

**BW, SE, SCH, BWA, STV  
HA, WZ, FSH, BSG, WRS, WT, ST**



**de** Einbauerklärung

**en** Declaration of incorporation

**fr** Déclaration d'incorporation

**it** Dichiaraione di montaggio

**es** Declaración de incorporación

**pt** Declaração de montagem

**nl** Inbouwverklaring

**da** Inkorporeringserklæring

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**bg** Декларация за вграждане

**ro** Montavimo deklaracija

**us** Declaration of incorporation

**(de) Einbauerklärung (Original)**

Hiermit erklärt der Hersteller PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, der unvollständigen Maschine (siehe Typ und Serien-Nr.), dass folgende, grundlegende Anforderungen der Richtlinie 2006/42/EG nach Anhang I zur Anwendung kommen und eingehalten werden: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 und 1.5.9. Für die unvollständige Maschine wurde eine technische Dokumentation nach Anhang VII der Maschinenrichtlinie erstellt. Autorisierten Stellen wird auf begründetem Verlangen die technischen Dokumentationen in Papier- oder elektronischer Form zur Verfügung gestellt. Diese unvollständige Maschine darf nur dann in Betrieb genommen werden, wenn festgestellt wurde, dass die Maschine, in welche die unvollständige Maschine eingebaut werden soll, den Bestimmungen der Maschinenrichtlinie entspricht.

Name und Position des Erstellers - Unterschrift des Erstellers

**(en) Déclaration d'incorporation**

The manufacturer PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, hereby declares for the partly completed machinery (see type and serial no.) that the following fundamental requirements of the Directive 2006/42/EC are applied and fulfilled in accordance with Annex I 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 and 1.5.9. Technical documentation was generated for the partly completed machinery in accordance with Annex VII of the Machinery Directive. Authorised sites are provided with this technical documentation in paper or electronic form on justified request. This partly completed machinery may be put into operation only when the machine in which the partly completed machinery is to be incorporated has been ascertained to fulfil the conditions under the Machinery Directive.

Name and position of issuer - Signature of issuer

**(fr) Declaration of incorporation**

Par la présente, le fabricant PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, de la quasi-machine (voir le type et le numéro de série) déclare que les exigences essentielles suivantes de la directive 2006/42/CE sont appliquées et respectées selon l'annexe I : 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 et 1.5.9. Une documentation technique conforme à l'annexe VII de la directive Machines a été conçue pour la quasi-machine. Les documents techniques seront communiqués aux organismes autorisés sur demande motivée sous forme papier ou électronique. Cette quasi-machine ne peut être mise en service que s'il est constaté que la machine à laquelle la quasi-machine doit être incorporée répond aux dispositions de la directive Machines.

Nom et fonction de l'émetteur - Signature de l'émetteur

**(it) Dichiarazione di montaggio**

Con la presente il costruttore PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, della macchina incompleta (vedi tipo e n. di serie), dichiara che sono state applicate e rispettate le seguenti specifiche di base della direttiva 2006/42/CE secondo l'Appendice I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 e 1.5.9. Per la macchina incompleta è stata prodotta la necessaria documentazione tecnica secondo l'Appendice VII della direttiva macchine. In caso di richiesta motivata la documentazione tecnica viene fornita in formato cartaceo o elettronico ai centri autorizzati. Questa macchina incompleta può essere messa in funzione solo dopo aver opportunamente verificato che la macchina nella quale la macchina incompleta deve essere installata è conforme alle specifiche della direttiva macchine.

Nome e cargo do emissor - Assinatura do emissor

**(es) Declaración de incorporación**

El fabricante PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, declara que la cuasi máquina (véase el tipo y nº de serie) respecta y cumple los siguientes requisitos básicos establecidos en la Directiva de Máquinas 2006/42/CE según el Anexo I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 y 1.5.9. Para la cuasi máquina se ha preparado una documentación técnica acorde al Anexo VII de la Directiva de Máquinas. Si los organismos autorizados lo solicitan de forma justificada, se pondrá a su disposición la documentación técnica en formato electrónico o papel. Esta máquina incompleta sólo se puede poner en funcionamiento si se constata previamente que la máquina completa en la que se debe realizar su montaje cumple con las disposiciones de la Directiva de Máquinas.

Nombre y cargo del expedidor - Firme del expedidor

**(pt) Declaração de montagem**

PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, fabricante da parte de máquina (modelo e número de série indicados), declara, pela presente, que os seguintes requisitos básicos da directiva europeia 2006/42/CE, Anexo I, são aplicados e cumpridos: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 e 1.5.9. Para a parte de máquina foi criada documentação técnica conforme com o disposto no Anexo VII da directiva europeia „Máquinas“. Desde que o pedido seja devidamente fundamentado, disponibilizaremos a entidades autorizadas a documentação técnica em formato papel ou em formato electrónico. Só é permitido colocar esta parte de máquina em funcionamento quando a máquina, na qual esta parte se destina a ser integrada, for declarada em conformidade com o disposto na directiva europeia „Máquinas“.

Nome e cargo do emissor – Assinatura do emissor

**nl Inbouwverklaring**

Hierbij verklaart de fabrikant PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, van de niet voltooide machine (zie type en serienr. ) dat de volgende fundamentele eisen van richtlijn 2006/42/EG volgens Bijlage I toegepast vinden en dat aan deze eisen wordt voldaan: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 en 1.5.9. Voor de niet voltooide machine is technische documentatie volgens Bijlage VII van de Machinerichtlijn opgesteld. Aan geautoriseerde instanties wordt de technische documentatie na een gemotiveerd verzoek hier toe op papier of in elektronische vorm ter beschikking gesteld. Deze niet voltooide machine mag pas dan in bedrijf worden gesteld als vastgesteld is dat de machine waarin de niet voltooide machine moet worden ingebouwd, aan de bepalingen van de Machinerichtlijn voldoet.

Naam en functie van de uitgever – Handtekening van de uitgever

**da Inkorporeringserklæring**

Hermed erklærer delmaskinen (se type og serienr. se) fabrikant, PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, at nedenstående grundlæggende krav i direktivet 2006/42/EU iht. bilag I er anvendt og overholder: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 og 1.5.9. Der er fremsatlet en teknisk dokumentation for delmaskinen iht. bilag II i Maskindirektivet. De tekniske dokumentationer stilles efter begrundet anmodning til rådighed for de bemyndigede organger i skriftlig eller elektronisk udgave. Denne delmaskine må kun tages i brug, såfremt maskinen, hvor den i inkorporeret, overholder Maskindirektivets krav.

