

testarossa d'andrea

TS

TR-E

TRM

TRM HSB

2 μ m

2 μ m

2 μ m

• TS 16/16
Ø 18 ~ 22



p.38

• TS 20/20
Ø 22 ~ 28



p.38

• TS 25/25
Ø 28 ~ 38



p.38

• TS 32/32
Ø 35.5 ~ 50



p.38

• TS 40/40
Ø 50 ~ 68



p.38

• TS 50/50
Ø 68 ~ 90



p.39

• TS 50/63
Ø 90 ~ 120



p.39

• TS 63/63
Ø 90 ~ 120



p.39

• TS 80/80
Ø 120 ~ 200



p.39

• TRM 16
Ø 18 ~ 23



p.62

• TRM 20
Ø 22 ~ 29



p.62

• TRM 25
Ø 28 ~ 38



p.62

• TR-E 32
Ø 35.5 ~ 51.5



p.46

• TRM 32
Ø 35.5 ~ 51.5



p.62

• TR-E 40
Ø 48 ~ 64



p.47

• TRM 40
Ø 48 ~ 63



p.62

• TR-E 50
Ø 2.5 ~ 110



p.48

• TRM 50
Ø 2.5 ~ 108



p.64

• TRM 50/63
Ø 2.5 ~ 125



p.68

• TRM 50/80
Ø 2.5 ~ 160



p.72

• TRM 32 HSB
Ø 2.5 ~ 18



p.108

• TRM 50 HSB
Ø 2.5 ~ 22



p.110

• TR-E 63
Ø 6 ~ 125



p.52

• TRM 63/63
Ø 2.5 ~ 125



p.68

• TR-E 80
Ø 6 ~ 200



p.56

• TRM 80/80
Ø 2.5 ~ 160



p.72

• TRM 80/125
Ø 36 ~ 500



p.76

BORING SYSTEM

TRC

• **TRC 14**
 Ø 14.5 ~ 18
 p.92

• **TRC 16**
 Ø 18 ~ 24
 p.92

• **TRC 20**
 Ø 22 ~ 30
 p.92

• **TRC 25**
 Ø 28 ~ 40
 p.92

• **TRC 32**
 Ø 35.5 ~ 53.5
 p.92

• **TRC 40**
 Ø 48 ~ 66
 p.92

• **TRC 50**
 Ø 2.5 ~ 110
 p.94

• **TRC 63**
 Ø 6 ~ 125
 p.98

• **TRC 80**
 Ø 6 ~ 200
 p.102

TRC HS TRD

• **TRD 25**
 Ø 28 ~ 36
 p.114

• **TRC 32 HS**
 Ø 2.5 ~ 18
 p.108

• **TRD 32**
 Ø 36 ~ 46
 p.114

• **TRD 40**
 Ø 46 ~ 60
 p.114

• **TRC 50 HS**
 Ø 2.5 ~ 22
 p.110

• **TRD 50**
 Ø 60 ~ 75
 p.114

• **TRD 63**
 Ø 75 ~ 95
 p.114

• **TRD 80**
 Ø 95 ~ 160
 p.114

BPS

• **TR-E 200**
 p.86

• **TR 200**
 p.86

• **BPS 200 - 800**
 Ø 200 ~ 1200
 p.82-83

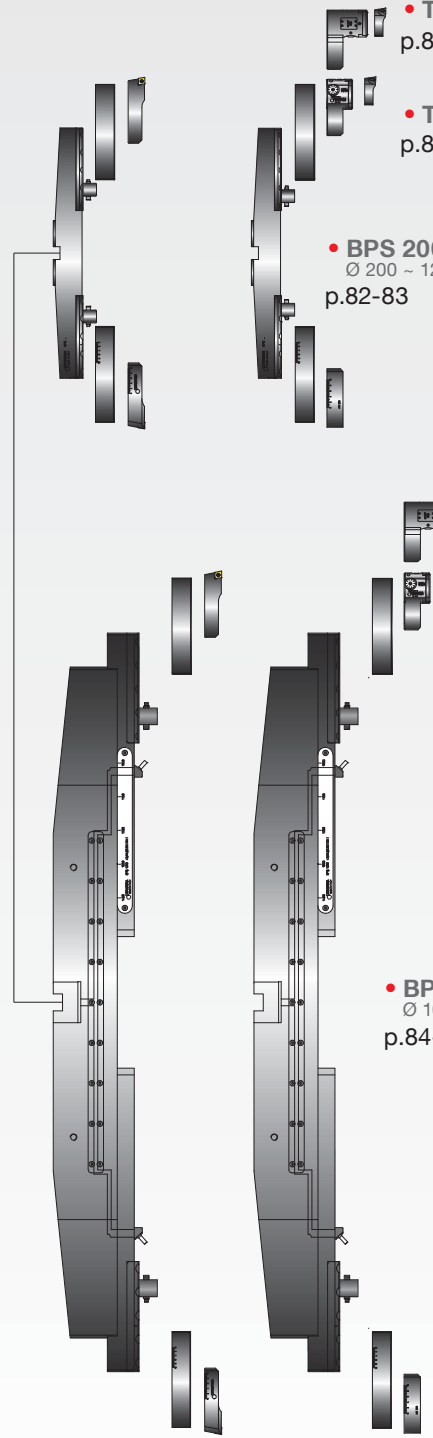
2µm

• **TR-E 200**
 p.86

• **TR 200**
 p.86

2µm

• **BPS 1000 - 1600 GD**
 Ø 1000 ~ 2700
 p.84-85



- DOUBLE-BIT HEADS
- ДВУХРЕЗЦОВЫЕ ГОЛОВКИ
- GŁOWICE DWUNOŻOWE
- DVOUHROTOVÉ HLAVY
- ÇİFT UÇLU KAFALAR



- 1**
- Body
 - Корпус
 - Korpus
 - Tělo
 - Gövde
- 2**
- Setting screws
 - Регулировочный винт
 - Śruba regulacyjna
 - Nastavovací šrouby
 - Ayar vidaları

- 3**
- Expanding pin
 - Разжимной радиальный штифт
 - Sworzeń promieniowy rozprężny
 - Rozširjujci kolík
 - Genişletme pimi
- 4**
- Coolant outlets
 - Отверстия для выхода хладагента
 - Otwory wylotowe cieczy chłodzącej
 - Výstupy chladiva
 - Soğutma sıvısı çıkışları
- 5**
- Bit holders
 - Кассета головки
 - Wytaczak
 - Hrotové držáky
 - Matkap kovanları
- 6**
- Tools clamp screws
 - Зажимные винты инструмента
 - Śruby blokujące narzędzie
 - Upínací šrouby nástroje
 - Takımların sıkma vidaları

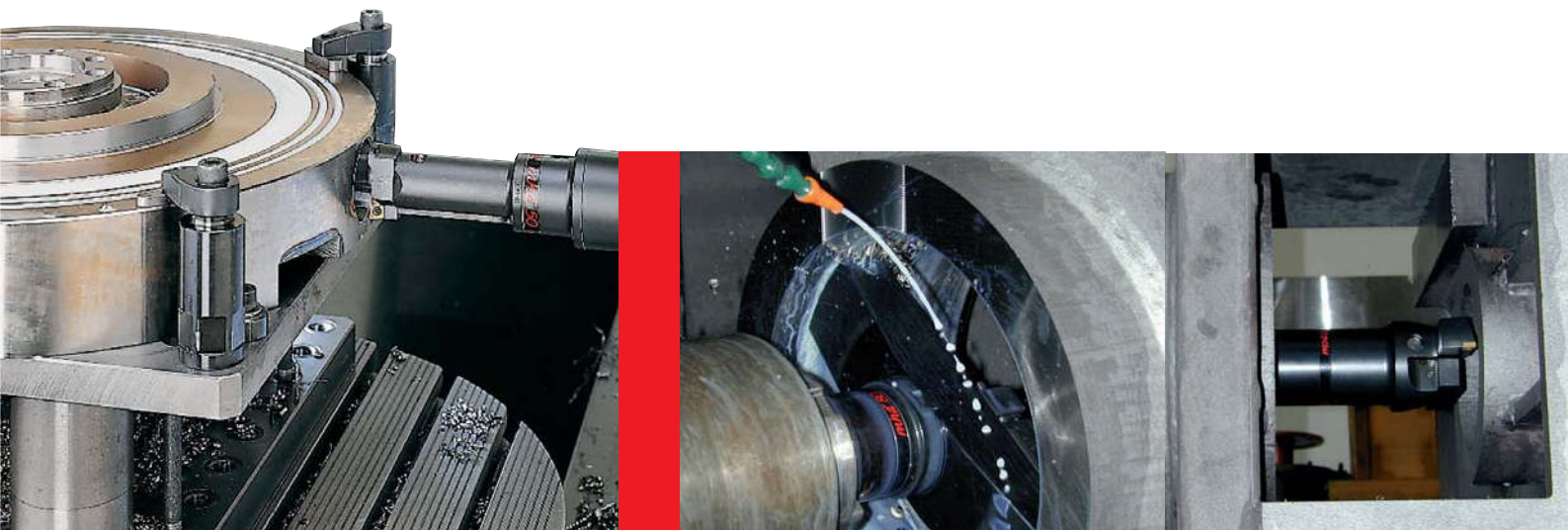
GB The double-bit heads are easy and extremely rigid thanks to the extensive area serrated with contacts between the bit holder and upper insert holder and the heads, together with the constant distance between the seat of the clamping screws and the cutter.

RU Двухрезцовые головки просты и очень стабильны благодаря зубчатым поверхностям соединения между кассетой головки и самой головкой, а также неизменному расстоянию между зажимным винтом кассеты и режущей кромкой.

PL Głowice dwunożowe są bardzo sztywne i proste w budowie. Wysoką sztywność układu uzyskano dzięki szerokim, ząbkowanym powierzchniom styku pomiędzy wytaczakami a samymi głowicami. Dodatkową zaletą jest stała odległość pomiędzy śrubą mocującą końcówkę, a ostrzem skrawającym.

CZ Dvuhrotové hlavy jsou volné a extrémně pevné díky rozsáhlé oblasti zoubkované s kontaktem mezi hrotovým držákem a horním držákem vložky a hlavami, současně s konstantní vzdáleností mezi ložem upínacích šroubů a frézou.

TR Çift uçlu kafalar, kovan ile üst geçme yuvası ve kafalar arasındaki temas sonucu tırtılanmış geniş alan ve kenetleme vidaları ile kesici yatağı arasındaki sabit mesafe sayesinde son derece sağlam ve kullanımı kolaydır.



- **DOUBLE-BIT HEADS**
- **ДВУХРЕЗЦОВЫЕ ГОЛОВКИ**
- **GŁOWICE DWUOŻOWE**
- **DVOUHROTOVÉ HLAVY**
- **ÇİFT UÇLU KAFALAR**

GB USE. The radial setting of the cutting edges should be carried out with tool presetting equipment. The boring bars are fitted with two bit holders for roughing operations involving heavy chip removal. The double-bit boring bars may include:

RU ИСПОЛЬЗОВАНИЕ. Радиальная настройка режущих кромок должна выполняться на специальном устройстве предварительной настройки. Используются с двумя кассетами для черновых операций с большим количеством снимаемого материала. Двухрезцовые расточные оправки могут состоять из:

PL ZASTOSOWANIE. Średnicę ostrzy skrawających należy regulować na stole typu pre-set. Podczas operacji wytaczania zgrubnego z nadatkami najczęściej wykorzystujemy dwa ostrza skrawające. Wytaczarki dwułożowe mogą składać się z:

CZ POUŽITÍ. Radiální nastavení frézovacích hran je nutno provést pomocí zařízení na přednastavení nástrojů. Vyrťávací tyče se připevní pomocí dvou hrotových držáků pro operace hrubování zahrnující odstraňování velkých špon. Dvuhrotové vyrťávací tyče mohou zahrnovat:

TR KULLANIM. Kesme kenarlarının radyal ayarı, alet ön ayarlama ekipmanı ile yapılmalıdır. Delik açma çubukları, ağır talaş giderimi gibi kaba işleme faaliyetleri için iki adet kovanla donatılmıştır. Çift uçlu delik açma çubukları şunları içerebilir:

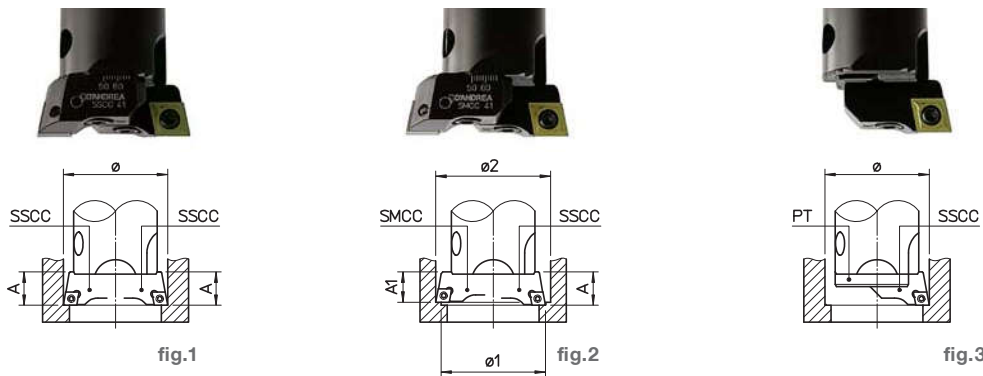


fig. 1 **GB** two SSCC bit holders on the same plane and with the two cutting edges set at identical radial distance for high feed rate roughing operations.

- RU** двух кассет SSCC, установленных в одной плоскости, соответственно с двумя режущими кромками, установленными с одинаковым радиальным вылетом, - для черновых операций с большим объемом подачи;
- PL** dwa ostrza SSCC ustawione na tej samej rednicy wytaczania, co umo liwia wytaczanie zgrubne z du ymi posuwami.
- CZ** dva SSCC hrotové držáky v téže rovině a se dvěma frézovacími hranami nastavenými v identické radiální vzdálenosti pro provádění operací hrubování za vysoké rychlosti přísmu.
- TR** aynı düzlem üzerinde bulunan iki SSCC matkap kovani ve iki kesme kenarı, yüksek besleme hızında gerçekleştirilen kaba işleme faaliyetleri için eşit radyal mesafe sunar.

fig. 2 **GB** an SSCC bit holder and an SMCC bit holder not at the same plane and with the two cutting edges set at different radial distances for high cutting depth roughing operations.

- RU** из кассеты SSCC и ниже – из кассеты SMCC, помещенных на разных уровнях, соответственно с двумя режущими кромками, установленными с разным радиальным вылетом- для черновых операций с большой глубиной резания;
- PL** jeden nóż typu SSCC i drugi nóż obniżony typu SMCC. Noże ustawione na różnych wysokościach i średnicach. Wariant ten umożliwia obróbkę zgrubną z dużą głębokością przejścia.
- CZ** hrotový držák SSCC a hrotový držák SMCC nikoli v téže rovině a se dvěma frézovacími hranami nastavenými v různé radiální vzdálenosti pro provádění operací hrubování s velkou hloubkou frézování.
- TR** aynı düzlem üzerinde bulunmayan bir SSCC matkap kovani ve bir SMCC matkap kovani , yüksek kesme derinliğinin söz konusu olduğu kaba işleme faaliyetleri için farklı radyal mesafeler sunar.

fig. 3 **GB** the boring bars are fitted with a single bit holder for roughing and finishing operations involving normal chip removal. The serrated surface protection plate PT should always be fitted.

- RU** из одной кассеты, для черновых и чистовых операций с нормальным количеством снимаемого материала. Для защиты зубчатой поверхности необходимо устанавливать пластину PT.
- PL** wykorzystywane jest tylko jedno ostrze do obróbki wykończeniowej lub zgrubnej przy normalnym usuwaniu wiórow. Nie należy zapominać o obowiązkowym montażu płytki PT, zabezpieczającej powierzchnię ząbkowaną.
- CZ** vyrťávací tyče se připevní pomocí jednoho hrotového držáku pro operace hrubování a finální úpravy zahrnující odstraňování normálních špon. Vždy je nutno připevnit zoubkovanou desku PT pro ochranu povrchu.
- TR** delik açma çubukları, normal talaş giderimi gibi kaba işleme ve bitirme faaliyetleri için tekli kovanla donatılmıştır. Tırtıklı yüzey koruma plakası PT mutlaka takılmalıdır.

TS 16/16 Ø 18 ~ 22



TS 20/20 Ø 22 ~ 28



TS 25/25 Ø 28 ~ 38



TS 32/32 Ø 35.5 ~ 50



TS 40/40 Ø 50 ~ 68



TS 50/50 Ø 68 ~ 90



TS 50/63 Ø 90 ~ 120



TS 63/63 Ø 90 ~ 120



TS 80/80 Ø 120 ~ 200

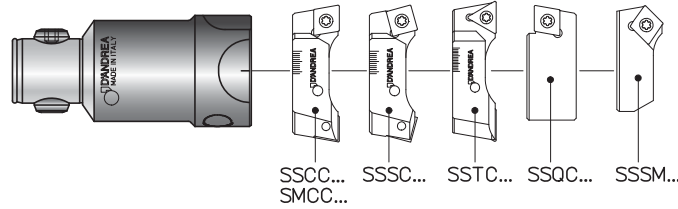


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MODULHARD'ANDREA

TS 16~40 Ø 18 ~ 68

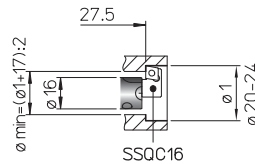
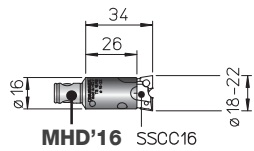
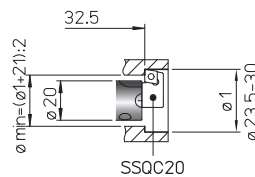
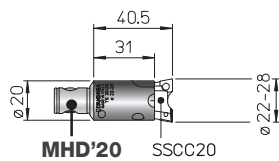
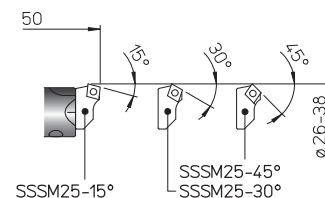
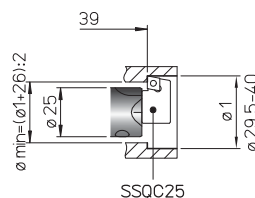
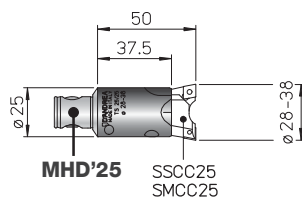
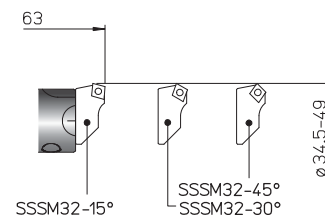
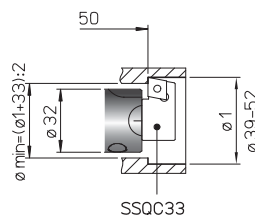
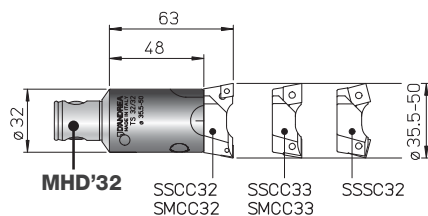
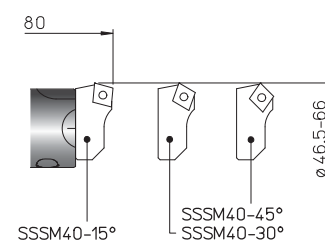
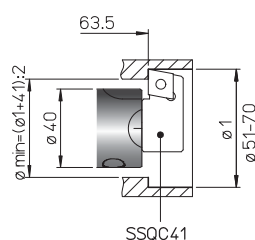
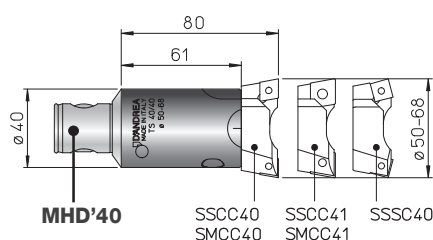
- DOUBLE-BIT HEADS
- ДВУХРЕЗЦОВЫЕ ГОЛОВКИ
- GŁOWICE DWUNOŻOWE
- DVOUHROTOVÉ HLAVY
- ÇİFT UÇLU KAFALAR



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REF.	CODE	Kg.
TS 16/16	455501600340	0.05
TS 20/20	455502000400	0.09
TS 25/25	455502500500	0.2
TS 32/32	455503200630	0.35
TS 40/40	455504000800	0.7

REF.	CODE	Kg.
TS 50/50	455305001000	1.5
TS 50/63	455306300800	2
TS 63/63	455406301250	3
TS 80/80	455408001400	5.3


TS 16/16
Ø 18 ~ 22

TS 20/20
Ø 22 ~ 28

TS 25/25
Ø 28 ~ 38

TS 32/32
Ø 35.5 ~ 50

TS 40/40
Ø 50 ~ 68

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120

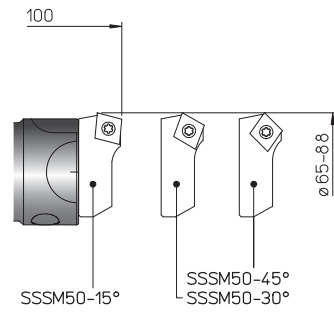
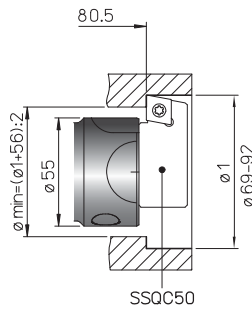
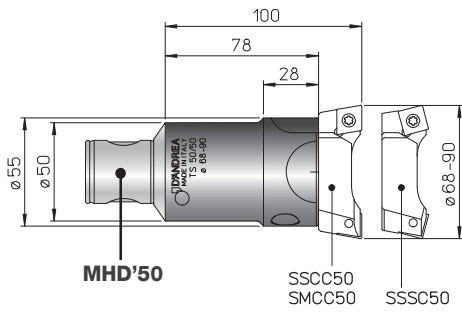


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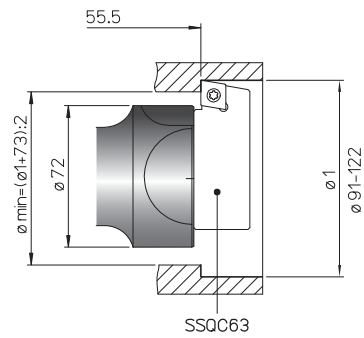
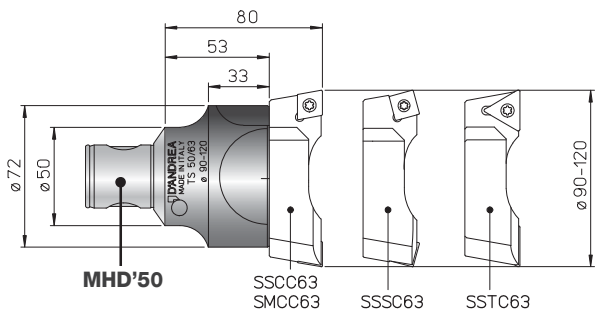


TS 50~80 Ø 68 ~ 200

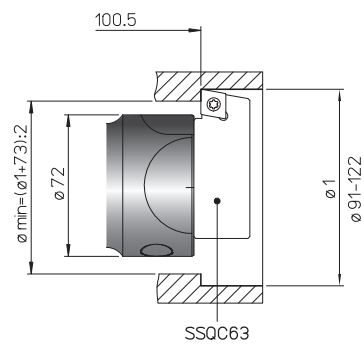
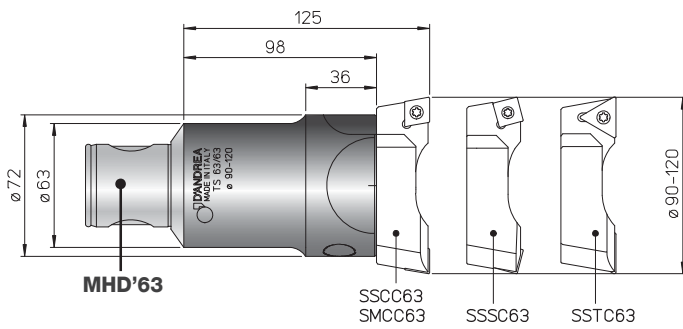
- DOUBLE-BIT HEADS
- ДВУХРЕЗЦОВЫЕ ГОЛОВКИ
- GŁOWICE DWUNOŻOWE
- DVOUHROTOVÉ HLAVY
- ÇİFT UÇLU KAFALAR



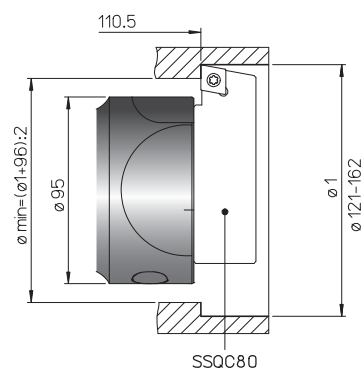
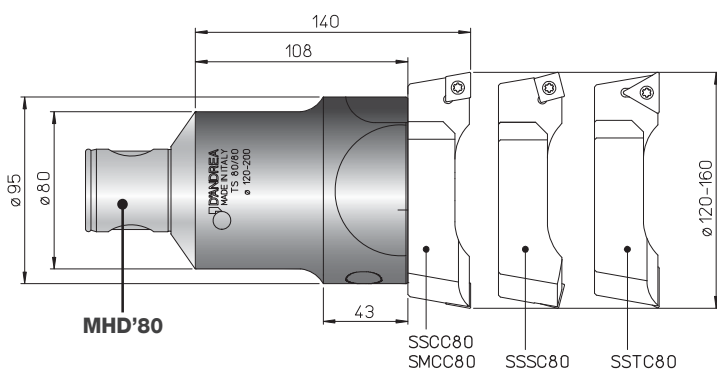
TS 50/50
Ø 68 ~ 90



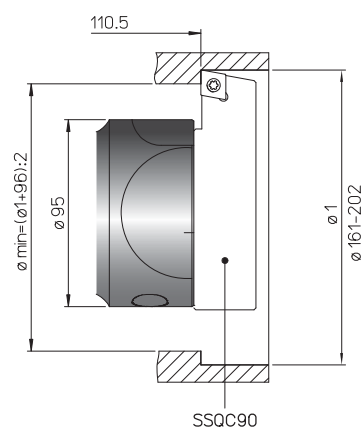
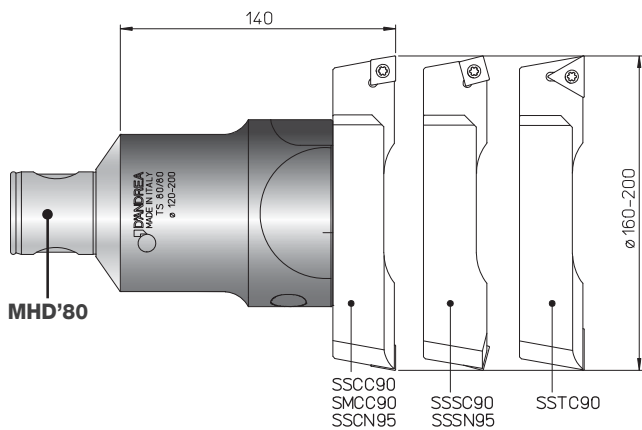
TS 50/63
Ø 90 ~ 120



TS 63/63
Ø 90 ~ 120



TS 80/80
Ø 120 ~ 160



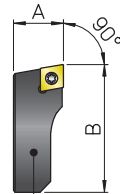
Ø 160 ~ 200

D'ANDREA

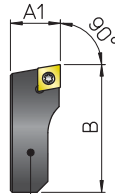
MODULHARD'ANDREA

- BIT-HOLDERS FOR DOUBLE-BIT ITEMS
- КАСЕТЫ ДЛЯ ДВУХРЕЗЦОВЫХ ГОЛОВОК
- OSTRZA GŁOWIC DWUNOŻOWYCH
- HROTOVÉ DRŽÁKY PRO DVOUHROTOVÉ DÍLY
- ÇİFT UÇLU EKİPMAN İÇİN MATKAP KOVANLARI

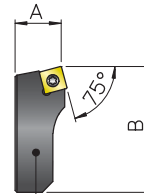
SSCC - SMCC - SSSC



SSC...



SMCC...

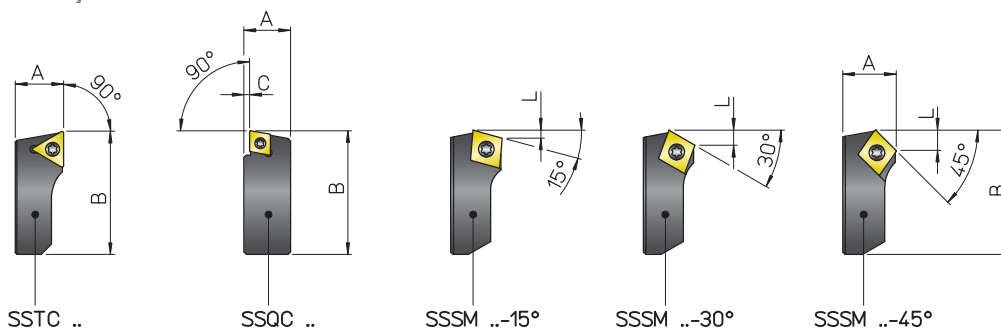


SSS...

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SSCC 16	470500516201	8		15	CCMT 0602..	-	TS 25	TORX T08	0.003
SSCC 20	470500520201	9.5	-	19					0.006
SSCC 25	470500525201	12.5	-	23					0.01
SSCC 32	470500532201	15	-	32					0.02
SSCC 33	470500532204					0.025			
SSCC 40	470500540201	19	-	40	CCMT 09T3..	-	TS 4	TORX T15	0.06
SSCC 41	470500540204								
SSCC 50	470500550204	22	-	54	CCMT 1204..	-	TS5	TORX T25	0.1
SSCC 63	470500563201	27	-	70.5					0.2
SSCC 80	470500580201	32	-	94.5					0.5
SSCC 90	470500590201	32	-	130					0.7
SSCN 95	470500595201	40			CNM. 1906..		p. 126		0.9
SMCC 25	470500525203	-	12.3	23	CCMT 0602..	-	TS 25	TORX T08	0.01
SMCC 32	470500532203	-	14.8	32					0.02
SMCC 33	470500532205	-	18.7	40	CCMT 09T3..	-	TS 4	TORX T15	0.025
SMCC 40	470500540203	-							0.06
SMCC 41	470500540205				CCMT 1204..	-	TS 5	TORX T25	0.06
SMCC 50	470500550205		21.7	54					0.1
SMCC 63	470500563203		26.7	70.5					0.2
SMCC 80	470500580203		31.7	94.5					0.5
SMCC 90	470500590203			130	0.7				
SSSC 32	470500532202	15	-	32	-	SCMT 09T3..	TS 4	TORX T15	0.02
SSSC 40	470500540202	19	-	40					0.06
SSSC 50	470500550202	22	-	54	-	SCMT 1204..	TS 5	TORX T25	0.1
SSSC 63	470500563202	27	-	70.5					0.2
SSSC 80	470500580202	32	-	94.5					0.5
SSSC 90	470500590202	32	-	130					0.7
SSSN 95	470500595202	40			SNM. 1906..		p. 126		0.9

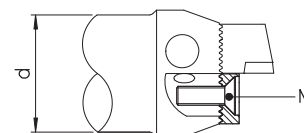
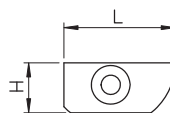


- BIT-HOLDERS FOR DOUBLE-BIT ITEMS
- КАССЕТЫ ДЛЯ ДВУХРЕЗЦОВЫХ ГОЛОВОК
- OSTRZA GŁOWIC DWUNOŻOWYCH
- HROTOVÉ DRŽÁKY PRO DVOUHROTOVÉ DÍLY
- ÇİFT UÇLU EKİPMAN İÇİN MATKAP KOVANLARI

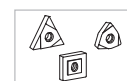


REF.	CODE	A	B	C	L	△	□	⌋	⌋	Kg.				
SSTC 63	470500563206	27	70.5							0.2				
SSTC 80	470500580206	32	94.5	-	-	TCMT 2204..	-	TS 5	TORX T25	0.5				
SSTC 90	470500590206		130							0.7				
SSQC 16	470500516261	10	16	2	-	-	CCMT 0602..	TS 25	TORX T08	0.005				
SSQC 20	470500520261	11	19.5	1.5						0.008				
SSQC 25	470500525261	14.5	24	2.5						0.02				
SSQC 33	470500533261	17	32	3						0.03				
SSQC 41	470500541261	21	42	3.5						0.08				
SSQC 50	470500550261	24.5	57							0.15				
SSQC 63	470500563261	28.5	76							0.3				
SSQC 80	470500580261	31.5	101	-						-	CCMT 1204..	TS 5	TORX T25	0.6
SSQC 90	470500590261		122											0.8
SSSM 25-15°	470500525211	12.5	23	-	1.6	-	CCMT 0602..	TS 25	TORX T08	0.01				
SSSM 25-30°	470500525213				3									
SSSM 25-45°	470500525215				4.3									
SSSM 32-15°	470500532211	15	31	-	1.6	-	CCMT 09T3..	TS 4	TORX T15	0.025				
SSSM 32-30°	470500532213				3									
SSSM 32-45°	470500532215				4.3									
SSSM 40-15°	470500540211	19	39	-	2.4	-	CCMT 09T3..	TS 4	TORX T15	0.06				
SSSM 40-30°	470500540213				4.6									
SSSM 40-45°	470500540215				6.5									
SSSM 50-15°	470500550211	22	53	-	3.2	-	CCMT 1204..	TS 5	TORX T25	0.1				
SSSM 50-30°	470500550213				6.2									
SSSM 50-45°	470500550215				8.8									

- COVER PLATES
- РИФЛЕНАЯ ЗАЩИТА
- ZABEZPIECZENIE POWIERZCHNI ZABKOWANEJ
- KRYCÍ DESKY
- KAPAK PLAKALARI



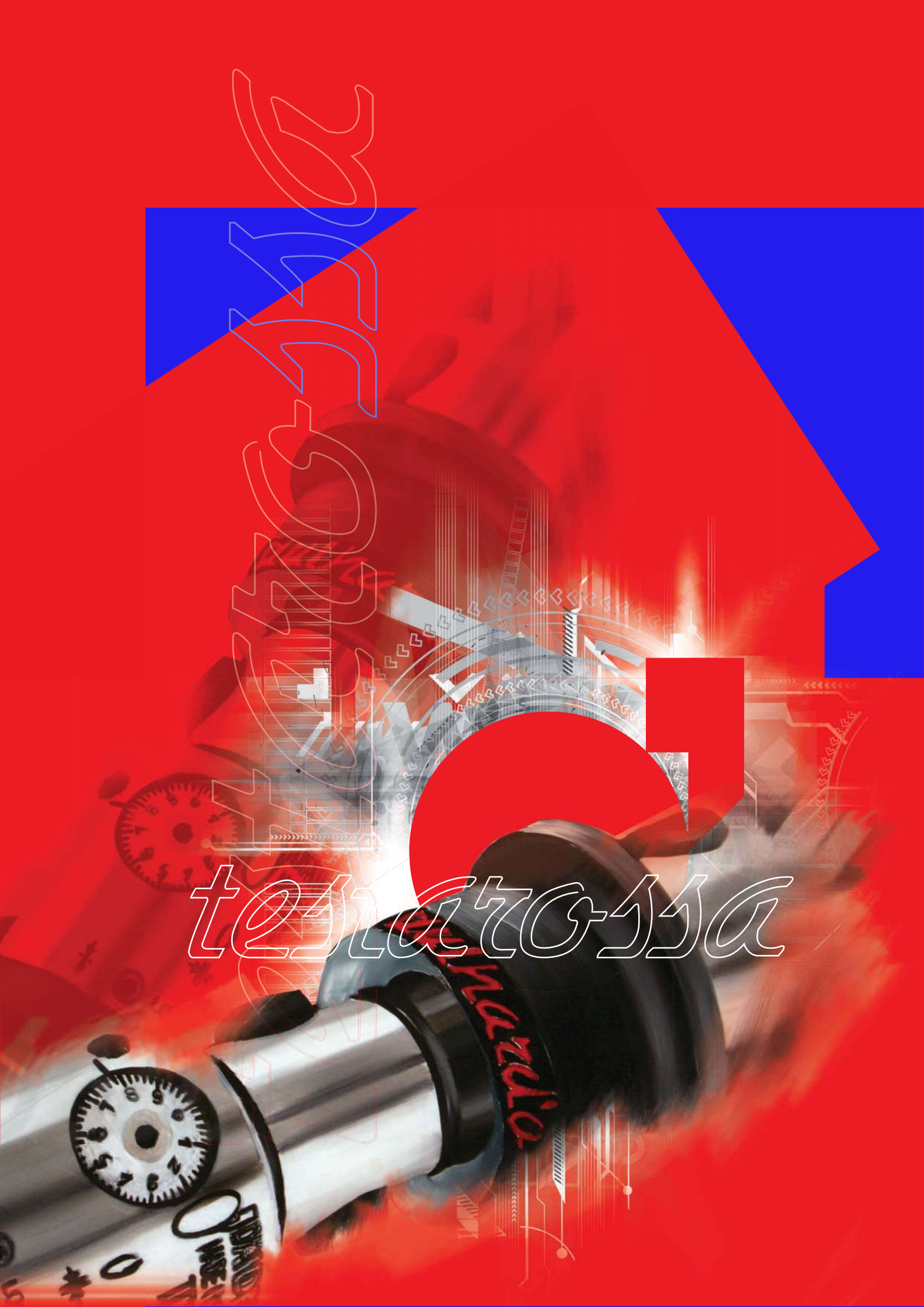
REF.	CODE	d	H	L	M
PT 16	384765000160	16	7	14	M 3x12
PT 20	384765000200	20	8.5	17	M 4x14
PT 25	384765000250	25	10.2	21	M 4x16
PT 32	384765000320	32	13.9	28	M 5x20
PT 40	384765000400	40	17.4	35	M 6x25
PT 50	384765000500	50	21.4	47.5	M 8x25
PT 63	384765000630	63	26.4	62	M 10x30
PT 80	384765000800	80	33.9	82.5	M 12x35



testarossa d'andrea

testar





testo



- | | | |
|--|---|---|
| <p>1</p> <ul style="list-style-type: none"> • Expanding radial pin • Разжимной радиальный штифт • Promieniowy sworzeń rozporowy • Rozširující radiální kolík • Radyal genişletme pimi <p>2</p> <ul style="list-style-type: none"> • Body • Корпус • Korpus • Tělo • Gövde <p>3</p> <ul style="list-style-type: none"> • Set screw • Установочный винт • Śruba ustawcza • Nastavovací šroub • Ayar vidası <p>4</p> <ul style="list-style-type: none"> • Slide toolholder • Салазки • Sanie narzędziowe • Nástrojový držák šoupátka • Kayar takim tutucu <p>5</p> <ul style="list-style-type: none"> • Bit holder • Кассета головки • Wytaczak • Hrotový držák • Matkap kovani <p>6</p> <ul style="list-style-type: none"> • Tools clamp screws • Зажимные винты инструмента • Śruba blokująca narzędzie • Upinací šrouby nástroje • Takımların sıkma vidaları | <p>7</p> <ul style="list-style-type: none"> • Coolant outlet • Выход хладагента • Wylot cieczy chłodzącej • Výstup chladicí kapaliny • Soğutma sıvısı çıkışı <p>8</p> <ul style="list-style-type: none"> • Slide clamp screw • Зажимные винты салазок • Śruba blokująca sanie narzędziowe • Upinací šroub šoupátka • Sürgülü sıkma vidası <p>9</p> <ul style="list-style-type: none"> • Battery compartment cover • Крышка батарейного отсека • Osłona baterii • Kryt prostoru baterie • Pil bölümü kapağı <p>10</p> <ul style="list-style-type: none"> • Oiler • Масленка • Smarownica • Olejnička • Yağlayıcı | <p>11</p> <ul style="list-style-type: none"> • Digital display • Цифровой дисплей • Wyświetlacz cyfrowy • Digitální displej • Dijital gösterge <p>12</p> <ul style="list-style-type: none"> • Selection button • Кнопка выбора • Przycisk Wyboru • Tlačítko pro výběr • Seçme düğmesi |
|--|---|---|

IP67

2 μm



GB FEATURES. The TR-ELETTRA heads enable high precision machining with tolerance grade, IT6, with excellent surface finish. They have a 1 micron radius adjustment sensitivity on a built-in digital display, ensuring maximum speed and adjustment accuracy. The TR-ELETTRA heads are resistant to water infiltration and are coated with an anti-corrosive surface protection.

RU ХАРАКТЕРИСТИКИ. Головки TR-Elettra позволяют производить высокоточную обработку по классу IT6 с исключительным качеством поверхности. Они имеют точность регулировки радиуса в 1 микрон на встроенном цифровом дисплее обеспечивая скорость и точность настройки. Головки TR-ELETTRA являются влагозащищенными и имеют антикоррозионное покрытие.

PL CECHY. Głowice TR-Elettra umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Posiadają dokładność ustawczą 1 mikrometr na promieniu widoczną na wbudowanym wyświetlaczu cyfrowym, zapewniającym maksymalną szybkość i dokładność ustawienia. Głowice TR-Elettra są odporne na przedostawanie się chłodziwa i są pokryte warstwą ankorozijną.

CZ VLASTNOSTI. Pomocí hlav TR-ELETTRA se dosáhne vysoce přesného obrábění podle tolerance IT6 s vynikající finální úpravou povrchu. Přesnost nastavení poloměru na vestavěném digitálním displeji je 1 mikron, což zajišťuje maximální přesnost a rychlost nastavení. Tyto TR-ELETTRA hlavy jsou voděodolné a jsou potaženy antikorozií povrchovou vrstvou.

TR ÖZELLİKLER. TR-ELETTRA kafaları IT6 toleransında mükemmel yüzey kalitesinde yüksek hassasiyet sağlar. Dijital göstergede 1 mikron yarıçap ayarı hassasiyeti ile maximum hız ve ayar doğruluğuna sahiptir.

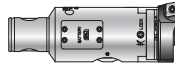
TR-ELETTRA 32 MHD'32

Ø 35.5 ~ 51.5



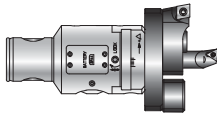
TR-ELETTRA 40 MHD'40

Ø 48 ~ 64



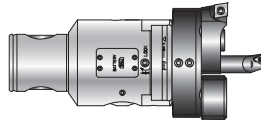
TR-ELETTRA 50 MHD'50

Ø 2.5 ~ 110



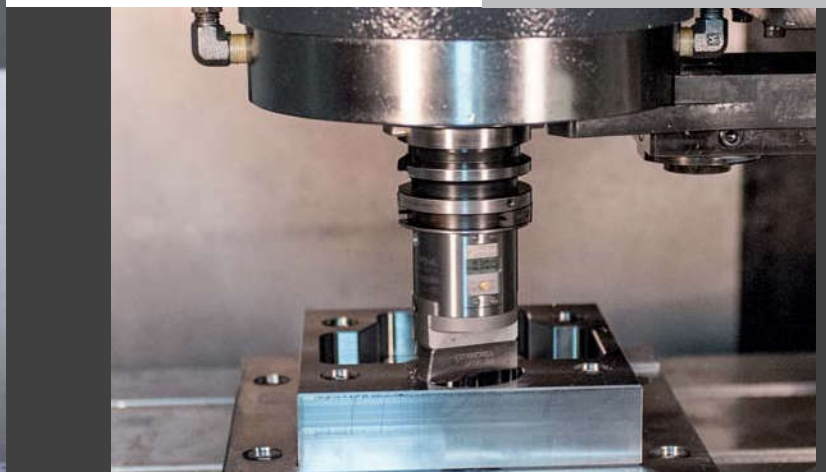
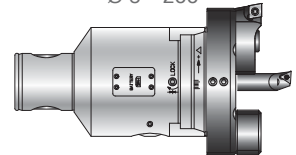
TR-ELETTRA 63 MHD'63

Ø 6 ~ 125



TR-ELETTRA 80 - MHD'80

Ø 6 ~ 200



TR-E 32 - MHD'32

TR-E 40 - MHD'40

TR-E 50 - MHD'50

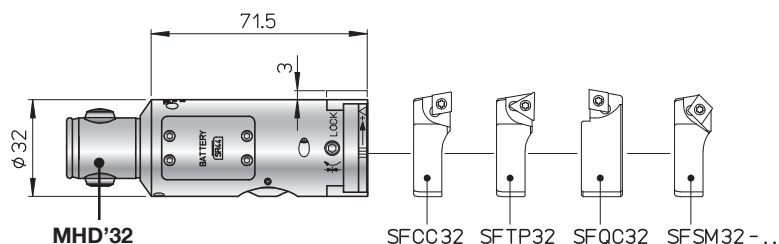
TR-E 63 - MHD'63

TR-E 80 - MHD'80



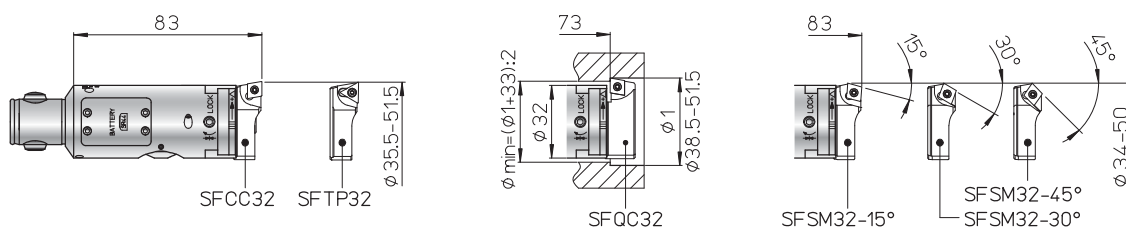


2 µm



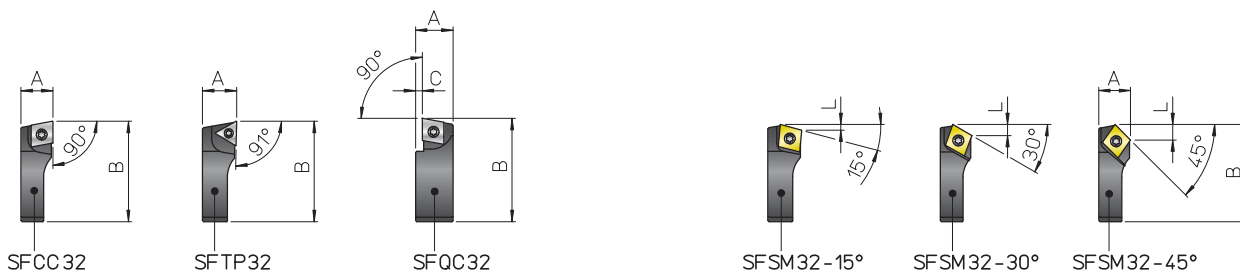
REF.	CODE	Kg.
TR-ELETTRA 32 MHD'32	455200320320	0.4

TR-E 32
Ø 35 ~ 51.5



- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF

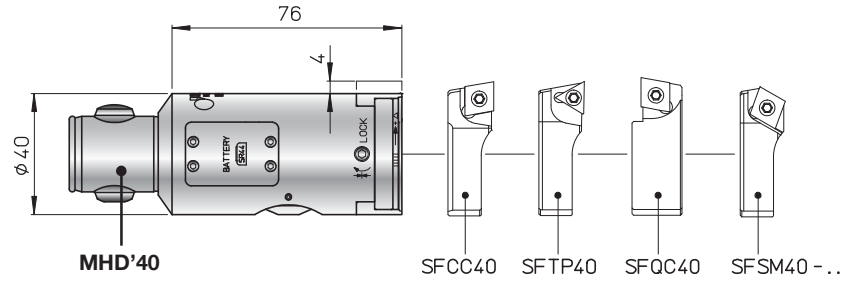


REF.	CODE	A	B	C	L					Kg.
SFCC 32	470500532002	11.5	34.5	-	-	CCGT 0602..	-	TS 25	TORX T08	0.02
SFTP 32	470500532001	11.5	34.5	-	-	-	TPGX 0902..	CS 250T	TORX T08	0.02
SFQC 32	470500532062	13.5	35.5	2.5	-	CCMT 0602..	-	TS 25	TORX T08	0.03
SFSM 32-15°	470500532011	11.5	33.5	-	1.6	CCMT 0602..	-	TS 25	TORX T08	0.02
SFSM 32-30°	470500532013				3					
SFSM 32-45°	470500532015				4.3					



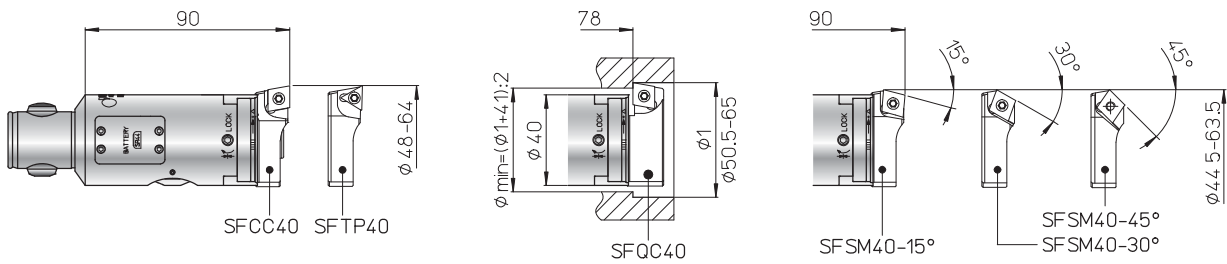


2 μm



REF.	CODE	Kg.
TR-ELETTRA 40 MHD'40	455200400400	0.7

TR-E 40
Ø 48 ~ 64



- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

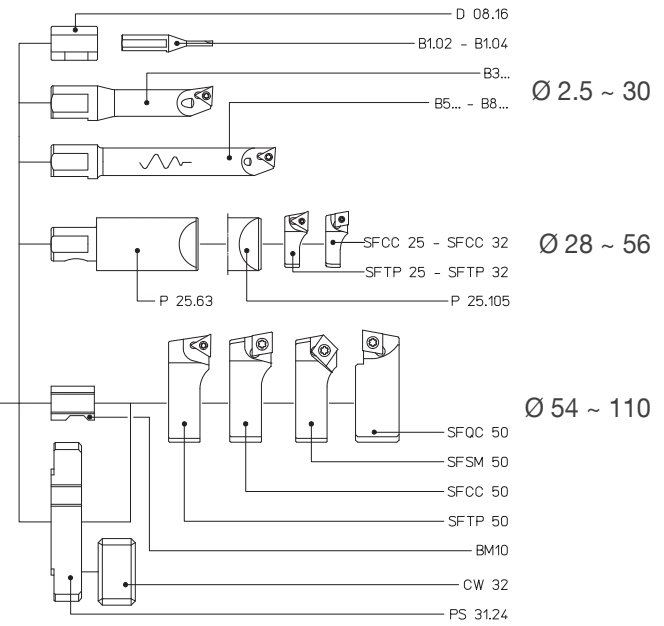
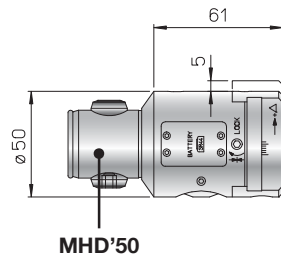
SF



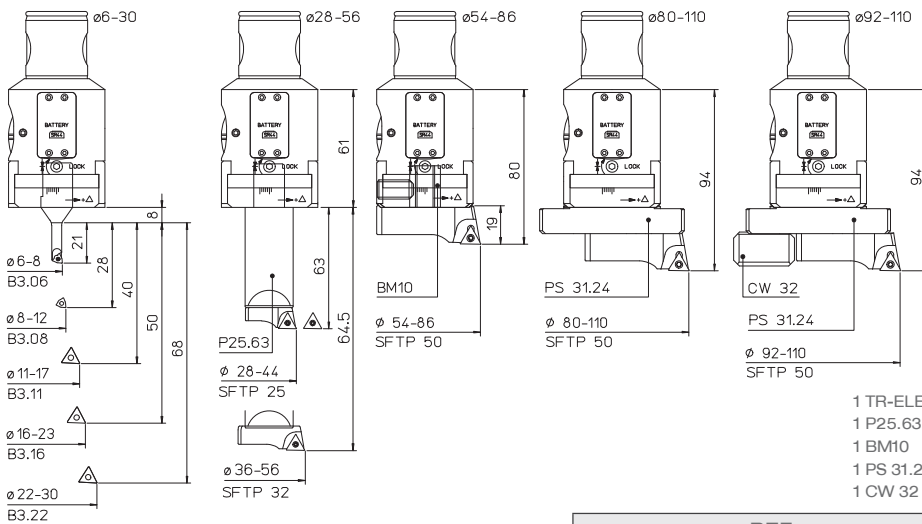
REF.	CODE	A	B	C	L					Kg.
SFCC 40	470500540002	14	44	-	-	CCGT 09T3..	-	TS 4	TORX T15	0.04
SFTP 40	470500540001	14	44	-	-	-	TPGX 1103..	CS 300890T	TORX T08	0.04
SFQC 40	470500540062	16.5	46	3	-	CCMT 09T3..	-	TS 4	TORXT15	0.06
SFSM 40-15°	470500540011	14	42.5	-	2.4	CCMT 09T3..	-	TS 4	TORXT15	0.03
SFSM 40-30°	470500540013				4.6					
SFSM 40-45°	470500540015				6.6					



2 μm



REF.	CODE	Kg.
TR-ELETTRA 50 MHD'50	455200500500	1.1

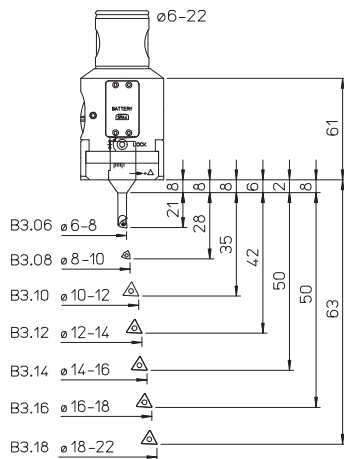


KIT K01
Ø 6 ~ 110



- 1 TR-ELETTRA 50 MHD'50
- 1 P25.63
- 1 BM10
- 1 PS 31.24
- 1 CW 32
- 1 B3.06
- 1 B3.08
- 1 B3.11
- 1 B3.16
- 1 B3.22
- 1 SFTP25
- 1 SFTP32
- 1 SFTP50
- 5 TPGX 090202L DC100
- 1 TPGX 110302L DC100
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K01 TR-ELETTRA 50 MHD'50	655200500500	6 ~ 110



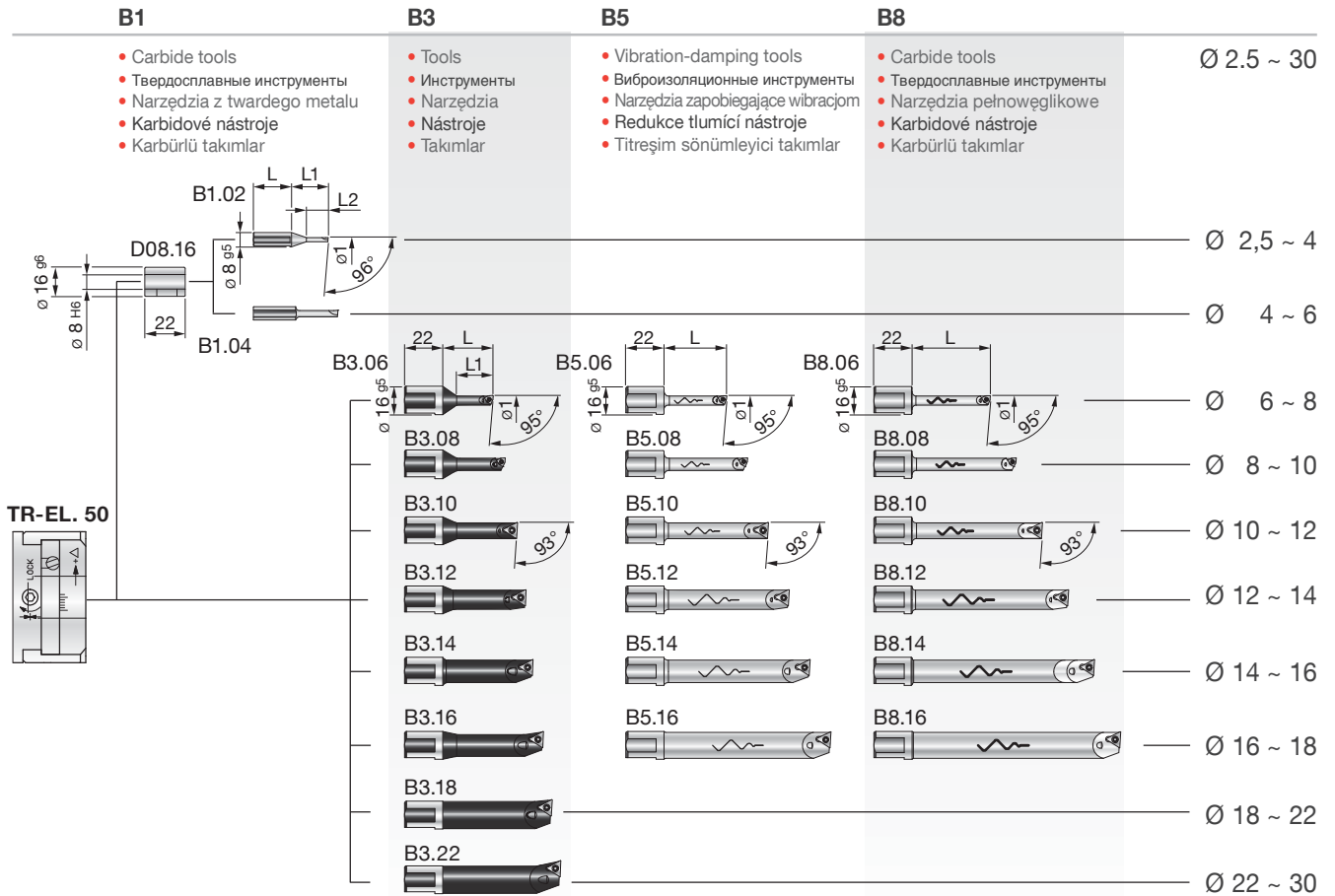
KIT K00
Ø 6 ~ 22



- 1 TR-ELETTRA 50 MHD'50
- 1 B3.06
- 1 B3.08
- 1 B3.10
- 1 B3.12
- 1 B3.14
- 1 B3.16
- 1 B3.18
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K00 TR-ELETTRA 50 MHD'50	655200500501	6 ~ 22





REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⊖	⊖	⊖	⊖	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1
B3.18	572010518001	18 ~ 22	63	-	-	-	-	-	-
B3.22	572010522001	22 ~ 30	68	-	-	-	-	-	-

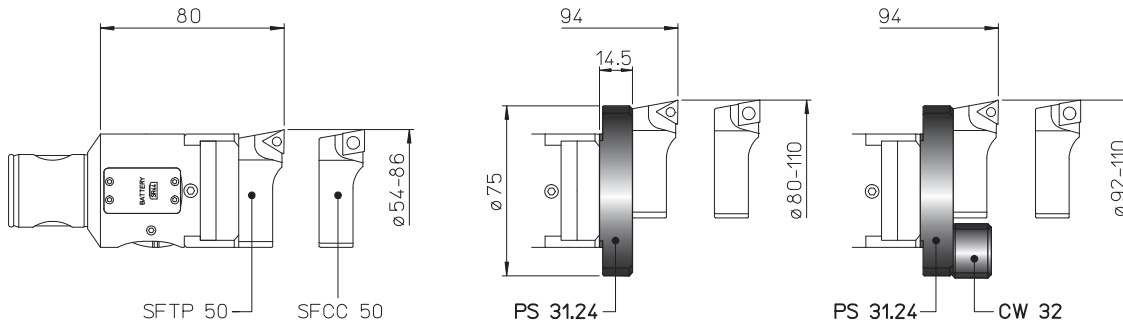
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				TS 211		0.09
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96					-	

B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				TS 211		0.08
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120					-	

