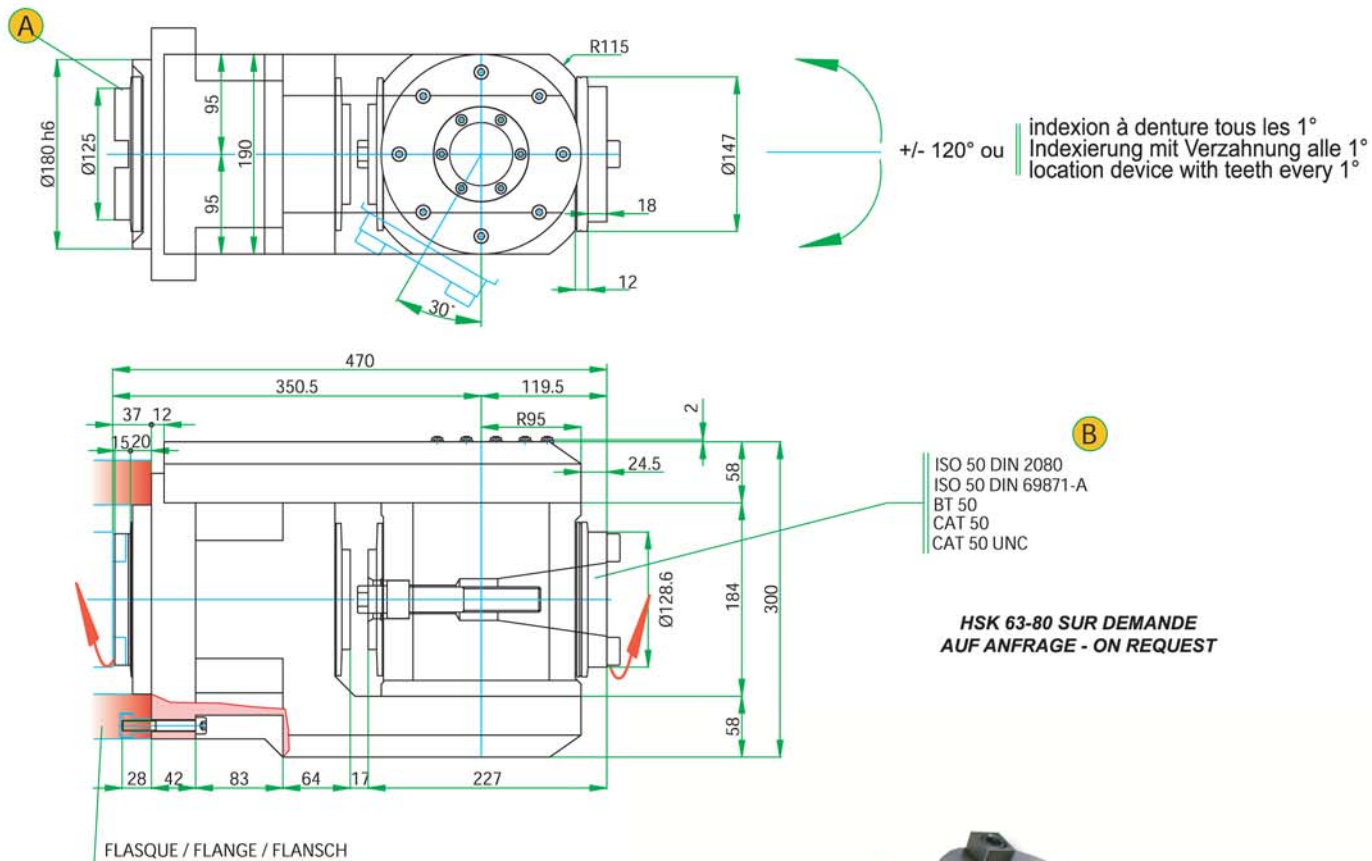
FTARH 50-20 1'800 rpm

FTARH 50-20-2 3'600 rpm



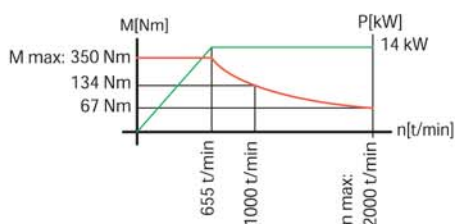
FLASQUE
FLANGE
FLANSCH
FTARH 50-14
2'000
rpm

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BROCHE SPINDEL SPINDLE	kW	Nm		
2000 t/min u/min rpm	14 kW	350 Nm	1 à 1	≈ 140 kg



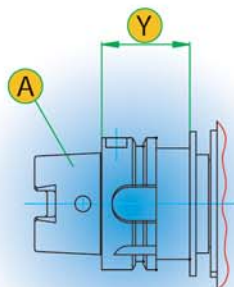


Ø2 MAXI.

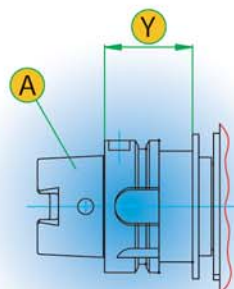
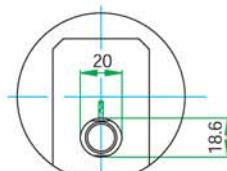
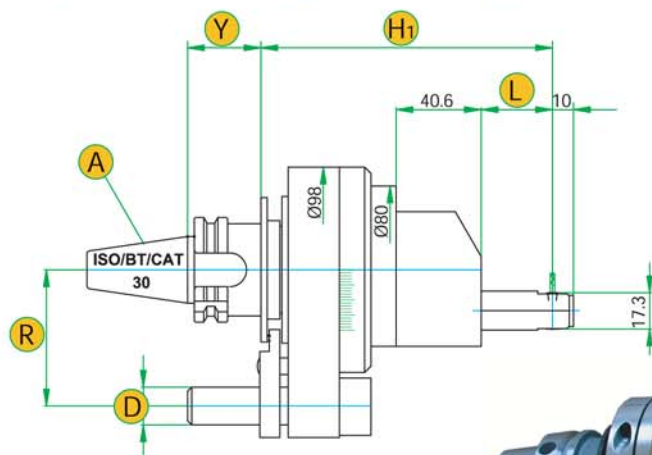
CDP 02 L1/L2/L3/L...

8'000
rpm

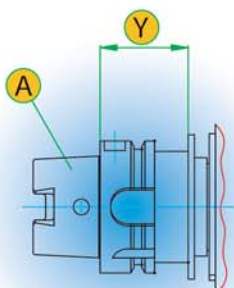
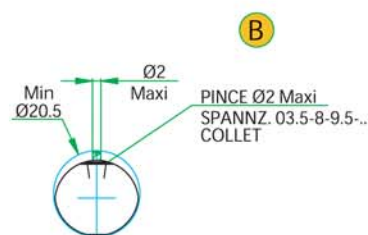
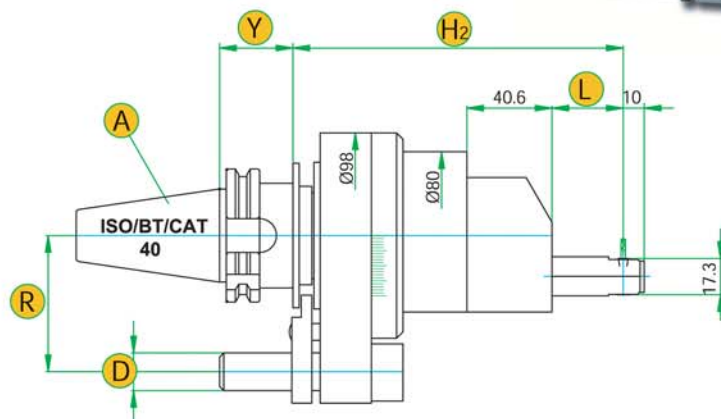
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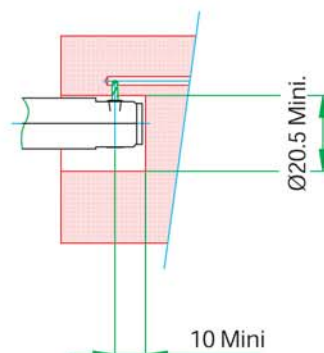
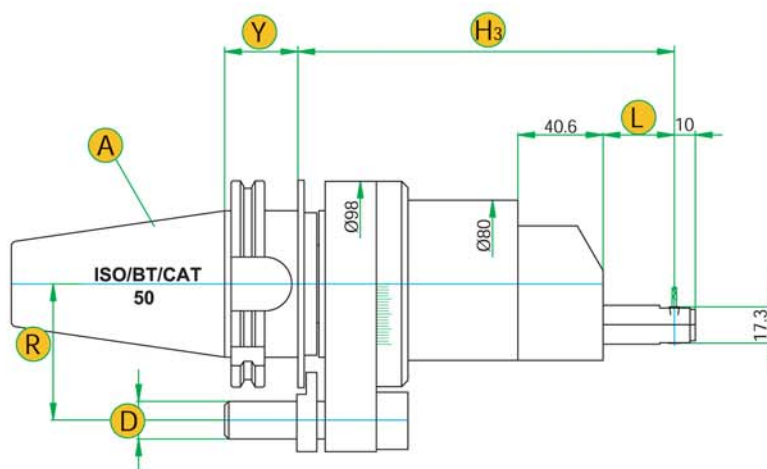
HSK 40 A
HSK 50 A
HSK 63 A



HSK 50 A
HSK 63 A



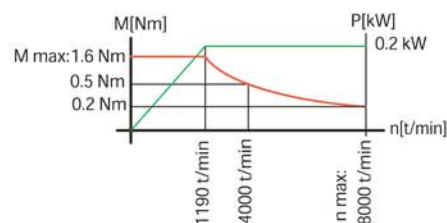
HSK 63 A
HSK 80 A
HSK 100 A



	L	H1	H2	H3
L1	34	139.1	157.6	179.6
L2	49.5	154.6	173.1	195.6
L3	65	170.1	188.6	210.6

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BROCHE SPINDEL SPINDLE	kW	Nm	kg
8000 t/min u/min rpm	0.2 kW	1.6 Nm	1 à 2.5 ≈ 3 à 4 kg

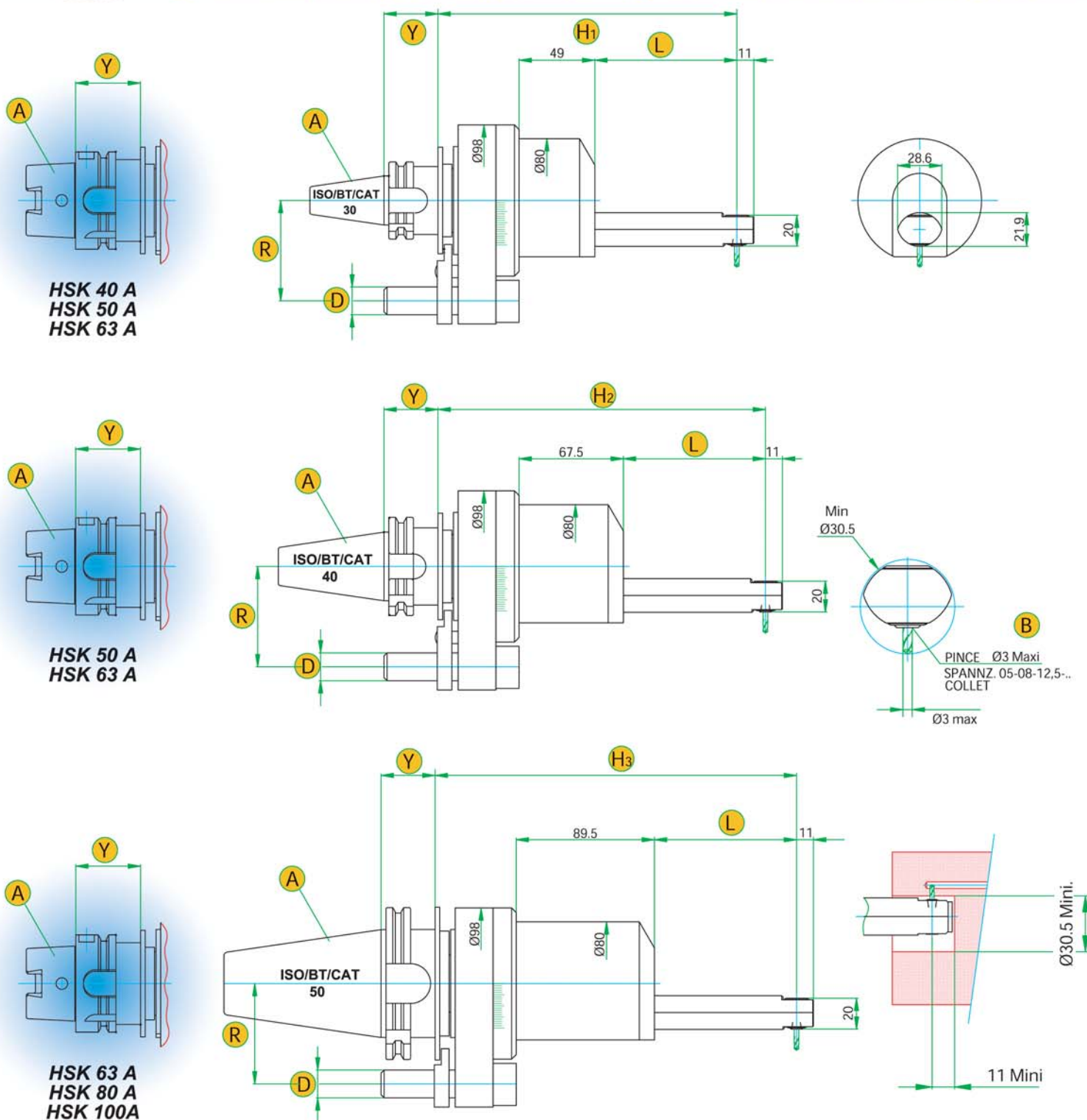




CDP 03 L1/L2/L3/L...

6'000
rpm

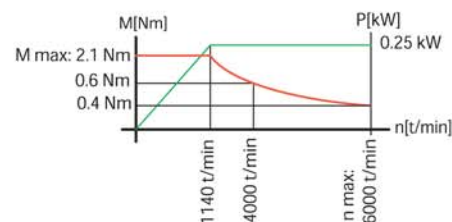
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	L	H1	H2	H3
L1	50	151.5	170	192
L2	71	172.5	191	213
L3	79.5	181	199.5	221.5
L4	92	193.5	212	234
L5	112	214.5	233	255
L6	134	235.5	254	276

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BROCHE SPINDEL SPINDLE	kW	Nm	kg
6000 t/min u/min rpm	0.25 kW	2.1 Nm	1 à 3 ≈ 3 à 4 kg