Utsteders navn og stilling - Utsteders signatur

**no Installasjonserklæring**

Med dette erklærer produsenten PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, av den ufullstendige maskinen (se Type og serienummer), at følgende grunnleggende krav i retningslinje 2006/42/EG vedlegg I kommer til anvendelse og blir overholdt: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 og 1.5.9. For den ufullstendige maskinen er det utarbeidet en teknisk dokumentasjon med vedlegg VII i maskinretningslinjene. Autoriserte steder vil på begrundet anmodning stille til rådighet den tekniske dokumentasjonen i papir- eller elektronisk form. Denne ufullstendige maskinen kan bare bli satt i drift, når det er blitt fastslått, at maskinen, i hvilken den ufullstendige maskinen skal installeres, oppfyller bestemmelsene i maskinretningslinjene.

Udseder, navn og stiling – Udsteder, underskrift

**sv Försäkran om inbyggnad**

Härmed försäkrar tillverkaren PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, av den ofullständiga maskinen (se typ- och serienummer) att följande grundläggande krav i riktlinjen 2006/42/EG bilaga I har tillämpats och iakttagits: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 och 1.5.9. En teknisk dokumentation har upprättats för den delvis fullbordade maskinen i enlighet med bilaga VII till maskindirektivet. Auktoriserade personer tillhandahålls den tekniska dokumentationen i pappers- eller elektronisk form. Denna delvis fullbordade maskin får endast tas i drift när det har konstaterats att maskinen, som denna delvis fullbordade maskin ska ingå i eller byggas ihop med, uppfyller kraven i maskindirektivet.

Utfärdarens namn och befattnings – Utfärdarens namnteckning

**fi Asennukseen liittyvä vakuutus**

PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, vakuuttaa koneen kaltaisen tuotteen valmistajana (typpi ja sarja-n:o), että seuraava direktiivin 2006/42/EY liitteen I mukaisia, perustavia vaatimuksia on sovellettu ja noudataan: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 ja 1.5.9. Koneen kaltaiselle tuotteelle on laadittu konedirektiivin liitteen VII muokkaiset tekniset dokumentit. Auktorisoitujen tahojen käyttöön annetaan perustelluissa tapauksissa tekninen dokumentaatio paperille tulostetussa tai sähköisessä muodossa. Tämän koneen kaltaisen tuotteen saa ottaa käyttöön vasta kun on todettu, että kone, johon koneen kaltainen tuote on määrä asentaa, täyttää konedirektiivin määrykset.

Asetajan nimi ja toimi - Allmoituksen antajan allekirjoitus

**el Δήλωση ενσωμάτωσης**

Δια της παρούσης, ο κατασκευαστής του ημιτελούς μηχανήματος (τύπος και αρ.), PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, δηλώνει ότι εφαρμόζονται και τηρούνται οι κάτωθι βασικές απαιτήσεις της Οδηγίας 2006/42/EK κατά το Παράρτημα I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 και 1.5.9. Για το ημιτελές μηχάνημα συντάχθηκε τεχνική τεκμηρίωση κατά το Παράρτημα VII της Οδηγίας περί Μηχανημάτων. Οι τεχνικές τεκμηρίωσεις θα πρέπει να υποβάλλονται στις αρμόδιες αρχές – εφόσον κάτι τέτοιο ζητηθεί απολογημένα – σε έντυπη ή ηλεκτρονική μορφή. Το παρόν ημιτελές μηχάνημα επιτρέπεται να τεθεί σε λειτουργία μόνο αφού διαπιστωθεί ότι το μηχάνημα, στο οποίο πρόκειται να ενσωματωθεί το ημιτελές μηχάνημα, πληροί τους κανονισμούς της Οδηγίας περί Μηχανημάτων. Όνομα και θέση εκδότη - Υπογραφή εκδότη

**tr Monte etme açıklaması**

Bununla imalatçı PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, komple olmayan makineye (Tip ve seri numarasına bakınız), ek I'e göre 2006/42/AB yönedgesinin aşağıdaki esaslı taleplerinin uygulandığını ve bunlara uyulduğunu beyan eder: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 ve 1.5.9. Komple olmayan makine için makine yönedgesinin ek VII'ye göre bir teknik dokümantasyon düzenlenmiştir. Haklı talep üzerine yetkili yerler için kağıt üzerinde yazılı veya elektronik şekilde teknik dokümantasyonlar hazır tutulmaktadır. Bu komple olmayan makinenin, eğer komple olmayan makinenin içine monte edileceği makinenin makine yönedgesinin kaidelerine uygun olduğu tespit edildiyse, ancak ondan sonra işletmeye alınmasına müsaade edilmektedir.

Düzenleyenin ismi ve görevi – Düzenleyenin imzası

**cs Prohlášení o zabudování**

Tímto prohlašuje společnost PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, výrobce neúplného stroje (viz typ a sériové číslo), že jsou aplikovány a dodrženy následující základní požadavky směrnice 2006/42/ES podle přílohy I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 a 1.5.9. K neúplnému stroji byla vypracována technická dokumentace podle přílohy VII strojní směrnice. Autorizovaným místům bude na základě zdůvodnění žádosti poskytnuta technická dokumentace v papírové nebo elektronické podobě. Neúplný stroj se smí uvést do provozu jen tehdy, když bude konstatováno, že stroj, do kterého se má neúplný stroj zabudovat, vyhovuje ustanovením strojní směrnice.

Jméno a funkce vystavující osoby - Podpis vystavující osoby

**sk Vyhľásenie o začlenení**

Týmto vyhlasuje výrobca, spoločnosť PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, nekompletného strojového zariadenia (typ a sériové), že boli aplikované a dodržané nasledujúce základné požiadavky smernice 2006/42/ES podľa prílohy I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 a 1.5.9. Pre nekompletné strojové zariadenie bola zostavená technická dokumentácia podľa prílohy VII smernice o strojových zariadeniach. Autorizovaným miestam sa technická dokumentácia poskytne na základe odôvodnenej žiadosti v tlačenej alebo elektronickej forme. Toto nekompletné strojové zariadenie sa smie uviesť do prevádzky až vtedy, keď bolo zistené, že strojové zariadenie, do ktorého sa má nekompletné strojové zariadenie vmontovať, zodpovedá ustanoveniam smernice o strojových zariadeniach.