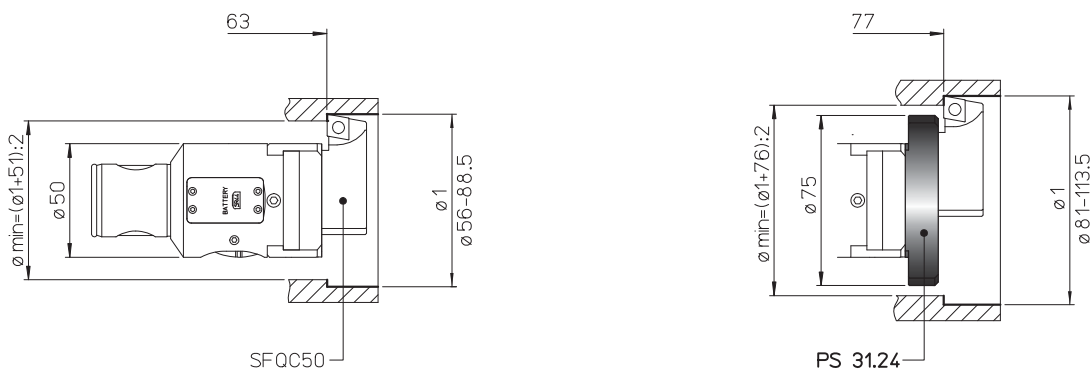
MHD'50

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

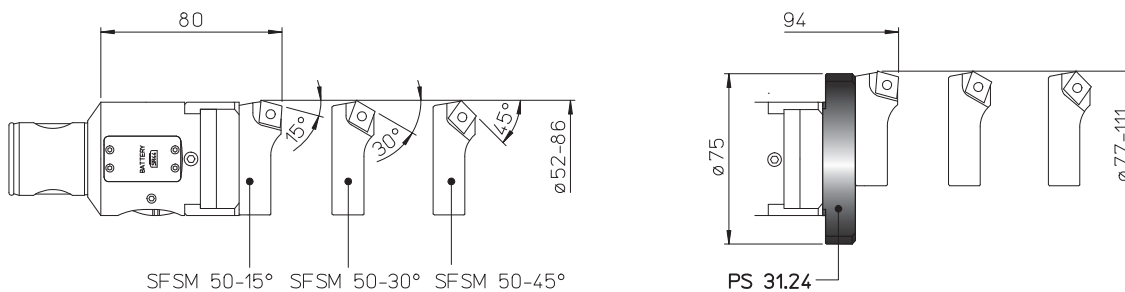
PS 31
CW 32
Ø 54 ~ 110



PS 31
Ø 56 ~ 113.5



PS 31
Ø 52 ~ 111

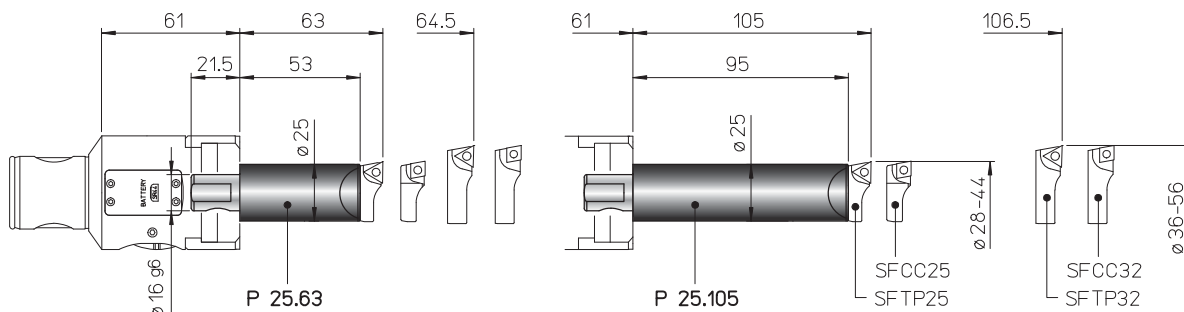


REF.	CODE	Kg.
PS 31.24 TR..50	433024140751	0.19
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁÓWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

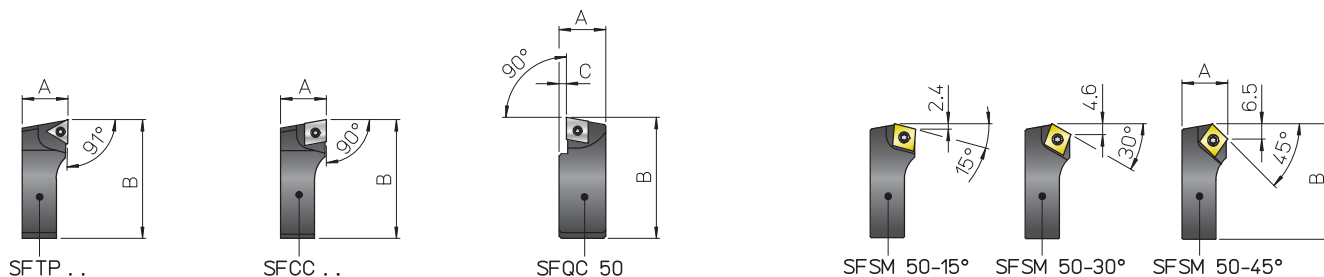
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁÓWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

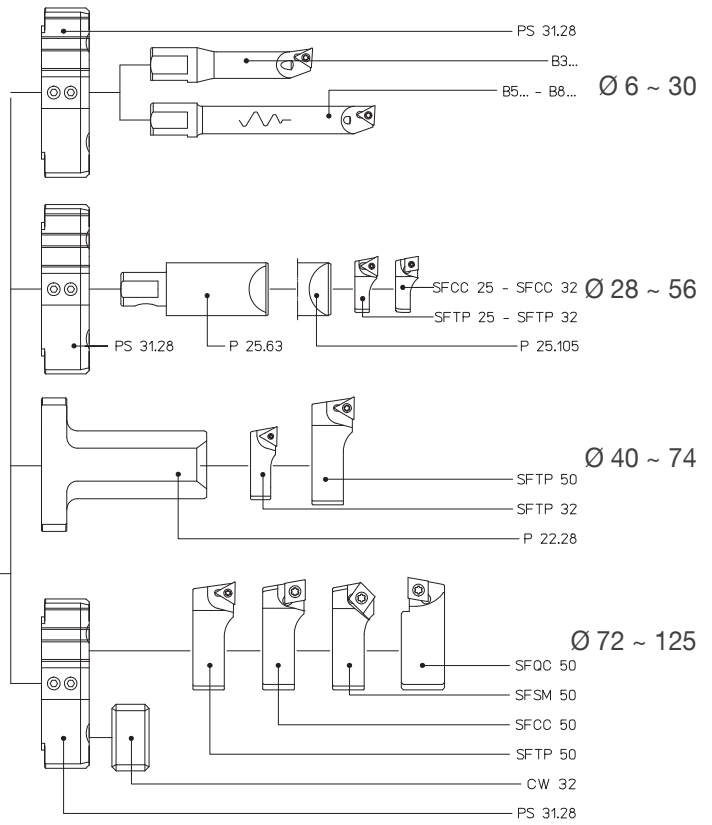
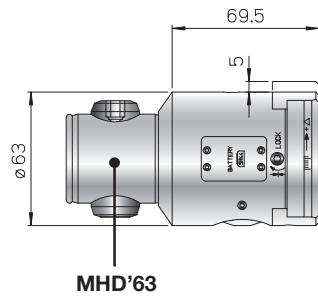
SF



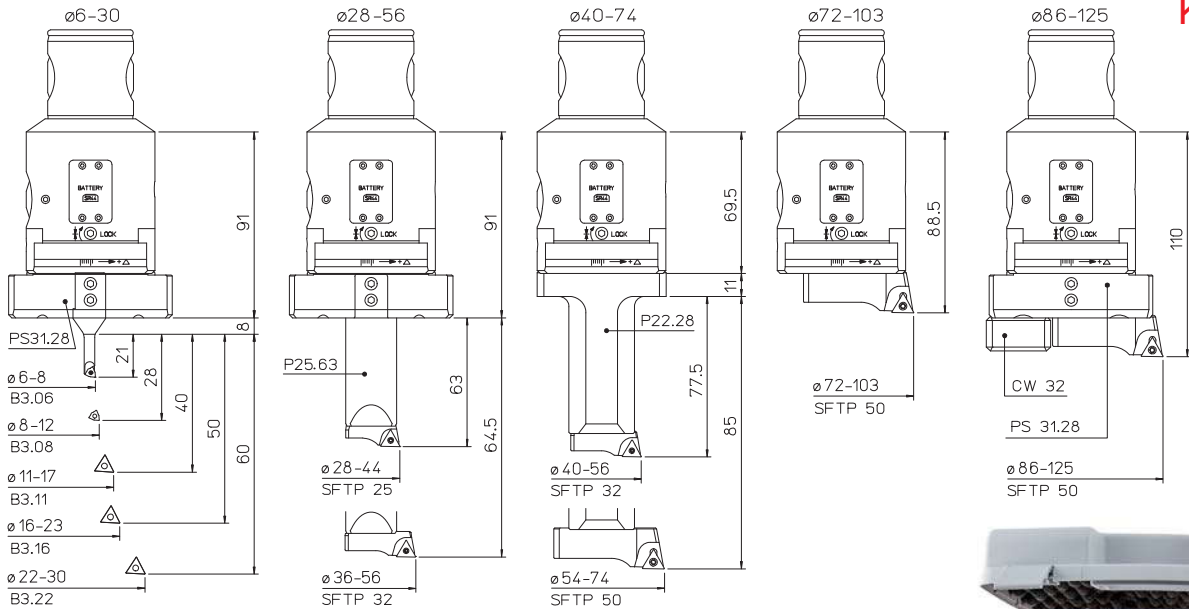
REF.	CODE	A	B	C	△	□	⌘	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	0.02		
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								



2 µm



REF.	CODE	Kg.
TR-ELETTRA 63 MHD'63	455200630630	2.2



KIT K01
Ø 6 ~ 125

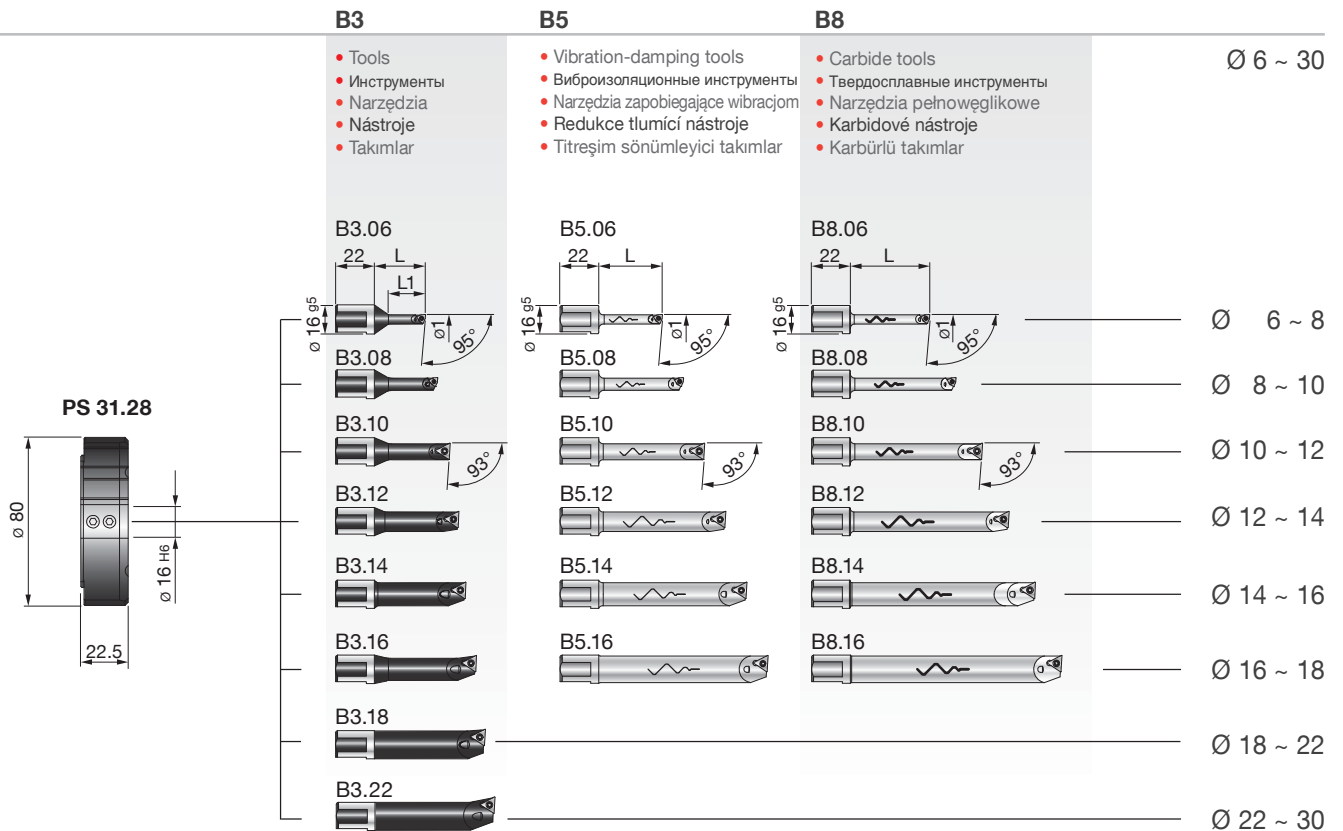


- 1 TR-ELETTRA 63 MHD'63
- 1 P25.63 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 P22.28 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 PS 31.28 1 B3.11 1 SFTP32 2 WCGT 020102L DC100
- 1 CW 32 1 B3.16 1 SFTP50

REF.	CODE	Ø
KIT K01 TR-ELETTRA 63 MHD'63	655200500630	6 ~ 125

119 120 116 241





REF.	CODE	Kg.
PS 31.28 TR-ELETTRA 63	433028220802	0.3

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.			
B3.06	57 201 05 06 001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035			
B3.08	57 201 05 08 001	8 ~ 10	36	28			TS 211		0.04			
B3.10	57 201 05 10 001	10 ~ 12	43	35					0.05			
B3.11	57 201 05 11 001	11 ~ 13	48	40	-	TPGX 0902..	CS 250 T	TORX T08	0.055			
B3.12	57 201 05 12 001	12 ~ 14		42					0.06			
B3.14	57 201 05 14 001	14 ~ 16	52	50					0.07			
B3.16	57 201 05 16 001	16 ~ 18	58						0.07			
B3.18	57 201 05 18 001	18 ~ 22	63						-	0.1		
B3.22	57 201 05 22 001	22 ~ 30	68	-								

B5.06	57 201 05 06 105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	57 201 05 08 105	8 ~ 10	48				TS 211		0.09
B5.10	57 201 05 10 105	10 ~ 12	60						0.1
B5.12	57 201 05 12 105	12 ~ 14	72	-	TPGX 0902..	CS 250 T	TORX T08	0.2	
B5.14	57 201 05 14 105	14 ~ 16	84					0.2	
B5.16	57 201 05 16 105	16 ~ 18	96					0.3	

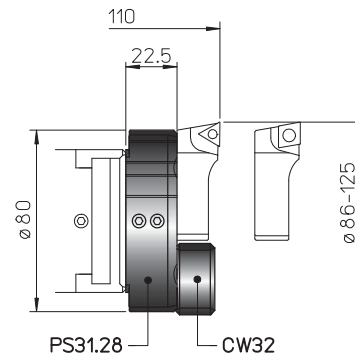
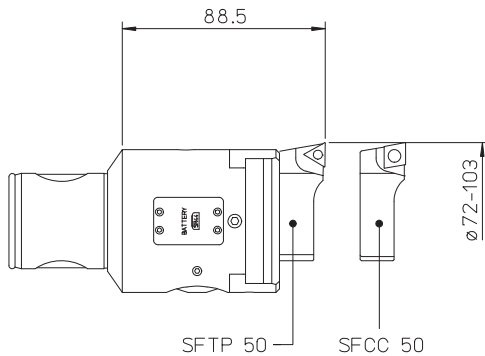
B8.06	57 201 05 06 108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	57 201 05 08 108	8 ~ 10	60				TS 211		0.08
B8.10	57 201 05 10 108	10 ~ 12	75						0.1
B8.12	57 201 05 12 108	12 ~ 14	90	-	TPGX 0902..	CS 250 T	TORX T08	0.2	
B8.14	57 201 05 14 108	14 ~ 16	105					0.2	
B8.16	57 201 05 16 108	16 ~ 18	120					0.3	



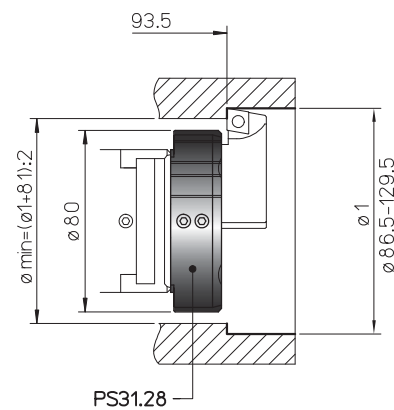
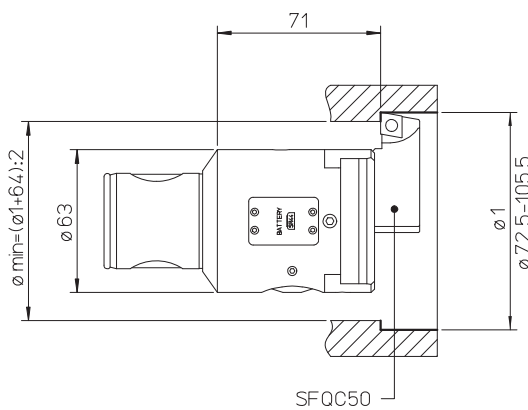
MHD'63

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

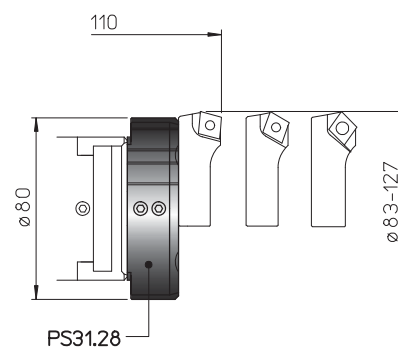
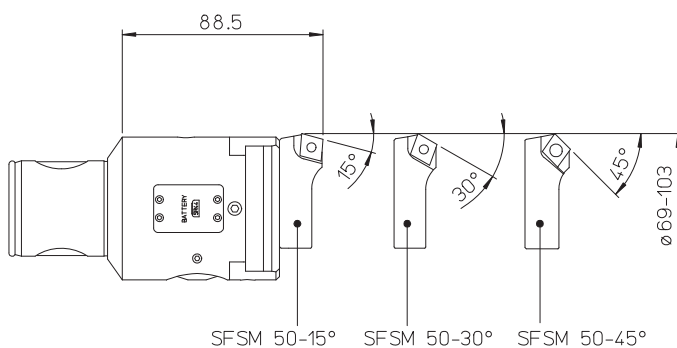
PS 31
CW 32
Ø 72~125



PS 31
Ø 72.5 ~ 129.5



PS 31
Ø 69 ~ 127



REF.	CODE	Kg.
PS 31.28 TR-ELETTRA 63	433028220802	0.3
CW 32	392011003201	0.07

119

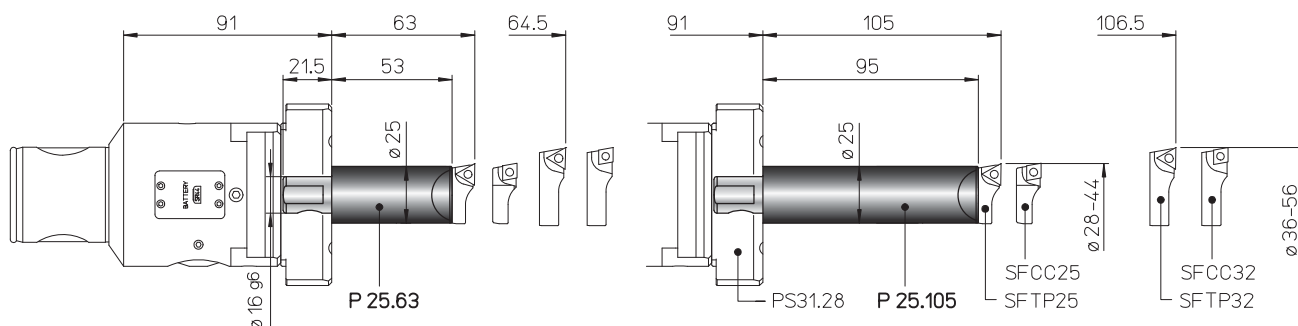


125



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

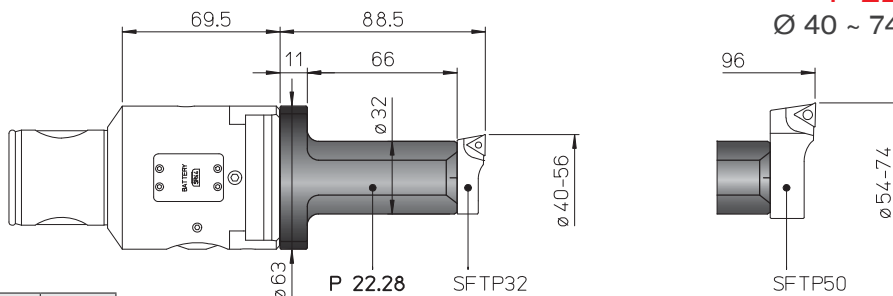
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

P 22

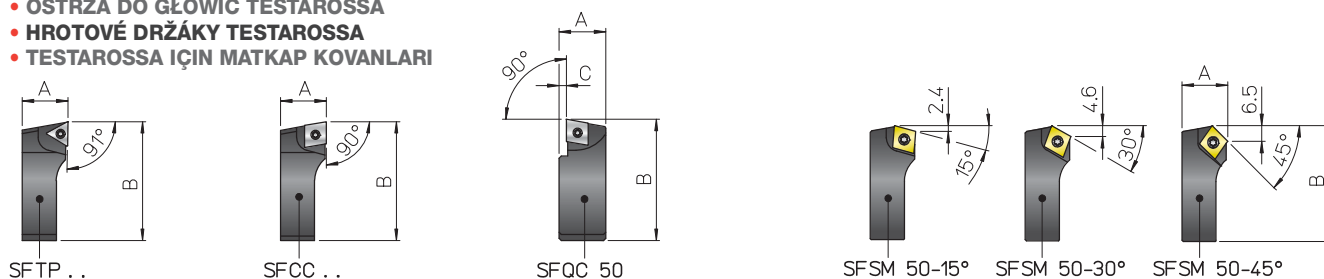
Ø 40 ~ 74



REF.	CODE	Kg.
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	△	□	⊥	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	CS 300890T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	CCGT 09T3..	TS 4	TORX T15	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

116

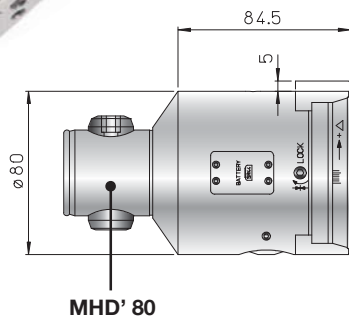
125

119

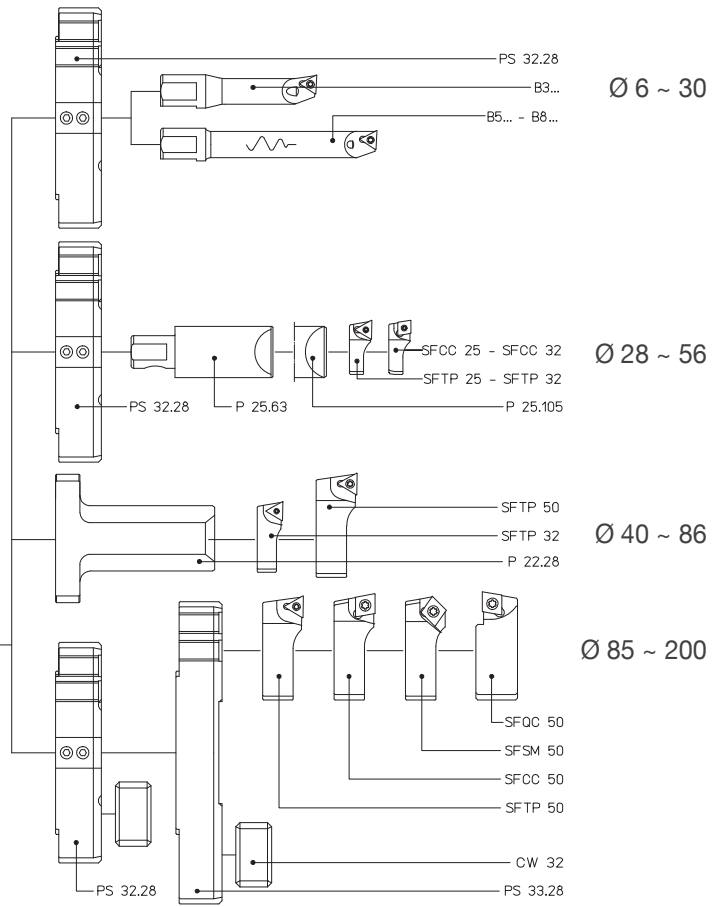




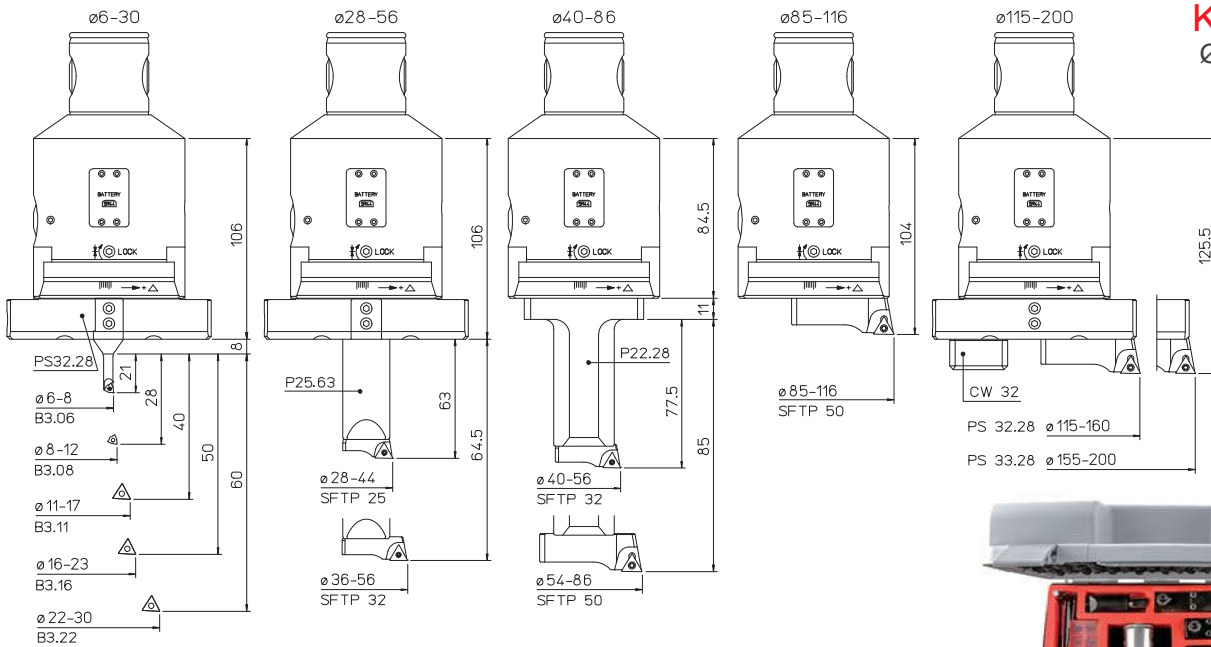
2 µm



MHD'80



REF.	CODE	Kg.
TR-ELETTRA 80 MHD'80	455200800800	3.9



KIT K01
Ø 6 ~ 200

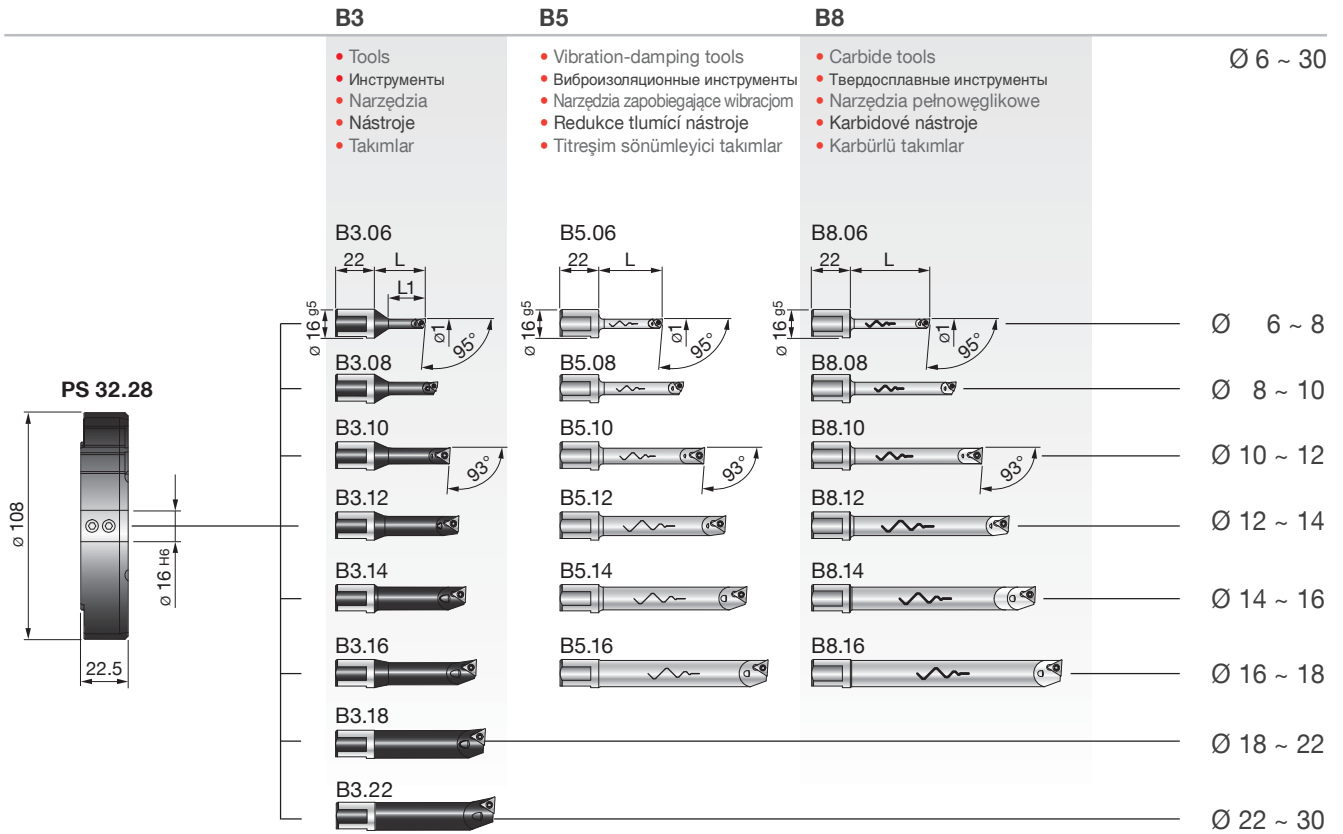
- 1 TR-ELETTRA 80 MHD'80
- 1 P25.63 1 CW 32 1 B3.16 1 SFTP50
- 1 P22.28 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 PS 32.28 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 PS 33.28 1 B3.11 1 SFTP32 2 WCGT 020102L DC100



REF.	CODE	Ø
K01 TR-ELETTRA 80 MHD'80	655200500800	6 ~ 200

119 120 116 241





REF.	CODE	Kg.
PS 32.28 TR-ELETTRA 80	433028221082	0.5

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	50	-	TPGX 0902..	CS 250 T	TORX T08	0.07
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-					0.1
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				28		TS 211
B5.10	572010510105	10 ~ 12	60	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				28		TS 211
B8.10	572010510108	10 ~ 12	75	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3



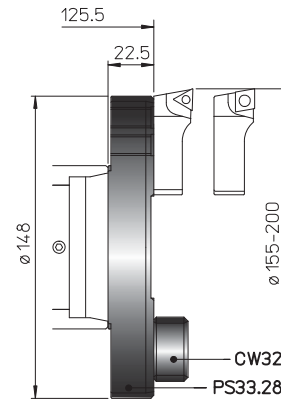
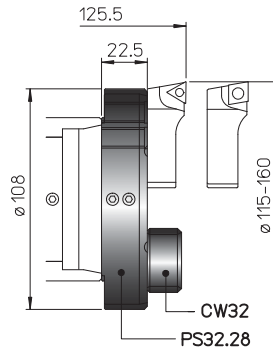
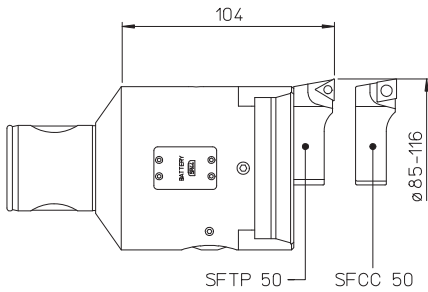
MHD'80

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS

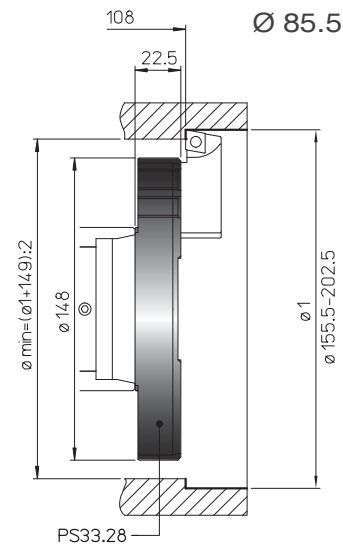
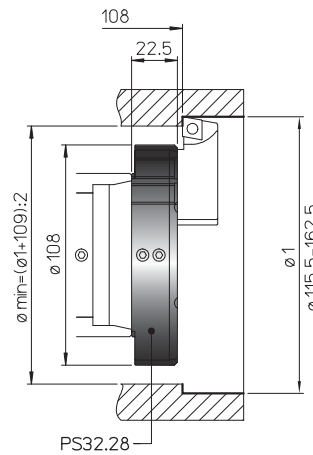
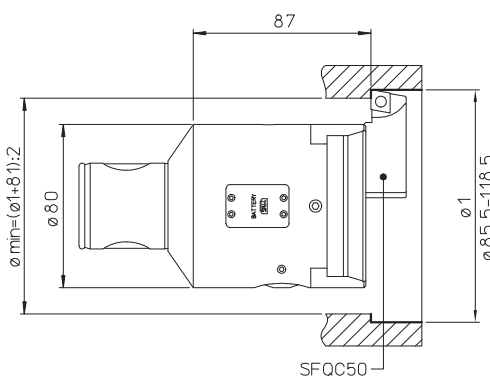
CW 32

Ø 85~ 200



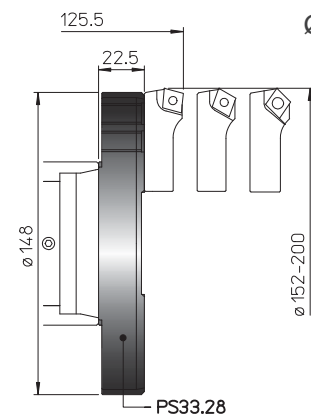
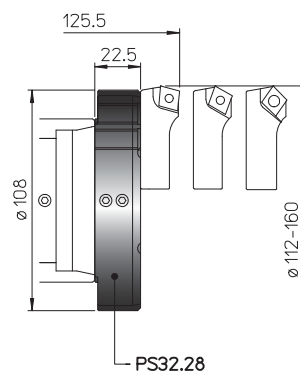
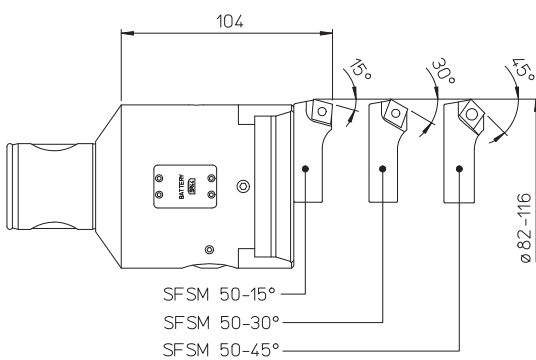
PS

Ø 85.5 ~ 202.5



PS

Ø 82 ~ 200



REF.	CODE	Kg.
PS 32.28 TR-ELETTRA 80	433028221082	0.5
PS 33.28 TR-ELETTRA 80	433028221482	0.6
CW 32	392011003201	0.07

119

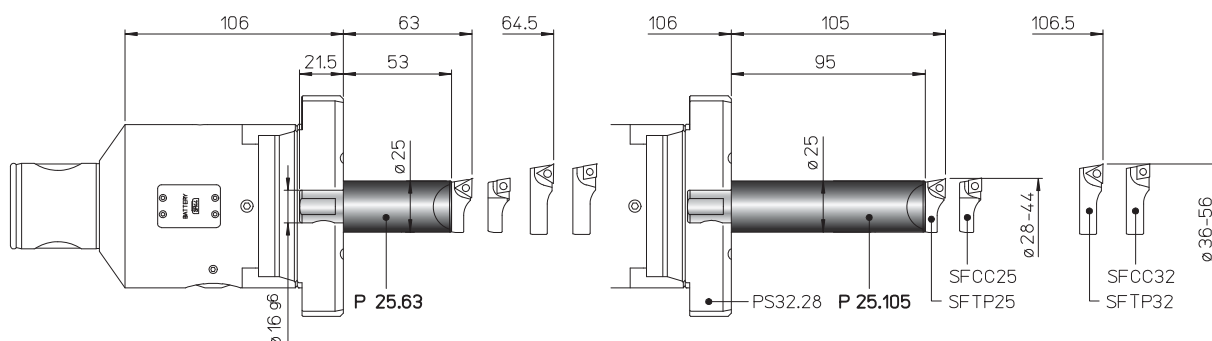


125



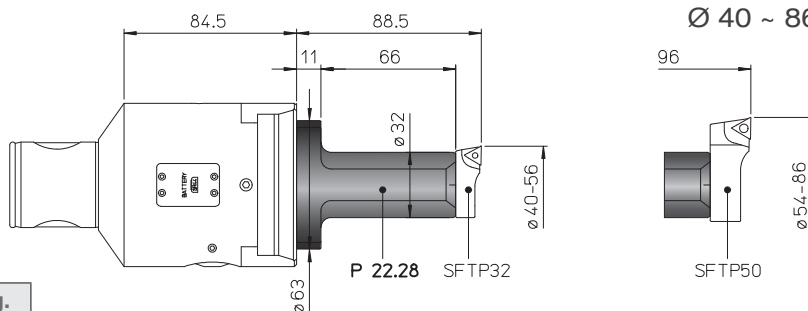
- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

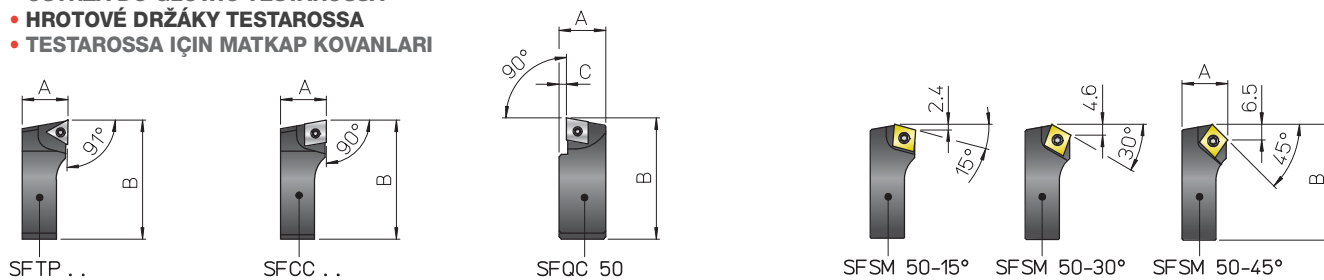
P 22
Ø 40 ~ 86



REF.	CODE	Kg.
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	△	□	⊥	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	CS 300890T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	-	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SF5M 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SF5M 50-30°	470500550013								
SF5M 50-45°	470500550015								

- 1 • Body
• Корпус
• Korpus
• Tělo
• Gövde

- 2 • Slide toolholder
• Салазки
• Sanie narzędziowe
• Nástrojový držák šoupátka
• Kayar takim tutucu

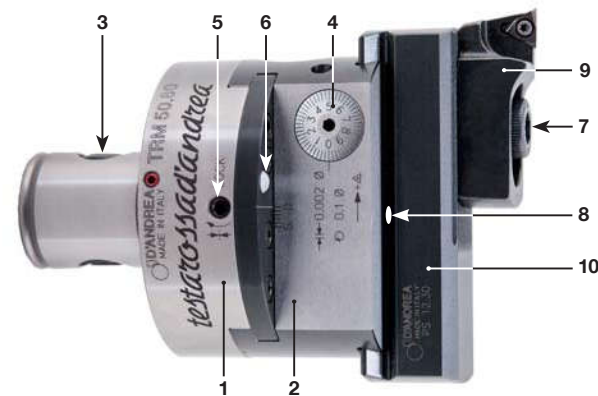
- 3 • Expanding radial pin
• Разжимной радиальный штифт
• Promieniowy sworzeń rozporowy
• Rozširujúci radiálny kolík
• Radyal genişletme pimi

- 4 • Micrometric vernier scale
• Микрометрический нониус
• Noniusz mikrometryczny
• Mikrometrické měřítko vernier
• Mikrometrik verniye skalası

- 5 • Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca sanie narzędziowe
• Upínací šroub šoupátka
• Sürgülü sıkma vidası

- 6 • Coolant outlet
• Выход хладагента
• Wylot cieczy chłodzącej
• Výstup chladicí kapaliny
• Soğutma sıvısı çıkışı

- 7 • Tools clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Upínací šrouby nástroje
• Takımların sıkma vidaları



2 μm



- 8 • Oiler
• Масленка
• Smarownica
• Olejnička
• Yağlayıcı

- 9 • Bit holder
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani

- 10 • Tool holder
• Держатель
• Oprawka narzędziowa
• Nástrojový držák
• Takım tutucu

GB FEATURES. The TRM heads in the D'Andrea Testarossa line have protective rustproof coating. High precision work to IT6 tolerance, with excellent surface finish, is achieved using TRM boring heads. These are very sensitive and radial correction of 1 micron can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Головки TRM линии Testarossa D'Andrea оснащены защитным антикоррозийным покрытием. Головки TRM обеспечивают высокую точность с допусками по классу IT6 с исключительной чистотой поверхности. Они очень чувствительны и радиальная коррекция в 1 микрон может быть осуществлена прямо на станке и легко считана по шкале нониуса.

PL CECHY. Głowice serii TRM, pochodzące z nowej linii Testarossa firmy D'Andrea, posiadają dodatkową ochronną powłokę antykorozyjną. Głowice TRM umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Dokładność ustawcza głowic wynosi 1 mikrometr na promieniu. Wartość ta jest łatwa do odczytania bezpośrednio na noniuszu głowicy co umożliwia dokonywanie regulacji bezpośrednio na obrabiarce.

CZ VLASTNOSTI. Hlavy TRM v řadě Testarossa společnosti D'Andrea mají rezuzvdornou povrchovou úpravu. Pomocí vyvrtávacích hlav TRM se docílí vysoce přesné obrábění dle tolerance IT6 s vynikající finální úpravou povrchu. Jsou velmi citlivé a radiální korekci 1 mikronu lze provést přímo na stroji a snadno odečíst na měřítku vernier.

TR ÖZELLİKLER. D'Andrea Testarossa ürün gamındaki TRM kafaları, koruyucu paslanmaz kaplamaya sahiptir. TRM matkap başları kullanılarak IT6 toleransa kadar yüksek hassasiyetli çalışma ve mükemmel yüzey bitirme gerçekleştirilir. Bunlar son derece hassastırlar ve 1 mikron radyal düzeltme doğrudan makine üzerinde gerçekleştirilip verniye skalasında kolayca okunabilir.sul raggio, facilmente leggibile sul nonio ed eseguibile anche in macchina.

TRM 16

Ø 18 ~ 23



TRM 20

Ø 22 ~ 29



TRM 25

Ø 28 ~ 38



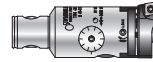
TRM 32

Ø 35.5 ~ 51.5



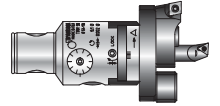
TRM 40

Ø 48 ~ 63



TRM 50

Ø 2.5 ~ 108



TRM 50/63

Ø 6 ~ 125



TRM 63/63

Ø 6 ~ 125



TRM 50/80

Ø 6 ~ 160



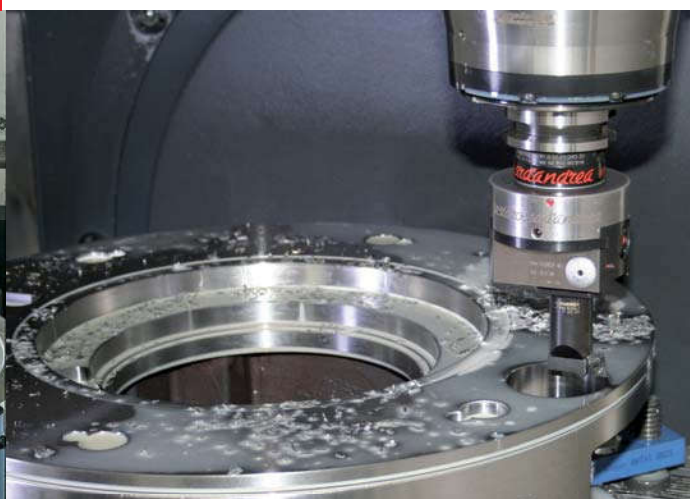
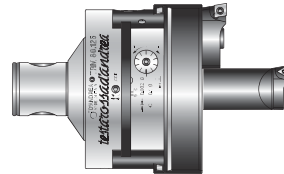
TRM 80/80

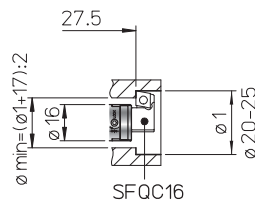
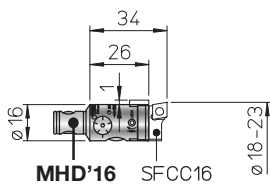
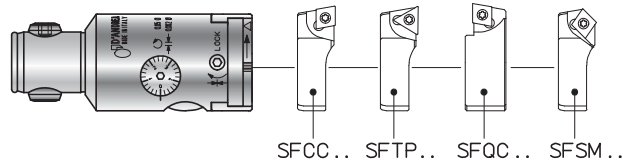
Ø 6 ~ 160



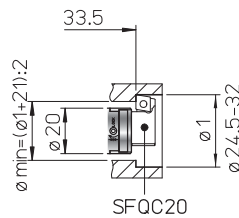
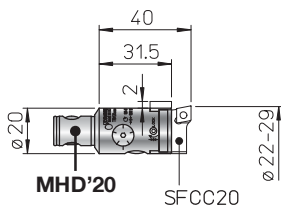
TRM 80/125

Ø 36 ~ 500

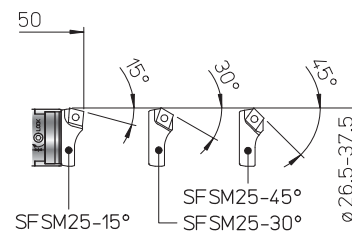
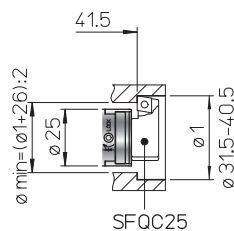
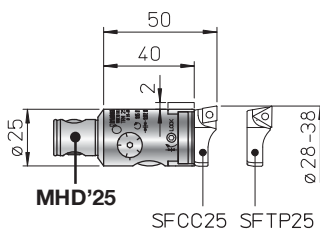




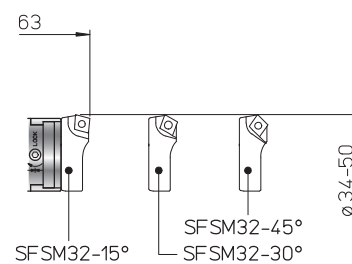
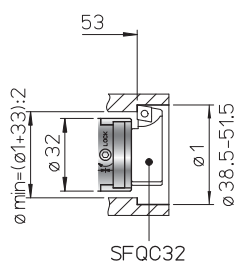
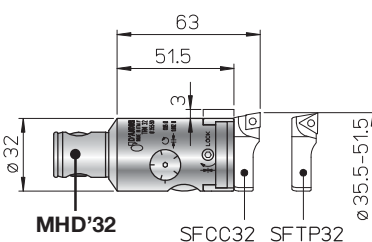
TRM 16
Ø18 ~ 23



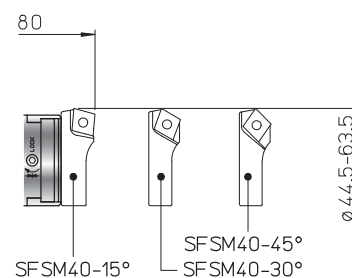
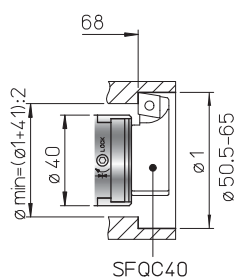
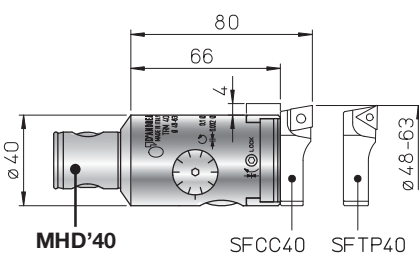
TRM 20
Ø22 ~ 29



TRM 25
Ø28 ~ 38



TRM 32
Ø35.5 ~ 51.5



TRM 40
Ø48 ~ 63



TRM

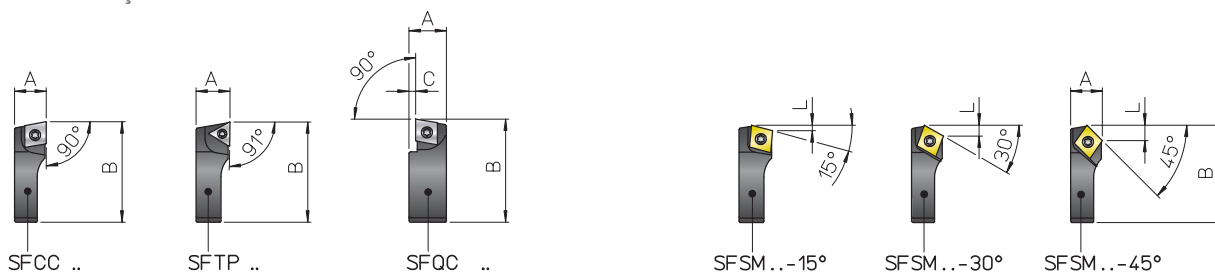


2 µm

REF.	CODE	Kg.
TRM 16	455001600341	0.05
TRM 20	455002000401	0.1
TRM 25	455002500500	0.2
TRM 32	455003200630	0.35
TRM 40	455004000800	0.7

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁÓWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	L	□	△	⌋	⌋	Kg.
SFCC 16	470500516002	8	17							0.003
SFCC 20	470500520002	8.5	21							0.005
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	-	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5							0.02
SFCC 40	470500540002	14	44	-	-	CCGT 09T3..	-	TS 4	TORX T15	0.04
SFTP 25	470500525001	10	26.5	-	-	-	TPGX 0902..	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5							0.02
SFTP 40	470500540001	14	44	-	-	-	TPGX 1103..	CS 300890T		0.04
SFQC 16	470500516062	10	18	2						0.005
SFQC 20	470500520062	10.5	22.5							0.008
SFQC 25	470500525062	12	28.5	2.5		CCMT 0602..	-	TS 25	TORX T08	0.01
SFQC 32	470500532062	13.5	35.5							0.03
SFQC 40	470500540062	16.5	46	3		CCMT 09T3..	-	TS 4	TORXT15	0.06
SFSM 25-15°	470500525011				1.6					
SFSM 25-30°	470500525013	10	25.5	-	3					0.01
SFSM 25-45°	470500525015				4.3					
SFSM 32-15°	470500532011				1.6					
SFSM 32-30°	470500532013	11.5	33.5	-	3	CCMT 0602..	-	TS 25	TORX T08	0.02
SFSM 32-45°	470500532015				4.3					
SFSM 40-15°	470500540011				2.4					
SFSM 40-30°	470500540013	14	42.5	-	4.6	CCMT 09T3..	-	TS 4	TORXT15	0.03
SFSM 40-45°	470500540015				6.6					

116

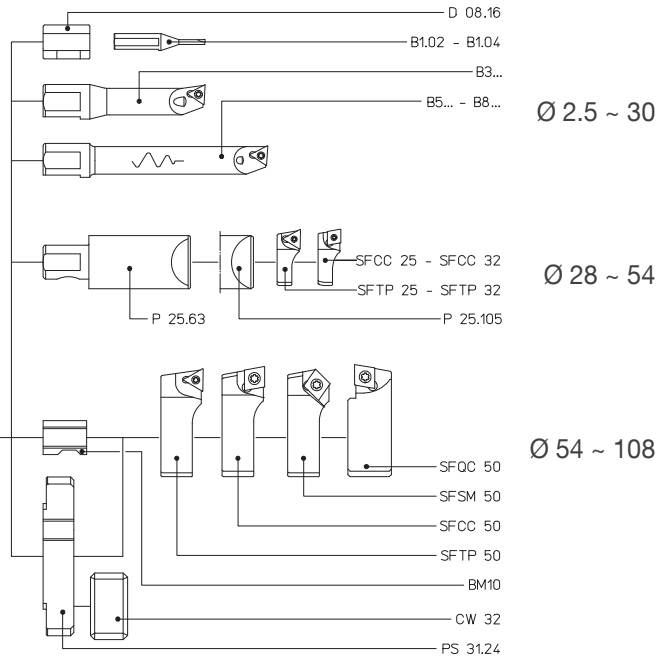
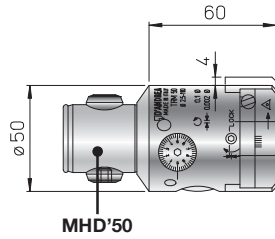
120

119

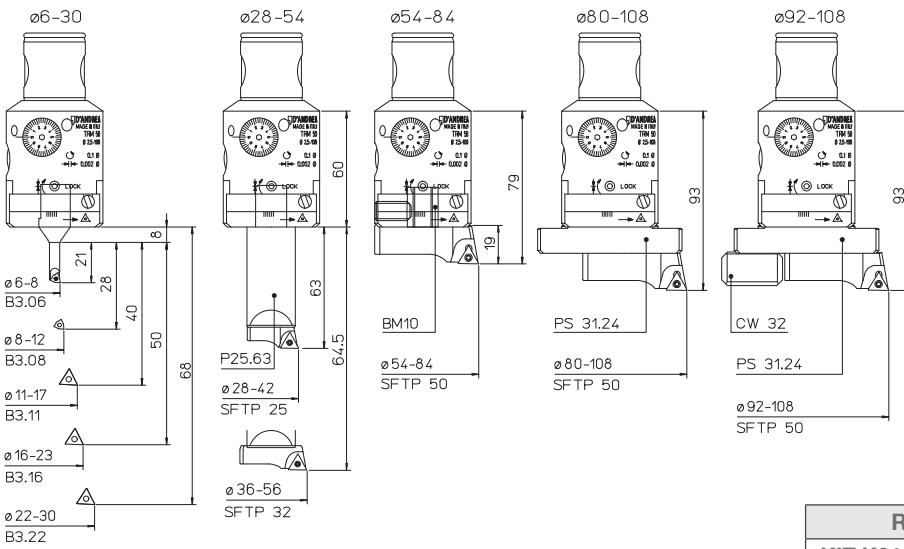




2 μm



REF.	CODE	Kg.
TRM 50	455005000500	1

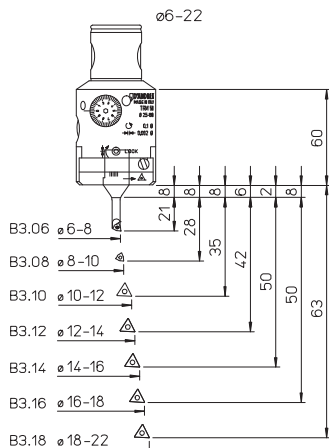


KIT K01
Ø 6 ~ 108



- 1 TRM 50
- 1 CW 32
- 1 B3.16
- 1 SFTP50
- 1 P25.63
- 1 B3.06
- 1 B3.22
- 5 TPGX 090202L DC100
- 1 BM10
- 1 B3.08
- 1 SFTP25
- 1 TPGX 110302L DC100
- 1 PS 31.24
- 1 B3.11
- 1 SFTP32
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K01 TRM 50	655005010501	6 ~ 108



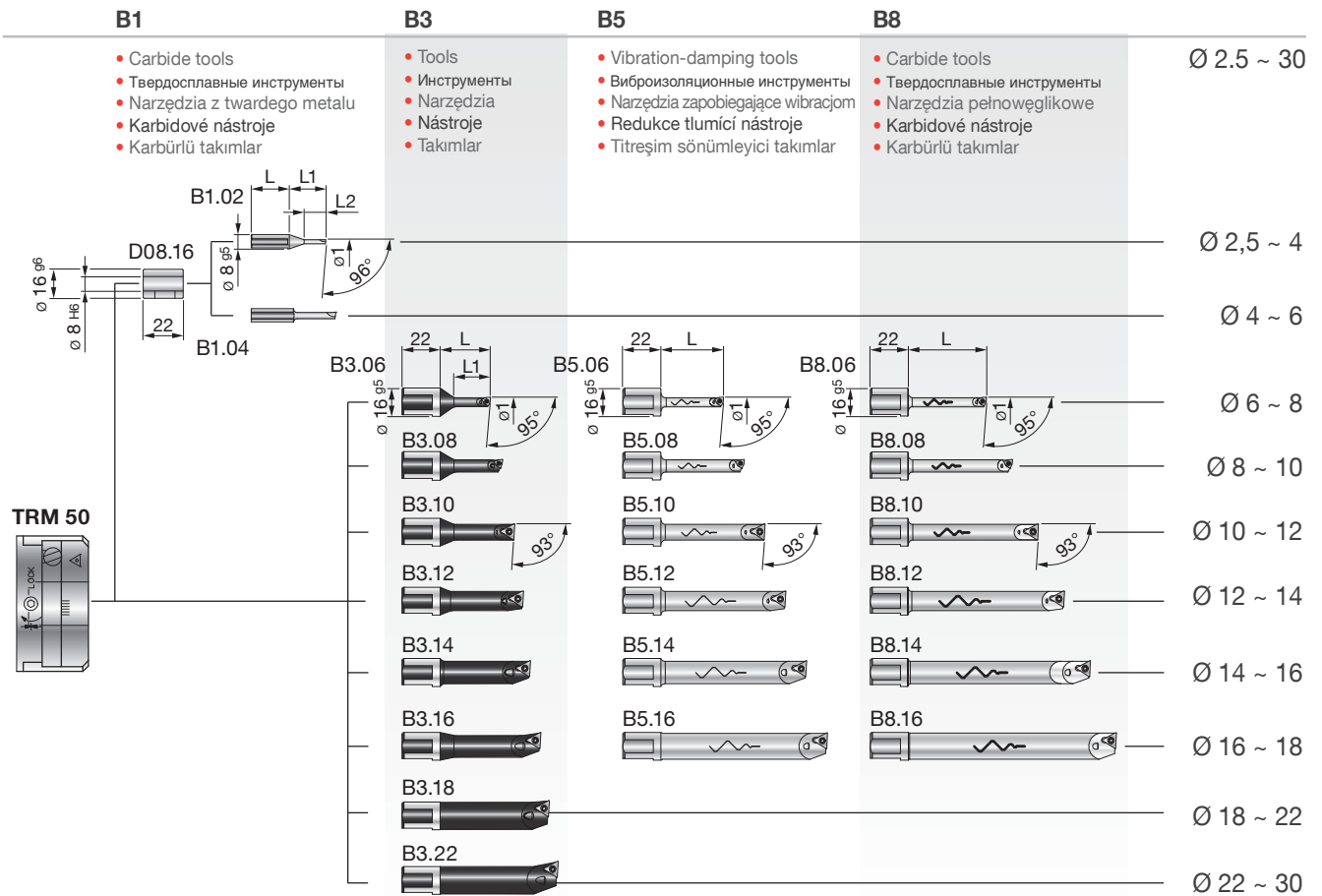
KIT K00
Ø 6 ~ 22



- 1 TRM50
- 1 B3.10
- 1 B3.16
- 5 TPGX 090202L DC100
- 1 B3.06
- 1 B3.12
- 1 B3.18
- 2 WCGT 020102L DC100
- 1 B3.08
- 1 B3.14

REF.	CODE	Ø
KIT K00 TRM 50	655005010500	6 ~ 22





REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

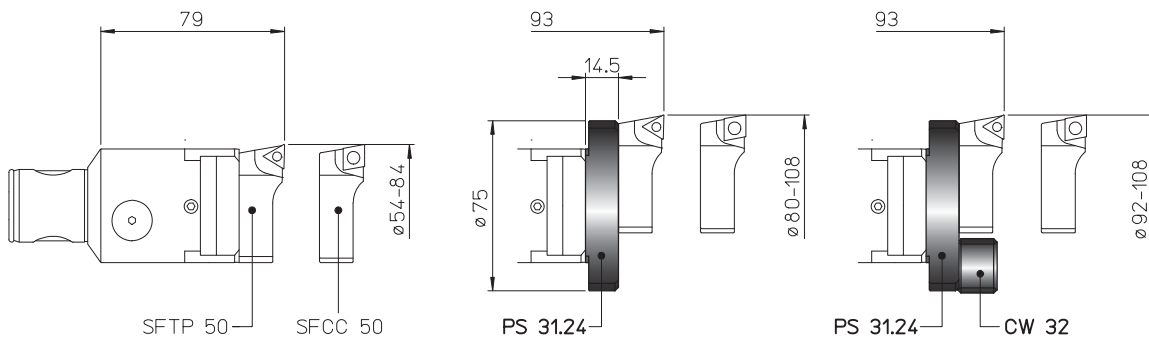
REF.	CODE	Ø1	L	L1	⊖	⊖	⊖	⊖	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28					TS 211
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1
B3.18	572010518001	18 ~ 22	63	-	-	-	-	-	0.1
B3.22	572010522001	22 ~ 30	68	-	-	-	-	-	0.1

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48	-					TS 211
B5.10	572010510105	10 ~ 12	60	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72	-					0.2
B5.14	572010514105	14 ~ 16	84	-					0.3
B5.16	572010516105	16 ~ 18	96	-	-	-	-	-	0.3