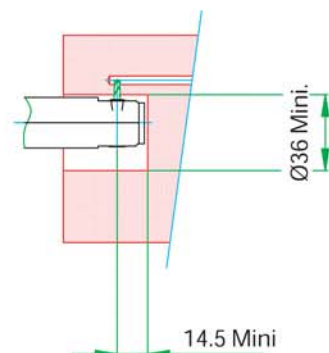
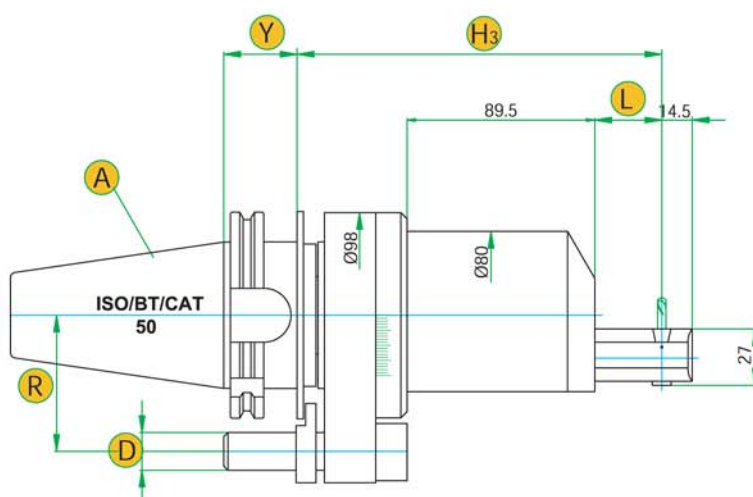
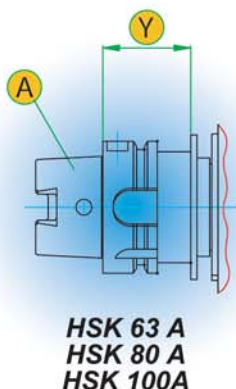
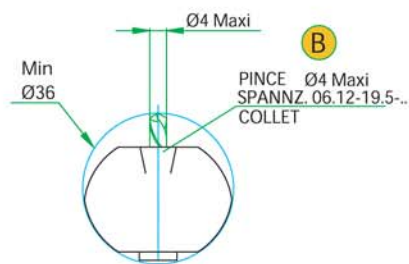
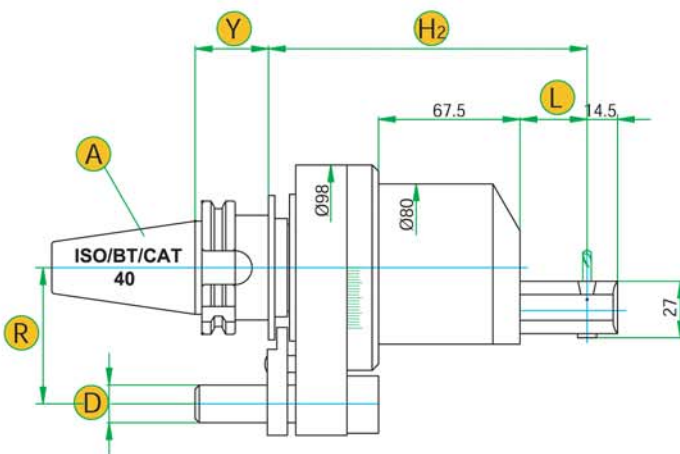
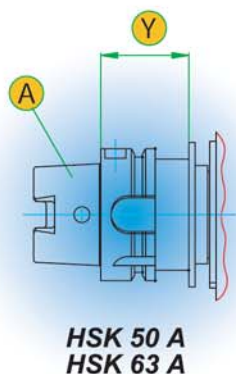
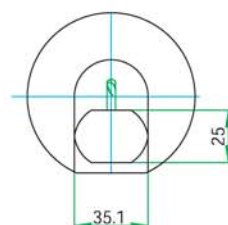
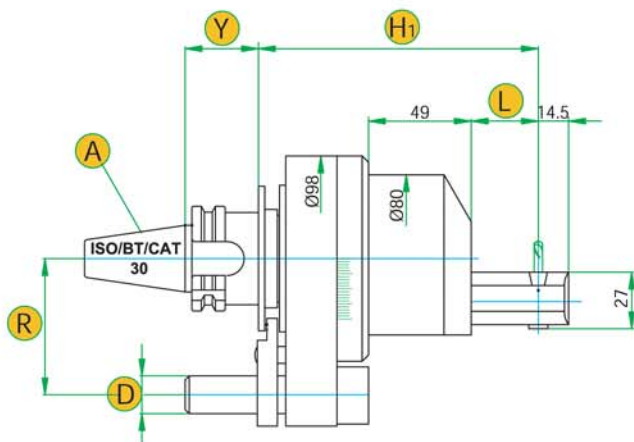
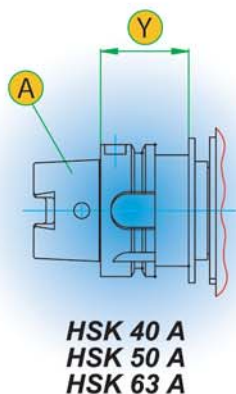




CDP 04 L1/L2/L3/L...

8'000 rpm

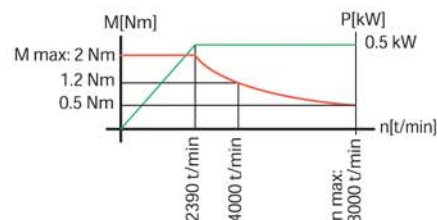
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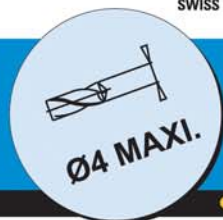


	L	H1	H2	H3
L1	32	133.5	152	174
L2	56	157.5	176	198
L3	80	181.5	200	222
L4	104	205.5	224	246

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BROCHE SPINDEL SPINDLE	kW	Nm		
8000 t/min u/min rpm	0.5 kW	2.0 Nm	1 à 3	≈ 3.5 à 4.5 kg

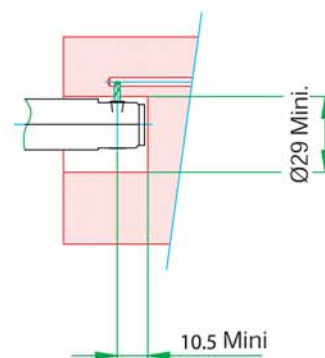
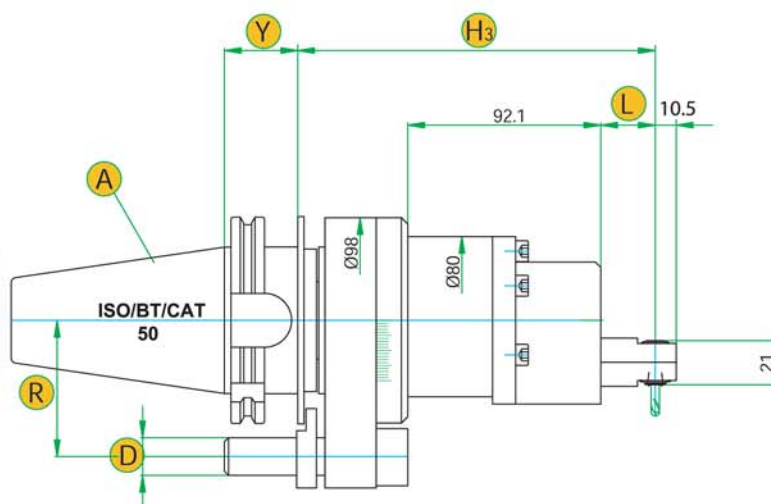
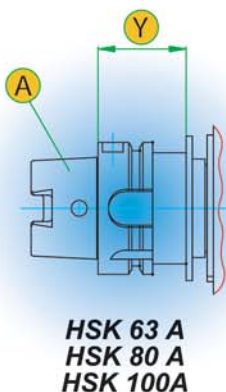
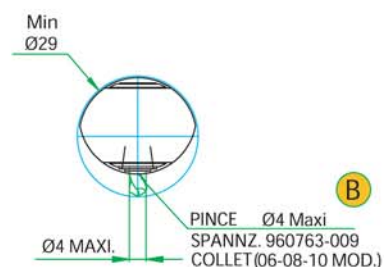
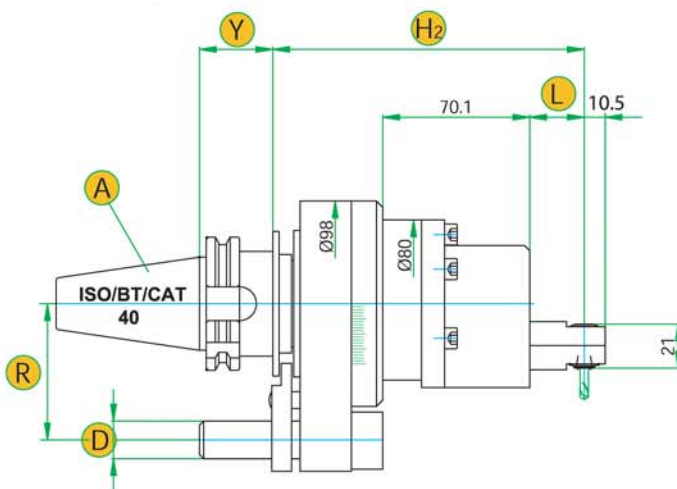
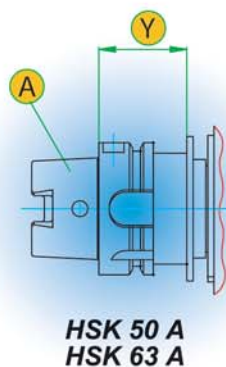
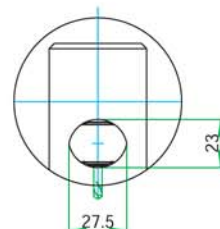
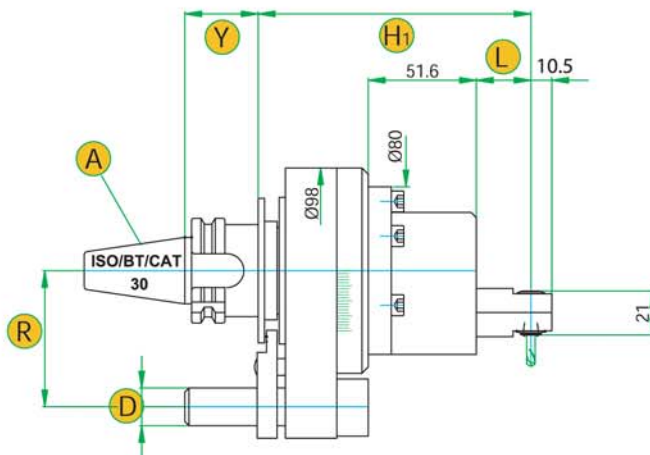
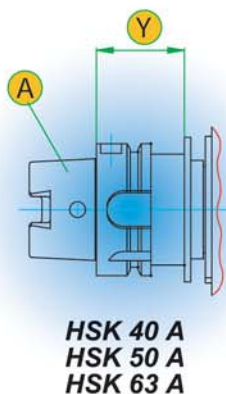




CDP 041 L1/L2/L3/L...

10'000 rpm

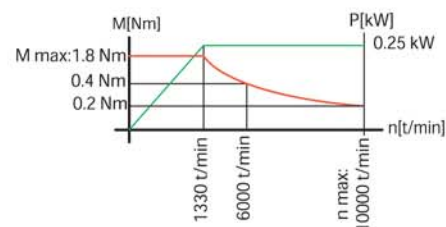
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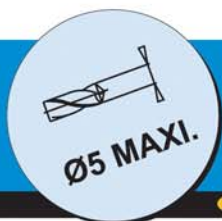
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	L	H1	H2	H3
L1	26	130.1	148.6	170.6
L2	50	154.1	172.6	194.6
L3	74	178.1	196.6	218.6
L4	96.5	200.6	219.1	241.1

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BROCHE SPINDEL SPINDLE	kW	Nm	kg
10000 t/min w/min rpm	0.25 kW	1.8 Nm	≈ 3.5 à 4.5 kg

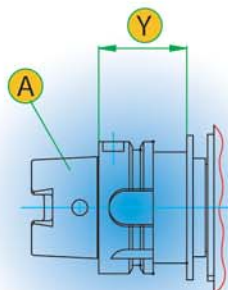




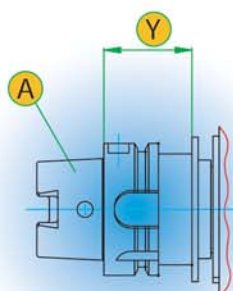
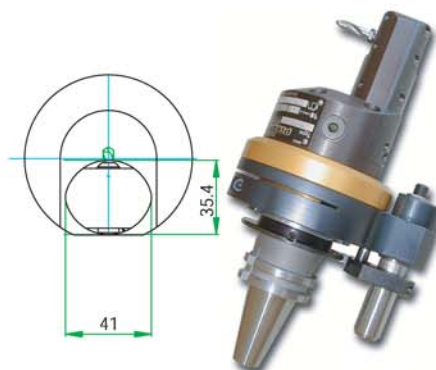
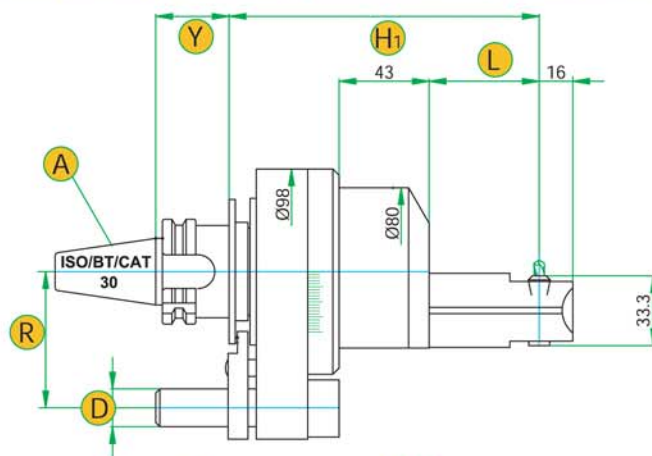
CDP 05 L1/L2/L3/L...

5'400 rpm

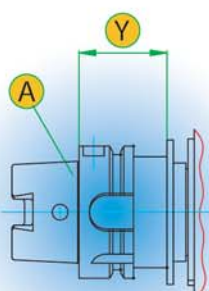
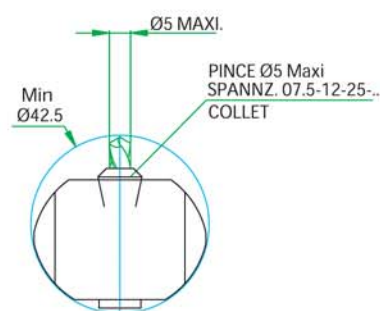
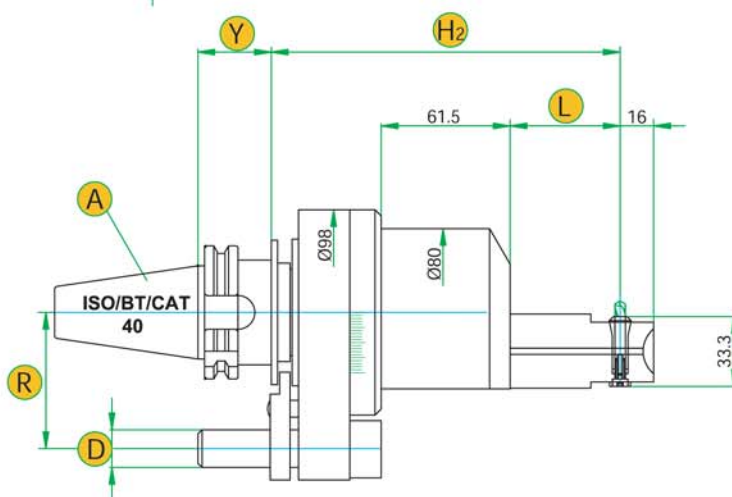
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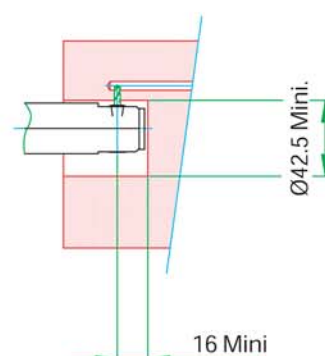
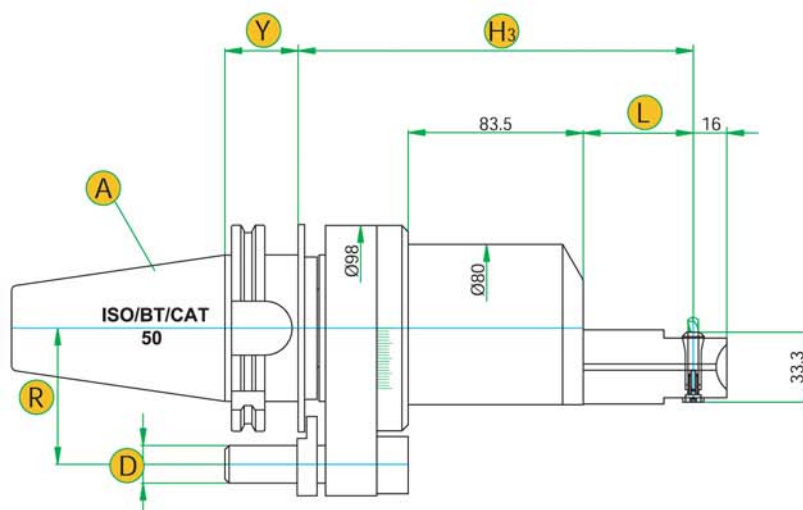
HSK 40 A
HSK 50 A
HSK 63 A



HSK 50 A
HSK 63 A



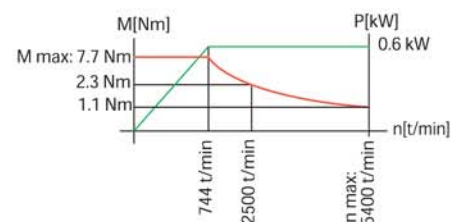
HSK 63 A
HSK 80 A
HSK 100 A



	L	H1	H2	H3
L1	52.5	148	166.5	188.5
L2	82.5	178	196.5	218.5
L3	112.5	208	226.5	248.5
L4	142.5	238	256.5	278.5
L5	172	267.5	286	308