Názov a pozícia vystaviteľa – Podpis vystaviteľa

**pl Deklaracja wbudowania**

Niniejszym PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, producent nieukończonej maszyny (typ i nr seryjny), że zastosował i przestrzega następujących podstawowych wymagań dyrektywy 2006/42/WE zgodnie z Załącznikiem I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 i 1.5.9. Dla maszyny nieukończonej sporządzono dokumentację techniczną zgodnie z Załącznikiem VII Dyrektywy maszynowej. Dokumentacja techniczna zostanie udostępniona na upoważnionym jednostkom w formie drukowanej lub elektronicznej na uzasadnione żądanie. Ta nieukończona maszyna może zostać uruchomiona dopiero po stwierdzeniu, że maszyna całościowa, w której zostanie zbudowana, spełnia wymagania Dyrektywy maszynowej.

Nazwisko i funkcja osoby zatwierdzającej – Podpis osoby zatwierdzającej

**hu Beépítési nyilatkozat**

A nem teljes gép (lásd típus és szériaszám) gyártója: PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide ezennel kijelenti, hogy a 2006/42/EK irányelv következő alapvető követelményei alkalmazandók és vannak betartva az I. Melléklet szerint: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 és 1.5.9. A gépekről szóló irányelv VII. Melléklete szerint a nem teljes gép számára műszaki dokumentáció készült. A feljogosított szerveknek indokolt kérés esetén papír alapon vagy elektronikus formában állítsuk rendelkezésre a műszaki dokumentációt. Ezt a nem teljes gépet tilos mindenkorrigált üzembel helyezni, míg meg nem állapították, hogy a teljes gép, amelybe ezt a rész-gépet szerelik, megfelel a gépekre vonatkozó irányelv rendelkezéseinek.

Szerző neve és pozíciója – Szerző aláírása

**sl Izjava o vgradnji**

S tem izvajalec PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, delno dokončanega stroja (glej tip in serijsko št.) izjavlja, da veljajo in so upoštevane naslednje temeljne zahteve smernice 2006/42/ES v prilogi I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 in 1.5.9. Za delno dokončan stroj je bila izdelana tehnična dokumentacija po prilogi VII direktivi o strojih. Avtoriziranim službam bo tehnična dokumentacija v papirni ali elektronski obliki dana na voljo na podlagi utemeljene zahteve. Ta delno dokončan stroj se lahko uporabi le takrat, ko je bilo ugotovljeno, da stroj, v katerega bi naj delno dokončan stroj vgrajen, ustrezala določbam direktive o strojih.

Ime in položaj izdelovalca – podpis izdelovalca



Izjava o ugradnji  
Montavimo deklaracija  
Декларация со ответствия от производителя

Декларация за вграждане  
Montavimo deklaracija

**hr** Izjava o ugradnji

Ovime proizvođač PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, nepotpunog uredaja (vidi tip i serijski broj) izjašnjava da su se prilikom proizvodnje uvažavali temeljni zahtjevi direktive 2006/42/EZ Dodatak 2, a radi se o sljedećim točkama: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 i 1.5.9. Za nepotpuni uredaj sastavljena je tehnička dokumentacija sukladno Dodatku VII Direktive o strojevima. Autoriziranim mjestima će, na utemeljeni zahtjev, tehnička dokumentacija biti dostavljena u papirnatom i elektronskom obliku. Ovaj nepotpuni uredaj smije se tek onda pokrenuti, nakon što je utvrđeno da uredaj, u koji ovaj nepotpuni uredaj treba biti ugrađen, odgovara odredbama Direktive o strojevima.

Ime i položaj sastavljača – Potpis sastavljača

**lt** Montavimo deklaracija

Šiuo dokumentu gamintojas „PFERD-Werkzeuge“, Postfach 1280, D-51704 Marienheide, patvirtina, kad iš dalies sukomplektuotai mašinai (žr. tipą ir serijos Nr.) buvo tai-komi ir yra laikomasi toliau pateiktos direktyvos 2006/42/EB I priede pateikių reikalavimų: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 ir 1.5.9. Iš dalies sukomplektuotai mašinai pagal mašinų direktyvos VII priedą buvo parengta techninė dokumentacija. Paskirtajai ištaigai pateikus pagrįstą reikalavimą, techninė dokumentacija perduodama išspausdintą ant popieriaus arba elektroninė formą. Šią iš dalies sukomplektuotą mašiną pradeti ekspluatuoti galima tik tada, kai nustatomą, jog mašina, į kuria bus įmontuota ši iš dalies sukomplektuota mašina, atitinka mašinų direktyvos nuostatas.

Sudarytojo pavardė ir pareigos – Sudarytojo parašas

**ru** Декларация соответствия от производителя

Компания PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, гарантирует, что элемент механизма (тип и серийный номер указаны на обратной стороне) соответствует основным требованиям директивы 2006 / 42 / EC, включая дополнения I, а именно пунктам: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 и 1.5.9. Техническая документация для данного механизма разрабатывалась после дополнения VII Директивы о механизмах. Техническая документация предоставлена ответственным лицам на месте расположения объекта в документарной и электронной форме. Элемент механизма может сдаваться в эксплуатацию только после установки в конечный механизм или машину, согласно соответствующей Директиве о механизмах.

Фамилия и должность заявителя – Подпись заявителя

D-Marienheide, 20.02.2019

Dr. B. Stuckenholz  
Leitung Fertigung

T. Zipperer  
Produktmanagement Werkzeugantriebe

**bg** Декларация за вграждане

С настоящото производителят PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide на непълната машина (вжк тип и серийния №) декларира, че се прилагат и спазват следните основни изисквания на директива 2006/42/EО съгласно Приложение I: 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 и 1.5.9. За непълната машина е съставена техническа документация съгласно Приложение VII на директивата за машините. При аргументирано поискване техническата документация ще бъде предоставена на оторизираните инстанции на хартия или в електронен вид. Непълната машина може да бъде пусната в експлоатация, само след като бъде установено, че машината, в която непълната машина трябва да бъде вградена, отговаря на разпоредбите на директивата за машините.

Име и длъжност на съставителя – подпись на съставителя

**ro** Montavimo deklaracija

Producătorul PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, declară prin prezenta faptul că toate cerințele fundamentale impuse de Directiva 2006/42/CE, Anexa I vor fi aplicate și respectate în raport cu prezenta cvasimasină (tip și serie): 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 și 1.5.9. Pentru această cvasimasină s-a conceput o documentație tehnică în conformitate cu Anexa VII a Directivei privind echipamentele tehnice. Oficile autorizate vor primi la cerere o copie a documentației tehnice pe suport de hârtie sau pe suport electronic. Prezenta cvasimasină poate fi pusă în funcție numai după ce s-a constatat faptul că mașina în care aceasta va fi încorporată, corespunde cerințelor impuse de Directiva privind echipamentele tehnice.