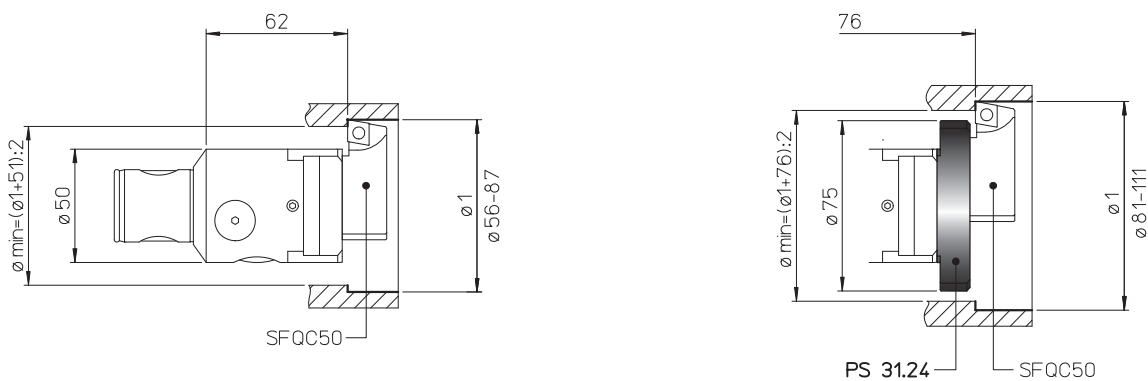
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60	-					TS 211
B8.10	572010510108	10 ~ 12	75	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90	-					0.2
B8.14	572010514108	14 ~ 16	105	-					0.2
B8.16	572010516108	16 ~ 18	120	-					0.3

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

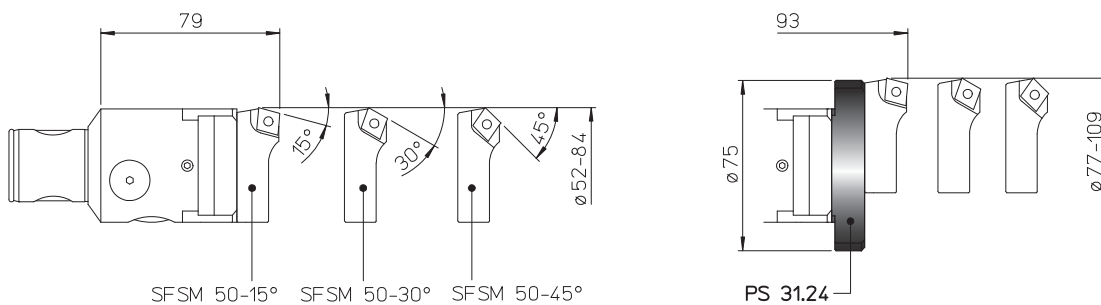
PS 31
CW 32
Ø 54 ~ 108



PS 31
Ø 56 ~ 111



PS 31
Ø 52 ~ 109

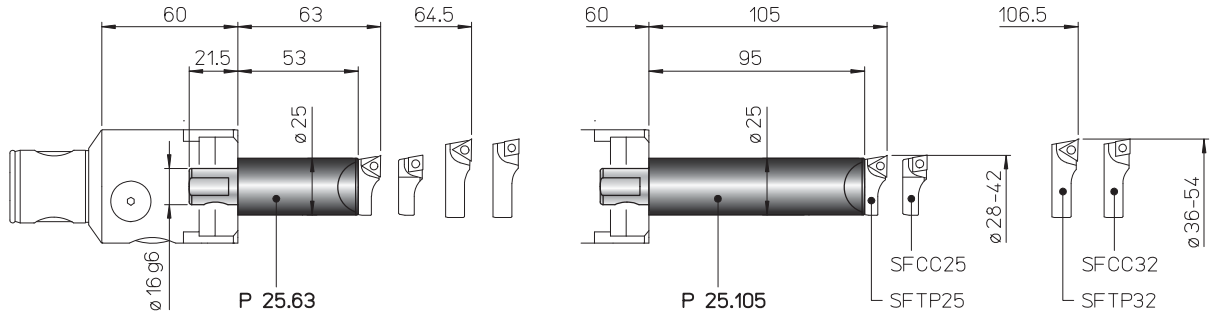


REF.	CODE	Kg.
PS 31.24 TR..50	433024140751	0.19
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

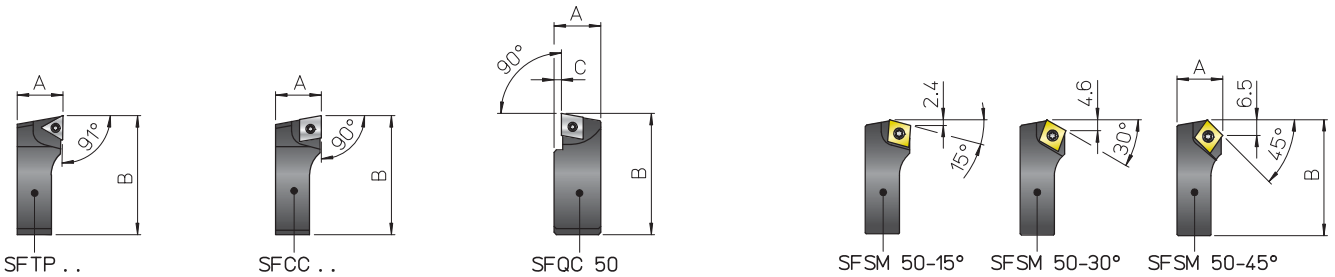
P 25
Ø 28 ~ 54



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF

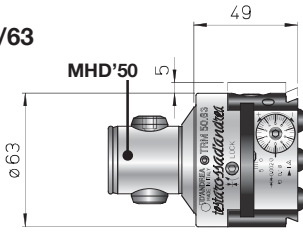


REF.	CODE	A	B	C					Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	TPGX 1103..	-	CS 300890T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	CCGT 09T3..	TS 4	TORX T15	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

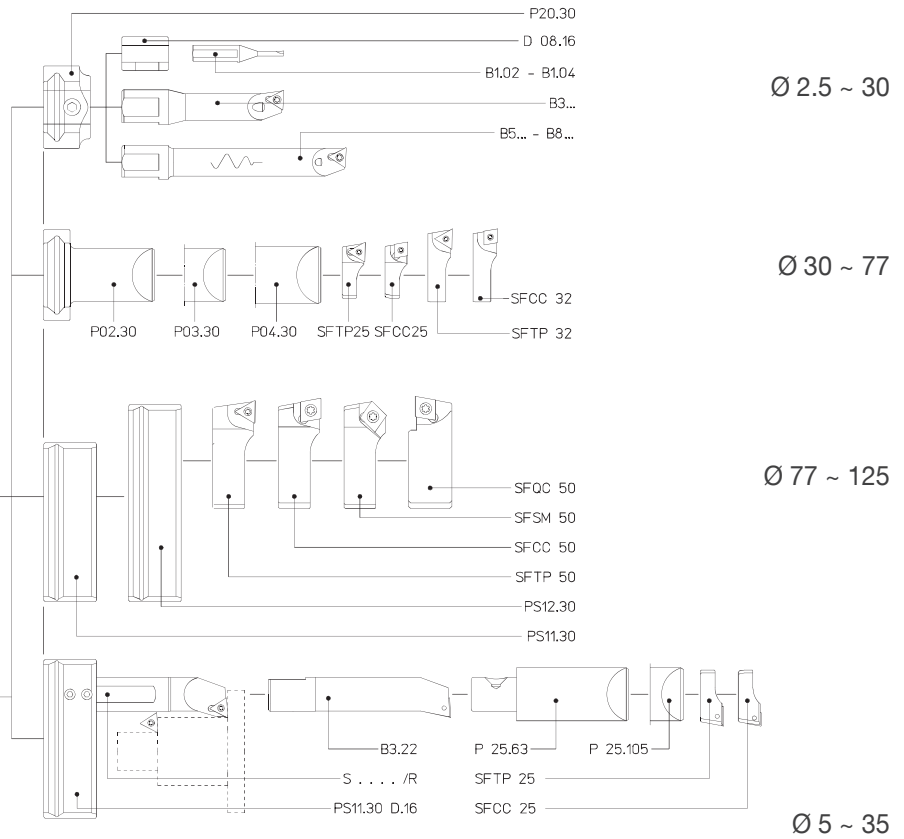
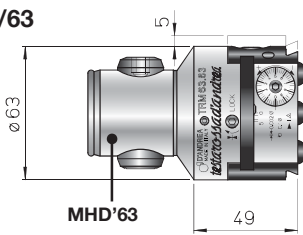


2 µm

TRM 50/63

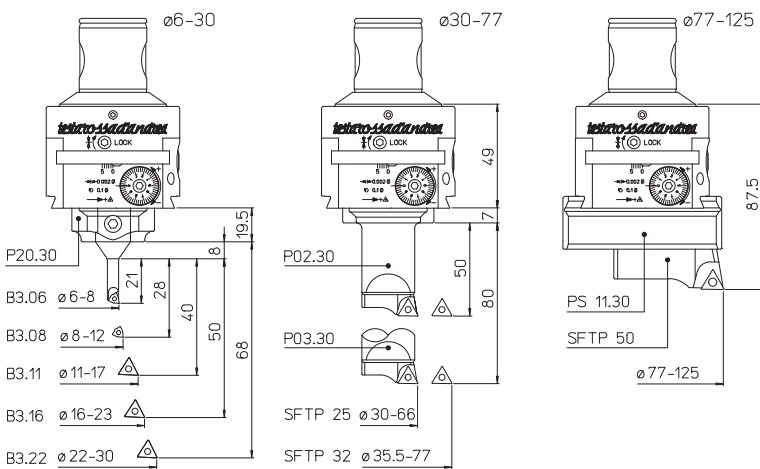


TRM 63/63



REF.	CODE	Kg.
TRM 50/63	455005000631	1.1
TRM 63/63	455006300631	1.5

KIT K01
 Ø 6 ~ 125



- 1 TRM../63
- 1 P20.30 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 PS11.30 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 P02.30 1 B3.11 1 SFTP32 2 WCGT 020102L DC100
- 1 P03.30 1 B3.16 1 SFTP50

REF.	CODE	Ø
KIT K01 TRM 50/63	655005010632	6 ~ 125
KIT K01 TRM 63/63	655006310632	

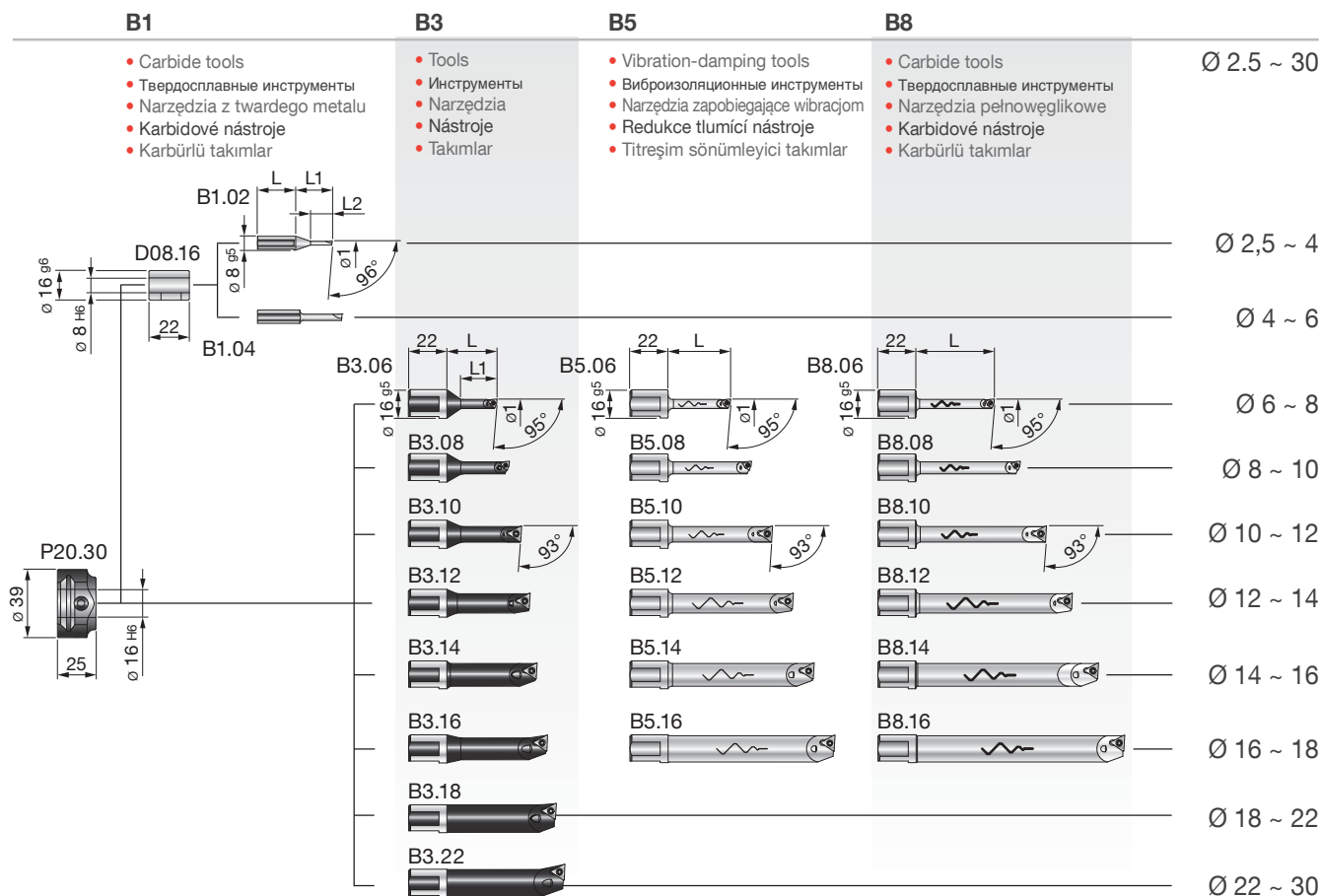
119 INFO

120 TOOLS

116 GEOMETRY

241 DRAWING





REF.	CODE	Kg.	REF.	CODE	Kg.
P20.30	431030160300	0.2	D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	△	△	🔧	🔧	Kg.		
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035		
B3.08	572010508001	8 ~ 10	36	28					TS 211	0.04	
B3.10	572010510001	10 ~ 12	43	35			-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40							0.055
B3.12	572010512001	12 ~ 14	42	42	0.06						
B3.14	572010514001	14 ~ 16	52	50	0.07						
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1		
B3.18	572010518001	18 ~ 22	63	-					0.1		
B3.22	572010522001	22 ~ 30	68	-					0.1		

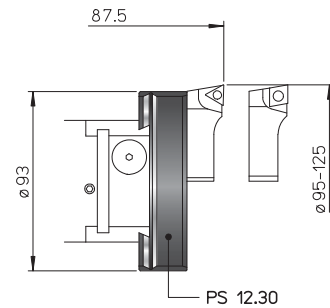
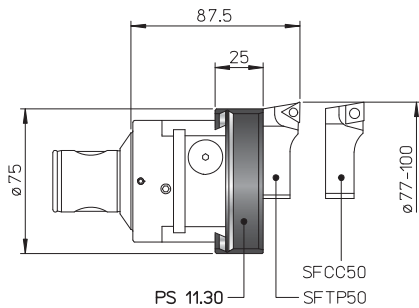
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						TS 211
B5.10	572010510105	10 ~ 12	60		-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3

B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						TS 211
B8.10	572010510108	10 ~ 12	75		-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULA

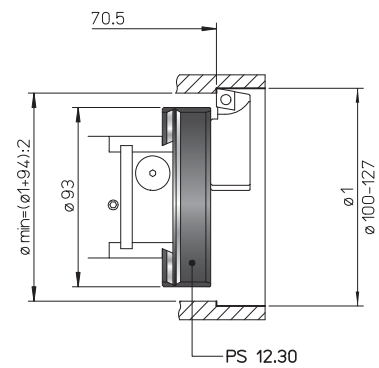
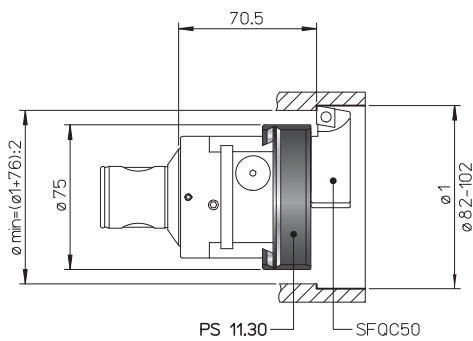
PS

Ø 77 ~ 125



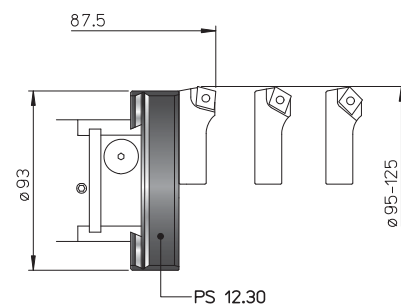
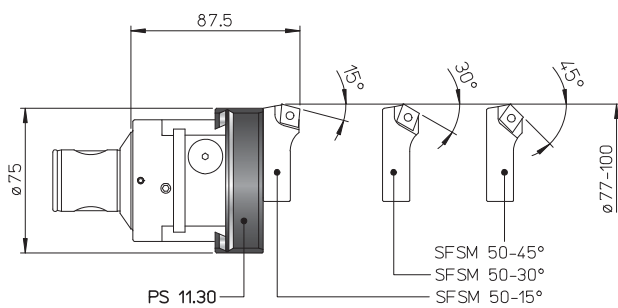
PS

Ø 82 ~ 127



PS

Ø 77 ~ 125



REF.	CODE	Kg.
PS 11.30	433030260750	0.4
PS 12.30	433030260950	0.5

119



125

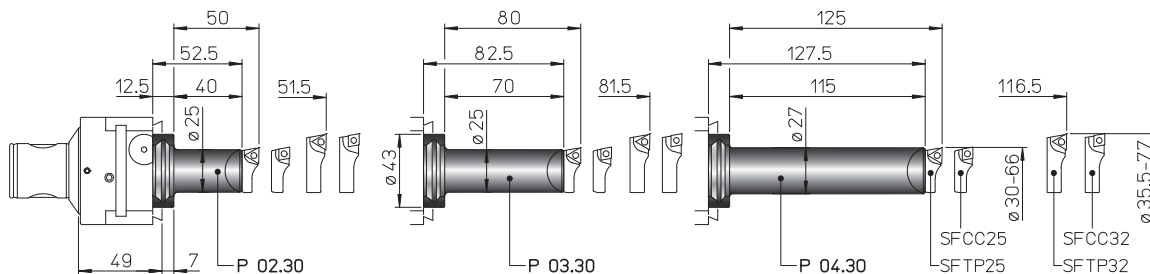


116



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

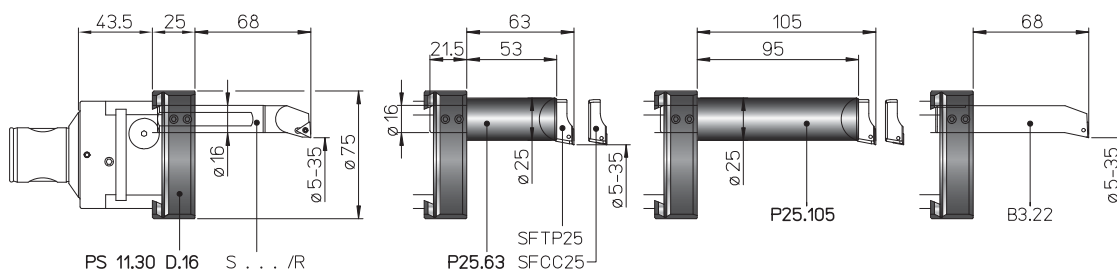
P
Ø 30 ~ 77



REF.	CODE	Kg.
P02.30	431030250400	0.3
P03.30	431030250700	0.4
P04.30	431030251150	0.7

- TESTAROSSA EXTERNAL TURNING
- TESTAROSSA ВНЕШНЕГО ОБТАЧИВАНИЯ
- TESTAROSSA TOCZENIE ZEWNĘTRZNE
- EXTERNÍ SOUSTRUŽENÍ TESTAROSSA
- TESTAROSSA DIŞ TORNALAMA

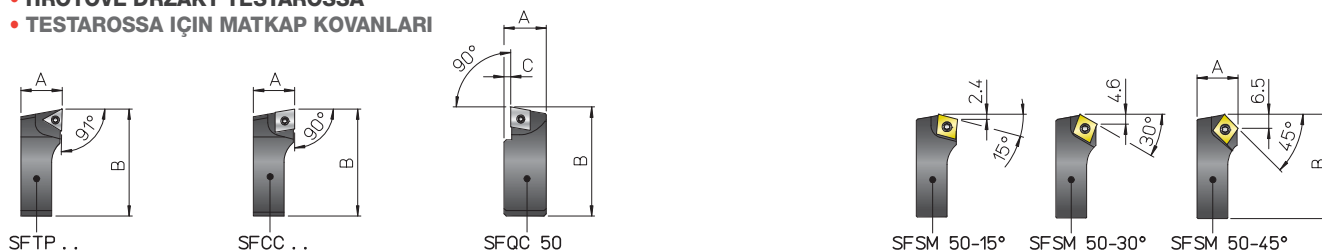
PS + P25
Ø 5 ~ 35



REF.	CODE	Kg.
PS 11.30 D.16	433030260755	0.4
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF

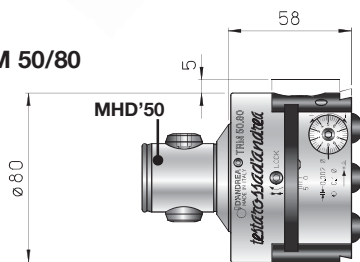


REF.	CODE	A	B	C	△	⊖	⊖	⊖	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-	-	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	-	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	-	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

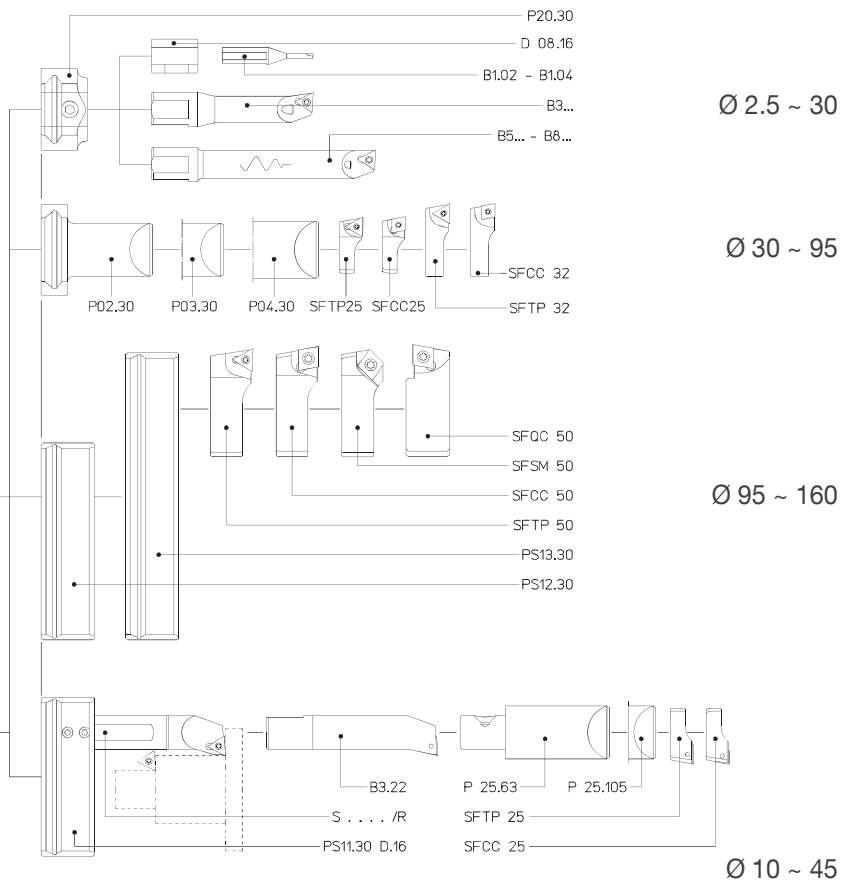
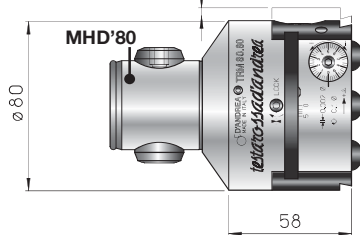


2 µm

TRM 50/80

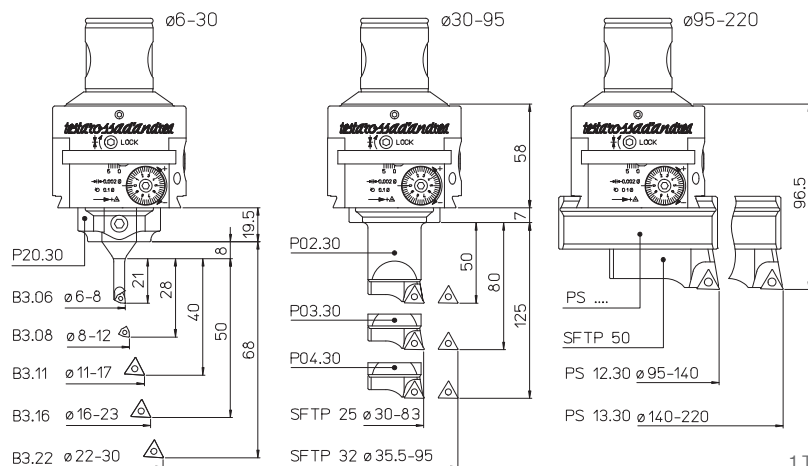


TRM 80/80



REF.	CODE	Kg.
TRM 50/80	455005000801	2
TRM 80/80	455008000801	2.5

KIT K01
 Ø 6 ~ 220



- 1 TRM.../ 80
- 1 P20.30 1 P03.30 1 SFTP50 1 B3.16 5 TPGX 090202L DC100
- 1 PS12.30 1 P04.30 1 B3.06 1 B3.22 1 TPGX 110302L DC100
- 1 PS13.30 1 SFTP25 1 B3.08 2 WCGT 020102L DC100
- 1 P02.30 1 SFTP32 1 B3.11

REF.	CODE	Ø
KIT K01 TRM 50/80	655005010802	6 ~ 220
KIT K01 TRM 80/80	655008010802	

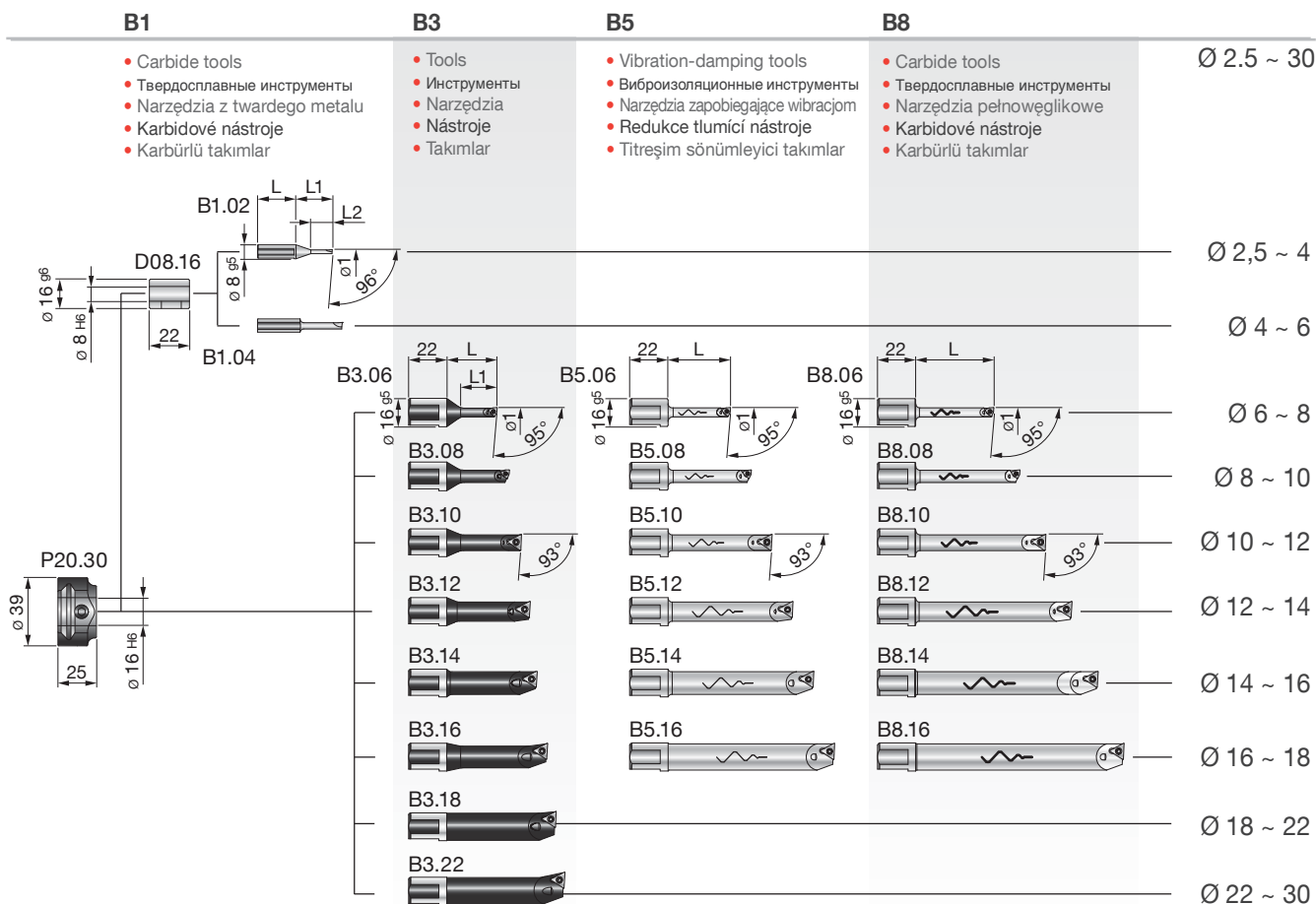
119 INFO

120

116

241





B1

- Carbide tools
- Твердосплавные инструменты
- Narzędzia z twardego metalu
- Karbidové nástroje
- Karbürli takımlar

B3

- Tools
- Инструменты
- Narzędzia
- Nástroje
- Takımlar

B5

- Vibration-damping tools
- Виброизоляционные инструменты
- Narzędzia zapobiegające wibracjom
- Redukce tlumiící nástroje
- Titreşim sönmüleyici takımlar

B8

- Carbide tools
- Твердосплавные инструменты
- Narzędzia pełnowęglkowe
- Karbidové nástroje
- Karbürli takımlar

Ø 2.5 ~ 30

Ø 2,5 ~ 4

Ø 4 ~ 6

Ø 6 ~ 8

Ø 8 ~ 10

Ø 10 ~ 12

Ø 12 ~ 14

Ø 14 ~ 16

Ø 16 ~ 18

Ø 18 ~ 22

Ø 22 ~ 30

REF.	CODE	Kg.
P20.30	431030160300	0.2

REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.		
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035		
B3.08	572010508001	8 ~ 10	36	28					TS 211	0.04	
B3.10	572010510001	10 ~ 12	43	35			-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40							0.055
B3.12	572010512001	12 ~ 14	42	50	0.06						
B3.14	572010514001	14 ~ 16	52		0.07						
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1		
B3.18	572010518001	18 ~ 22	63								
B3.22	572010522001	22 ~ 30	68	-	-	-	-	-	-		

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						TS 211
B5.10	572010510105	10 ~ 12	60		-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3

B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						TS 211
B8.10	572010510108	10 ~ 12	75		-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3

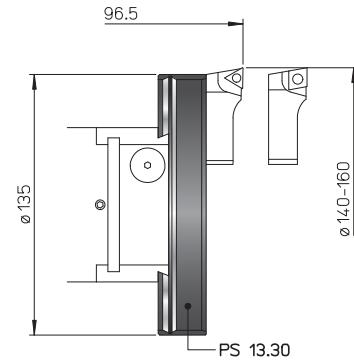
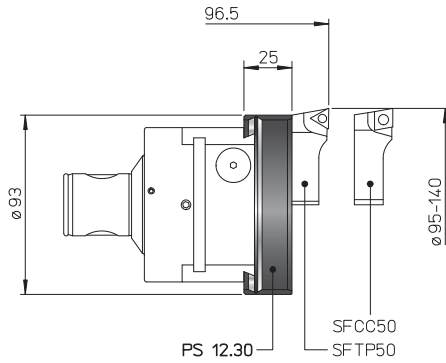
TRM 50/80

TRM 80/80 Ø 95 ~ 162

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

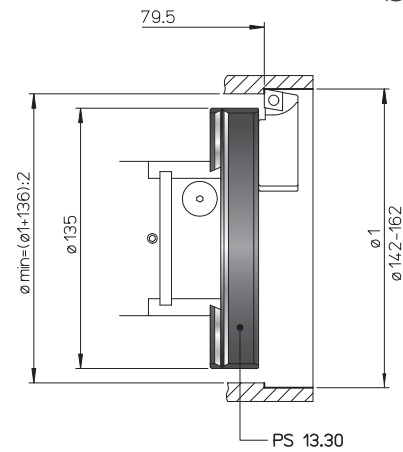
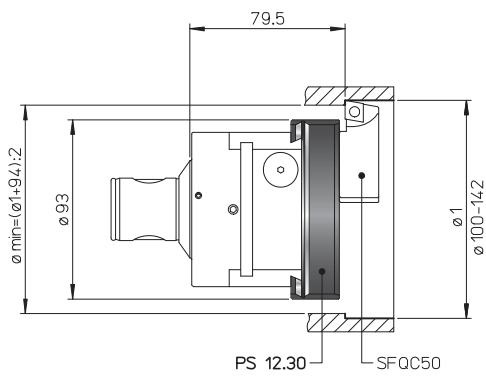
PS

Ø 95 ~ 160



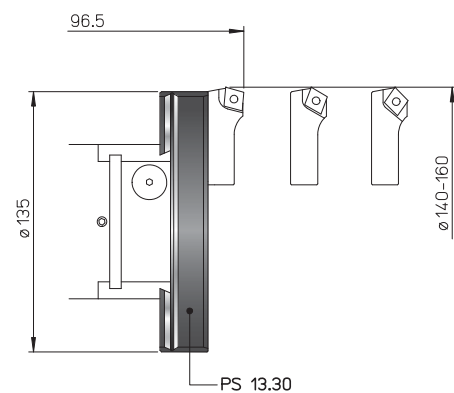
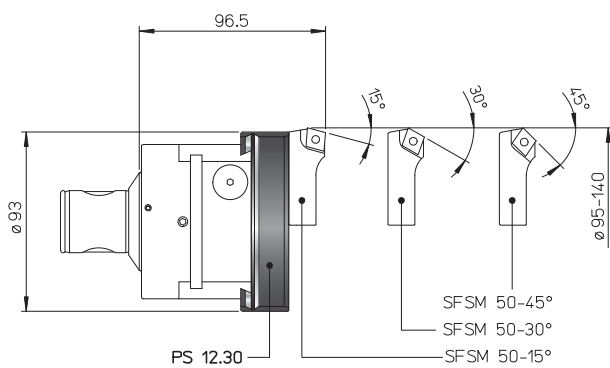
PS

Ø 100 ~ 162



PS

Ø 95 ~ 160



REF.	CODE	Kg.
PS 12.30	433030260950	0.5
PS 13.30	433030261400	0.7

119



125

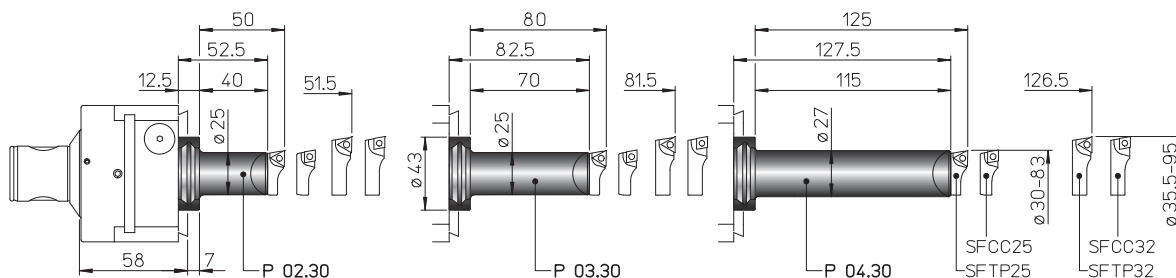


116



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁÓWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

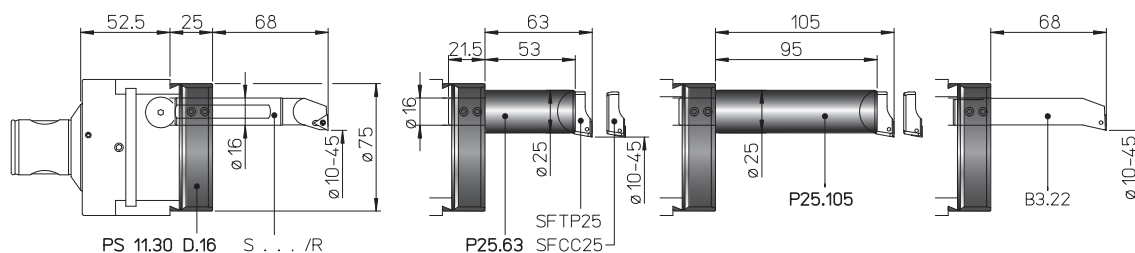
P
Ø 30 ~ 95



REF.	CODE	Kg.
P02.30	431030250400	0.3
P03.30	431030250700	0.4
P04.30	431030251150	0.7

- TESTAROSSA EXTERNAL TURNING
- TESTAROSSA ВНЕШНЕГО ОБТАЧИВАНИЯ
- TESTAROSSA TOCZENIE ZEWNĘTRZNE
- EXTERNÍ SOUSTRUŽENÍ TESTAROSSA
- TESTAROSSA DIŞ TORNALAMA

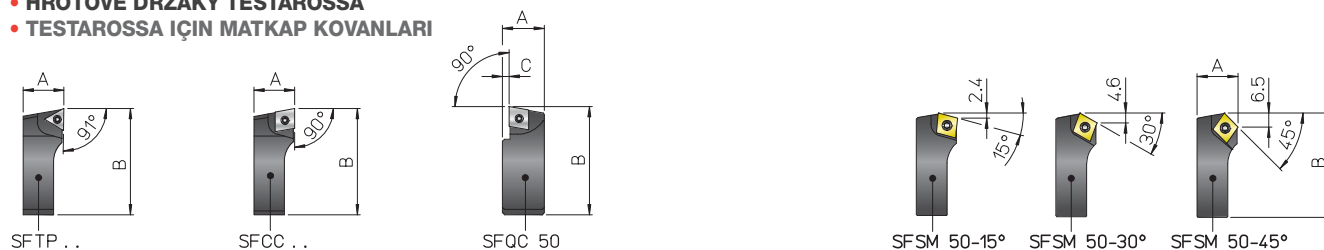
PS + P25
Ø 10 ~ 45



REF.	CODE	Kg.
PS 11.30 D.16	433030260755	0.4
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁÓWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



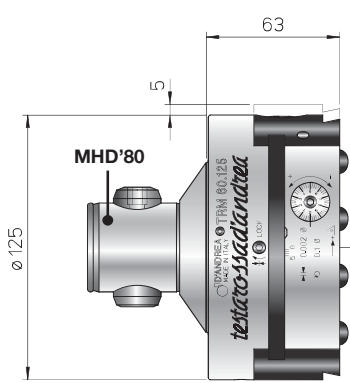
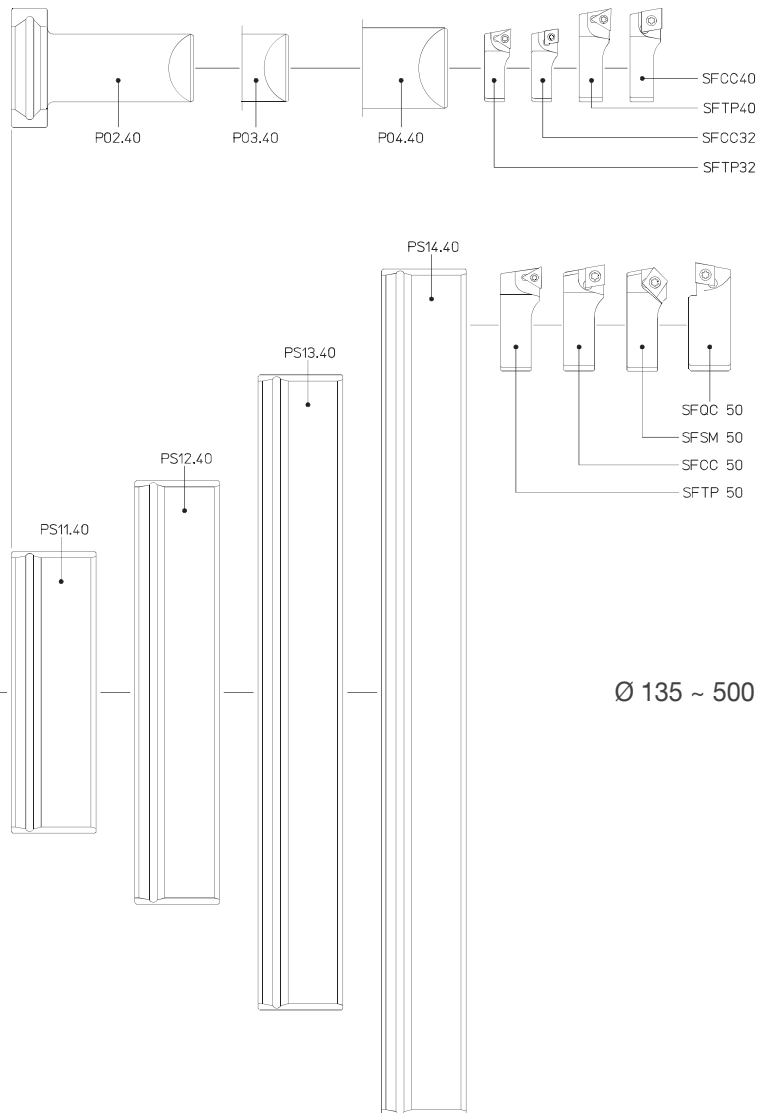
REF.	CODE	A	B	C	△	□	⊥	⊞	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

D'ANDREA MODULHARD'ANDREA

2 µm



Ø 36 ~ 138



Ø 135 ~ 500

REF.	CODE	Kg.
TRM 80/125	455008001251	5.5

119



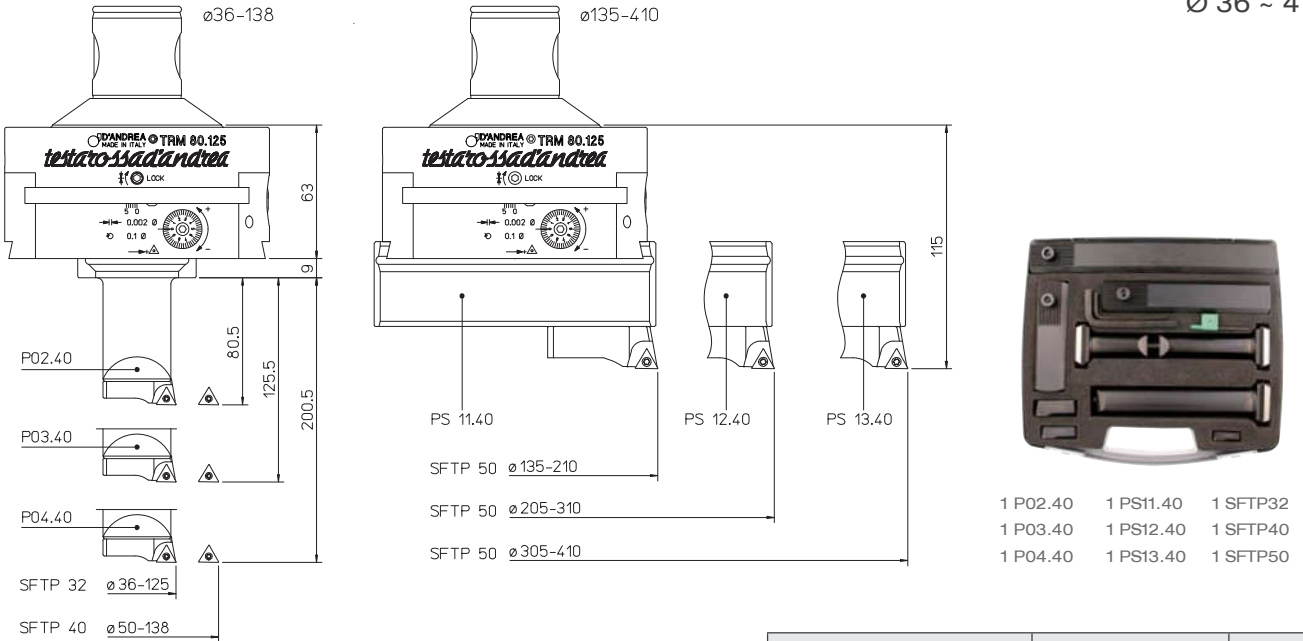
120



116

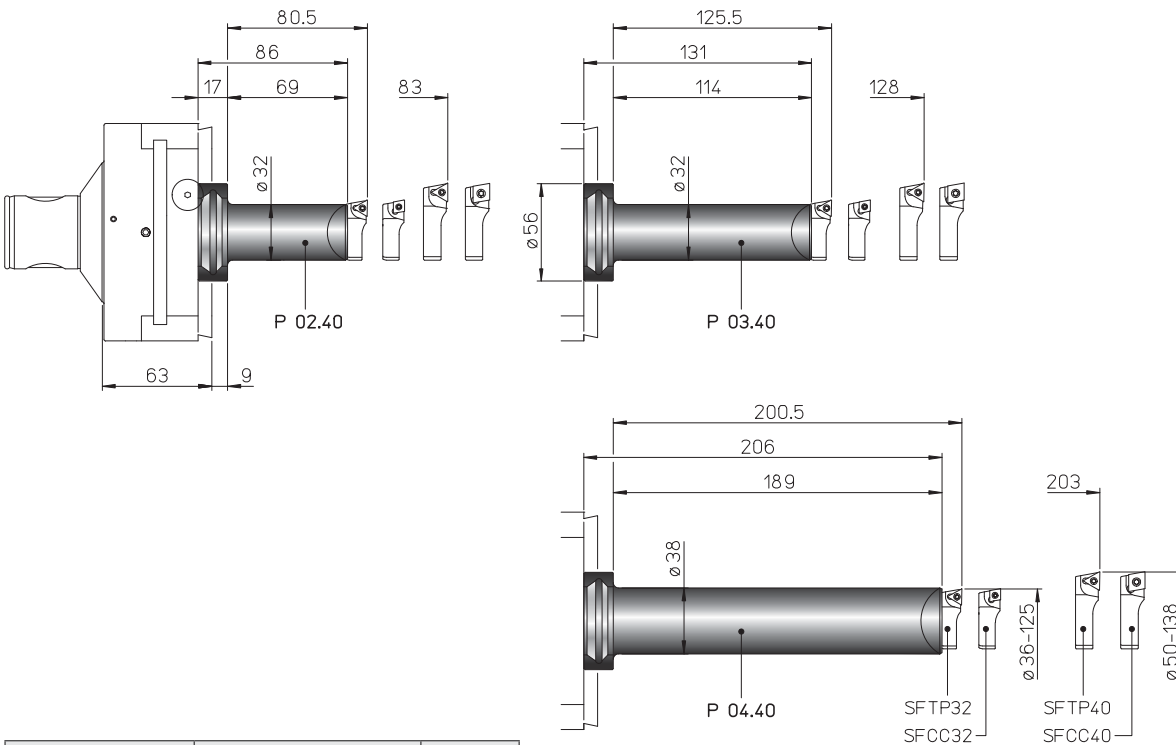


KIT K03
Ø 36 ~ 410



REF.	CODE	Ø
KIT K03 TRM 80/125	655012500030	36 ~ 410

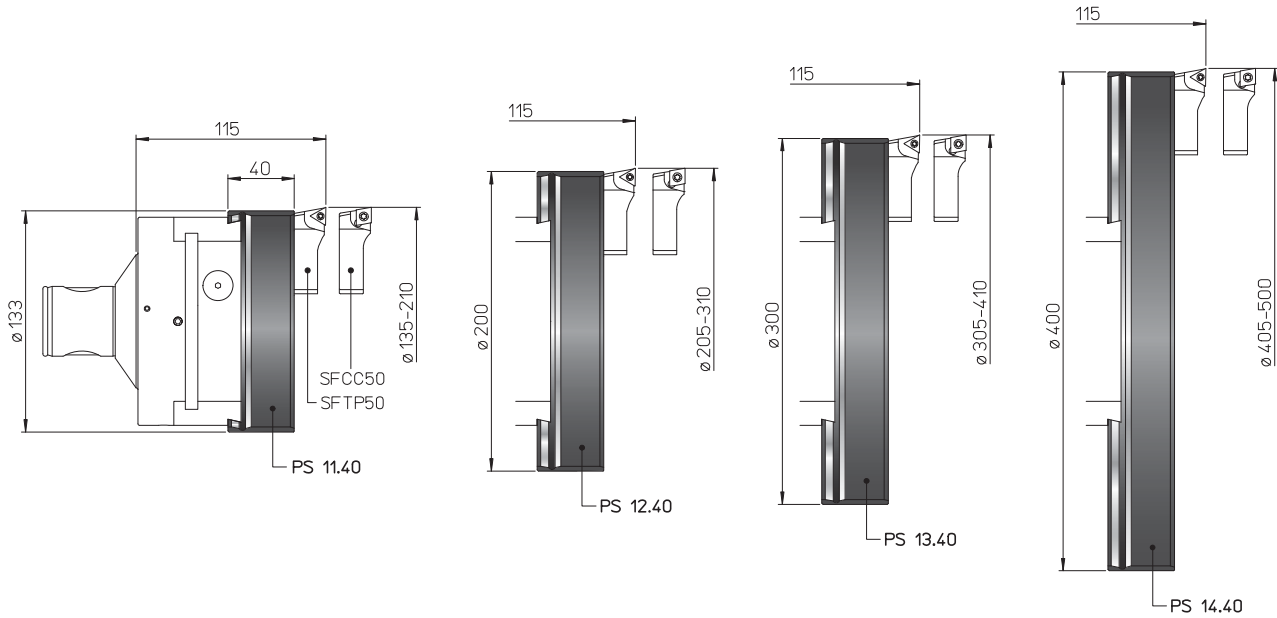
P
Ø 36 ~ 138



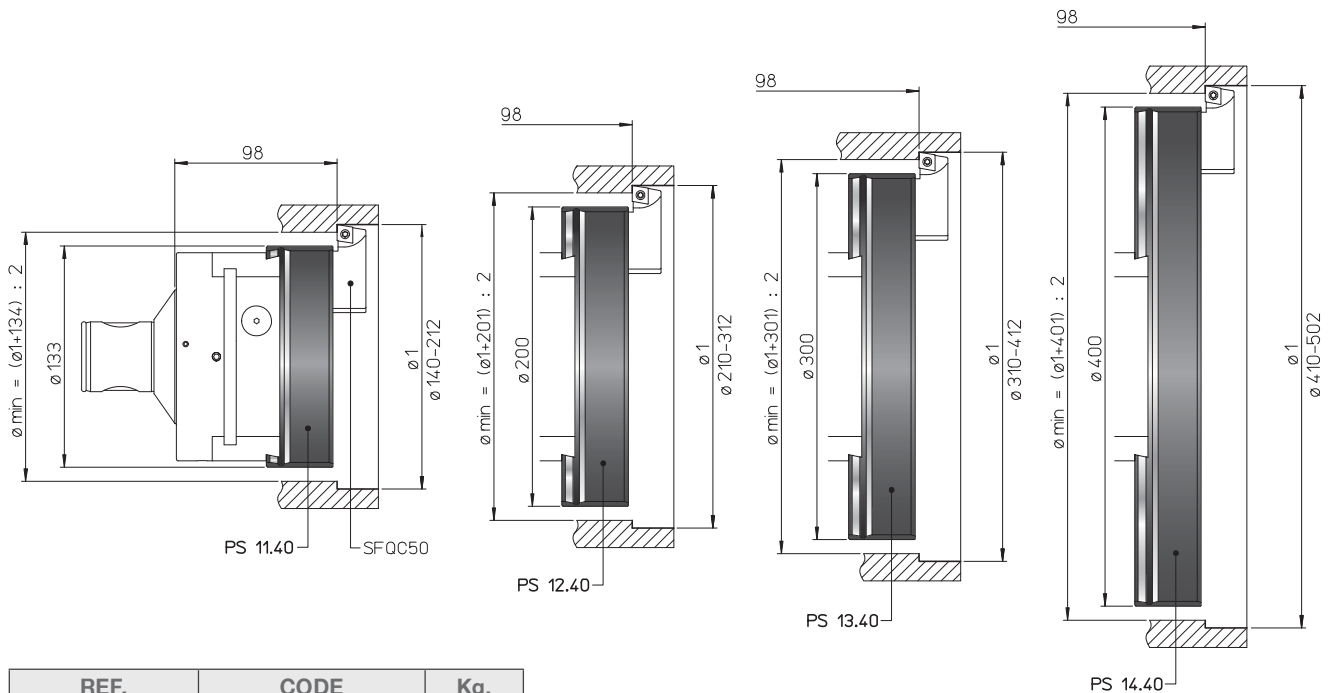
REF.	CODE	Kg.
P02.40	431040320700	0.7
P03.40	431040321150	1
P04.40	431040321900	2

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO ŁÓWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS

 \varnothing 135 ~ 500

PS

 \varnothing 140 ~ 502

REF.	CODE	Kg.
PS 11.40	433040351500	1.5
PS 12.40	433040352300	2.4
PS 13.40	433040353300	3.5
PS 14.40	433040354000	4.6

119



125

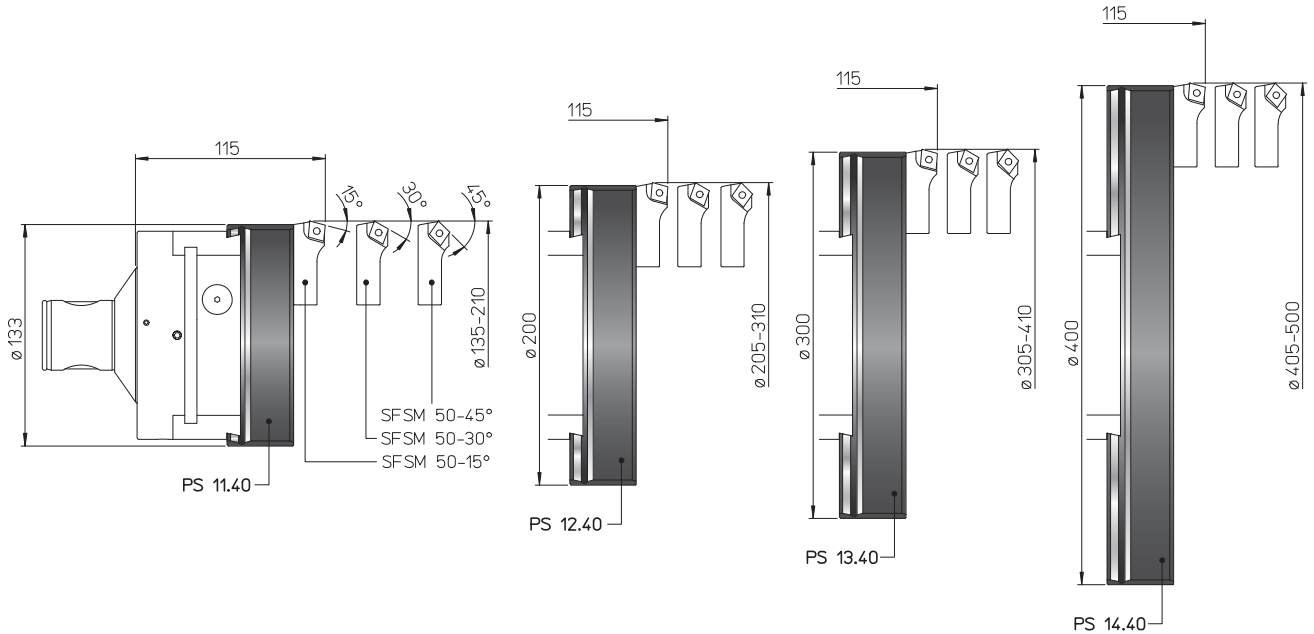


116



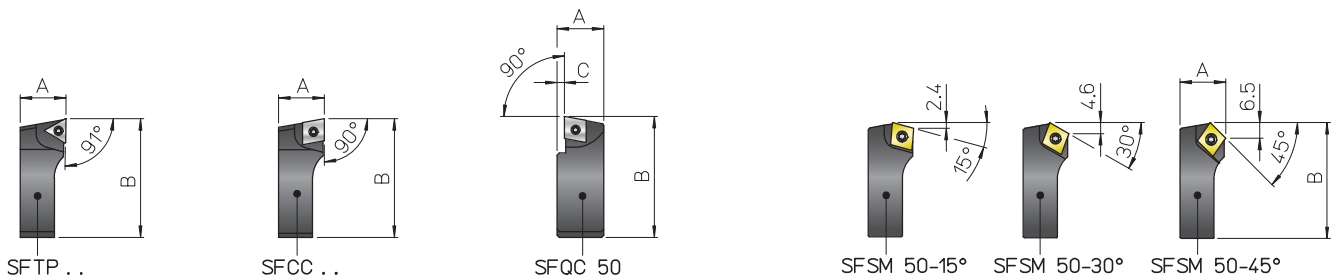
- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS
Ø 135 ~ 500



- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF

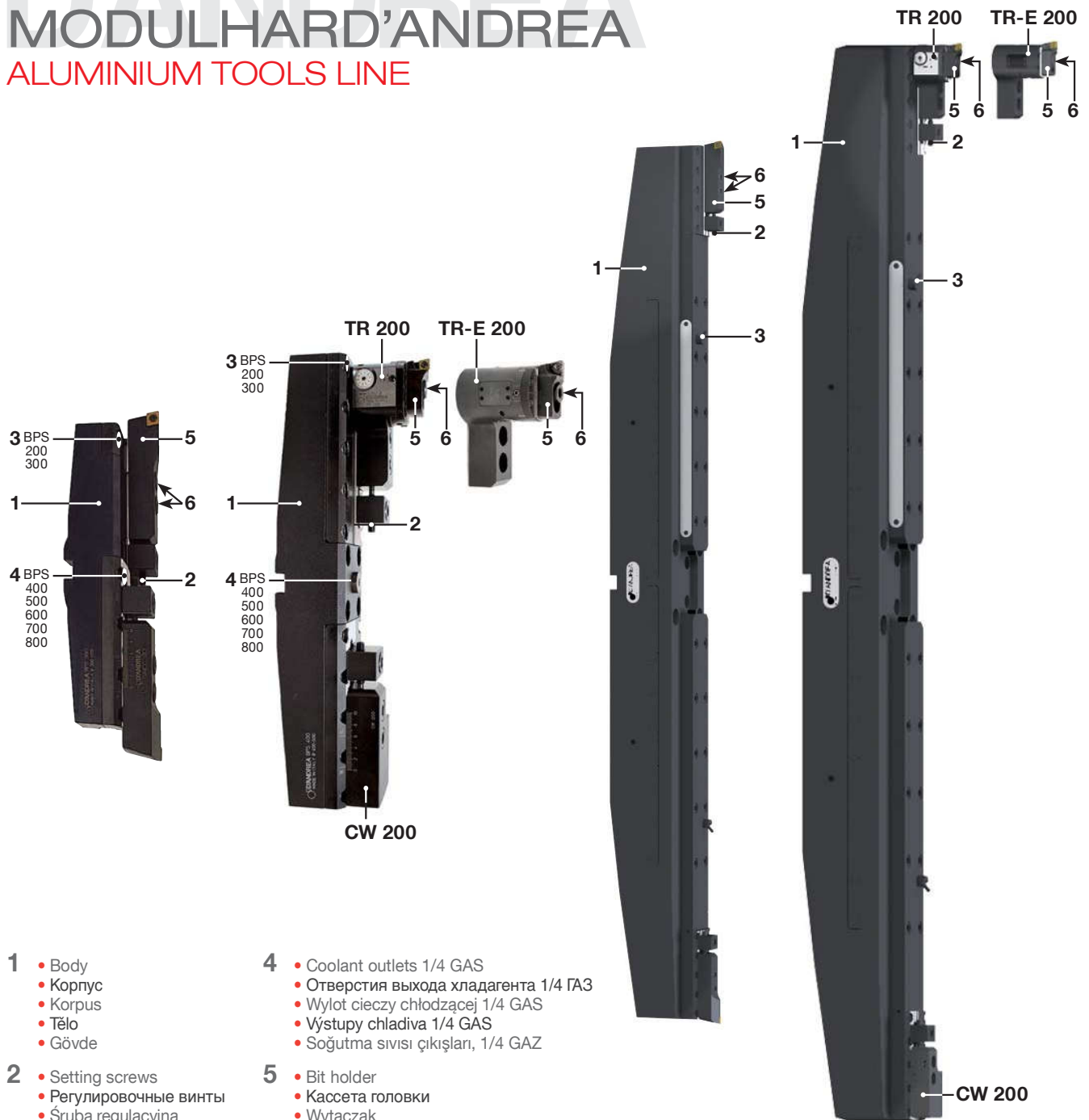


REF.	CODE	A	B	C	△	⊖	⊓	⌘	Kg.
SFTP 32	470500532001	11.5	34.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.02
SFTP 40	470500540001	14	44	-	TPGX 1103..	-	CS 300890T		0.04
SFTP 50	470500550001	19	52	-	-	-	-		0.08
SFCC 32	470500532002	11.5	34.5	-	-	CCGT 0602..	TS 25	TORX T08	0.02
SFCC 40	470500540002	14	44	-	-	CCGT 09T3..	TS 4	TORX T15	0.04
SFCC 50	470500550002	19	52	-	-	-	-	-	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

D'ANDREA

MODUL HARD'ANDREA

ALUMINIUM TOOLS LINE



- | | |
|---|--|
| <p>1</p> <ul style="list-style-type: none"> • Body • Корпус • Korpus • Tělo • Gövde | <p>4</p> <ul style="list-style-type: none"> • Coolant outlets 1/4 GAS • Отверстия выхода хладагента 1/4 ГАЗ • Wylot cieczy chłodzącej 1/4 GAS • Výstupy chladiva 1/4 GAS • Soğutma sıvısı çıkışları, 1/4 GAZ |
| <p>2</p> <ul style="list-style-type: none"> • Setting screws • Регулировочные винты • Śruba regulacyjna • Nastavovací šrouby • Ayar vidaları | <p>5</p> <ul style="list-style-type: none"> • Bit holder • Кассета головки • Wytaczak • Hrotový držák • Matkap kovani |
| <p>3</p> <ul style="list-style-type: none"> • Coolant outlets • Отверстия выхода хладагента • Wylot cieczy chłodzącej • Výstupy chladiva • Soğutma sıvısı çıkışları | <p>6</p> <ul style="list-style-type: none"> • Tools clamp screws • Зажимные винты инструмента • Śruby blokujące narzędzie • Upínací šrouby nástroje • Takımların sıkma vidaları |

GB The BPS double-bit crossbars cover a working area from \varnothing 200 - 2700 mm. The BPS double-bit crossbars are constructed in Aluminium and mounted on a steel double-bit plate.

