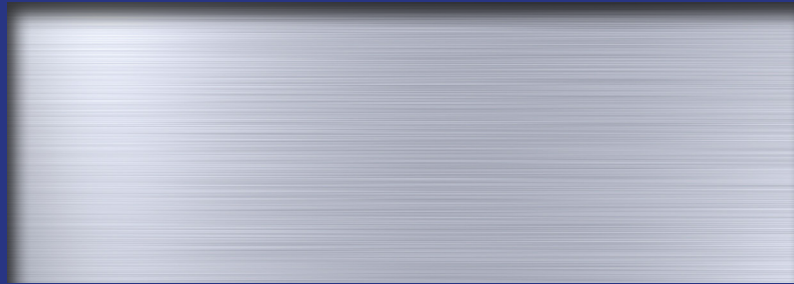


WHEN
IT IS
GOT
TO BE
LARGE



- + PAMA CONTRACT WORK
- + PAMA COMPONENTS
- = **THE ALTERNATIVE SOLUTION IN
SPECIAL MACHINE PRODUCTION**

WHEN IT IS GOT TO BE LARGE

PAMA contract work + PAMA components
= THE alternative solution in special machine production

Metal parts with big dimensions have to be perfectly worked and function precisely.

That can only be done by experienced machine engineers with special tools.

PAMA has both. Mechanics and fitters bring their knowledge of specialist craftsmanship for steel and stainless steel into welding structures and steel constructions.

Our own designers and technologists offer an added benefit. Whether you come with an idea or the final plan – the complete know-how of our specialist team is at your disposal.

***PAMA: Your fast, reliable
regional outsourcing partner.***

SERVICES

Welding and steel construction components

Roll grinding

Mechanical machining steel/stainless steel

Surface finishing

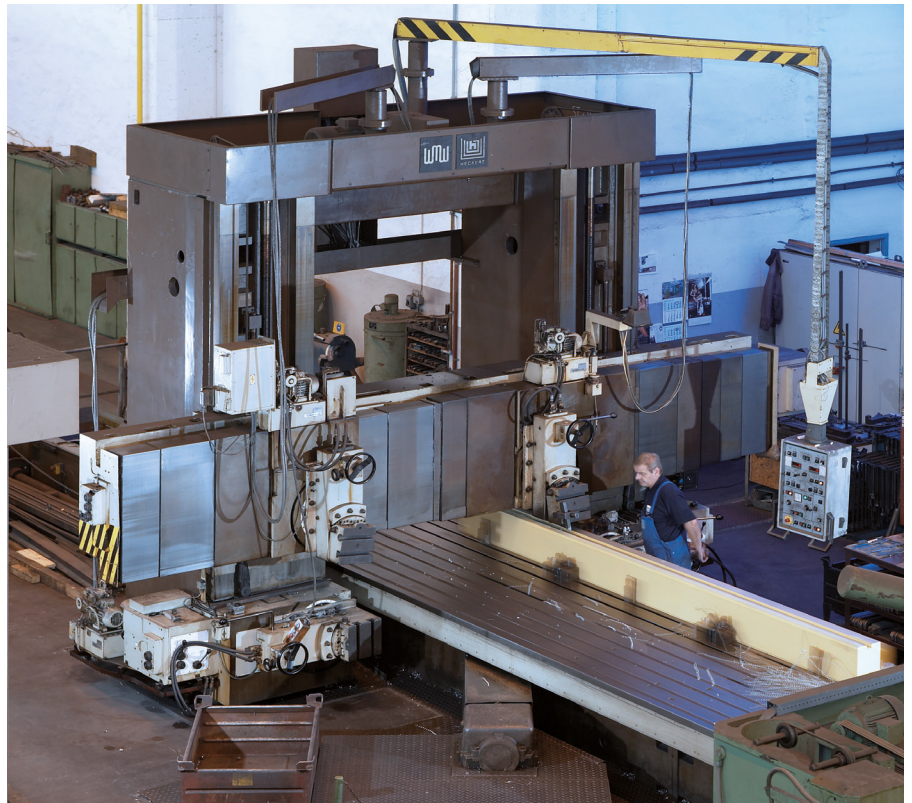
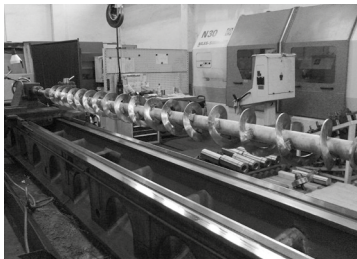
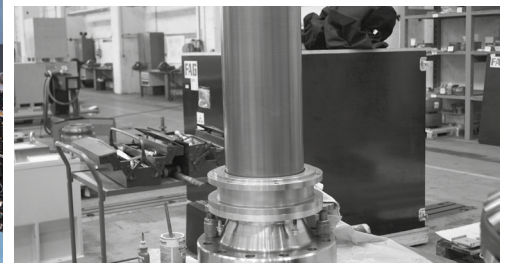
Construction and design calculations

Customized solutions

Spare parts deliveries

General repairs and overhauling

Installations/dismantling



Roll and shaft grinding

MACHINE PARAMETERS

Grinding diameter:

100 mm to 2,500 mm

Workpiece length:

up to 12,000 mm

Grinding lengths:

up to 10,500 mm

Workpiece weight:

up to 35,000 kg

up to 15,000 kg between centers

CROWNED GRINDING ATTACHMENT (CNC-controlled)

Max. curve banking (crowning):

10 mm in Ø

PRECISION DATA

Cylindricity, parallelism:

0.002 mm/m

Total parallelism:

0.005 mm

Concentricity:

0.003 mm

SURFACE QUALITIES

Chrome, chilled-iron:

Ra 0.1

Steel, hard rubber, plastics:

Ra 0.5

Metal sprayed surfaces:

Ra 1

MATERIALS

Steel

Stainless steel (1.4301; 1.4541; 1.4571 and more)

GG, GGG

Chilled casting

others on request

ROLL COVERINGS

Chromium

Sprayed metals; tungsten carbide and others

Rubber

Ceramics

Plastic

Copper

Teflon

Grooved rolls

others on request

Single colum vertical lathe	max. Ø at facing	2,200 mm
SKJQ 20 NC	slide stroke = max. turning length	1,000 mm
(drilling, turning, milling, grinding)	Ø face plate	2,000 mm
Drill grinding from Ø 400 mm,	max. workpiece height	1,450 mm
smaller on request	max. clamping Ø out	1,870 mm
	min. clamping Ø out	260 mm
	max. workpiece weight	20,000 kg
CNC-Lathe N30/2000	Ø max. over bed	630 mm
with driven tools	Ø max. over support	500 mm
(drilling, turning)	max. length	2,000 mm
	max. weight between centers	1,800 kg
	max. weight in drill chuck	250 kg
Roll turning machine WD 300 Le CNC	Ø max. over bed	1,800 mm
Driven tools possible	max. length	12,000 mm
(drilling, turning, milling)	Ø face plate	1,800 mm
	max. clamping Ø out	1,600 mm
	max. weight between centers	15,000 kg
Turning lathe DLZ 840 x 8.000	Ø max. over bed	840 mm
	Ø max. over support	530 mm
	max. length of bed	8,000 mm
	max. centre distance	7,200 mm
	max. weight between centers	6,000 kg
CNC-bed milling machine with multi-purpose head	along side stand adjustment X	max. 10,300/3,450 mm
BAZ CU 1000 L/6 Si 880 M	across Z	1,000 mm
	support vertical Y	1,200/2,500 mm
CNC-bed milling machine with multi-purpose head	max. workpiece weight	approx. 5,000 kg/m
BAZ CU 1000/4L Si 880	table size	1,250 x 12,000/6,000 mm
Horizontal drilling and milling machine	axial spindle adjustment	1,250 mm
BFP 16S/2	vertical spindle adjustment	2,900 mm
	cross stand adjustment	4,620 mm
	table size	1,800 x 2,000 mm
Horizontal drilling and milling machine	max. workpiece weight	2,500 kg
BFT 90	axial spindle adjustment	710 mm
	vertical spindle adjustment	1,000 mm
	table size BFT 80	1,000 x 1,120 mm
	table size BFT 90	1,250 x 1,400 mm
Console milling machine	max. workpiece height with head	150 mm
FU 400 x 1600	max. workpiece height without head	350 mm
	max. workpiece weight	1,500 kg
	table size	1,000 x 1,120 mm
	processing length	1,000 mm
	processing depth	350 mm
Doublestand planing machine	processing length	6,000 mm
HZF 2000 x 1600 x 6000	width	2,000 mm
	height	1,800 mm
	clamping area	1,600 x 6,000 mm
	max. workpiece weight	18,000 kg
Vertical shaper	max. diameter	2,200 mm
STSR 400	max. height (slot length)	400 mm
	max. workpiece height	500 mm
	table Ø	800 mm
Roll grinding machine	max. grinding diameter Ø	2,500 mm
P 30 WSB 450 CNC x 12000	max. Ø difference in cones	10 mm
The roll grinding machine has an additional	max. workpiece length with tailstock	10,500 mm
drive for „floating rolls“	max. roll weight with steady rest	20,000 kg
CNC-form grinding (crowning). 60° centering	max. weight between centers	15,000 kg
necessary. Accuracy data:	cylindricity, parallelism	0,002 mm/m
	total parallelism	0,005 mm
	concentricity	0,003 mm
	surface quality	min. RZ ≤1 µm, Ra 0.1 – 1 µm
Balancing machine	Ø	2,800 mm
H8 BU	Ø over drive system	2,000 mm
	max. workpiece weight	28,000 kg
	max. workpiece length M-M bearings	10,600 mm
	speeds	210 – 2,100 min-1
Gas cutting machine	oxy fuel flame-cutting	
Omnimat P 6000	working width	4,200 mm
	working length	approx. 11,600 mm
	cutting thickness	max. 140 mm
	plasma underwater cutting	
	working width	3,800 mm
	working length	10,000 mm
	cutting thickness	max. 45 mm
Hydraulic press-brake	pressing force	3,400 kN
EHP 340.52/43	with s = 8 mm working length	max. 5,200 mm
	between racks	max. 4,300 mm
3-roll sheet metal bending machine	max. sheet thickness by St 37	14 mm
UBBD 9 x 3150	max. sheet thickness by VA	9 mm
	max. plate width	3,150 mm
	smallest Ø for rounding	270 mm
Profil round bending machine	max. profile width	110 mm
	max. profile thickness	40 mm
	least to bending Ø	370 mm
Welding	E, WIG, MIG, MAG	
Surface treatment	glass bead blasting	
	priming, coating	

PAMA

paper machinery

PAMA paper machinery GmbH

- Founded in 1855 in Freiberg/Saxony as an iron foundry
- It makes a name for itself as a specialist machine manufacturer for the paper and pulp industry
- Today it is a modern, medium-sized company for the development and construction of customized machine components in large dimensions
- Balanced, flexible equipment with the latest CNC technology
- The professional team of design engineers and machine builders sets new standards in innovative achievements

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