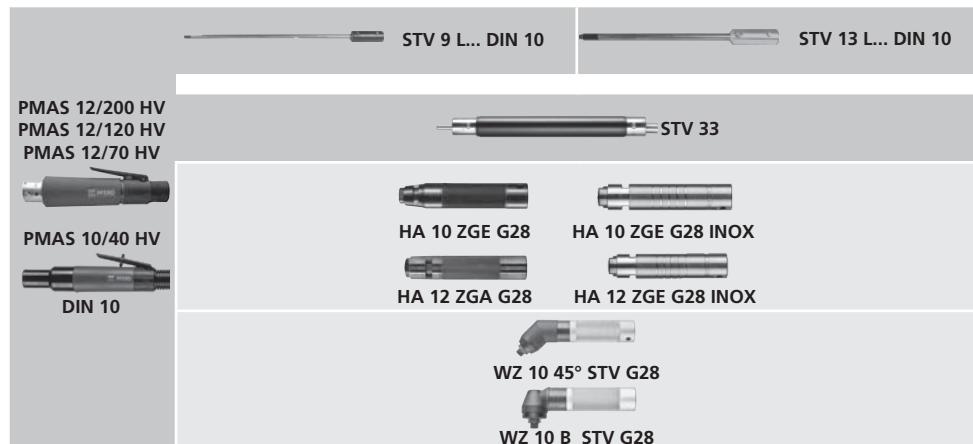
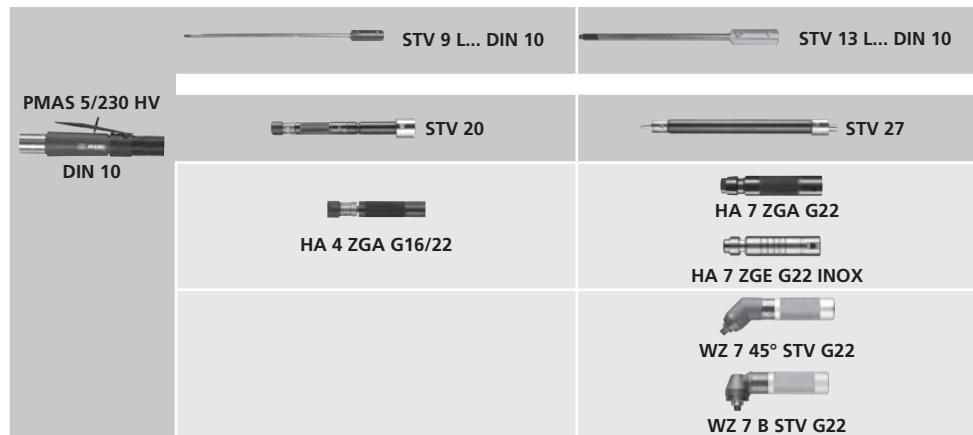
Numele și poziția elaboratorului – Semnătura elaboratorului

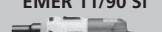
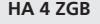
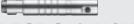
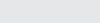
**us** Declaration of incorporation

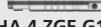
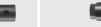
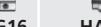
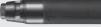
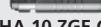
The manufacturer PFERD-Werkzeuge, Postfach 1280, D-51704 Marienheide, hereby declares for the partly completed machinery (see type and serial no.) that the following fundamental requirements of the Directive 2006/42/EC are applied and fulfilled in accordance with Annex I 1.1.2, 1.1.3, 1.1.5, 1.3.7, 1.5.1, 1.5.8 and 1.5.9. Technical documentation was generated for the partly completed machinery in accordance with Annex VII of the Machinery Directive. Authorised sites are provided with this technical documentation in paper or electronic form on justified request. This partly completed machinery may be put into operation only when the machine in which the partly completed machinery is to be incorporated has been ascertained to fulfil the conditions under the Machinery Directive.

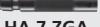
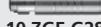
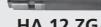
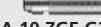
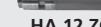
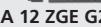
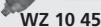
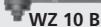
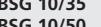
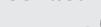
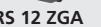
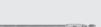
Name and position of issuer - Signature of issuer

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<http://spareparts.pferd.com> bzw. bitte über info@pferd.com anfordern.
- en** Drawings and spare parts lists for our tool drive units are available on our homepage at  
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- fr** Pour les dessins et les listes de pièces détachées concernant nos systèmes de motorisation outils voir notre page d'accueil <http://spareparts.pferd.com>. On pourra aussi les demander s'adressant à info@pferd.com.
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- us** Drawings and spare parts lists for our tool drive units are available on our homepage at  
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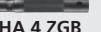
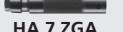
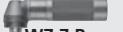


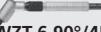
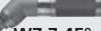
				
<b>EMER 5/250 Si DIN 10</b>	  			
		 		
		 		
				
<b>EMER 11/90 Si DIN 10</b>	  			
	 	 		
		 		
<b>RUER 5/250 SI DIN 10</b>	    	 	  	  
		 		 
				

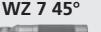
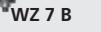
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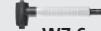
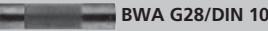
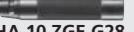
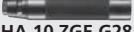
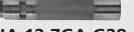
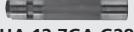
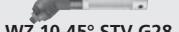
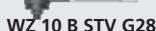
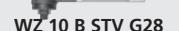
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<b>RUER 15/150 SI</b> <b>RUER 15/60 SI</b> <b>RUER 15/30 SI</b>   DIN 10	            	         	           	
				

RUG 19/120 SI  DIN 10	BW 7 ZG/7 ZGU DIN 10  HA 7 ZGA HA 7 ZGE G22 INOX	BW 10 ZG DIN 10  HA 10 ZGE HA 10 ZGE G28 INOX	BW 12 ZGA DIN 10  HA 10 ZGE HA 10 ZGE G28 INOX	BW 12 KG DIN 10  HA 12 ZG
	 WZ 7 B	 WZ 10 B	 WZ 10 B	
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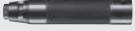
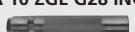
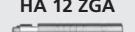
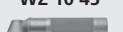
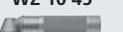
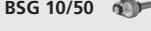
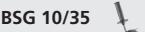
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	 WZ 4 A	 WZT 6 90°/45°	 WZ 4 A	 WZ 7 45°
				 WZ 7 B
				 WT 7 E M 14