RU Двухрезцовые штанги BPS охватывают диапазон от 200 до 2700 мм. Корпус штанги BPS изготовлен из специального алюминиевого сплава и усилен стальной пластиной, на которой крепится кассета.

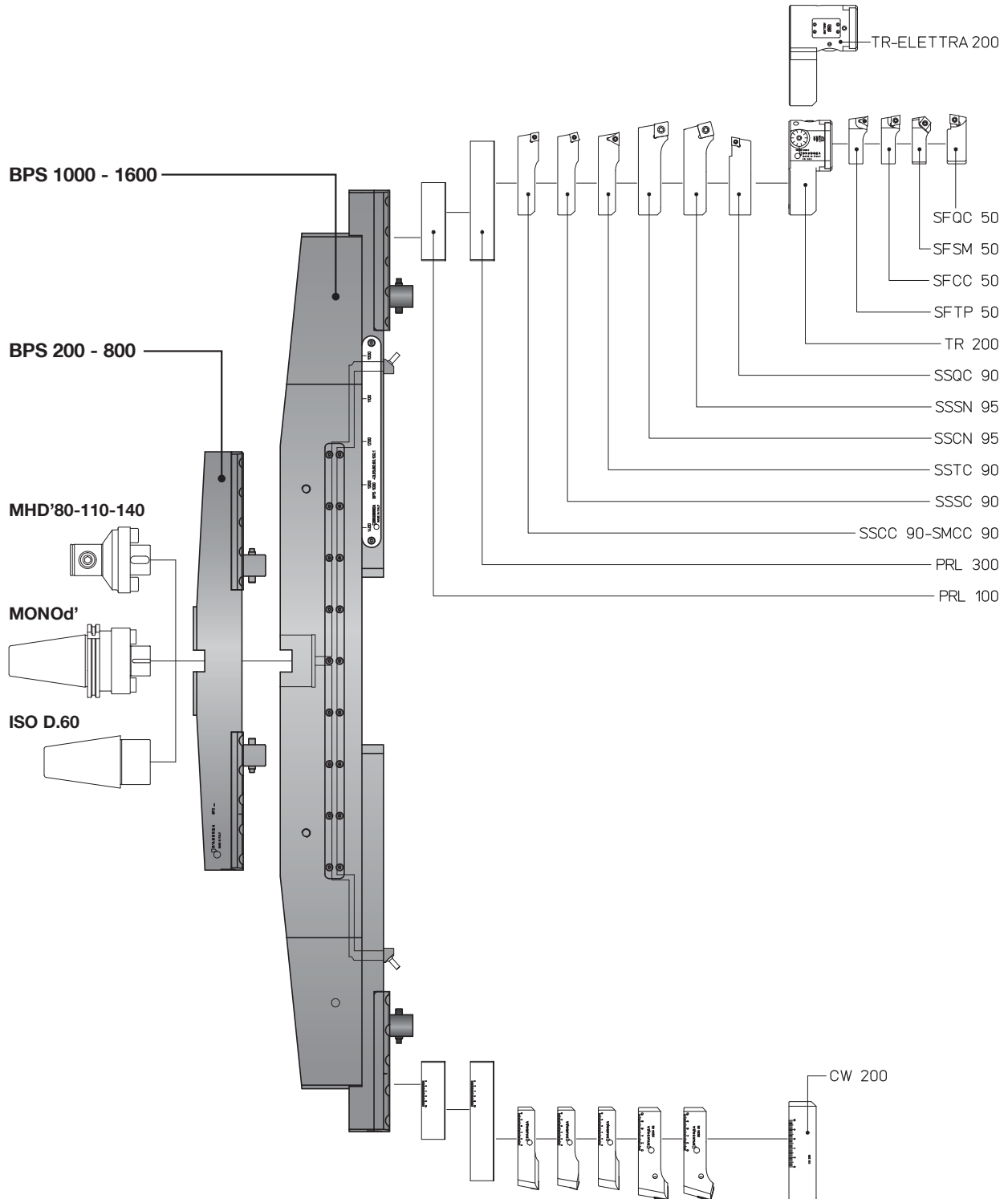
PL Wytaczadła typu BPS pozwalają obsłużyć zakres średnic od 200 do 2700 mm. Wytaczadła wykonywane są z aluminium, na którym mocowana jest stalowa płytka.

CZ Přičky dvouhrotového BPS pokrývají pracovní oblast od \varnothing 200 - 2700 mm. Přičky dvouhrotového BPS jsou konstruovány v hliníku a namontovány na ocelovou dvouhrotovou desku.

TR BPS çift uçlu çapraz kollar \varnothing 200 - 2700 mm arasında bir çalışma alanını kapsar. BPS çift uçlu çapraz kollar alüminyumdan mamuldür ve çelik çift uçlu plakanın üzerine monte edilir.



- DOUBLE-BIT CROSSBARS FOR BIG DIAMETERS
- ДВУХРЕЗЦОВЫЕ РАСТОЧНЫЕ ШТАНГИ ДЛЯ БОЛЬШИХ ДИАМЕТРОВ
- WYTACZADŁA WIELKOŚREDNICOWE
- DVOUHROTOVÉ PŘÍČKY PRO VELKÉ PRŮMĚRY
- BÜYÜK ÇAPLAR İÇİN ÇİFT UÇLU ÇAPRAZ KOLLAR



REF.	CODE	Kg.
BPS 200	435540881980	3.2
BPS 300	435540882980	3.9
BPS 400	435540883980	6.9
BPS 500	435560884940	9.4
BPS 600	435560885940	9.9

REF.	CODE	Kg.
BPS 700	435560886940	11.2
BPS 800	435560887940	15.2
BPS 1000 GD	435560901001	55
BPS 1150 GD	435560901151	70
BPS 1600 GD	435560901601	115

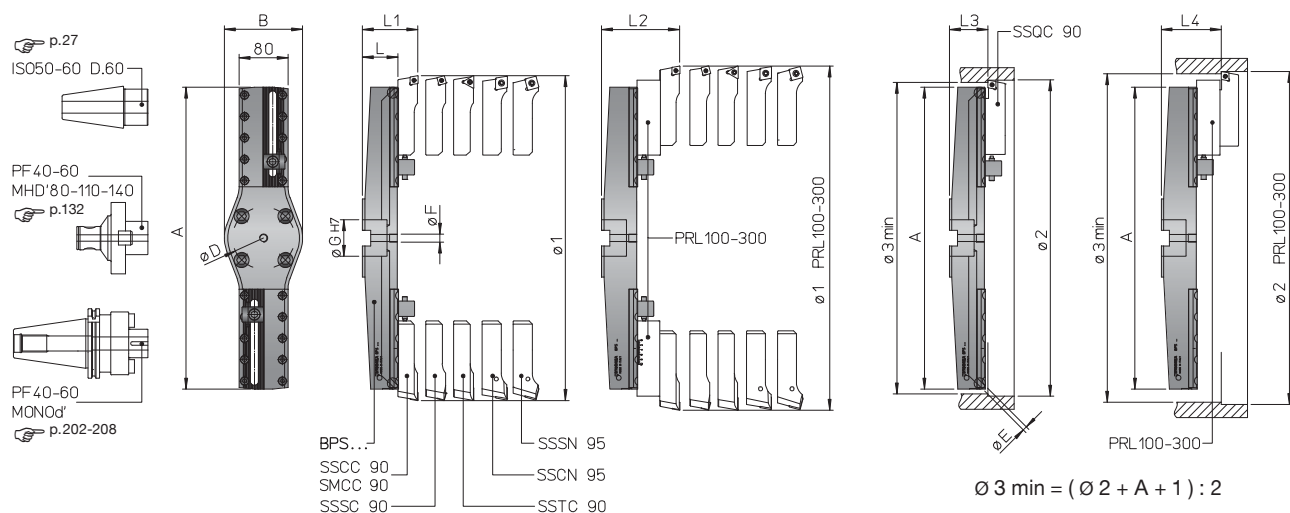
D'ANDREA

MODULHARD'ANDREA

ALUMINIUM TOOLS LINE

BPS 200~800 Ø 200 ~ 1200

- DOUBLE-BIT BORING CROSSBARS
- ДВУХРЕЗЦОВЫЕ ШТАНГИ
- WYTACZADŁA DWUONOŻOWE
- DVOUHROTOVÉ PŘÍČKY PRO VYVRTÁVÁNÍ
- DELİK AÇMA İÇİN ÇİFT UÇLU ÇAPRAZ KOLLAR



	BPS 200	BPS 300	BPS 400	BPS 500	BPS 600	BPS 700	BPS 800
A	194	288	394	494	594	694	794
B	-			128			
Ø D	(4xM12) 66.7			(4xM16) 101.6			
Ø E	2.5		-				
Ø F	-		1/4 GAS				
Ø G	40			60			
Ø 1	200 ~ 300	300 ~ 400	400 ~ 500	500 ~ 600	600 ~ 700	700 ~ 800	800 ~ 900
Ø 1 PRL 100	300 ~ 400	400 ~ 500	500 ~ 600	600 ~ 700	700 ~ 800	800 ~ 900	900 ~ 1000
Ø 1 PRL 300	400 ~ 600	500 ~ 700	600 ~ 800	700 ~ 900	800 ~ 1000	900 ~ 1100	1000 ~ 1200
Ø 2	202 ~ 302	302 ~ 402	402 ~ 502	502 ~ 602	602 ~ 702	702 ~ 802	802 ~ 902
Ø 2 PRL 100	302 ~ 402	402 ~ 502	502 ~ 602	602 ~ 702	702 ~ 802	802 ~ 902	902 ~ 1002
Ø 2 PRL 300	402 ~ 602	502 ~ 702	602 ~ 802	702 ~ 902	802 ~ 1002	902 ~ 1102	1002 ~ 1202
L	54		61	69	71	74	80
L1 S...90	86		93	101	103	106	112
L1 S...95	94		101	109	111	114	120
L2 PRL 100 S...90	116		123	131	133	136	142
L2 PRL 300 S...90	126		133	141	143	146	152
L2 PRL 100 S...95	124		131	139	141	144	150
L2 PRL 300 S...95	134		141	149	151	154	160
L3 SSQC 90	56.5		63.5	71.5	73.5	76.5	82.5
L4 PRL 100 SSQC 90	86.5		93.5	101.5	103.5	106.5	112.5
L4 PRL 300 SSQC 90	96.5		103.5	111.5	113.5	116.5	122.5

119



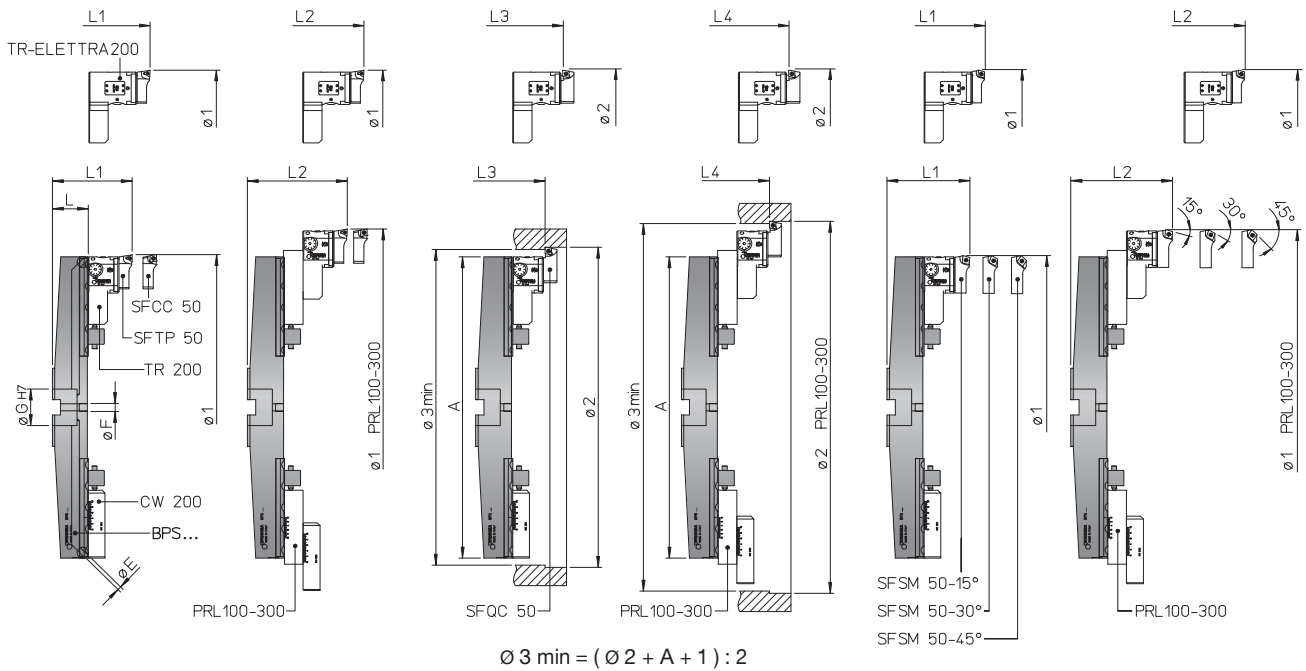
126



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- DOUBLE-BIT CROSSBARS FOR BIG DIAMETER FINISH
- ДВУХРЕЗЦОВЫЕ РАСТОЧНЫЕ ШТАНГИ ДЛЯ ЧИСТОВОЙ ОБРАБОТКИ БОЛЬШИХ ДИАМЕТРОВ
- WYTACZADŁA WYKOŃCZENIOWE WIELKOŚREDNICOWE
- DVOUHROTOVÉ PŘÍČKY PRO DOKONČENÍ VELKÝCH PRŮMĚRŮ
- BÜYÜK ÇAPLI BITİRME İŞLERİ İÇİN ÇİFT UÇLU ÇAPRAZ KOLLAR



	BPS 200	BPS 300	BPS 400	BPS 500	BPS 600	BPS 700	BPS 800					
A	194	288	394	494	594	694	794					
B	-			128								
Ø D	(4xM12) 66.7				(4xM16) 101.6							
Ø E	2.5		-									
Ø F	-		1/4 GAS									
Ø G	40				60							
Ø 1	200~300	300~400	400 ~ 500	500 ~ 600	600 ~ 700	700 ~ 800	800 ~ 900					
Ø 1 PRL 100	300~400	400~500	500 ~ 600	600 ~ 700	700 ~ 800	800 ~ 900	900 ~ 1000					
Ø 1 PRL 300	400~600	500~700	600 ~ 800	700 ~ 900	800 ~ 1000	900 ~ 1100	1000 ~ 1200					
Ø 2	202~302	302~402	402 ~ 502	502 ~ 602	602 ~ 702	702 ~ 802	802 ~ 902					
Ø 2 PRL 100	302~402	402~502	502 ~ 602	602 ~ 702	702 ~ 802	802 ~ 902	902 ~ 1002					
Ø 2 PRL 300	402~602	502~702	602 ~ 802	702 ~ 902	802 ~ 1002	902 ~ 1102	1002 ~ 1202					
L	54		61		69		71		74		80	
	TR-200	TR-E200	TR-200	TR-E200	TR-200	TR-E200	TR-200	TR-E200	TR-200	TR-E200	TR-200	TR-E200
L1	120	147	127	154	135	162	137	164	140	167	146	173
L2 PRL 100	150	177	157	184	165	192	167	194	170	197	176	203
L2 PRL 300	160	187	167	194	175	202	177	204	180	207	186	213
L3	103	130	110	137	118	145	120	147	123	150	129	156
L4 PRL 100	133	160	140	167	148	175	150	177	153	180	159	186
L4 PRL 300	143	170	150	177	158	185	160	187	163	190	169	196



D'ANDREA

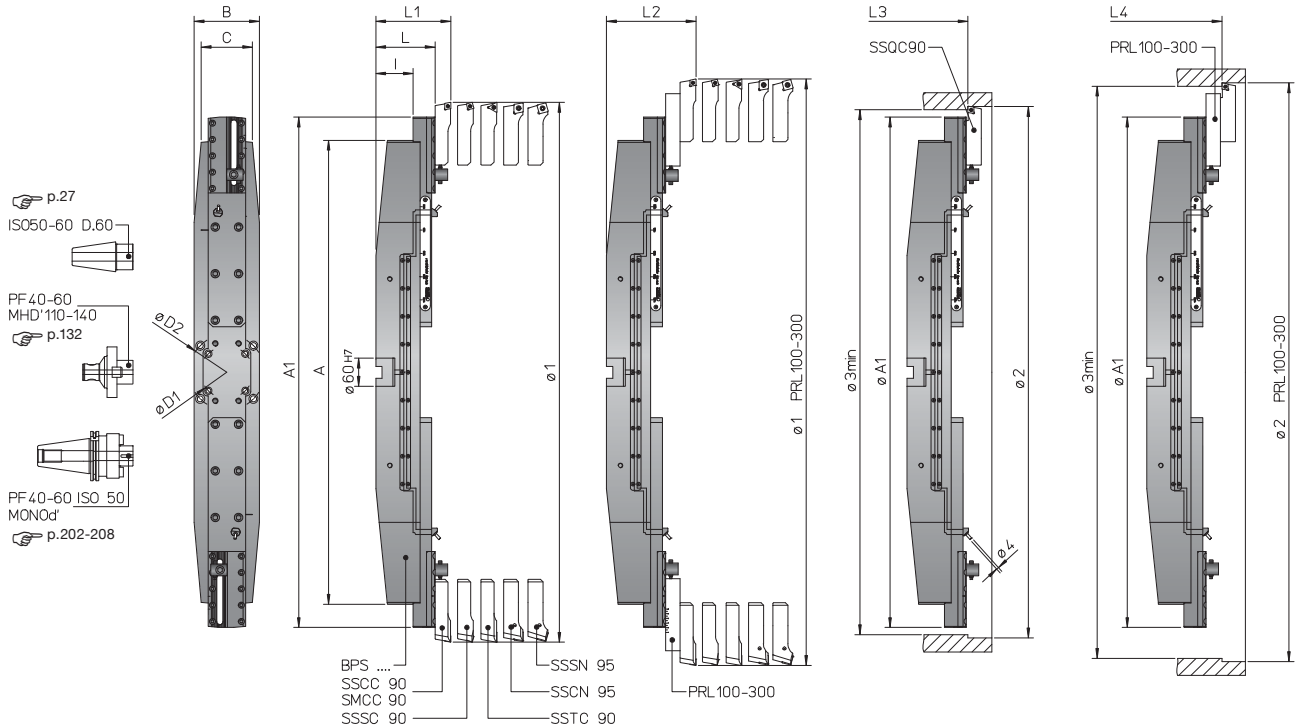
MODULHARD'ANDREA

ALUMINIUM TOOLS LINE

BPS 1000~1600 GD

Ø 1000 ~ 2700

- DOUBLE-BIT BORING CROSSBARS
- ДВУХРЕЗЦОВЫЕ РАСТОЧНЫЕ ШТАНГИ
- WYTACZADŁA DWUNOŻOWE
- DVOUHROTOVÉ PŘÍČKY PRO VYVRTÁVÁNÍ
- DELİK AÇMA İÇİN ÇİFT UÇLU ÇAPRAZ KOLLAR



$$\varnothing 3 \text{ min} = (\varnothing 2 + A1 + 1) : 2$$

	BPS 1000 GD	BPS 1150 GD	BPS 1600 GD
A	995		1595
A1	995 ~ 1395	1495 ~ 1695	1595 ~ 2295
B	140		170
C	110		130
Ø D1	(4xM16) 101.6		
Ø D2	-		(4xM20) 177.8
Ø 1	1000 ~ 1500	1500 ~ 1800	1600 ~ 2400
Ø 1 PRL 100	1100 ~ 1600	1600 ~ 1900	1700 ~ 2500
Ø 1 PRL 300	1200 ~ 1800	1700 ~ 2100	1800 ~ 2700
Ø 2	1002 ~ 1502	1502 ~ 1802	1602 ~ 2402
Ø 2 PRL 100	1102 ~ 1602	1602 ~ 1902	1702 ~ 2502
Ø 2 PRL 300	1202 ~ 1802	1702 ~ 2102	1802 ~ 2702
I	80		105
L	126		151
L1 S...90	158		183
L1 S...95	166		191
L2 PRL 100 S...90	188		213
L2 PRL 300 S...90	198		223
L2 PRL 100 S...95	196		221
L2 PRL 300 S...95	206		231
L3 SSQC 90	128,5		153,5
L4 PRL 100 SSQC 90	158,5		183,5
L4 PRL 300 SSQC 90	168,5		193,5

119



126



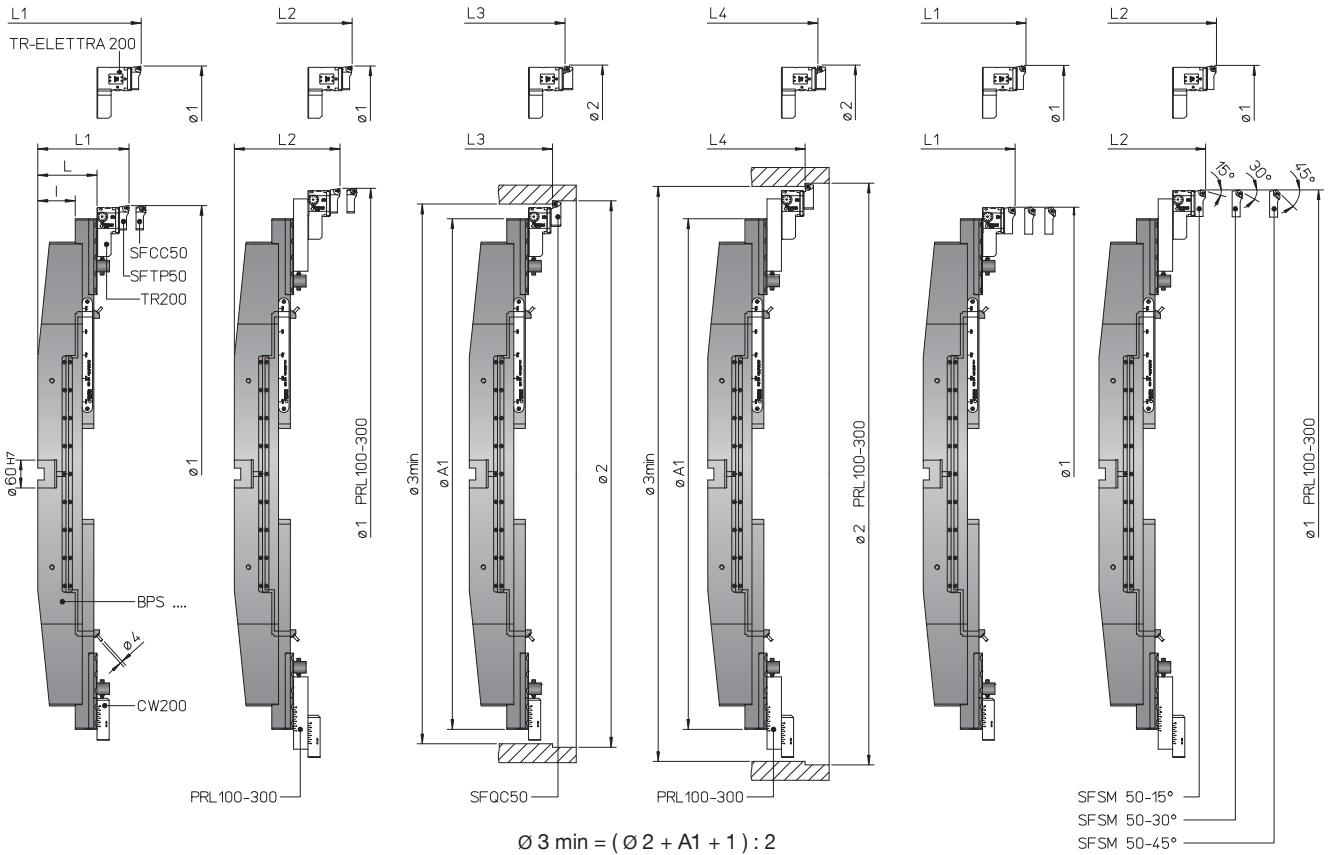
116



BPS 1000~1600 GD

Ø 1000 ~ 2700

- DOUBLE-BIT CROSSBARS FOR BIG DIAMETER FINISH
- ДВУХРЕЗЦОВЫЕ РАСТОЧНЫЕ ШТАНГИ ДЛЯ ЧИСТОВОЙ ОБРАБОТКИ БОЛЬШИХ ДИАМЕТРОВ
- WYTACZADŁA WYKOŃCZENIOWE WIELKOŚREDNICOWE
- DVOUHROTOVÉ PŘÍČKY PRO DOKONČENÍ VELKÝCH PRŮMĚRŮ
- GENİŞ ÇAPLI BITİRME İŞLERİ İÇİN ÇİFT UÇLU ÇAPRAZ KOLLAR



	BPS 1000 GD		BPS 1150 GD		BPS 1600 GD	
A	995				1595	
A1	995 ~ 1395		1495 ~ 1695		1595 ~ 2295	
B	140				170	
C	110				130	
Ø D1	(4xM16) 101.6					
Ø D2	-					
Ø 1	1000 ~ 1500		1500 ~ 1800		1600 ~ 2400	
Ø 1 PRL 100	1100 ~ 1600		1600 ~ 1900		1700 ~ 2500	
Ø 1 PRL 300	1200 ~ 1800		1700 ~ 2100		1800 ~ 2700	
Ø 2	1002 ~ 1502		1502 ~ 1802		1602 ~ 2402	
Ø 2 PRL 100	1102 ~ 1602		1602 ~ 1902		1702 ~ 2502	
Ø 2 PRL 300	1202 ~ 1802		1702 ~ 2102		1802 ~ 2702	
I	80				105	
	TR-200	TR-ELETTRA200	TR-200	TR-ELETTRA200	TR-200	TR-ELETTRA200
L	126	153	126	153	151	178
L1	192	219	192	219	217	244
L2 PRL 100	222	249	222	249	247	274
L2 PRL 300	232	259	232	259	257	284
L3	175	202	175	202	200	227
L4 PRL 100	205	232	205	232	230	257
L4 PRL 300	215	242	215	242	240	267



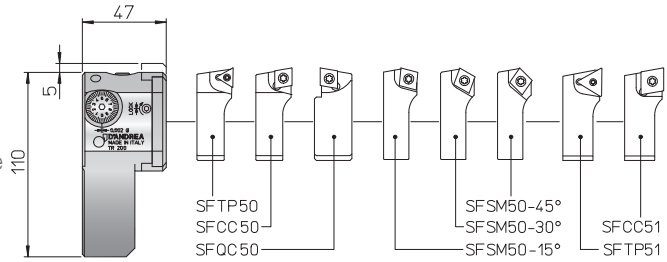
- MICROMETRIC HEAD TR 200 / TR-ELETTRA 200
- МИКРОМЕТРИЧЕСКАЯ ГОЛОВКА TR 200 / TR-ELETTRA 200
- GŁOWICA MIKROMETRYCZNA TR 200 / TR-ELETTRA 200
- MIKROMETRICKÁ HLAVA TR 200 / TR-ELETTRA 200
- MIKROMETRIK KAFA TR 200 / TR-ELETTRA 200

TR 200

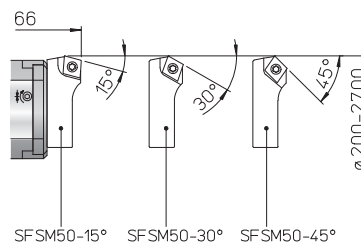
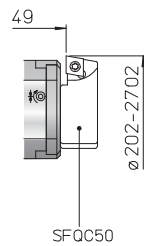
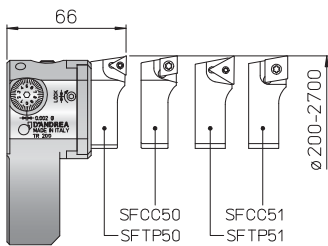


- Body
• Корпус
• Korpus
• Tělo
• Gövde
- Slide toolholder
• Салазки
• Śanie narzędziowe
• Šoupátko nástrojového držáku
• Kayar takim tutucu
- Micrometric vernier scale
• Микрометрический нониус
• Noniusz mikrometryczny
• Mikrometrické měřítko vernie
• Mikrometrik verniye skalasi
- Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca śanie narzędziowe
• Upinací šroub šoupátka
• Sürgülü sikma vidasi

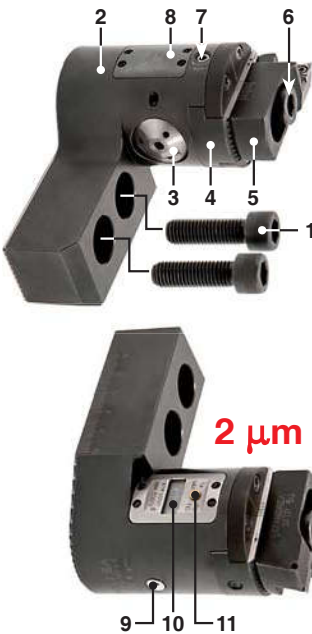
2 µm



REF.	CODE	Kg.
TR 200	455020002000	1.3

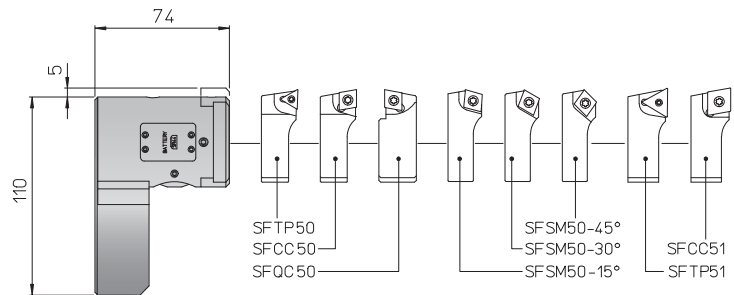


TR-ELETTRA 200

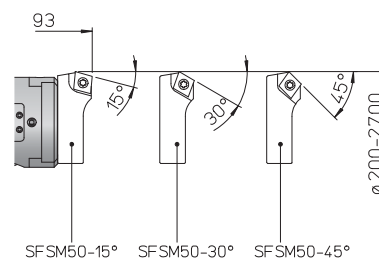
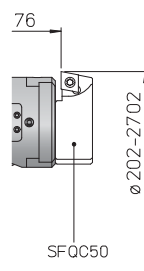
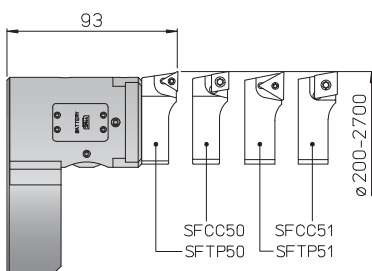


- Lock screw TR-E 200
• Фиксирующий винт
• Śruby mocujące TR-E 200
• Zajišťovací šroub TR-E 200
• Kilit vidasi TR-E 200
- Body
• Корпус
• Korpus
• Tělo
• Gövde
- Set screw
• Установочный винт
• Śruba ustawcza
• Nastavovací šroub
• Ayar vidasi
- Slide toolholder
• Салазки
• Śanie narzędziowe
• Šoupátko nástrojového držáku
• Kayar takim tutucu
- Bit holders
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani
- Tool clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Upinací šrouby nástroje
• Takimlan sikma vidalan
- Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca śanie narzędziowe
• Upinací šroub šoupátka
• Sürgülü sikma vidasi
- Battery compartment cover
• Крышка батарейного отсека
• Osłona baterii
• Kryt prostoru baterie
• Pil bölümü kapağı
- Oiler
• Масленка
• Smarownica
• Olejníčka
• Yağlayıcı
- Digital display
• Цифровой дисплей
• Wyświetlacz cyfrowy
• Digitální displej
• Dijital gösterge
- Selection button
• Кнопка выбора
• Przycisk wyboru
• Tlačítko pro výběr
• Seçim düğmesi

2 µm



REF.	CODE	Kg.
TR-ELETTRA 200	455220002000	1.7



119



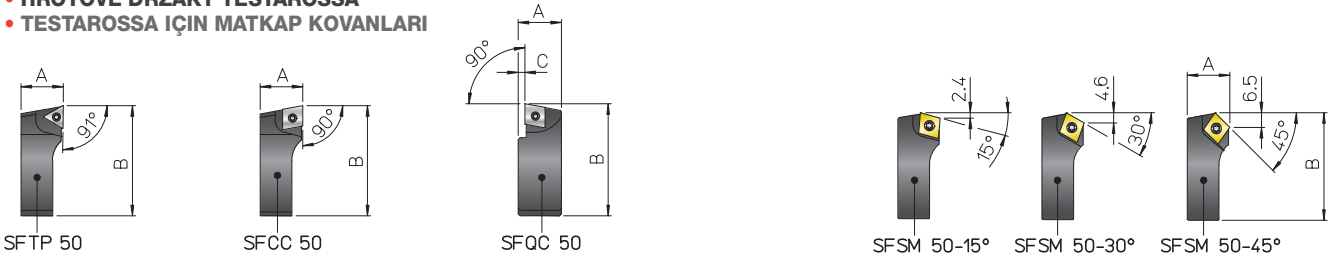
127



116



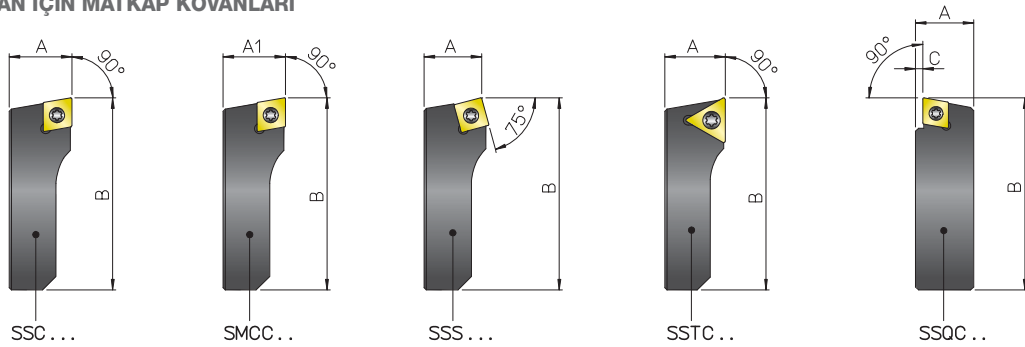
- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI



REF.	CODE	A	B	C					Kg.
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T08	0.08
SFTP 51	470500550003	21	52	-	TCMT 16T3..	-	TS 4	TORX T15	0.09
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFCC 51	470500550004	21	52	-	-	CCMT 1204..	TS 5	TORX T25	0.09
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

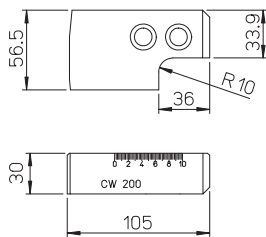
- BIT-HOLDERS FOR DOUBLE-BIT ITEMS
- КАССЕТЫ ДЛЯ ДВУХРЕЗЦОВЫХ ГОЛОВОК
- OSTRZA DO GŁOWIC DWUNOŻOWYCH
- HROTOVÉ DRŽÁKY PRO DVOUHROTOVÉ DÍLY
- ÇİFT UÇLU EKİPMAN İÇİN MATKAP KOVANLARI

SS-SM



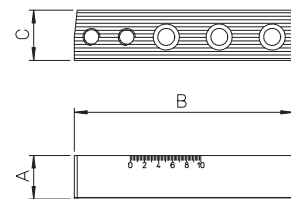
REF.	CODE	A	A1	B	C						Kg.
SSCC 90	470500590201	32	-	130	-	CCMT 1204..	-	-	TS 5	TORX T25	0.7
SSCN 95	470500595201	40	-	130	-	CNM. 1906..	-	-	p.126		0.9
SMCC 90	470500590203	-	31.7	130	-	CCMT 1204..	-	-	TS 5	TORX T25	0.7
SSSC 90	470500590202	32	-	130	-	-	SCMT 1204..	-	TS 5	TORX T25	0.7
SSSN 95	470500595202	40	-	130	-	-	SNM . 1906..	-	p.126		0.9
SSTC 90	470500590206	32	-	130	-	TCMT 2204..	-	-	TS 5	TORX T25	0.7
SSQC 90	470500590261	31.5	-	122	3.5	CCMT 1204..	-	-	TS 5	TORX T25	0.8

CW



REF.	CODE	Kg.
CW 200	392011010501	1.3

PRL

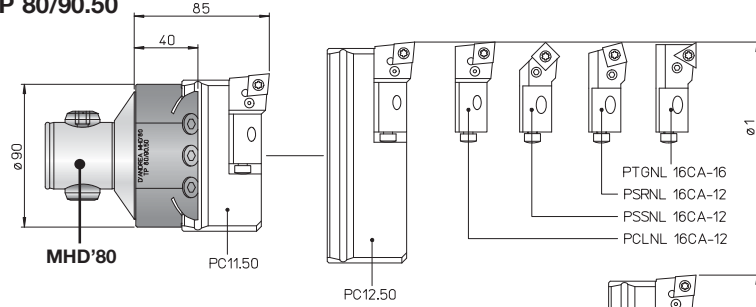
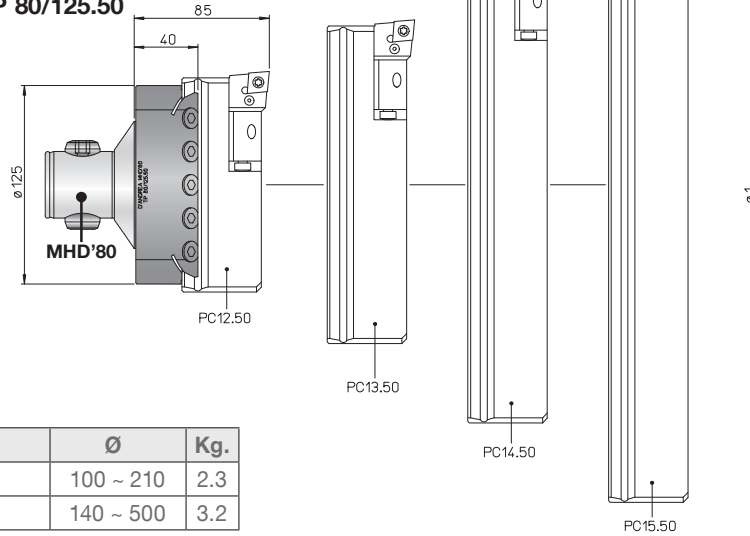


REF.	CODE	A	B	C	Kg.
PRL 100	392011015501	31	155	33.5	1.1
PRL 300	392011030001	41	255	35.5	2.8

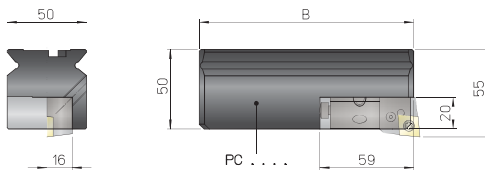


TP Ø 100 ~ 500

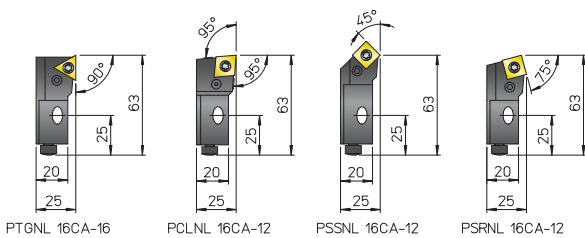
- TOOLHOLDERS
- ДЕРЖАТЕЛИ
- OPRAWKI NARZĘDZIOWE
- NÁSTROJOVÉ DRŽÁKY
- TAKIM TUTUCULAR

TP 80/90.50

TP 80/125.50


REF.	CODE	Ø	Kg.
TP 80/90.50	460408050001	100 ~ 210	2.3
TP 80/125.50	460408050002	140 ~ 500	3.2

PC


REF.	CODE	B	Ø 1 TP80/90.50	Ø 1 TP80/125.50	Kg.
PC 11.50	433050160950	95	100 ~ 140	-	1.3
PC 12.50	433050161350	135	140 ~ 210	140 ~ 210	2
PC 13.50	433050162000	200	-	210 ~ 310	3.2
PC 14.50	433050163000	300	-	310 ~ 410	4.8
PC 15.50	433050164000	400	-	410 ~ 500	6.3

16CA ISO 5611


REF.	CODE	△
PTGNL 16CA-16	483010161001	TNM. 1604..
PCLNL 16CA-12	483010161002	CNM. 1204..
PSSNL 16CA-12	483010161003	SNM. 1204..
PSRNL 16CA-12	483010161004	

• On request • Поставляются по запросу • Na zamówienie • Na vyzádán • Isteže bağlı

120



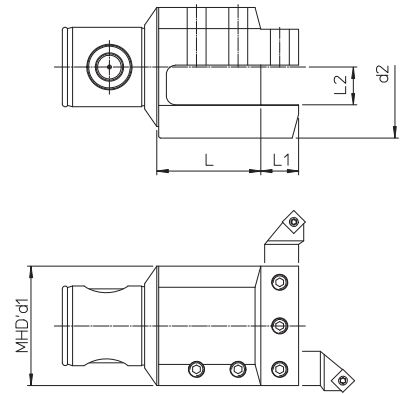
116



- TOOLHOLDERS
- ДЕРЖАТЕЛИ
- OPRAWKI NARZĘDZIOWE
- NÁSTROJOVÉ DRŽÁKY
- TAKIM TUTUCULAR

TU

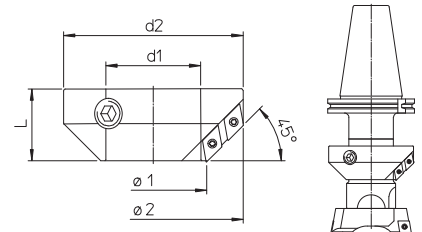
89



REF.	CODE	MHD' d1	d2	L	L1	L2	Kg.
TU 50/60.16	460505016001	50	60	44	16	16	1.2
TU 63/75.20	460506320001	63	75	55	20	20	2.4
TU 80/95.25	460508025001	80	95	65	25	25	3.6
TU 110/110.32	460511032001	110	130	78	32	32	11.2

- CHAMFERING TOOLS
- КОЛЬЦО ДЛЯ СНЯТИЯ ФАСКИ
- PIERŚCIEŃ DO SKOSÓW
- ZKOSENÉ NÁSTROJE
- YIV AÇMA TAKIMLARI

AS.. 45°

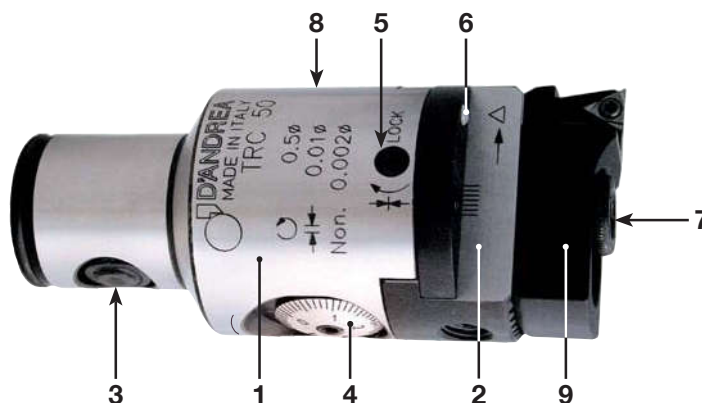


REF.	CODE	Ø1	d1	d2	L				Kg.
AS 16.45	655601600130	18 ~ 28	16	28	13	DCMT 0702..	TS 25	TORX T08	0.035
AS 20.45	655602000150	23 ~ 32	20	32	15				0.045
AS 25.45	655602500180	28 ~ 43	25	43	18				0.1
AS 32.45	655603200220	35 ~ 54	32	54	22				0.2
AS 40.45	655604000300	46 ~ 72	40	72	30	DCMT 11T3..	TS 4	TORX T15	0.5
AS 50.45	655605000380	56 ~ 95	50	95	38				1.1
AS 63.45	655606300460	75 ~ 125	63	125	46	DCMT 1504..	TS 5	TORX 25	2.3
AS 80.45	655608000580	95 ~ 165	80	165	58				5.2

120

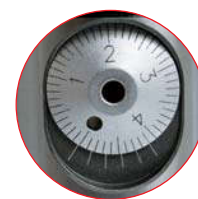


- 1 • Body
• Корпус
• Korpus
• Tělo
• Gövde
- 2 • Slide toolholder
• Салазки
• Sanie narzędziowe
• Nástrojový držák šoupátka
• Kayar takim tutucu
- 3 • Expanding radial pin
• Разжимной радиальный штифт
• Promieniowy sworzeń rozporowy
• Rozšiřující radiální kolík
• Radyal genişletme pimi
- 4 • Vernier scale
• Нониус
• Noniusz
• Měřtko Vernier
• Verniye skalası (taksimati)
- 5 • Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca sanie narzędziowe
• Uprínací šroub šoupátka
• Sürgülü sıkma vidası
- 6 • Coolant outlet
• Выход хладагента
• Wylot cieczy chłodzącej
• Výstup chladicí kapaliny
• Soğutma sıvısı çıkışı



- 7 • Tools clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Uprínací šrouby nástroje
• Takımlann sıkma vidaları
- 8 • Oiler
• Масленка
• Smarownica
• Olejnička
• Yağlayıcı
- 9 • Bit holder
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani

10 μm
nonio
vernier 2 μm



GB FEATURES. High precision work to IT6 tolerance, with excellent surface finish, is achieved using TRC boring heads. These are very sensitive and radial correction of 5 micron can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Головки TRC обеспечивают высокую точность обработки по классу точности IT6 с исключительной чистой поверхности. Они очень чувствительны и радиальная коррекция в 5 микрон может быть осуществлена прямо на станке и легко считана по шкале нониуса.

PL Głowice z serii TRC umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Dokładność ustawcza głowic wynosi 5 mikrometrów na promieniu. Wartość ta jest łatwa do odczytania bezpośrednio na noniuszu, co umożliwia dokonywanie regulacji bezpośrednio na obrabiarce.

CZ VLASTNOSTI. Pomocí vyvrtávacích hlav TRC se docílí vysoce přesné obrábění dle tolerance IT6 s vynikající finální úpravou povrchu. Jsou velmi citlivé a radiální korekci 5 mikronů lze provést přímo na stroji a snadno odečíst na měřtku vernier.

TR ÖZELLİKLER. TRC matkap başları kullanılarak IT6 toleransa kadar yüksek hassasiyetli çalışma ve mükemmel yüzey bitirme gerçekleştirilir. Bunlar son derece hassastırlar ve 5 mikron radyal düzeltme doğrudan makine üzerinde gerçekleştirilip verniye skalasında kolayca okunabilir.

TRC 14
Ø 14.5 ~ 18



TRC 16
Ø 18 ~ 24



TRC 20
Ø 22 ~ 30



TRC 25
Ø 28 ~ 40



TRC 32
Ø 35.5 ~ 53.5



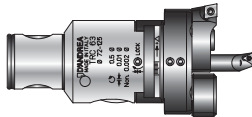
TRC 40
Ø 48 ~ 66



TRC 50
Ø 2.5 ~ 110

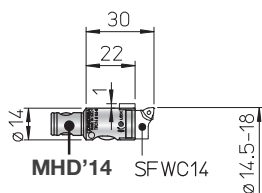
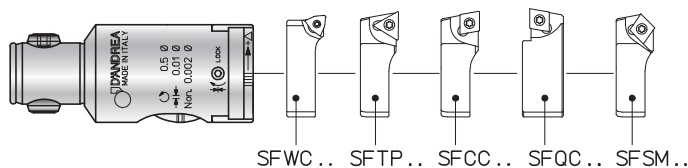


TRC 63
Ø 6 ~ 125

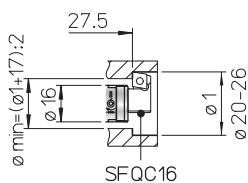
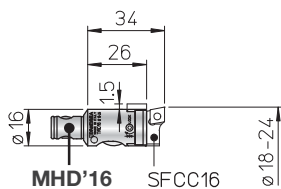


TRC 80
Ø 6 ~ 200

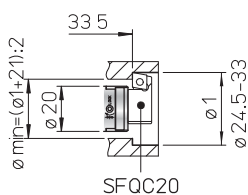
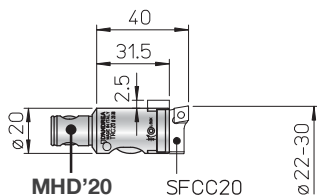




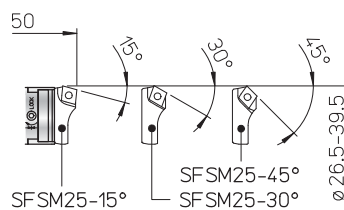
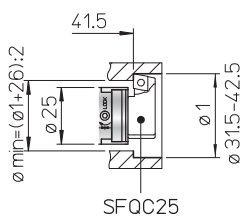
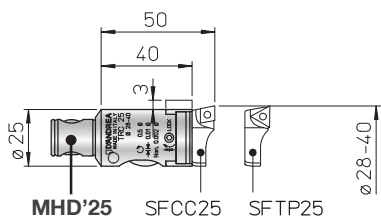
TRC 14
Ø 14.5 ~ 18



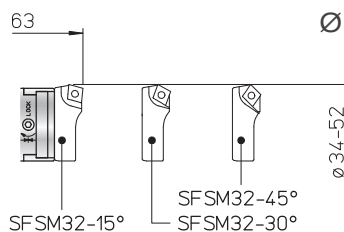
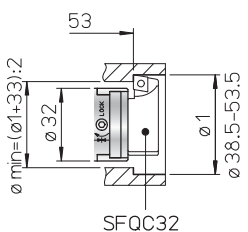
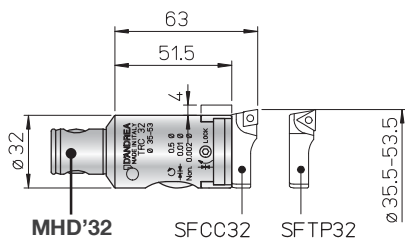
TRC 16
Ø 18 ~ 24



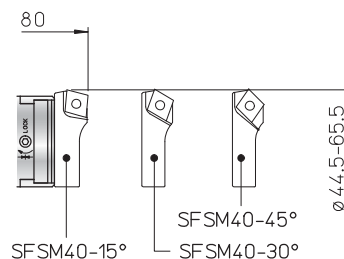
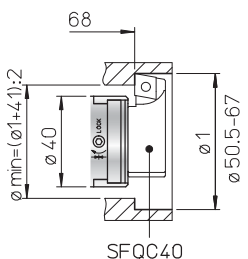
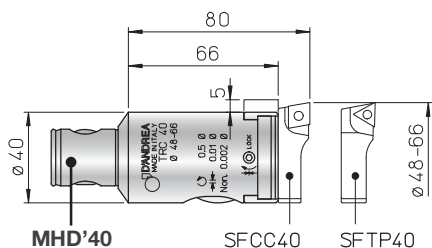
TRC 20
Ø 22 ~ 30



TRC 25
Ø 28 ~ 40



TRC 32
Ø 35.5 ~ 53.5



TRC 40
Ø 48 ~ 66



• TESTAROSSA

TRC

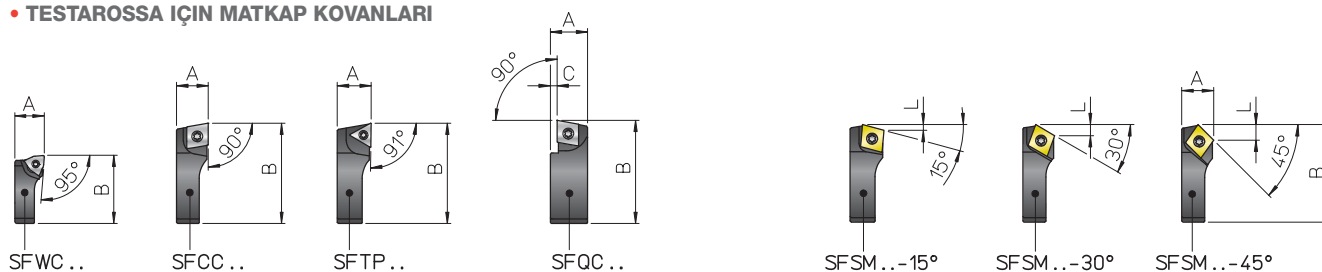


10 μ m
nonio
vernier 2 μ m

REF.	CODE	Kg.
TRC 14	455011400301	0.02
TRC 16	455011600341	0.05
TRC 20	455012000401	0.1
TRC 25	455012500501	0.2
TRC 32	455013200631	0.35
TRC 40	455014000801	0.7

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	L						Kg.
SFWC 14	470500514002	8	14	-	-	WCGT 0201..	-	-	TS 211	TORX T06	0.003
SFCC 16	470500516002	8	17	-	-	-	-	-	-	-	0.003
SFCC 20	470500520002	8.5	21	-	-	-	CCGT 0602..	-	TS 25	TORX T08	0.005
SFCC 25	470500525002	10	26.5	-	-	-	-	-	-	-	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	-	-	-	0.02
SFCC 40	470500540002	14	44	-	-	-	CCGT 09T3..	-	TS 4	TORX T15	0.04
SFTP 25	470500525001	10	26.5	-	-	-	-	TPGX 0902..	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-	-	-	-	0.02
SFTP 40	470500540001	14	44	-	-	-	-	TPGX 1103..	CS 300890T	-	0.04
SFQC 16	470500516062	10	18	2	-	-	-	-	-	TORX T08	0.005
SFQC 20	470500520062	10.5	22.5	2	-	-	-	-	-	-	0.008
SFQC 25	470500525062	12	28.5	2.5	-	-	CCMT 0602..	-	TS 25	TORX T08	0.01
SFQC 32	470500532062	13.5	35.5	2.5	-	-	-	-	-	-	0.03
SFQC 40	470500540062	16.5	46	3	-	-	CCMT 09T3..	-	TS 4	TORX T15	0.06
SFSM 25-15°	470500525011	10	25.5	-	1.6	-	-	-	-	-	0.01
SFSM 25-30°	470500525013	10	25.5	-	3	-	-	-	-	-	0.01
SFSM 25-45°	470500525015	10	25.5	-	4.3	-	-	-	-	-	0.01
SFSM 32-15°	470500532011	11.5	33.5	-	1.6	-	CCMT 0602..	-	TS 25	TORX T08	0.02
SFSM 32-30°	470500532013	11.5	33.5	-	3	-	-	-	-	-	0.02
SFSM 32-45°	470500532015	11.5	33.5	-	4.3	-	-	-	-	-	0.02
SFSM 40-15°	470500540011	14	42.5	-	2.4	-	-	-	-	-	0.03
SFSM 40-30°	470500540013	14	42.5	-	4.6	-	-	-	-	-	0.03
SFSM 40-45°	470500540015	14	42.5	-	6.5	-	CCMT 09T3..	-	TS 4	TORX T15	0.03

116

120

119



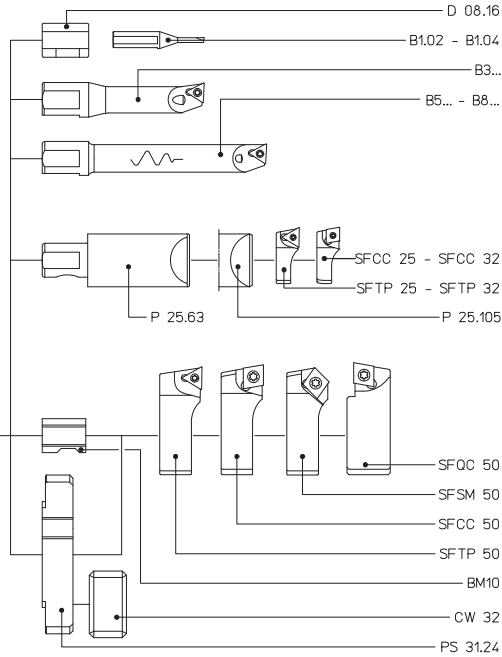
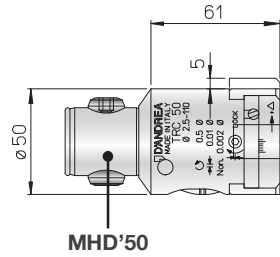
D'ANDREA MODULHARD'ANDREA

TRC 50 Ø 2.5 ~ 110

• TESTAROSSA



10 µm
nonio
vernier **2 µm**

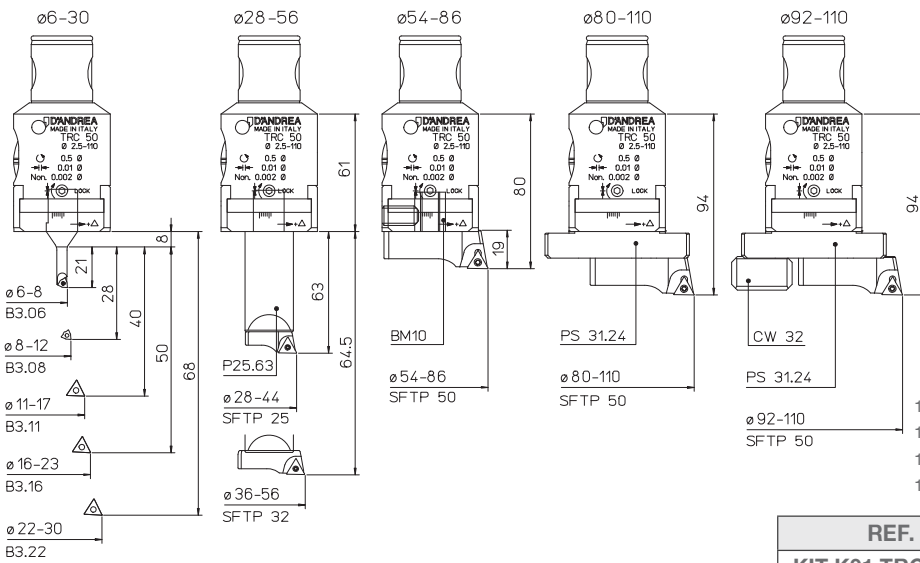


Ø 2.5 ~ 30

Ø 28 ~ 56

Ø 54 ~ 110

REF.	CODE	Kg.
TRC 50	455015000801	1

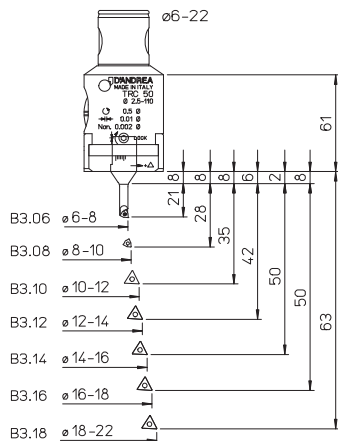


KIT K01
Ø 6 ~ 110



- 1 TRC 50
- 1 P25.63
- 1 BM10
- 1 PS 31.24
- 1 CW 32
- 1 B3.06
- 1 B3.22
- 1 SFTP25
- 1 SFTP32
- 1 B3.16
- 1 B3.11
- 1 SFTP50
- 5 TPGX 090202L DC100
- 1 TPGX 110302L DC100
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K01 TRC 50	655015010502	6 ~ 110



KIT K00
Ø 6 ~ 22



- 1 TRC50
- 1 B3.06
- 1 B3.08
- 1 B3.10
- 1 B3.12
- 1 B3.14
- 1 B3.16
- 1 B3.18
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K00 TRC 50	655015010500	6 ~ 22