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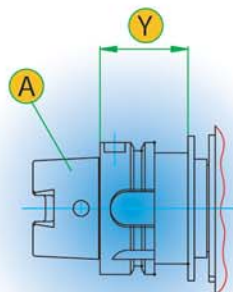
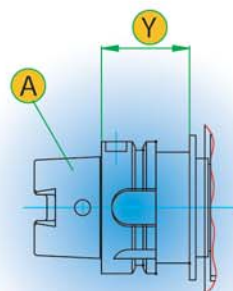
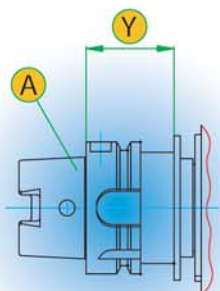
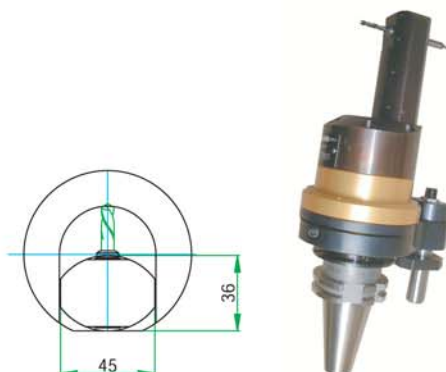
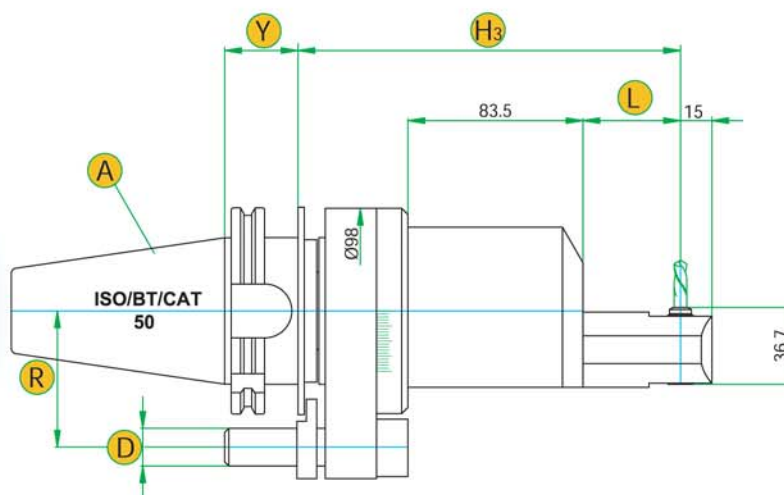
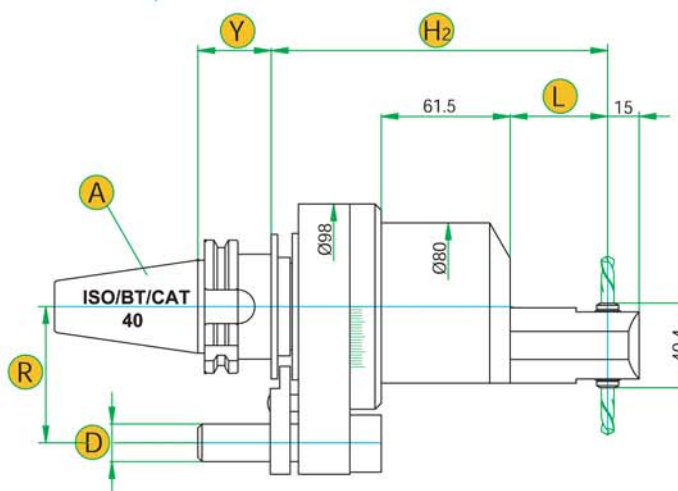
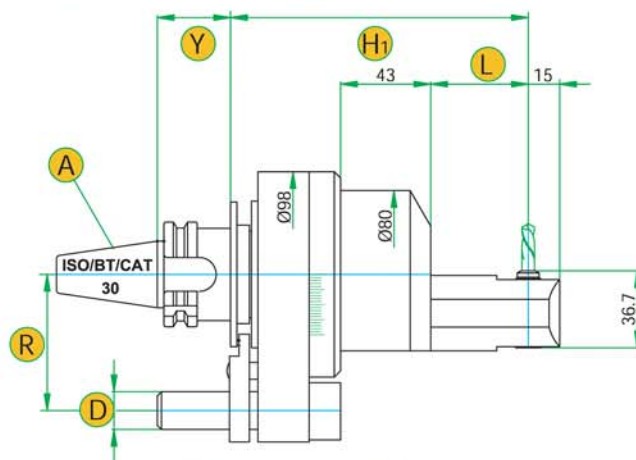
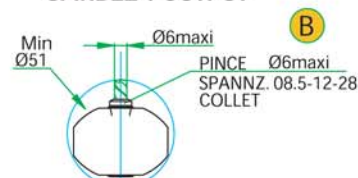
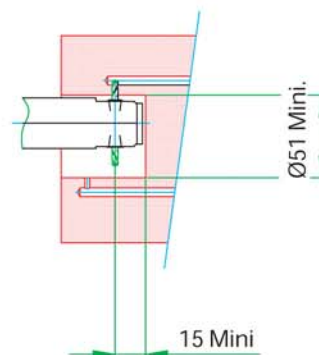
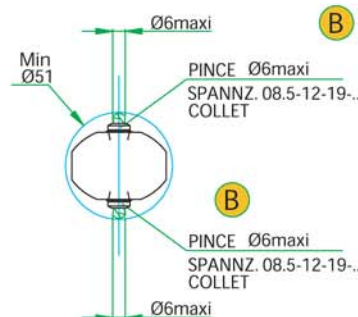
BROCHE SPINDEL SPINDLE	kW	Nm	kg
5400 t/min u/min rpm	0.6 kW	7.7 Nm	1 à 1.6
			≈ 4 à 7 kg





CDP 06 L1/L2/L3/L...

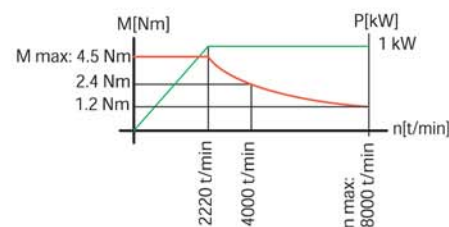
 8'000
rpm

 CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com

 HSK 40 A
 HSK 50 A
 HSK 63 A

 HSK 50 A
 HSK 63 A

 HSK 63 A
 HSK 80 A
 HSK 100 A

 BROCHE 1 SORTIE
 SPINDEL 1 AUSGANG
 SPINDLE 1 OUTPUT

 BROCHE 2 SORTIES
 SPINDEL 2 AUSGÄNGE
 SPINDLE 2 OUTPUTS


	L	H1	H2	H3
L1	46.5	142	160.5	182.5
L2	74.5	170	188.5	210.5
L3	102.5	198	216.5	238.5

voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
8000 t/min u/min rpm	1.0 kW	4.5 Nm	1 à 2.5	≈ 4 à 7 kg

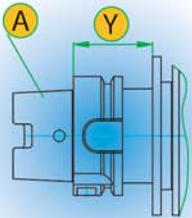
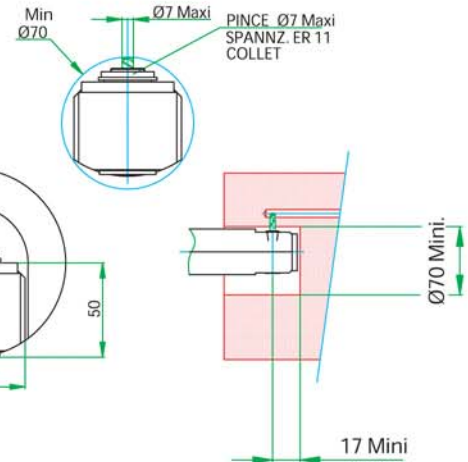
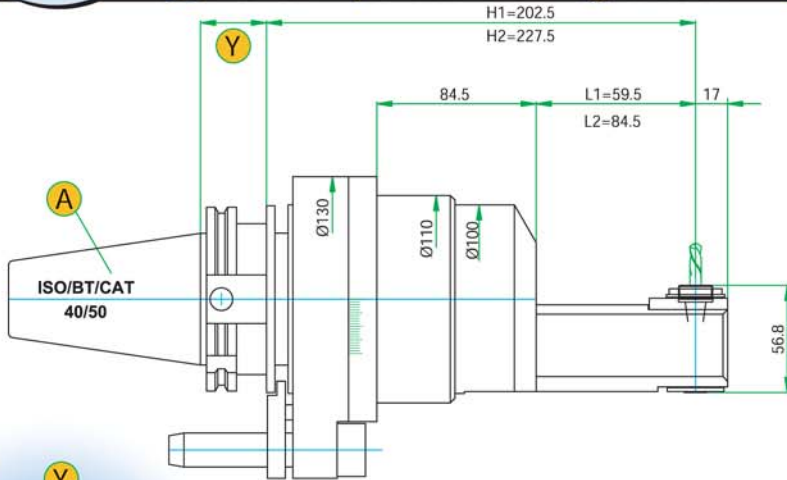


Ø7 / M4
MAXI.

CDP 07 L1/L2/L...

6'000
rpm

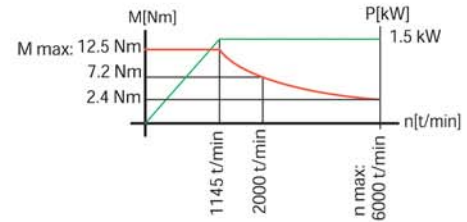
CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



HSK 63/80/100

voir page / siehe Seite / see page 39-40

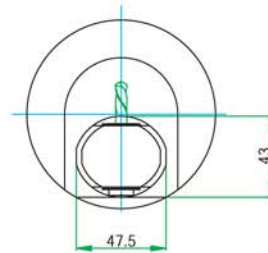
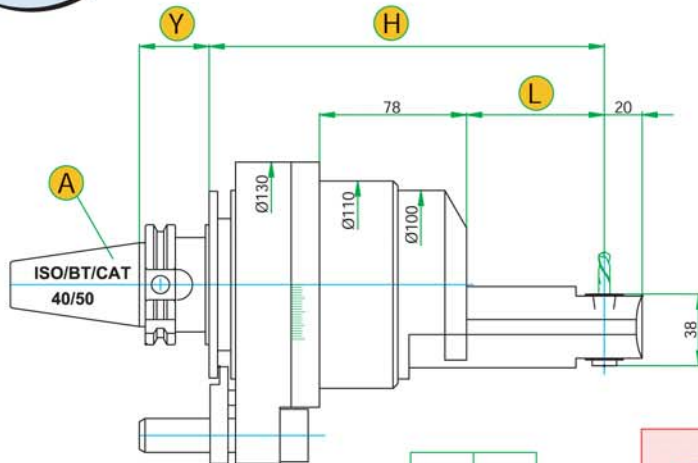
BROCHE SPINDEL SPINDLE	kW	Nm		kg
6000 t/min u/min rpm	1.5 kW	12.5 Nm	1 à 1.5	8 à 12 kg



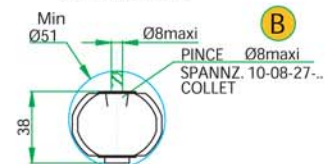
Ø8 MAXI.

CDP 08 L1/L2/L3/L...

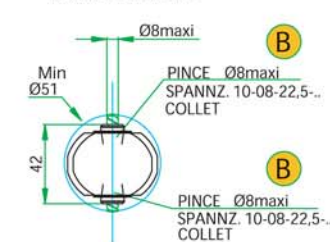
6'000
rpm



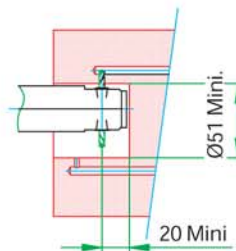
BROCHE 1 SORTIE
SPINDEL 1 AUSGANG
SPINDLE 1 OUTPUT



BROCHE 2 SORTIES
SPINDEL 2 AUSGÄNGE
SPINDLE 2 OUTPUTS

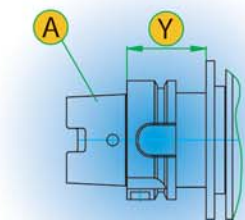
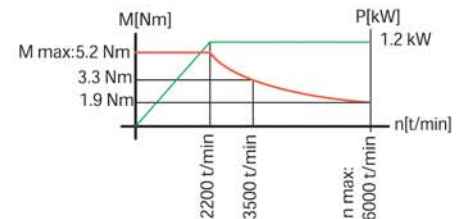


	L	H
L1	73	209.5
L2	105	241.5
L3	125	261.5



voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
6000 t/min u/min rpm	1.2 kW	5.2 Nm	1 à 1.5	7 à 11 kg



HSK 63/80/100

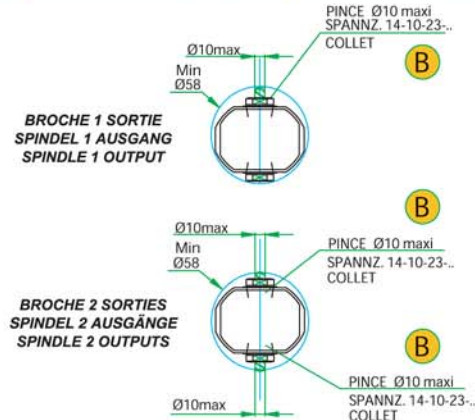
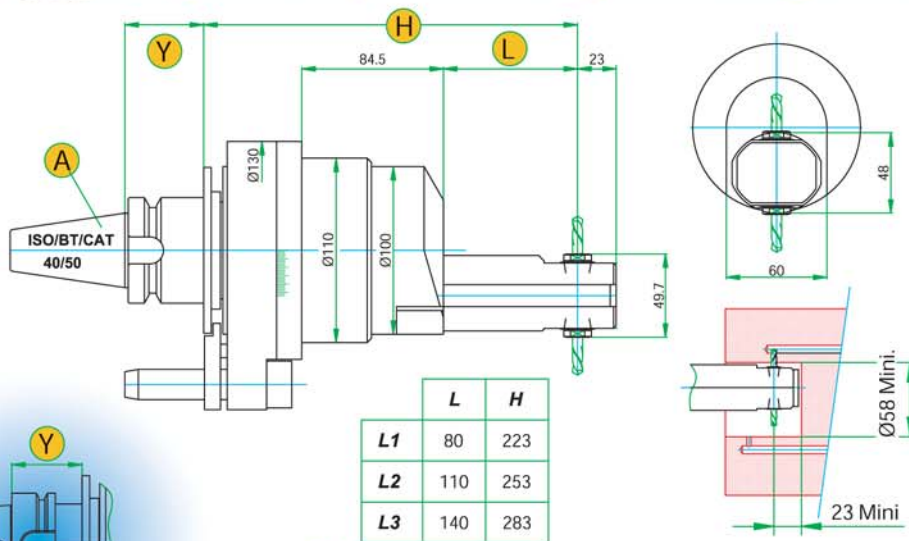


CDP 10 L1/L2/L3/L...

4'500
rpm

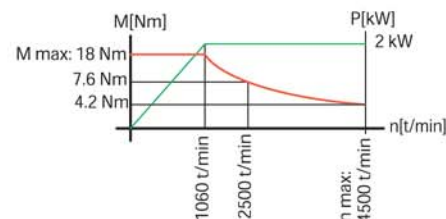
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USA Internet : www.pibomulti-na.com mail : info@pibomulti-na.com



voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
4500 t/min u/min rpm	2.0 kW	18 Nm	1 à 1.5	12 à 15 kg

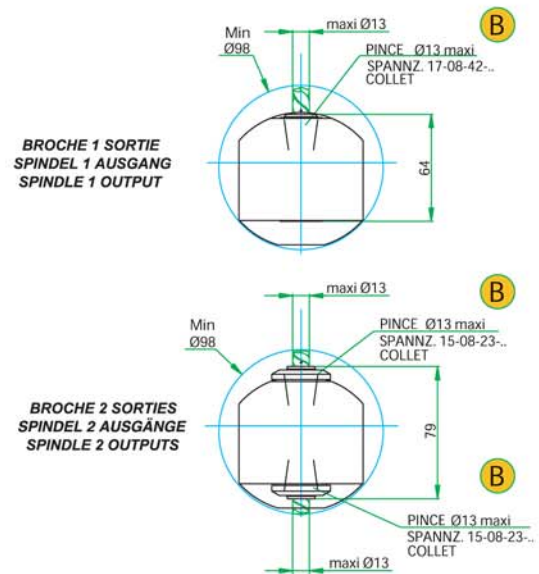
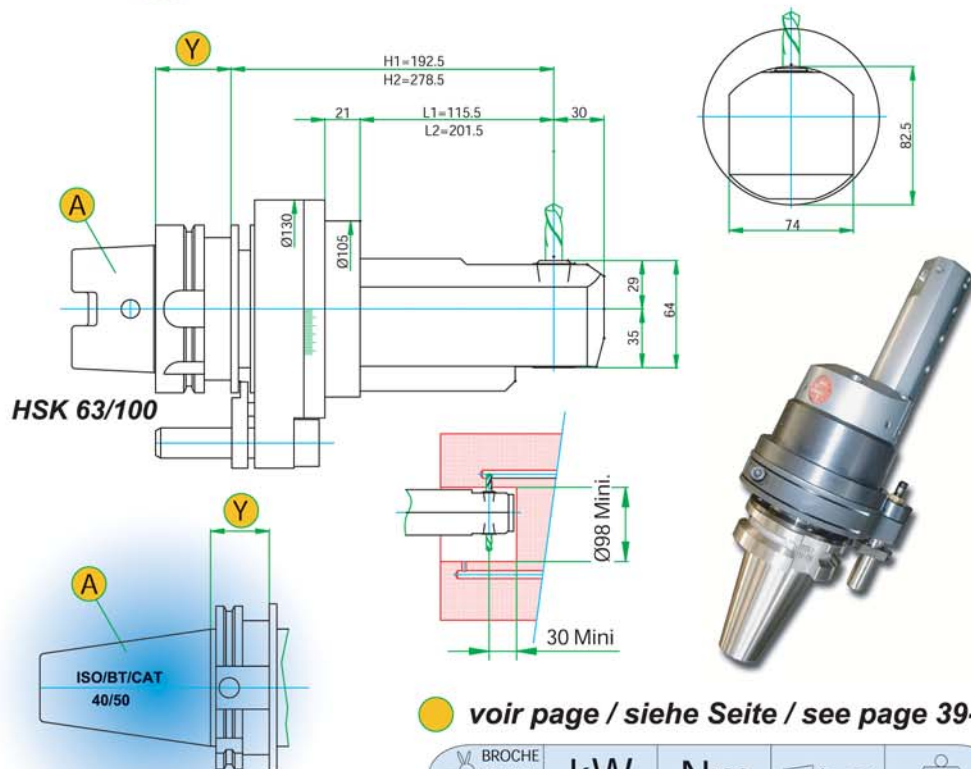


HSK 63/80/100



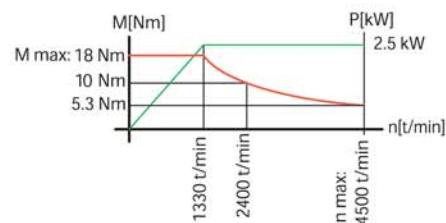
CDP 13 L1/L2/L...