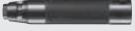
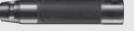
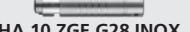
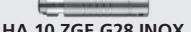
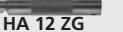
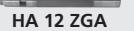
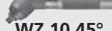
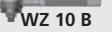
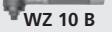
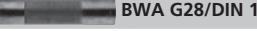
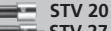
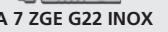
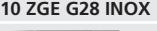
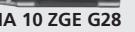
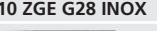
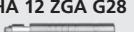
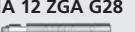
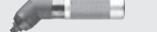
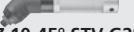
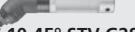
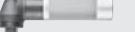
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ME 22/150 MEW 18/150 DIN 10 (+) ST 103 DIN 10	BW 4 ZG DIN 10  HA 4 ZGB  HA 4 ZGE G16 INOX	BW 6 Z DIN 10  HA 6 Z	BW 6 ZG DIN 10  HA 4 ZGB  HA 4 ZGE G16 INOX	BW 7 ZG / 7 ZGU DIN 10  HA 7 ZGA  HA 7 ZGE G22 INOX
	  	   	  	  
	  	   		
				

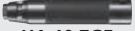
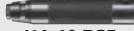
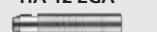
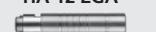
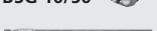
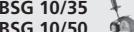
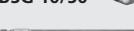
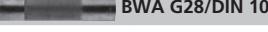
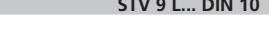
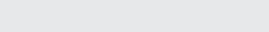
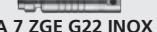
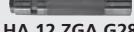
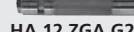
 <b>DIN 10</b>	<b>BW 4 ZG DIN 10</b>	<b>BW 6 Z DIN 10</b>	<b>BW 6 ZG DIN 10</b>	<b>BW 7 ZG / 7 ZGU DIN 10</b>
	 <b>HA 4 ZGE G16 INOX</b>		 <b>HA 4 ZGE G16 INOX</b>	 <b>HA 7 ZGE G22 INOX</b>
		 <b>WZT 6 90°/45°</b>		 <b>WZ 7 B</b>
				
	<b>STV 9 L... DIN 10</b>	<b>BW 10 ZG DIN 10</b>	<b>BW 12 ZGA DIN 10</b>	
				
	<b>STV 9 L... DIN 10</b>		<b>STV 13 L... DIN 10</b>	
	 <b>STV 27</b>			
	 <b>HA 7 ZGE G22 INOX</b>	 <b>HA 10 ZGE G28 INOX</b>	 <b>HA 10 ZGE G28 INOX</b>	
		 <b>HA 12 ZGE G28 INOX</b>	 <b>HA 12 ZGE G28 INOX</b>	
	 <b>HA 7-45° STV G22</b>			
				

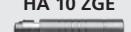
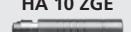
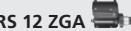
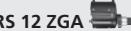
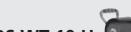


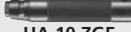
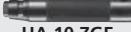
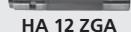
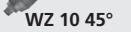
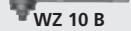
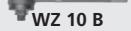
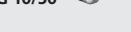
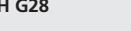
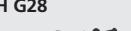
	BW 10 ZG DIN 10	BW 12 ZGA DIN 10	BW 12 KG DIN 10
ME 22/240 MEW 18/240   DIN 10	 <b>HA 10 ZGE</b>  <b>HA 10 ZGE G28 INOX</b>  <b>HA 12 ZGA</b>  <b>HA 12 ZGE G28 INOX</b>	 <b>HA 10 ZGE</b>  <b>HA 10 ZGE G28 INOX</b>  <b>HA 12 ZGA</b>  <b>HA 12 ZGE G28 INOX</b>	 <b>HA 12/15 KG MK I</b>  <b>HA 12 ZG</b>
	 <b>WZ 10 45°</b>  <b>WZ 10 B</b>	 <b>WZ 10 45°</b>  <b>WZ 10 B</b>	
	 <b>BSG 10/35</b>  <b>BSG 10/50</b> <hr/> <b>FSH G28</b>	 <b>BSG 10/35</b>  <b>BSG 10/50</b> <hr/> <b>FSH G28</b>  <b>WRS 12 ZGA</b>	

 <b>DIN 10</b> 	<b>BW 10 ZG DIN 10</b>	<b>BW 12 ZGA DIN 10</b>	<b>BW 12 KG DIN 10</b>
	 HA 10 ZGE	 HA 10 ZGE	 HA 12/15 KG MK I
	 HA 10 ZGE G28 INOX	 HA 10 ZGE G28 INOX	 HA 12 ZG
	 HA 12 ZGA	 HA 12 ZGA	
	 HA 12 ZGE G28 INOX	 HA 12 ZGE G28 INOX	
	 WZ 10 45°	 WZ 10 45°	
	 WZ 10 B	 WZ 10 B	
	 BSG 10/35  BSG 10/50	 BSG 10/35  BSG 10/50	
	 FSH G28	 FSH G28	
		 WRS 12 ZGA	
	<b>BW 7 ZG / 7 ZGU DIN 10</b>	<b>BW 10 ZG DIN 10</b>	<b>BW 12 ZGA DIN 10</b>
	 BWA G22/DIN 10	 BWA G28/DIN 10	
	<b>STV 9 L... DIN 10</b>	<b>STV 13 L... DIN 10</b>	
	 STV 20  STV 27	 STV 33	
	 HA 7 ZGA G22  HA 7 ZGE G22 INOX	 HA 10 ZGE G28  HA 10 ZGE G28 INOX	 HA 10 ZGE G28  HA 10 ZGE G28 INOX
		 HA 12 ZGA G28  HA 12 ZGE G28 INOX	 HA 12 ZGA G28  HA 12 ZGE G28 INOX
	 HA 7 B STV G22  HA 7-45° STV G22	 WZ 10-45° STV G28  WZ 10 B STV G28	 WZ 10-45° STV G28  WZ 10 B STV G28