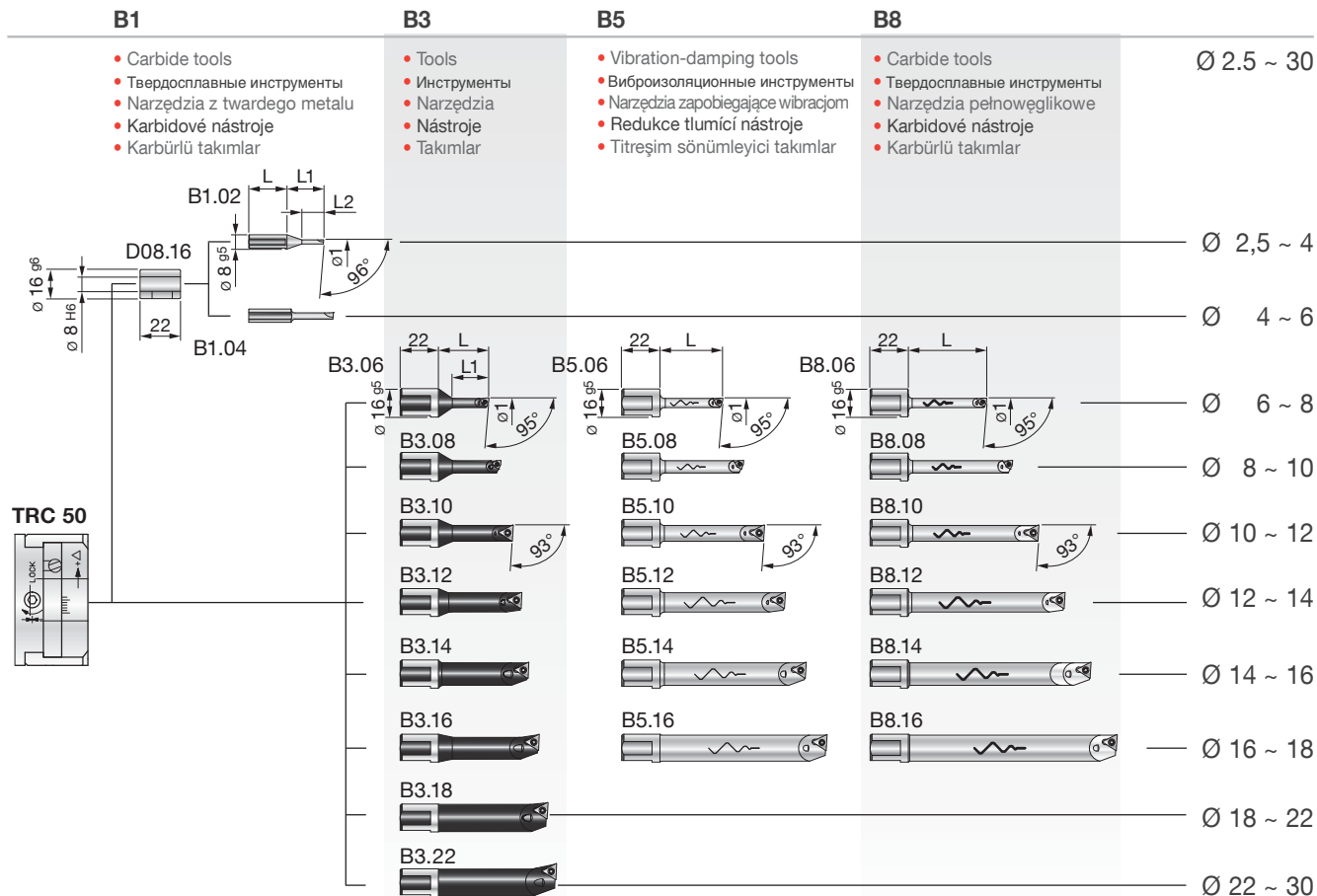
119 INFO

120

116

241





REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

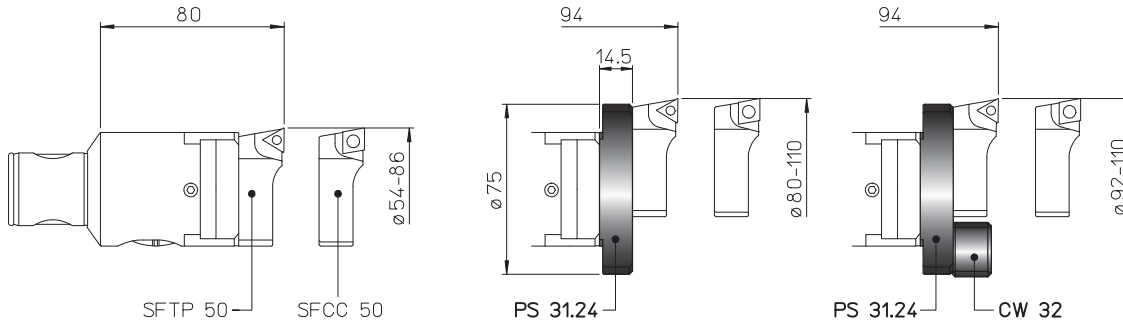
REF.	CODE	Ø1	L	L1	⊖	⊖	⊖	⊖	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-					0.1

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				TS 211		0.09
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96					0.3	

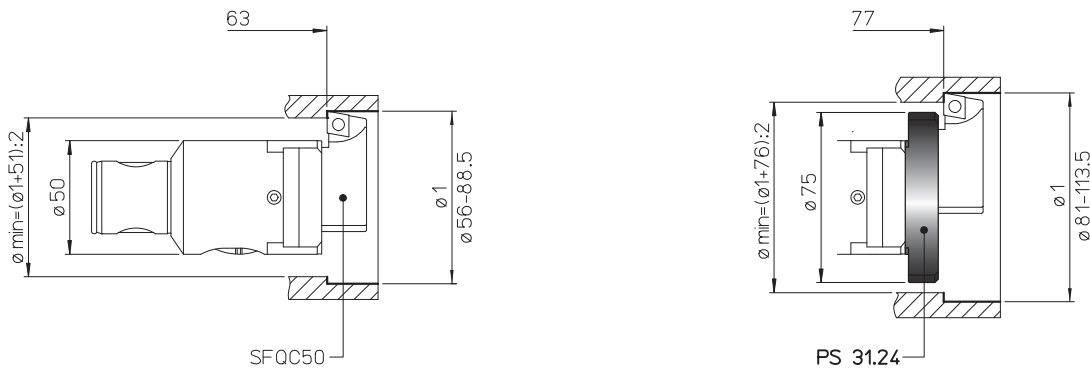
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				TS 211		0.08
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120					0.3	

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

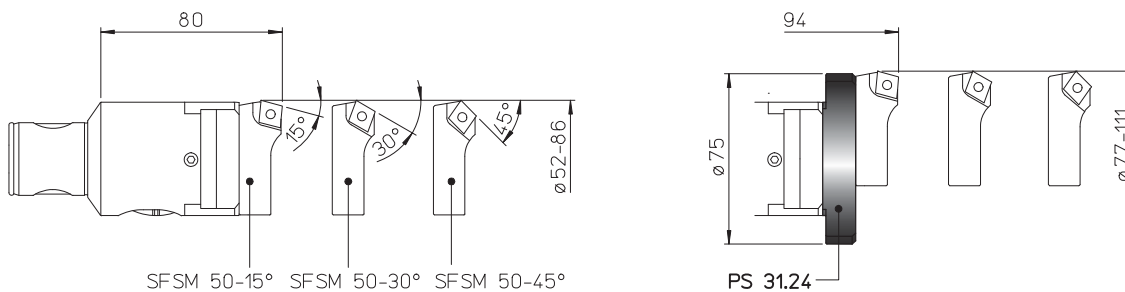
PS 31
CW 32
Ø 54 ~ 110



PS 31
Ø 56 ~ 113.5



PS 31
Ø 52 ~ 111



REF.	CODE	Kg.
PS 31.24 TR..50	433024140751	0.19
CW 32	392011003201	0.07

119

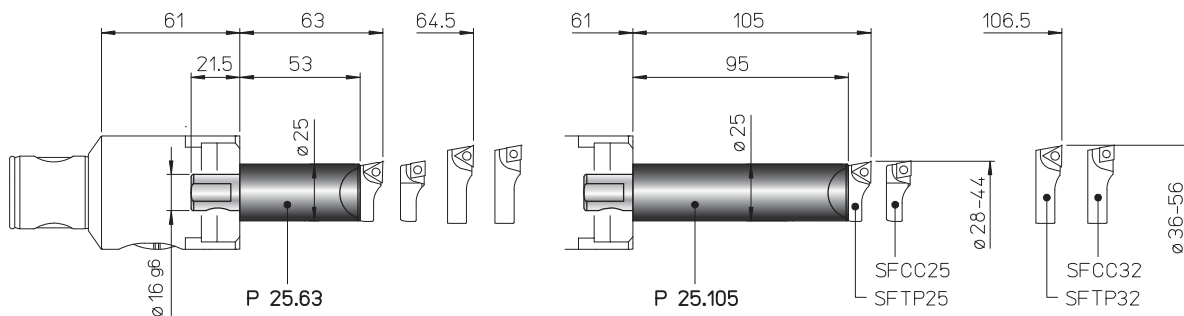


125



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

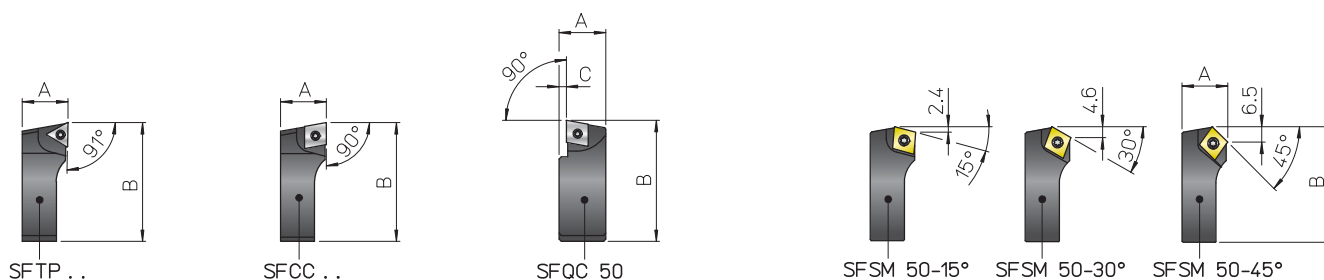
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF

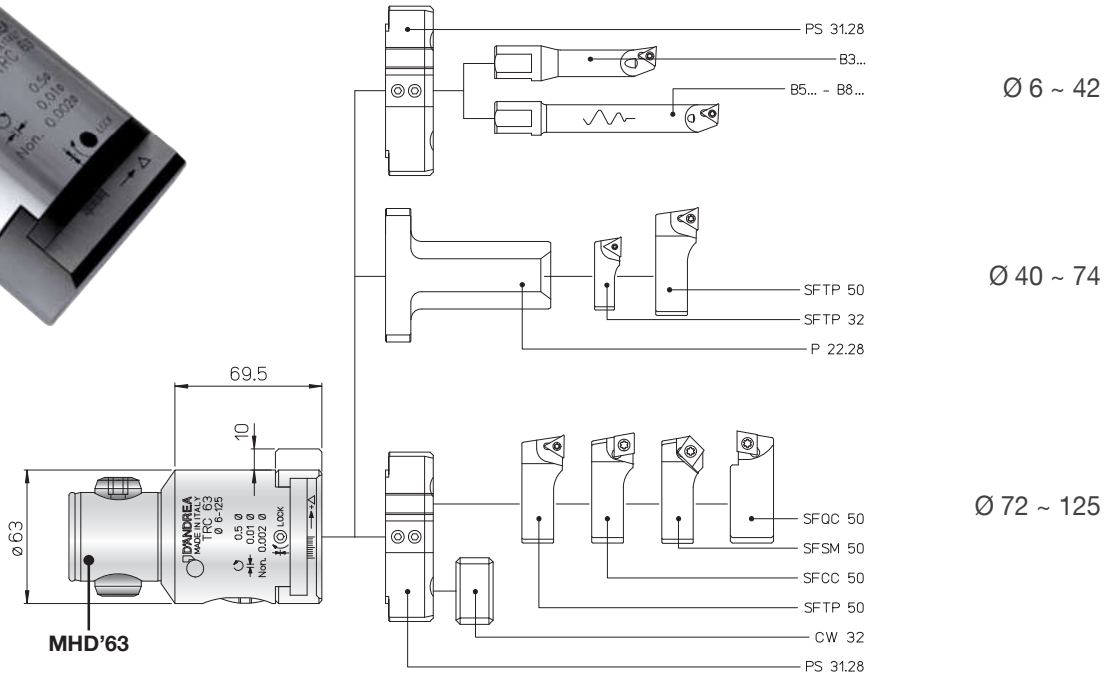


REF.	CODE	A	B	C	△	□	⌘	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	0.02		
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

D'ANDREA MODULHARD'ANDREA

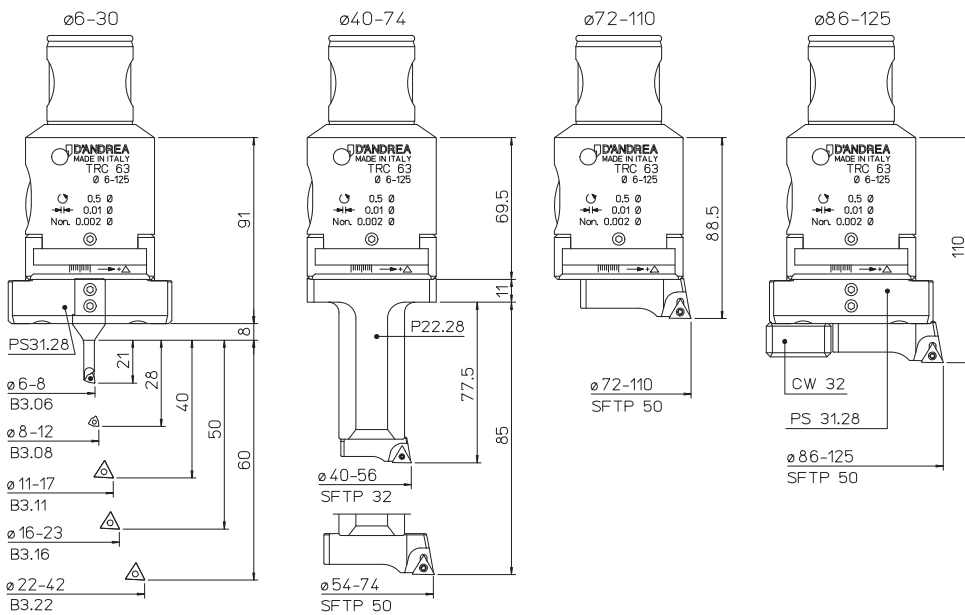


10 μm
nonio
vernier **2 μm**



REF.	CODE	Kg.
TRC 63	455016301001	2

KIT K01
Ø 6 ~ 125



- 1 TRC 63
- 1 PS31.28
- 1 CW 32
- 1 P22.28
- 1 B3.06
- 5 TPGX 090202L DC100
- 1 TPGX 110302L DC100
- 2 WCGT 020102L DC100
- 1 B3.08
- 1 B3.11
- 1 B3.16
- 1 B3.22
- 1 SFTP32
- 1 SFTP50

REF.	CODE	Ø
KIT K01 TRC 63	655016310632	6 ~ 125

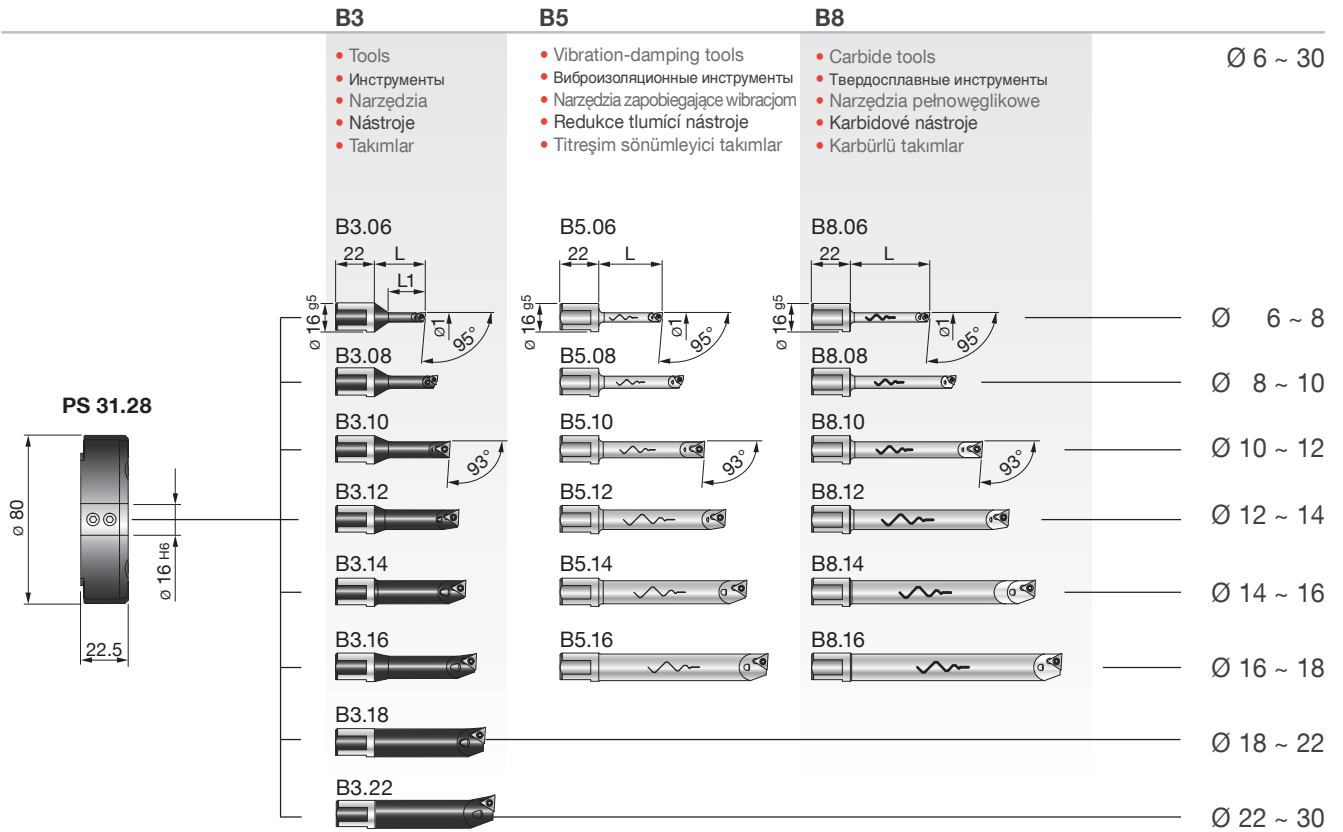
119 INFO

120

116

241





REF.	CODE	Kg.
PS 31.28 TRC 63	433028220801	0.3

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50	-	TPGX 0902..	CS 250 T	TORX T08	0.07
B3.16	572010516001	16 ~ 18	58	50					0.07
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-	-	-	-	-	0.1

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				TS 211		0.09
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96	-	-	-	-	-	0.3

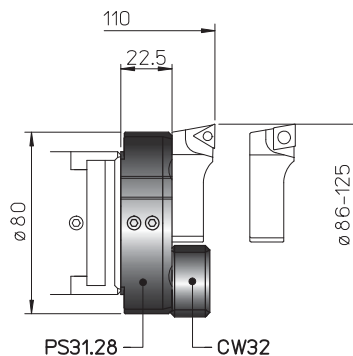
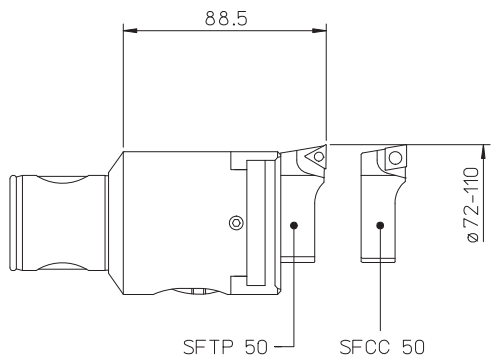
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				TS 211		0.08
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120	-	-	-	-	-	0.3



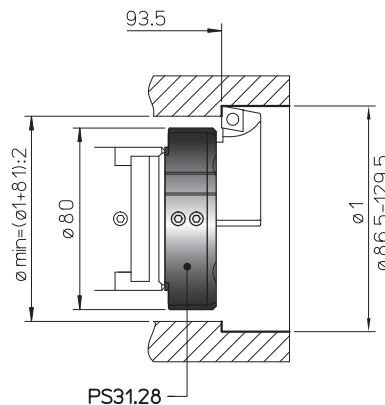
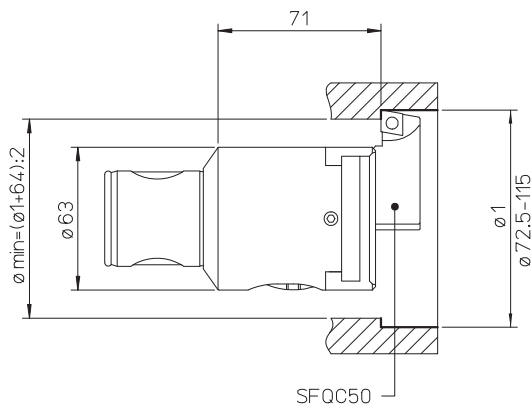
TRC 63 Ø 69 ~ 129.5

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

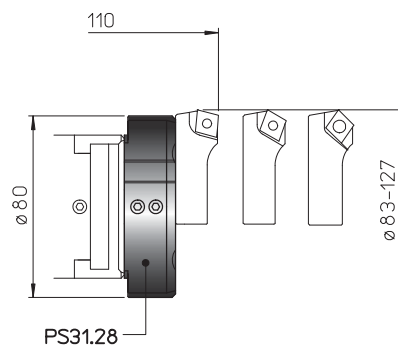
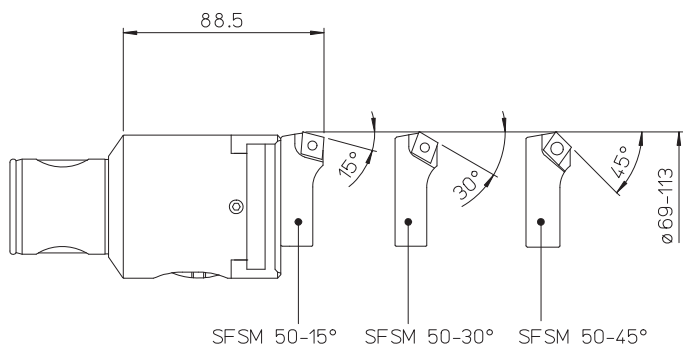
PS 31
CW 32
Ø 72~125



PS 31
Ø 72.5 ~ 129.5



PS 31
Ø 69 ~ 127

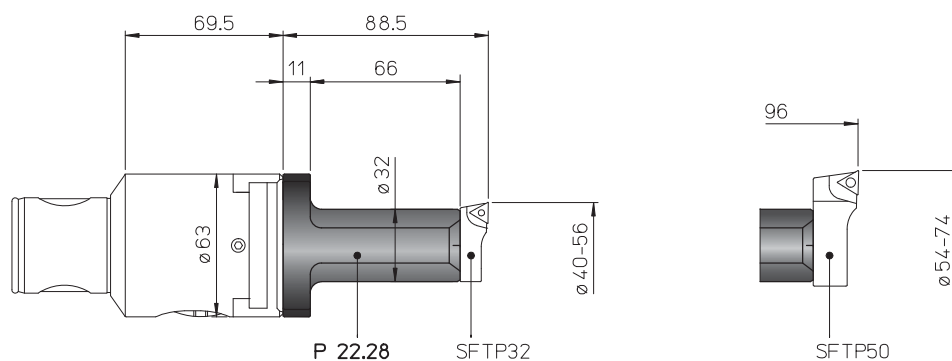


REF.	CODE	Kg.
PS 31.28 TRC 63	433028220801	0.3
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

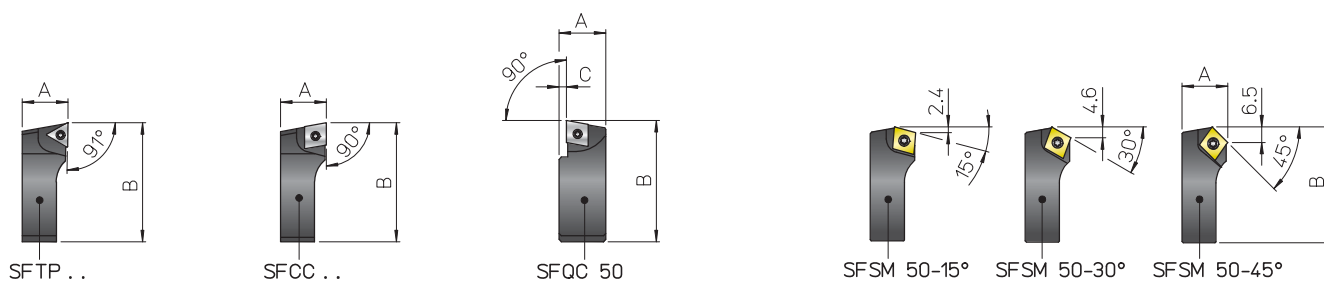
P 22
Ø 40 ~ 74



REF.	CODE	Ø
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	△	□	⊥	⌘	Kg.
SFTP 32	470500532001	11.5	34.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

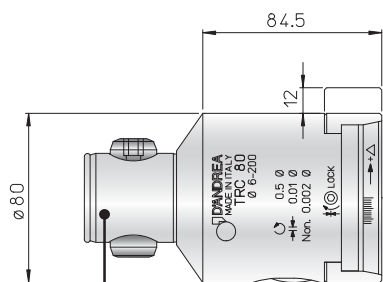
D'ANDREA MODULHARD'ANDREA

TRC 80 Ø 6 ~ 200

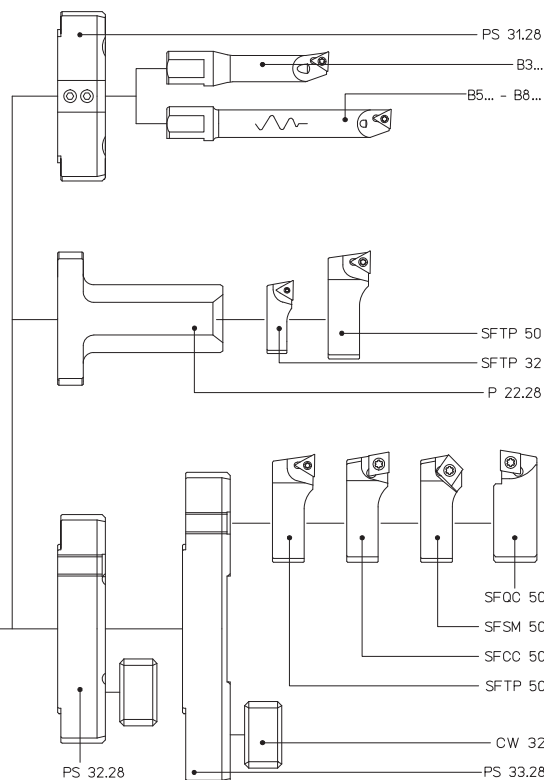
• TESTAROSSA

10 µm

nonio
vernier **2 µm**



MHD'80



Ø 6 ~ 42

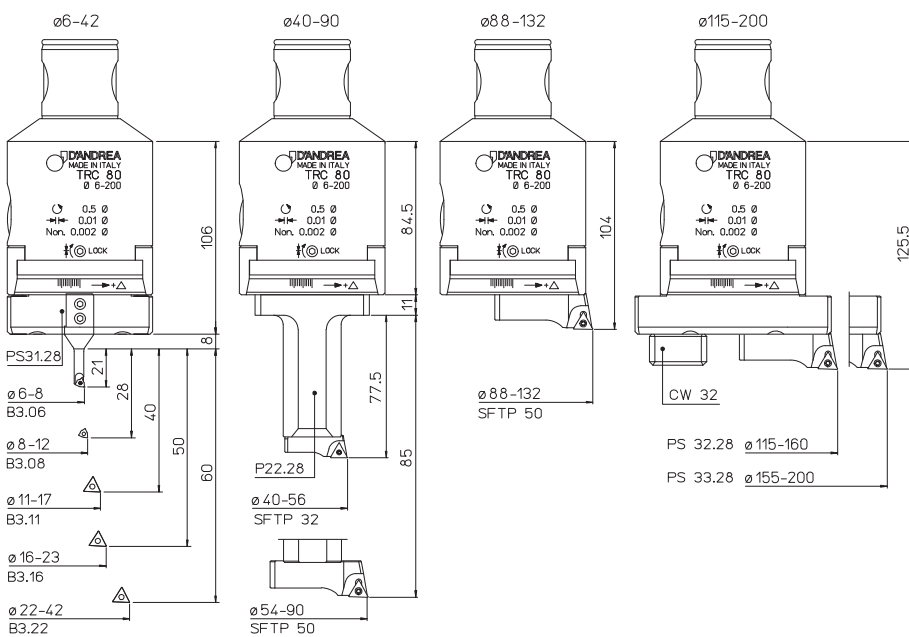
Ø 40 ~ 90

Ø 88 ~ 200

REF.	CODE	Kg.
TRC 80	455018001201	3.8

KIT K01

Ø 6 ~ 200



- 1 TRC 80
- 1 PS31.28
- 1 PS32.28
- 1 PS33.28
- 1 CW 32
- 1 P22.28
- 5 TPGX 090202L DC100
- 1 TPGX 110302L DC100
- 2 WCGT 020102L DC100
- 1 B3.06
- 1 B3.08
- 1 B3.11
- 1 B3.16
- 1 B3.22
- 1 SFTP32
- 1 SFTP50

REF.	CODE	Ø
KIT K01 TRC 80	655018010802	6 ~ 200

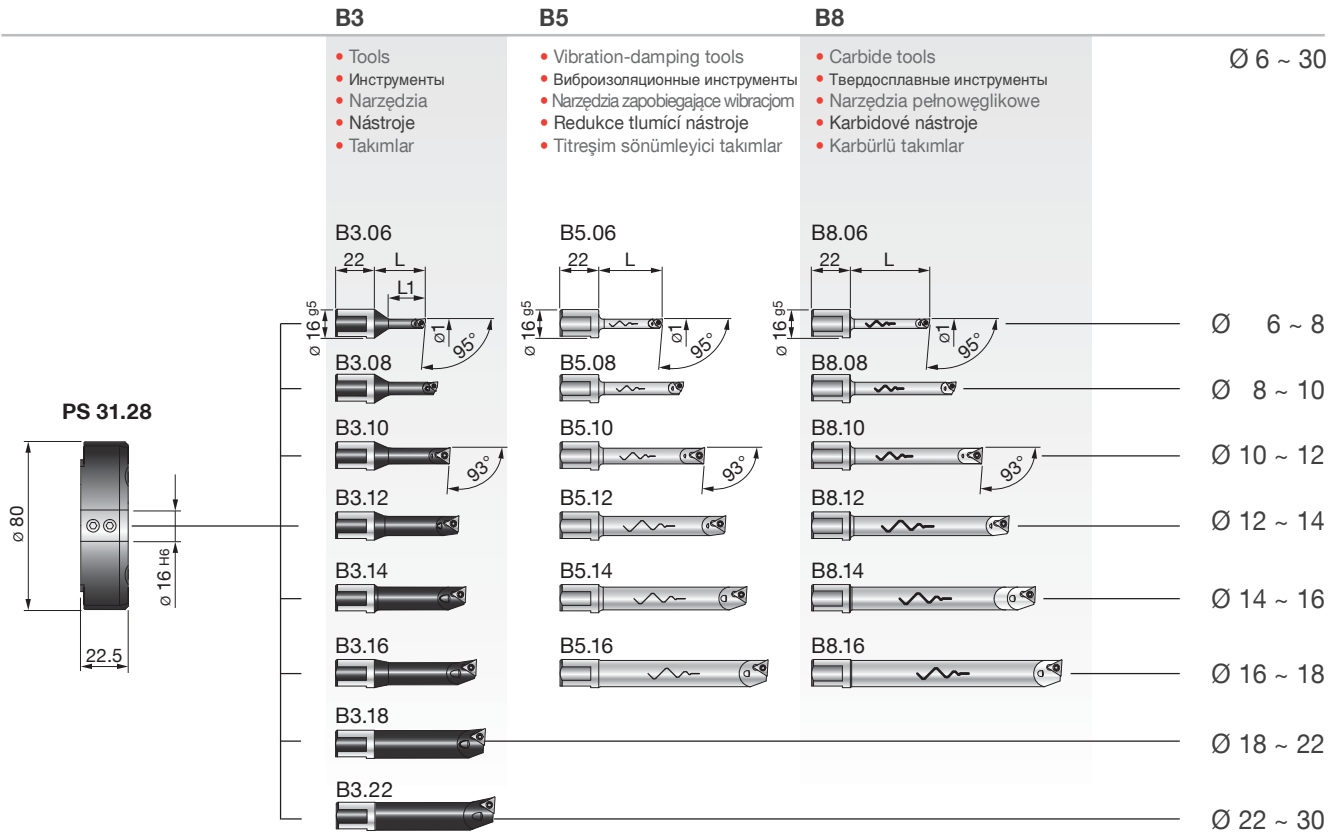
119 INFO

120 TOOLS

116 DIAL

241 DIGITAL





REF.	CODE	Kg.
PS 31.28 TRC 80	433028220801	0.3

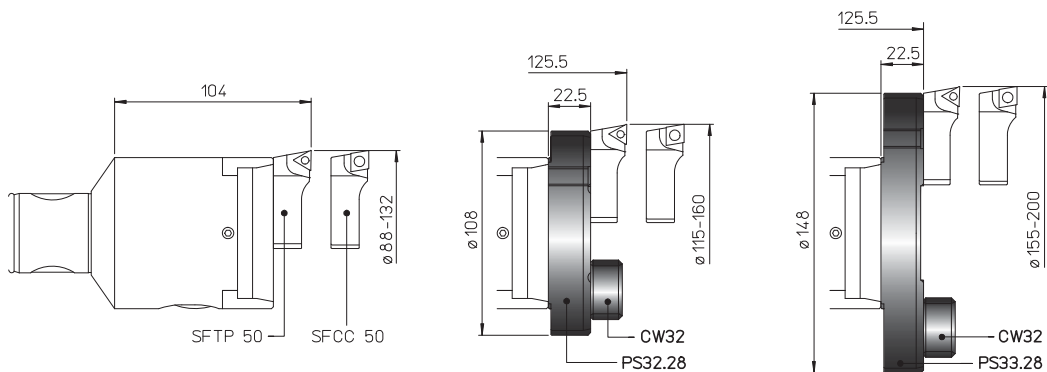
REF.	CODE	Ø1	L	L1	⚠	⚠	🔩	🔩	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	TPGX 0902..	CS 250 T	TORX T08	0.07
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-					0.1
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48	-			TS 211		0.09
B5.10	572010510105	10 ~ 12	60	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72	-					0.2
B5.14	572010514105	14 ~ 16	84	-					0.2
B5.16	572010516105	16 ~ 18	96	-					0.3
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60	-			TS 211		0.08
B8.10	572010510108	10 ~ 12	75	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90	-					0.2
B8.14	572010514108	14 ~ 16	105	-					0.2
B8.16	572010516108	16 ~ 18	120	-					0.3



TRC 80 Ø 85 ~ 202.5

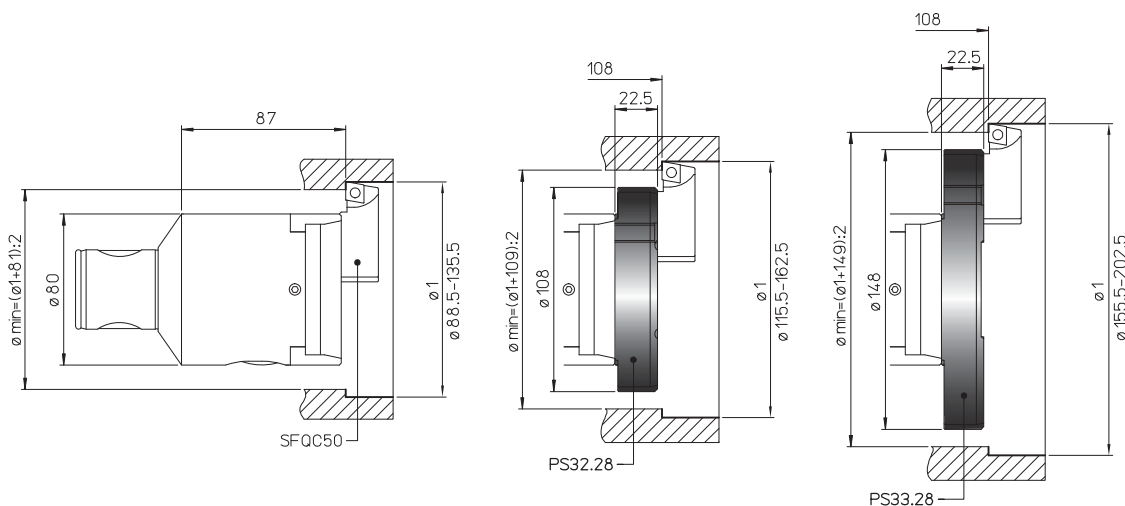
- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS
CW 32
Ø 88~ 200



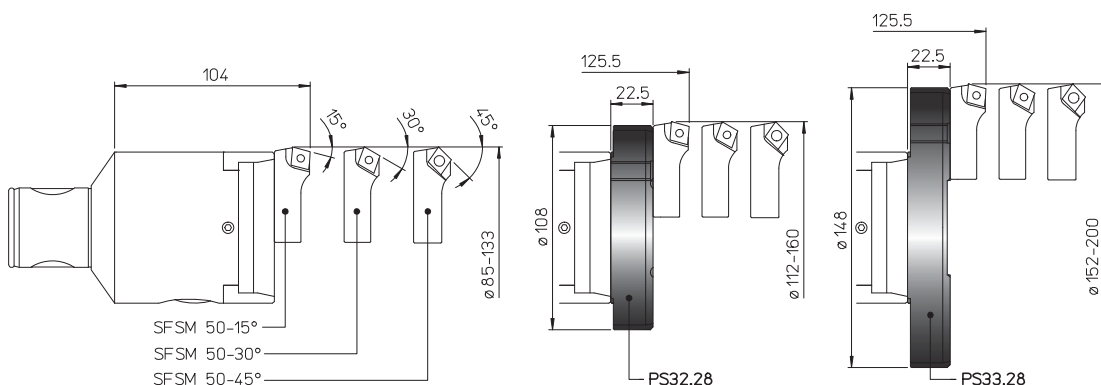
PS

Ø 88.5 ~ 202.5



PS

Ø 85 ~ 200

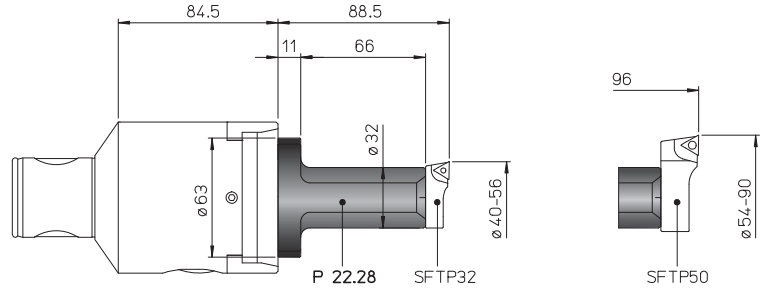


REF.	CODE	Kg.
PS 32.28 TRC 80	433028221081	0.5
PS 33.28 TRC 80	433028221481	0.6
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

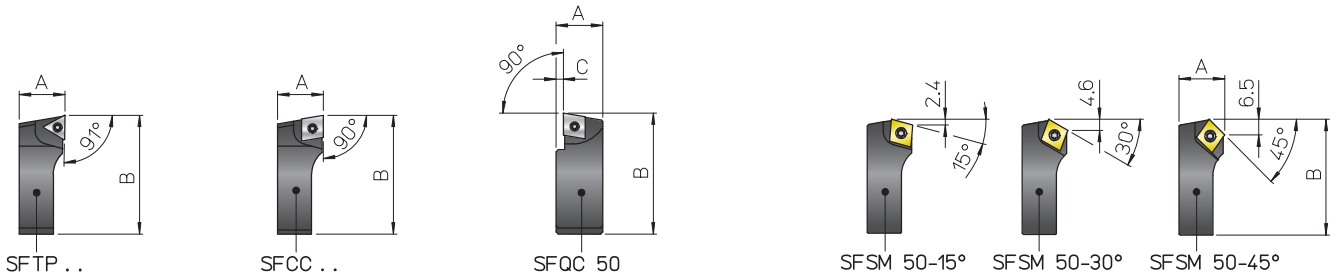
P 22
Ø 40 ~ 90



REF.	CODE	Kg.
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	△	□	⌋	⌋	Kg.
SFTP 32	470500532001	11.5	34.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SF5M 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SF5M 50-30°	470500550013								
SF5M 50-45°	470500550015								

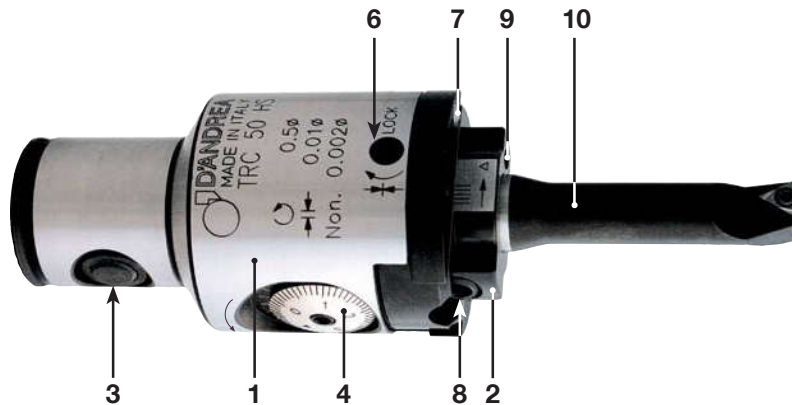
D'ANDREA

MODULHARD'ANDREA

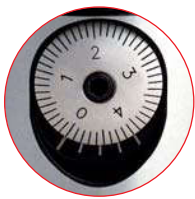
TRC HS

RPM MAX 12.000

Ø 2.5 ~ 22



10 µm
nonio
vernier **2 µm**



- 1 • Body
• Корпус
• Korpus
• Tělo
• Gövde
- 2 • Slide toolholder
• Салазки
• Sanie narzędziowe
• Nástrojový držák šoupatka
• Kayar takim tutucu
- 3 • Expanding radial pin
• Разжимной радиальный штифт
• Promieniowy sworzeń rozporowy
• Rozširujúci radiálny kolík
• Radyal genişletme pimi
- 4 • Vernier scale
• Нониус
• Noniusz
• Měřitko Vernier
• Verniye skalası (taksimati)
- 5 • Micrometric vernier scale
• Микрометрический нониус
• Noniusz mikrometryczny
• Mikrometrické měřitko vernier
• Mikrometrik verniye skalası

TRC 32 HS
Ø 2.5 ~ 18



TRC 50 HS
Ø 2.5 ~ 22



GB FEATURES. High precision work to IT6 tolerance, with excellent surface finish, is achieved using TRC HS boring heads. These are very sensitive and radial correction of 5 micron can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Головки TRC HS обеспечивают высокую точность обработки по классу точности IT6 с исключительной чистой поверхности. Они очень чувствительны и радиальная коррекция в 5 микрон может быть осуществлена прямо на станке и легко считана по шкале нониуса.

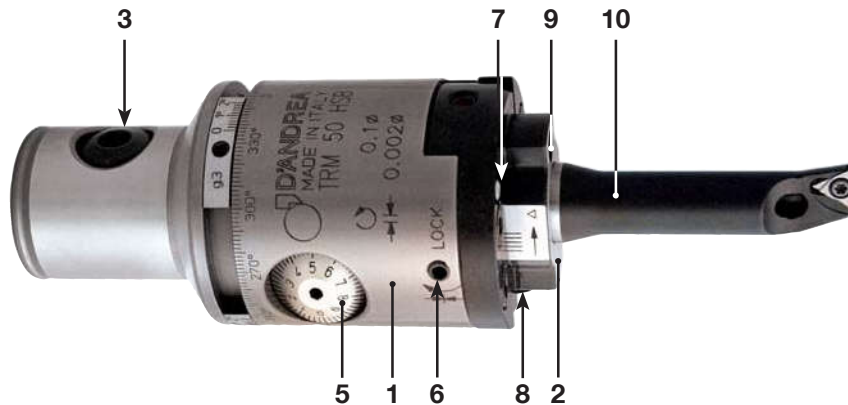
PL CECHY. Głowice z serii TRC HS umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Dokładność ustawcza głowic wynosi 5 mikrometrów na promieniu. Wartość ta jest łatwa do odczytania bezpośrednio na noniuszu, co umożliwia dokonywanie regulacji bezpośrednio na obrabiarce..

CZ VLASTNOSTI. Pomocí vyvrtávacích hlav TRC HS se docílí vysoce přesné obrábění dle tolerance IT6 s vynikající finální úpravou povrchu. Jsou velmi citlivé a radiální korekci 5 mikronů lze provést přímo na stroji a snadno odečíst na měřítku vernier.

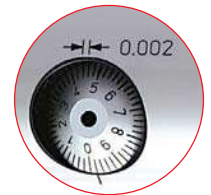
TR ÖZELLİKLER. TRC HS matkap başları kullanılarak IT6 toleransa kadar yüksek hassasiyetli çalışma ve mükemmel yüzey bitirme gerçekleştirilir. Bunlar son derece hassastırlar ve 5 mikron radyal düzeltme doğrudan makine üzerinde gerçekleştirilip verniye skalasında kolayca okunabilir.



TRM HSB
RPM MAX 20.000
Ø 2.5 ~ 22



2 μm

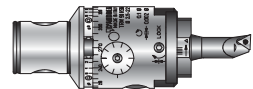


- 6**
- Slide clamp screw
 - Зажимные винты салазок
 - Śruba blokująca sanie narzędziowe
 - Upinací šroub šoupátka
 - Sürgülü sıkma vidası
- 7**
- Coolant outlet
 - Выход хладагента
 - Wylot cieczy chłodzącej
 - Wypust chładciej kapaliny
 - Soğutma sıvısı çıkışı
- 8**
- Tools clamp screws
 - Зажимные винты инструмента
 - Śruba blokująca narzędzie
 - Upinací šrouby nástroje
 - Takımların sıkma vidaları
- 9**
- Oiler
 - Масленка
 - Smarownica
 - Olejniczka
 - Yağlayıcı
- 10**
- Tool
 - Инструмент
 - Wytaczak
 - Nástroj
 - Takım

TRM 32 HSB
Ø 2.5 ~ 18



TRM 50 HSB
Ø 2.5 ~ 22



GB FEATURES. High precision work to IT6 tolerance, with excellent surface finish, is achieved using TRM HSB boring heads. These are very sensitive and radial correction of 1 micron can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Головки TRM HSB обеспечивают высокую точность обработки по классу точности IT6 с исключительной чистотой поверхности. Они очень чувствительны и радиальная коррекция в 1 микрон может быть осуществлена прямо на станке и легко считана по шкале нониуса.

PL CECHY. Głowice z serii TRC HSB umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Dokładność ustawcza głowic wynosi 1 mikrometr na promieniu. Wartość ta jest łatwa do odczytania bezpośrednio na noniuszu, co umożliwia dokonywanie regulacji bezpośrednio na obrabiarce.

CZ VLASTNOSTI. Pomocí vyvrtávacích hlav TRM HSB se docílí vysoce přesné obrábění dle tolerance IT6 s vynikající finální úpravou povrchu. Jsou velmi citlivé a radiální korekci 1 mikron lze provést přímo na stroji a snadno odečíst na měřítku vernier.

TR ÖZELLİKLER. TRM HSB matkap başları kullanılarak IT6 toleransa kadar yüksek hassasiyetli çalışma ve mükemmel yüzey bitirme gerçekleştirilir. Bunlar son derece hassastır ve 1 mikron radyal düzeltme doğrudan makine üzerinde gerçekleştirilip verniye skalasında kolayca okunabilir.



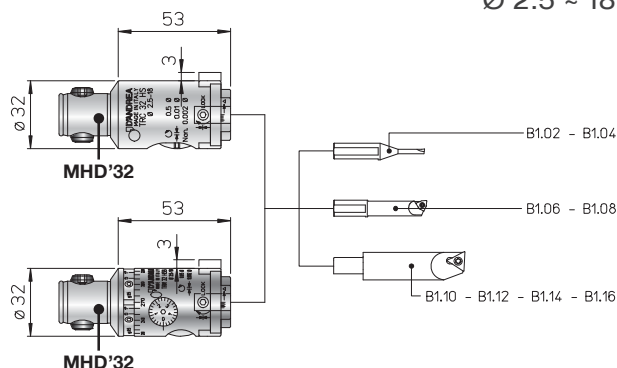
10 µm
 nonio
 vernier **2 µm**

TRC 32 HS
 Ø 2.5 ~ 18
 RPM MAX 12.000



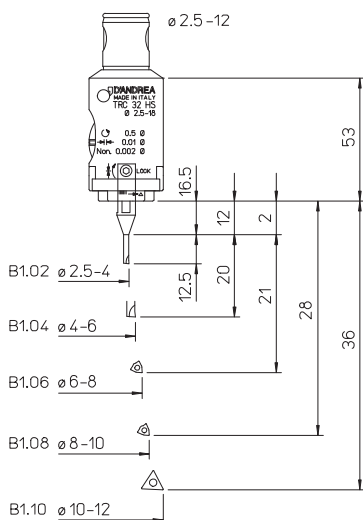
2 µm

TRM 32 HSB
 Ø 2.5 ~ 18
 RPM MAX 20.000



TRC 32 HS
TRM 32 HSB
 Ø 2.5 ~ 18

REF.	CODE	Kg.
TRC 32 HS	455033200531	0.35
TRM 32 HSB	455103200531	

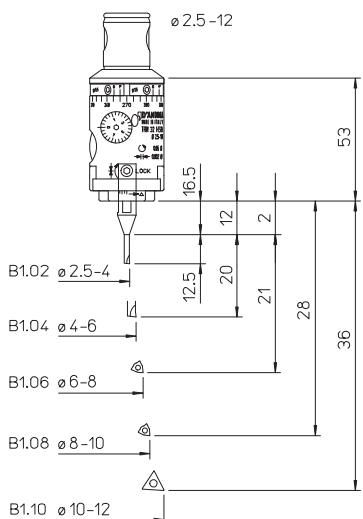


KIT K01
TRC 32 HS
 Ø 2.5 ~ 12



- 1 TRC32HS
- 1 B1.02
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100
- 1 B1.04
- 1 B1.06
- 1 B1.08
- 1 B1.10

REF.	CODE	Ø
KIT K01 TRC 32 HS	655033230322	2.5 ~ 12



KIT K01
TRM 32 HSB
 Ø 2.5 ~ 12



- 1 TRM32HSB
- 1 B1.02
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100
- 1 B1.04
- 1 B1.06
- 1 B1.08
- 1 B1.10

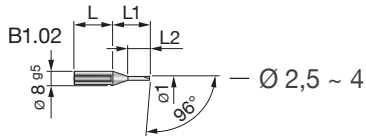
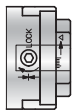
REF.	CODE	Ø
KIT K01 TRM 32 HSB	655003230321	2.5 ~ 12



B1

- Carbide tools
- Твердосплавные инструменты
- Narzędzia z twardego metalu
- Karbidové nástroje
- Karbürtlü takimlar

TRC32HS
TRM32HSB



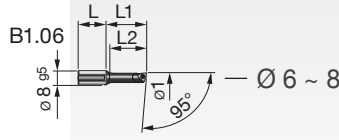
B1.02 — Ø 2,5 ~ 4

B1.04 — Ø 4 ~ 6

B1

- Tools
- Инструменты
- Narzędzia
- Nástroje
- Takimlar

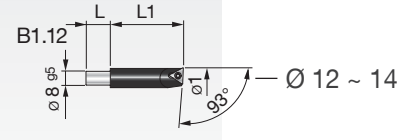
Ø 2.5 ~ 22



B1.06 — Ø 6 ~ 8

B1.08 — Ø 8 ~ 10

B1.10 — Ø 10 ~ 12



B1.12 — Ø 12 ~ 14

B1.14 — Ø 14 ~ 16

B1.16 — Ø 16 ~ 18

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	L2	⊙	⊙	⊙	⊙	Kg.	
B1.06	572010506000	6 ~ 8	16	23	21	WCGT 0201..	-	TS 21	TORX T06	0.01	
B1.08	572010508000	8 ~ 10		28						TS 211	0.015
B1.10	572010510000	10 ~ 12		36							0.02
B1.12	572010512000	12 ~ 14	14	42	-	-	TPGX 0902..	CS 250 T	TORX T08	0.03	
B1.14	572010514000	14 ~ 16		48							0.04
B1.16	572010516000	16 ~ 18		54							0.05





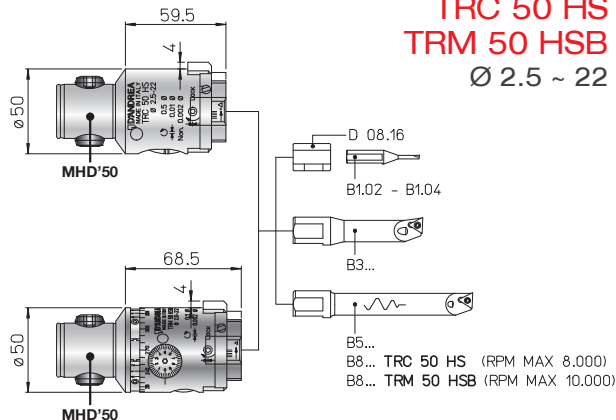
10 μm
nonio
vernier **2 μm**

TRC 50 HS
 $\varnothing 2.5 \sim 22$
RPM MAX 12.000

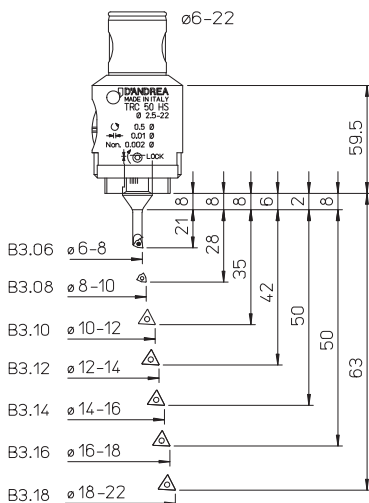


2 μm

TRM 50 HSB
 $\varnothing 2.5 \sim 22$
RPM MAX 20.000



REF.	CODE	Kg.
TRC 50 HS	455035000601	1
TRM 50 HSB	455105000701	1.4

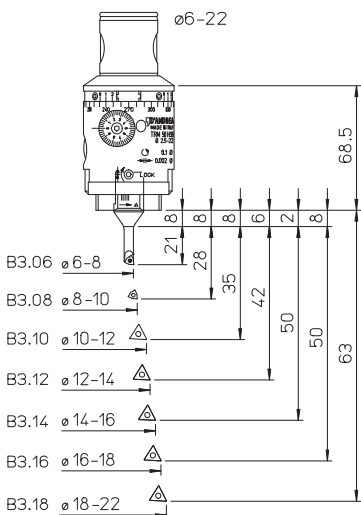


KIT K01
TRC 50 HS
 $\varnothing 6 \sim 22$



- 1 TRC50HS
- 1 B3.06
- 1 B3.08
- 1 B3.10
- 1 B3.12
- 1 B3.14
- 1 B3.16
- 1 B3.18
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100

REF.	CODE	\varnothing
KIT K01 TRC 50 HS	655035030502	6 ~ 22



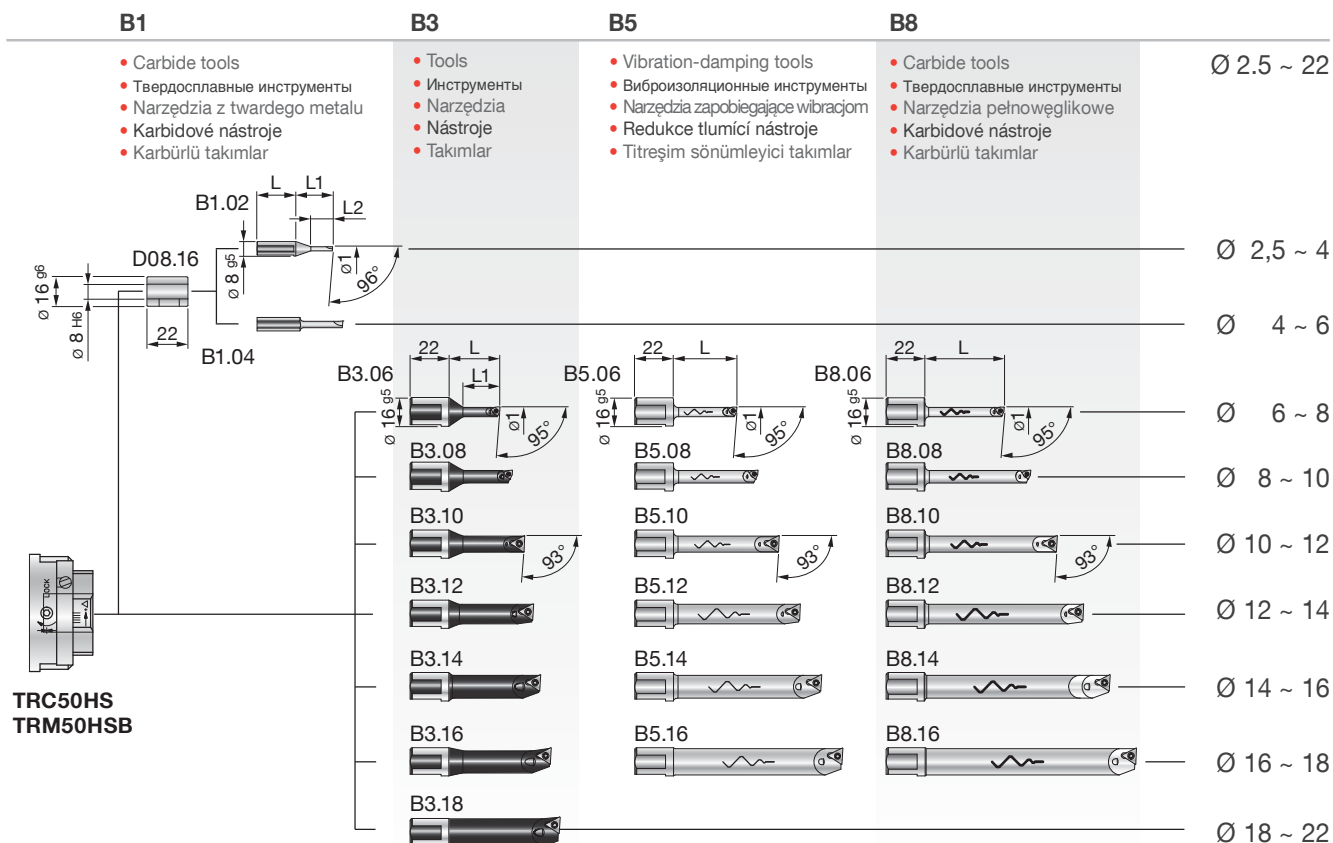
KIT K01
TRM 50 HSB
 $\varnothing 6 \sim 22$



- 1 TRM50HSB
- 1 B3.06
- 1 B3.08
- 1 B3.10
- 1 B3.12
- 1 B3.14
- 1 B3.16
- 1 B3.18
- 5 TPGX 090202L DC100
- 2 WCGT 020102L DC100

REF.	CODE	\varnothing
KIT K01 TRM 50 HSB	655005030501	6 ~ 22





REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⊖	⚠	🔧	🔩	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28					TS 211
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-					0.1
B3.18	572010518001	18 ~ 22	63	-					0.1

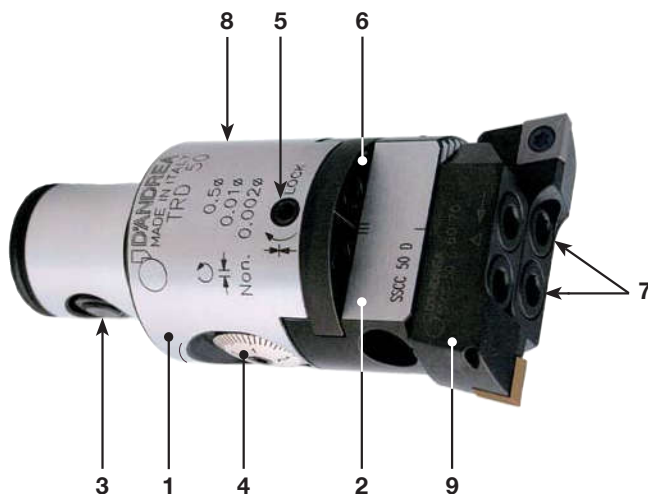
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						TS 211
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96						

B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						TS 211
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120						



- DOUBLE-BIT TESTAROSSA
- ДВУХРЕЗЦОВАЯ ГОЛОВКА TESTAROSSA
- GŁOWICA TESTAROSSA DWUNOŻOWA
- DVOUHROTOVÁ TESTAROSSA
- ÇİFT UÇLU TESTAROSSA

- Body
• Корпус
• Korpus
• Tělo
• Gövde
- Slide toolholder
• Салазки
• Śanie narzędziowe
• Šoupátko nástrojového držáku
• Kayar takim tutucu
- Expanding radial pin
• Разжимной радиальный штифт
• Promieniowy sworzeń rozporowy
• Rozširující radiální kolík
• Radyal genişletme pimi
- Vernier scale
• Нониус
• Noniusz
• Měřitko vernier
• Verniye skalası (taksimati)
- Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca śanie narzędziowe
• Upinací šroub šoupátka
• Sürgülü sıkma vidası
- Coolant outlet
• Выход хладагента
• Wylot cieczy chłodzącej
• Výstupní tryska chladicí kapaliny
• Soğutma sıvısı çıkışı



- Tools clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Upinací šrouby nástroje
• Takımların sıkma vidaları
- Oiler
• Масленка
• Smarownica
• Olejnička
• Yağlayıcı
- Bit holder
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani

Dom. Brev. Dep.
Patent Pending

10 µm
nonio
vernier **2 µm**



GB The main advantage of the TRD head is that it can be pre-regulated independently of the bit holders found on the slide. This allows both roughing and high precision finish work at the same time.

RU Основным преимуществом головок TRD является независимая предварительная регулировка кассет, установленных на салазках, которая позволяет осуществлять черновые и чистовые операции.

PL Główną zaletą głowic TRD jest możliwość niezależnej regulacji wytaczadeł znajdujących się na saniach. Umożliwia to wykonywanie operacji wytaczania zgrubnego i wykończeniowego w tym samym czasie.

CZ Hlavní výhodou hlavy TRD je, že ji lze předem regulovat nezávisle na hrotových držácích na šoupátku. To umožňuje jak hrubování tak vysoce přesné finální opracování současně.

TR TRD kafanın en büyük avantajı, sürgü üzerinde bulunan kovanlardan bağımsız olarak ön ayara tabi tutulabilmesidir. Bu sayede, kaba işleme ve ince işleme çalışmaları aynı anda yapılabilir.

GB FEATURES. The double-bit TRD heads allow both roughing and high precision finish thanks to their rigidity and the sensitivity of the sliding mechanism which can achieve radial correction of 5 microm. This can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Двухрезцовые головки TRD позволяют осуществлять комбинированные операции высокой точности, как черновые, так и чистовые, благодаря жесткости и чувствительности механизма салазок, который позволяет достигать радиальной коррекции в 5 микрон. Корректировка может быть осуществлена прямо на станке и считана по шкале нониуса.