4'500
rpm



voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
4500 t/min u/min rpm	2.5 kW	18 Nm	1 à 2	7 à 12 kg



Ø7 / M4
MAXI.

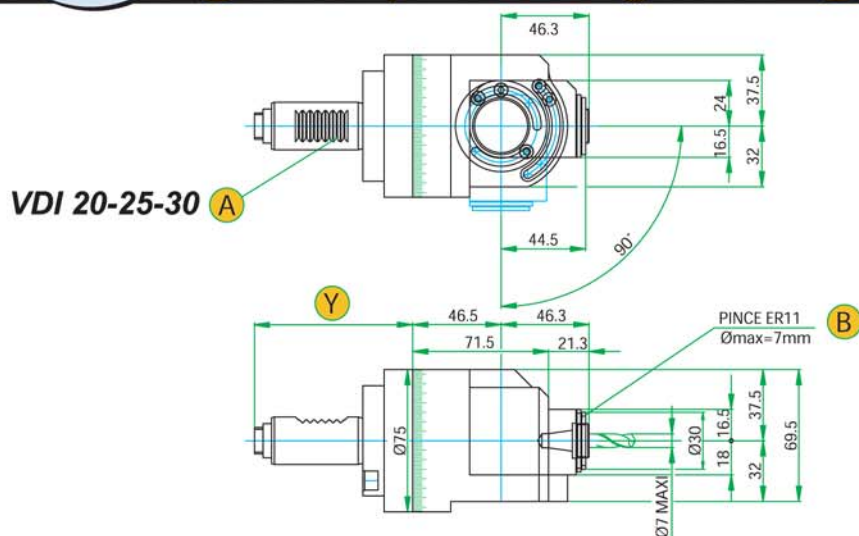
**TETE POUR TOUR
KOPF FÜR DREHMASCHINE
HEAD FOR TURNING MACHINE**

TTAR 07

10'000 rpm

CH internet : www.pibomulti.com mail : info@pibomulti.com

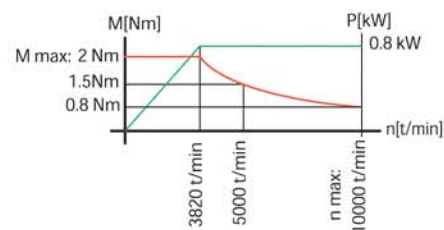
USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



Voir / siehe / see
CTAR 07

 voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		
10000 t/min u/min rpm	0.8 kW	2.0 Nm	1 à 3.2	≈ 3 kg

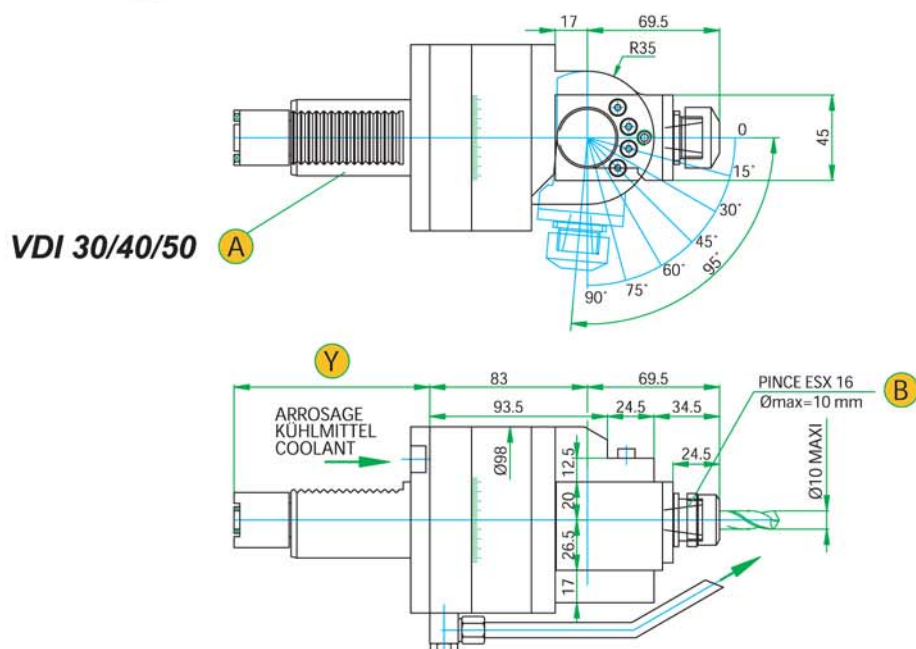


Ø10 / M6
MAXI.

**TETE POUR TOUR
KOPF FÜR DREHMASCHINE
HEAD FOR TURNING MACHINE**

TTAR 10

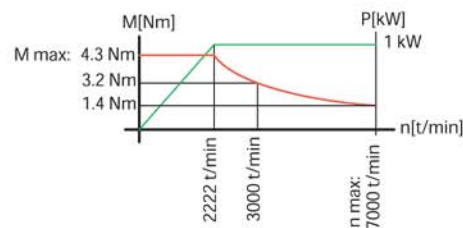
7'000 rpm



Voir / siehe / see
CTAR 10

 voir page / siehe Seite / see page 39-40

 BROCHE SPINDEL SPINDELE	kW	Nm		
7000 v/min u/min rpm	1.0 kW	4.3 Nm	1 à 2	≈ 7 kg



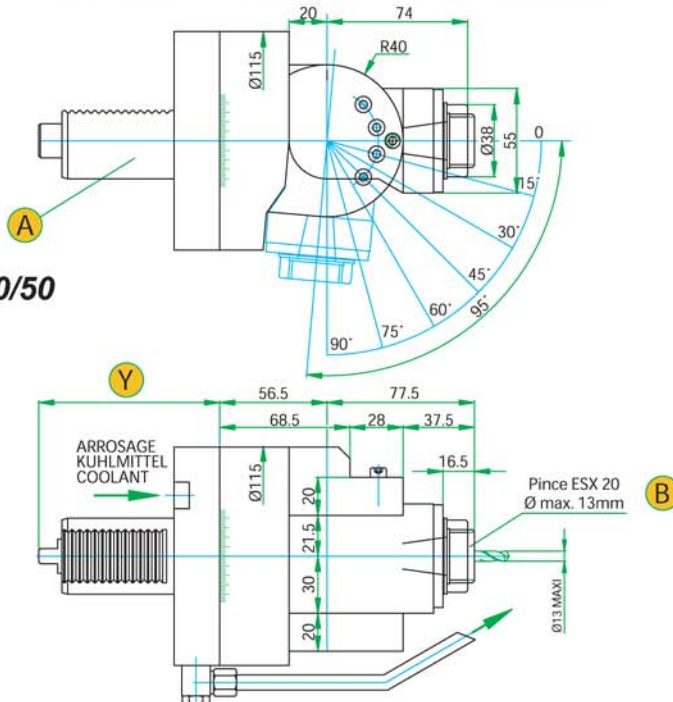

TETE POUR TOUR
KOPF FÜR DREHMASCHINE
HEAD FOR TURNING MACHINE
TTAR 13
5'000 rpm

SPECIAL : 6 000 rpm

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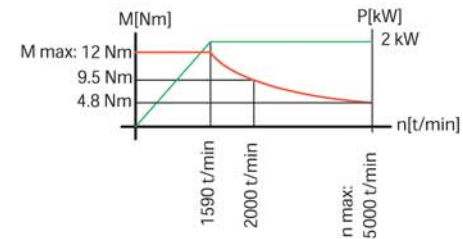
VDI 30/40/50

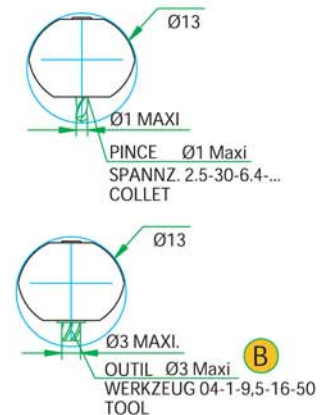
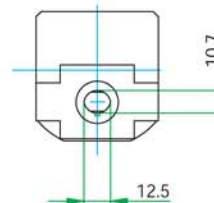
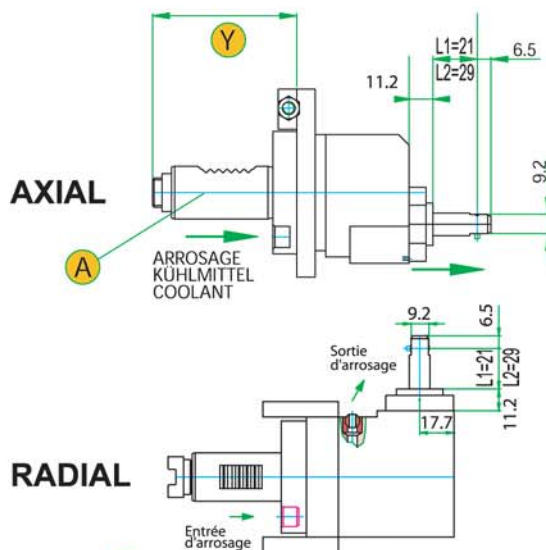


voir page / siehe Seite / see page 39-40

 Voir / siehe / see
 CTAR 13

BROCHE SPINDEL SPINDLE	kW	Nm		kg
5000 t/min u/min rpm	2.0 kW	12 Nm	1 à 1.6	≈ 11 kg


 OUTIL WERKZEUG TOOL
 Ø3 MAXI.
 PINCE SPANNZ. COLLET
 Ø1 MAXI.

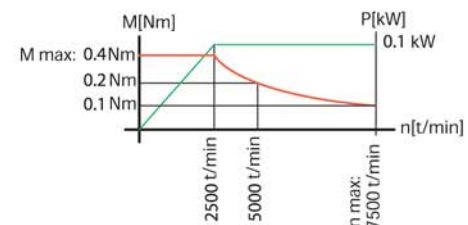
TETE POUR TOUR
KOPF FÜR DREHMASCHINE
HEAD FOR TURNING MACHINE
TDC 03 L1/L2
7'500 rpm


VDI 25

RADIAL

voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm		kg
7500 t/min u/min rpm	0.1 kW	0.4 Nm	1 à 3.75	≈ 4 kg





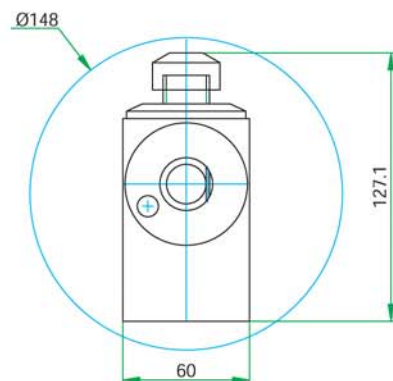
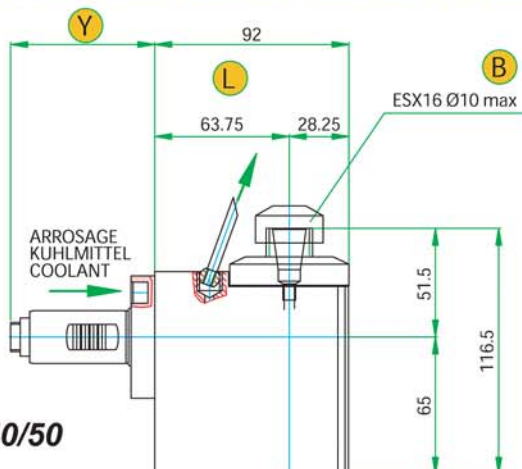
TETE POUR TOUR
KOPF FÜR DREHMASCHINE
HEAD FOR TURNING MACHINE

TTE 10X5

18'000 rpm

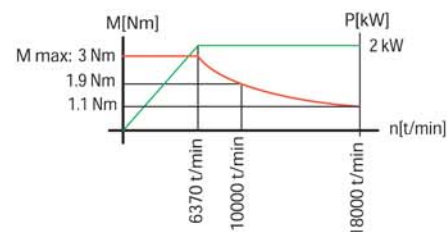
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VDI 25/30/40/50



voir page / siehe Seite / see page 39-40

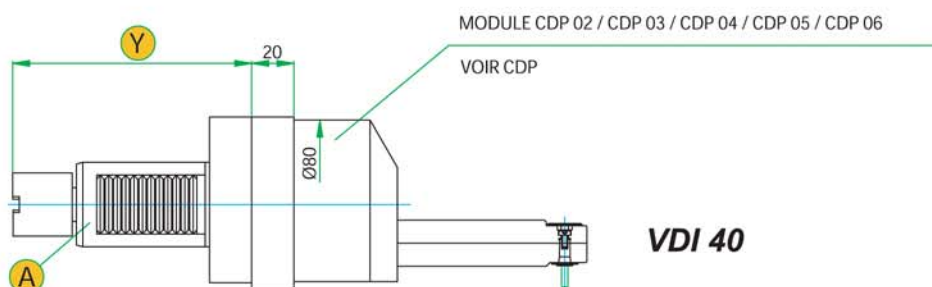
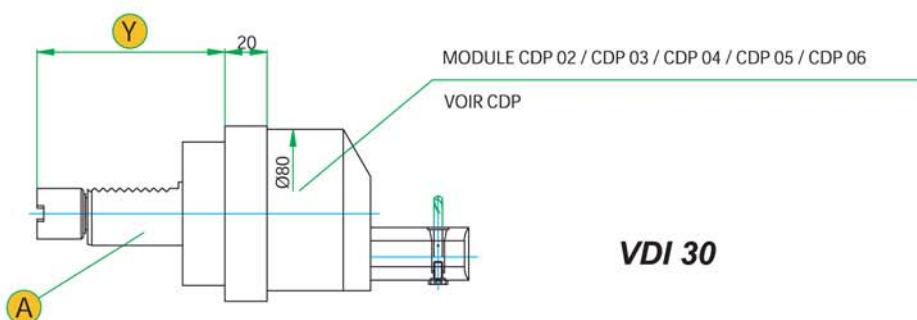
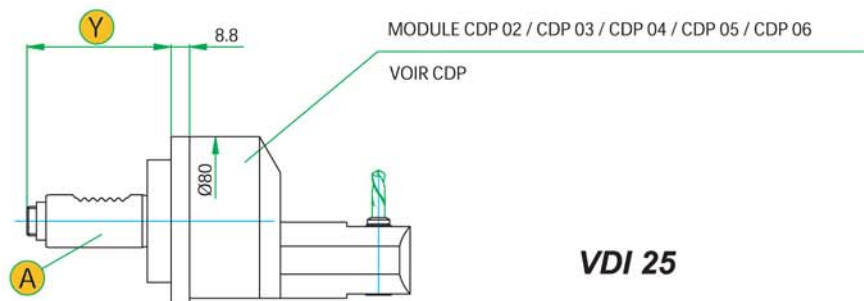
BROCHE SPINDEL SPINDLE	kW	Nm		kg
18000 t/min u/min rpm	2.0 kW	3.0 Nm	1 à 5	≈ 4 à 6 kg