	BW 4 ZG DIN 10	BW 6 Z DIN 10	BW 6 ZG DIN 10	BW 7 ZG / 7 ZGU DIN 10
<b>MD 10</b>   ST 103 DIN 10 (+)	 <b>HA 4 ZGB</b>   <b>HA 4 ZGE G16 INOX</b>	 <b>HA 6 Z</b>	 <b>HA 4 ZGB</b>   <b>HA 4 ZGE G16 INOX</b>	 <b>HA 7 ZGA</b>   <b>HA 7 ZGE G22 INOX</b>
	 <b>WZ 4 A</b>	 <b>WZ 6</b>   <b>WZT 6 90°/45°</b>	 <b>WZ 4 A</b>	 <b>WZ 7 45°</b>   <b>WZ 7 B</b>
				 <b>WT 7 E M 14</b>

   	BW 10 ZG DIN 10	BW 12 ZGA DIN 10	BW 12 KG DIN 10
	 	 	 
	 	 	
	 	 	
	  	  	
   	BW 7 ZG / 7 ZGU DIN 10	BW 10 ZG DIN 10	BW 12 ZGA DIN 10
			
			
	 		
	 	   	   
   	 	 	 

	BW 10 ZG DIN 15	BW 12 ZGA DIN 15	BW 12 KG DIN 15	BW 15 KG DIN 15
MME 40/150  DIN 15	 HA 10 ZGE	 HA 10 ZGE	 HA 12 ZG	 HA 12 ZG
	 HA 10 ZGE G28 INOX	 HA 10 ZGE G28 INOX		
	 HA 12 ZGA	 HA 12 ZGA		
	 HA 12 ZGE G28 INOX	 HA 12 ZGE G28 INOX		
	 WZ 10 45°	 WZ 10 45°		
	 WZ 10 B	 WZ 10 B		
	 BSG 10/35	 BSG 10/35		
	 BSG 10/50	 BSG 10/50		
	 FSH G28	 FSH G28		
	 WT 10 H	 WT 10 H		
WRS 12 ZGA	 WRS 12 ZGA	 WRS 12 ZGA		
	 WRS WT 10 H	 WRS WT 10 H		

	BW 10 ZG DIN 15	BW 12 ZGA DIN 15	BW 12 KG DIN 15	BW 15 KG DIN 15
SD 25  DIN 15	 HA 10 ZGE	 HA 10 ZGE	 HA 12 ZG	 HA 12 ZG
	 HA 10 ZGE G28 INOX	 HA 10 ZGE G28 INOX		
	 HA 12 ZGA	 HA 12 ZGA		
	 HA 12 ZGE G28 INOX	 HA 12 ZGE G28 INOX		
	 WZ 10 45°	 WZ 10 45°		
	 WZ 10 B	 WZ 10 B		
	 BSG 10/35	 BSG 10/35		
	 BSG 10/50	 BSG 10/50		
	 FSH G28	 FSH G28		
		 WT 10 H		

		EU	USA
		BW 4 PST-T DIN 10/M4	BW 4 PST-T DIN 10/M4
MD 10 + ST103	○	50–80 mm	2 "–3 1/8"
MEW 18/240	○		
ME 22/240	○	POLISTAR TUBE	POLISTAR TUBE
RUER 8/180 SI	●		
RUER 15/150 SI	○	19–50 mm	3/4"–2"
MEW 18/150	○		
ME 22/150	○	POLINOX® cross buffs* <sup>1</sup>	POLINOX® cross buffs* <sup>1</sup>
MD 10	○		
MMEW 11/120	●		1 "–1 3/4"
RUG 19/120 SI	○		
RUER 15/60 SI	●		
RUER 15/30 SI	○		
 = ideally suitable  = suitable		Threaded nylon tube brushes* <sup>2</sup>	

		EU	USA
		BW 7 PST-T DIN 10/M5	BW 7 PST-T DIN 10/M5
MD 10 + ST103	○	90–100 mm	3 1/2 "–4"
MEW 18/240	○		
ME 22/240	○	POLISTAR TUBE	POLISTAR TUBE
RUER 8/180 SI	○		
MEW 18/150	○	19–50 mm	3/4"–2"
ME 22/150	○		
MD 10	●	POLINOX® cross buffs* <sup>1</sup>	POLINOX® cross buffs* <sup>1</sup>
MMEW 11/120	●		
RUG 19/120 SI	○		
RUER 15/60 SI	●		
RUER 15/30 SI	●		
 = ideally suitable  = suitable		Threaded nylon tube brushes* <sup>2</sup>	

\*1 Estrellas de amolar / Étoiles abrasives / Strelas de acabamento / Schleifsterne

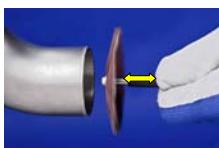
\*2 Cepillos para interiores con rosca, alambre de nylon / Brosses à tubes à filetage, garniture en nylon / Spazzole per interni con filettatura, fili in nylon / Escovas internas com rosca, cerdas de nylon / Innenbürsten mit Gewinde, Nylon-Besatz

**Einsatzhinweise Polistar-Tube:**

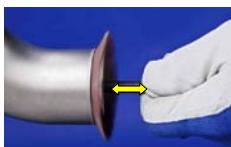

Bevorzugte Aufspannrichtung



Bevor der Schleifstern in das Rohr eingeführt wird, muss dieser von Hand vorgeflext werden. Dadurch lässt sich der Schleifstern besser einführen und das auftretende Drehmoment wird herabgesetzt.



Beim Einführen des Werkzeugs sollte der Griffpunkt möglichst nahe am Biegwellen-Ende sitzen um ein Schlagen des Werkzeuges beim Einführen zu vermeiden!



Sobald das Werkzeug die Krümmung des Rohrbogens erreicht hat, muss die Biegewelle beim Weiterschieben am Roheingang heruntergedrückt werden. Dadurch wird ein „Schlagen“ der Lamellen im Rohrbogen verhindert.



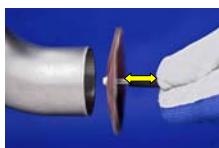
Beim Heraustreten der Lamellen auf der anderen Seite des Rohrbogens können diese in Rotation zurückgezogen und mit der „Rückseite“ geschliffen werden. Auch hierbei muss die Biegewelle am Roheingang heruntergedrückt werden.

**Operating Instructions for the Polistar-Tube:**

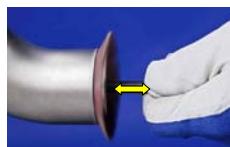

Preferred direction of clamping



Before inserting the grinding star into the pipe, the star must be shaped by hand to impart flexibility. This allows the grinding star to be inserted more easily and also reduces the drive torque.