PL CECHY. Głowice dwunożowe TRD umożliwiają jednoczesne wytaczanie zgrubne i wykończeniowe dzięki wysokiej sztywności i dokładności mechanizmu mikrometrycznego. Dokładność ustawcza wynosi 5 mikrometrów na promieniu. Wartość ta jest możliwa do odczytania bezpośrednio na obrabiarce dzięki czytelnej skali znajdującej się na głowicy.

CZ VLASTNOSTI. Dvouhrotové hlavy TRD umožňují jak hrubování tak vysoce přesné finální opracování díky pevnosti a citlivosti šoupátkového mechanismu, který může dosáhnout radiální korekce 5 mikrometrů. To lze provést přímo na stroji a snadno odečíst měřítkem vernier.

TR ÖZELLİKLER. Çift uçlu TRD kafaları, sağlamlıkları ve 5 mikron radyal düzeltme yapılabilen kayar mekanizmaları sayesinde hem kaba işleme hem de yüksek hassasiyetli ince işleme işlerinin yapılabilmesini sağlar. Bu doğrudan makine üzerinde gerçekleştirilebilir ve verniyeye skalasında kolayca okunabilir.

TRD 25
Ø 28 ~ 36



TRD 32
Ø 36 ~ 46



TRD 40
Ø 46 ~ 60



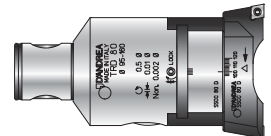
TRD 50
Ø 60 ~ 75



TRD 63
Ø 75 ~ 95



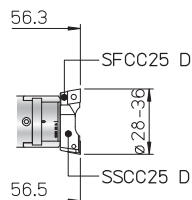
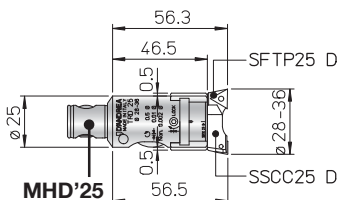
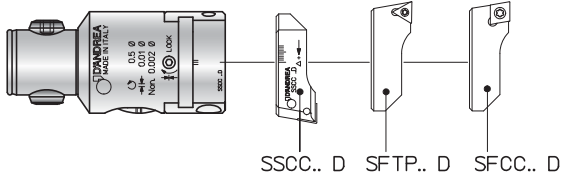
TRD 80
Ø 95 ~ 160



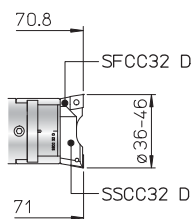
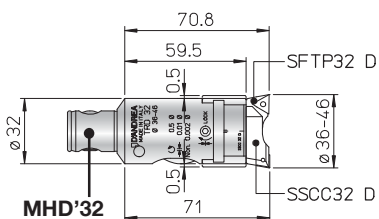
D'ANDREA MODULHARD'ANDREA

TRD 25~80 Ø 28 ~ 160

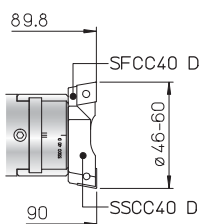
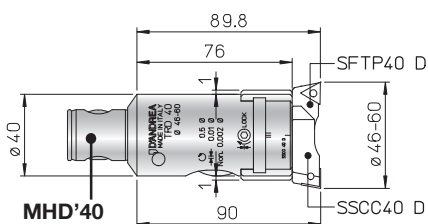
- DOUBLE-BIT TESTAROSSA
- ДВУХРЕЗЦОВАЯ ГОЛОВКА TESTAROSSA
- GŁOWICA TESTAROSSA DWUNOŻOWA
- DVOUHROTOVÁ TESTAROSSA
- ÇİFT UÇLU TESTAROSSA



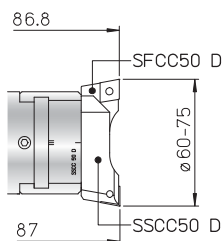
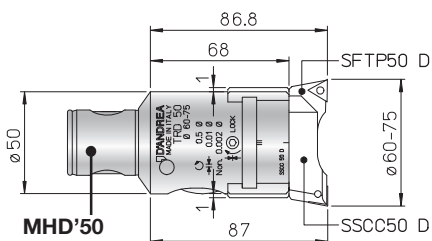
TRD 25
Ø 28 ~ 36



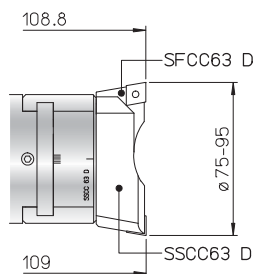
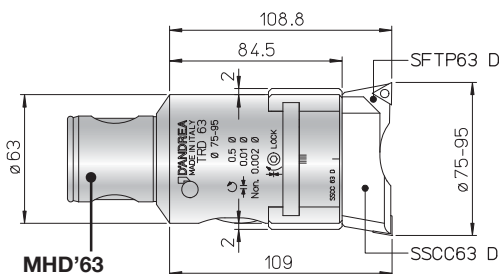
TRD 32
Ø 36 ~ 46



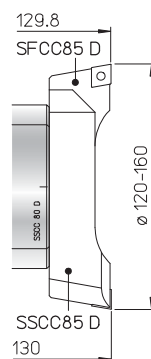
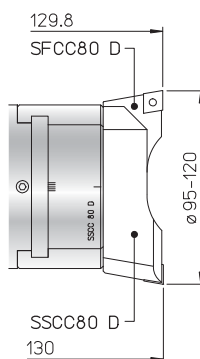
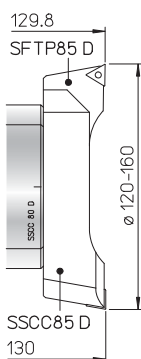
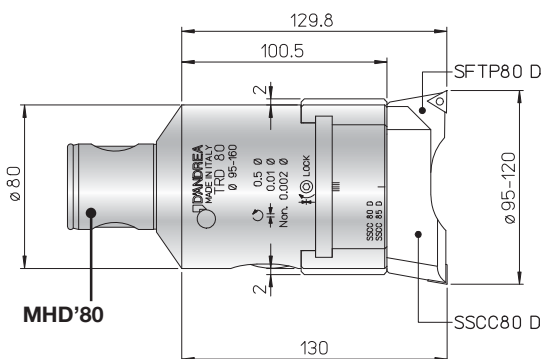
TRD 40
Ø 46 ~ 60



TRD 50
Ø 60 ~ 75



TRD 63
Ø 75 ~ 95



TRD 80
Ø 95 ~ 160



- DOUBLE-BIT TESTAROSSA
- ДВУХРЕЗЦОВАЯ ГОЛОВКА TESTAROSSA
- GŁOWICA TESTAROSSA DWUNOŻOWA
- DVOUHROTOVÁ TESTAROSSA
- ÇİFT UÇLU TESTAROSSA

TRD



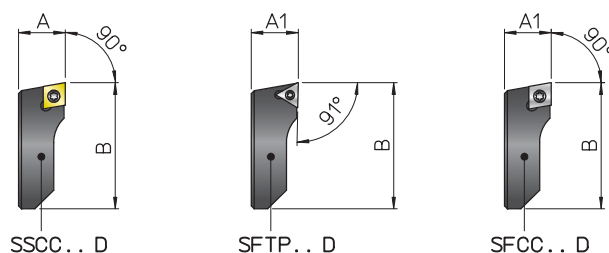
10 µm

nonio
vernier 2 µm

REF.	CODE	Kg.
TRD 25	455022500571	0.2
TRD 32	455023200711	0.35
TRD 40	455024000901	0.7
TRD 50	455025000861	1.5
TRD 63	455026301081	2.7
TRD 80	455028001291	4.8

- BIT-HOLDERS FOR DOUBLE-BIT TESTAROSSA
- КАССЕТЫ ДЛЯ ДВУХРЕЗЦОВОЙ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA DWUNOŻOWYCH
- HROTOVÉ DRŽÁKY PRO DVOUHROTOVOU TESTAROSSA
- ÇİFT UÇLU TESTAROSSA İÇİN MATKAP KOVANLARI

SS-SF



REF.	CODE	A	A1	B					Kg.
SSCC 25 D	470500525220	10	-	24	-	CCMT 0602..	TS 25	TORX T08	0.008
SSCC 32 D	470500532220	11.5	-	30	-				0.015
SSCC 40 D	470500540220	14	-	40	-				0.03
SSCC 50 D	470500550220	19	-	54	-				0.06
SSCC 63 D	470500563220	24.5	-	68	-	CCMT 09T3..	TS 4	TORX T15	0.15
SSCC 80 D	470500580220	29.5	-	87	-				0.3
SSCC 85 D	470500585221	29.5	-	107.4	-				0.4
SFTP 25 D	470500525030	-	9.8	24	TPGX 0902..	-	CS 250T		0.008
SFTP 32 D	470500532030	-	11.3	30					0.015
SFTP 40 D	470500540030	-	13.8	40				TORX T08	0.03
SFTP 50 D	470500550030	-	18.8	54					0.06
SFTP 63 D	470500563030	-	24.3	68	TPGX 1103..	-	CS 300890T		0.15
SFTP 80 D	470500580030	-	29.3	87					0.3
SFTP 85 D	470500585031	-	29.3	107.4					0.4
SFCC 25 D	470500525020	-	9.8	24	-	CCGT 0602..	TS 25	TORX T08	0.008
SFCC 32 D	470500532020	-	11.3	30	-				0.015
SFCC 40 D	470500540020	-	13.8	40	-				0.03
SFCC 50 D	470500550020	-	18.8	54	-				0.06
SFCC 63 D	470500563020	-	24.3	68	-	CCGT 09T3..	TS 4	TORX T15	0.15
SFCC 80 D	470500580020	-	29.3	87	-				0.3
SFCC 85 D	470500585021	-	29.3	107.4	-				0.4

116

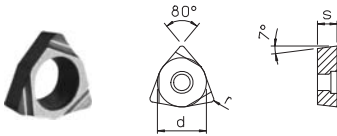
120

118



- INSERTS
- BCTABKI
- KOŃCÓWKI
- VLOŽKY
- EK PARÇALAR

WCGT ○○○○○○L

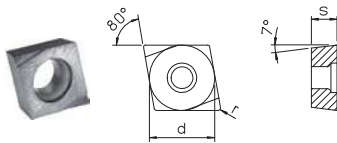


REF.	d	s	r	T	S	CARBIDE		CERMET	COATED CERMET
						DP300	DK100	DC100	DC100T
WCGT 020102 L	3.97	1.59	0.2	TS 21*-TS 211*	TORX T06	•	•	•	•
WCGT 020104 L			0.4			•	•	•	•

* TS21 : B...06

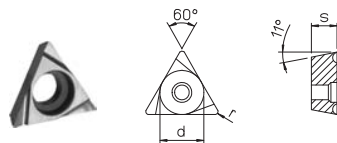
* TS211 : B...08

CCGT ○○○○○○L



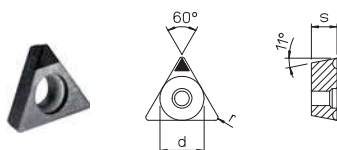
REF.	d	s	r	T	S	CARBIDE		CERMET	COATED CERMET
						DP300	DK100	DC100	DC100T
CCGT 060200 L10°	6.35	2.38	0	TS 25	TORX T08	•	•	•	•
CCGT 060202 L			0.2			•	•	•	•
CCGT 060204 L			0.4			•	•	•	•
CCGT 09T302 L	9.525	3.97	0.2	TS 4	TORX T15	•	•	•	•
CCGT 09T304 L			0.4			•	•	•	•

TPGX ○○○○○○L



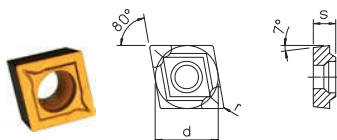
REF.	d	s	r	T	S	CARBIDE		CERMET	COATED CERMET
						DP300	DK100	DC100	DC100T
TPGX 090200 L10°	5.56	2.38	0	CS250T	TORX T08	•	•	•	•
TPGX 090202 L			0.2			•	•	•	•
TPGX 090204 L			0.4			•	•	•	•
TPGX 110300 L10°	6.35	3.18	0	CS300890T	TORX T08	•	•	•	•
TPGX 110302 L			0.2			•	•	•	•
TPGX 110304 L			0.4			•	•	•	•

TPGX ○○○○○○



REF.	d	s	r	T	S	SINTERED DIAMOND	CUBIC BORON NITRIDE	
						D20 MDC	D20 CBN	D25 CBN
TPGX 090202	5.56	2.38	0.2	CS250T	TORX T08	•	•	•
TPGX 090204			0.4			•	•	•
TPGX 110302	6.35	3.18	0.2	CS300890T	TORX T08	•	-	•
TPGX 110304			0.4			•	•	•

CCMT ○○○○○○



REF.	d	s	r	T	S	CARBIDE	CVD COATED CARBIDE
						DP300	DP100 R
CCMT 060202	6.35	2.38	0.2	TS 25	TORX T08	•	•
CCMT 060204			0.4			•	•
CCMT 09T304	9.525	3.97	0.4	TS 4	TORX T15	•	•
CCMT 09T308			0.8			•	•
CCMT 120404			0.4			•	•
CCMT 120408	12.7	4.76	0.8	TS 5	TORX T25	•	•



- BORING GRADE
- ПАСТОЧКА
- JAKOŚĆ WYTACZANIA
- STUPEŇ VYVRTÁVÁNÍ
- DELİK AÇMA SINIFI

ISO	CARBIDE ИЗ ТВЕРДОСПЛАВНОГО МЕТАЛЛА TWARDY METAL KARBID METALLI SERAMİK	CERMET	COATED CERMET МЕТАЛЛО-КЕРАМИЧЕСКАЯ С ПОКРЫТИЕМ CERMET POWLEKANY POTAHOVANÝ CERMET KAPLAMALI METALLI SERAMİK	CVD COATED CARBIDE ИЗ ТВЕРДОСПЛАВНОГО МЕТАЛЛА С ПОКРЫТИЕМ CVD TWARDY METAL POWLEKANY CVD CVD POTAHOVANÝ KARBID CVD KAPLI KARBÜR
P01				
P10		DC100	DC100T	DP100R
P20				
P30	DP300			
P40				
K01				
K10	DK100	DC100	DC100T	DP100R
K20	DP300			
K30				

DP300

- Roughing and finishing. Low carbon steel - stainless steels
- Черновая и чистовая обработка. Низкоуглеродистая сталь – нержавеющая сталь
- Obróbka zgrubna i wykończenie. Stale o niskiej zawartości węgla – stale nierdzewne
- Hrubování a dokončování. Nízkouhlíková ocel - nerezové oceli
- Kaba işleme ve bitirme. Düşük karbonlu çelik - paslanmaz çelikler

DK100

- Roughing and finishing. Aluminium alloy Cast iron
- Черновая и чистовая обработка. Алюминиевый сплав, чугун
- Obróbka zgrubna i wykończenie. Stopy aluminium i żeliwa
- Hrubování a dokončování. Hliníková slitina. Litina
- Kaba işleme ve bitirme. Alüminyum alaşım Dökme demir

DP100R

- Roughing. Steels, alloy steels and cast iron
- Черновая обработка. Сталь, легированная сталь и чугун
- Obróbka zgrubna. Stale, stale stopowe i żeliwa
- Hrubování. Oceli, slitinové oceli a litina
- Kaba işleme. Çelikler, alaşimli çelikler ve dökme demir

DC100

- Finishing. Alloy steels and cast iron
- Чистовая обработка. Легированная сталь в целом и сфероидальный чугун
- Wykończenie. Stale stopowe i żeliwa sferoidalne
- Dokončování. Slitinové oceli a litina
- Bitirme. Alaşimli çelikler ve dökme demir

DC100T

- Finishing. Alloy steels, stainless steels and cast iron
- Чистовая обработка. Легированная сталь в целом и сфероидальный чугун
- Wykończenie. Stale stopowe, stale nierdzewne i żeliwa sferoidalne
- Dokončování. Slitinové oceli, nerezové oceli a litina
- Bitirme. Alaşimli çelikler, paslanmaz çelikler ve dökme demir

D20MDC

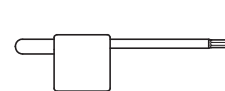
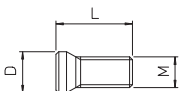
- Finishing. Aluminium alloys, non-ferrous materials and non-metals
- Чистовая обработка. Алюминиевые сплавы, цветные металлы и неметаллы
- Wykończenie. Stopy aluminium, materiały nieżelazne i niemetale
- Dokončování. Hliníkové slitiny, neželezné materiály a nekovy
- Bitirme. Alüminyum alaşımlar, demir içermeyen malzemeler ve metal olmayan malzemeler

D20CBN

- Finishing. High hardness steels (over 50 HRC) (it may replace the grinding)
- Чистовая обработка. Стали с высокой твердостью - по Роквеллу более 50 ед. по шкале С (может заменить шлифование)
- Wykończenie. Stale o dużej twardości przekraczającej 50 HRC (może zastępować szlifowanie)
- Dokončování. Oceli o vysoké tvrdosti (nad 50 HRC) (může nahradit broušení)
- Bitirme. Yüksek sertlikte (>50 HRC) çelikler (taşlamanın yerini alabilir)

D25CBN

- Finishing. High hardness steel (over 50 HRC) and interrupted cutting (it may replace the grinding)
- Чистовая обработка. Стали с высокой твердостью - по Роквеллу более 50 ед. по шкале С и прерывание резания (может заменить шлифование)
- Wykończenie. Stale o dużej twardości przekraczającej 50 HRC i skrawaniu przerywanym (może zastępować szlifowanie)
- Dokončování. Ocel o vysoké tvrdosti (nad 50 HRC) a přerušované frézování (může nahradit broušení)
- Bitirme. Yüksek sertlikte (>50 HRC) çelik ve fasıllı kesme (taşlamanın yerini alabilir)

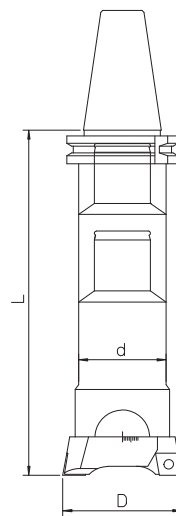


TORX

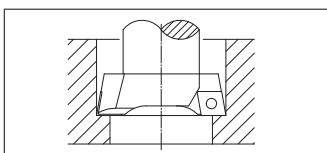
REF.	CODE	M	L	D	REF.	CODE
TS 21	494010002034	M 2x0.4	3.7	2.7	TORX TO6	10 150 09 0 0600
TS 211	494010002040		4			
CS 250 T	494010002565	M 2.5x0.45	6	3.7	TORX TO8	10 150 09 0 0800
CS 300890 T	494010003008	M 3x0.5	8	4.1		
TS 25	494010002555	M 2.5x0.45	5.7	3.45	TORX T15	10 150 09 0 1500
TS 4	494010004008	M 4x0.7	10	5.5		
TS 5	494010005009	M 5x0.8	11.5	7	TORX T25	10 150 09 0 2500
DMC US63	494210035070	M 3.5x0.6	10	5.2	TORX T15	10 150 09 0 1500

RECOMMENDED CUTTING CONDITIONS FOR ROUGHING OPERATIONS WITH DOUBLE-BIT HEADS TS
DATI DI TAGLIO CONSIGLIATI PER SGROSSATURA DI FORI CON TESTINE BITAGLIENTI TS

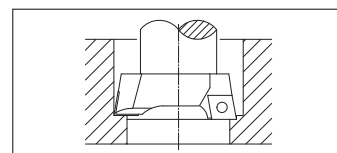
material materiale	boring bar dimensions dimensioni bareno	working conditions condizioni di lavoro	cutting speed Vc = m/min. velocità di taglio Vc = m/min.			feed fn = mm/rev (twin cutters) avanzamento f = mm/giro (due taglienti)		
			D < 38	diameter diametro		R = 0.2	insert radius raggio inserto	
				D = 38-120	D > 120		R = 0.4	R = 0.8
carbon steel acciaio al carbonio HB ≤ 200	L / d = 2.5	good / buona	120 - 180	140 - 200	160 - 250	-	0.2 - 0.4	0.3 - 0.5
	L / d = 4	normal / normale	100 - 160	120 - 180	140 - 200	-	0.2 - 0.4	0.3 - 0.5
	L / d = 6.3	difficult / difficile	70 - 100	70 - 100	70 - 100	0.15 - 0.3	0.2 - 0.4	-
carbon steel acciaio al carbonio HB > 200	L / d = 2.5	good / buona	100 - 160	120 - 180	140 - 200	-	0.2 - 0.4	0.3 - 0.5
	L / d = 4	normal / normale	80 - 140	100 - 160	120 - 180	-	0.2 - 0.4	0.3 - 0.5
	L / d = 6.3	difficult / difficile	60 - 90	70 - 100	70 - 100	0.15 - 0.3	0.2 - 0.4	-
stainless steel acciaio inox AISI 304 - 316	L / d = 2.5	good / buona	80 - 110	90 - 120	100 - 140	-	0.2 - 0.4	0.3 - 0.5
	L / d = 4	normal / normale	70 - 100	80 - 110	90 - 120	-	0.2 - 0.4	0.3 - 0.5
	L / d = 6.3	difficult / difficile	60 - 90	60 - 90	60 - 90	0.15 - 0.3	0.2 - 0.4	-
cast iron ghisa	L / d = 2.5	good / buona	90 - 120	100 - 140	120 - 160	-	0.2 - 0.4	0.3 - 0.5
	L / d = 4	normal / normale	70 - 100	90 - 120	100 - 140	-	0.2 - 0.4	0.3 - 0.5
	L / d = 6.3	difficult / difficile	60 - 90	60 - 90	60 - 90	0.15 - 0.3	0.2 - 0.4	-
aluminium alluminio	L / d = 2.5	good / buona	160 - 250	200 - 300	250 - 350	-	0.3 - 0.5	0.4 - 0.6
	L / d = 4	normal / normale	140 - 200	160 - 250	200 - 300	-	0.3 - 0.5	0.4 - 0.6
	L / d = 6.3	difficult / difficile	100 - 150	100 - 150	100 - 150	0.2 - 0.4	0.3 - 0.5	-



cutting depth profondità di passata	working range campo di lavoro	max. cutting depth max. profondità di passata	
		steel acciaio	cast iron, aluminium ghisa, alluminio
ap = mm	Ø = mm		
	18 - 28	1.5 - 2	2 - 2.5
	28 - 50	2 - 3	2.5 - 3.5
	50 - 68	3 - 4	3.5 - 5
	68 - 200	4 - 5	5 - 7
	200 - 500	5 - 6	6 - 8



- Twin cutters at the same cutting diameter
- Due taglienti sullo stesso diametro



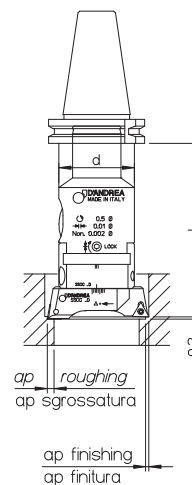
- Twin cutters at different cutting diameters
- Due taglienti su diametri diversi

- It's advisable to start with B hole ≥ the boring bar diameter d.
- È consigliabile che il preforo B sia ≥ al diametro del bareno d.

- **ATTENTION:** For boring operations at different diameters, reduce to a half the feed indicated on the above table.
- **ATTENZIONE:** Per lavorare con un solo tagliente o con differenti diametri di taglio, dimezzare l'avanzamento indicato in tabella.

RECOMMENDED CUTTING CONDITIONS FOR BORING OPERATIONS WITH DOUBLE-BIT TESTAROSSA TRD
DATI DI TAGLIO CONSIGLIATI PER ALESATURA CON TESTAROSSA BITAGLIENTE TRD

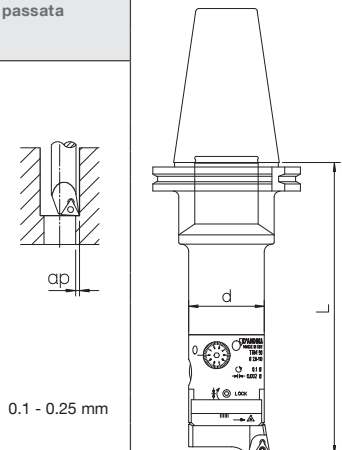
material materiale	boring bar dimensions dimensioni bareno	working conditions condizioni di lavoro	cutting speed Vc = m/min. velocità di taglio Vc = m/min.	feed fn = mm/rev avanzamento fn = mm/giro		quality insert qualità inserto		cutting depth profondità di passata			
				insert radius raggio inserto		roughing sgrossatura	finishing finitura	roughing sgrossatura			
				R = 0.2	R = 0.4			ø28 ø46	ø46 ø75	ø75 ø160	
carbon steel acciaio al carbonio HB ≤ 200	L / d = 2.5	good / buona	160 - 250	0.1 - 0.2	0.1 - 0.2	DC100 DP300	DP300 DP100R	0.15 - 0.3	1.5	2	2.5
	L / d = 4	normal / normale	120 - 180	0.1 - 0.2	0.1 - 0.2						
	L / d = 6.3	difficult / difficile	70 - 100	*0.1 - 0.15	0.1 - 0.2						
carbon steel acciaio al carbonio HB > 200	L / d = 2.5	good / buona	140 - 200	0.1 - 0.2	0.1 - 0.2	DC100	DP300 DP100R	0.15 - 0.3	1.5	2	2.5
	L / d = 4	normal / normale	100 - 160	0.1 - 0.2	0.1 - 0.2						
	L / d = 6.3	difficult / difficile	70 - 100	*0.1 - 0.15	0.1 - 0.2						
stainless steel acciaio inox AISI 304 - 316	L / d = 2.5	good / buona	100 - 140	0.1 - 0.2	0.1 - 0.2	DP300	DP300	0.15 - 0.3	1.5	2	2.5
	L / d = 4	normal / normale	80 - 110	0.1 - 0.2	0.1 - 0.2						
	L / d = 6.3	difficult / difficile	60 - 90	*0.1 - 0.15	0.1 - 0.2						
cast iron ghisa	L / d = 2.5	good / buona	120 - 160	0.1 - 0.2	0.1 - 0.2	DK100 DC300	DP100R	0.15 - 0.3	2	2.5	3
	L / d = 4	normal / normale	90 - 120	0.1 - 0.2	0.1 - 0.2						
	L / d = 6.3	difficult / difficile	60 - 90	*0.1 - 0.15	0.1 - 0.2						
aluminium alluminio	L / d = 2.5	good / buona	250 - 350	0.1 - 0.2	0.1 - 0.2	DK100	DK100	0.15 - 0.3	2	2.5	3
	L / d = 4	normal / normale	160 - 250	0.1 - 0.2	0.1 - 0.2						
	L / d = 6.3	difficult / difficile	100 - 150	*0.1 - 0.15	0.1 - 0.2						



* Only for finishing inserts
 * Solo per inserti di finitura



- RECOMMENDED CUTTING CONDITIONS FOR BORING OPERATIONS WITH TESTAROSSA TR-E / TRM / TRC / TR-PSC
- DATI DI TAGLIO CONSIGLIATI PER L'ALESATURA CON TESTAROSSA TR-E / TRM / TRC / TR-PSC

material materiale	boring bar dimensions dimensioni bareno	working conditions condizioni di lavoro	cutting speed $V_c = m/min.$ velocità di taglio $V_c = m/min.$	feed $f_n = mm/rev$ avanzamento $f_n = mm/giro$			quality insert qualità inserto	cutting depth profondità di passata	
				insert radius raggio inserto					
				R = 0.0	R = 0.2	R = 0.4			
carbon steel acciaio al carbonio $HB \leq 200$	L / d = 2.5	good / buona	200 - 300	-	0.05 - 0.08	0.07 - 0.1	DC100 DP300		
	L / d = 4	normal / normale	160 - 250	-	0.05 - 0.08	0.07 - 0.1			
	L / d = 6.3	difficult / difficile	70 - 100	0.05 - 0.08	0.05 - 0.08	-			
carbon steel acciaio al carbonio $HB > 200$	L / d = 2.5	good / buona	160 - 250	-	0.05 - 0.08	0.07 - 0.1	DC100		
	L / d = 4	normal / normale	150 - 200	-	0.05 - 0.08	0.07 - 0.1			
	L / d = 6.3	difficult / difficile	70 - 100	0.05 - 0.08	0.05 - 0.08	-			
stainless steel acciaio inox AISI 304 - 316	L / d = 2.5	good / buona	120 - 160	-	0.05 - 0.08	0.07 - 0.1	DP300		
	L / d = 4	normal / normale	100 - 140	-	0.05 - 0.08	0.07 - 0.1			
cast iron ghisa	L / d = 2.5	good / buona	120 - 160	-	0.05 - 0.08	0.07 - 0.1	DK100 DC100		
	L / d = 4	normal / normale	100 - 140	-	0.05 - 0.08	0.07 - 0.1			
	L / d = 6.3	difficult / difficile	70 - 100	0.05 - 0.08	0.05 - 0.08	-			
aluminium alluminio	L / d = 2.5	good / buona	300 - 400	-	0.05 - 0.08	0.07 - 0.1	DK100		
	L / d = 4	normal / normale	250 - 350	-	0.05 - 0.08	0.07 - 0.1			
	L / d = 6.3	difficult / difficile	100 - 150	0.05 - 0.08	0.05 - 0.08	-			
steel acciaio $HB \leq 200$	L / d = 2.5	good / buona	80 - 100	-	0.04 - 0.06	0.05 - 0.07	D20CBN		
	L / d = 4	normal / normale	80 - 100	-	0.04 - 0.06	0.05 - 0.07			

- CALCULATION FORMULAS FOR BORING
- FORMULA DI CALCOLO PER ALESATURA

V_c • cutting speed (m/min.)
• velocità di taglio (m/min.)

$$V_c = \frac{\pi \cdot D \cdot n}{1000}$$

D • diameter of workpiece (mm)
• diametro del pezzo da lavorare (mm)

n • number of revolutions / min' (rev./min.)
• numero di giri al minuto (giri/min.)

$$n = \frac{V_c \cdot 1000}{\pi \cdot D}$$

V_f • feed rate (mm/min.)
• velocità avanzamento (mm/min.)

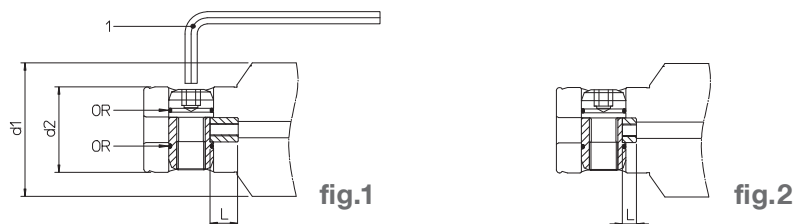
$$V_f = n \cdot f_n$$

f_n • feed / rev. (mm/rev)
• avanzamento al giro (mm/giro)

π • 3.14

- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

SYSTEM MHD'



REF.	CODE	d1	d2	CODE 1	CODE OR	L	fig.
MHD' 14	381725001161	14	10	101500100250	-	2	2
MHD' 16		16					
MHD' 20	381725001201	20	13	101500100300	-	2.5	
MHD' 25	381725001251	25	16			3	
MHD' 32	381725001321	32	20	101500100400	101254007510	3.55	
MHD' 40	381725001401	40	25	101500100500	101254010010	4	
MHD' 50 RD 50 / .. TR-E - TRM - TRC - TRD	381725001501	50	32	101500100600	101254013010	4.2	
MHD' 50	381725001001					12.2	
MHD' 63-80	381725001002	63-80	42	101500100800	101251002075	13.85	1
MHD' 110 - 140	381725001003	110-140	76	101500101400	101251003112	10	

TS

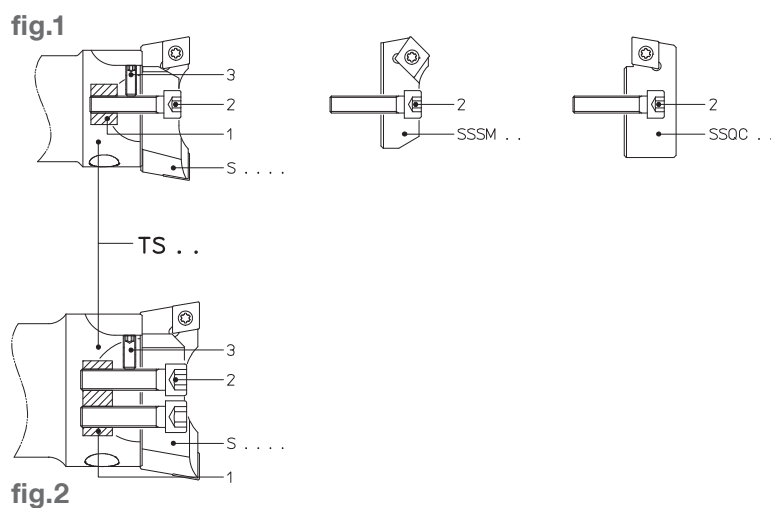
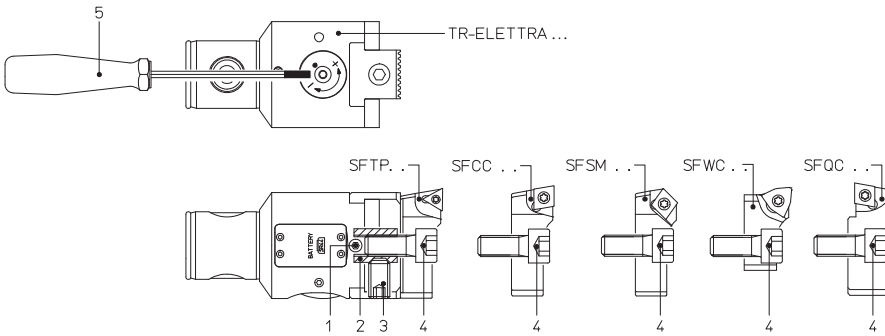


fig.	REF.	CODE 1	CODE 2	CODE 3
1	TS 16/16	201430110008	100051030014	100231030004
	TS 20/20	201430110009	100051040015	100231030005
	TS 25/25	201430110010	100051040020	100231030008
	TS 32/32	201430110011	100051050025	100231040012
	TS 40/40	201430110012	100051060030	100231050014
2	TS 50/50	201430110013	100051080035	100231050012
	TS 50/63	201430110014	100051100040	100231060016
	TS 63/63			
	TS 80/80	201430110015	100051120045	100231080025



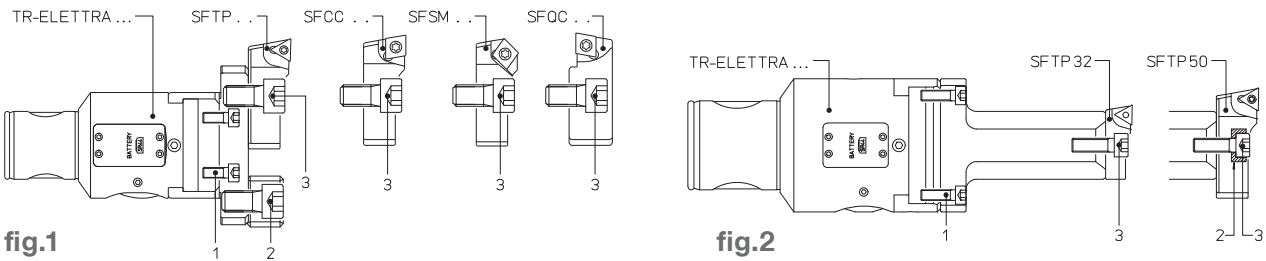
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

TR-ELETTRA



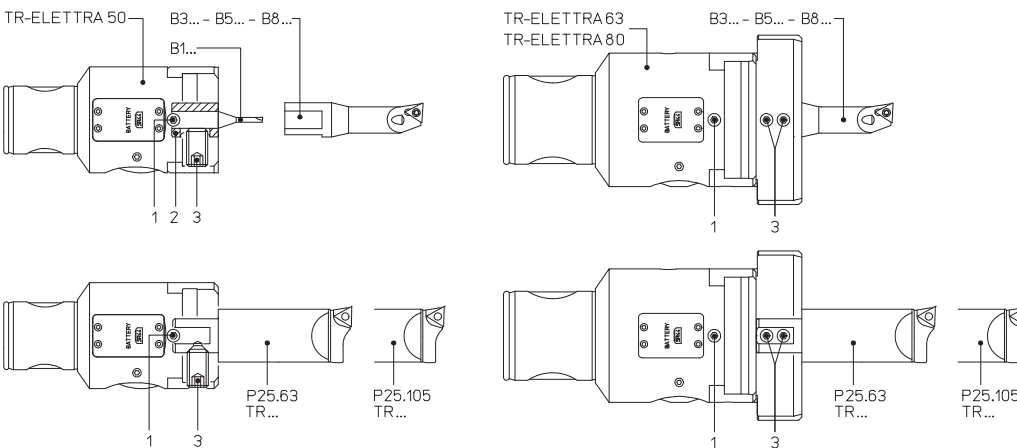
REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
TR-ELETTRA 32	100238050007	-	-	100051060012	101500800250
TR-ELETTRA 40				100051080014	101500800300
TR-ELETTRA 50	100238060010	201041015002	100231100016	100051100025	101500800250
TR-ELETTRA 63		-	-	100051100020	
TR-ELETTRA 80	200100150614				100051100025

TR-ELETTRA



REF.	CODE 1	CODE 2	CODE 3	fig
TR-ELETTRA 50	200100150501	100051100020	100051100025	1
TR-ELETTRA 63	100051050025			
TR-ELETTRA 80	100051050025			
TR-ELETTRA 63	100051050016	201040607001	100051006020	2
TR-ELETTRA 80				

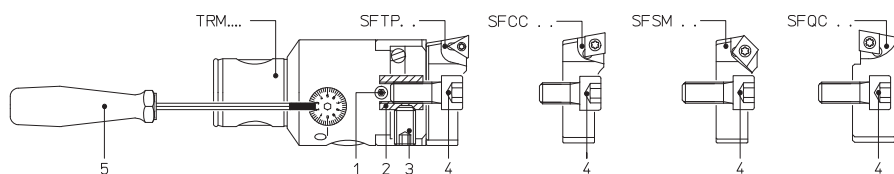
TR-ELETTRA



REF.	CODE 1	CODE 2	CODE 3
TR-ELETTRA 50	100238060010	200560116082	100231100016
TR-ELETTRA 63		-	100231060006
TR-ELETTRA 80	200100150614		

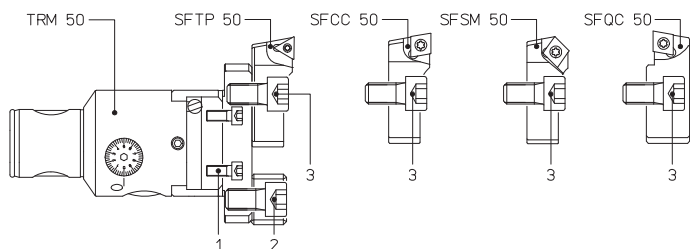
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

TRM



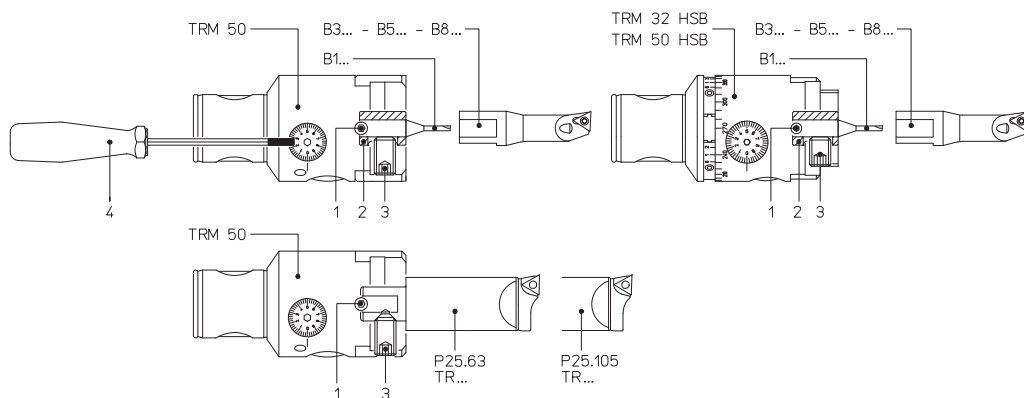
REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
TRM 16	200100190301			100051030006	101500800150
TRM 20				100051040008	
TRM 25	100271040004	-	-	100051050010	101500800200
TRM 32	100231040006			100051060012	
TRM 40	100271050006	201041015002	100231100016	100051080014	101500800250
TRM 50	100271050008			100051100025	

TRM



REF.	CODE 1	CODE 2	CODE 3
TRM 50	200100150501	100051100020	100051100025

TRM

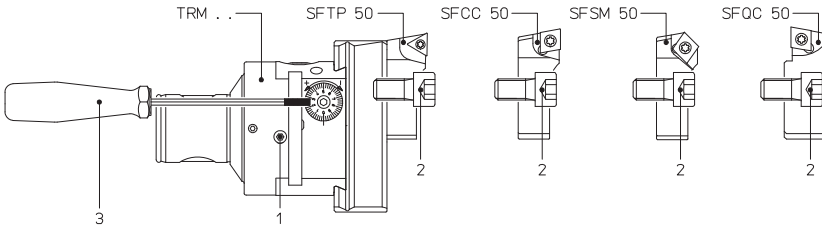


REF.	CODE 1	CODE 2	CODE 3	CODE 4
TRM 50	100271050008	200560116082	100231100016	101500800250
TRM 32 HSB	100271040005	-	100231050008 100231050012	101500800200
TRM 50 HSB	100271050008	200560116082	100231100010	101500800250



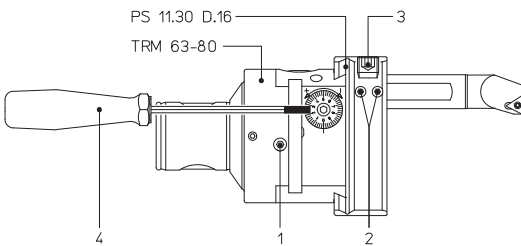
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

TRM



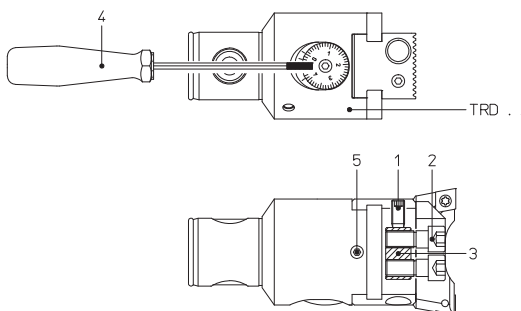
REF.	CODE 1	CODE 2	CODE 3
TRM 63	100251060010	100051100018	101500800300
TRM 80	100251060014		
TRM 125	100251060020		

TRM



REF.	CODE 1	CODE 2	CODE 3	CODE 4
TRM 63	100251060010	100231050006	100231100010	101500800300
TRM 80	100251060014			

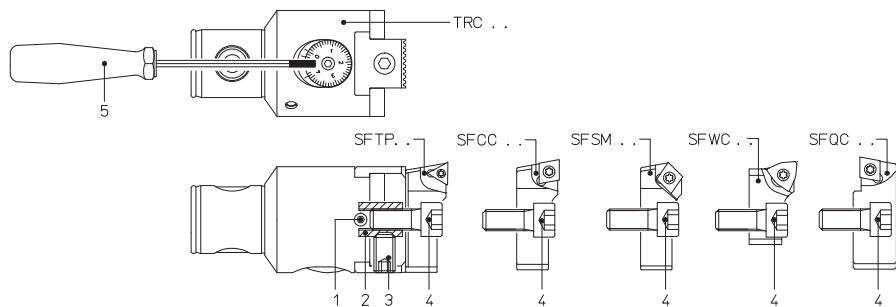
TRD



REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
TRD 25	100231040008	200100150411	201430110024	101500800200	100271040004
TRD 32	100231050010	200100150512	201430110023	101500800250	100271050006
TRD 40	100231060012	200100150616	201430170001	101500800300	100271060006
TRD 50	100231060014	200100150820	201430110021		100271060008
TRD 63	100231060016	200100151026	201430110026		100271060012
TRD 80	100231060020	200100151230	201430110022		

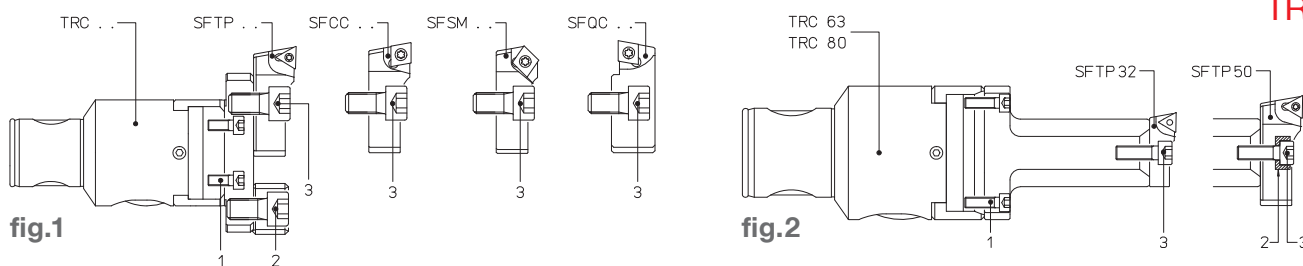
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

TRC



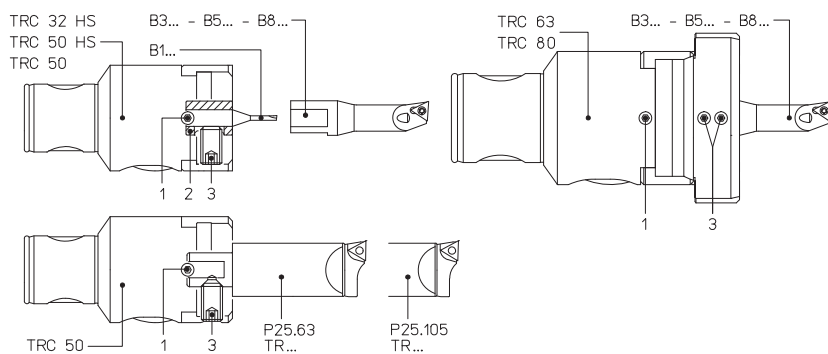
REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
TRC 14	200100190302			100051030006	101500800150
TRC 16	200100190301			100051040008	
TRC 20				100051050010	
TRC 25	100271040004	-	-	100051060012	101500800250
TRC 32	100271050005			100051080014	101500800300
TRC 40	100271060006			100051100025	
TRC 50	100271060008	201041015002	100231100016	100051100020	
TRC 63				100051100025	
TRC 80	100271060012	-	-		

TRC



REF.	CODE 1	CODE 2	CODE 3	fig.
TRC 50	200100150501	100051100020	100051100025	1
TRC 63	100051050025			
TRC 80				
TRC 63	100051050016	201040607001	100051006020	2
TRC 80				

TRC

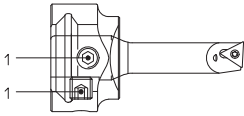


REF.	CODE 1	CODE 2	CODE 3
TRC 32 HS	100271050006	-	100231050008 100231050012
TRC 50 HS	100271060008	200560116082	100231100010
TRC 50			
TRC 63		-	100231060006
TRC 80	100271060012		



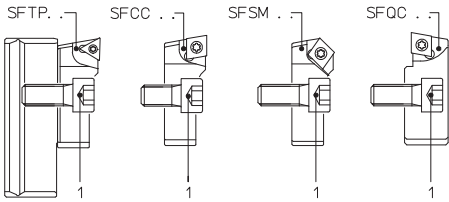
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

P 20.30



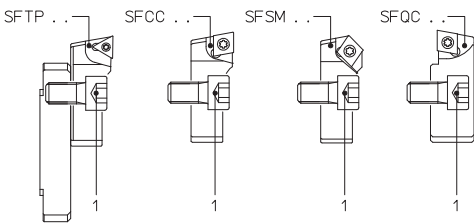
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P20.30	100251080008

PS



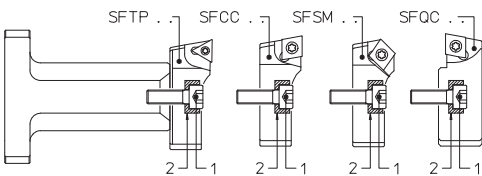
REF.	CODE 1
PS 11.30	100051100018
PS 12.30	
PS 13.30	
PS 11.40	100051100025
PS 12.40	
PS 13.40	
PS 14.40	

PS



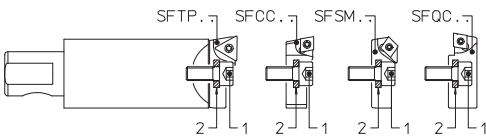
REF.	CODE1
PS31.24	100051100020
PS31.28	100051100025
PS32.28	
PS33.28	

P 22.28



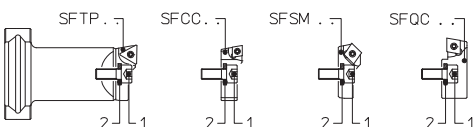
REF.	CODE 1	CODE 2
P22.28	100051060020	201040607001

P 25



REF.	CODE 1	CODE 2
P25.63	100051050012	100800100530
P25.105		

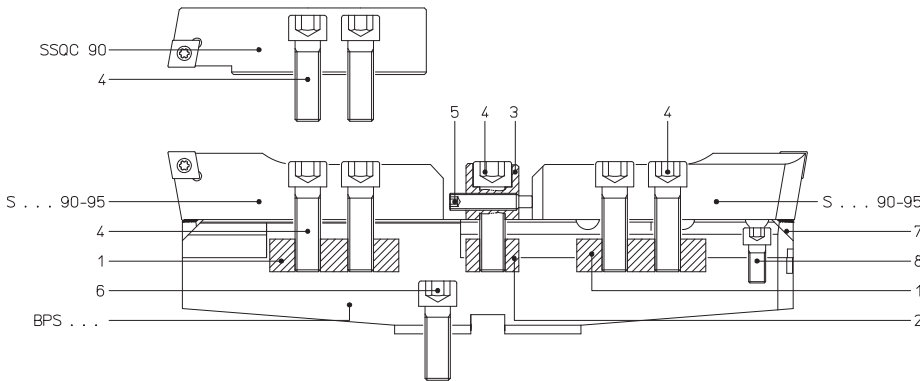
P



REF.	CODE 1	CODE 2
P 00.30	100051050012	100800100530
P 03.30		
P 04.30		
P 02.40	100051060018	100800100640
P 03.40		
P 04.40		

- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

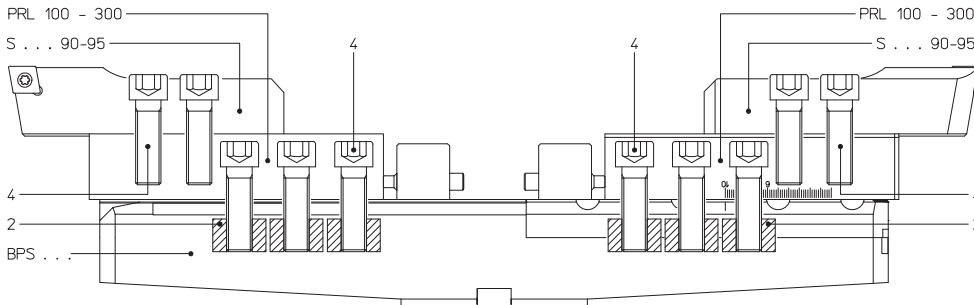
BPS



REF.	CODE 1	CODE 2	CODE 3	CODE 4
BPS 200-300-400	201430110017	201430110016	201100502601	100051120040
BPS 500-600-700-800				
BPS 1000-1150-1600 GD				

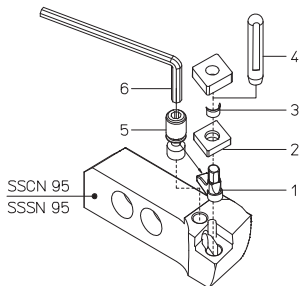
REF.	CODE 5	CODE 6	CODE 7	CODE 8
BPS 200	100251080040	100051120035	200655015707	100051080025
BPS 300			200655015708	
BPS 400			200655016301	100051080020
BPS 500-600-700-800		100051160050		100051080025
BPS 1000-1150-1600 GD		100051200060		100051080030
BPS 1600 GD				

BPS + PRL 100 - 300



REF.	CODE 2	CODE 4
BPS 200-300-400	201430110016	100051120040
BPS 500-600-700-800		
BPS 1000-1150-1600 GD		

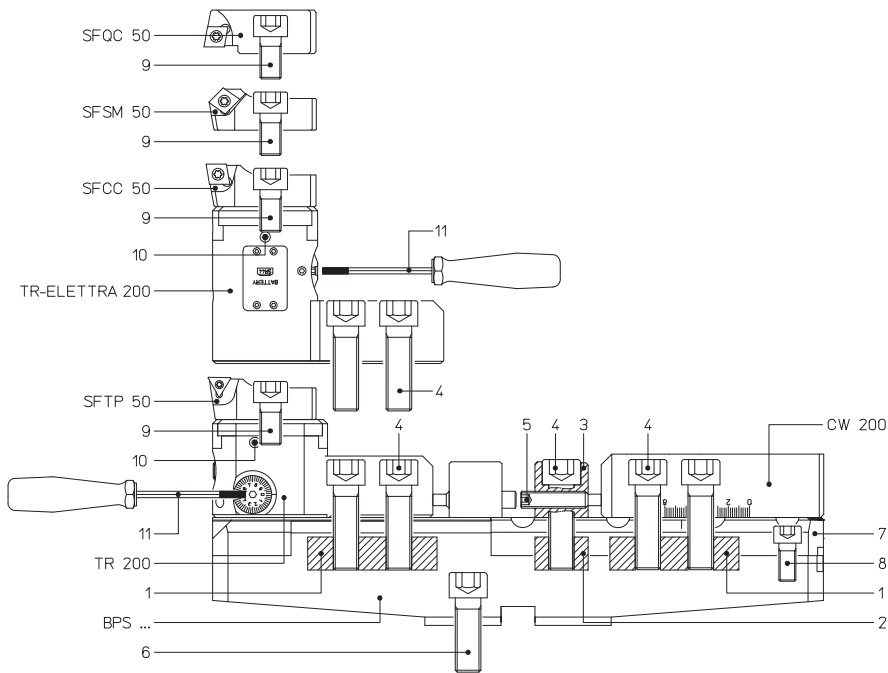
SS 95



REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5	CODE 6
SSCN 95	491111190600	492031190600	100655095112	101501301408	494311190600	101500100400
SSSN 95		492035190600				



- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

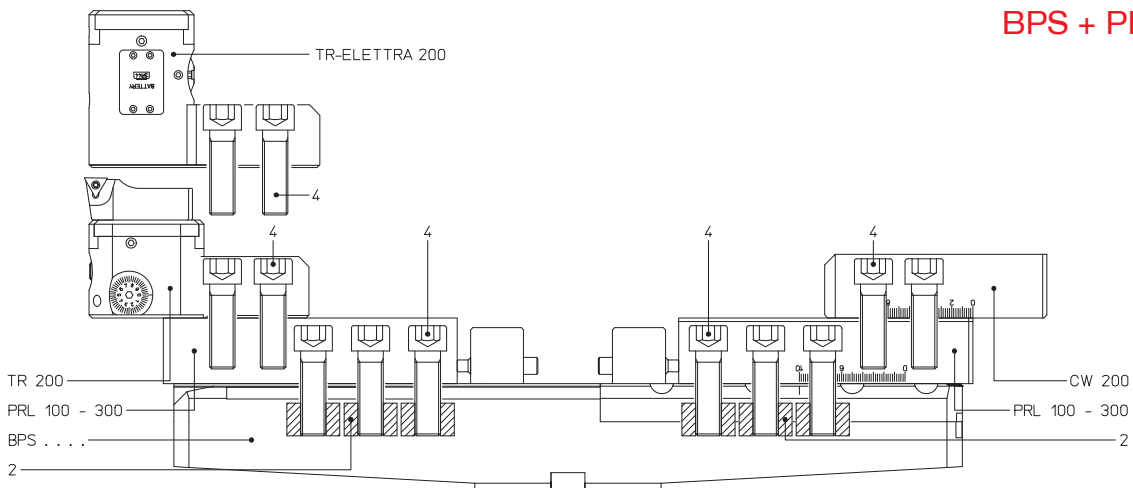


REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
BPS 200-300-400	201430110017	201430110016	201100502601	100051120040	100251080040
BPS 500-600-700-800					
BPS 1000-1150-1600 GD					

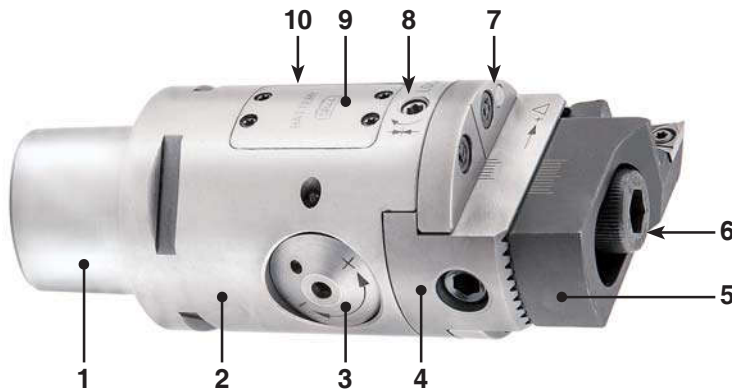
REF.	CODE 6	CODE 7	CODE 8
BPS 200	100051120035	200655015707	100051080025
BPS 300		200655015708	
BPS 400		100051160050	200655016301
BPS 500-600-700-800	100051080025		
BPS 1000-1150-1600 GD	100051080030		
BPS 1600 GD	100051200060		

REF.	CODE 9	CODE 10	CODE 11
BPS 200-300-400	100051100020	100251060008	101500800300
BPS 500-600-700-800			
BPS 1000-1150-1600 GD			

BPS + PRL 100 - 300



REF.	CODE 2	CODE 4
BPS 200-300-400	201430110016	100051120040
BPS 500-600-700-800		
BPS 1000-1160-1600 GD		



- 1 • PSC
• PSC
• PSC
• PSC
• PSC

- 2 • Body
• Корпус
• Korpus
• Telo
• Gövde

- 3 • Set screw
• Установочный винт
• Śruba ustawcza
• Nastavovací šroub
• Ayar vidası

- 4 • Slide toolholder
• Салазки
• Sanie narzędziowe
• Nástrojový držák šoupátka
• Kayar takim tutucu

- 5 • Bit holder
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani

- 6 • Tools clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Uprínací šrouby nástroje
• Takımlann sikma vidaları

- 7 • Coolant outlet
• Выход хладагента
• Wylot cieczy chłodzącej
• Výstup chladicí kapaliny
• Soğutma sıvısı çıkışı

- 8 • Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca sanie narzędziowe
• Uprínací šroub šoupátka
• Sürgülü sikma vidası

- 9 • Battery compartment cover
• Крышка батарейного отсека
• Osłona baterii
• Kryt prostoru baterie
• Pil bölümü kapağı

- 10 • Oiler
• Масленка
• Smarownica
• Olejnička
• Yağlayıcı

IP67

2 μm



- 11 • Digital display
• Цифровой дисплей
• Wyświetlacz cyfrowy
• Digitální displej
• Dijital gösterge

- 12 • Selection button
• Кнопка выбора
• Przycisk Wyboru
• Tlačítko pro výběr
• Seçme düğmesi

TR-E 50 - PSC 50



TR-E 63 - PSC 63

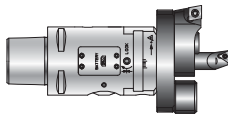


TR-E 80 - PSC 80



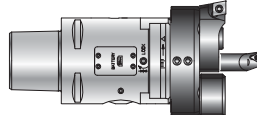
TR-ELETTRA 50 PSC 50

Ø 2.5 ~ 110



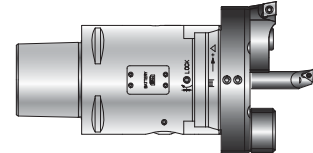
TR-ELETTRA 63 PSC 63

Ø 6 ~ 125



TR-ELETTRA 80 PSC 80

Ø 6 ~ 200



GB FEATURES. The TR-ELETTRA heads enable high precision machining with tolerance grade, IT6, with excellent surface finish. They have a 1 micron radius adjustment sensitivity on a built-in digital display, ensuring maximum speed and adjustment accuracy. The TR-ELETTRA heads are resistant to water infiltration and are coated with an anti-corrosive surface protection.

RU ХАРАКТЕРИСТИКИ. Головки TR-Elettra позволяют производить высокоточную обработку по классу IT6 с исключительным качеством поверхности. Они имеют точность регулировки радиуса в 1 микрон на встроенном цифровом дисплее обеспечивая скорость и точность настройки. Головки TR-ELETTRA являются влагозащищенными и имеют антикоррозионное покрытие.