TETE POUR TOUR
 KOPF FÜR DREHMASCHINE
 HEAD FOR TURNING MACHINE

TDP 02/03/04/05/06

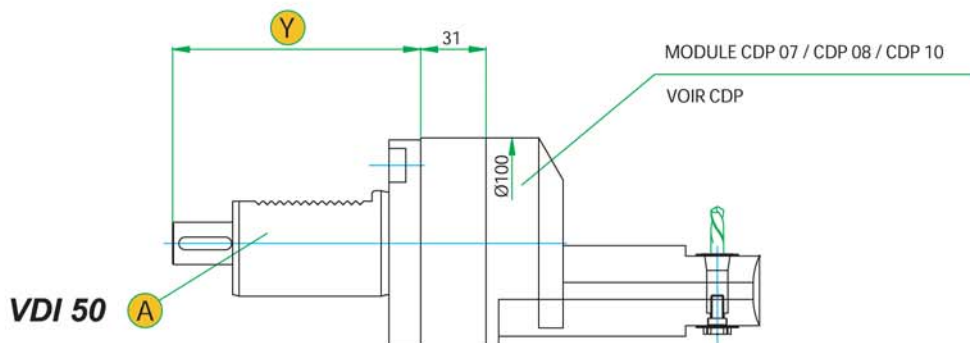
CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com



voir page / siehe Seite / see page 39-40

TETE POUR TOUR
 KOPF FÜR DREHMASCHINE
 HEAD FOR TURNING MACHINE

TDP 07/08/10



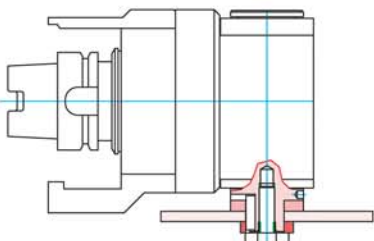
voir page / siehe Seite / see page 39-40

PROGRAMME - PROGRAMM - PROGRAM CHIRON

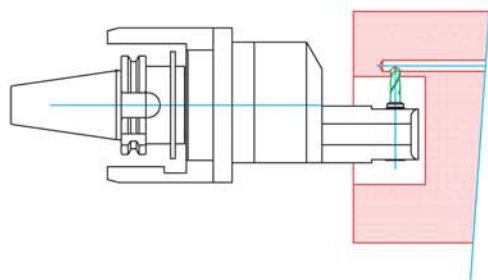
CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com

POUR - FÜR - FOR CHIRON

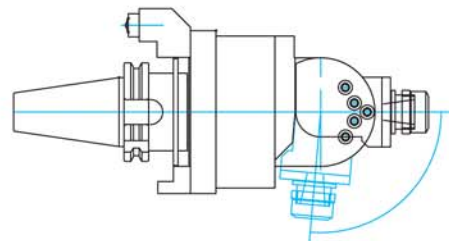
FZ 08 / FZ 15 / FZ 18 / DZ 18 / FZ 12 / DZ 12 / FZ 22 / DZ 22 / FZ 28 / DZ 28



TÊTE DE SCIAGE
SÄGEKOPF
SAWING HEAD



TÊTES PERÇAGE FRAISEAGE TARAUDAGE
KÖPFE ZUM BOHREN, FRÄSEN, GEWINDESCHNEIDEN
HEADS FOR DRILLING, MILLING AND TAPPING

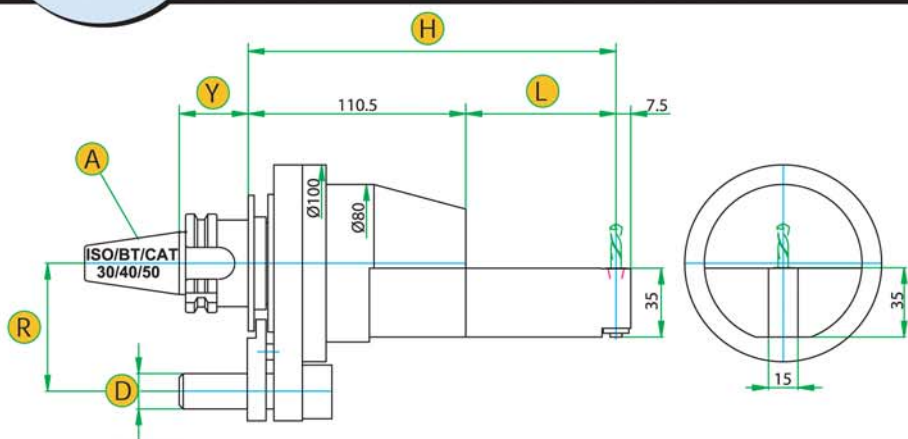


TÊTES ANGULAIRES RÉGLABLES
EINSTELLBARE WINKEKÖPFE
ADJUSTABLE ANGULAR HEADS
SUR DEMANDE / AUF ANFRAGE / ON REQUEST

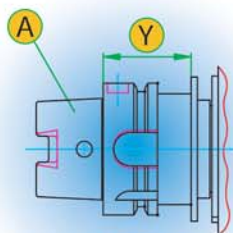
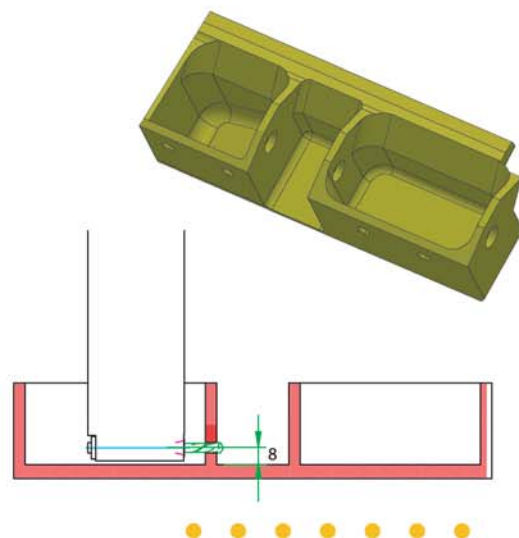


PROGRAMME - PROGRAMM - PROGRAM AEROSPACE CDP 042 L1/L2/L...

6'000 rpm



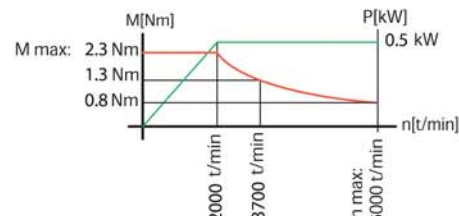
	L	H
L1	65	175.5
L2	76.25	186.75



HSK
40/50/63/80/100

voir page / siehe Seite / see page 39-40

BROCHE SPINDEL SPINDLE	kW	Nm	kg
6000 t/min w/min rpm	0.5 kW	2.3Nm	1 à 3
			~3.5 à 4.5 kg

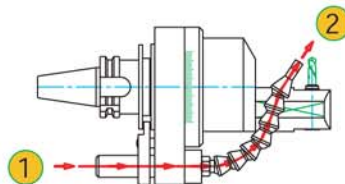


ARROSAGE - KÜHLMITTEL - COOLANT

CH internet : www.pibomulti.com mail : info@pibomulti.com USA internet : www.pibomulti-na.com mail : info@pibomulti-na.com

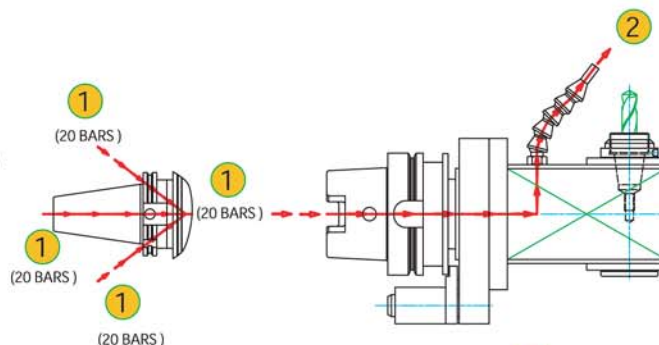
1 ARRIVEE D'ARROSAGE KÜHLMITTEL EINGANG COOLANT INPUT 2 SORTIE D'ARROSAGE KÜHLMITTEL AUSGANG COOLING OUTPUT

Arrosage par l'indexion
Kühlung durch die Indexierung
Coolant through locating



POUR / FÜR / FOR :
TOUS LES MODELES
ALLE MODELLE
ALL THE MODELS

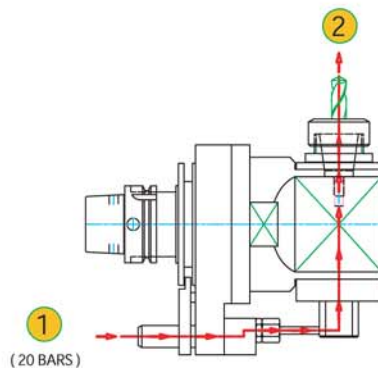
Entrée par le centre, sortie extérieur
Eingang durch Zentrum, Ausgang aussen
Inlet thru the centre, outlet outside



POUR / FÜR / FOR :
CEP 16
CEP 20 / CEC 30

... SUR DEMANDE
AUF ANFRAGE / ON REQUEST

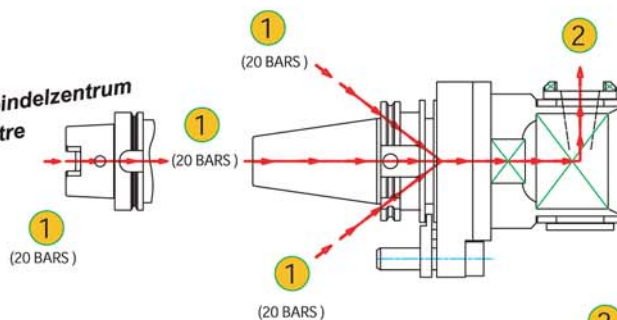
Entrée par l'indexion, sortie centre broche
Eingang über Indexierung, Ausgang durch Spindelzentrum
Inlet thru location device, outlet thru spindle centre



POUR / FÜR / FOR :
CEP 20
CEP 16
CEP 13
CEP 10
CMP 10

... SUR DEMANDE
AUF ANFRAGE / ON REQUEST

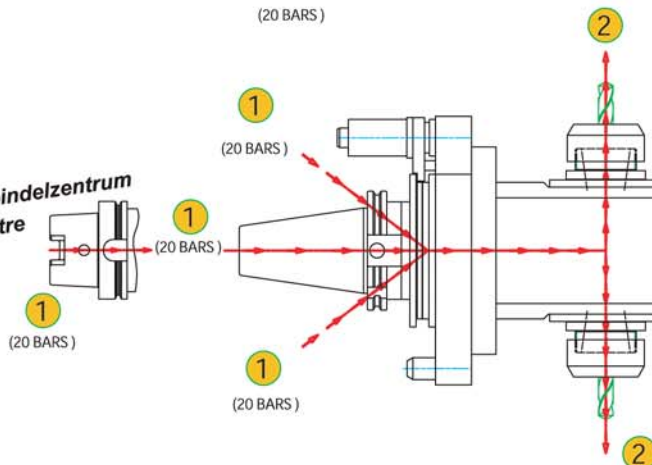
Entrée par le centre, sortie centre broche
Eingang durch Zentrum, Ausgang durch Spindelzentrum
Inlet thru the centre, outlet thru spindle centre



POUR / FÜR / FOR :
CEC 30
CEC 40

... SUR DEMANDE
AUF ANFRAGE / ON REQUEST

Entrée par le centre, sortie centre broche
Eingang durch Zentrum, Ausgang durch Spindelzentrum
Inlet thru the centre, outlet thru spindle centre



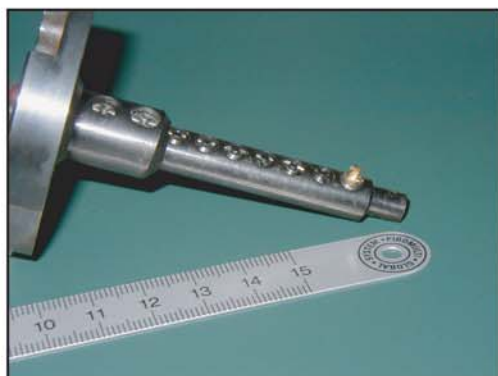
POUR / FÜR / FOR :
CEP 26

... SUR DEMANDE
AUF ANFRAGE / ON REQUEST

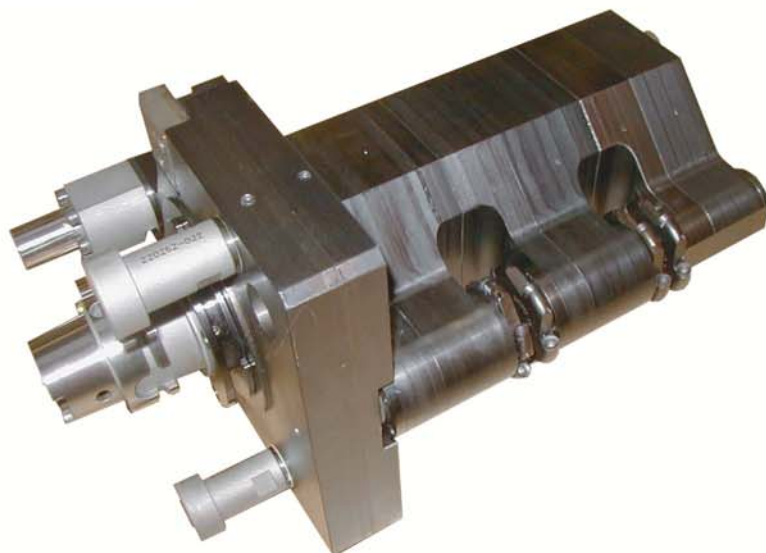
TETES SPECIALES - SONDER-WINKELKOEPF - SPECIAL HEADS

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Miniature - Miniatur - Small ...



... Ou de grande puissance
oder mit grosser Leistung
or big power



2000 kg - 100 kW

OUTILS TOURNANTS - ANGETRIEBENE WERKZEUGE - DRIVEN TOOLS

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Multiplicateurs de vitesse
Schnellaufspindeln
Spindle speeders

Jusqu'à / Bis / Up to
40'000 rpm



Spécifique pour meulage
Speziell zum Schleifen
Specific for grinding



Têtes universelles
Universalköpfe
Universal heads



Têtes angulaires pour tour
Winkelköpfe für Drehmaschine
Angular heads for turning machine



Têtes angulaires avec multiplicateur intégré
Winkelköpfe mit integrierten Schnellaufspindeln
Angular Heads with integrated Spindle speeders



INFORMATIONS TECHNIQUES TECHNISCHE INFORMATIONEN

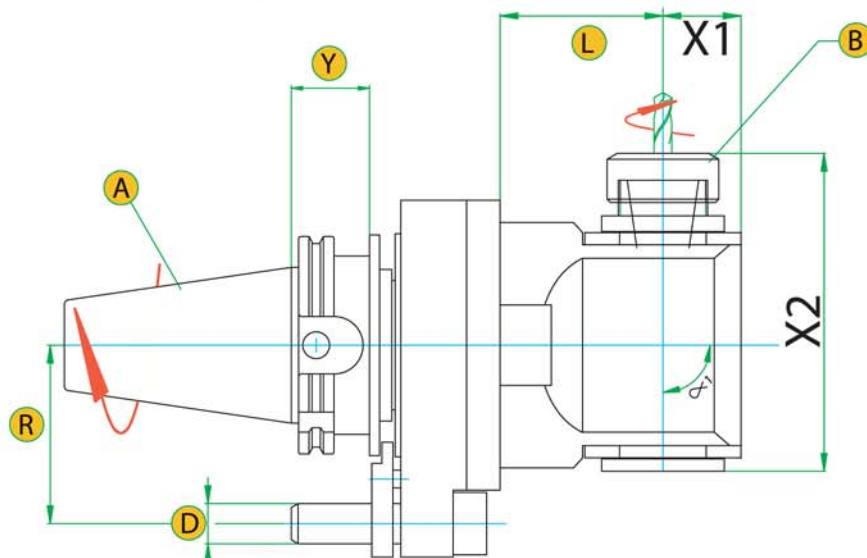
TECHNICAL INFORMATION A/B/D/L/R/Y

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HORS STANDARD SUR DEMANDE
NIGHT STANDARD AUF ANFRAGE
NOT STANDARD ON REQUEST

X1 ET X2 A PRECISER IMPERATIVEMENT
X1 UND X2 UNBEDINGT ANGEBEN
X1 AND X2 TO BE INDICATED

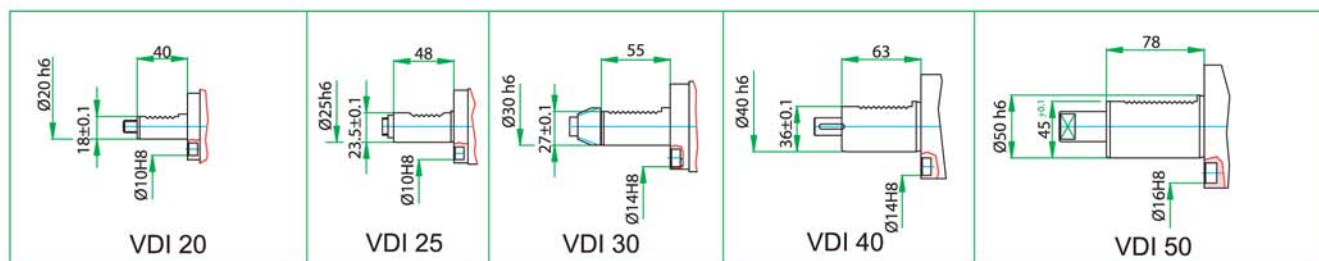
Y SELON TYPE DE CONE ET DE MACHINE
Y NACH STEIKEGEL UND MASCHINE TYPE
Y ACCORDING TO SHANK AND MACHINE TYPE



Toutes modifications réservées - Änderungen vorbehalten - Reserve the right to modify

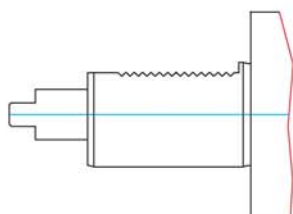
VDI

Exemples de machines équipées / Beispiele von ausgerüsteten Maschinen
Examples of equipped machines :
Traub - Index - Mori Seiki - Nakamura - Okuma - Gildemeister - Mazak
Cincinnati - Biglia - Citizen - Tornos - Star - Emag - Hardinge ...