When inserting the tool, hold the flexible shaft as close to the end as possible, and be careful not to create any impact on the tool!

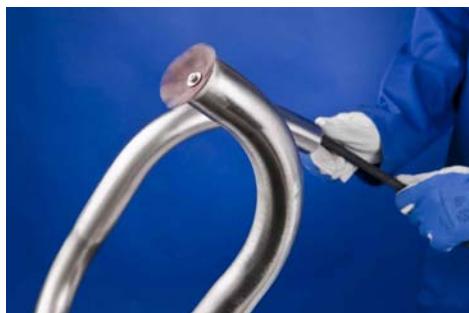


As soon as the tool has reached the start of the bend in the pipe the flexible shaft must be pushed down at the point of entry into the pipe. This avoids the segments “clashing” within the bend in the pipe.



When the segments emerge at the other end of the bend in the pipe, they can be drawn back in, still rotating, and a further grinding pass made using the “back face” of the segments. Here too the flexible shaft must be pushed down at the point of entry into the pipe.

**Zusätzlich mögliche Anwendung!**



**In addition, possible application!**



#### **Polistar-Tube Drehzahltafel:**

Die Seelen sollten nur in Kombination mit Polistar-Tube verwendet werden. Die Einsatzdrehzahlen sind daher wie folgt:

Einsatzparameter Internal Grinder / Neues Besatzmaterial			Anwendung		Sicherheit	
POLISTAR-TUBE PST-T Schleifstern Durchmesser u. Körnung	Einzusetzende Biegewelle	Verwendung für Rohrbögen Ø (mm)	$V_{opt}$	$N_{opt}$	$V_{max}$	$N_{max}$
50/4 A 60 - 320	4	35-40	8 - 10 m/s	3000 - 3800 RPM	20 m/s	7650 RPM
60/4 A 60 - 320	4	40-45	8 - 10 m/s	2500 - 3200 RPM	20 m/s	6350 RPM
70/4 A 60 - 320	4	45-50	8 - 10 m/s	2200 - 2700 RPM	20 m/s	5450 RPM
80/4 A 60 - 320	4	50-55	8 - 10 m/s	1900 - 2400 RPM	20 m/s	4750 RPM
90/5 A 60 - 320	7	55-60	8 - 10 m/s	1700 - 2100 RPM	20 m/s	4250 RPM
100/5 A 60 - 320	7	60-65	8 - 10 m/s	1500 - 1900 RPM	20 m/s	3820 RPM

Einsatzparameter Internal Grinder / Neues Besatzmaterial			Anwendung		Sicherheit	
POLISTAR-TUBE PST-T Schleifstern Durchmesser u. Körnung	Einzusetzende Biegewelle	Verwendung für Rohrbögen Ø (mm)	$V_{opt}$	$N_{opt}$	$V_{max}$	$N_{max}$
50/4 A 60 - 320	4	35-40	8 - 10 m/s	3000 - 3800 RPM	20 m/s	7650 RPM
60/4 A 60 - 320	4	40-45	8 - 10 m/s	2500 - 3200 RPM	20 m/s	6350 RPM
70/4 A 60 - 320	4	45-50	8 - 10 m/s	2200 - 2700 RPM	20 m/s	5450 RPM
80/4 A 60 - 320	4	50-55	8 - 10 m/s	1900 - 2400 RPM	20 m/s	4750 RPM
90/5 A 60 - 320	7	55-60	8 - 10 m/s	1700 - 2100 RPM	20 m/s	4250 RPM
100/5 A 60 - 320	7	60-65	8 - 10 m/s	1500 - 1900 RPM	20 m/s	3820 RPM





# Flexible shaft drive

## Suitable drives and flexible shafts

	Tool manual 23, catalogue 9 see page ►	102	102	103	99	98	98	100
	Drive motor with / without overdrive ST103 ►	MEW 18/150 + ST103	ME 22/150 + ST103	MD 10 + ST103	RUG 19/120 SI + ST103	RUER 5/250 SI	RUER 10/250 SI	MEW 18/240
	Power output [watts]: ►	1.500	2.200	736	1.250	300	660	1.500
	Rot. speed range [RPM]: ►	40.000- 15.000	40.000- 15.000	36.000- 24.000- 17.100- 9.600- 6.300- 4.800- 2.550	36.000- 18.000- 9.000	25.000- 11.000	25.000- 11.000	24.000- 100
Flexible shafts and accessories ▼	Power output [watts] ▼	Drive [RPM] ▼						
<b>Flexible shafts</b>								
BW 4 ZG DIN 10 (G16)	500–300	40.000–15.000	○	○	●	●	●	○
BW 4 PST-T DIN 10	450–100	7.650– 1.500	–	–	○	–	–	○
BW 6 ZG DIN 10 (G16)	1.460–660	25.000–11.000	●	●	●	●	●	●
BW 6 Z DIN 10 (DPF or SRF)	1.460–600	25.000–11.000	○	○	●	●	●	○
BW 7 ZG DIN 10 (G22)	1.760–800	25.000–11.000	●	●	●	●	●	●
BW 7 ZGU DIN 10 2M (G22)	1.760–800	25.000–11.000	●	●	●	●	●	●
BW 7 PST-T DIN 10	1.000–370	4.250– 1.500	–	–	○	–	–	○
BW 10 ZG DIN 10 (G28)	2.450–140	18.000– 750	○	○	●	○	○	●
BW 10 ZG DIN 10 2M (G28)	2.450–140	18.000– 750	○	○	●	○	○	●
BW 10 ZG DIN 15 (G28)	2.450–140	18.000– 750	–	–	–	–	–	–
BW 12 ZGA DIN 10 (G28)	6.280–525	12.000– 850	–	–	○	○	–	●
BW 12 ZGA DIN 15 (G28)	6.280–525	12.000– 850	–	–	–	–	–	–
BW 12 KG DIN 10 (G35)	6.280–525	10.000– 850	–	–	○	○	–	●
BW 12 KG DIN 15 (G35)	6.280–525	10.000– 850	–	–	–	–	–	–
BW 15 KG DIN 15 (G35)	5.860–735	7.300– 1.000	–	–	–	–	–	–
<b>BW – handpieces</b>								
WZ 4 A G16	500–300	20.000	●*	●*	●*	●*	●*	●*
BSVH 24 (G16)	500–300	5,3 m/s	●*	●*	●*	●*	●*	●*
WZ 6 DPF/SRF	1.460–660	18.000	○*	○*	●*	●*	●*	○*
WZT 6 3.0 DPF/SRF	1.460–660	18.000	○*	○*	●*	●*	●*	○*
WZT 6 45° 6.0 DPF/SRF	1.460–660	18.000	○*	○*	●*	●*	●*	○*
WZ 7 B G22	1.760–800	17.100	○*	○*	●*	○*	–	●*
BSVH 36 (G22 + G28)	1.760–800	2,3 m/s	○*	○*	●*	○*	–	●*
WZ 7 45° G22	1.760–800	17.100	○*	○*	●*	○*	–	●*
WZ 10 B G28	2.450–140	17.100	○	○	●	○	○	●
WZ 10 45° G28	2.450–140	17.100	○	○	●	○	○	●
FSH G28	2.450–140	12.000	–	–	○*	○*	–	●*
BSG 10/35 E G28	2.450–140	7.000	–	–	○*	–	–	●*
BSG 10/50 E G28	2.450–140	7.000	–	–	○*	–	–	●*
WT 7 E M14 G22	1.760–800	25.000	●	●	●	–	●	●
BSVH 41 (G22)	1.760–800	1,6 m/s	●	●	●	–	●	●
WT 10 H G28	2.450–140	8.500	–	–	○*	–	–	●*
WRS 12 ZGA (G28)	6.280–525	12.000– 850	–	–	–	–	–	●*
WRS WT 10 H (G28)	2.450–140	8.500	–	–	–	–	–	●*