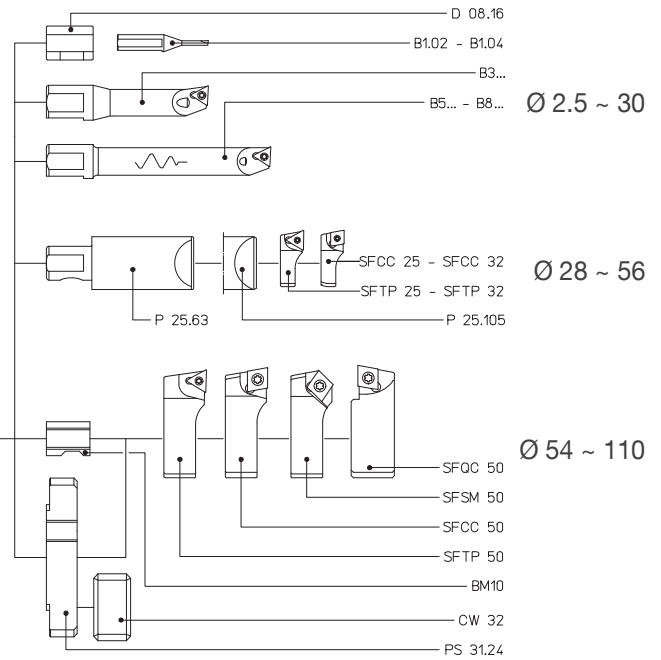
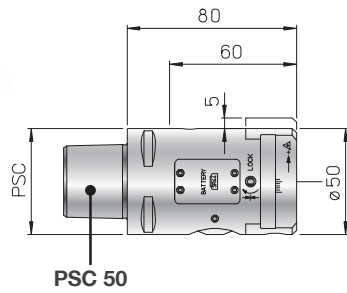
PL CECHY. Głowice TR-Elettra umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Posiadają dokładność ustawczą 1 mikrometr na promieniu widoczną na wbudowanym wyświetlaczu cyfrowym, zapewniającym maksymalną szybkość i dokładność ustawienia. Głowice TR-Elettra są odporne na przedostawanie się chłodziwa i są pokryte warstwą anykorozyjną.

CZ VLASTNOSTI. Pomocí hlav TR-ELETTRA se dosáhne vysoce přesného obrábění podle tolerance IT6 s vynikající finální úpravou povrchu. Přesnost nastavení poloměru na vestavěném digitálním displeji je 1 mikron, což zajišťuje maximální přesnost a rychlost nastavení. Tyto TR-ELETTRA hlavy jsou voděodolné a jsou potaženy antikorozií povrchovou vrstvou.

TR ÖZELLİKLER. TR-ELETTRA kafaları IT6 toleransında mükemmel yüzey kalitesinde yüksek hassasiyet sağlar. Dijital göstergede 1 mikron yarıçap ayarı hassasiyeti ile maximum hız ve ayar doğruluğuna sahiptir.



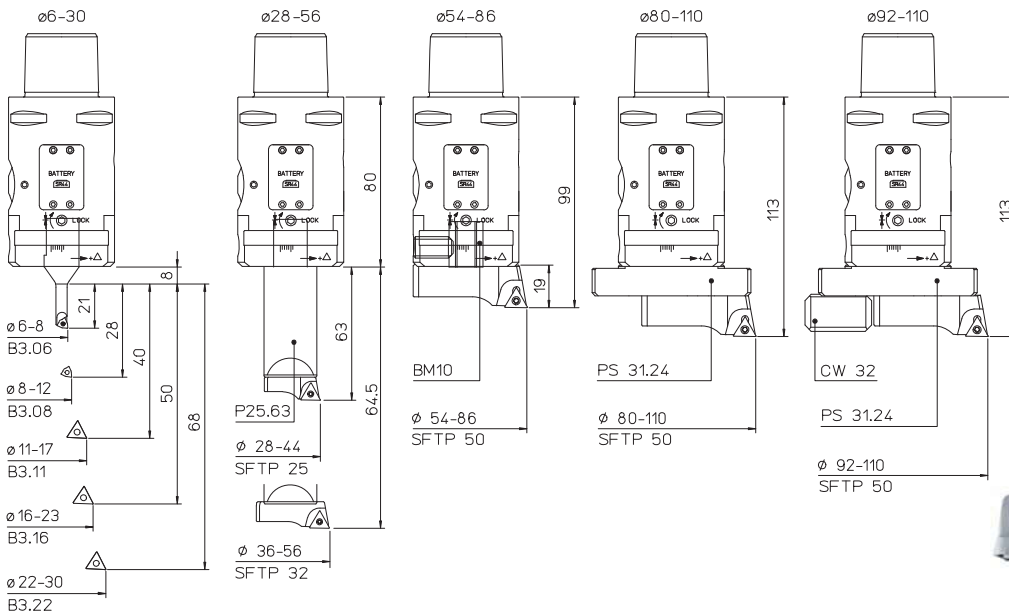
2 μ m



REF.	CODE	Kg.
TR-ELETTRA 50 PSC 50	455255026050	1.2

KIT K01

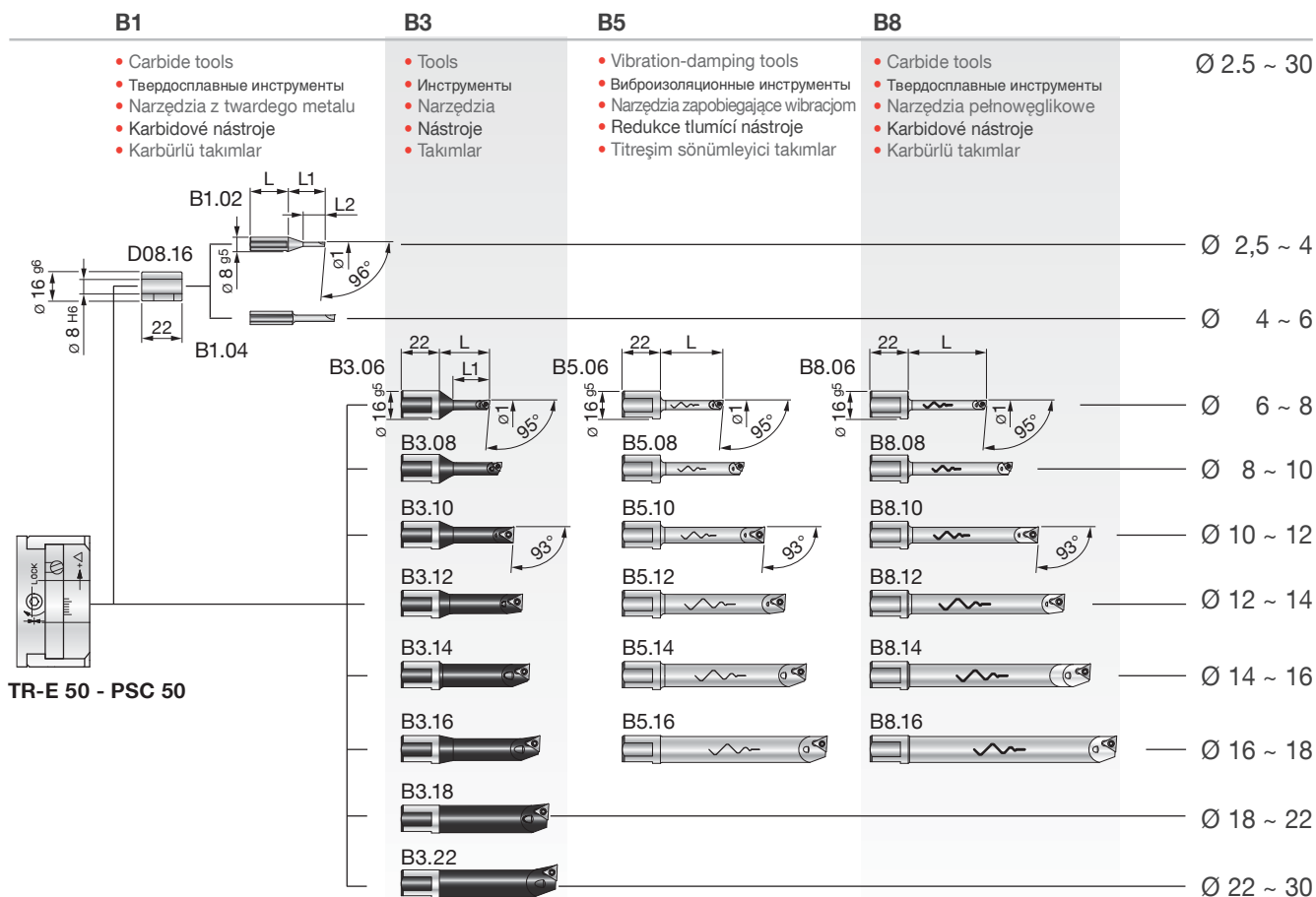
\varnothing 6 ~ 110



- 1 TR-ELETTRA 50 PSC 50
- 1 P25.63 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 BM10 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 PS 31.24 1 B3.11 1 SFTP32 2 WCGT 020102L DC100
- 1 CW 32 1 B3.16 1 SFTP50

REF.	CODE	\varnothing
KIT K01 TR-ELETTRA 50 PSC 50	655255026050	6 ~ 110





TR-E 50 - PSC 50

REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⊖	⊖	⊖	⊖	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1
B3.18	572010518001	18 ~ 22	63	-					
B3.22	572010522001	22 ~ 30	68	-					

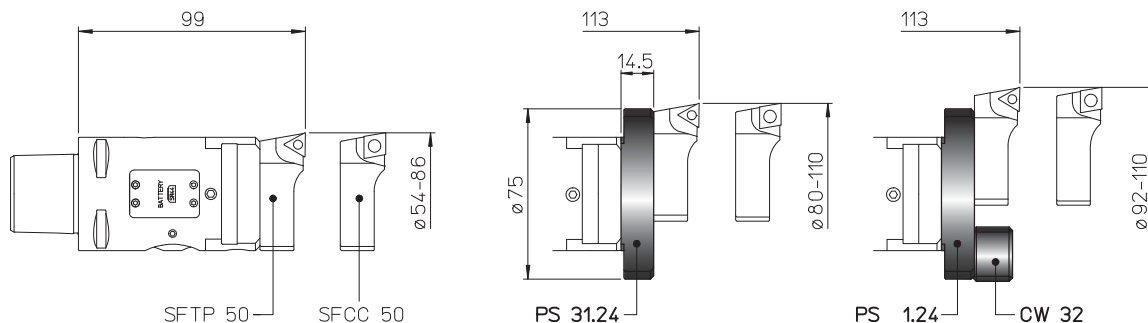
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				TS 211		0.09
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96					0.3	

B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				TS 211		0.08
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120					0.3	

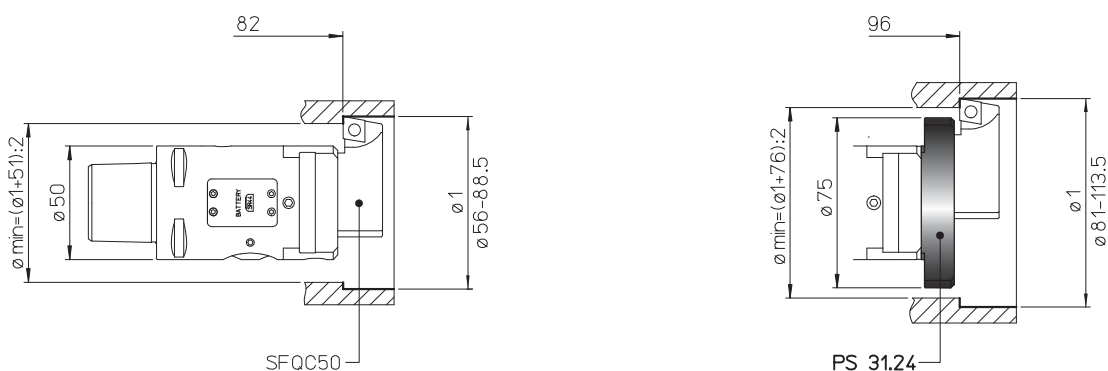
PSC 50 ISO 26623-1

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁÓWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

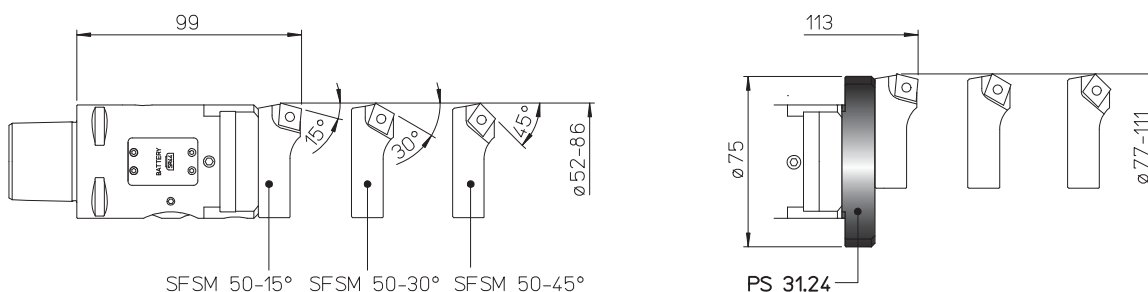
PS 31
CW 32
Ø 54 ~ 110



PS 31
Ø 56 ~ 113.5



PS 31
Ø 52 ~ 111

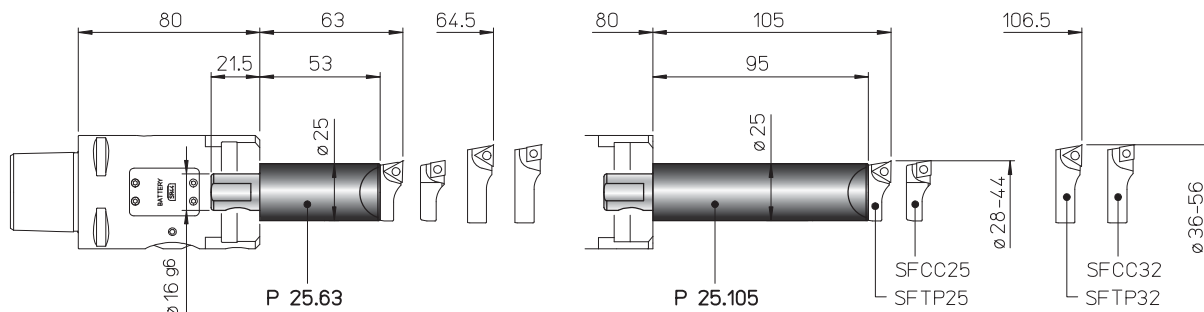


REF.	CODE	Kg.
PS 31.24 TR..50	433024140751	0.19
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

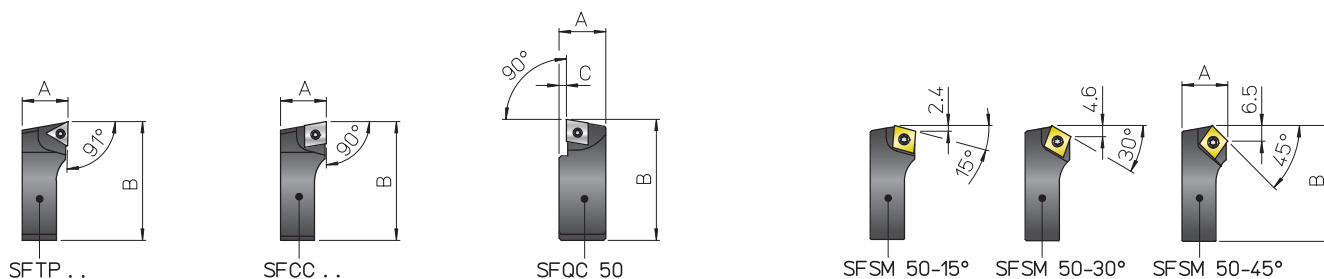
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



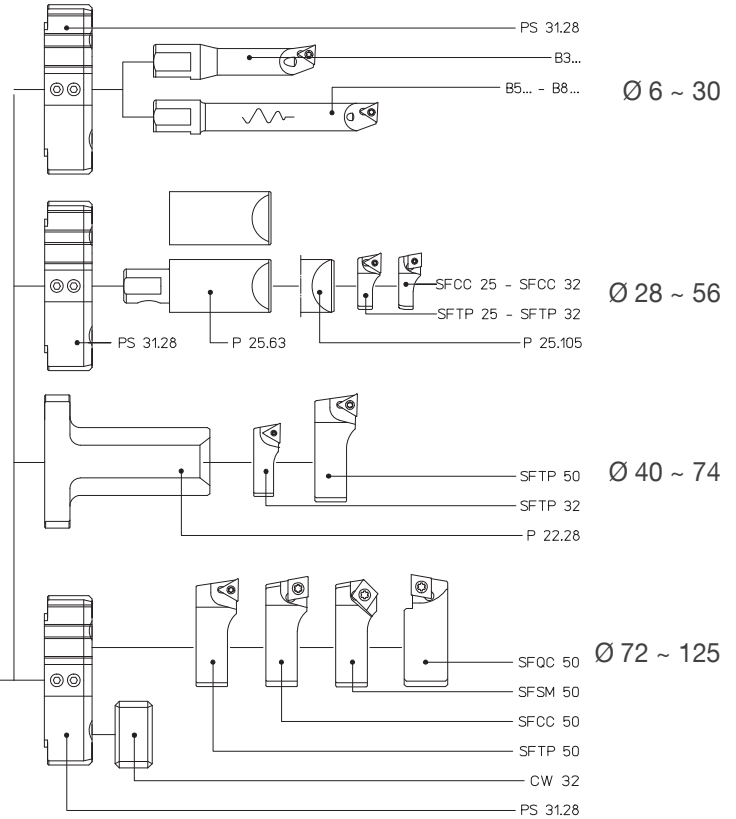
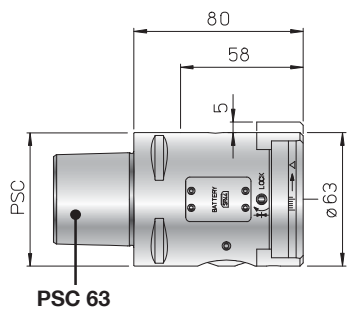
REF.	CODE	A	B	C	△	□	⌘	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	CS 300890T		0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	-		0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								



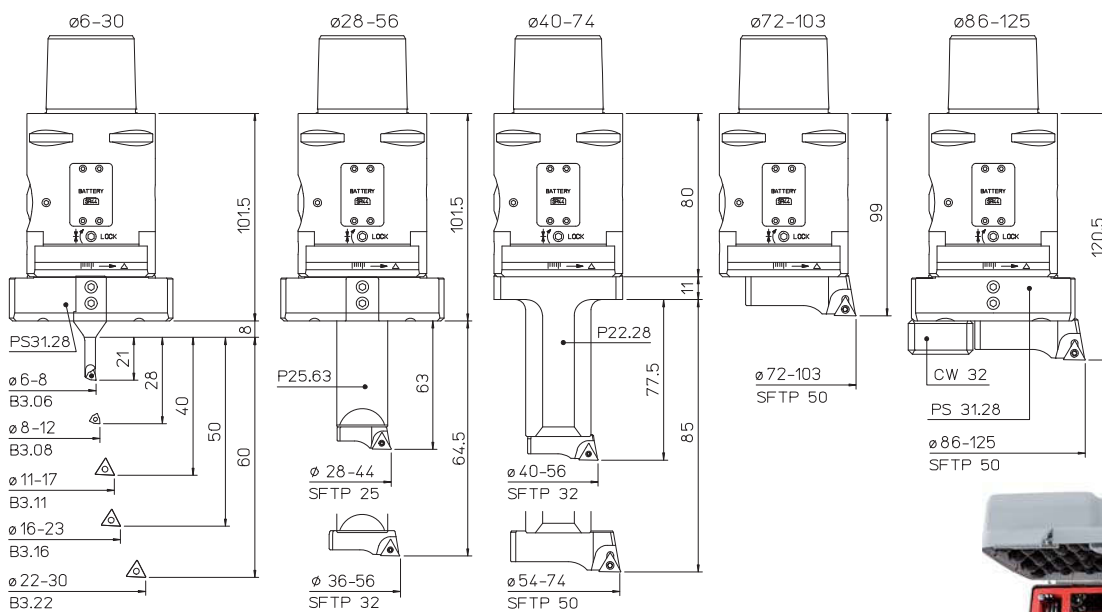
150



2 µm



REF.	CODE	Kg.
TR-ELETTRA 63 PSC 63	455256326060	2.1



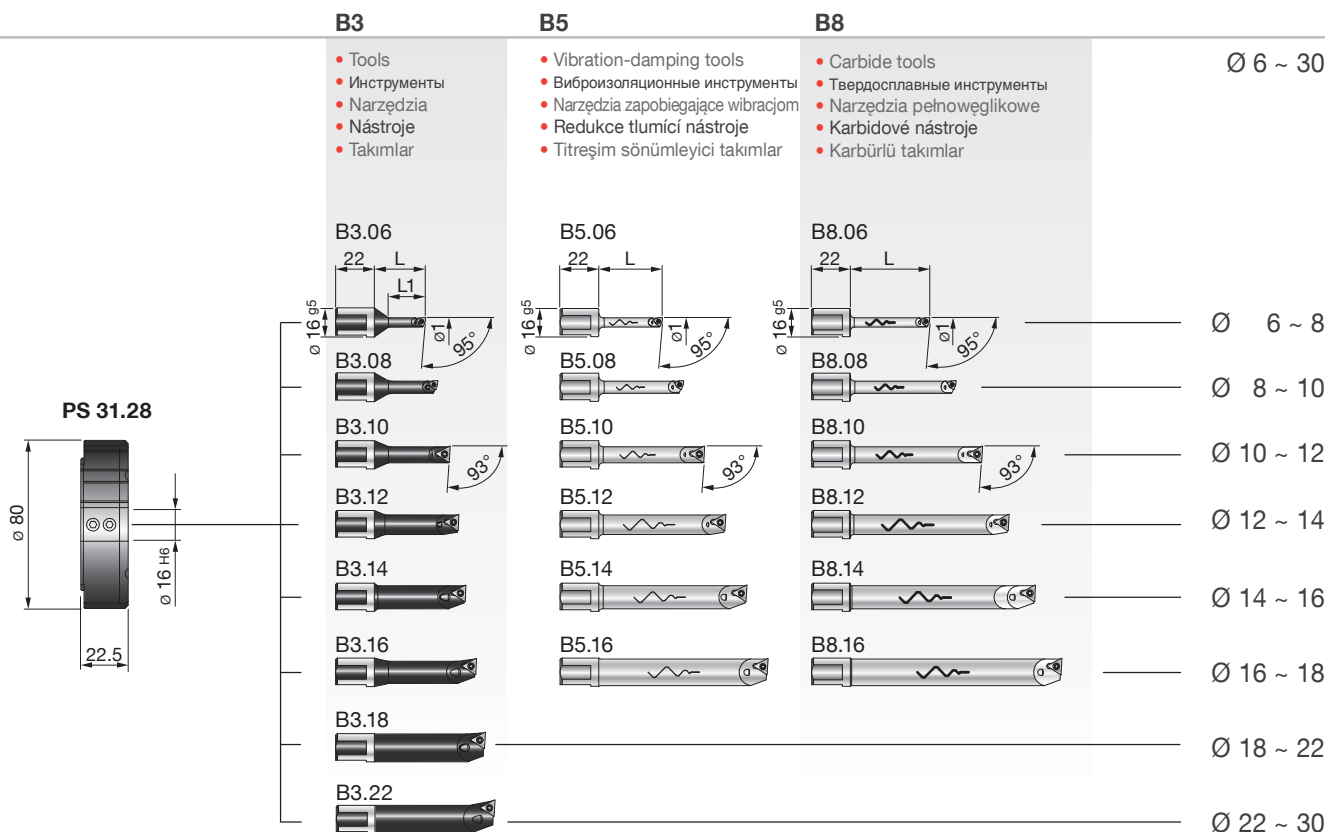
KIT K01
Ø 6 ~ 125



- 1 TR-ELETTRA 63 PSC 63
- 1 P25.63 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 P22.28 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 PS 31.28 1 B3.11 1 SFTP32 2 WCGT 020102L DC100
- 1 CW 32 1 B3.16 1 SFTP50

REF.	CODE	Ø
KIT K01 TR-ELETTRA 63 PSC 63	655256326060	6 ~ 125





REF.	CODE	Kg.
PS 31.28 TR-ELETTRA 63	433028220802	0.3

REF.	CODE	Ø1	L	L1	⚠	⚠	🔩	🔩	Kg.
B3.06	57 201 05 06 001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	57 201 05 08 001	8 ~ 10	36	28			TS 211		0.04
B3.10	57 201 05 10 001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	57 201 05 11 001	11 ~ 13	48	40					0.055
B3.12	57 201 05 12 001	12 ~ 14	48	42					0.06
B3.14	57 201 05 14 001	14 ~ 16	52	50					0.07
B3.16	57 201 05 16 001	16 ~ 18	58	-	-	-	-	-	0.1
B3.18	57 201 05 18 001	18 ~ 22	63	-	-	-	-	-	0.1
B3.22	57 201 05 22 001	22 ~ 30	68	-	-	-	-	-	0.1

B5.06	57 201 05 06 105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	57 201 05 08 105	8 ~ 10	48				TS 211		0.09
B5.10	57 201 05 10 105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	57 201 05 12 105	12 ~ 14	72					0.2	
B5.14	57 201 05 14 105	14 ~ 16	84					0.3	
B5.16	57 201 05 16 105	16 ~ 18	96					0.3	

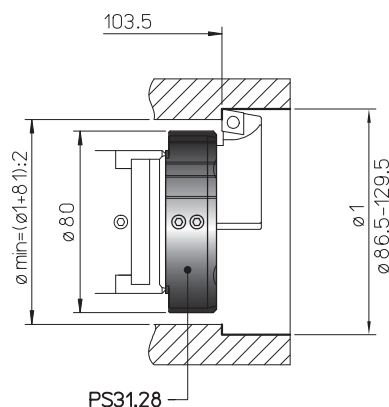
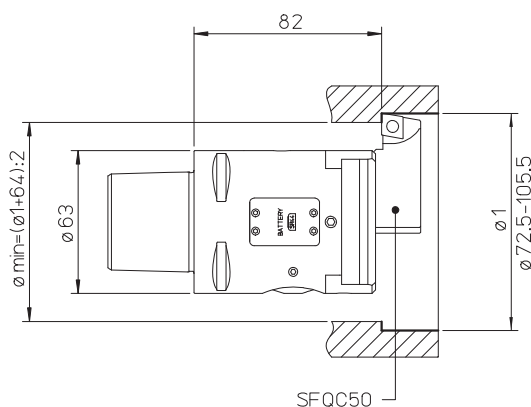
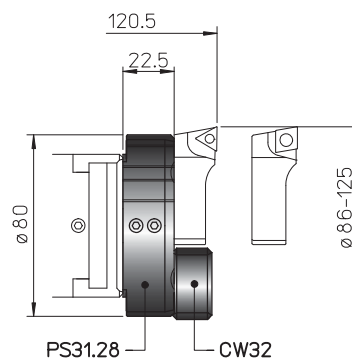
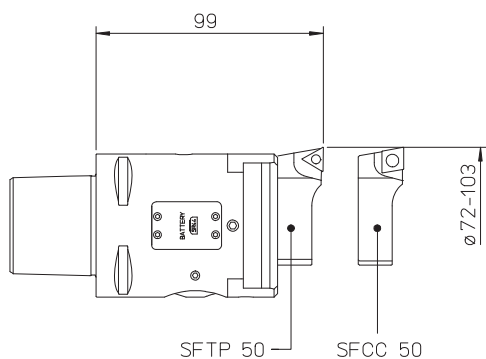
B8.06	57 201 05 06 108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	57 201 05 08 108	8 ~ 10	60				TS 211		0.08
B8.10	57 201 05 10 108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	57 201 05 12 108	12 ~ 14	90					0.2	
B8.14	57 201 05 14 108	14 ~ 16	105					0.2	
B8.16	57 201 05 16 108	16 ~ 18	120					0.3	



PSC 63 ISO 26623-1

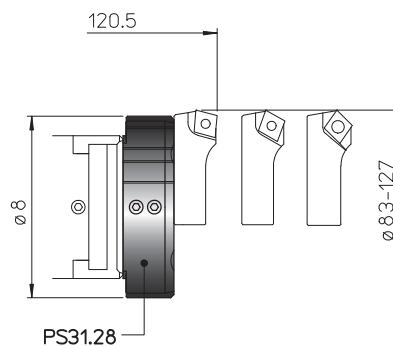
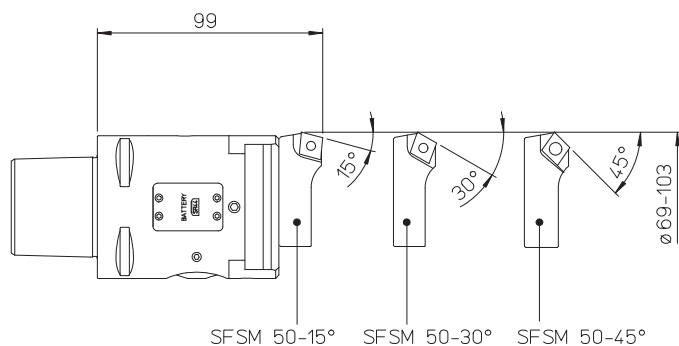
- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS 31
CW 32
 $\varnothing 72 \sim 125$



PS 31
 $\varnothing 72.5 \sim 129.5$

PS 31
 $\varnothing 69 \sim 127$

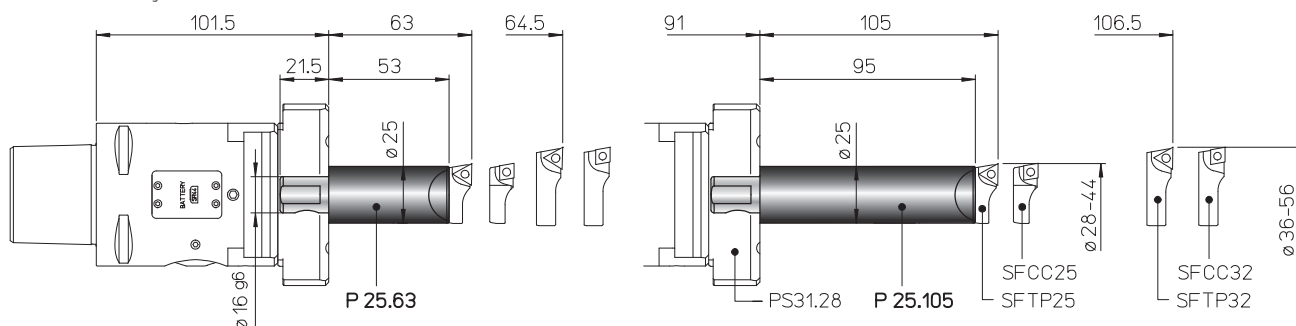


REF.	CODE	Kg.
PS 31.28 TR-ELETTRA 63	433028220802	0.3
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

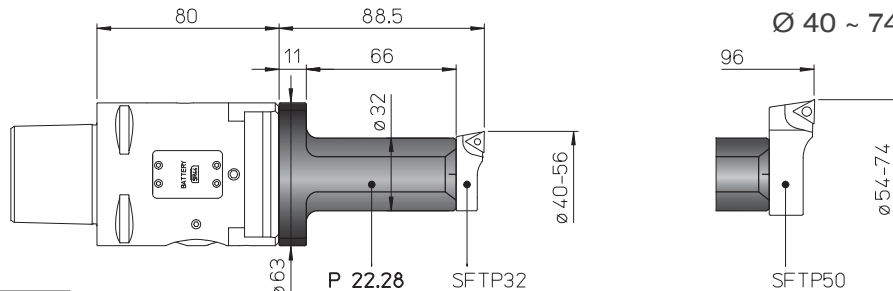
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

P 22

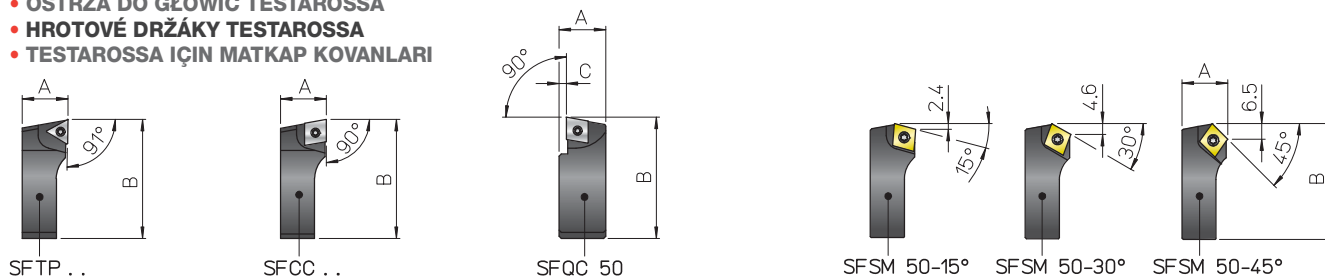
Ø 40 ~ 74



REF.	CODE	Kg.
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C					Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-	-	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	-	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	-	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

116

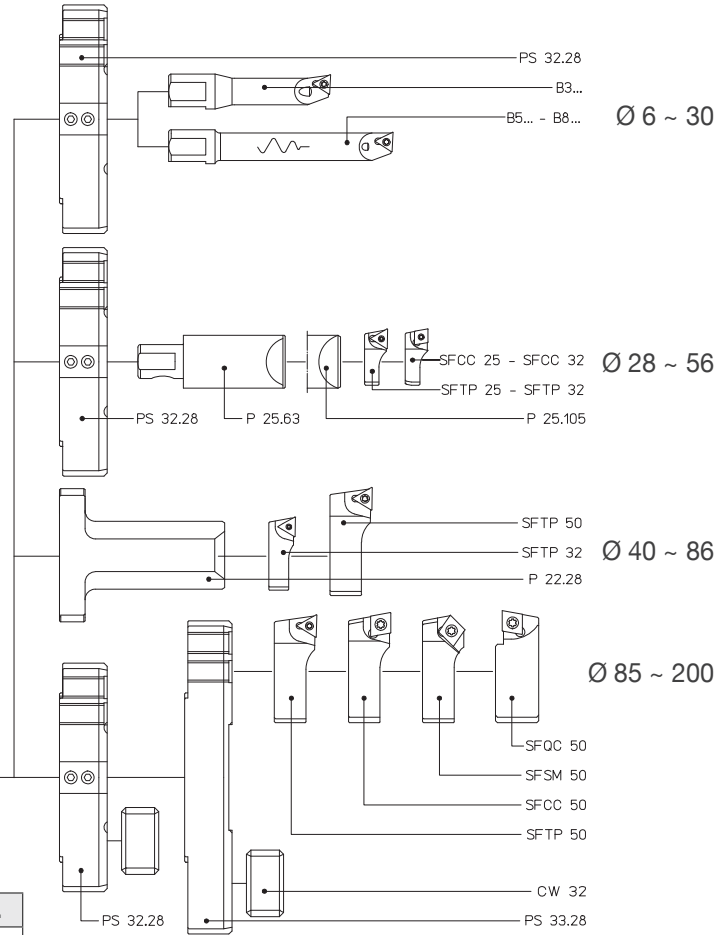
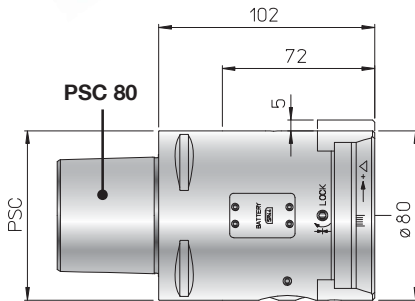
175

119

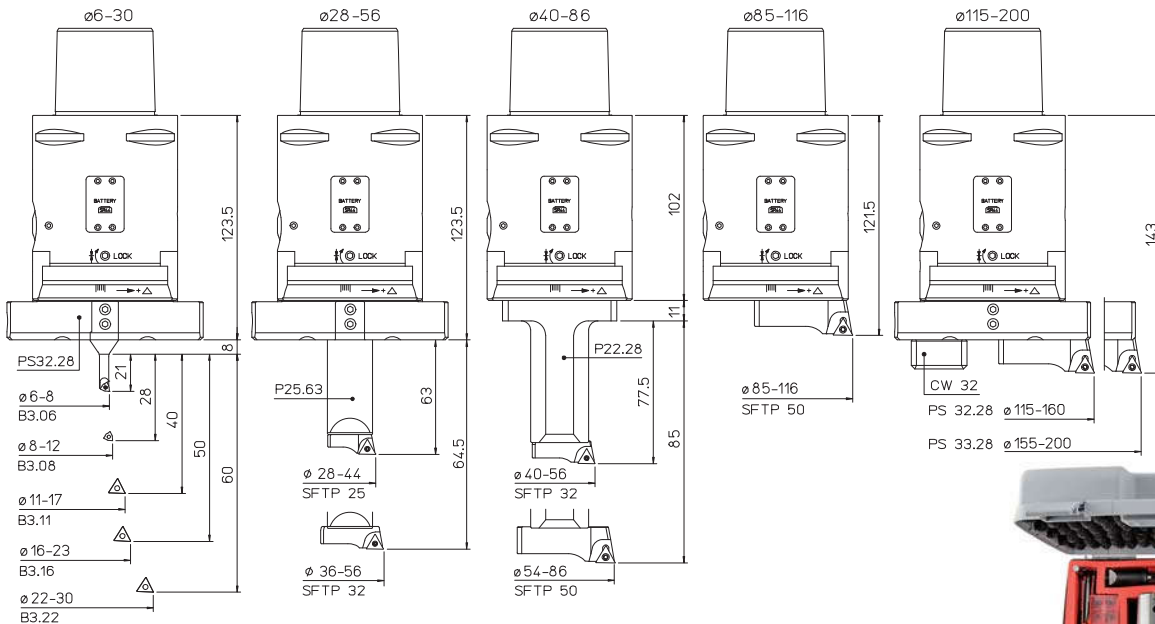




2 μm



REF.	CODE	Kg.
TR-ELETTRA 80 PSC 80	455258026080	4.4

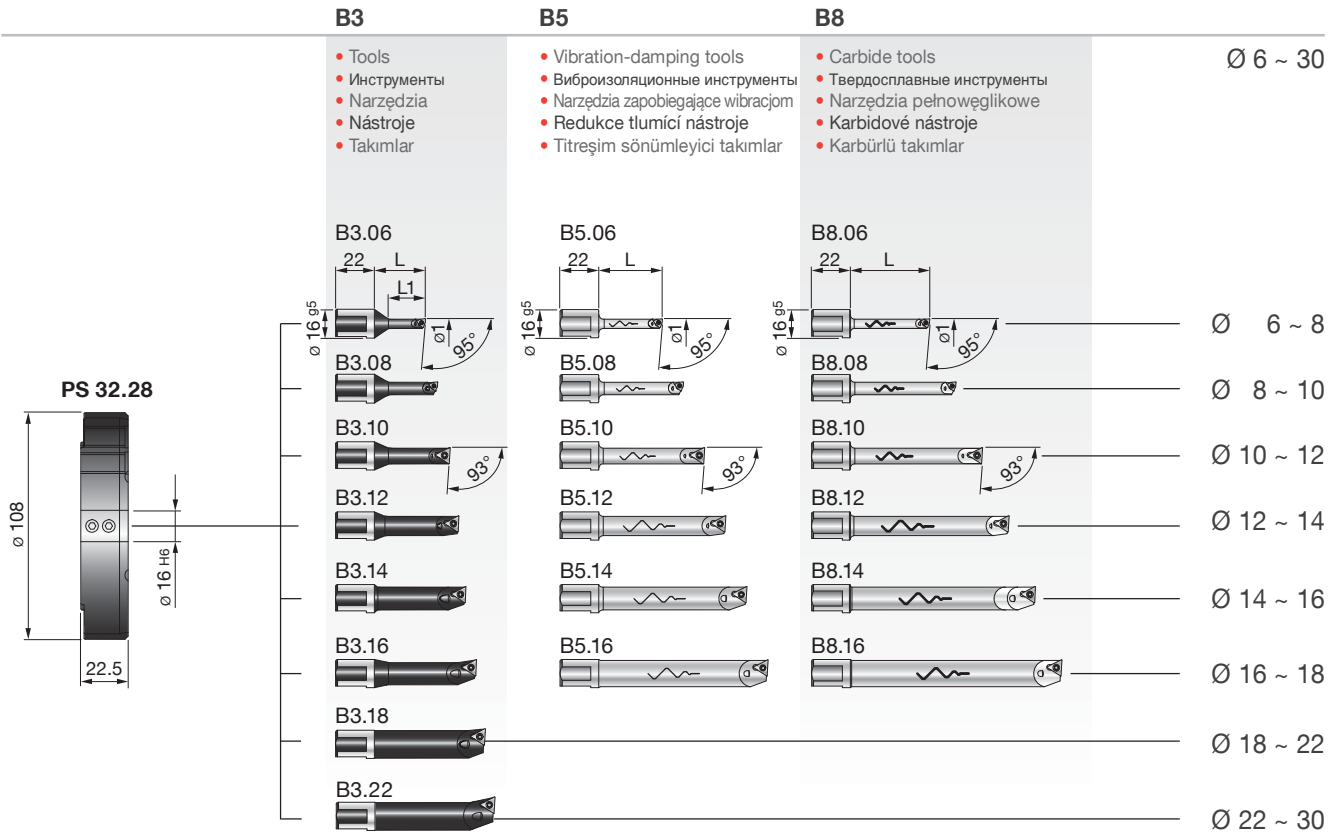


KIT K01
 $\varnothing 6 \sim 200$

- 1 TR-ELETTRA 80 PSC 80
- 1 P25.63 1 CW 32 1 B3.16 1 SFTP50
- 1 P22.28 1 B3.06 1 B3.22 5 TPGX 090202L DC100
- 1 PS 32.28 1 B3.08 1 SFTP25 1 TPGX 110302L DC100
- 1 PS 33.28 1 B3.11 1 SFTP32 2 WCGT 020102L DC100

REF.	CODE	\varnothing
KIT K01 TR-ELETTRA 80 PSC 80	655258026080	6 ~ 200





REF.	CODE	Kg.
PS 32.28 TR-ELETTRA 80	433028221082	0.5

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28			TS 211		0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-	-	TPGX 0902..	CS 250 T	TORX T08	0.07
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-					0.1
B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48				28		TS 211
B5.10	572010510105	10 ~ 12	60	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60				28		TS 211
B8.10	572010510108	10 ~ 12	75	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3



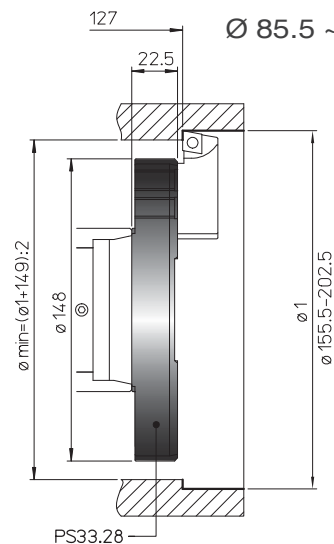
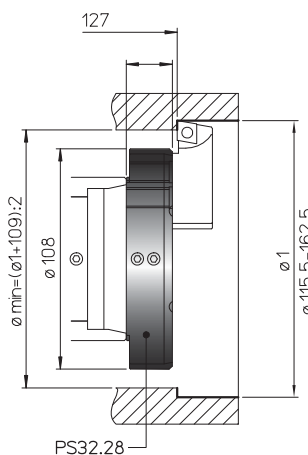
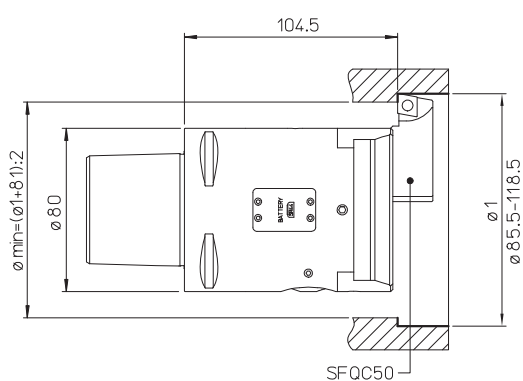
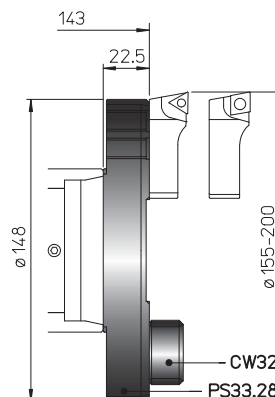
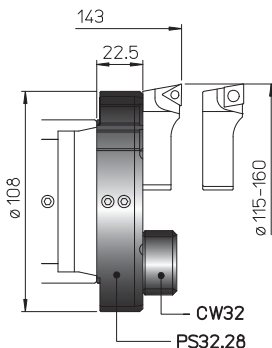
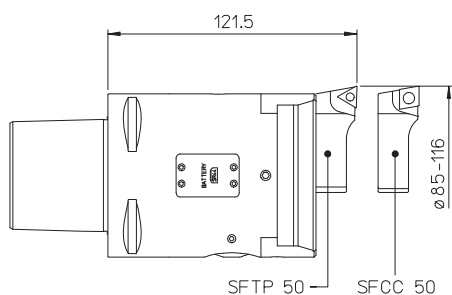
PSC 80 ISO 26623-1

- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

PS

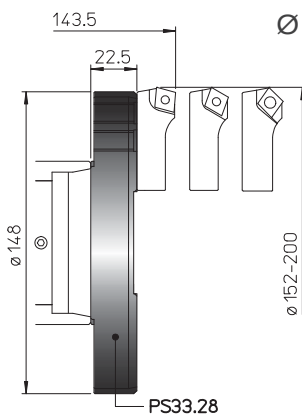
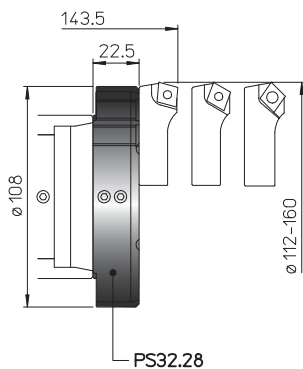
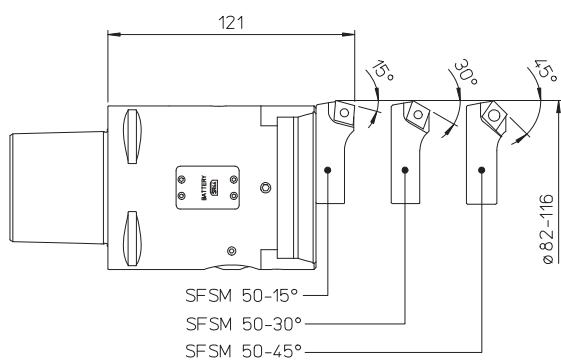
CW 32

Ø 85 ~ 200



PS

Ø 85.5 ~ 202.5



PS

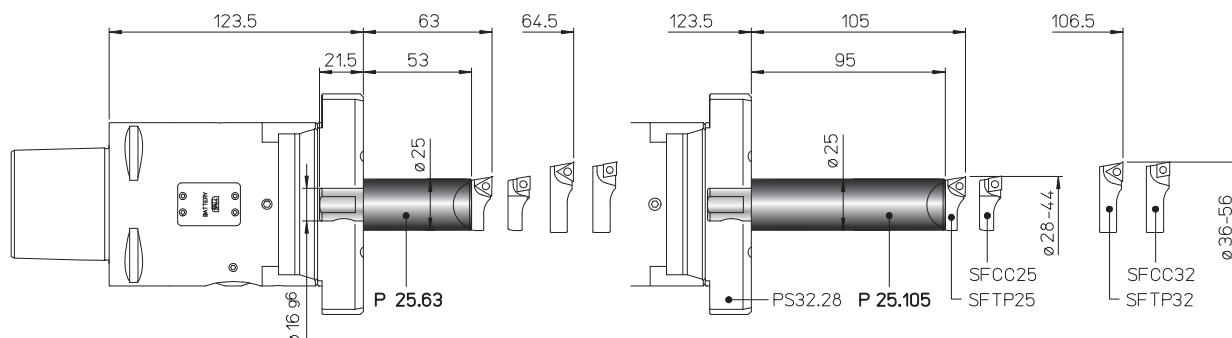
Ø 82 ~ 200

REF.	CODE	Kg.
PS 32.28 TR-ELETTRA 80	433028221082	0.5
PS 33.28 TR-ELETTRA 80	433028221482	0.6
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

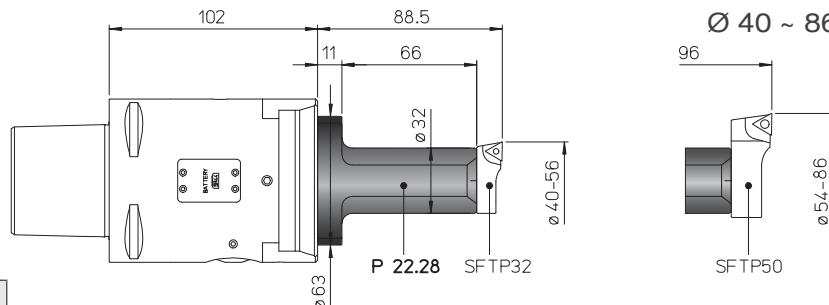
P 25
Ø 28 ~ 56



REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR..	435116251051	0.8

P 22

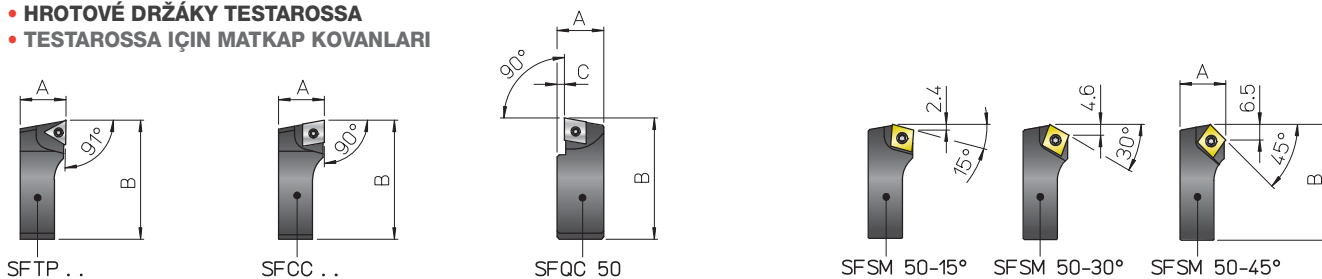
Ø 40 ~ 86



REF.	CODE	Kg.
P 22.28	433028220631	0.45

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



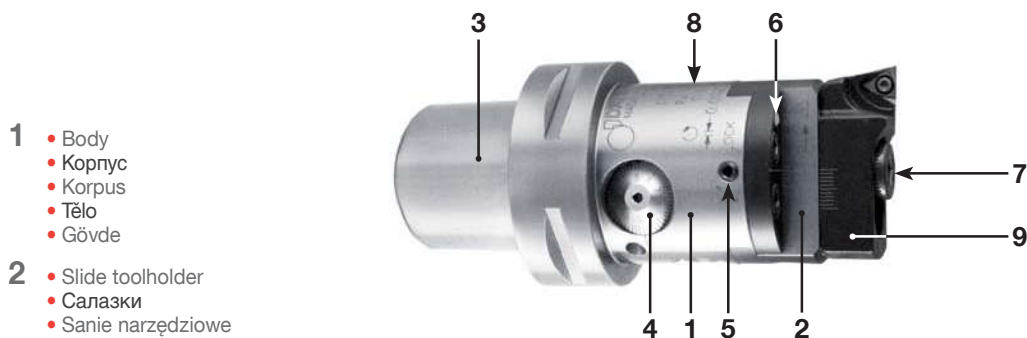
REF.	CODE	A	B	C					Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-					0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 25	470500525002	10	26.5	-		CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-					0.02
SFCC 50	470500550002	19	52	-		CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3		CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

116

175

119





- 1 • Body
• Корпус
• Korpus
• Tělo
• Gövde
- 2 • Slide toolholder
• Салазки
• Sanie narzędziowe
• Nástrojový držák šoupátka
• Kayar takim tutucu

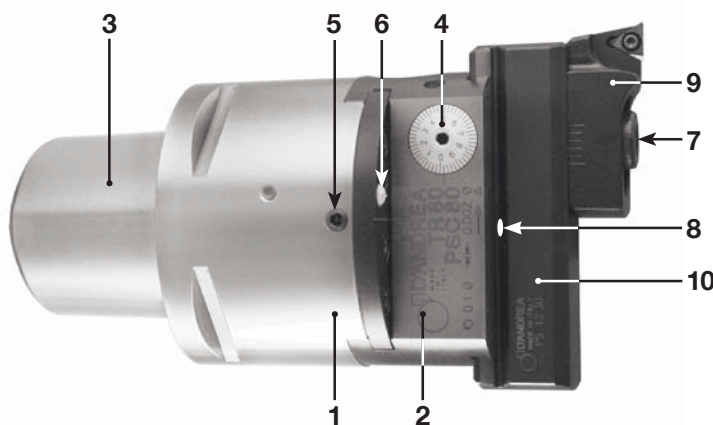
- 3 • PSC 40-50-63-80
• PSC 40-50-63-80
• PSC 40-50-63-80
• PSC 40-50-63-80
• PSC 40-50-63-80

- 4 • Micrometric vernier scale
• Микрометрический нониус
• Noniusz mikrometryczny
• Mikrometrické měřítko vernier
• Mikrometrik verniye skalası

- 5 • Slide clamp screw
• Зажимные винты салазок
• Śruba blokująca sanie narzędziowe
• Uprínací šroub šoupátka
• Sürgülü sıkma vidası

- 6 • Coolant outlet
• Выход хладагента
• Wylot cieczy chłodzącej
• Výstup chladicí kapaliny
• Soğutma sıvısı çıkışı

- 7 • Tools clamp screws
• Зажимные винты инструмента
• Śruba blokująca narzędzie
• Uprínací šrouby nástroje
• Takımların sıkma vidaları



2 μm



- 8 • Oiler
• Масленка
• Smarownica
• Olejnička
• Yağlayıcı

- 9 • Bit holder
• Кассета головки
• Wytaczak
• Hrotový držák
• Matkap kovani

- 10 • Tool holder
• Держатель
• Oprawka narzędziowa
• Nástrojový držák
• Takım tutucu

GB FEATURES. The TR-PSC heads in the D'Andrea Testarossa line have protective rustproof coating. High precision work to IT6 tolerance, with excellent surface finish, is achieved using TR-PSC boring heads. These are very sensitive and radial correction of 1 micron can be effected directly on the machine and easily read on the vernier scale.

RU ХАРАКТЕРИСТИКИ. Головки TR-PSC линии Testarossa D'Andrea оснащены защитным антикоррозийным покрытием. Головки TR-PSC обеспечивают высокую точность с допусками по классу IT6 с исключительной чистотой поверхности. Они очень чувствительны и радиальная коррекция в 1 микрон может быть осуществлена прямо на станке и легко считана по шкале нониуса.

PL CECHY. Głowice serii TR-PSC, pochodzące z nowej linii Testarossa firmy D'Andrea, posiadają dodatkową ochronną powłokę antykorozyjną. Głowice TR-PSC umożliwiają obróbkę o bardzo wysokiej dokładności w tolerancji IT6 i gwarantują uzyskanie doskonałej jakości powierzchni. Dokładność ustawcza głowic wynosi 1 mikrometr na promieniu. Wartość ta jest łatwa do odczytania bezpośrednio na noniuszu głowicy co umożliwia dokonywanie regulacji bezpośrednio na obrabiarce.

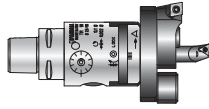
CZ VLASTNOSTI. Hlavy TR-PSC v řadě Testarossa společnosti D'Andrea mají rezuzvdornou povrchovou úpravu. Pomocí vyvrtávacích hlav TR-PSC se docílí vysoce přesné obrábění dle tolerance IT6 s vynikající finální úpravou povrchu. Jsou velmi citlivé a radiální korekci 1 mikronu lze provést přímo na stroji a snadno odečíst na měřítku vernier.

TR ÖZELLİKLER. D'Andrea Testarossa ürün gamındaki TR-PSC kafaları, koruyucu paslanmaz kaplamaya sahiptir. TR-PSC matkap başları kullanılarak IT6 toleransa kadar yüksek hassasiyetli çalışma ve mükemmel yüzey bitirme gerçekleştirilir. Bunlar son derece hassastırlar ve 1 mikron radyal düzeltme doğrudan makine üzerinde gerçekleştirilip verniye skalasında kolayca okunabilir.sul raggio, facilmente leggibile sul nonio ed eseguibile anche in macchina.