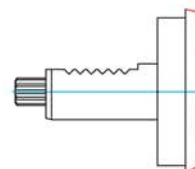


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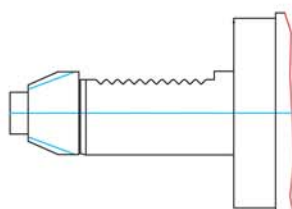
TOURNEVIS / SCHRAUBENZIEHER / SCREW DRIVER :
DIN 1809



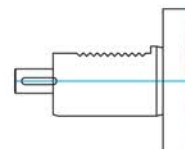
ARBRE CANNELE / KEILWELLE / GROOVED SHAFT :
DIN 5480 / DIN 5482



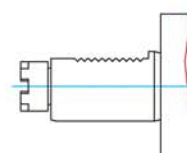
ROUE DENTEE CONIQUE / KONISCHES ZAHNRAD
BEVEL WHEEL GEAR :



ARBRE CLAVETE / WELLE MIT NUT
SHAFT WITH KEY :



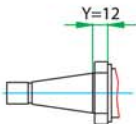
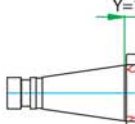
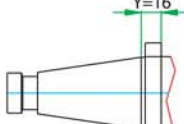
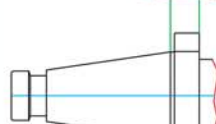
CRABOT / KLAUE / DRIVING DOG :



INFORMATIONS TECHNIQUES TECHNISCHE INFORMATIONEN TECHNICAL INFORMATION

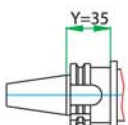
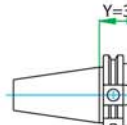
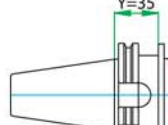
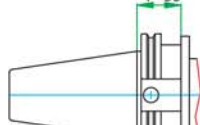
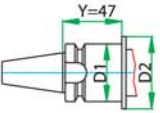
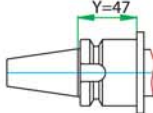
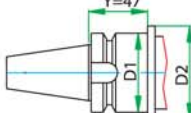
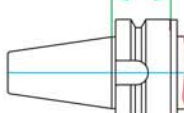
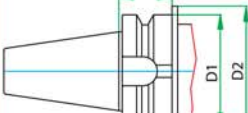
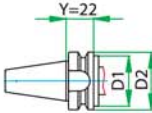
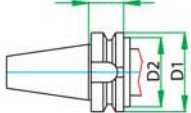
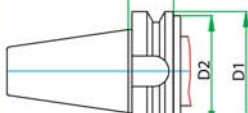
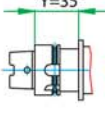
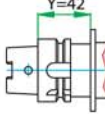
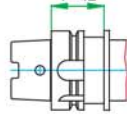
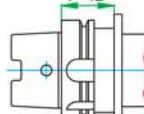
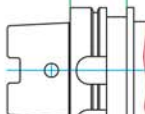
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A / Y : TYPE DE CONE**A / Y : STEILKEGEL****A / Y : SHANK****CHANGEMENT MANUEL****MANUELLER WECHSEL****MANUAL TOOL CHANGE**

				
ISO 30 DIN 2080		ISO 40 DIN 2080	ISO 45 DIN 2080	ISO 50 DIN 2080 NMBT 50

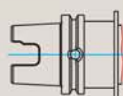
A / Y : TYPE DE CONE**A / Y : STEILKEGEL****A / Y : SHANK****CHANGEMENT AUTOMATIQUE****AUTOMATISCHER WECHSEL****AUTOMATIC TOOL CHANGE**

EXECUTION STANDARD / STANDARD AUSFÜHRUNG / STANDARD FABRICATION

				
ISO 30 DIN 69871-A		ISO 40 DIN 69871-A CAT 40 CAT 40 - 5/8" - 11 UNC	ISO-45 DIN 69871-A CAT 45	ISO 50 DIN 69871-A CAT 50 CAT 50 - 1" - 8 UNC
				
BT 30 D2 > D1	BT 35	BT 40 D2 > D1	BT 45	BT 50 D2 > D1
				
BT 30 D2 < D1		BT 40 D2 < D1		BT 50 D2 < D1
				
HSK 40-A	HSK 50-A	HSK 63-A	HSK 80-A	HSK 100-A

 EXECUTION SPECIALE SUR DEMANDE
 SPEZIALAUSFÜHRUNG AUF AUFRAGE
 SPECIAL FABRICATION ON REQUEST


CAPTO



KM

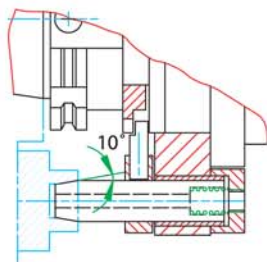
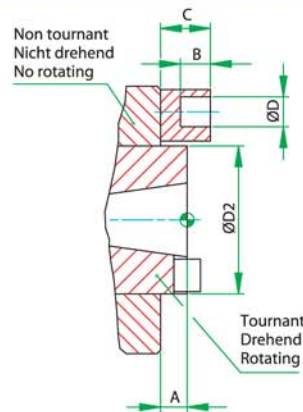
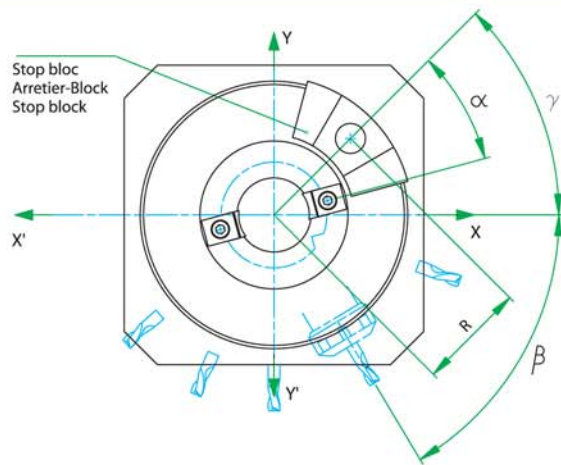
ETC ...

 SUR DEMANDE
 AUF ANFRAGE
 ON REQUEST

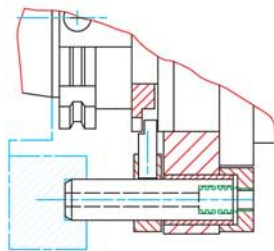
INDEXION - INDEXIERUNG - LOCATION DEVICE

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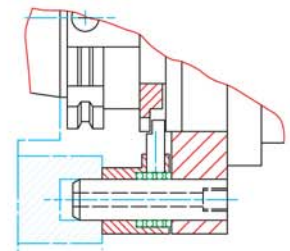
Conditions requises pour une indexion		Benötigte Details für eine Indexierung	Location device requirements
ØD	Ø du doigt d'indexion	Ø des Positionierungsstiftes	Ø of the location pin
D2	Ø du nez de broche (partie tournante)	Ø der Spindelnase (drehend)	Ø of the spindle nose (rotating)
R	Rayon du doigt d'indexion	Radius des Positionierungsstiftes	Radius of the location pin
A	Distance - face d'appui	Distanz - Auflagefläche	Distance - Orientation location face
B	Extrémité du doigt d'indexion	Stirnseite des Positionierungsstiftes	Front of location pin
C	Epaisseur du stop bloc	Höhe des Arretier-Blocks	Thickness of stop block
α	Angle entre taquets et indexion	Winkel zw. Mitnehmer und Indexierung	Angle between drivers and location device
β	Angle entre axe X et sortie de broche	Winkel zw. X-Achse und Spindelausgang	Angle between X-axis and spindle output
g	Angle entre l'axe X et le stop bloc	Winkel zw. X-Achse und Arretier-Block	Angle between X-axis and stop block



TYPE A Goupille cônica 10° mobile
10° Kon. Beweglicher Stift
10° Conical moving pin

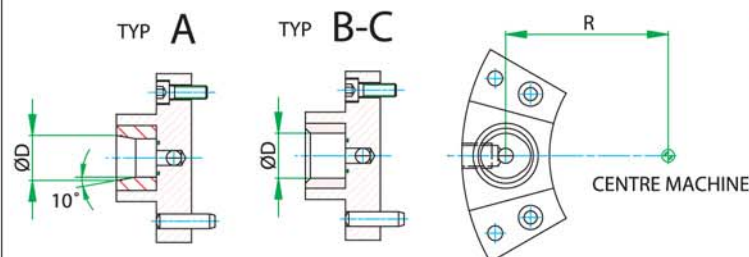


TYPE B Goupille cylindrique mobile
Zyl. Beweglicher Stift
Cylindrical moving pin



TYPE C Goupille cylindrique fixe
Fester Stift, Zyl.
Cylindrical fixed pin

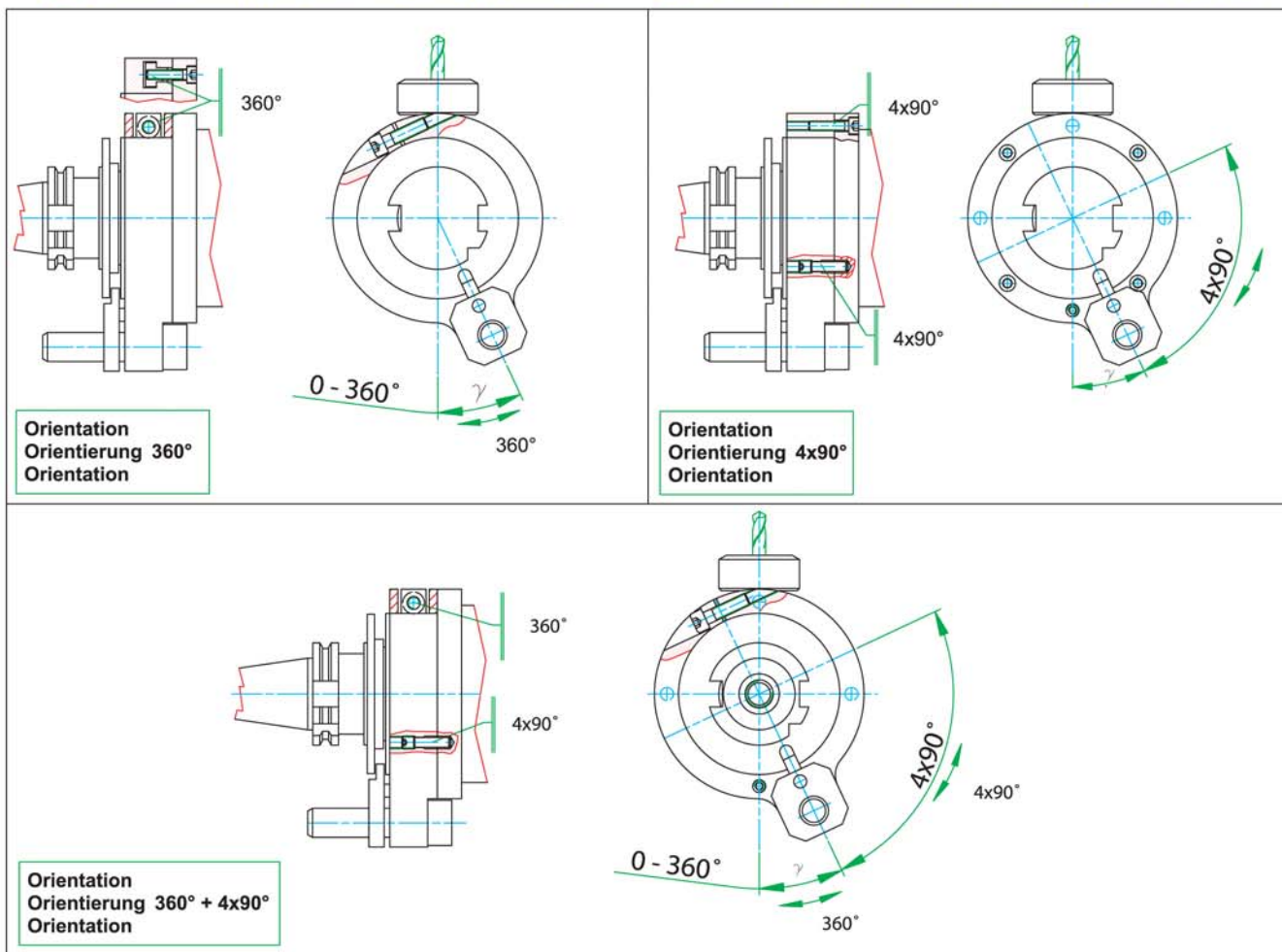
STOP BLOC / ARRETIER-BLOCK / STOP BLOCK



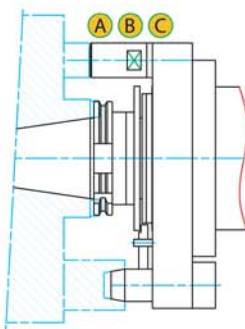
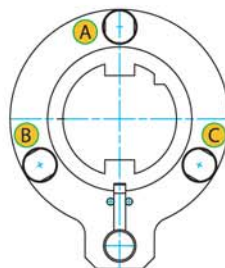
ISO  HSK	R	ØD	REF.
30 / HSK 40-50	55	Ø 15 G6	076-05-206-20 (Typ C)
40 / HSK 63	65	Ø 18 G6	076-05-206-10 (Typ C)
	ou 80	Ø 18 G6	076-05-206-30 (Typ A) 076-05-206-10 (Typ B-C)
50 / HSK 80-100	80 ou 100	Ø 18 G6 ou	076-05-206-30 (Typ A) 076-05-206-10 (Typ B-C)
	ou 110	Ø 28	175-265-35-00 (Typ A)

ORIENTATION - ORIENTIERUNG - ORIENTATION

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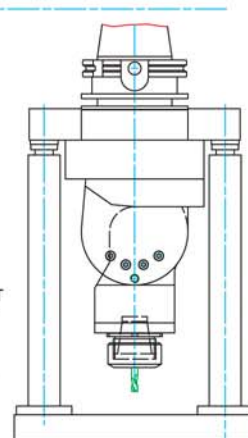
TRANSMISSION DE GRANDE PUISSANCE ET RIGIDITE STABILITÄT UND UEBERTRAGUNG GROSSER KRÄFTE HIGH POWER TRANSMISSION AND RIGIDITY

 INDEXION AVEC APPUIS
 INDEXIERUNG MIT ABSTUETZUNG
 LOCATION DEVICE WITH SUPPORTS

 3 OU 4 APPUIS SELON LA MACHINE
 3 ODER 4 AUFLAGEFLÄCHEN, JE NACH MASCHINE
 3 OR 4 SUPPORTS RELATED TO THE MACHINE

 FLASQUE
 FLANSCH
 FLANGE

PICK-UP STATION

 EN CAS DE PROBLEME DE POIDS
 LA STATION PICK UP EST UNE BONNE
 ALTERNATIVE AU CHANGEMENT
 SEMI - AUTOMATIQUE

 A PICK-UP STATION IS A GOOD
 ALTERNATIVE WHEN THE TOOL WEIGHT
 OR SIZE EXCEEDS THE CAPABILITY OF
 THE AUTOMATIC TOOL CHANGER

 IM FALLE VON GEWICHTSPROBLEMEN,
 IST DIE PICK-UP - STATION EINE
 GUTE ALTERNATIVE ZUM
 HALBAUTOMATISCHEN WECHSEL


SOMMAIRE - ZUSAMMENFASSUNG - SUMMARY

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Multiplicateurs de vitesse pour centre d'usinage 44