● = ideally suitable

○ = suitable

– = unsuitable

\* = not with max. shaft rotational speed

100	101	99	102	102	104	105	103	101	99	99	99
ME 22/240	RUER 8/180 SI	RUER 15/150 SI	MEW 18/150	ME 22/150	MME 40/150 DIN 15	SD 25-40 DIN 15	MD 10	MMEW 11/120	RUG 19/120 SI	RUER 15/60 SI	RUER 15/30 SI
2.200	600	1.050	1.500	2.200	4.000	1.840	736	800	1.250	1.050	1.050
24.000- 100	18.000- 500	15.000- 6.800	15.000- 100	15.000- 100	15.000- 100	13.500- 7.300- 5.100- 2.700- 1.700- 1.000	12.000- 8.000- 5.700- 3.200- 2.100- 1.600- 850	12.000- 800	12.000- 6.000- 3.000	5.900- 2.800	3.000- 1.400

○	○	○	○	○	-	-	-	-	-	-	-
○	●	○	○	○	-	-	○	●	○	●	○
●	●	○	○	○	-	-	○	○	○	-	-
○	●	○	○	○	-	-	○	○	○	-	-
●	○	○	○	○	-	-	○	○	○	-	-
●	○	○	○	○	-	-	○	○	○	-	-
○	○	-	○	○	-	-	●	●	○	●	●
●	-	●	●	●	-	-	●	○	●	○	○
●	-	●	●	●	-	-	●	○	●	○	○
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●*	○*	○*	○*	○*	-	-	○*	○*	○*	-	-
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●*	○*	○*	○*	○*	-	-	○*	○*	○*	-	-
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●*	-	○*	●*	●*	●*	●*	●*	●*	●*	○*	○*
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●	○	○	○	○	-	-	○	○	○	-	-
●*	-	○*	●*	●*	●*	●*	●*	●*	○*	-	-
●*	-	●*	●*	●*	●*	●*	●*	●*	●*	○*	○*
●*	-	-	●*	●*	●*	●*	●*	●*	●*	●*	●*
●*	-	-	●*	●*	●*	●*	●*	●*	●*	●*	●*

# Flexible shaft drive

## Suitable drives and flexible shafts

				Tool manual 23 US/CA, catalogue 9, see page ③ ►	44	45	46	47
				EDP number ►	92201	92205	92210	92013
				Drive motor ① with / without ►	RUER 5/250 SI	RUER 10/250 SI	RUER 15/30 SI	MEW 18/240
				Phase ►	1	1	1	1
				Power output [watts] ④ ►	300	660	900	1,500
				Power output [HP] ④ ►	0.4	0.9	1.2	2.01
				Rot. speed range [RPM] ④ ►	25,000– 11,000	25,000– 11,000	3,000– 1,400	24,000– 100
EDP number ▼	Flexible shafts and accessories ▼	Connection drive side / handpiece side ③ ▼	see page ③ ▼	Power output [watts] ⑤ ▼	Drive [RPM] ⑤ ▼			

### Flexible shafts ②



94001	BW 4 ZG	DIN 10 / G16	51	500–300	40,000–15,000	●	●	–	○
94264	BW 4 PST-T	DIN 10	56	450–100	7,650–1,500	–	–	○	○
94005	BW 6 ZG	DIN 10 / G16	51	1,460–660	25,000–11,000	●	●	–	●
94015	BW 7 ZGU 2M	DIN 10 / G22	53	1,760–800	25,000–11,000	–	●	–	●
94274	BW 7 PST-T	DIN 10	56	1,000–370	4,250–1,500	–	–	●	○
94020	BW 10 ZG	DIN 10 / G28	55	2,450–140	18,000–750	–	○	○	●
94025	BW 10 ZG 2M	DIN 10 / G28	55	2,450–140	18,000–750	–	○	○	●

### BW - handpieces ③

Straight handpieces



94301	HA 4 ZGB	G16	60		40,000	●	●	–	○
94315	HA 7 ZGA	G22	60		25,000	–	●	–	●
94320	HA 10 ZGE	G28	60		18,000	–	○	○	●

Angle handpieces



94351	WZ 4 A	G16	60	500–300	20,000	●*	●*	–	●*
94355	WZ 7 B	G22	60	1,760–800	17,100	–	●*	–	●*
94375	WZ 7 45°	G22	60	1,760–800	17,100	–	●*	–	●*
94360	WZ 10 B	G28	60	2,450–140	17,100	–	○	–	●
94380	WZ 10 45°	G28	60	2,450–140	17,100	–	○	–	●

Special flexible handpieces



94418	FSH	G28	60	2,450–140	12,000	–	–	–	●*
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Angle grinder drive



94385	WT 7 E M14	G22	60	1,760–800	25,000	–	●	–	●
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Belt grinder attachment holders



95015	BSVH 41	G22	61	1,760–800	1,6 m/s	–	●	–	●
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⑦ ● = highly recommended

○ = recommended

– = unsuitable

\* = not with max. shaft rotational speed



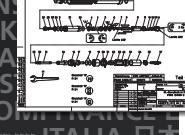






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