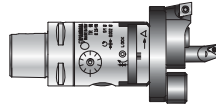
TR50 - PSC40

Ø 2.5 ~ 108



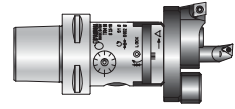
TR50 - PSC50

Ø 2.5 ~ 108



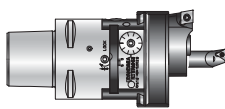
TR50 - PSC63

Ø 2.5 ~ 108



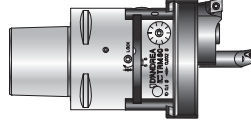
TR63 - PSC63

Ø 6 ~ 125



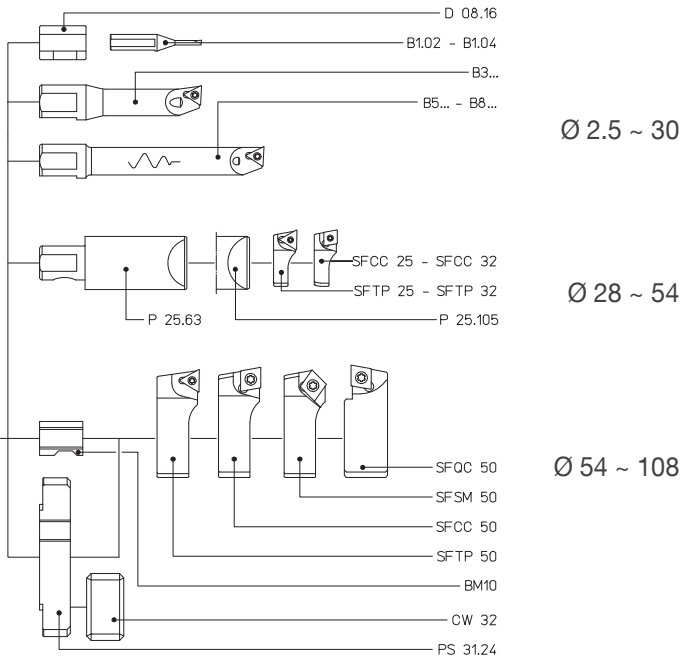
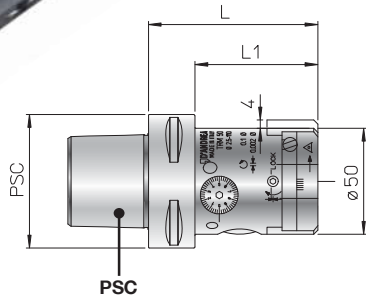
TR80 - PSC80

Ø 6 ~ 160



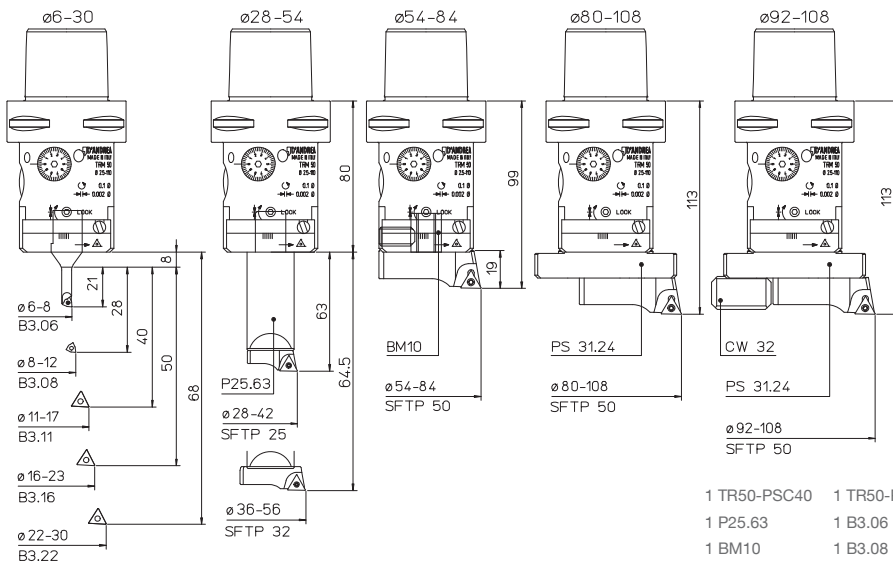


2 µm



PSC	REF.	CODE	L	L1	kg
40	TR 50 - PSC 40	455055026040	80	60	0.9
50	TR 50 - PSC 50	455055026050			1.1
63	TR 50 - PSC 63	455055026060		58	1.3

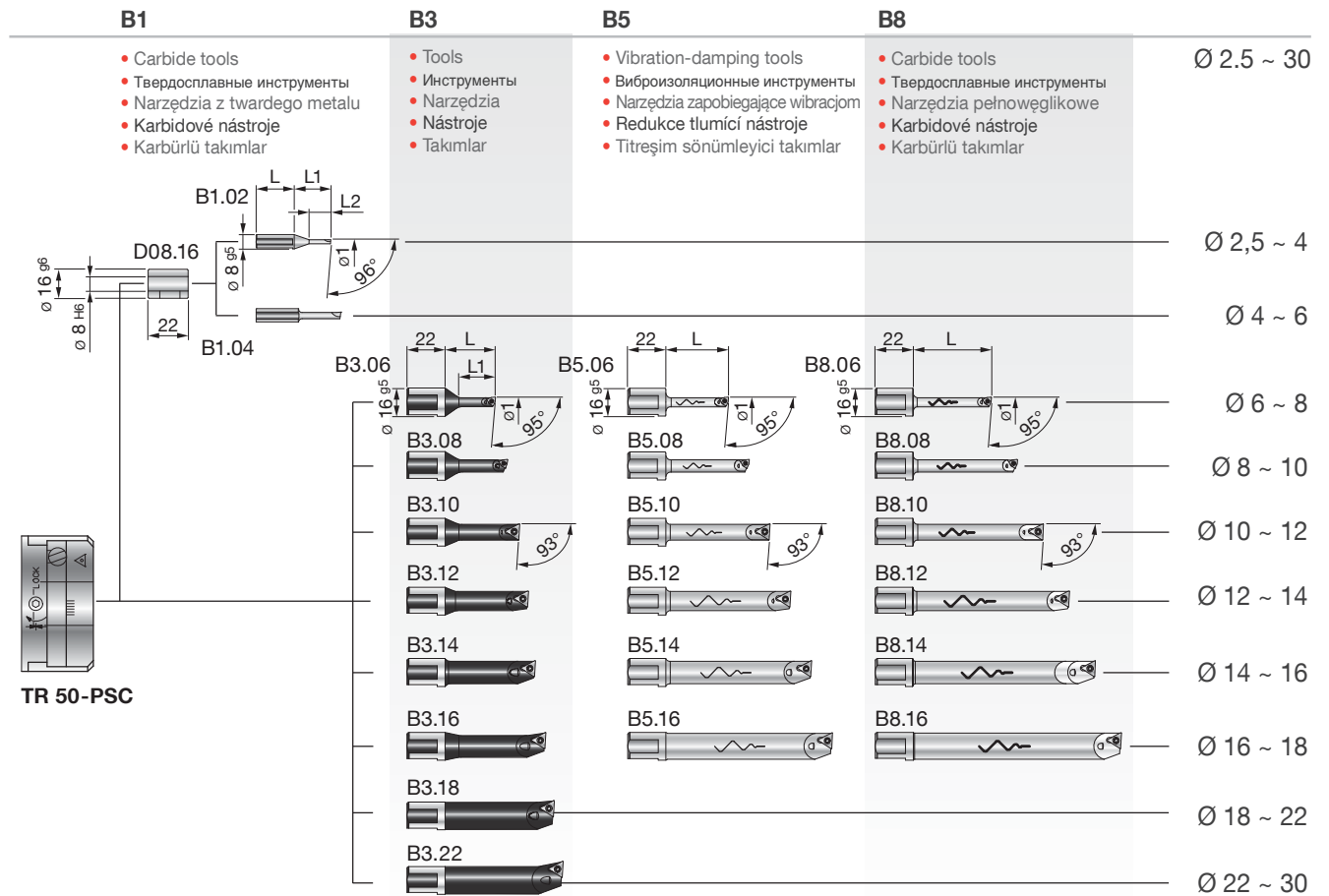
KIT K01 Ø 6 ~ 108



- | | | | |
|--------------|--------------|--------------|----------------------|
| 1 TR50-PSC40 | 1 TR50-PSC50 | 1 TR50-PSC63 | |
| 1 P25.63 | 1 B3.06 | 1 B3.22 | |
| 1 BM10 | 1 B3.08 | 1 SFTP25 | 1 TPGX 110302L DC100 |
| 1 PS 31.24 | 1 B3.11 | 1 SFTP32 | 5 TPGX 090202L DC100 |
| 1 CW 32 | 1 B3.16 | 1 SFTP50 | 2 WCGT 020102L DC100 |

REF.	CODE	Ø
KIT K01 TR 50 - PSC40	655060410501	6 ~ 108
KIT K01 TR 50 - PSC50	655060510501	
KIT K01 TR 50 - PSC63	655060610501	





REF.	CODE	Kg.
D08.16	200560116082	0.02

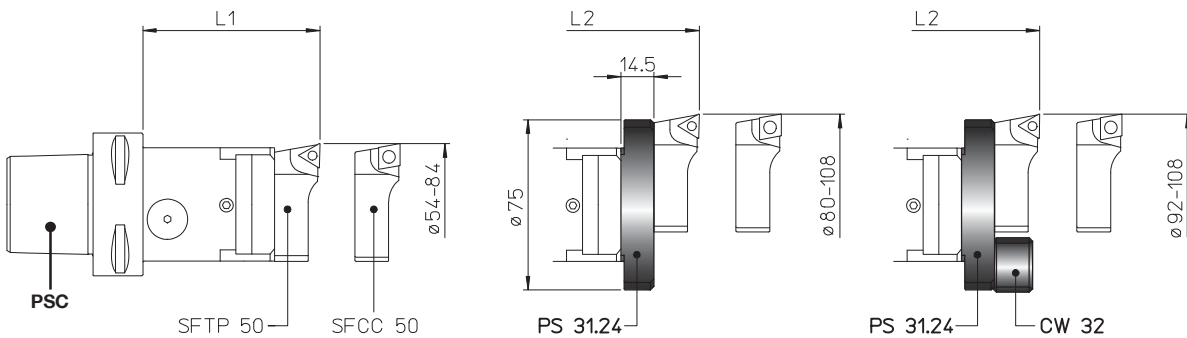
REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⊖	⊖	⊖	⊖	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28					0.04
B3.10	572010510001	10 ~ 12	43	35	-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40					0.055
B3.12	572010512001	12 ~ 14	48	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-					0.1
B3.18	572010518001	18 ~ 22	63	-					
B3.22	572010522001	22 ~ 30	68	-					

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						0.09
B5.10	572010510105	10 ~ 12	60	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B5.12	572010512105	12 ~ 14	72					0.2	
B5.14	572010514105	14 ~ 16	84					0.3	
B5.16	572010516105	16 ~ 18	96						

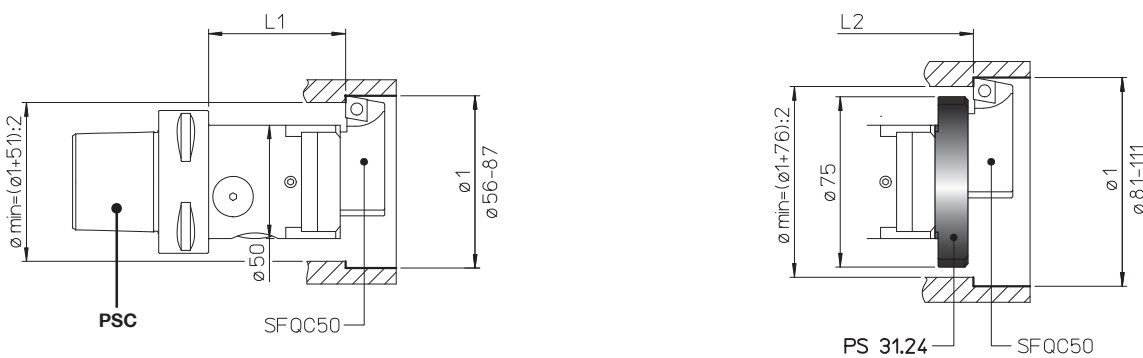
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						0.08
B8.10	572010510108	10 ~ 12	75	-	TPGX 0902..	CS 250 T	TORX T08	0.1	
B8.12	572010512108	12 ~ 14	90					0.2	
B8.14	572010514108	14 ~ 16	105					0.3	
B8.16	572010516108	16 ~ 18	120						

- TOOLHOLDERS FOR TESTAROSSA
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- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR



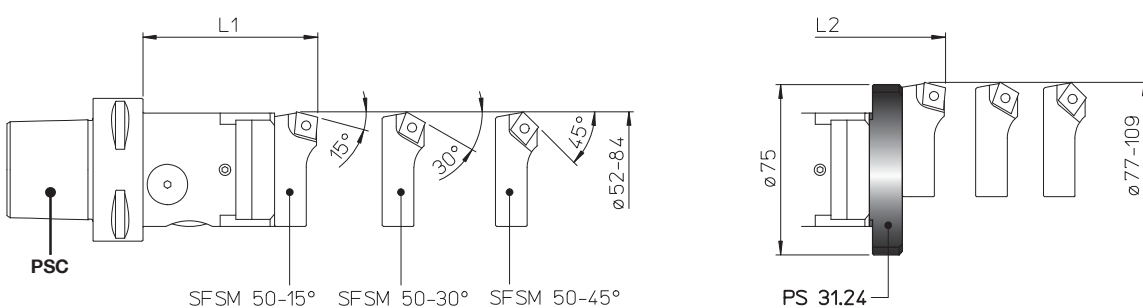
PS 31
CW 32
Ø 54~ 108

PSC	REF.	L1	L2
40	TR 50 - PSC 40	79	93
50	TR 50 - PSC 50		
63	TR 50 - PSC 63	77	91



PS 31
Ø 56 ~ 111

PSC	REF.	L1	L2
40	TR 50 - PSC 40	62	76
50	TR 50 - PSC 50		
63	TR 50 - PSC 63	60	74



PS 31
Ø 52 ~ 109

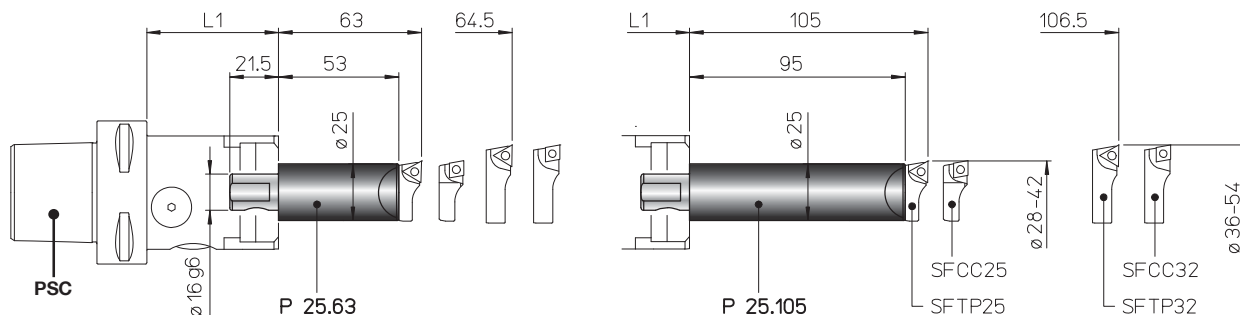
PSC	REF.	L1	L2
40	TR 50 - PSC 40	79	93
50	TR 50 - PSC 50		
63	TR 50 - PSC 63	77	91

REF.	CODE	Kg.
PS 31.24 TR..50	433024140751	0.19
CW 32	392011003201	0.07



- TOOLHOLDERS FOR TESTAROSSA
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P 25
Ø 28 ~ 54

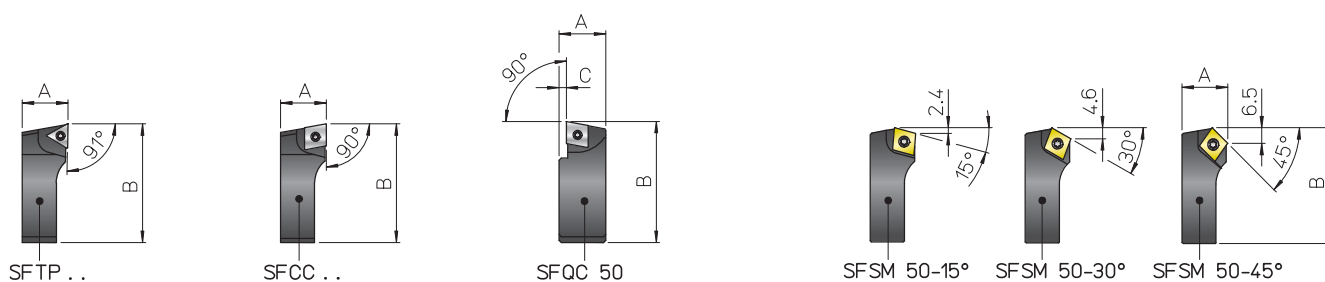


PSC	REF.	L1
40	TR 50 - PSC 40	60
50	TR 50 - PSC 50	
63	TR 50 - PSC 63	58

REF.	CODE	Kg.
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

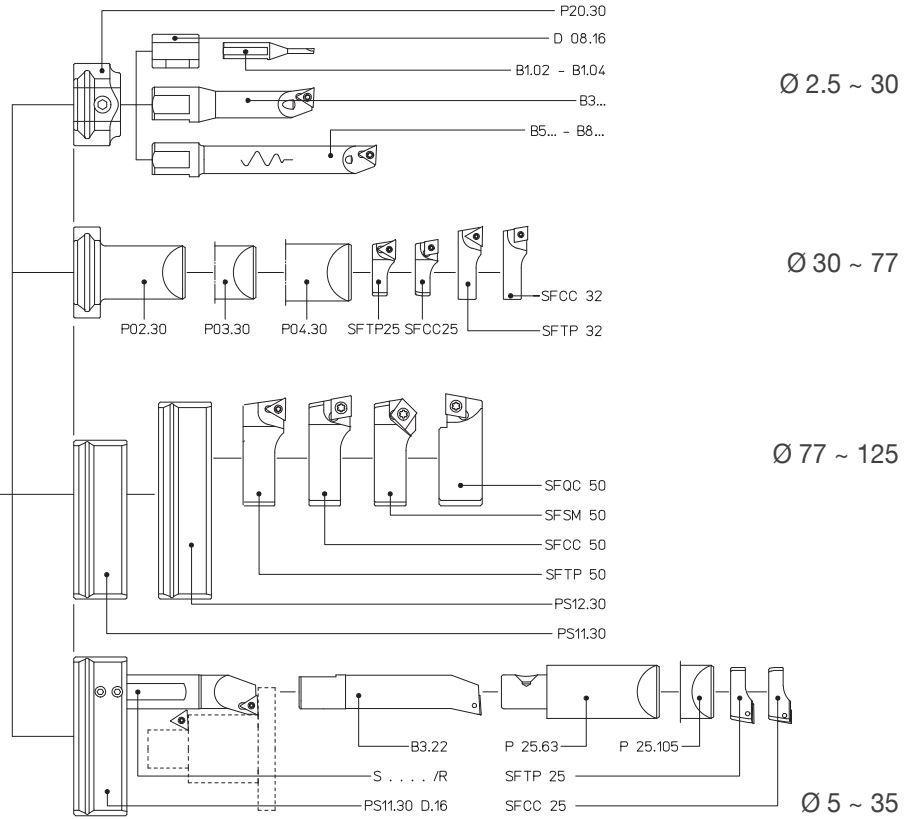
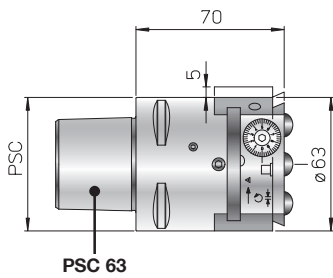
SF



REF.	CODE	A	B	C	△	□	⊥	⌘	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-		0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T		0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	-	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

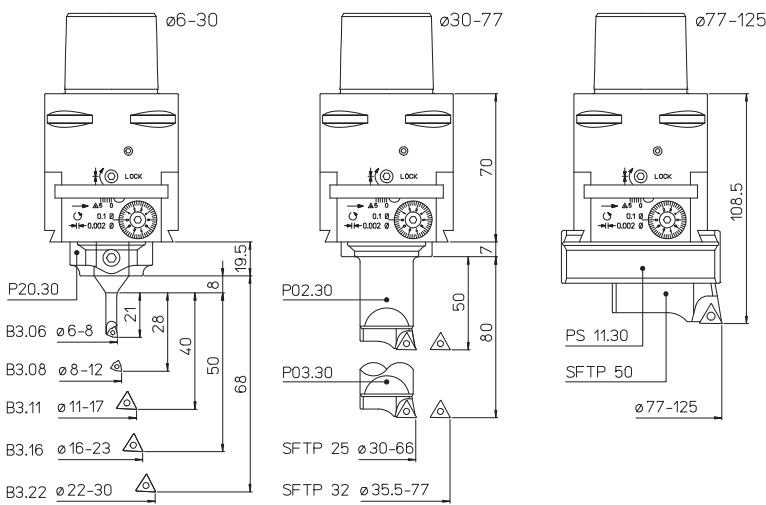


2 μm



REF.	CODE	kg
TR 63 - PSC 63	455056326060	1.5

KIT K01
 $\varnothing 6 \sim 125$



- 1 TR 63 - PSC 63
- 1 P20.30 1 P02.30 1 SFTP25 1 B3.06
- 1 P11.30 1 P03.30 1 SFTP32 1 B3.08
- 5 TPGX 090202L DC100 1 SFTP50 1 B3.11
- 1 TPGX 110302L DC100
- 1 B3.16
- 2 WCGT 020102L DC100
- 1 B3.22

REF.	CODE	\varnothing
KIT K01 TR 63 - PSC63	655060610631	6 ~ 125

252

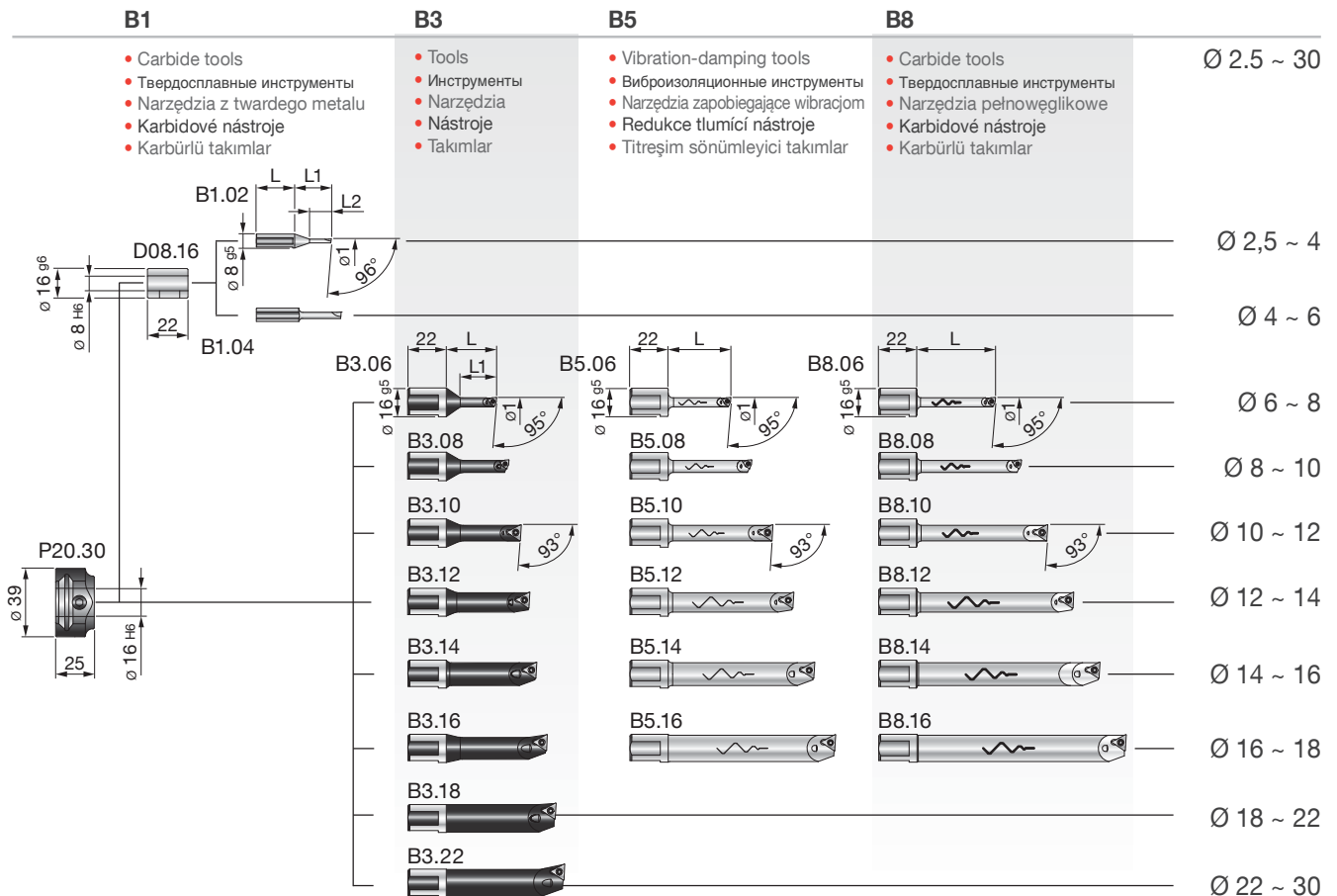
119

174

116

241





REF.	CODE	Kg.	REF.	CODE	Kg.
P20.30	431030160300	0.2	D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	△	△	△	△	Kg.		
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035		
B3.08	572010508001	8 ~ 10	36	28					TS 211	0.04	
B3.10	572010510001	10 ~ 12	43	35			-	TPGX 0902..	CS 250 T	TORX T08	0.05
B3.11	572010511001	11 ~ 13	48	40							0.055
B3.12	572010512001	12 ~ 14	42	42	0.06						
B3.14	572010514001	14 ~ 16	52	50	0.07						
B3.16	572010516001	16 ~ 18	58	-	-	-	-	-	0.1		
B3.18	572010518001	18 ~ 22	63	-					0.1		
B3.22	572010522001	22 ~ 30	68	-					0.1		

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						TS 211
B5.10	572010510105	10 ~ 12	60		-	TPGX 0902..	CS 250 T	TORX T08	0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3

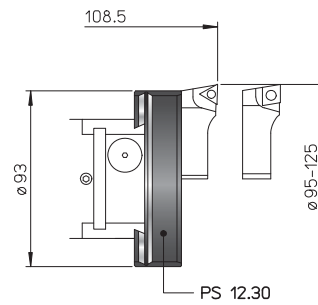
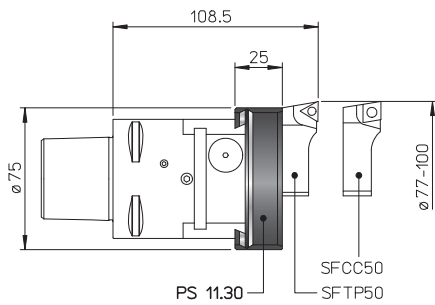
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						TS 211
B8.10	572010510108	10 ~ 12	75	-	-	TPGX 0902..	CS 250 T	TORX T08	0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3

ISO 26623-1

- TOOLHOLDERS FOR TESTAROSSA
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- TESTAROSSA İÇİN TAKIM TUTUCULAR

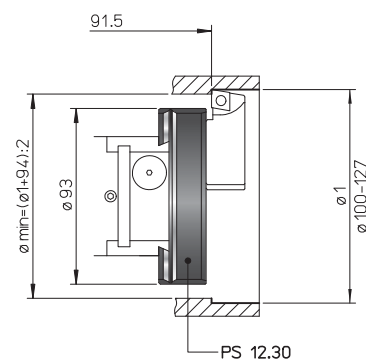
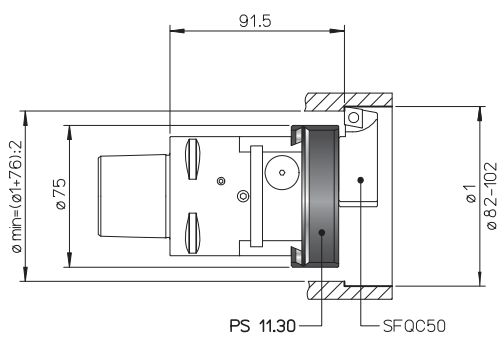
PS

Ø 77 ~ 125



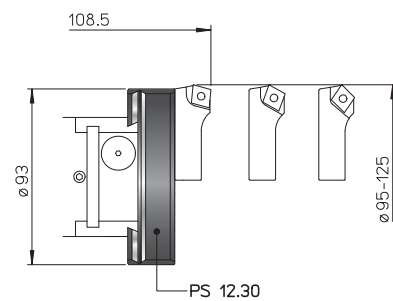
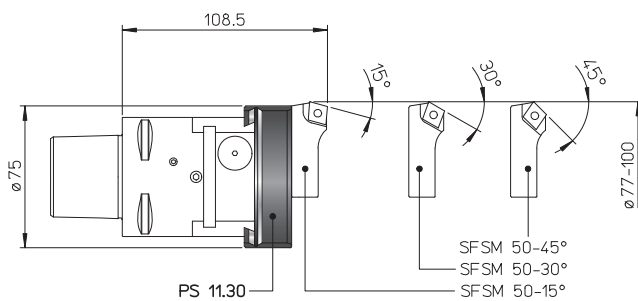
PS

Ø 82 ~ 127



PS

Ø 77 ~ 125



REF.	CODE	Kg.
PS 11.30	433030260750	0.4
PS 12.30	433030260950	0.5

119



175

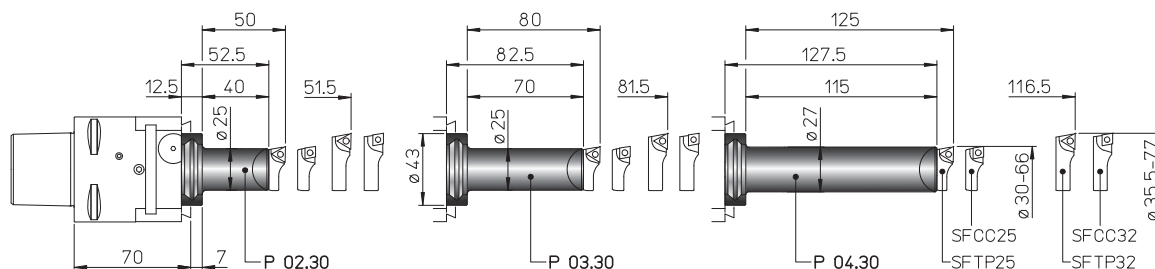


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- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

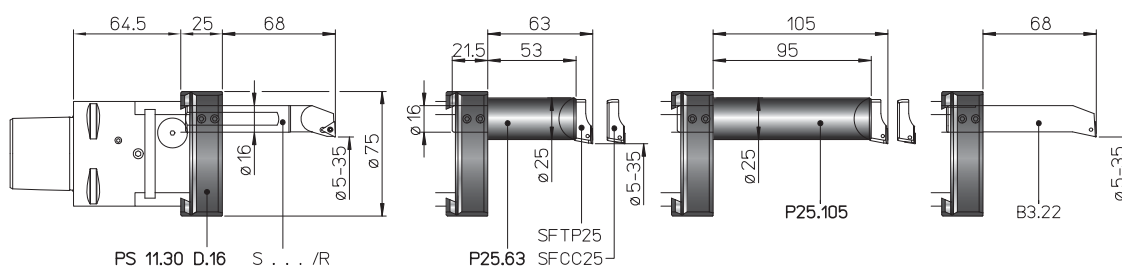
P
Ø 30 ~ 77



REF.	CODE	Kg.
P02.30	431030250400	0.3
P03.30	431030250700	0.4
P04.30	431030251150	0.7

- TESTAROSSA EXTERNAL TURNING
- TESTAROSSA ВНЕШНЕГО ОБТАЧИВАНИЯ
- TESTAROSSA TROCZENIE ZEWNĘTRZNE
- EXTERNÍ SOUSTRUŽENÍ TESTAROSSA
- TESTAROSSA DIŞ TORNALAMA

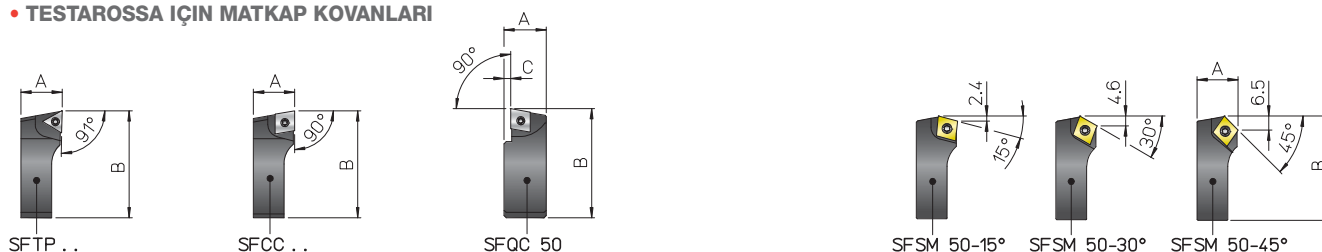
PS + P25
Ø 5 ~ 35



REF.	CODE	Kg.
PS 11.30 D.16	433030260755	0.4
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

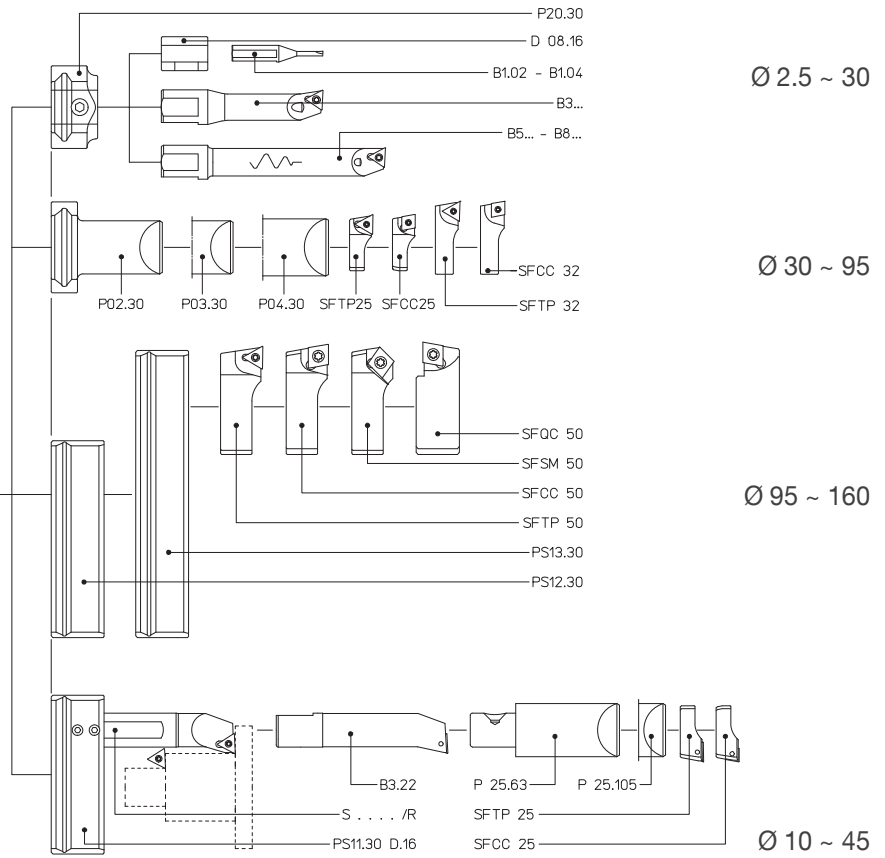
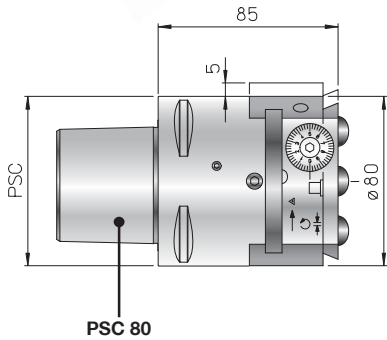
SF



REF.	CODE	A	B	C	⚠	⊖	⚙	🔩	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	-	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	-	-	TORX T08	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

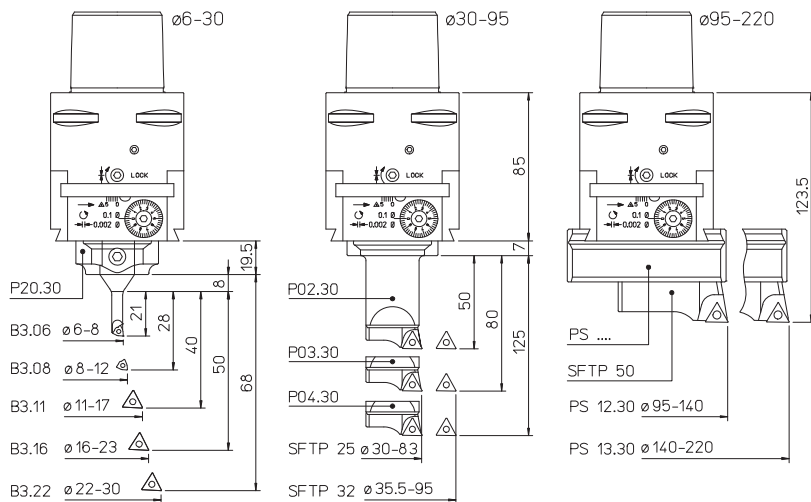


2 µm



REF.	CODE	kg
TR 80 - PSC 80	455058026080	2.5

KIT K01
Ø 6 ~ 220

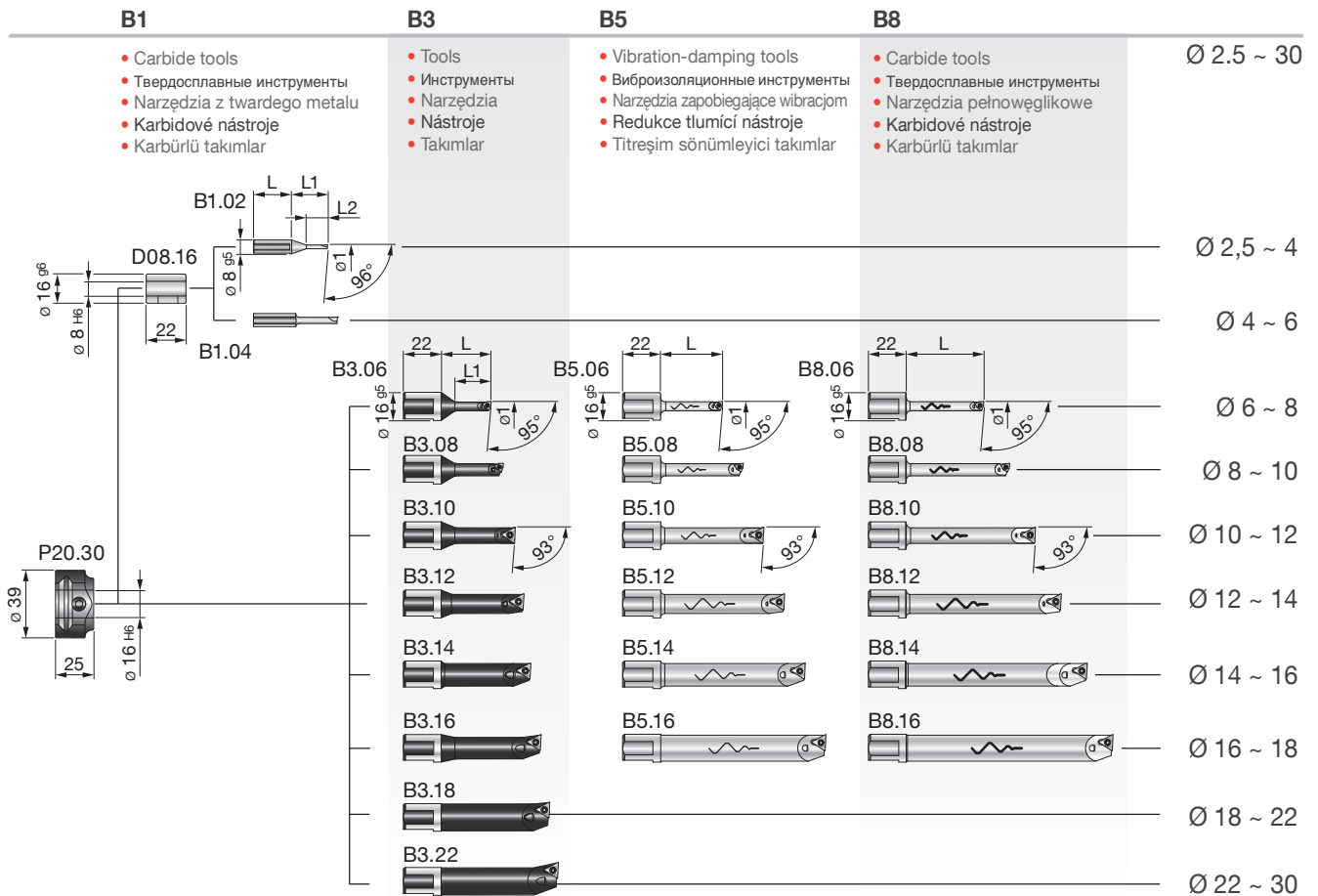


- 1 TR 80 - PSC 80
- 1 P20.30 1 P02.30 1 SFTP25 1 B3.06
- 1 PS12.30 1 P03.30 1 SFTP32 1 B3.08
- 1 PS13.30 1 P04.30 1 SFTP50 1 B3.12
- 5 TPGX 090202L DC100 1 B3.16
- 1 TPGX 110302L DC100 1 B3.22
- 2 WCGT 020102L DC100

REF.	CODE	Ø
KIT K01 TR 80 - PSC80	655060810801	6 ~ 220

252 119 174 116 241





B1

- Carbide tools
- Твердосплавные инструменты
- Narzędzia z twardego metalu
- Karbidové nástroje
- Karbürli takımlar

B3

- Tools
- Инструменты
- Narzędzia
- Nástroje
- Takımlar

B5

- Vibration-damping tools
- Виброизоляционные инструменты
- Narzędzia zapobiegające wibracjom
- Redukce tlumící nástroje
- Titreşim sönümleyici takımlar

B8

- Carbide tools
- Твердосплавные инструменты
- Narzędzia pełnowęglkowe
- Karbidové nástroje
- Karbürli takımlar

Ø 2.5 ~ 30

Ø 2,5 ~ 4

Ø 4 ~ 6

Ø 6 ~ 8

Ø 8 ~ 10

Ø 10 ~ 12

Ø 12 ~ 14

Ø 14 ~ 16

Ø 16 ~ 18

Ø 18 ~ 22

Ø 22 ~ 30

REF.	CODE	Kg.
P20.30	431030160300	0.2

REF.	CODE	Kg.
D08.16	200560116082	0.02

REF.	CODE	Ø1	L	L1	L2	Kg.
B1.02	572010502001	2.5 ~ 4	22	21	12.5	0.02
B1.04	572010504001	4 ~ 6	24	24	-	

REF.	CODE	Ø1	L	L1	⚠	⚠	🔧	🔧	Kg.
B3.06	572010506001	6 ~ 8	29	21	WCGT 0201..	-	TS 21	TORX T06	0.035
B3.08	572010508001	8 ~ 10	36	28					0.04
B3.10	572010510001	10 ~ 12	43	35					0.05
B3.11	572010511001	11 ~ 13	48	40	-	TPGX 0902..	CS 250 T	TORX T08	0.055
B3.12	572010512001	12 ~ 14	42	42					0.06
B3.14	572010514001	14 ~ 16	52	50					0.07
B3.16	572010516001	16 ~ 18	58	-					0.07
B3.18	572010518001	18 ~ 22	63	-					0.1
B3.22	572010522001	22 ~ 30	68	-	-	-	-	0.1	

B5.06	572010506105	6 ~ 8	36	-	WCGT 0201..	-	TS 21	TORX T06	0.075
B5.08	572010508105	8 ~ 10	48						0.09
B5.10	572010510105	10 ~ 12	60						0.1
B5.12	572010512105	12 ~ 14	72						0.2
B5.14	572010514105	14 ~ 16	84						0.2
B5.16	572010516105	16 ~ 18	96						0.3

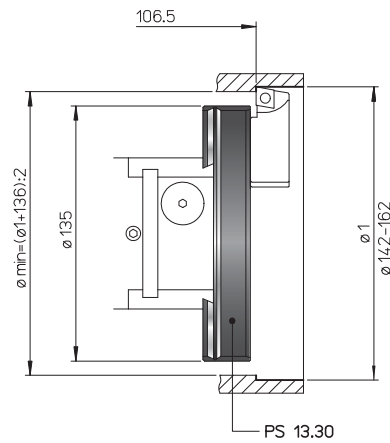
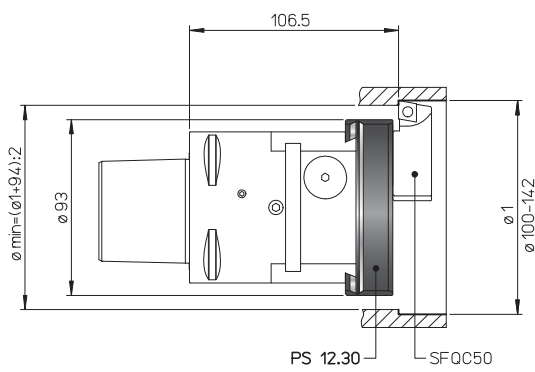
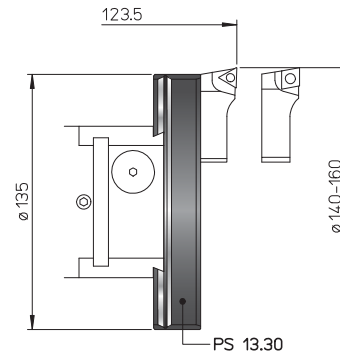
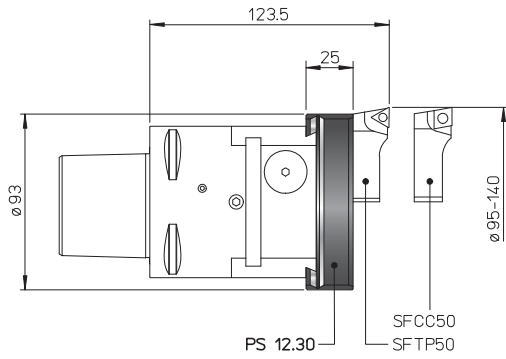
B8.06	572010506108	6 ~ 8	45	-	WCGT 0201..	-	TS 21	TORX T06	0.065
B8.08	572010508108	8 ~ 10	60						0.08
B8.10	572010510108	10 ~ 12	75						0.1
B8.12	572010512108	12 ~ 14	90						0.2
B8.14	572010514108	14 ~ 16	105						0.2
B8.16	572010516108	16 ~ 18	120						0.3

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- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

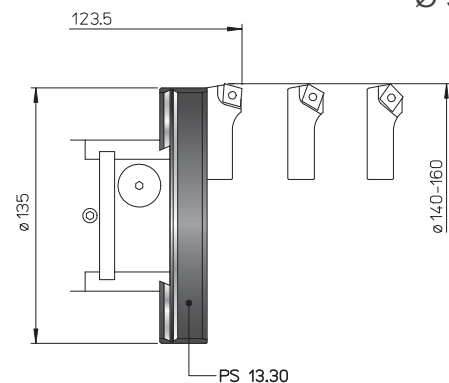
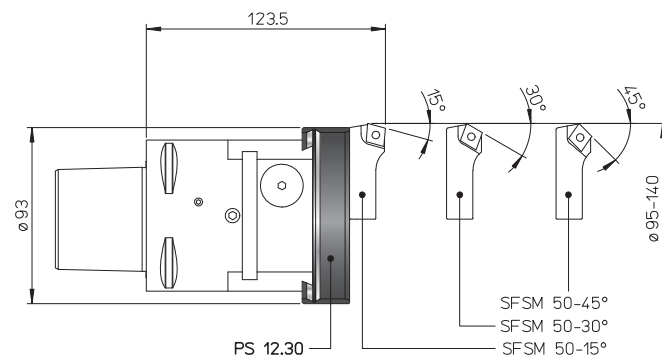
PS

Ø 95 ~ 160



PS

Ø 100 ~ 162



PS

Ø 95 ~ 160

REF.	CODE	Kg.
PS 12.30	433030260950	0.5
PS 13.30	433030261400	0.7

119



175

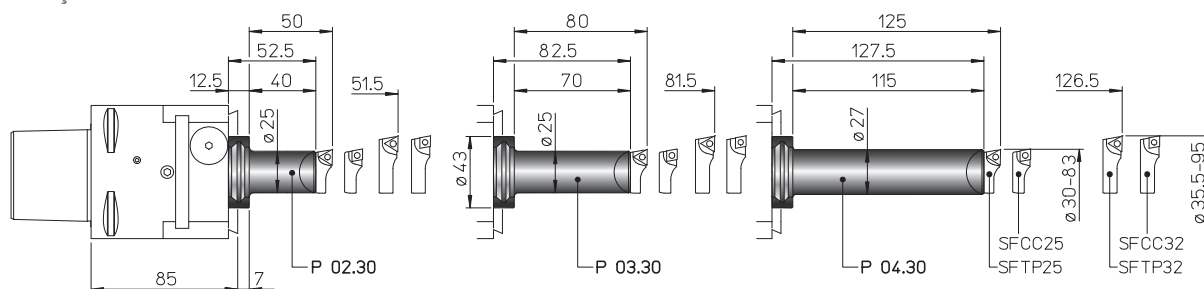


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- TOOLHOLDERS FOR TESTAROSSA
- ДЕРЖАТЕЛИ ДЛЯ ГОЛОВКИ TESTAROSSA
- OPRAWKI NARZĘDZIOWE DO GŁOWIC TESTAROSSA
- NÁSTROJOVÉ DRŽÁKY PRO TESTAROSSA
- TESTAROSSA İÇİN TAKIM TUTUCULAR

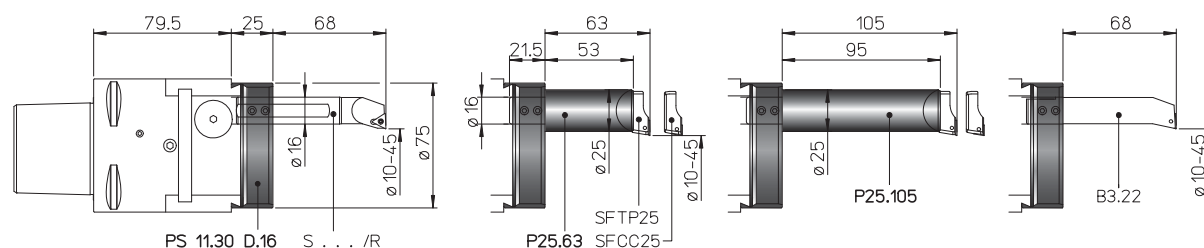
P
Ø 30 ~ 95



REF.	CODE	Kg.
P02.30	431030250400	0.3
P03.30	431030250700	0.4
P04.30	431030251150	0.7

- TESTAROSSA EXTERNAL TURNING
- TESTAROSSA ВНЕШНЕГО ОБТАЧИВАНИЯ
- TESTAROSSA TOCZENIE ZEWNĘTRZNE
- EXTERNÍ SOUSTRUŽENÍ TESTAROSSA
- TESTAROSSA DIŞ TORNALAMA

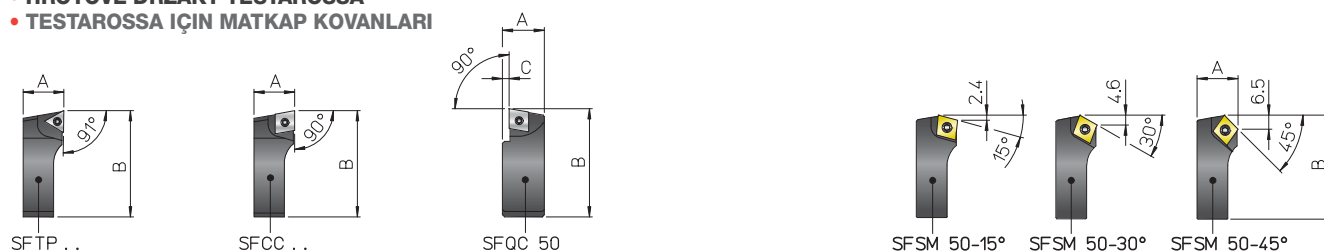
PS + P25
Ø 10 ~ 45



REF.	CODE	Kg.
PS 11.30 D.16	433030260755	0.4
P25.63 TR...	435116250631	0.5
P25.105 TR...	435116251051	0.8

- BIT-HOLDERS FOR TESTAROSSA
- КАССЕТЫ ДЛЯ ГОЛОВКИ TESTAROSSA
- OSTRZA DO GŁOWIC TESTAROSSA
- HROTOVÉ DRŽÁKY TESTAROSSA
- TESTAROSSA İÇİN MATKAP KOVANLARI

SF



REF.	CODE	A	B	C	△	□	⊥	⊥	Kg.
SFTP 25	470500525001	10	26.5	-	TPGX 0902..	-	CS 250T	TORX T08	0.01
SFTP 32	470500532001	11.5	34.5	-	-	-	CS 300890T	TORX T08	0.02
SFTP 50	470500550001	19	52	-	TPGX 1103..	-	CS 300890T	TORX T15	0.08
SFCC 25	470500525002	10	26.5	-	-	CCGT 0602..	TS 25	TORX T08	0.01
SFCC 32	470500532002	11.5	34.5	-	-	CCGT 09T3..	TS 4	TORX T15	0.02
SFCC 50	470500550002	19	52	-	-	CCGT 09T3..	TS 4	TORX T15	0.08
SFQC 50	470500550062	20.5	53	3	-	CCMT 09T3..	TS 4	TORXT15	0.1
SFSM 50-15°	470500550011	19	50.5	-	-	CCMT 09T3..	TS 4	TORXT15	0.07
SFSM 50-30°	470500550013								
SFSM 50-45°	470500550015								

- MILL HOLDER
- ОПРАВКА ДЛЯ ФРЕЗ
- OPRAWKA FREZARSKA
- FRÉZOVAČÍ DRŽÁK
- FREZE TUTUCU

PSC-PF
ISO 26623-1

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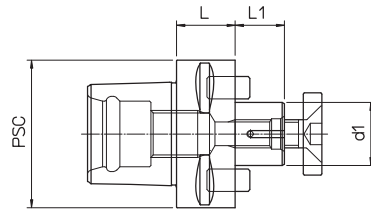
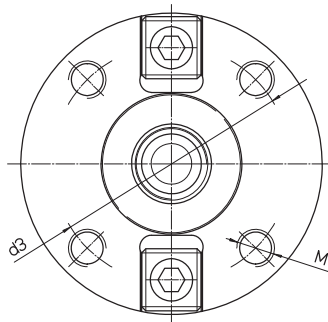
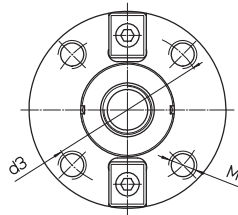


fig.1

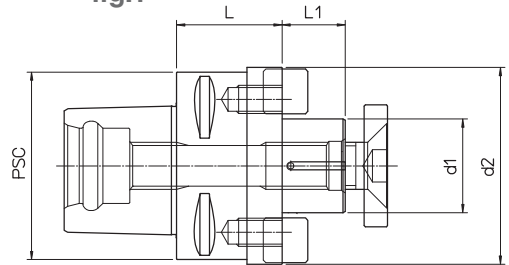


fig.2

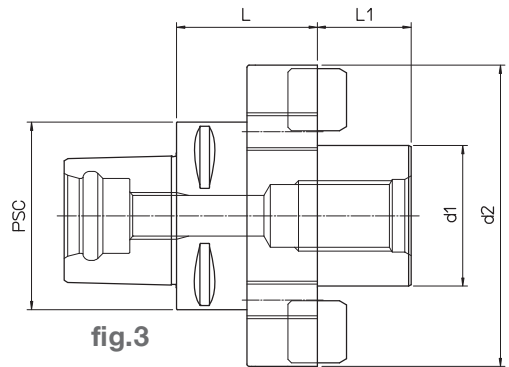


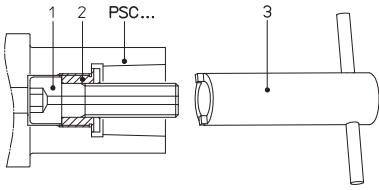
fig.3

PSC	REF.	CODE	d1	d2	d3	M	L	L1	kg	fig.
40	PSC 40 PF22.25	71PSC-040PF2202	22	-	-	-	25	19	0.3	1
50	PSC 50 PF22.25	71PSC-050PF2202							0.5	
	PSC 50 PF27.25	71PSC-050PF2702	0.6							
63	PSC 63 PF27.25	71PSC-063PF2702	0.8							
	PSC 63 PF32.25	71PSC-063PF3202	0.9							
80	PSC 80 PF32.30	71PSC-080PF3203	32					30	1.8	
	PSC 80 PF40.45	71PSC-080PF4004	40	84	66.7	M12	45	27	2.4	2
	PSC 80 PF60.60	71PSC-080PF6006	60	128.5	101.6	M16	60	40	5.2	3



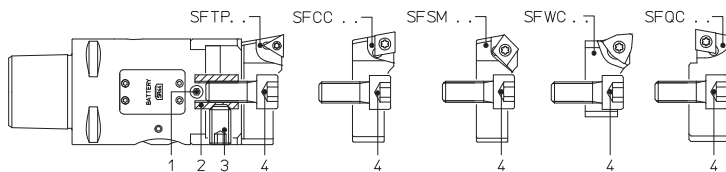
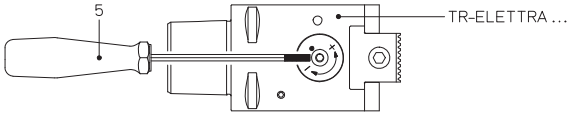
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

PSC



PSC	CODE 1	CODE 2	CODE 3
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50	200100151655	201032515003	101501402400
63	200101152065	201033015016	101501403000
80			

TR-ELETTRA



REF.	CODE 1	CODE 2	CODE 3	CODE 4	CODE 5
TR-ELETTRA 50	100238060010	201041015002	100231100016	100051100025	101500800300
TR-ELETTRA 63		-	-	100051100020	
TR-ELETTRA 80	200100150614	-	-	100051100025	

TR-ELETTRA

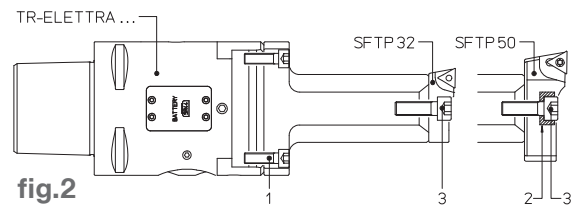
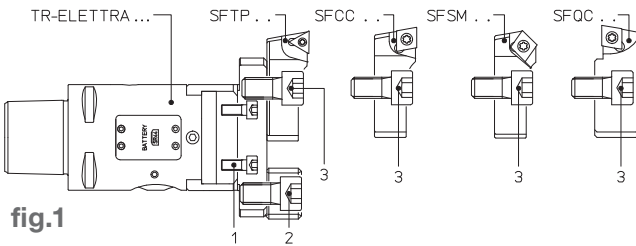
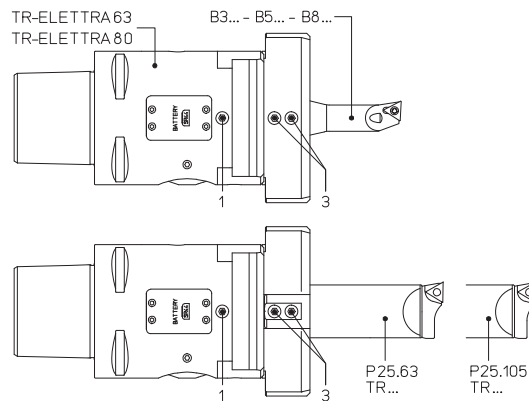
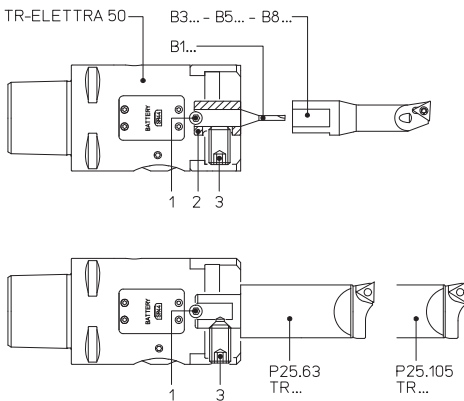


fig.1

fig.2

REF.	CODE 1	CODE 2	CODE 3	fig
TR-ELETTRA 50	200100150501	100051100020	100051100025	1
TR-ELETTRA 63	100051050025			
TR-ELETTRA 80	100051050016	201040607001	100051006020	

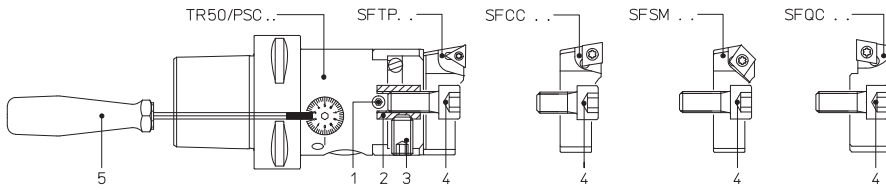
TR-ELETTRA



REF.	CODE 1	CODE 2	CODE 3
TR-ELETTRA 50	100238060010	200560116082	100231100016
TR-ELETTRA 63		-	100231060006
TR-ELETTRA 80	2001000150614	-	-

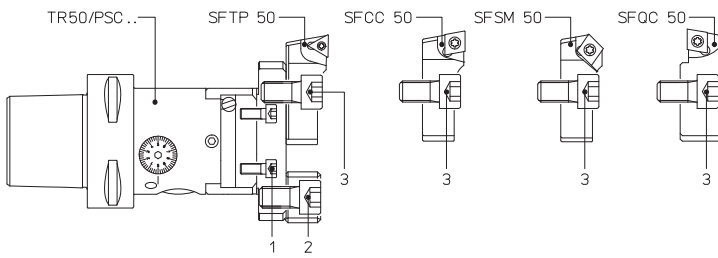
- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

TR-PSC



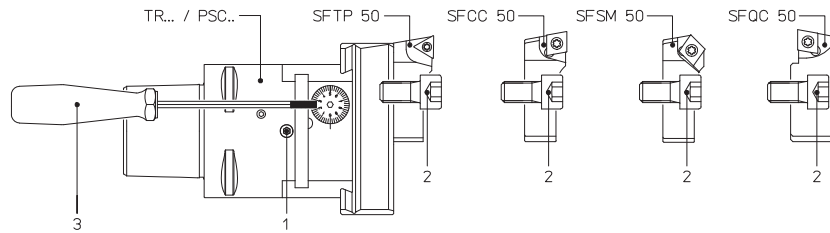
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TR 50 PSC 40-50-63	100271050008	201041015002	100231100016	100051100025	101500800250

TR-PSC



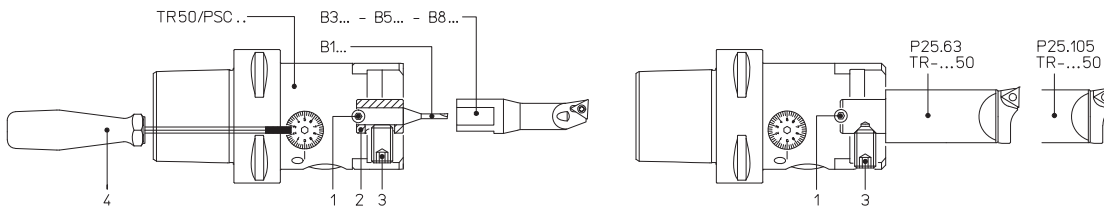
REF.	CODE 1	CODE 2	CODE 3
TR 50 - PSC 40-50-63	200100150501	100051100020	100051100025

TR-PSC



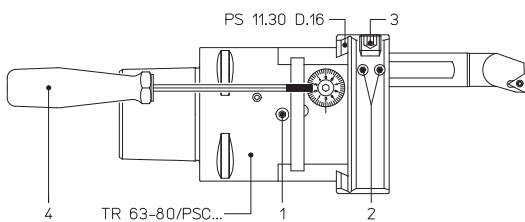
REF.	CODE 1	CODE 2	CODE 3
TR 63 - PSC 63	100251060010	100051100018	101500800300
TR 80 - PSC 80	100251060014		

TR-PSC



REF.	CODE 1	CODE 2	CODE 3	CODE 4
TR50 PSC40-50-63	100271050008	200560116082	100231100010	101500800250

TR-PSC



REF.	CODE 1	CODE 2	CODE 3	CODE 4
TR63 PSC63 TR80 PSC80	100251060014	100231050006	100231100010	101500800300

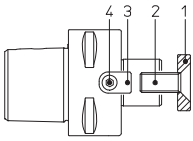


- SPARE PARTS
- ЗАПАСНЫЕ ЧАСТИ
- CZĘŚCI ZAMIENNE
- NÁHRADNÍ DÍLY
- YEDEK PARÇALAR

VADZA

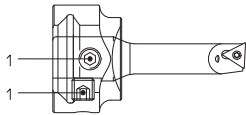
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PSC - PF

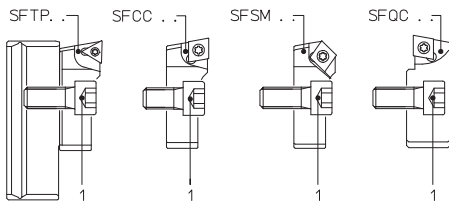
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PF 22	201010105030	100101100025	201101801002	100051040010
PF 27	201010125030	100101120030	201101801202	100051050012
PF 32	201010165020	100101160035	201101801402	100051060016
PF 40	201010210010	100101200045	201101801603	100051060018
PF 60	-	-	201101802510	100051120025



P 20.30

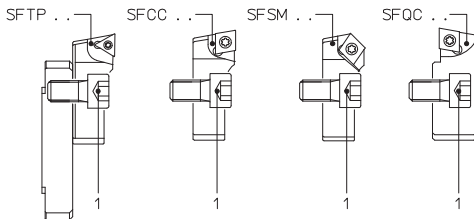
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PS



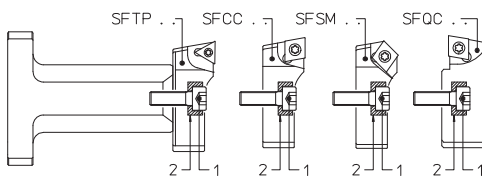
REF.	CODE 1
PS 11.30	100051100018
PS 12.30	
PS 13.30	
PS 11.40	100051100025
PS 12.40	
PS 13.40	
PS 14.40	

PS



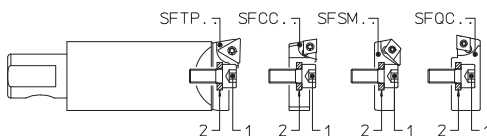
REF.	CODE 1
PS31.24	100051100020
PS31.28	100051100025
PS32.28	
PS33.28	

P 22.28



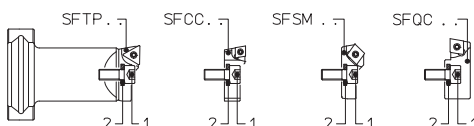
REF.	CODE 1	CODE 2
P22.28	100051060020	201040607001

P 25



REF.	CODE 1	CODE 2
P25.63	100051050012	100800100530
P25.105		

P



REF.	CODE 1	CODE 2
P 00.30	100051050012	100800100530
P 03.30		
P 04.30		
P 02.40	100051060018	100800100640
P 03.40		
P 04.40		