Schnellaufspindeln für Bearbeitungszentren

Spindle speeders for machining centre

Multiplicateur à grand rendement et de grande puissance 45

Schnellaufspindeln für hohe Produktivität und grosser Leistung

Speeders for high productivity and big power

Multiplicateur de vitesse pour tour 46

Schnellaufspindeln für Drehmaschinen

Spindle speeders for turning machines

Informations techniques 47

Technische Informationen

Technical information



FX 300

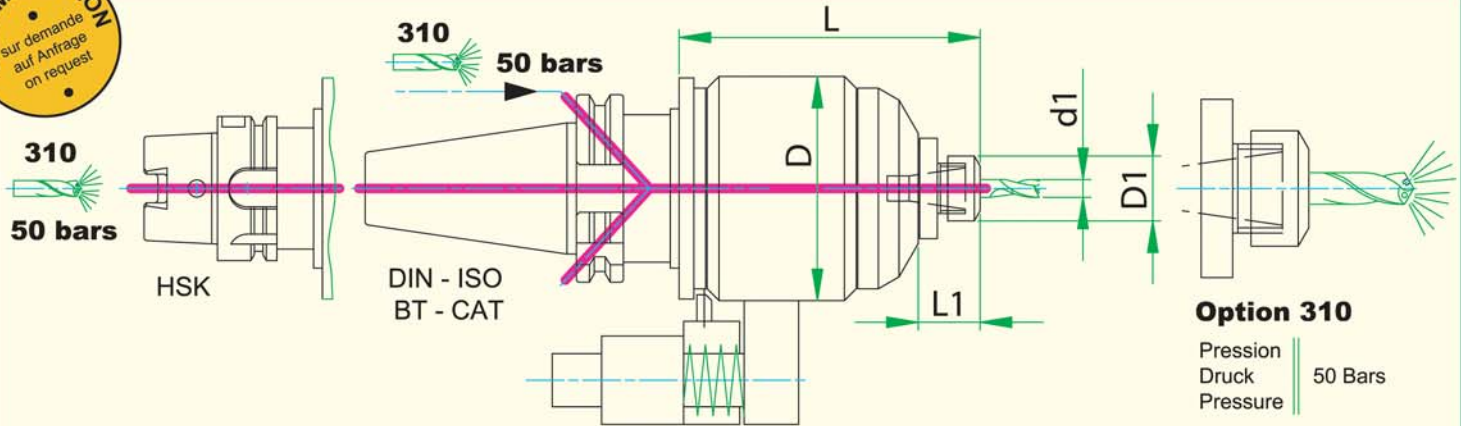


50'000 rpm

Multiplicateur de vitesse pour centre d'usinage
Schnellaufspindeln für Bearbeitungszentren
Spindle speeders for machining centre

**50'000
rpm**

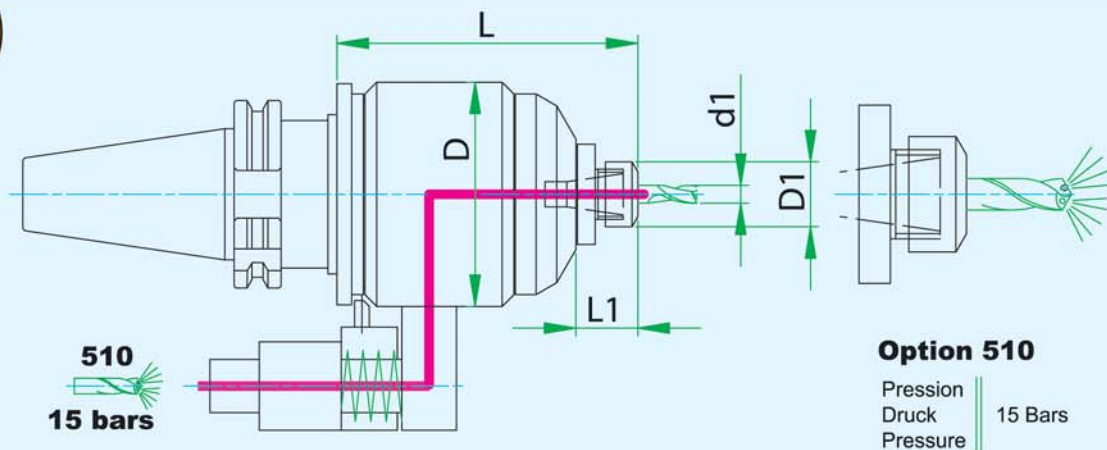
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DOCUMENTATION
 sur demande
auf Anfrage
on request


■ :standard - Standard - standard ▲ :sur demande - auf Anfrage - on request

Caractéristiques / Angaben Features							Arrosage Kühlmittel Coolant	Pince Zange Collet	Dimensions						DIN - ISO - BT - CAT						HSK					
Type		n	n max	kW	Nm	n max			d1	D	D1	L	L1	kg	30	35	40	45	50	60	32	40	63	80	100	
X635	1+5	25'000	30'000	1.7	7	-		ER11	0.5 - 7	63	19	99	23	2												
X766	1+6	25'000	30'000	2.8	8	25'000		ETS14	0.5 - 8	76	22	102	21	3.1												
X9810	1+10	36'000	40'000	2	5	36'000		ETS14	0.5 - 8	98	22	115	21	5												
X9810-50	1+10	44'000	50'000	2	5	44'000		ETS14	0.5 - 8	98	22	115	21	5												
X765	1+5	18'000	22'000	3.5	12	18'000		ER16	0.5 - 10	76	32	111	30	3.5												
X986	1+6	16'000	20'000	4.5	18	16'000		ER20	1 - 13	98	35	124	32	5.5												
X1055	1+5	14'000	17'000	6.4	29	13'000		ER25	1 - 16	105	42	137	35	6.5												
X1057	1+7	15'000	18'000	4	5.7	15'000		ER20	1 - 13	105	35	122	32	5.2												
X1205	1+5	12'000	15'000	7	34	12'000		ER32	2 - 20	120	50	141	38	10.5												
X1505	1+5	10'000	12'000	8	39	10'000		ER50	4 - 34	150	78	177	51	15												
XM1506	1+6	10'000	12'000	8	24	-		Weldon 25	10 - 40	150	60	264	35	-												
X1905	1+5	8'000	10'000	10	10	-		OZ1838	10 - 40	190	-	225	-	29												

Données techniques voir page 47

DOCUMENTATION
 sur demande
auf Anfrage
on request


■ :standard - Standard - standard ▲ :sur demande - auf Anfrage - on request

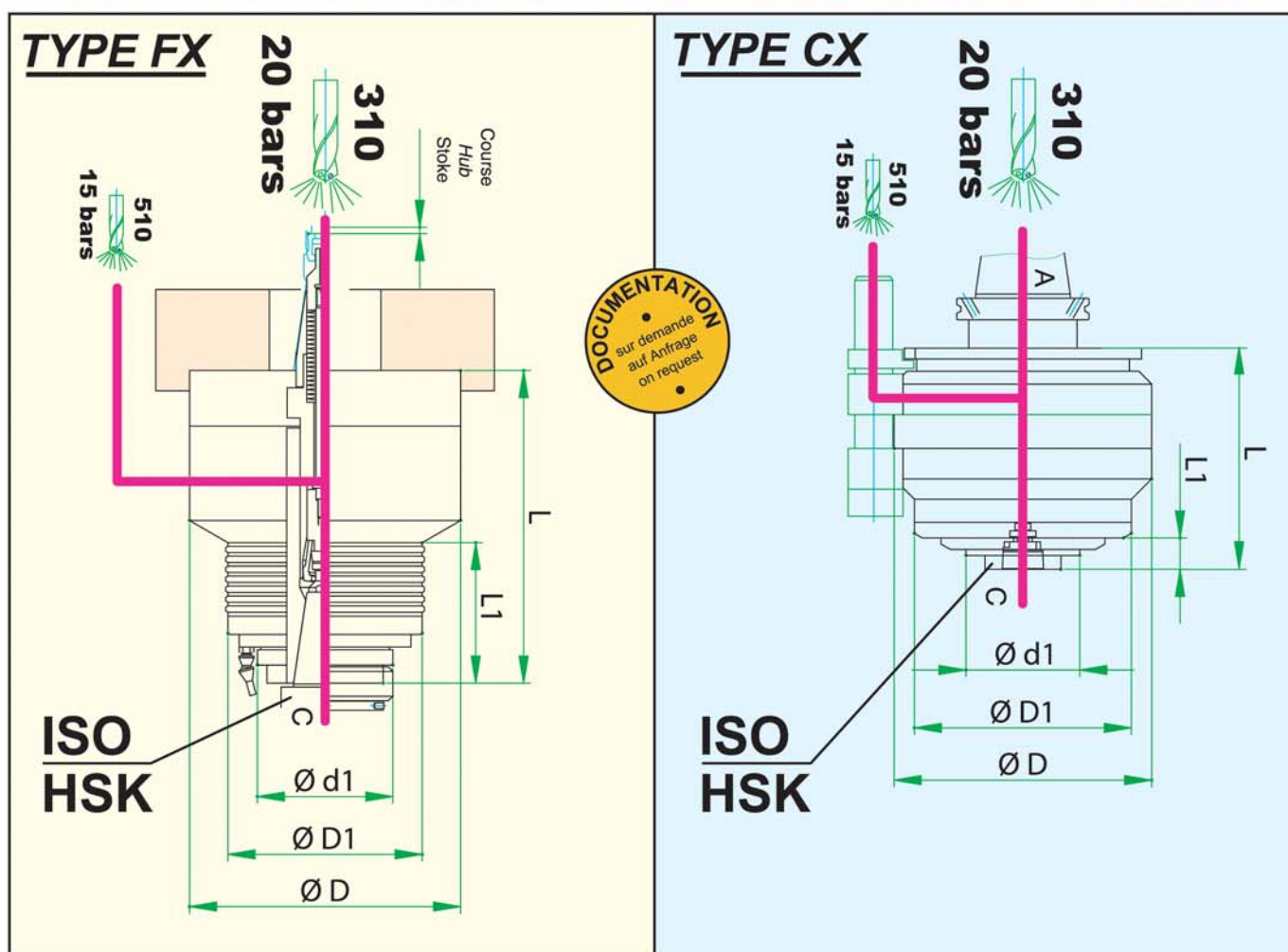
Caractéristiques / Angaben Features						Pince Zange Collet		Dimensions						 DIN - ISO - BT - CAT	
Type		n	n max	kW	Nm		d1	D	D1	L	L1	kg	40	45	50
076-5-510	1+5	16'000	18'000	3	5.6	ER16	0.5 - 10	76	32	116	28	3			
120-6-510	1+6	10'000	12'000	6	12	ER25	1 - 16	120	42	175	37	9			
150-6-510	1+6	8'000	11'000	8	20	OZ1837	5 - 32	150	78	237	51	20			

Données techniques voir page 47

Multiplicateur à grand rendement et de grande puissance
Schnellaufspindeln für hohe Produktivität und grosser Leistung
Speeders for high productivity and big power

30 kW

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Caractéristiques / Angaben Features							Dimensions					
Type		n	n max.	kW	Nm	C	d1	D	D1	L	L1	kg
FX190-05	1+5	10'000	12'000	10	130	ISO30/HSK50	121	190	150	210	130	30
FX210-04	1+4	8'000	10'000	12	260	ISO40/HSK63	142	210	185	240	138	45
FX300-04	1+4	6'000	8'000	20	405	ISO50/HSK100	150	300	220	346	156	110
FX375-06	1+6	4'000	5'000	30	830	ISO50/HSK100	180	375	250	385	129	190

Données techniques voir page 47

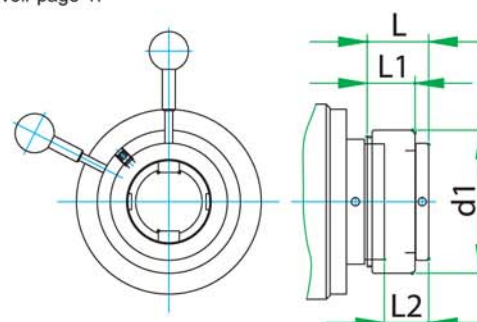
■ : standard - Standard - standard ▲ : sur demande - auf Anfrage - on request

Caractéristiques / Angaben Features										Dimensions				A 	
Type			n	n max.	kW	Nm	C	d1	D	D1	L	L1	kg	50	60
CX1905	1+5		8'000	10'000	10	190	ISO30/HSK50	121	190	160	230	60	29		
CX2104	1+4		8'000	10'000	12	260	ISO40/HSK63	150	210	186	240	80	38		
CX3504	1+4		4'000	5'000	30	1000	ISO50/HSK100	190	350	290	400	197	185		

Données techniques voir page 47

Ecrou de serrage rapide Pibomulti Schnellwechselmutter Pibomulti Pibomulti quick change nut

Type	Cône outils	d1	L	L1	L2
SER4001-000	ISO 40 DIN 2080	110	43.5	33	28.5
SER4002-000	ISO 40 DIN 69871-A ou CAT 40	110	43.5	33	28.5
SER4004-000	BT 40	110	47	37	32
SER5001-000	ISO 50 DIN 2080	150	48	37.5	30
SER5002-000	ISO 50 DIN 69871-A ou CAT 50	150	48	37.5	30
SER5004-000	BT 50	150	56.5	46	38.5



Option 310

Pression / Druck / Pressure 20 bars
Arrosage central avec entrée centrale.
Innere Kühlmittelzufuhr mit Eintritt durch das Zentrum.
Thru coolant with center input.

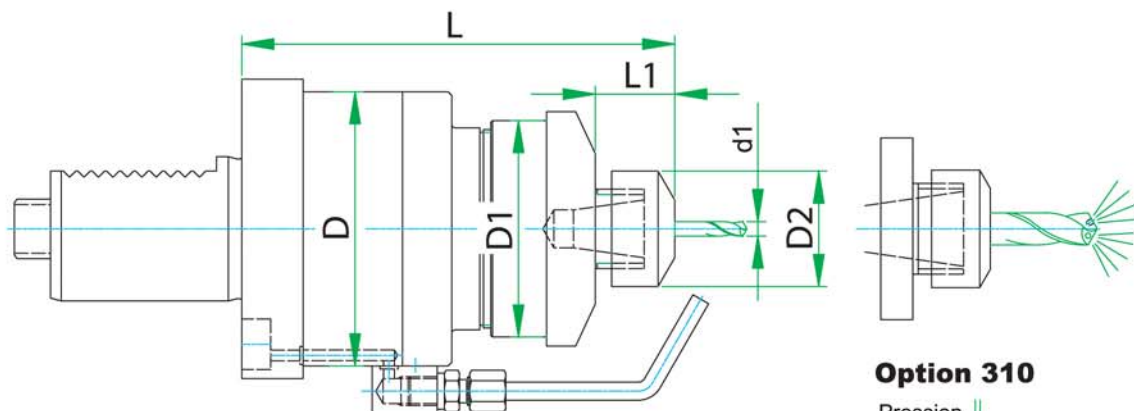
Option 510

Pression / Druck / Pressure 15 bars
Arrosage central avec entrée latérale.
Innere Kühlmittelzufuhr mit seitlichem Eintritt.
Thru coolant with side input.

Multiplicateur de vitesse pour tour
Schnellaufspindeln für Drehmaschinen
Spindle speeders for turning machines

**40'000
rpm**

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Option 310

Presson
Druck
Pressure

20 Bars

■ :standard - Standard - standard ▲ :sur demande - auf Anfrage - on request

Caractéristiques / Angaben Features													Pince Zange Collet					Dimensions					adaptation VDI					Entrainement selon machine Antrieb gem. Maschine Drive as per machine
Type		n	n max.	kW	Nm		d1	D	D1	D2	L	L1	20	25	30	40	50											
X635T	1+5	25'000	30'000	2	7	ESX12	0.5 - 7	63	48	19	98	17																
X9810T	1+10	36'000	40'000	2	5	ETS14	0.5 - 8	98	51	22	120	15.5																
X765T	1+5	18'000	22'000	4	12	ESX16	0.5 - 10	76	60	32	120	30																
X1055T	1+5	8'000	12'000	6.4	29	ESX25	1 - 16	105	90	-	120	10.5																
X1205T	1+5	12'000	15'000	7	34	ESX32	2 - 20	120	92	50	175	38																

Sur demande, exécution flasqué et/ou avec arrosage par le centre.
 Ausführung mit Flansch und/oder mit Innenkühlung auf Anfrage.
 Upon request, flange execution and/or with coolant thru.



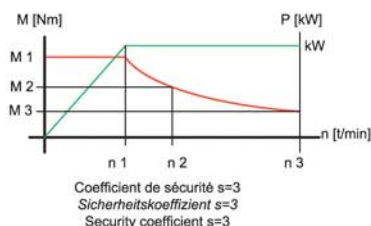
INFORMATIONS TECHNIQUES TECHNISCHE INFORMATIONEN

TECHNICAL INFORMATION

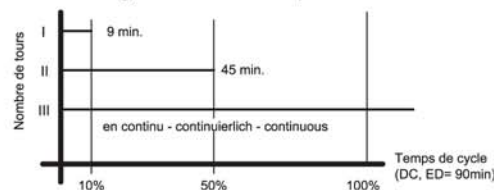
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Graphique de puissance-couple et " n " en continu Drehmoment und Dauerlaufdiagramm Power-torque and " n " in continuous diagram

Puissance et couple maxi
Leistung und Drehmoment max
Power and torque max



Temps d'utilisation en fonction de la vitesse
Einsatzdauer in Bezug zur max. Drehzahl
Using time in terms of speed



Type	Couple (Nm)			Nbr. de tours (t/min)			Puissance kW
	M1	M2	M3	n1	n2	n3	
X635	7	1.6	0.54	2'320	10'000	30'000	1.7
X766	8	2.7	0.9	3'340	10'000	30'000	2.8
X9810	5	1	0.5	3'800	20'000	40'000	2
X9810-50	5	1	0.4	3'800	20'000	50'000	2
X765	12	3.3	1.5	2'800	10'000	22'000	3.5
X986	18	4.3	2.1	3'390	10'000	20'000	4.5
X1055	29	6.1	3.6	2'100	10'000	17'000	6.4
X1057	5.7	3.8	2.1	6'700	10'000	18'000	4
X1205	34	6.7	4.4	2'000	10'000	15'000	7
X1505	39	15.3	6.3	2'000	5'000	12'000	8
XM1506	24	15.3	6.4	3'180	5'000	12'000	8
X1905	130	32	9.5	730	3'000	10'000	10
FX190-05 / CX1905	130	32	8	730	3'000	12'000	10
FX210-04 / CX2104	260	38	11.5	440	3'000	10'000	12
FX300-04	405	87	24	471	2'200	8'000	20
CX3504	1'000	280	125	300	1'000	2'300	30
FX375-06	830	130	57	345	2'200	5'000	30
X635T	7	1.9	0.6	2'700	10'000	30'000	2
X9810T	5	0.9	0.5	3'800	20'000	40'000	2
X765T	12	3.8	1.7	3'200	10'000	22'000	4
X1055T	29	7.7	5.1	2'100	8'000	12'000	6.4
X1205T	34	7.6	5	2'250	10'000	15'000	8

Type	Nbr. de tours (t/min)		
	I	II	III
X635	30'000	25'000	20'000
X766	30'000	25'000	20'000
X9810	40'000	36'000	28'800
X9810-50	50'000	44'000	35'200
X765	22'000	18'000	14'400
X986	20'000	16'000	12'800
X1055	17'000	13'000	10'400
X1057	18'000	15'000	12'000
X1205	15'000	12'000	9'600
X1505	12'000	10'000	8'000
XM1506	12'000	10'000	8'000
X1905	10'000	8'000	6'400
FX190-05 / CX1905	12'000	10'000	8'000
FX210-04 / CX2104	10'000	8'000	6'400
FX300-04	8'000	6'000	4'800
CX3504	5'000	4'000	3'200
FX375-06	5'000	4'000	3'200
X635T	30'000	25'000	20'000
X9810T	40'000	36'000	28'800
X765T	22'000	18'000	14'400
X1055T	12'000	8'000	6'400
X1205T	15'000	12'000	9'600



Données techniques

↔ : entrée - sortie
n : U/min 50% DC
n max. : U/min 10% DC
DC,ED : durée du cycle 90 min

kW : puissance en kW (n)
Nm : Couple Nm (n)
kg : poids en kg

Technische Daten

↔ : Eingang - Ausgang
n : U/Min 50% DC
n max. : U/Min 10% DC
DC,ED : Zyklusdauer 90 Min

kW : Leistung kW (n)
Nm : Drehmoment Nm (n)
kg : Gewicht in kg

Technical data

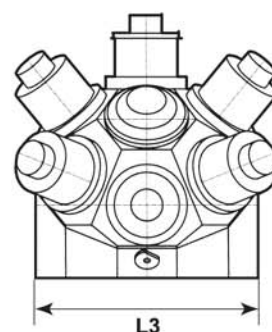
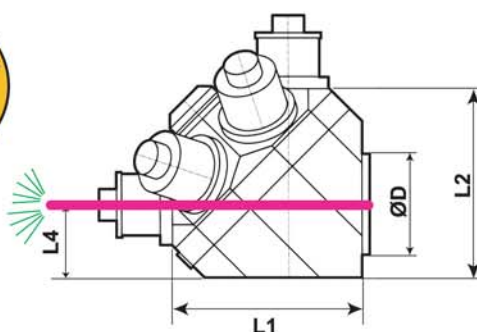
↔ : Input - output
n : rpm 50% DC
n max. : rpm 80% DC
DC,ED : duty cycle 90 Min

kW : power in kW (n)
Nm : torque Nm (n)
kg : weight in kg

Données techniques Technische Daten Technical data

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		TRI 150	TRI 200	TRI 300	TRI 400	TRH 300	TRH 400	TRH 500	TRH 800	TRA 200
NOMBRE DE POSITIONS ANZAHL STATIONEN NUMBER OF STATIONS		2-4-6	2-4-6-8	2-4-6	2-4-6	2-4-6-8	2-4-6-8-12	2-4-6-8	2-4-6-8	2-3-4
PUISSANCE TRANSMISSIBLE ÜBERTRAGBARE LEISTUNG TRANSMITTING POWER	kW max.	3.7	7	12	22	12	22	40	40	7
COUPLE TRANSMISSIBLE DREHMOMENT TRANSMITTING TORQUE	Nm	60	110	250	700	250	700	1700	3000	110
VITESSE DE ROTATION MAX. MAX SPINDELDREHZAHL MAX ROTATION SPEED	rpm	18'000	16'000	15'000	11'000	15'000	11'000	6'000	4'000	16'000
REPETABILITE DE LA POSITION WIEDERHOLBARKEIT DER SPINDELPOS. REPEAT OF SPINDLE POSITION		+/- 2" (0.0016 mm)	+/- 2" (0.0020 mm)	+/- 2" (0.0025 mm)	+/- 2" (0.003 mm)	+/- 2" (0.0025 mm)	+/- 2" (0.003 mm)	+/- 2" (0.0035 mm)	+/- 2" (0.004 mm)	0.01 mm
PRECISION DE POSITIONNEMENT POSITIONIERGENAUIGKEIT PRECISION OF POSITIONING		+/- 6" (0.005 mm)	+/- 6" (0.006 mm)	+/- 6" (0.007 mm)	+/- 6" (0.010 mm)	+/- 6" (0.007 mm)	+/- 6" (0.01 mm)	+/- 5" (0.01 mm)	+/- 5" (0.0125 mm)	0.01 mm
TEMPS D'INDEXION 1/6 DE TOUR INDEXIERUNGSZEIT 1/6 DER DREHUNG INDEXING TIME 1/6 OF ROTATION	s.	0.6	0.8	1	1.5	1	1.5	2.5	2.5	0.8
ENCOMBREMENT PLATZBEDARF DIMENSION	L1 (mm) L2 (mm) L3 (mm) L4 (mm) ØD (mm)	160 160 170 75 85	210 210 220 100 100	270 270 290 125 135	390 390 420 180 200	280 280 340 105 135	375 375 440 145 200	505 505 570 220 270	740 740 820 320 300	240 290 370 64 -
POIDS SANS OUTILLAGE GEWICHT OHNE WERKZEUG WEIGHT WITHOUT TOOL	kg	30	55	100	350	100	350	600	2000	100
ENTREE D'ARROSAGE PAR LE CENTRE INNERE KÜHLMITTELZUFUHR COOLANT THROUGH	bars (option 100)	50 (option 100)	50 (option 100)	50 (option 100)	50 (option 100)	50 (option 100)	50 (option 100)	50	50	50 (option 100)
PRESSION D'HUILE POUR INDEXION OELDRUCK FÜR REVOLVERINDEXIERUNG OIL PRESSURE FOR TURRET INDEX	bars	20 à 50	20 à 50	20 à 50	20 à 50	20 à 50	20 à 30	20 à 30	20 à 30	20 à 50



TRH 500

HSK 100
40 KW

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Une solution globale

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A global solution

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Module d'usage flexible
Das flexible Bearbeitungsmodul
The flexible machining module



TRH 806

TRH 404

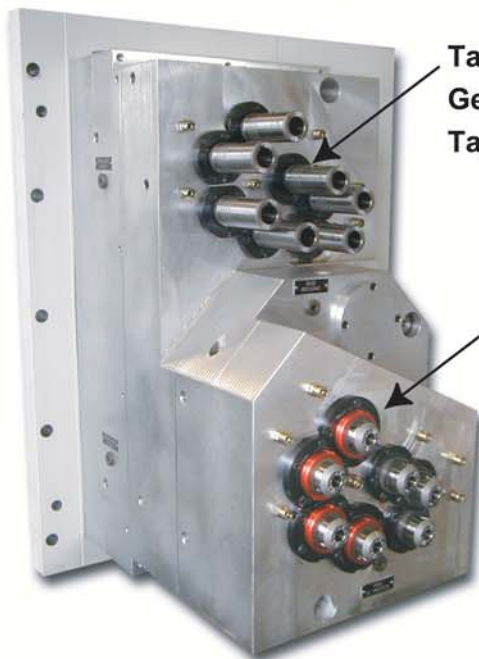
4 Multibroches / **184 broches**
4 Mehrspindelköpfe / **184 Spindeln**
4 Multispindle Heads / **184 Spindles**

Maîtrise global de l'usinage par l'apport d'accessoires PIBOMULTI
Durch PIBOMULTI-Zubehör beherrschen Sie alle Bearbeitungsaufgaben
PIBOMULTI accessories allow total control of the design and manufacture process



**Un savoir-faire
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Matchless know-how

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 Taraudage
Gewindeschneiden
Tapping

 Perçage
Bohren
Drilling

 Fraîsage, perçage et taraudage
sans changer d'outil

 Fräsen, Bohren und Gewindeschneiden
ohne das Werkzeug zu wechseln

 milling, drilling and tapping
without changing the tool

 Entraxes réduits (dès 4.5 mm)
Vitesse de rotation jusqu'à **40.000 min-1**

 Geringer Achsabstand (ab 4.5 mm)
Drehzahlen bis **40.000 min-1**

 Small spindle axis distance (from 4.5 mm)
Revolution up to **40'000 min-1**

 De l'horlogerie au moteur de bateau
Von der Uhrenindustrie bis zum Schiffsmotor
From watchmaking to shipbuilding

Une solution
à chaque problème

Zu jedem Problem
eine Lösung

A solution
to each problem

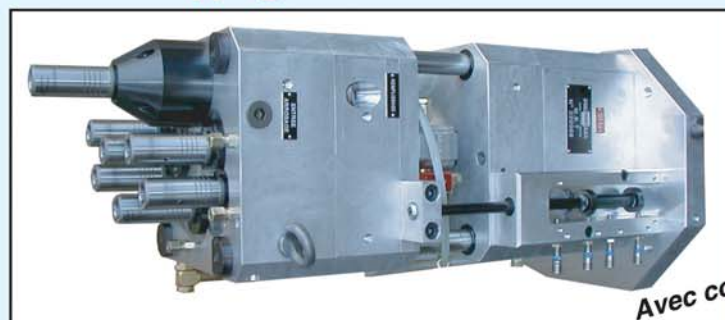
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Tête de taraudage à patronne

Gewindeschneidkopf mit Leitpatrone

Tapping head with lead screw



Différents pas dans la même opération
Verschiedene Steigung in der gleichen Operation
With different pitches in the same operation

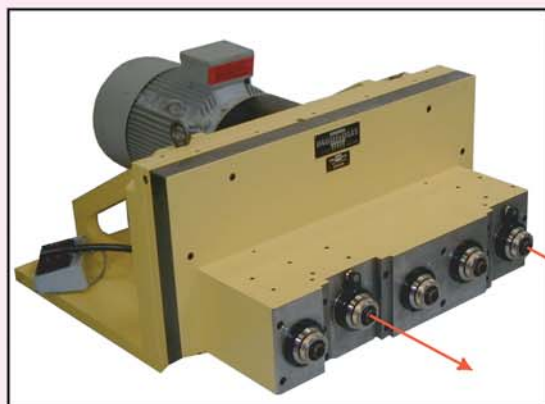
Avec contrôle électrique
Mit elektrischer Kontrolle
With electrical control



Têtes à broches alternées

Köpfe mit abwechselnden Spindeln

Multi heads with alternating spindles



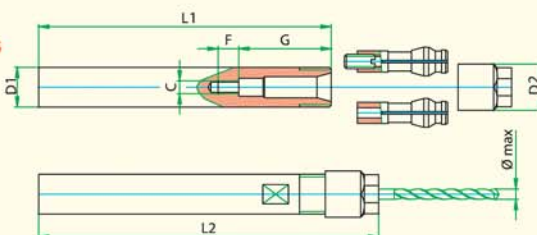
3 broches fixes / 2 mobiles
3 fixe Spindeln, 2 Vorschübe Spindeln
3 fixed spindles, 2 stroke spindles



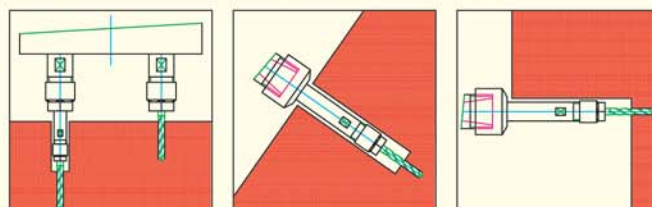
Rallonges de broches miniatures

Miniaturspindelverlängerungen

Minispindle extensions



Type	D1	D2	L1	L2	G	F	C	Ø max	Pince Spannzange Collet	Ecrou Mutter Nut	SW
04200	5	5	60	63	9	--	--	2	00403A	00402A	SW4
05200	6	6.35	80	83.5	18	--	--	2.2	0503	00502	SW5
06200	6	8.5	80	84.5	23	6	M3	3	0603	00602	SW5
07200	8	9.5	100	105	23	6	M3	3.5	0703	00702	SW7
08200	8	10.5	100	105	25	8	M4	4.3	0803	00802	SW7
10200	10	13	100	106	24.5	8	M4	5.3	1003	01002	SW9
12200	12	15.5	120	126.5	24.5	15	M5	6.5	1203	01202	SW11
15200	16	19	120	127.5	24.5	20	M6	8.5	1502	01502	SW13





Moyens de production

Notre production est assurée par nous même à 95 %, seuls les traitements thermiques et les travaux spécifiques sont réalisés en externe.

Ceci nous donne une grande souplesse de travail et d'organisation et nous permet d'optimiser les délais de fabrication et les impératifs de nos clients.

Le parc de machine est très important, moderne et de première qualité afin d'assurer les charges de production ainsi que la précision exigée.

Un personnel très qualifié à la hauteur de notre réputation, un savoir-faire d'horloger au service de la mécanique de haute précision nous permet de satisfaire pleinement aux sévères exigences de notre clientèle mondiale, et fait de PIBOMULTI un partenaire fiable et compétent dans le domaine de la haute production, principalement dans l'industrie automobile.



Betriebsmittel

Aufgrund der sehr hohen Fertigungstiefe (ca. 95%, ausgenommen Wärmebehandlung) sind wir in der Lage, schnell und flexibel auf Kundenwünsche zu reagieren und Fabrikationsabläufe zu optimieren.

Unser umfangreicher und modernster Maschinenpark ermöglicht es uns, die hohen Qualitätsanforderungen unserer Kunden zu erfüllen.

Dies in Verbindung mit unserem qualifizierten Personal, ausgestattet mit "Uhrmacherwissen" und Erfahrung in der Hochpräzisionsmechanik, sind wir jetzt und in der Zukunft für unsere Kundschaft ein zuverlässiger und kompetenter Partner.



Physical Plant and Equipment

Ninety-five percent of the manufacturing processes necessary to produce PIBOMULTI products is provided in-house.

Only heat-treating and other specialized items such as surface treatments are outsourced.

Large industrial groups or small shops - all our customers have remained loyal to PIBOMULTI over the years, and have come to rely upon the quality, delivery and service that are the hallmarks of our company.



Works 1 : 3000 m2	Administration & assembly Dept.	120 employee
Works 2 : 4500 m2	Technical office, sales and production	
Construction office	CAD	Autocad : 13 stations / Solidworks : 6 stations
Computer	GPAO	Prodstar II : 12 stations

Boring machines

7 SIP / 3 DIXI

Machining centres

(CNC 4 axes)

1 DIXI in palettisation

1 OKUMA 6 palettes - 1 MAZAK

Machining centre

(CNC 5 axes)

REIDEN 3000 x 1500 x 1200

Centres of vertical manufacturing (3 axes) CNC

4 MIKRON

CNC Turning Centres (5 axes)

1 OKUMA MACTURN 50 - 72 tools

1 MAZAK 300 - 2 spindles 40 tools

1 MAZAK 200 - 40 tools

CNC Turning Centres

Motorized tools

TRAUB - NAKAMURA - OKUMA - CINCINNATI

10 machines

Tour Teach in

GILDMEISTER - CAZENEUVE - HARRISON

7 machines

CNC grinding inside - outside

TSCUDIN - KELLENBERG

STUDER - VOUMARD 150 CNC

Conventional grinding inside - outside

8 machines

Thread grinding

RHEISAUHER

Cutting gearings CNC

PFAUTER GLEASON

3D CMM

2 DEA SCIROCCO 900 x 1000 x 1500

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